AECOM Environment

Prepared for:
Consolidated Edison
Astoria, NY

Prepared by:
AECOM
New York, NY
60313314
June 2014

Interim Site Management Plan
Indoor and Ambient Air Sampling Report
2014 Sampling Activities

Former East 21st Street Works MGP Site

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Former East 21st Street Works MGP Site

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Prepared By Jennifer E. Pfeiffer, Task Manager

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Reviewed By Mark McCabe, Project Manager

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List of Acronyms

ASP	Analytical Service Protocol
CLP	Contract Laboratory Program
CMS	Chip Measurement System
DUSR	Data Usability Study Report
HVAC	Heating, Ventilation, and Air Conditioning
ISMP	Interim Site Management Plan
MGP	Manufactured Gas Plant
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	photoionization detector
USEPA	United States Environmental Protection Agencey
VOC	volatile organic compounds

List of Measurements

ppb	parts per billion
ppm	parts per million
$\mu g/m^3$	micrograms per cubic meter of air

1.0 Introduction

This report has been prepared by AECOM Environment (AECOM) on behalf of Consolidated Edison Company of New York, Inc. (Con Ed) to present the results of the indoor air sampling at building locations in the Peter Cooper Village property located in New York, New York.

The monitoring activities were conducted in accordance with the Interim Site Management Plan (ISMP) for Indoor Air Sampling (AECOM, 2009). The work plan was prepared as part of an ISMP to provide for environmental management at the site until a final remedy is selected and implemented. One requirement of the ISMP is to conduct annual indoor air monitoring to confirm that indoor air has not been impacted by Manufactured Gas Plant (MGP) residuals identified on the site. The methods and results from previous indoor air sampling have been reviewed by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) and they have determined that indoor air in the buildings has not been impacted by the MGP residuals.

The Peter Cooper property includes multiple apartment buildings (Buildings 1 through 21), some of which overlay the footprint of the East 21st Street Works former MGP. As detailed in the ISMP, samples were collected at locations in each of the buildings. The purpose of this report is to describe the monitoring activities, present and document the results from the sampling, and interpret their meaning. The remainder of this report is organized as follows:

- Section 2 describes monitoring activities, including the sampling locations and procedures.
- Section 3 presents the analytical laboratory results and their interpretation.
- Section 4 summarizes the findings and provides recommendations.
- Section 5 lists the references cited in this report.
- Appendices provide documentation of results and data quality information.

2.0 Sampling Activities

This section describes the activities undertaken to collect data and information for the purposes of this evaluation. The following discussion identifies the sampling locations and summarizes the activities associated with a preliminary site inspection and the collection of indoor air samples.

2.1 Sampling Locations

The sampling locations were consistent with those used in the 2012 sampling event. The sampling locations are illustrated on Figure 1.

2.2 Site Inspection

A site walk was held with AECOM and Peter Cooper Village/Stuyvesant Town Property Engineering Department staff on March 4, 2014 to review the sampling locations and ensure that, when in place, sampling equipment would not interfere with the progress of residents, maintenance staff walking through the buildings and subcontractors working in the building basements to repair damages caused by Superstorm Sandy on October 29, 2012.

NYSDOH survey questionnaire forms were completed for each location and are presented in Appendix A. Data included observations of the heating, ventilation, and air conditioning (HVAC) system, odors, and potential hydrocarbon sources. The inspection revealed that the HVAC systems of the buildings are a steam/ hot air circulation design. Apartments have individually installed air conditioning window units. The basements have windows that surround the footprint of the building at ground level and vents that appear to remain open year-round.

2.3 Indoor and Ambient Air Sampling

Sampling was conducted by AECOM field staff on March 10th, 11th, 12th, and 14th, 2014. A screening evaluation was conducted at each location to refine the actual positioning of the sampling point. A photoionization detector (PID) measuring in parts per billion (ppb) was used to evaluate levels of volatile organic constituents (VOC). A Dräger Chip Measurement System (CMS) was used to measure benzene at a range from 0.2-10 parts per million (ppm). Benzene was not detected at any of the sampling locations all results were <0.2ppm using the Dräger CMS. The results from the screening analysis are included on the field sampling forms presented in Appendix A. Documentation of weather conditions, wind speed, and wind direction are also provided on the forms.

A total of 60 indoor air samples and 8 ambient air samples were collected using laboratory certified, six-liter volume Summa canisters. The canisters were equipped with flow regulators to collect integrated samples over an 8-hour period at each location. A list of the locations and samples are provided in Table 1. Photographs of each location are provided in Appendix B.

The samples were submitted to Test America Laboratory via courier and received at the end of each day for analysis. The samples were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method TO-15 and the Con Ed MGP list of analytes. Four field duplicate samples were collected/analyzed for quality assurance/quality control.

3.0 Presentation of Results

This section presents summaries of the laboratory results for analyses performed on ambient and indoor air samples collected at the site during the sampling events in February 2012.

3.1 Site Observations

Conditions that included the presence of cigarette smoke, cleaning, chemical storage, maintenance work on steam lines within the buildings, maintenance equipment storage, and paint storage were noted during sampling and are documented on the field sample forms in Appendix A. Pertinent observations at specific sampling locations are noted in the following section.

3.2 Summary of Results

Volatile organic compounds were detected in all of the indoor air and ambient air samples at concentrations ranging from approximately 0.10J µg/m3 to 880 µg/m3. Copies of the analytical laboratory reports are provided in Appendix C.

The VOC concentrations in indoor air samples were evaluated to determine whether the constituent concentrations were consistent with "background" levels derived from National (USEPA) and New York State analyses of air samples from within typical (non-contaminated) residences [NYSDOH, 2003, EPA, 1992]. Discussions of the results for MGP-related and non-MGP-related constituents are provided below.

Table 2 provides a summary of results for those locations where one or more volatile organic constituents were detected. Constituent exceedances of the established background levels (90th percentile) were limited to the following locations:

- **Building #1**

  Stairwell B (PCV-IA1-B1-031114) Chloroform 2.4 µg/m^3, Methylene Chloride 34 µg/m^3

  Storage Room (PCV-IA2-B1-031114) Chloroform 1.7 µg/m^3

- **Building #3**

  Steam Room (PCV-IA1-B3-031114) Chloroform 1.5 µg/m^3

  Storage Room (PCV-IA2-B3-031114) 1,4-Dichlorobenzene 2.1 µg/m^3 ,Chloroform 4.8 µg/m^3

  Stairwell B (PCV-IA3-B3-031114) Chloroform 4.2 µg/m^3

- **Building #5**

  Storage Room (PCV-IA1-B5-031214) Ethylbenzene 20 µg/m^3, m&p-Xylene 81 µg/m^3, o-Xylene 23 µg/m^3, Styrene 4.0 µg/m^3, Toluene 420 µg/m^3, Acetone 630 J µg/m^3, Methylene Chloride 50 µg/m^3

Stairwell B (PCV-IA2-B5-031214) m&p-Xylene 22 µg/m^3, Styrene 40 µg/m^3, Toluene 65 µg/m^3, 2-Butanone 25 µg/m^3, 4-Methyl-2-Pentanone 13 µg/m^3, Methylene Chloride 120 µg/m^3, Trichloroethene 1.2 µg/m^3

Paint Room (PCV-IA3-B5-031214) Ethylbenzene 14 µg/m^3, m&p-Xylene 53 µg/m^3, o-Xylene 14 µg/m^3, Styrene 3.9 µg/m^3, Toluene 250 µg/m^3, 4-Methyl-2-Pentanone 2.6 µg/m^3, Acetone 510 µg/m^3, Methylene Chloride 59 µg/m^3

- **Building #6**

  Stairwell B (PCV-IA2-B6-031414) 4-Methyl-2-Pentanone 4.1 J µg/m^3

- **Building #7**

  Trunk Room (PCV-IA2-B7-031214) 4-Methyl-2-Pentanone 2.5 µg/m^3

- **Building #8**

  Storage Room (PCV-IA1-B8-031414) Ethylbenzene 110 µg/m^3, m&p-Xylene 450 J µg/m^3, o-Xylene 150 µg/m^3

  Storage Room (PCV-IA1FD-B8-031414) Ethylbenzene 130 µg/m^3, m&p-Xylene 580 J µg/m^3, o-Xylene 180 µg/m^3, 4-Methyl-2-Pentanone 3.1 J µg/m^3

  Stairwell B (PCV-IA2-B8031414) 4-Methyl-2-Pentanone 73 J µg/m^3

- **Building #9**

  Storage Room (PCV-IA1-B9-031414) Ethylbenzene 9.6 J µg/m^3, m&p-Xylene 52 J µg/m^3, o-Xylene 14 J µg/m^3

  Storage Room (PCV-IAIFD-B9-031414) Ethylbenzene 9.7 µg/m^3, m&p-Xylene 50 µg/m^3, o-Xylene 14 µg/m^3

  Stairwell B (PCV-IA2-B9-031414) Ethylbenzene 73 J µg/m^3, m&p-Xylene 300 J µg/m^3, o-Xylene 110 J µg/m^3

- **Building #10**

  Storage Room (PCV-IA2-B10-031014) Ethylbenzene 13 µg/m^3, m&p-Xylene 61 µg/m^3, o-Xylene 22 µg/m^3

  Stairwell B (PCV-IA3-B10-031014) Chloroform 1.5 µg/m^3

  Main Lobby (PCV-IALC-B10-031014) m&p-Xylene 19 µg/m^3

- **Building #11**

  Stairwell B (PCV-IA3-B11031214) 4-Methyle-2-Pentanone 2.3 µg/m^3, Chloroform 2.0 µg/m^3

- **Building #12**

  Storage Area (PCV-IA2-B12-031214) 4-Methyle-2-Pentanone 6.1 µg/m^3

- **Building #13**

  Crawlspace behind laundry room (PCV-IA1-B13-031114) 4-Methyl-2-Pentanone 22 µg/m^3, Chloroform 6.6 µg/m^3

  Trunk room crawlspace (PCV-IA2-B13-031114) 1,2,3-Trimethylbenzene 39 µg/m^3, 1,3,5-Trimethylbenzene 15 µg/m^3, m&p-Xylene 13 µg/m^3, Styrene 4.5 µg/m^3, Toluene 420 µg/m^3, Acetone 880 µg/m^3

  Stairwell B (PCV-IA3-B13-031114) Toluene 270 µg/m^3, Acetone 520 µg/m^3

- **Building #14**

  Storage Room (PCV-IA1-B14-031114) 1,4-Dichlorobenzene 2.2 µg/m^3

  Storage Room (PCV-IA1FD-B14-031114) 1,4-Dichlorobenzene 2.5 µg/m^3

  Stairwell B (PCV-IA2-B14-031114) 1,4-Dichlorobenzene 2.3 µg/m^3

- **Building #15**

  Storage Room (PCV-IA1-B15-031414) m&p-Xylene 24 J µg/m^3,o-Xylene 8.4 J µg/m^3

  Storage Room (PCV-IA2-B15-031414) Chloroform 2.7 µg/m^3

- **Building #16**

  Trunk Room (PCV-IA2-B16-031014) m&p-Xylene 16 µg/m^3

- **Building #17**

  Storage Room (PCV-IA2-B17-031414) Methylene Chloride 31 J µg/m^3

  Laundry Room (PCV-IA5-B17-031414) Chloroform 2.9 µg/m^3

- **Building #18**

  Locker Room (PCV-IA2-B18-031014) Styrene 7.8 µg/m^3, 4-Methyl-2-Pentanone 12 µg/m^3

- **Building #19**

  Trunk Room (PCV-IA2-B19-031014) 9.8 µg/m^3

- **Building #20**

  Storage Room (PCV-IA1-B20-031414) m&p-Xylene 22 µg/m^3, o-Xylene 8.7 µg/m^3

  Trunk Room (PCV-IA2-B20-031414) Ethylbenzene 8.0 µg/m^3, m&p-Xylene 35 µg/m^3, o-Xylene 13 µg/m^3, 4-Methyl-2-Pentanone 3.5 µg/m^3

  Stairwell B (PCV-IA3-B20-031414) 4-Methyl-2-Pentanone 25 µg/m^3

- **Building #21**

  Trunk Room (PCV-IA2-B21-031014) Hexane 45 µg/m^3

- **AMB-1**

  (PCV-AMB1-031014) 4-Methyl-2-Pentanone 18 µg/m^3

- **AMB-6**

  (PCV-AMB-6-031214) 4-Methyl-2-Pentanone 12 µg/m^3

- **AMB-8**

  (PCV-AMB-8-031414) 4-Methyl-2-Pentanone 4.0 µg/m^3

A comparison of these results with the 2012 data indicates that background levels were generally similar with distribution through a larger number of buildings, potentially due to maintenance/painting, etc. This is particularly true for 4-methyl-2-pentanone, or MIBK, which is a common solvent used for thinning lacquers and resins.

3.3 Quality Control

To meet the data quality objectives for this project, NYSDEC Analytical Service Protocols (ASP) were used with Category B deliverables [NYSDEC, 2000]. This analysis, which was completed by Test America, Inc. is currently listed with the New York State Department of Health Environmental Accreditation Program and has current Contract Laboratory Program (CLP) certification for all analyte categories. A Data Usability Study Report (DUSR) is provided in Appendix D.

4.0 Conclusions and Recommendations

The results demonstrate that indoor air concentrations of the principal VOCs associated with MGP residual, i.e. benzene and naphthalene are consistent with the background levels established by NYSDOH. Other compounds that can be associated with MGP residuals as well as paints and commercial cleaners, e.g ethylbenzene and xylenes,were present above background levels in 10 buildings. Several non-MGP constituents were detected at levels that were greater than established background levels in 16 of the buildings sampled, at a total of 27 locations (stairwells, trunk rooms, storage/bike rooms, and steam rooms) including 3 ambient locations. These compounds, chlorinated constituents and acetone are frequently associated with commercial cleaning products. The results of this sampling event were generally consistent with previous sampling conducted at the site in terms of the constituents detected and their concentrations.

5.0 References

AECOM, 2009. Interim Remedial Measure Work Plan for Indoor Air Sampling – East 21st Street Works Former MGP.

AECOM, 2009. Interim Remedial Measure Work Plan Indoor Air and Ambient Air Sample Report – East 21st Street Works Former MGP, draft June 2009.

NYSDEC, 2000. NYSDEC Analytical Services Protocol, 1995, revised June, 2000.

NYSDOH, 2003. Background Indoor/Outdoor Air Levels of Volatile Organic Compounds in Homes Sampled by the New York State Department of Health, 1989-1996, New York State Department of Health, Bureau of Toxic Substance Assessment, Interim Draft, January 2003.

RETEC, 2004. E 21st Street Works Site Comprehensive Report of Evaluation of Indoor Air and Soil Gas Sampling, November 10, 2004.

USEPA, 1992. Assessing Potential Indoor Air Impacts for Superfund Sites. United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. September 1992.

Tables

Table 1
Indoor and Ambient Air Sample Locations
E. 21st Street Works Former MGP Site
New York, NY

AECOM

Address	Building Number	Location ID	Sample Identification	Sample Location	Sample Date
		PCV-IA1 B1	PCV-IA1-B1-031114	Stairwell B	3/11/2014
350 1st Avenue	Building 1	PCV-IA1 B1	PCV-IA2-B1-031114	Storage Room	3/11/2014
		PCV-IA1 B2	PCV-IA1-B2-031114	Storage Room	3/11/2014
360 1st Avenue	Building 2	PCV-IA2 B2	PCV-IA2-B2-031114	Stairwell B	3/11/2014
		PCV-IA1 B3	PCV-IA1-B3-031114	Steam room	3/11/2014
		PCV-IA2 B3	PCV-IA2-B3-031114	Storage room/ bike room	3/11/2014
431 East 20th Street	Building 3	PCV-IA3 B3	PCV-IA3-B3-031114	Stairwell B	3/11/2014
		PCV-IA1 B4	PCV-IA1-B4-031114	Trunk room	3/11/2014
2 Peter Cooper Road	Building 4	PCV-IA2 B4	PCV-IA2-B4-031414	Stariwell B	3/14/2014
		PCV-IA1 B5	PCV-IA1-B5-031214	Storage Room	3/12/2014
		PCV-IA2 B5	PCV-IA2-B5-031214	Stairwell B	3/12/2014
441 East 20th Street	Building 5	PCVI-IAPC B5	PCV-IAPC-B5-031214	Paint room	3/12/2014
		PCV-IA1 B6	PCV-IA1-B6-031414	Storage Room	3/14/2014
4 Peter Cooper Road	Building 6	PCV-IA2 B6	PCV-IA2-B6-031414	Stairwell B	3/14/2014
		PCV-IA1 B7	PCV-IA1-B7-031414	Steam room	3/14/2014
		PCV-IA2 B7	PCV-IA2-B7-031214	Trunk room	3/12/2014
511 East 20th Street	Building 7	PCV-IA3 B7	PCV-IA3-B7-031214	Stairwell B	3/12/2014
		PCV-IA1 B8	PCV-IA1-B8-031414/PCV-IA1FD-B8-031414	Storage Room with Sump in hallway before entrance	3/14/2014
6 Peter Cooper Road	Building 8	PCV-IA2 B8	PCV-IA2-B8-031414	Stairwell B	3/14/2014
		PCV-IA1 B9	PCV-IA1-B9-031414/PCV-IA1FD-B9-031414	Storage/bike room	3/14/2014
531 East 20th Street	Building 9	PCV-IA2 B9	PCV-IA2-B9-031414	Stairwell B	3/14/2014
		PCV-IA1 B10	PCV-IA1-B10-031014	Storage room with with windows stored in it	3/10/2014
		PCV-IA2 B10	PCV-IA2-B10-031014	Storage room/bike room	3/10/2014
		PCV-IA3 B10	PCV-IA3-B10-031014	Stairwell B	3/10/2014
8 Peter Cooper Road	Building 10	PCV-IALC B10	PCV-IALC-B10-031014**	Main lobby	3/10/2014
		PCV-IA1 B11	PCV-IA1-B11-031214	Storage room/bike room	3/12/2014
		PCV-IA2 B11	PCV-IA2-B11-031214	Steam room	3/12/2014
541 East 20th Street	Building 11	PCV-IA3 B11	PCV-IA3-B11-031214	Stairwell B	3/12/2014
		PCV-IA1 B12	PCV-IA1-B12-031214	Storage area	3/12/2014
		PCV-IA2 B12	PCV-IA2-B12-031214	Storage area/bike room	3/12/2014
601 East 20th Street	Building 12	PCV-IA3 B12	PCV-IA3-B12-031214	Stairwell B	3/12/2014
		PCV-IA1 B13	PCV-IA1-B13-031114	Crawl space behind laundry room	3/11/2014
		PCV-IA2 B13	PCV-IA2-B13-031114	Trunk room	3/11/2014
390 1st Avenue	Building 13	PCV-IA3 B13	PCV-IA3-B13-031114	Stairwell B	3/11/2014
		PCV-IA1 B14	PCV-IA1-B14-031114/PCV-IA1FD-B14-031114	Storage room/bike room	3/11/2014
1 Peter Cooper Road	Building 14	PCV-IA2 B14	PCV-IA2-B14-031114	Stairwell B	3/11/2014
		PCV-IA1 B15	PCV-IA1-B15-031414	Storage room with maintenance equipment and holiday decorations	3/14/2014
		PCV-IA2 B15	PCV-IA2-B15-031414	Storage room/bike room	3/14/2014
420 East 23rd Street	Building 15	PCV-IA3 B15	PCV-IA3-B15-031414	Stairwell B	3/14/2014
		PCV-IA1 B16	PCV-IA1-B16-031014	Storage room/ bike room	3/10/2014
		PCV-IA2 B16	PCV-IA2-B16-031014	Trunk room	3/10/2014
3 Peter Cooper Road	Building 16	PCV-IA3 B16	PCV-IA3-B16-031014	Stairwell B	3/10/2014
		PCV-IA1 B17	PCV-IA1-B17-031414	Steam room	3/14/2014
		PCV-IA2 B17	PCV-IA2-B17-031414	Storage room	3/14/2014
		PCV-IA3 B17	PCV-IA3-B17-031414/PCV-IA3FD-B17-031414	Stairwell B	3/14/2014
		PCV-IA4 B17	PCV-IA4-B17-031414	Lobby near elevator in basement	3/14/2014
440 East 23rd Street	Building 17	PCV-IA5 B17	PCV-IA5-B17-031414	Laundry room	3/14/2014
		PCV-IA1 B18	PCV-IA1-B18-031014	Storage/ bike room	3/10/2014
		PCV-IA2 B18	PCV-IA2-B18-031014	Locker room	3/10/2014
		PCV-IA3 B18	PCV-IA3-B18-031014	Stairwell B	3/10/2014
5 Peter Cooper Road	Building 18	PCV-IATC-B18	PCV-IATC-B18-031014	Trunk room	3/10/2014
		PCV-IA1 B19	PCV-IA1-B19-031014	Maintenance storage room	3/10/2014
		PCV-IA2 B19	PCV-IA2-B19-031014	Trunk room	3/10/2014
510 East 23rd Street	Building 19	PCV-IA3 B19	PCV-IA3-B19-031014	Stairwell B	3/10/2014
		PCV-IA1 B20	PCV-IA1-B20-031414	Storage room/bike room	3/14/2014
		PCV-IA2 B20	PCV-IA2-B20-031414	Trunk room	3/14/2014
7 Peter Cooper Road	Building 20	PCV-IA3 B20	PCV-IA3-B20-031414	Stairwell B	3/14/2014
		PCV-IA1 B21	PCV-IA1-B21-031014	Storage room	3/10/2014
		PCV-IA2 B21	PCV-IA2-B21-031014	Trunk room	3/10/2014
530 East 23rd Street	Building 21	PCV-IA3 B21	PCV-IA3-B21-031014	Stairwell B	3/10/2014
510 East 23rd Street	Ambient - Building 19	PCV-AMB1	PCV-AMB1-031014	Outside Building 19	3/10/2014
8 Peter Cooper Road	Ambient - Building 10	PCV-AMB2	PCV-AMB-2-031014	Outside Building 10	3/10/2014
390 1st Avenue	Ambient - Building 13	PCV-AMB3	PCV-AMB-3-031114	Outside Building 13	3/11/2014
2 Peter Cooper Road	Ambient - Building 4	PCV-AMB4	PCV-AMB4-0311114	Outside Building 4	3/11/2014
441 East 20th Street	Ambient - Building 5	PCV-AMB5	PCV-AMB-5-031214	Outside Building 5	3/12/2014
601 East 20th Street	Ambient - Building 12	PCV-AMB6	PCV-AMB-6-031214	Outside Building 12	3/12/2014
420 East 23rd Street	Ambient - Building 15	PCV-AMB7	PCV-AMB7-031414	Outside Building 15	3/14/2014
7 Peter Cooper Road	Ambient - Building 20	PCV-AMB8	PCV-AMB-8-031414	Outside Building 20	3/14/2014

**All samples collected were in the basement unless otherwise noted.

PCV - Peter Cooper Village
AMB - Ambient
TC - Trunk room characterization
LC - Lobby characterization
PC - Paint room characterization
FD - Field Duplicate
IA - Indoor Air
B# - Building #

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location / Type of Sample / Sampling Date / Sample ID / Laboratory ID	CAS No.	NYSDOH Background Indoor Air Values[3] 75th Percentile	NYSDOH Background Indoor Air Values[3] 90th Percentile	AMB-1 - Building 19 Outdoor Air 3/10/2014 PCV-AMB1-031014 14010371	AMB-2 - Building 10 Outdoor Air 3/10/2014 PCV-AMB-2-031014 14010371	AMB-3 - Building 13 Outdoor Air 3/11/2014 PCV-AMB-3-031114 14010411	AMB-4 - Building 4 Outdoor Air 3/11/2014 PCV-AMB4-031114 14010411	AMB-5 - Building 5 Outdoor Air 3/12/2014 PCV-AMB-5-031214 14010511	AMB-6 - Building 12 Outdoor Air 3/12/2014 PCV-AMB-6-031214 14010511	AMB-7 - Building 15 Outdoor Air 3/14/2014 PCV-AMB7-031414 14010601	AMB-8 - Building 20 Outdoor Air 3/14/2014 PCV-AMB-8-031414 14010601	Building 1 - 350 1st Avenue Indoor Air 3/11/2014 PCV-IA1-B1-031114 14010411	Building 1 - 350 1st Avenue Indoor Air 3/11/2014 PCV-IA2-B1-031114 14010411
Compound (µg/m³)													
Possibly MGP Related or Other Sources [1]													
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	< 0.31 U	< 0.31 U	**0.34 J**	< 0.31 U	< 0.31 U	**0.31 J**	< 0.31 U	< 0.31 U	**0.44 J**	**0.42 J**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.24 J**	**0.22 J**	**0.23 J**	< 0.18 U	**0.42 J**	**0.53 J**	**0.20 J**	**0.31 J**	**0.37 J**	**0.37 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	**1.0**	< 0.70 UJ	< 0.70 U	< 0.70 U	< 0.70 U
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
Benzene	71-43-2	5.9	15	**0.71**	**0.68**	**0.70**	**0.53 J**	**0.86**	**1.0**	**0.70**	**0.80**	**1.1**	**1.0**
Carbon disulfide	75-15-0	NL	NL	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	**0.15 J**	**0.46 J**	< 0.097 U	< 0.097 U	**0.13 J**	**0.25 J**
Cyclohexane	110-82-7	2.6	8.1	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.21 J**	**0.27 J**	**0.27 J**	< 0.14 U	**0.37 J**	**0.30 J**
Ethylbenzene	100-41-4	2.8	7.4	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	**0.38 J**	< 0.30 U	**0.31 J**	**0.40 J**	**0.43 J**
Heptane	142-82-5	7.6	19	**0.25 J**	**0.20 J**	**0.23 J**	**0.20 J**	**0.39 J**	**0.43 J**	**0.46 J**	**0.37 J**	**0.45 J**	**0.44 J**
Hexane	110-54-3	6	18	**0.69 J**	**0.45 J**	**0.53 J**	**0.39 J**	**0.70 J**	**2.4**	**0.83 J**	**0.55 J**	**0.82 J**	**0.84 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**3.2**	**1.8**	**1.9**	**1.8**	**3.2**	**6.2**	**2.6**	**1.6**	**5.0**	**7.1**
m&p-Xylene	1330-20-7-m,p	4.6	12	< 0.52 U	< 0.52 U	**0.77 J**	< 0.52 U	**0.98**	**1.4**	< 0.52 U	**1.0**	**1.1**	**1.1**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	< 0.26 U	< 0.26 U	**0.29 J**	< 0.26 U	**0.33 J**	**0.45 J**	< 0.26 U	**0.40 J**	**0.45 J**	**0.45 J**
Styrene	100-42-5	0.64	1.3	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**0.97**	**0.72 J**	**2.2**	**0.77**	**2.3**	**4.1**	**1.2**	**1.7**	**1.6**	**1.6**
Not MGP Related [2]													
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	**0.17 J**
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.59 J**	**0.51 J**	**0.57 J**	**0.56 J**	**0.48 J**	**0.56 J**	**0.66 J**	**0.50 J**	**0.63 J**	**0.59 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	**0.51 J**	< 0.38 U	< 0.38 U	< 0.38 U	**0.47 J**
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**1.2 J**	**0.61 J**	**1.8 J**	**1.4 J**	**0.94 J**	**0.94 J**	**0.72 J**	**0.87 J**	**2.2 J**	**1.9 J**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**3.0 J**	**2.2 J**	**3.0 J**	**3.5 J**	**2.8 J**	**2.6 J**	**2.3 J**	**1.4 J**	**33**	**8.0**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**18**	**0.25 J**	**0.44 J**	**0.28 J**	**0.22 J**	**12**	**0.39 J**	**4.0**	**0.28 J**	**1.2 J**
Acetone	67-64-1	52	110	**12**	**4.4 J**	**17**	**13**	**7.1 J**	**8.5 J**	**7.2 J**	**4.7 J**	**16**	**14**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	**0.23 J**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Carbon tetrachloride	56-23-5	0.59	0.81	**0.47 J**	**0.39 J**	**0.40 J**	**0.44 J**	**0.43 J**	**0.42 J**	**0.56 J**	**0.40 J**	**0.52 J**	**0.56 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	**2.4**	**1.7**
Chloromethane	74-87-3	1.8	3.3	**1.3**	**1.0**	**0.89 J**	**0.97 J**	**0.98 J**	**1.4**	**1.2**	**1.1**	**1.3**	**1.3**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.6**	**2.2**	**2.3**	**2.5**	**2.4**	**2.6**	**2.5**	**2.0**	**2.5**	**2.5**
Ethanol	64-17-5	540	1400	**20**	**22**	**26**	**29**	**28**	**29**	**19**	**18**	**150**	**160**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**6.7**	**1.8**	**1.4 J**	**1.2 J**	**2.2**	**15**	**3.0**	**1.7**	**34**	**2.6**
Propylene	115-07-1	NL	NL	**2.3 J**	**2.0 J**	**2.2 J**	< 0.13 U	**2.1 J**	**2.2 J**	**1.7 J**	**1.2 J**	**3.2 J**	< 0.13 U
Tetrachloroethene	127-18-4	1.1	2.9	< 0.27 U	**0.35 J**	**0.52 J**	**0.28 J**	**0.80 J**	**0.69 J**	**0.46 J**	**0.34 J**	**0.99 J**	**0.83 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.19 U	< 0.19 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.7**	**1.3**	**1.5 J**	**1.7 J**	**1.4**	**2.1 J**	**1.8**	**1.1 J**	**1.8 J**	**1.8 J**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location	CAS No.	NYSDOH Background Indoor Air Values[3]		Building 2 - 360 1st Avenue		Building 3 - 431 East 20th Street			Building 4 - 2 Peter Cooper Road		Building 5 - 441 East 20th Street		
Type of Sample				Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date				3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/14/2014	3/12/2014	3/12/2014	3/12/2014
Sample ID		75th Percentile	90th Percentile	PCV-IA1-B2-031114	PCV-IA2-B2-031114	PCV-IA1-B3-031114	PCV-IA2-B3-031114	PCV-IA3-B3-031114	PCV-IA1-B4-031114	PCV-IA2-B4-031414	PCV-IA1-B5-031214	PCV-IAPC-B5-031214	PCV-IA2-B5-031214
Laboratory ID				14010411	14010411	14010411	14010411	14010411	14010411	14010601	14010631	14010631	14010631
Compound (µg/m³)													
Possibly MGP Related or Other Sources [1]													
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	**2.5**	**2.3**	**1.7**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	**0.66 J**	**0.62 J**	**0.44 J**
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.20 J**	**0.19 J**	**0.25 J**	**0.22 J**	**0.25 J**	**0.29 J**	< 0.18 U	**0.68 J**	**0.67 J**	**0.75 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	**0.94**	**0.85**	**1.1**
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	**1.5 J**	**1.1 J**	**0.91 J**
Benzene	71-43-2	5.9	15	**0.59 J**	**0.61 J**	**0.74**	**0.69**	**0.74**	**0.71**	**0.56 J**	**1.3**	**1.2**	**1.2**
Carbon disulfide	75-15-0	NL	NL	< 0.097 U	**0.22 J**	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	**0.39 J**	**0.17 J**	**0.74 J**
Cyclohexane	110-82-7	2.6	8.1	< 0.14 U	< 0.14 U	**0.17 J**	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.42 J**	**0.42 J**	**0.63 J**
Ethylbenzene	100-41-4	2.8	7.4	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	**0.32 J**	< 0.30 U	**20**	**5.5**	**14**
Heptane	142-82-5	7.6	19	< 0.19 U	**0.22 J**	**0.23 J**	**0.24 J**	**0.60 J**	**0.29 J**	< 0.19 U	**1.6 J**	**5.0**	**1.8 J**
Hexane	110-54-3	6	18	**0.45 J**	**0.48 J**	**0.53 J**	**0.46 J**	**1.2 J**	**2.1**	**0.42 J**	**1.2 J**	**1.0 J**	**1.3 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**2.2**	**3.4**	**2.3**	**2.6**	**2.6**	**4.0**	**2.5**	**8.5**	**9.4**	**9.4**
m&p-Xylene	1330-20-7-m,p	4.6	12	< 0.52 U	< 0.52 U	**0.58 J**	**0.55 J**	**0.56 J**	**1.3**	**1.1**	**81**	**22**	**53**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U	**2.3 J**	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	**0.54 J**	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	**0.42 J**	**0.44 J**	**23**	**6.9**	**14**
Styrene	100-42-5	0.64	1.3	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	**1.1**	**4.0**	**40**	**3.9**
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**0.95**	**0.95**	**1.0**	**0.94**	**1.0**	**2.5**	**0.97**	**420**	**65**	**250**
Not MGP Related [2]													
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.50 J**	**0.53 J**	**0.58 J**	**0.56 J**	**0.58 J**	**0.55 J**	**0.53 J**	**0.57 J**	**0.51 J**	**0.51 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.16 J**	< 0.14 U
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	**2.1**	**0.47 J**	< 0.38 U	< 0.38 U	< 0.38 U	**0.57 J**	< 0.38 U
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**0.79 J**	**0.76 J**	**0.84 J**	**1.3 J**	**1.1 J**	**0.81 J**	< 0.59 U	**9.2**	**25**	**9.8**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**4.9**	**5.8**	**4.4 J**	**4.1 J**	**4.1 J**	**6.4**	**57**	**10**	**21**	**11**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**0.37 J**	< 0.18 U	**0.23 J**	< 0.18 U	**0.21 J**	< 0.18 U	**1.2 J**	**1.8 J**	**13**	**2.6**
Acetone	67-64-1	52	110	**8.0 J**	**8.4 J**	**7.8 J**	**13**	**11 J**	**8.6 J**	**5.5 J**	**630 J**	**23 J**	**510**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	**0.15 J**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	**0.16 J**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Carbon tetrachloride	56-23-5	0.59	0.81	**0.41 J**	**0.43 J**	**0.51 J**	**0.51 J**	**0.51 J**	**0.45 J**	**0.37 J**	**0.46 J**	**0.45 J**	**0.43 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	**0.19 J**	**0.25 J**	**1.5**	**4.8**	**4.2**	**0.19 J**	**0.31 J**	**0.26 J**	**0.31 J**	**0.43 J**
Chloromethane	74-87-3	1.8	3.3	**1.1**	**1.3**	**1.1**	**1.2**	**1.3**	**1.2**	**1.1**	**1.2**	**1.1**	**1.1**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.3**	**2.4**	**2.5**	**2.5**	**2.6**	**2.4**	**2.3**	**2.2**	**2.2**	**2.1**
Ethanol	64-17-5	540	1400	**59**	**41**	**66**	**42**	**61**	**60**	**72**	**380**	**1400**	**370**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**1.4 J**	**1.2 J**	**2.5**	**2.1**	**3.7**	**16**	**1.8**	**50**	**120**	**59**
Propylene	115-07-1	NL	NL	**2.0 J**	**2.0 J**	< 0.13 U	**2.1 J**	**2.7 J**	**2.2 J**	< 0.13 U	**53 J**	**1.9 J**	< 0.13 U
Tetrachloroethene	127-18-4	1.1	2.9	**0.68 J**	**1.3 J**	**0.77 J**	**0.68 J**	< 1.4 U	**0.45 J**	**0.35 J**	**1.0 J**	**1.0 J**	**0.80 J**
Tetrahydrofuran	109-99-9	0.35	3.3	**0.55 J**	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	**0.55 J**
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	**0.31 J**	**1.2**	**0.33 J**
Trichlorofluoromethane	75-69-4	5.4	17	**1.5 J**	**1.6 J**	**1.7 J**	**1.8 J**	**2.0 J**	**1.9 J**	**1.5 J**	**1.2**	**1.2**	**1.2**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location		NYSDOH Background Indoor Air Values[3]		Building 6 - 4 Peter Cooper Road		Building 7 - 511 East 20th Street			Building 8 - 6 Peter Cooper Road			Building 9 - 531 East 20th Street		
Type of Sample	CAS No.			Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date				3/14/2014	3/14/2014	3/14/2014	3/12/2014	3/12/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014
Sample ID		75th Percentile	90th Percentile	PCV-IA1-B6-031414	PCV-IA2-B6-031414	PCV-IA1-B7-031414	PCV-IA2-B7-031214	PCV-IA3-B7-031214	PCV-IA1FD-B8-031414	PCV-IA1-B8-031414	PCV-IA2-B8-031414	PCV-IA1FD-B9-031414	PCV-IA1-B9-031414	PCV-IA2-B9-031414
Laboratory ID				14010601	14010601	14010601	14010631	14010631	14010601	14010601	14010601	14010601	14010601	14010601
Compound (µg/m³)														
Possibly MGP Related or Other Sources [1]														
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	< 0.31 U	**0.37 J**	< 0.31 U	**0.75 J**	**0.81 J**	**0.34 J**	**0.37 J**	< 0.31 U	**0.45 J**	**0.37 J**	**0.62 J**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.32 UJ
2,2,4-Trimethylpentane	540-84-1	NL	NL	< 0.18 U	< 0.18 U	**0.21 J**	**0.68 J**	**0.63 J**	< 0.18 U	< 0.18 U	< 0.18 U	**0.93 J**	**0.81 J**	**0.41 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 UJ	< 0.82 UJ
2-Methylpentane	107-83-5	NL	NL	< 0.70 UJ	< 0.70 UJ	< 0.70 U	**0.88**	**0.83**	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	< 0.32 U	< 0.32 U	**0.78 J**	**0.62 J**	**0.35 J**	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.32 UJ
Benzene	71-43-2	5.9	15	**0.62 J**	**0.50 J**	**0.70**	**1.2**	**1.1**	**0.79**	**0.75**	**0.60 J**	**0.62 J**	< 0.18 UJ	**0.68 J**
Carbon disulfide	75-15-0	NL	NL	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 UJ	< 0.097 UJ
Cyclohexane	110-82-7	2.6	8.1	< 0.14 U	< 0.14 U	< 0.14 U	**0.25 J**	**0.23 J**	< 0.14 U	< 0.14 U	< 0.14 U	**0.15 J**	**0.18 J**	< 0.14 UJ
Ethylbenzene	100-41-4	2.8	7.4	**0.44 J**	**0.97**	< 0.30 U	**1.7**	**1.0**	**130**	**110**	**2.3**	**9.7**	**9.6 J**	**73 J**
Heptane	142-82-5	7.6	19	**0.20 J**	**0.26 J**	**0.32 J**	**0.79 J**	**0.60 J**	< 0.19 U	< 0.19 U	**0.20 J**	**0.26 J**	**0.30 J**	**0.20 J**
Hexane	110-54-3	6	18	**0.37 J**	**0.37 J**	**0.58 J**	**1.0 J**	**1.3 J**	**0.55 J**	**0.36 J**	**0.33 J**	**0.33 J**	**0.39 J**	**0.30 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 UJ	< 0.97 UJ
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 UJ	< 1.9 UJ
Isopentane	78-78-4	NL	NL	**1.8**	**1.8**	**2.4**	**3.2**	**2.7**	**2.9**	**2.0**	**2.5**	**2.3**	**2.4 J**	**2.3 J**
m&p-Xylene	1330-20-7-m,p	4.6	12	**2.4**	**5.7**	< 0.52 U	**7.3**	**4.1**	**580 J**	**450 J**	**12**	**50**	**52 J**	**300 J**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 UJ	< 0.47 UJ
o-Xylene	95-47-6	3.1	7.6	**0.85**	**1.9**	< 0.26 U	**3.0**	**1.6**	**180**	**150**	**3.3**	**14**	**14 J**	**110 J**
Styrene	100-42-5	0.64	1.3	< 0.25 U	< 0.25 U	< 0.25 U	**0.61 J**	**0.31 J**	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 UJ
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 UJ
Toluene	108-88-3	24.8	58	**1.0**	**0.93**	**1.1**	**5.3**	**4.2**	**2.9**	**2.4**	**0.83**	**17 J**	**12 J**	**15 J**
Not MGP Related [2]														
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 UJ	< 0.16 UJ
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.59 J**	**0.52 J**	**0.54 J**	**0.50 J**	**0.55 J**	**0.52 J**	**0.59 J**	**0.58 J**	**0.45 J**	**0.57 J**	**0.54 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 UJ	< 0.11 UJ
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 UJ	< 0.13 UJ
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 UJ	< 0.73 UJ
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 UJ
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 UJ
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ
1,3-Butadiene	106-99-0	NL	NL	**0.18 J**	**0.14 J**	< 0.14 U	< 0.14 U	< 0.14 U	**0.20 J**	**0.15 J**	< 0.14 U	**0.37 J**	**0.41 J**	**0.29 J**
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 UJ	< 0.39 UJ
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 UJ	< 0.38 UJ
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ
2-Butanone	78-93-3	7.3	16	< 0.59 U	**0.72 J**	**0.70 J**	**2.2 J**	**1.8 J**	**0.68 J**	< 0.59 U	< 0.59 U	< 0.59 U	< 0.59 UJ	< 0.59 UJ
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ
2-Propanol	67-63-0	NL	NL	**1.2 J**	**2.0 J**	**1.6 J**	**5.8**	**3.5 J**	**2.2 J**	**1.9 J**	**2.0 J**	**13**	**14 J**	**3.6 J**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**0.29 J**	**4.1 J**	**0.88 J**	**2.5**	**0.86 J**	**3.1 J**	**0.44 J**	**73 J**	< 0.18 UJ	**0.19 J**	< 0.18 UJ
Acetone	67-64-1	52	110	**3.7 J**	**8.1 J**	**6.7 J**	**11 J**	**8.9 J**	**9.1 J**	**6.6 J**	**14**	**7.9 J**	**11 J**	**5.8 J**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 UJ	< 0.40 UJ
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 UJ
Bromomethane	74-83-9	0.25	0.6	**0.16 J**	**0.15 J**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 UJ	**0.19 J**
Carbon tetrachloride	56-23-5	0.59	0.81	**0.50 J**	**0.42 J**	**0.42 J**	**0.43 J**	**0.41 J**	**0.46 J**	**0.49 J**	**0.51 J**	**0.43 J**	**0.50 J**	**0.51 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 UJ	< 0.23 UJ
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 UJ	< 0.092 UJ
Chloroform	67-66-3	0.54	1.4	< 0.19 U	**0.37 J**	< 0.19 U	**0.78 J**	**0.27 J**	< 0.19 U	< 0.19 U	< 0.19 U	**0.31 J**	**0.35 J**	**0.58 J**
Chloromethane	74-87-3	1.8	3.3	**0.95 J**	**0.94 J**	**1.3**	**1.2**	**1.2**	**1.2**	**1.3**	**0.81 J**	**1.0 J**	< 0.33 UJ	**1.2 J**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 UJ
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 UJ	< 0.36 UJ
Dichlorodifluoromethane	75-71-8	4.1	15	**2.3**	**2.2**	**2.3**	**2.2**	**2.2**	**2.5**	**2.5**	**2.5**	**2.1**	**2.4 J**	**2.7 J**
Ethanol	64-17-5	540	1400	**13**	**15**	**18**	**99**	**44**	**40**	**32**	**33**	**410**	**520 J**	**86 J**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 UJ
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 UJ	< 0.83 UJ
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 UJ	< 0.61 UJ
Methylene chloride	75-09-2	6.6	22	**1.7 J**	**1.7 J**	**1.8**	**13**	**2.8**	**2.7**	**1.8**	**1.6 J**	**3.4**	**4.3 J**	**2.0 J**
Propylene	115-07-1	NL	NL	**1.2 J**	**1.3 J**	< 0.13 U	**1.7 J**	**1.8 J**	**1.6 J**	**1.4 J**	**1.5 J**	**2.3 J**	**2.4 J**	**1.9 J**
Tetrachloroethene	127-18-4	1.1	2.9	**0.33 J**	**0.27 J**	**0.31 J**	**1.5**	**0.97 J**	< 0.27 U	**0.31 J**	**0.31 J**	**0.35 J**	**0.32 J**	**0.35 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 UJ	< 0.19 UJ	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 UJ	< 0.20 UJ
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 UJ
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	**0.22 J**	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ
Trichlorofluoromethane	75-69-4	5.4	17	**1.6**	**1.4**	**1.5 J**	**1.2**	**1.2**	**1.5**	**1.5**	**1.6**	**1.3**	**1.6 J**	**1.6 J**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 UJ	< 0.18 UJ

Notes:

All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location				Building 10 - 8 Peter Cooper Road				Building 11 - 541 East 20th Street			Building 12 - 601 East 20th Street		
Type of Sample		NYSDOH Background Indoor Air Values[3]		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date	CAS No.			3/10/2014	3/10/2014	3/10/2014	3/10/2014	3/12/2014	3/12/2014	3/12/2014	3/12/2014	3/12/2014	3/12/2014
Sample ID		75th Percentile	90th Percentile	PCV-IA1-B10-031014	PCV-IA2-B10-031014	PCV-IA3-B10-031014	PCV-IALC-B10-031014	PCV-IA1-B11-031214	PCV-IA2-B11-031214	PCV-IA3-B11-031214	PCV-IA1-B12-031214	PCV-IA2-B12-031214	PCV-IA3-B12-031214
Laboratory ID				14010371	14010371	14010371	14010371	14010631	14010631	14010631	14010511	14010511	14010511
Compound (µg/m³)													
Possibly MGP Related or Other Sources [1]													
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	**1.9**	**2.4**	**5.1**	**1.9**	**0.79 J**	**0.64 J**	**1.0**	**0.73 J**	**0.68 J**	**0.52 J**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	**0.45 J**	**0.50 J**	**1.0**	**0.45 J**	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.24 J**	**0.21 J**	**0.34 J**	**0.20 J**	**0.77 J**	**0.72 J**	**0.77 J**	**0.64 J**	**0.69 J**	**0.53 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	**0.93**
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	< 0.70 U	**0.74**	< 0.70 U	**1.4**	**1.0**	**1.2**	**1.1**	**1.3**	**0.89**
4-Ethyltoluene	622-96-8	NL	NL	**0.51 J**	**0.95 J**	**1.3 J**	**0.63 J**	**0.85 J**	**0.49 J**	**1.5 J**	**0.45 J**	**0.51 J**	< 0.32 U
Benzene	71-43-2	5.9	15	**0.75**	**0.77**	**1.6**	**0.69**	**1.2**	**1.2**	**1.3**	**1.3**	**1.4**	**1.1**
Carbon disulfide	75-15-0	NL	NL	**0.14 J**	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	**0.13 J**	**0.12 J**	< 0.097 U	< 0.097 U	**0.10 J**
Cyclohexane	110-82-7	2.6	8.1	**0.18 J**	**0.23 J**	**0.48 J**	**0.21 J**	**0.43 J**	**0.31 J**	**0.36 J**	**0.54 J**	**0.50 J**	**0.44 J**
Ethylbenzene	100-41-4	2.8	7.4	**1.0**	**13**	**2.5**	**3.9**	**0.90**	**0.77 J**	**0.93**	**0.75 J**	**0.85**	**0.51 J**
Heptane	142-82-5	7.6	19	**0.41 J**	**0.72 J**	**0.91 J**	**0.74 J**	**0.77 J**	**0.73 J**	**0.97 J**	**1.1 J**	**2.0**	**1.0 J**
Hexane	110-54-3	6	18	**0.47 J**	**0.55 J**	**0.93 J**	**0.51 J**	**1.8**	**1.1 J**	**1.5 J**	**1.3 J**	**1.3 J**	**0.91 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**2.1**	**3.0**	**7.8**	**2.1**	**7.3**	**4.4**	**4.1**	**4.8**	**10**	**6.1**
m&p-Xylene	1330-20-7-m,p	4.6	12	**4.5**	**61**	**10**	**19**	**3.4**	**2.7**	**3.4**	**3.0**	**3.9**	**2.1**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	**0.48 J**	**2.5 J**	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	**1.8**	**22**	**3.8**	**6.6**	**1.4**	**1.0**	**1.4**	**1.2**	**1.5**	**0.76 J**
Styrene	100-42-5	0.64	1.3	**0.41 J**	**0.34 J**	**0.30 J**	**0.51 J**	**0.30 J**	< 0.25 U	**0.52 J**	< 0.25 U	< 0.25 U	< 0.25 U
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**1.1**	**1.6**	**7.4**	**2.5**	**4.5**	**4.3**	**5.0**	**4.5**	**21**	**8.8**
Not MGP Related [2]													
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.51 J**	**0.47 J**	**0.52 J**	**0.46 J**	**0.50 J**	**0.54 J**	**0.50 J**	**0.51 J**	**0.60 J**	**0.52 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	**0.16 J**	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	**0.58 J**	**0.61 J**	**0.86 J**	**0.77 J**	**0.75 J**	**0.52 J**
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**0.83 J**	**1.3 J**	**1.2 J**	**1.2 J**	**3.3**	**2.5 J**	**4.6**	**1.6 J**	**4.2 J**	**1.7 J**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	**0.41 J**	< 0.24 U	**0.36 J**	< 0.24 U	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**3.4 J**	**240**	**88**	**48**	**21**	**13**	**22**	**73**	**17**	**14**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**0.81 J**	**0.62 J**	**0.53 J**	**0.64 J**	**1.4 J**	**1.9 J**	**2.3**	**0.39 J**	**6.1**	**1.0 J**
Acetone	67-64-1	52	110	**8.2 J**	**14**	**9.3 J**	**13**	**20 J**	**13 J**	**17 J**	**26**	**25**	**13**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Carbon tetrachloride	56-23-5	0.59	0.81	**0.41 J**	**0.37 J**	**0.57 J**	**0.36 J**	**0.45 J**	**0.44 J**	**0.43 J**	**0.47 J**	**0.46 J**	**0.42 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	< 0.19 U	< 0.19 U	**1.5**	**0.58 J**	**0.67 J**	**0.38 J**	**2.0**	**0.40 J**	**0.37 J**	**0.31 J**
Chloromethane	74-87-3	1.8	3.3	**1.3**	**0.91 J**	**1.4**	**0.92 J**	**1.2**	**1.3**	**1.2**	**1.2**	**1.4**	**1.2**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.2**	**2.1**	**2.5**	**2.0**	**2.2**	**2.2**	**2.2**	**2.3**	**2.3**	**2.2**
Ethanol	64-17-5	540	1400	**110**	**67**	**66**	**200**	**290**	**110**	**210**	**130**	**550**	**180**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**1.3 J**	**1.4 J**	**5.2**	**2.0**	**2.1**	**1.6 J**	**1.8**	**1.9**	**2.4**	**2.1**
Propylene	115-07-1	NL	NL	**2.1 J**	**2.2 J**	**2.4 J**	**2.5 J**	**8.8 J**	**3.2 J**	**3.0 J**	**4.4 J**	**3.8 J**	**3.0 J**
Tetrachloroethene	127-18-4	1.1	2.9	< 0.27 U	**0.27 J**	**0.28 J**	**0.47 J**	**1.3**	**1.0 J**	**1.4**	**1.0 J**	**1.1 J**	**0.92 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.4**	**1.3**	**1.7**	**1.3**	**1.2**	**1.2**	**1.2**	**1.4 J**	**1.5 J**	**1.5 J**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location				Building 13 - 390 1st Avenue			Building 14 - 1 Peter Cooper Road			Building 15 - 420 East 23rd Street		
Type of Sample		NYSDOH Background Indoor Air Values[3]		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date	CAS No.			3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/14/2014	3/14/2014	3/14/2014
Sample ID		75th Percentile	90th Percentile	PCV-IA1-B13-031114	PCV-IA2-B13-031114	PCV-IA3-B13-031114	PCV-IA1-B14-031114	PCV-IA1FD-B14-031114	PCV-IA2-B14-031114	PCV-IA1-B15-031414	PCV-IA2-B15-031414	PCV-IA3-B15-031414
Laboratory ID				14010411	14010411	14010411	14010411	14010411	14010411	14010601	14010601	14010601
Compound (µg/m³)												
Possibly MGP Related or Other Sources [1]												
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	**1.1**	**39**	**8.4**	< 0.31 U	< 0.31 U	< 0.31 U	**0.55 J**	**0.57 J**	**0.37 J**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	**0.44 J**	**15**	**3.1**	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.32 U	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.31 J**	**0.41 J**	**0.38 J**	**0.21 J**	**0.22 J**	**0.24 J**	**0.22 J**	< 0.18 U	**0.19 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 UJ	< 0.82 U	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	**0.74**	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ
4-Ethyltoluene	622-96-8	NL	NL	**0.51 J**	**17**	**3.4**	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 UJ	**0.42 J**	< 0.32 U
Benzene	71-43-2	5.9	15	**0.96**	**1.6**	**1.1**	**0.61 J**	**0.64**	**0.67**	**0.68 J**	**0.70**	**0.60 J**
Carbon disulfide	75-15-0	NL	NL	< 0.097 U	**0.10 J**	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 UJ	**0.13 J**	< 0.097 U
Cyclohexane	110-82-7	2.6	8.1	**0.16 J**	**0.32 J**	**0.26 J**	< 0.14 U	**0.15 J**	< 0.14 U	**0.14 J**	**0.14 J**	< 0.14 U
Ethylbenzene	100-41-4	2.8	7.4	**0.36 J**	**2.7**	**0.97**	< 0.30 U	< 0.30 U	< 0.30 U	**3.4 J**	**1.6**	**1.3**
Heptane	142-82-5	7.6	19	**0.32 J**	**1.3 J**	**0.68 J**	**0.25 J**	**0.31 J**	**0.32 J**	**0.25 J**	**0.22 J**	< 0.19 U
Hexane	110-54-3	6	18	**0.73 J**	**0.93 J**	**0.87 J**	**0.53 J**	**0.49 J**	**0.58 J**	**0.38 J**	**0.66 J**	**0.36 J**
Indane	496-11-7	NL	NL	< 0.97 U	**3.8**	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 UJ	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 UJ	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**2.9**	**4.3**	**3.5**	**2.1**	**2.2**	**2.5**	**2.2 J**	**1.9**	**2.4**
m&p-Xylene	1330-20-7-m,p	4.6	12	**1.3**	**13**	**4.2**	**0.56 J**	**0.57 J**	**0.70 J**	**24 J**	**9.6**	**8.1**
Naphthalene	91-20-3	NL	NL	< 0.47 U	**15**	**3.7**	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 UJ	< 0.47 U	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	**0.52 J**	**5.4**	**1.7**	< 0.26 U	< 0.26 U	< 0.26 U	**8.4 J**	**3.0**	**2.7**
Styrene	100-42-5	0.64	1.3	< 0.25 U	**4.5**	**1.1**	< 0.25 U	< 0.25 U	< 0.25 U	**0.28 J**	< 0.25 U	**0.50 J**
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**38**	**420**	**270**	**1.0**	**1.0**	**1.1**	**1.7 J**	**1.6**	**1.5**
Not MGP Related [2]												
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 UJ	< 0.16 U	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.61 J**	**0.54 J**	**0.54 J**	**0.54 J**	**0.53 J**	**0.50 J**	**0.57 J**	**0.47 J**	**0.54 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 UJ	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 UJ	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 UJ	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.15 J**	**0.73 J**	**0.17 J**
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 UJ	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	**2.2**	**2.5**	**2.3**	< 0.38 UJ	< 0.38 U	< 0.38 U
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**0.78 J**	**1.7 J**	**1.1 J**	**0.74 J**	**1.0 J**	**1.0 J**	< 0.59 UJ	< 0.59 U	< 0.59 U
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**3.5 J**	**5.5**	**3.7 J**	**2.6 J**	**3.0 J**	**37**	**3.0 J**	**2.2 J**	**4.0 J**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**22**	**1.7 J**	**2.2**	**1.3 J**	**0.34 J**	**0.21 J**	< 2.0 UJ	< 0.18 UJ	**0.98 J**
Acetone	67-64-1	52	110	**60**	**880**	**520**	**6.5 J**	**8.4 J**	**14**	**9.2 J**	**7.7 J**	**6.2 J**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 UJ	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	**0.52 J**	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 UJ	< 0.12 U	**0.21 J**
Carbon tetrachloride	56-23-5	0.59	0.81	**0.49 J**	**0.41 J**	**0.36 J**	**0.41 J**	**0.45 J**	**0.42 J**	**0.44 J**	**0.41 J**	**0.43 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 UJ	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 UJ	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	**6.6**	**1.2**	**0.86 J**	< 0.19 U	< 0.19 U	< 0.19 U	**0.23 J**	**2.7**	**0.52 J**
Chloromethane	74-87-3	1.8	3.3	**1.1**	**1.2**	**1.2**	**1.2**	**1.0 J**	**0.99 J**	**1.3 J**	**1.0 J**	**1.2**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 UJ	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.4**	**3.4**	**2.4**	**2.3**	**2.5**	**2.2**	**2.4 J**	**2.0**	**2.1**
Ethanol	64-17-5	540	1400	**90**	**55**	**53**	**24**	**25**	**31**	**23 J**	**24**	**23**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 UJ	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 UJ	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**1.4 J**	**1.3 J**	**1.4 J**	**1.3 J**	**1.5 J**	**1.1 J**	**1.4 J**	**2.6**	**1.5 J**
Propylene	115-07-1	NL	NL	< 0.13 U	< 0.13 U	< 0.13 U	**1.6 J**	**1.8 J**	**1.8 J**	**1.7 J**	**2.3 J**	**1.9 J**
Tetrachloroethene	127-18-4	1.1	2.9	**2.1**	< 1.4 U	**0.77 J**	**0.45 J**	**0.46 J**	**0.44 J**	**0.37 J**	**0.58 J**	**0.44 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 UJ	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.7 J**	**1.5 J**	**1.5 J**	**1.5 J**	**1.5 J**	**1.5 J**	**1.5 J**	**1.5**	**1.4**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location		NYSDOH Background Indoor Air Values[3]		Building 16 - 3 Peter Cooper Road			Building 17 - 440 East 23rd Street					
Type of Sample				Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date	CAS No.			3/10/2014	3/10/2014	3/10/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014	3/14/2014
Sample ID		75th Percentile	90th Percentile	PCV-IA1-B16-031014	PCV-IA2-B16-031014	PCV-IA3-B16-031014	PCV-IA1-B17-031414	PCV-IA2-B17-031414	PCV-IA3-B17-031414	PCV-IA3FD-B17-031414	PCV-IA4-B17-031414	PCV-IA5-B17-031414
Laboratory ID				14010371	14010371	14010371	14010601	14010601	14010601	14010601	14010601	14010601
Compound (µg/m³)												
Possibly MGP Related or Other Sources [1]												
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	**0.49 J**	**0.34 J**	**0.53 J**	< 0.31 UJ	< 0.31 UJ	< 0.31 UJ	< 0.31 U	< 0.31 UJ	< 0.31 U
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.32 UJ	< 0.32 UJ	< 0.32 U	< 0.32 UJ	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.22 J**	**0.20 J**	**0.35 J**	**0.25 J**	< 0.18 UJ	**0.24 J**	**0.21 J**	< 0.18 UJ	**0.19 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	**1.8**	< 0.82 U	< 0.82 UJ	< 0.82 UJ	< 0.82 UJ	< 0.82 U	< 0.82 UJ	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ	< 0.70 UJ
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	< 0.32 U	**0.47 J**	< 0.32 UJ	< 0.32 UJ	< 0.32 UJ	< 0.32 U	< 0.32 UJ	< 0.32 U
Benzene	71-43-2	5.9	15	**0.83**	**0.70**	**0.73**	**0.74 J**	**0.63 J**	**0.76 J**	**0.57 J**	**0.50 J**	**0.82**
Carbon disulfide	75-15-0	NL	NL	**0.11 J**	< 0.097 U	< 0.097 U	< 0.097 UJ	< 0.097 UJ	< 0.097 UJ	< 0.097 U	< 0.097 UJ	**0.31 J**
Cyclohexane	110-82-7	2.6	8.1	**0.15 J**	< 0.14 U	**0.41 J**	< 0.14 UJ	< 0.14 UJ	< 0.14 UJ	**0.16 J**	< 0.14 UJ	< 0.14 U
Ethylbenzene	100-41-4	2.8	7.4	**0.57 J**	**3.0**	**1.0**	< 0.30 UJ	< 0.30 UJ	< 0.30 UJ	< 0.30 U	< 0.30 UJ	< 0.30 U
Heptane	142-82-5	7.6	19	**0.48 J**	**1.0 J**	**0.70 J**	**0.21 J**	< 0.19 UJ	**0.24 J**	< 0.19 U	< 0.19 UJ	**0.23 J**
Hexane	110-54-3	6	18	**0.92 J**	**0.54 J**	**0.53 J**	**0.42 J**	**0.36 J**	**0.44 J**	**0.53 J**	**0.29 J**	**0.36 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 UJ	< 0.97 UJ	< 0.97 UJ	< 0.97 U	< 0.97 UJ	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 UJ	< 1.9 UJ	< 1.9 UJ	< 1.9 U	< 1.9 UJ	< 1.9 U
Isopentane	78-78-4	NL	NL	**2.1**	**2.4**	**2.0**	**2.5 J**	**2.2 J**	**2.8 J**	**2.4**	**2.6 J**	**2.6**
m&p-Xylene	1330-20-7-m,p	4.6	12	**2.8**	**16**	**6.6**	< 0.52 UJ	**0.83 J**	< 0.52 UJ	< 0.52 U	**0.57 J**	< 0.52 U
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 UJ	< 0.47 UJ	< 0.47 UJ	< 0.47 U	< 0.47 UJ	**0.86 J**
o-Xylene	95-47-6	3.1	7.6	**1.1**	**5.5**	**1.9**	< 0.26 UJ	**0.33 J**	< 0.26 UJ	< 0.26 U	< 0.26 UJ	< 0.26 U
Styrene	100-42-5	0.64	1.3	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 UJ	< 0.25 UJ	< 0.25 U	< 0.25 UJ	< 0.25 U
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 UJ	< 0.69 UJ	< 0.69 U	< 0.69 UJ	< 0.69 U
Toluene	108-88-3	24.8	58	**1.4**	**0.99**	**1.1**	**0.91 J**	**0.83 J**	**1.0 J**	**0.60 J**	**0.67 J**	**0.84**
Not MGP Related [2]												
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 UJ	< 0.16 UJ	< 0.16 UJ	< 0.16 U	< 0.16 UJ	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 UJ	< 0.42 UJ	< 0.42 U	< 0.42 UJ	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.51 J**	**0.50 J**	**0.51 J**	**0.62 J**	**0.63 J**	**0.63 J**	**0.51 J**	**0.53 J**	**0.58 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ	< 0.29 UJ	< 0.29 U	< 0.29 UJ	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ	< 0.11 U	< 0.11 UJ	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 UJ	< 0.13 UJ	< 0.13 UJ	< 0.13 U	< 0.13 UJ	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 UJ	< 0.73 UJ	< 0.73 UJ	< 0.73 U	< 0.73 UJ	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 UJ	< 0.34 UJ	< 0.34 U	< 0.34 UJ	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 UJ	< 0.42 UJ	< 0.42 UJ	< 0.42 U	< 0.42 UJ	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 U	< 0.19 UJ	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ	< 0.24 UJ	< 0.24 U	< 0.24 UJ	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U	**0.22 J**	< 0.14 UJ	**0.22 J**	**0.17 J**	< 0.14 UJ	**0.19 J**
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 UJ	< 0.39 UJ	< 0.39 UJ	< 0.39 U	< 0.39 UJ	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 U	< 0.38 UJ	< 0.38 U
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ	< 0.29 UJ	< 0.29 U	< 0.29 UJ	< 0.29 U
2-Butanone	78-93-3	7.3	16	**1.1 J**	**0.98 J**	**0.78 J**	**0.60 J**	**1.0 J**	**1.3 J**	< 0.59 U	< 0.59 UJ	**0.92 J**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ	< 0.24 UJ	< 0.24 U	< 0.24 UJ	< 0.24 U
2-Propanol	67-63-0	NL	NL	**3.3 J**	**11**	**7.3**	**6.3 J**	**19 J**	**13 J**	**22 J**	**45 J**	**7.7**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	< 0.18 U	**0.24 J**	**0.23 J**	**0.29 J**	< 0.18 UJ	**0.24 J**	**0.22 J**	**0.20 J**	**0.44 J**
Acetone	67-64-1	52	110	**10 J**	**23**	**15**	**4.9 J**	**10 J**	**12 J**	**6.2 J**	**5.8 J**	**10 J**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 U	< 0.40 UJ	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 UJ	< 0.29 UJ	< 0.29 UJ	< 0.29 U	< 0.29 UJ	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 U	< 0.50 UJ	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	< 0.12 U	< 0.12 U	**0.17 J**	< 0.12 UJ	**0.18 J**	< 0.12 U	< 0.12 UJ	**0.13 J**
Carbon tetrachloride	56-23-5	0.59	0.81	**0.39 J**	**0.41 J**	**0.42 J**	**0.55 J**	**0.57 J**	**0.56 J**	**0.46 J**	**0.42 J**	**0.53 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 UJ	< 0.23 UJ	< 0.23 UJ	< 0.23 U	< 0.23 UJ	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 UJ	< 0.092 UJ	< 0.092 UJ	< 0.092 U	< 0.092 UJ	< 0.092 U
Chloroform	67-66-3	0.54	1.4	**0.23 J**	**0.43 J**	**0.63 J**	**0.29 J**	**0.19 J**	**0.41 J**	**0.48 J**	**0.90 J**	**2.9**
Chloromethane	74-87-3	1.8	3.3	**0.97 J**	**0.96 J**	**1.2**	**1.0 J**	**1.7 J**	**1.0 J**	**0.84 J**	**0.85 J**	**1.5**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 UJ	< 0.24 UJ	< 0.24 UJ	< 0.24 U	< 0.24 UJ	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 UJ	< 0.34 UJ	< 0.34 UJ	< 0.34 U	< 0.34 UJ	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 UJ	< 0.36 UJ	< 0.36 UJ	< 0.36 U	< 0.36 UJ	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.1**	**2.4**	**2.3**	**2.4 J**	**2.6 J**	**2.5 J**	**2.2**	**2.2 J**	**2.4**
Ethanol	64-17-5	540	1400	**51**	**100**	**89**	**20 J**	**20 J**	**23 J**	**24**	**19 J**	**44**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22 U	< 0.22 UJ	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 UJ	< 0.83 UJ	< 0.83 UJ	< 0.83 U	< 0.83 UJ	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 UJ	< 0.61 UJ	< 0.61 UJ	< 0.61 U	< 0.61 UJ	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**2.4**	**11**	**4.9**	**3.0 J**	**31 J**	**11 J**	**5.7 J**	**4.6 J**	**5.9**
Propylene	115-07-1	NL	NL	**2.5 J**	**2.2 J**	**2.3 J**	**1.7 J**	**1.4 J**	**2.0 J**	**1.6 J**	**1.3 J**	**2.0 J**
Tetrachloroethene	127-18-4	1.1	2.9	**0.58 J**	**0.60 J**	**0.44 J**	**2.8 J**	**0.35 J**	**0.41 J**	**0.36 J**	**0.39 J**	**0.37 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 U	< 0.20 UJ	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	< 0.22 U	< 0.22 UJ	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 U	< 0.19 UJ	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.4**	**1.5**	**1.5**	**1.6 J**	**1.6 J**	**1.7 J**	**1.6**	**1.5 J**	**1.6**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 UJ	< 0.18 UJ	< 0.18 UJ	< 0.18 U	< 0.18 UJ	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location				Building 18 - 5 Peter Cooper Road				Building 19 - 510 East 23rd Street			Building 20 - 7 Peter Cooper Road		
Type of Sample		NYSDOH Background Indoor Air Values[3]		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sampling Date				3/10/2014	3/10/2014	3/10/2014	3/10/2014	3/10/2014	3/10/2014	3/10/2014	3/14/2014	3/14/2014	3/14/2014
Sample ID	CAS No.	75th Percentile	90th Percentile	PCV-IA1-B18-031014	PCV-IA2-B18-031014	PCV-IA3-B18-031014	PCV-IATC-B18-031014	PCV-IA1-B19-031014	PCV-IA2-B19-031014	PCV-IA3-B19-031014	PCV-IA1-B20-031414	PCV-IA2-B20-031414	PCV-IA3-B20-031414
Laboratory ID				14010371	14010371	14010371	14010371	14010541	14010541	14010541	14010601	14010601	14010601
Compound (µg/m³)													
Possibly MGP Related or Other Sources [1]													
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	**0.40 J**	**0.60 J**	**0.42 J**	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	**1.8**	**3.7**	**0.98**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	**0.48 J**	**0.98**	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	< 0.18 U	**0.20 J**	< 0.18 U	< 0.18 U	**0.21 J**	**0.20 J**	**0.22 J**	**0.42 J**	**0.44 J**	**0.48 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	**0.71**	< 0.70 U
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	**0.91 J**	**1.6 J**	**0.51 J**
Benzene	71-43-2	5.9	15	**0.59 J**	**0.73**	**0.64**	**0.61 J**	**0.67**	**0.65**	**0.77**	**1.0**	**1.1**	**1.1**
Carbon disulfide	75-15-0	NL	NL	**0.12 J**	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	**0.27 J**	< 0.097 U	< 0.097 U	< 0.097 U	**0.12 J**
Cyclohexane	110-82-7	2.6	8.1	< 0.14 U	**0.27 J**	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.20 J**	**0.27 J**	**0.17 J**
Ethylbenzene	100-41-4	2.8	7.4	**1.0**	**1.0**	**1.6**	**1.2**	< 0.30 U	< 0.30 U	< 0.30 U	**5.0**	**8.0**	**2.5**
Heptane	142-82-5	7.6	19	**0.24 J**	**0.53 J**	**0.31 J**	**0.24 J**	< 0.19 U	**0.20 J**	**0.23 J**	**0.50 J**	**0.63 J**	**0.49 J**
Hexane	110-54-3	6	18	**0.44 J**	**0.55 J**	**0.59 J**	**0.47 J**	**0.46 J**	**0.59 J**	**0.92 J**	**0.80 J**	**0.96 J**	**0.75 J**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**1.8**	**2.5**	**1.9**	**2.0**	**2.4**	**5.0**	**2.8**	**2.4**	**2.7**	**2.1**
m&p-Xylene	1330-20-7-m,p	4.6	12	**5.4**	**5.4**	**8.5**	**6.2**	< 0.52 U	**0.99**	**0.80 J**	**22**	**35**	**11**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	**2.0**	**2.4**	**3.2**	**2.4**	< 0.26 U	**0.38 J**	**0.31 J**	**8.7**	**13**	**4.5**
Styrene	100-42-5	0.64	1.3	< 0.25 U	**7.8**	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	**0.29 J**	**0.32 J**	< 0.25 U
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**0.81**	**1.7**	**0.98**	**0.84**	**0.75**	**0.95**	**0.86**	**2.4**	**2.9**	**1.9**
Not MGP Related [2]													
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.46 J**	**0.54 J**	**0.46 J**	**0.51 J**	**0.58 J**	**0.58 J**	**0.54 J**	**0.51 J**	**0.52 J**	**0.47 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U	**0.31 J**	**0.28 J**	**0.24 J**
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	**0.43 J**	< 0.38 U	< 0.38 U
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**1.1 J**	**0.83 J**	**0.68 J**	< 0.59 U	< 0.59 U	**0.75 J**	**0.75 J**	**0.75 J**	**1.5 J**	**0.77 J**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**3.5 J**	**6.2**	**3.0 J**	**2.9 J**	**4.1 J**	**3.4 J**	**5.3**	**6.0**	**12**	**3.2 J**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	**0.47 J**	**12**	**0.20 J**	**0.43 J**	< 0.18 U	**9.8**	< 0.18 U	**0.52 J**	**3.5**	**25**
Acetone	67-64-1	52	110	**9.7 J**	**45**	**7.9 J**	**6.3 J**	**5.5 J**	**8.6 J**	**7.8 J**	**7.5 J**	**11 J**	**5.3 J**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	**0.15 J**	**0.13 J**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Carbon tetrachloride	56-23-5	0.59	0.81	**0.40 J**	**0.42 J**	**0.38 J**	**0.40 J**	**0.44 J**	**0.43 J**	**0.51 J**	**0.34 J**	**0.41 J**	**0.40 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	**0.20 J**	**0.31 J**	**0.21 J**	**0.22 J**	< 0.19 U	< 0.19 U	< 0.19 U	**0.31 J**	**0.46 J**	**0.68 J**
Chloromethane	74-87-3	1.8	3.3	**1.0 J**	**1.3**	**0.95 J**	**1.3**	**1.1**	**1.1**	**1.5**	**1.2**	**1.1**	**1.1**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.4**	**2.4**	**2.1**	**2.2**	**2.6**	**2.9**	**2.7**	**2.1**	**2.1**	**1.9**
Ethanol	64-17-5	540	1400	**48**	**880**	**59**	**47**	**20**	**39**	**39**	**240**	**450**	**68**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**1.6 J**	**1.8**	**6.9**	**1.7**	**1.5 J**	**2.2**	**1.4 J**	**1.8**	**1.7 J**	**1.9**
Propylene	115-07-1	NL	NL	**2.4 J**	**2.9 J**	**2.4 J**	**2.4 J**	< 0.13 U	**2.3 J**	**2.6 J**	**2.1 J**	**2.1 J**	**1.8 J**
Tetrachloroethene	127-18-4	1.1	2.9	< 0.27 U	**0.67 J**	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	**0.29 J**	**0.33 J**	**0.32 J**	**0.31 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.3**	**1.5**	**1.4**	**1.3**	**1.8 J**	**1.8 J**	**1.8 J**	**1.2**	**1.1**	**1.0 J**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 2
Indoor and Ambient Air Sample Results
E. 21st Street Works Former MGP Site
New York, New York

Building Location Type of Sample Sampling Date Sample ID Laboratory ID	CAS No.	NYSDOH Background Indoor Air Values[3]		Building 21 - 530 East 23rd Street		
		75th Percentile	90th Percentile	Indoor Air 3/10/2014 PCV-IA1-B21-031014 14010541	Indoor Air 3/10/2014 PCV-IA2-B21-031014 14010541	Indoor Air 3/10/2014 PCV-IA3-B21-031014 14010541
Compound (µg/m³)						
Possibly MGP Related or Other Sources [1]						
1,2,4-Trimethylbenzene	95-63-6	4.3	9.5	< 0.31 U	**1.6**	**0.35 J**
1,3,5-Trimethylbenzene	108-67-8	1.7	3.6	< 0.32 U	**0.36 J**	< 0.32 U
2,2,4-Trimethylpentane	540-84-1	NL	NL	**0.19 J**	**0.25 J**	**0.27 J**
2,3-Dimethylpentane	565-59-3	2.2	7.5	< 0.82 U	< 0.82 U	< 0.82 U
2-Methylpentane	107-83-5	NL	NL	< 0.70 U	**5.5**	**1.4**
4-Ethyltoluene	622-96-8	NL	NL	< 0.32 U	**0.61 J**	< 0.32 U
Benzene	71-43-2	5.9	15	**0.65**	**0.79**	**0.92**
Carbon disulfide	75-15-0	NL	NL	**0.14 J**	< 0.097 U	< 0.097 U
Cyclohexane	110-82-7	2.6	8.1	< 0.14 U	**0.33 J**	**0.21 J**
Ethylbenzene	100-41-4	2.8	7.4	**0.35 J**	**1.2**	**0.33 J**
Heptane	142-82-5	7.6	19	**0.22 J**	**0.72 J**	**0.34 J**
Hexane	110-54-3	6	18	**0.95 J**	**45**	**9.8**
Indane	496-11-7	NL	NL	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	NL	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-78-4	NL	NL	**8.6**	**2.7**	**5.6**
m&p-Xylene	1330-20-7-m,p	4.6	12	**1.3**	**5.2**	**1.2**
Naphthalene	91-20-3	NL	NL	< 0.47 U	< 0.47 U	< 0.47 U
o-Xylene	95-47-6	3.1	7.6	**0.47 J**	**1.9**	**0.49 J**
Styrene	100-42-5	0.64	1.3	< 0.25 U	< 0.25 U	< 0.25 U
Thiophene	110-02-1	NL	NL	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	24.8	58	**0.89**	**2.6**	**1.3**
Not MGP Related [2]						
1,1,1-Trichloroethane	71-55-6	1.1	3.1	< 0.16 U	< 0.16 U	< 0.16 U
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	< 0.42 U	< 0.42 U	< 0.42 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1.1	1.8	**0.51 J**	**0.48 J**	**0.56 J**
1,1,2-Trichloroethane	79-00-5	0.25	0.25	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloroethane	75-34-3	0.25	0.25	< 0.11 U	< 0.11 U	< 0.11 U
1,1-Dichloroethene	75-35-4	0.25	0.25	< 0.13 U	< 0.13 U	< 0.13 U
1,2,4-Trichlorobenzene	120-82-1	0.25	3.4	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dibromoethane	106-93-4	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U
1,2-Dichlorobenzene	95-50-1	0.25	0.72	< 0.42 U	< 0.42 U	< 0.42 U
1,2-Dichloroethane	107-06-2	0.25	0.25	< 0.19 U	< 0.19 U	< 0.19 U
1,2-Dichloropropane	78-87-5	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U
1,3-Butadiene	106-99-0	NL	NL	< 0.14 U	< 0.14 U	< 0.14 U
1,3-Dichlorobenzene	541-73-1	0.25	0.6	< 0.39 U	< 0.39 U	< 0.39 U
1,4-Dichlorobenzene	106-46-7	0.54	1.3	< 0.38 U	< 0.38 U	< 0.38 U
1,4-Dioxane	123-91-1	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U
2-Butanone	78-93-3	7.3	16	**0.71 J**	**1.9 J**	**1.2 J**
2-Hexanone	591-78-6	NL	NL	< 0.24 U	< 0.24 U	< 0.24 U
2-Propanol	67-63-0	NL	NL	**5.3**	**12**	**20**
4-Methyl-2-pentanone	108-10-1	0.86	2.2	< 0.18 U	**0.41 J**	**0.37 J**
Acetone	67-64-1	52	110	**8.7 J**	**45**	**20**
Benzyl chloride	100-44-7	NL	NL	< 0.40 U	< 0.40 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	< 0.29 U	< 0.29 U	< 0.29 U
Bromoform	75-25-2	NL	NL	< 0.50 U	< 0.50 U	< 0.50 U
Bromomethane	74-83-9	0.25	0.6	< 0.12 U	**0.14 J**	< 0.12 U
Carbon tetrachloride	56-23-5	0.59	0.81	**0.44 J**	**0.37 J**	**0.43 J**
Chlorobenzene	108-90-7	0.25	0.25	< 0.23 U	< 0.23 U	< 0.23 U
Chloroethane	75-00-3	0.25	0.25	< 0.092 U	< 0.092 U	< 0.092 U
Chloroform	67-66-3	0.54	1.4	< 0.19 U	**0.35 J**	**0.23 J**
Chloromethane	74-87-3	1.8	3.3	**1.3**	**1.2**	**1.2**
cis-1,2-Dichloroethene	156-59-2	0.25	0.25	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	< 0.34 U	< 0.34 U	< 0.34 U
Dibromochloromethane	124-48-1	NL	NL	< 0.36 U	< 0.36 U	< 0.36 U
Dichlorodifluoromethane	75-71-8	4.1	15	**2.5**	**2.3**	**2.7**
Ethanol	64-17-5	540	1400	**31**	**100**	**64**
Freon 114	76-14-2	0.25	0.52	< 0.22 U	< 0.22 U	< 0.22 U
Hexachlorobutadiene	87-68-3	0.25	4.6	< 0.83 U	< 0.83 U	< 0.83 U
Methyl tert-butyl ether	1634-04-4	5.6	27	< 0.61 U	< 0.61 U	< 0.61 U
Methylene chloride	75-09-2	6.6	22	**1.5 J**	**1.4 J**	**1.7 J**
Propylene	115-07-1	NL	NL	**2.6 J**	**13 J**	< 0.13 U
Tetrachloroethene	127-18-4	1.1	2.9	< 0.27 U	**0.39 J**	**0.28 J**
Tetrahydrofuran	109-99-9	0.35	3.3	< 0.19 U	< 0.19 U	< 0.19 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	< 0.20 U	< 0.20 U	< 0.20 U
trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	< 0.22 U	< 0.22 U	< 0.22 U
Trichloroethene	79-01-6	0.25	0.48	< 0.19 U	< 0.19 U	< 0.19 U
Trichlorofluoromethane	75-69-4	5.4	17	**1.6 J**	**1.3 J**	**1.8 J**
Vinyl chloride	75-01-4	0.25	0.25	< 0.18 U	< 0.18 U	< 0.18 U

Notes:
All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhause, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected at a concentration greater than the method detection limit.

Exceeds NYSDOH Bakground Indoor Air Values 75th Percentile

Exceeds NYSDOH Bakground Indoor Air Values 90th Percentile

FD - As suffix on Sample ID indicates that the sample is a field duplicate.

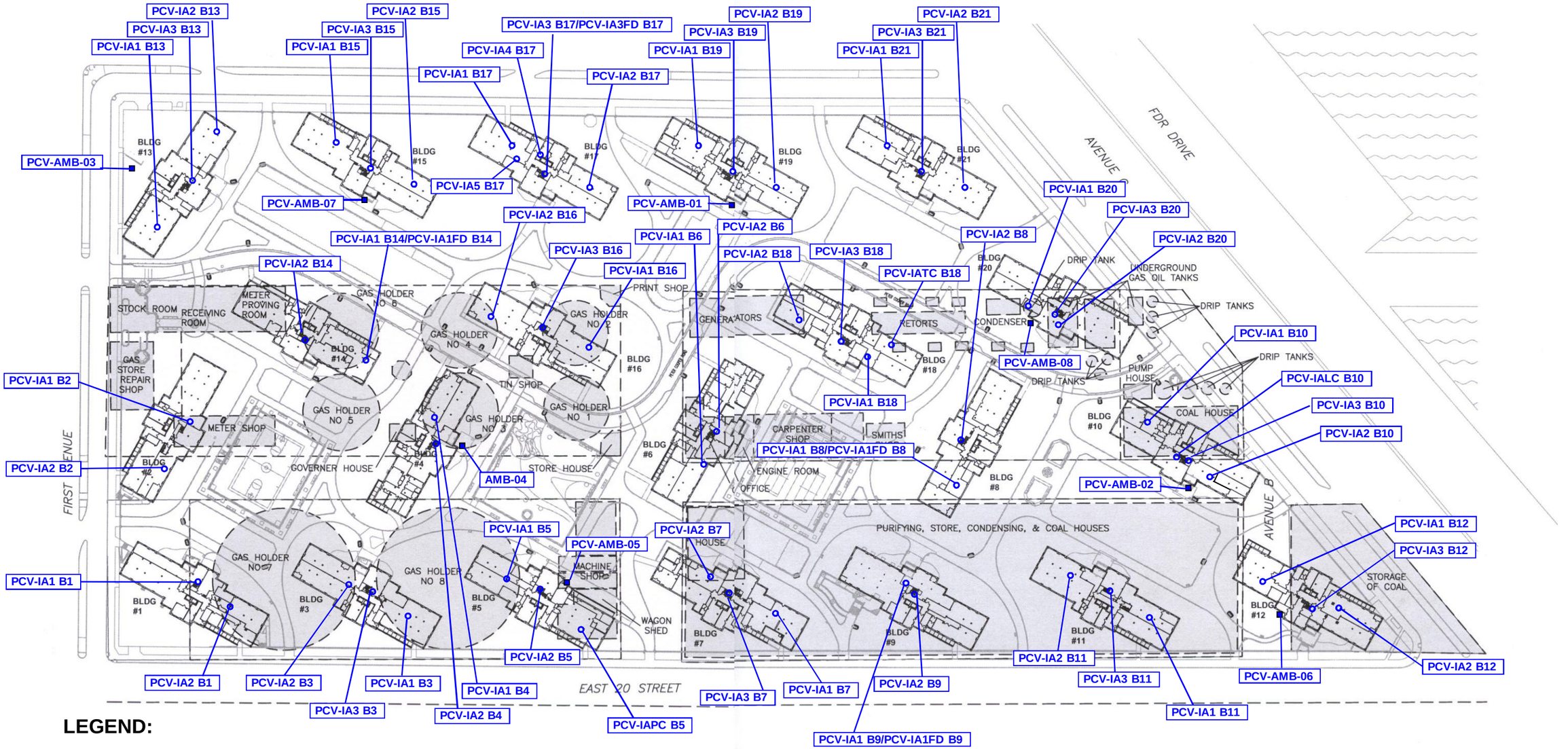
NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method detection limit.

J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Figures



LEGEND:

	FORMER SITE BOUNDARY
	FORMER MGP STRUCTURE
O IA #	INDOOR AIR SAMPLING LOCATION
AMB #	AMBIENT AIR SAMPLING LOCATION
PC	PAINT CHARACTERIZATION
FD	FIELD DUPLICATE
LC	LOBBY CHARACTERIZATION (ON 1ST FLOOR)
TC	TRUNK ROOM CHARACTERIZATION

AECOM

NOTES:
1. SAMPLE LOCATIONS BASED ON PREVIOUS RETEC LOCATIONS IN 2003 AND 2004.
2. MAP SOURCE 1996 AND 1903 SANBORN MAPS.

CONSOLIDATED EDISON FORMER EAST 21ST STREET WORKS 60313314		**SAMPLE LOCATIONS AT FORMER EAST 21st STREET WORKS PETER COOPER VILLAGE**	
DATE: 03/25/2014	DRWN: BJB/SBW/JNE		Figure 1

Appendix A

AECOM Field Sampling Forms and NYSDOH Survey Questionnaire

(Provided on CD)

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA1-B1

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10389 **Regulator #** 10869

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:50	-30	**undisturbed**
In Process #1**	10:22	-25	**undisturbed**
In Process #2**	12:10	-19	**undisturbed**
In Process #3**	14:30	-12	**undisturbed**
End	16:20	-7	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:22	Drager (ppm)	<0.2
10:22	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA2-B1

Sample Location (sketch and/or description) Storage Room

SEE NYSDOH sample questionnaire form

Canister # 09601 **Regulator #** 10862

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:42	-30	**undisturbed**
In Process #1**	10:20	-25.5	**undisturbed**
In Process #2**	12:12	-19	**undisturbed**
In Process #3**	14:38	-12	**undisturbed**
End	16:17	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:10	Drager (ppm)	<0.2
10:10	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT** Name: Multiple

Address: 350 1st Avenue

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:** (If different than occupant) Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

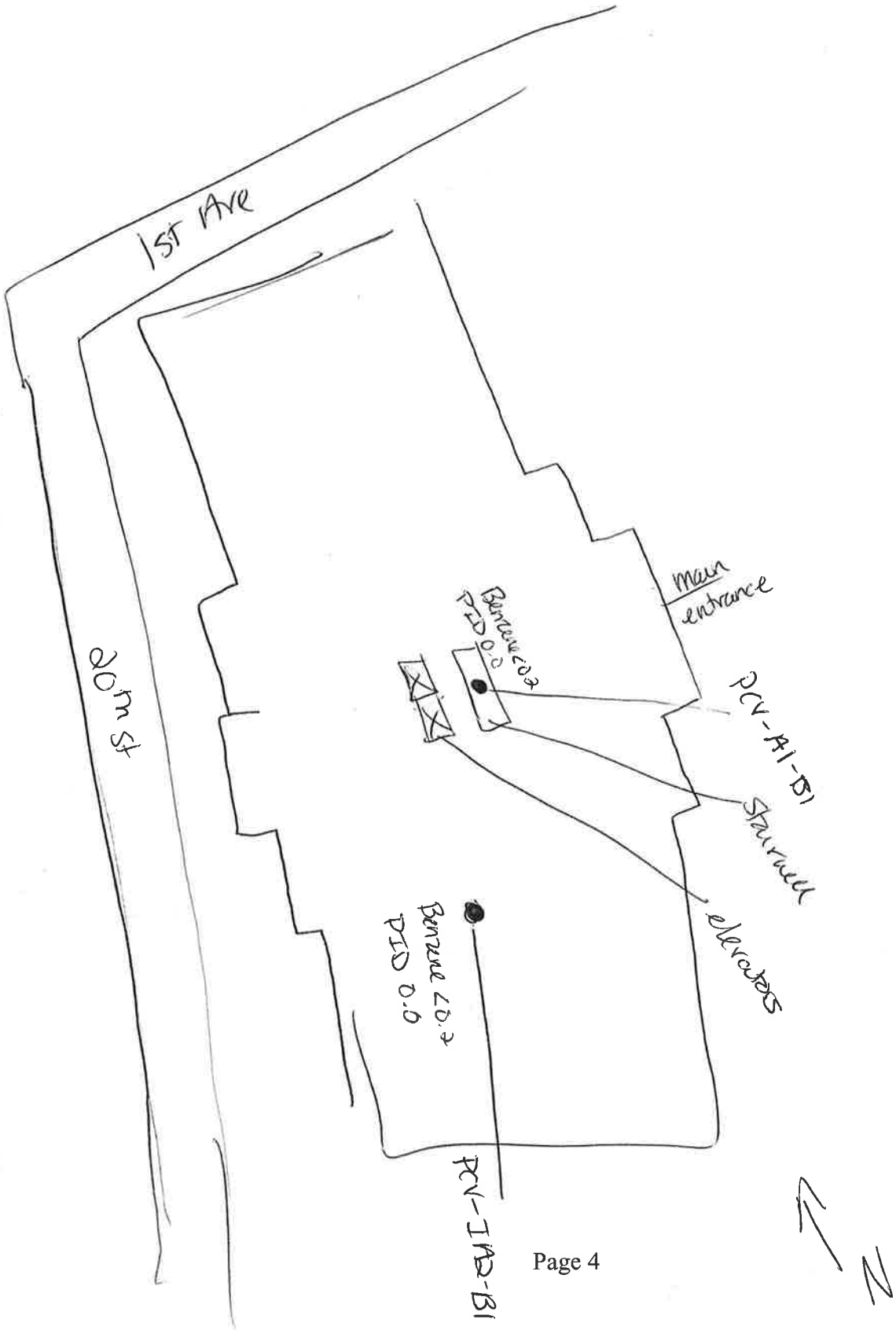
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

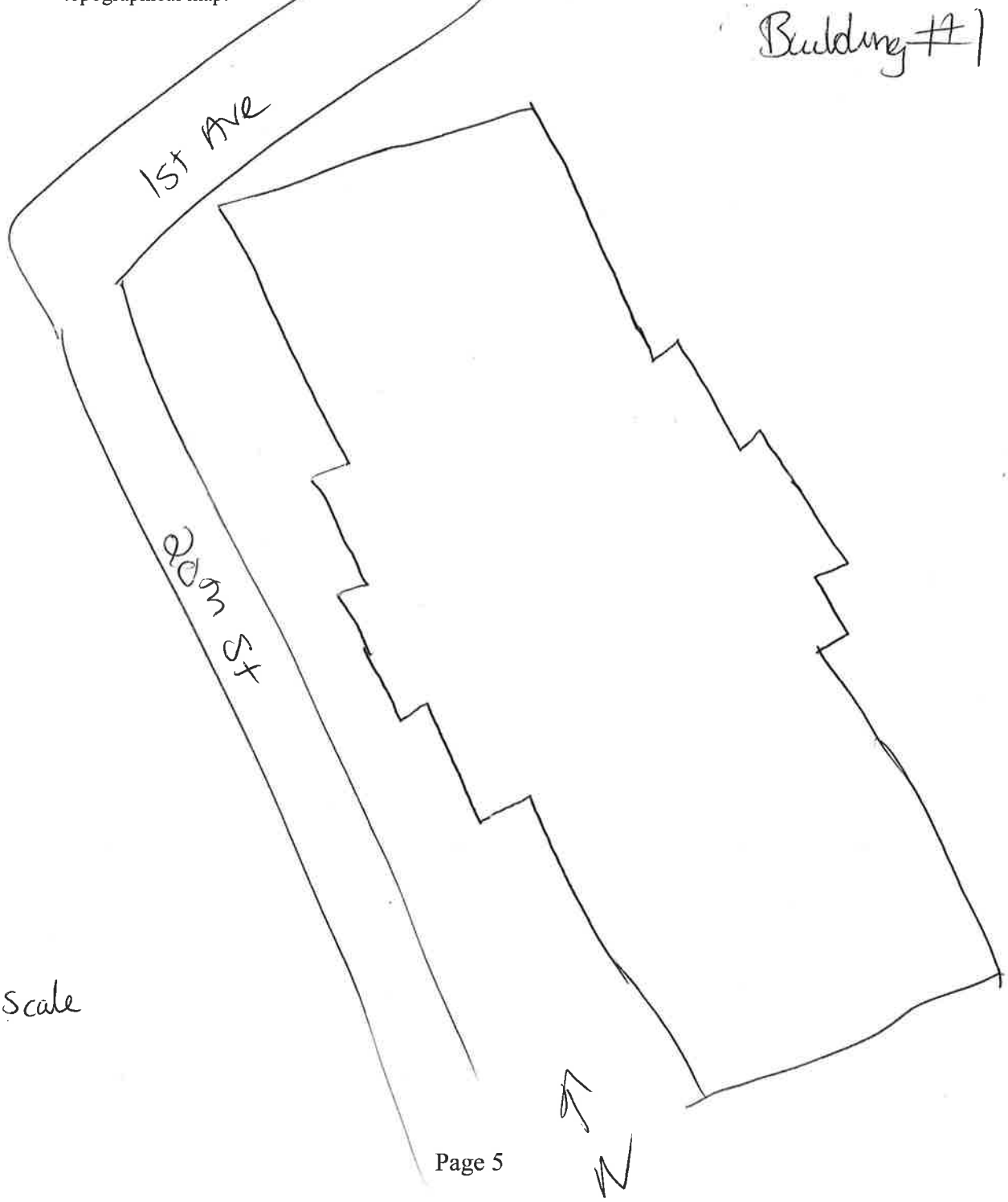


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



* Not to Scale

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/11/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B1	NONE
PCV-IA2-B1	NONE

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA1-B2

Sample Location (sketch and/or description) Storage Room

SEE NYSDOH sample questionnaire form

Canister # 10090 **Regulator #** 09704

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:10	-28	**undisturbed**
In Process #1**	10:25	-26	**undisturbed**
In Process #2**	12:18	-18	**undisturbed**
In Process #3**	14:30	-14	**undisturbed**
End	16:36	-7	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:52	Drager (ppm)	<0.2
11:52	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA2-B2

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10527 **Regulator #** 10058

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:30	-30	**undisturbed**
In Process #1**	11:02	-24.5	**undisturbed**
In Process #2**	13:08	-19	**undisturbed**
In Process #3**	14:30	-14	**undisturbed**
End	16:40	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:50	Drager (ppm)	<0.2
11:50	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 360 1st Avenue

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

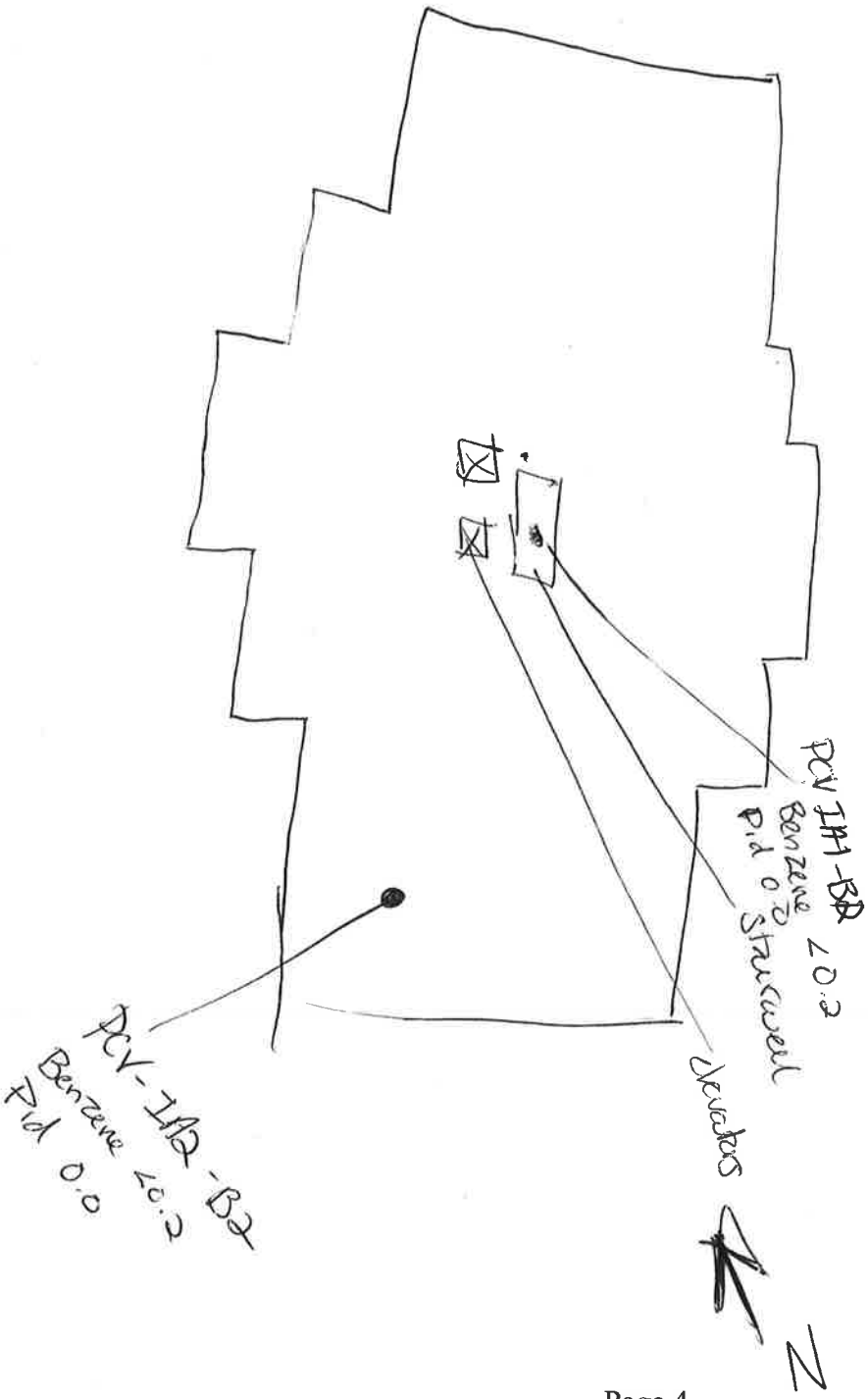
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Building 2

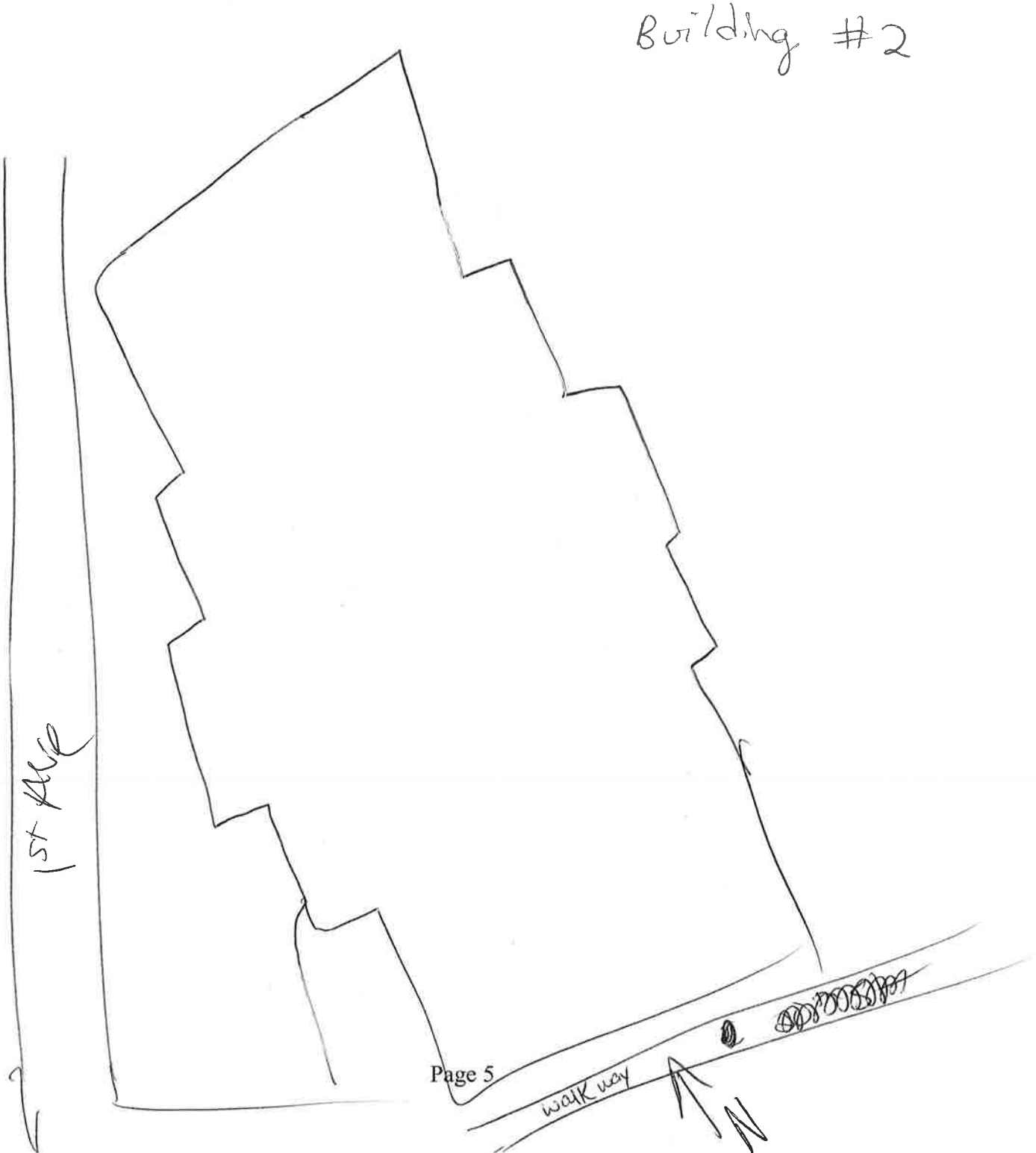


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/11/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B2	NONE
PCV-IA2-B2	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA1-B3

Sample Location (sketch and/or description) Steam Room

SEE NYSDOH sample questionnaire form

Canister # 10212 **Regulator #** 10661

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:42	-29	**undisturbed**
In Process #1**	10:56	-22	**undisturbed**
In Process #2**	13:07	-14	**undisturbed**
In Process #3**	14:55	-8	**undisturbed**
End	15:50	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 73° F

The steam room contains ejector pits

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:55	Drager (ppm)	<0.2
13:06	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA2-B3

Sample Location (sketch and/or description) Storage room/bike room

SEE NYSDOH sample questionnaire form

Canister # 11041 **Regulator #** 10141

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:38	-29	**undisturbed**
In Process #1**	11:06	-22	**undisturbed**
In Process #2**	13:09	-15	**undisturbed**
In Process #3**	14:57	-9	**undisturbed**
End	16:04	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Construction crew filling up large tub/bin with unknown liquid. The crew said it was only water but the room smelled like bleach.

Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:11	Drager (ppm)	<0.2
13:08	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA3-B3

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10247 **Regulator #** 10594

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:47	-30	**undisturbed**
In Process #1**	11:00	-24	**undisturbed**
In Process #2**	13:08	-16	**undisturbed**
In Process #3**	14:59	-10	**undisturbed**
End	16:21	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 72° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:59	Drager (ppm)	<0.2
13:07	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 431 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

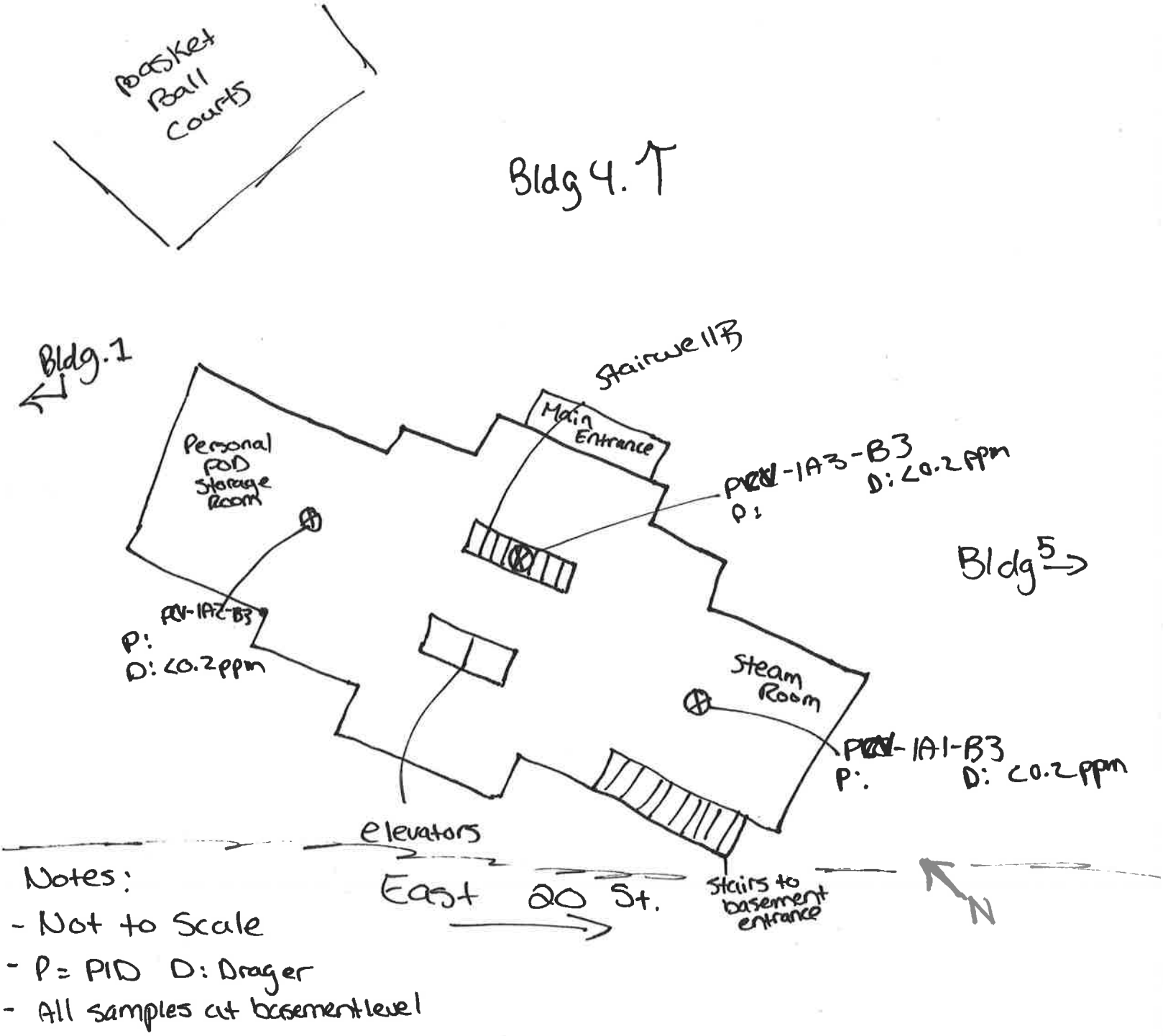
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

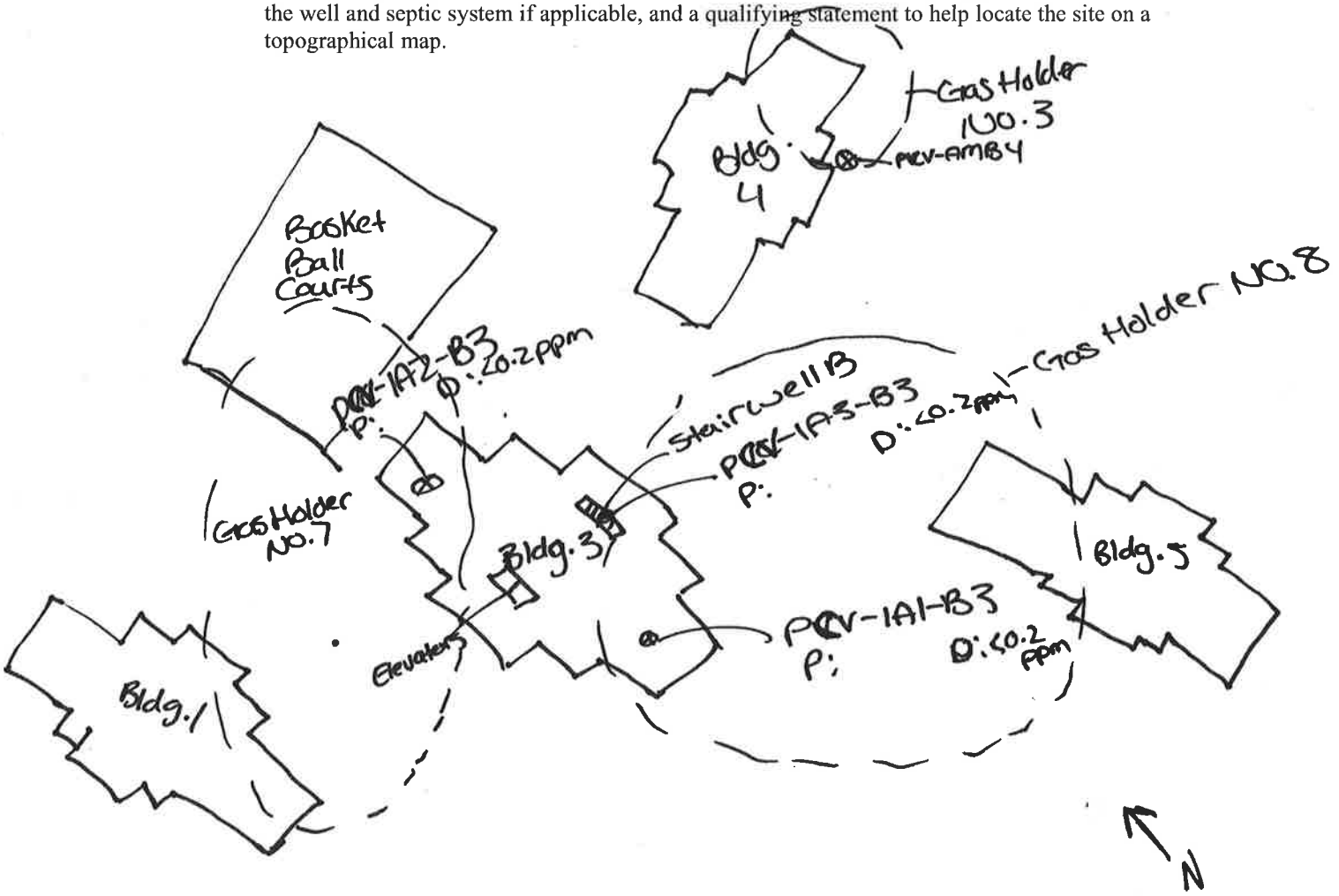


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Notes: Not to scale
P: PID
D: Drager

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/11/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B3 - NONE	NONE
PCV-IA2-B3 – Personal Pods, contents unknown	Unknown
PCV-IA3-B3 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA1-B4

Sample Location (sketch and/or description) Trunk Room

SEE NYSDOH sample questionnaire form

Canister # 10331 **Regulator #** 09909

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:41	-30	**undisturbed**
In Process #1**	11:32	-22	**undisturbed**
In Process #2**	13:16	-14.5	**undisturbed**
In Process #3**	15:18	-6	**undisturbed**
End	15:26	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 69° F. Delayed start: Original set of boxes had sample canes instead of canisters. Had to go back to the vehicle to get more canisters.

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:46	Drager (ppm)	<0.2
13:14	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jessica Ehlen **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA2-B4

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10315 **Regulator #** 2755

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:34	-30	**undisturbed**
In Process #1**	10:12	-28	**undisturbed**
In Process #2**	11:45	-23	**undisturbed**
In Process #3**	14:43	-13	**undisturbed**
End	16:45	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 68° F. Sample is being retaken because the regulator wasn't taken off right on original sample taken on 3/11/14.
NA = Not available

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
10:10	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 2 Peter Cooper Road

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family Multiple Dwelling Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

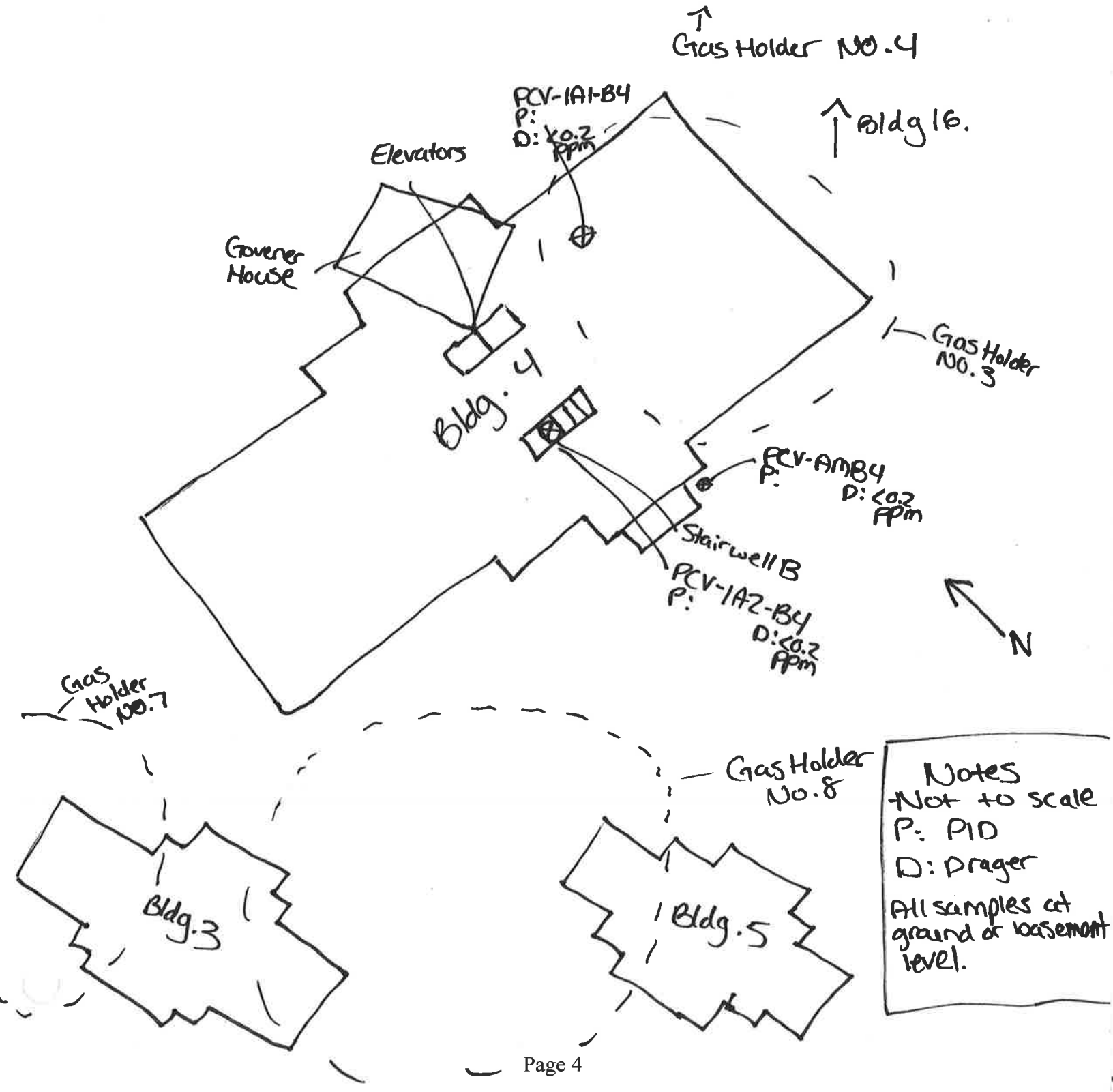
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

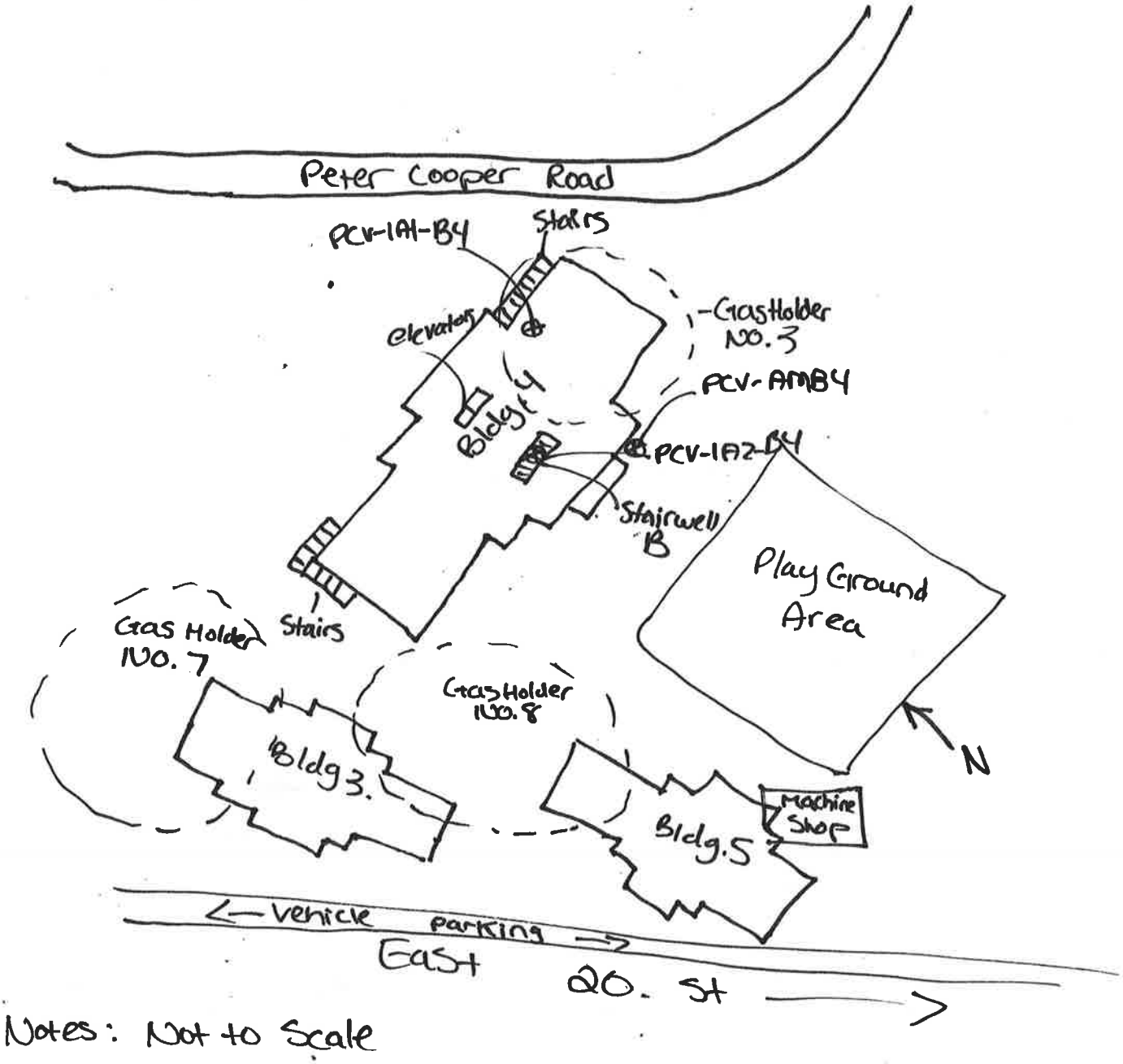


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/11/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B4 – Landscaper's Choice Ice Melter, 50 lb bag, Kissner Group	See picture and SDS
PCV-IA2-B4 - NONE	NONE
PCV-AMB4 – NONE	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B5

Sample Location (sketch and/or description) Storage room

SEE NYSDOH sample questionnaire form

Canister # 10992 **Regulator #** 10632

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:36	-30	**undisturbed**
In Process #1**	10:38	-25	**undisturbed**
In Process #2**	11:52	-21	**undisturbed**
In Process #3**	14:23	-11	**undisturbed**
End	15:59	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 69° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
9:00	Drager (ppm)	<0.2
11:52	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B5

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10718 **Regulator #** 9700

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:41	-29	**undisturbed**
In Process #1**	10:37	-22	**undisturbed**
In Process #2**	12:31	-16	**undisturbed**
In Process #3**	14:22	-10	**undisturbed**
End	15:56	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 70° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
8:55	Drager (ppm)	<0.2
11:51	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1APC-B5

Sample Location (sketch and/or description) Paint room

SEE NYSDOH sample questionnaire form

Canister # 10119 **Regulator #** 09947

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:27	-30	**undisturbed**
In Process #1**	10:36	-24	**undisturbed**
In Process #2**	12:34	-18	**undisturbed**
In Process #3**	14:25	-11	**undisturbed**
End	15:59	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 70° F . Door leading outdoors is open.

Box and canister moved by paint crew to sweep at 16:00

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
8:33	Drager (ppm)	<0.2
11:49	PID (ppb)	0.4

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/12/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT** Name: Multiple

Address: 441 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:** (If different than occupant) Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

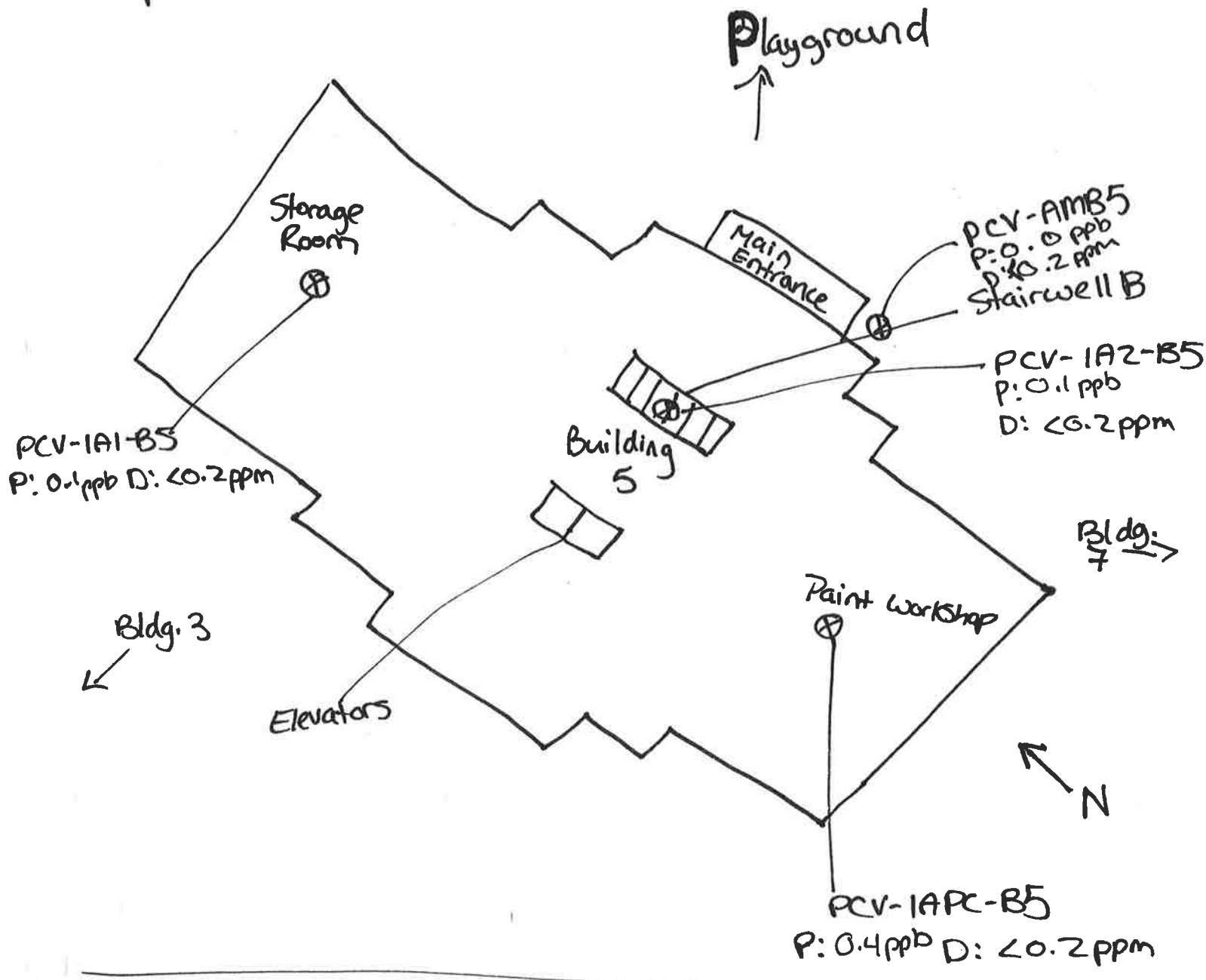
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. **Plan View**

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Notes:
- Not to Scale
- P: PID D: Drager
- All samples @ Basement level



OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.

Notes: Not to scale
P.: PID (ppb) D: Drager (ppm)
All samples @ basement level

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/12/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients	Quantity
PCV-IA1-B5 – NONE	NONE	0
PCV-IA2-B5 - NONE	NONE	0
PCV-IAPC-B5 – Paint Room (see below)		
Plaster of Paris – Dry Mix, 3.62 kg, DAP	See picture and SDS	9
Sheet Rock Brand – Joint Compound All Purpose Ready Mixed, 61.7 Lbs, USG	See picture and SDS	8
Phenoseal - Vinyl Adhesive Caulk – White, 10 fl.oz	See picture and SDS	25
Sher-CRETE concrete systems polyurea joint filter, 8.6 fl. oz, Sherman Williams	See picture and SDS	6
Commercial Coatings Super Hide Latex Flat – White Dove #306, 5 Gallons, Benjamin Moore	See picture and SDS	38
Premium Commercial Coatings Super Spec Interior Latex-Flat Finish Pastel Base, 275-1B Base Pastel, 5 Gallon, Benjamin Moore	See picture and SDS	25
Perma-White Mold and Mildew Proof-Interior Paint-Semi-gloss White, 4.92 gallon, Zinsser	See picture and SDS	40
Commercial Coatings Super Hide Latex Semi-gloss Enamel- White Dove 0006093, 5 gallon, Benjamin Moore	See picture and SDS	15
Stainless Steel Magic-Wipe-n-go Formula, 14 fl. oz, Magic	See picture and SDS	1
WD-40, 8 oz.	See picture and SDS	3
Pine-Sol-Outdoor Fresh, 28 oz.	See picture and SDS	1
Lysol Spray-Soft powder scent, 18 oz.	See picture and SDS	1

Lysol Disinfecting Spray-Spring water fall, 12.5 oz	See picture and SDS	1
Windex, 32 fl. oz	See picture and SDS	1
Hydrogen Peroxide, 15 fl. oz	See picture and SDS	1
Degreaser-Speedex, 1 quart, BETCO	See picture and SDS	2
Duration Home-Interior Acryllic Latex-Extra White-Matte, 18.1 L, Sherman Williams	See picture and SDS	6
Pigmented Primer-Sealer-White, 1Gallon, Zoom	See picture and SDS	4
Rust-oleum Painters Touch 2x Ultra cover-Gloss-Clear, 12 oz	See picture and SDS	1
Rust-oleum Painters Touch 2x Ultra cover-Gloss-Ivory, 12 oz	See picture and SDS	2
Plaster Weld Liquid Lath, 1 gallon, Larson products	See picture and SDS	1
Aura-Eggshell finish-Semi Matte, 1 gallon, Benjamin Moore	See picture and SDS	2
ProMar 2000-Zero VOC-Ultra deep base 6501-86950-Eggshell-semi-matte, 1 gallon, Sherman Williams	See picture and SDS	12
Interior Latex-Semi-gloss Finish-White 276-01, Pastel Base 276-1B, 1 gallon, Benjamin Moore	See picture and SDS	2
High Performance Super Spec-D.T.M Acrylic-Gloss Enamel-Safety Red P2821, 1 gallon, Benjamin Moore	See picture and SDS	21
Property Solution Interior Latex Semi-gloss-White B31 W 3060-6504-17413, 1 gallon, Sherman Williams	See picture and SDS	18
Harmony Interior Acrylic Latex-Extra White-Flat, 1 Gallon, Sherman Williams	See picture and SDS	4
Property Solution Interior Latex EG-SHEL-White B20 N 3050-6501-09242, 1 gallon, Sherman Williams	See picture and SDS	10

Sheffield Tints-multiple colors, 16 fl. oz	See picture and SDS	15
Minwax –Clear Aerosol Lacquer-Clear Satin, 12.25 oz	See picture and SDS	1
Cal-tint III High Strength universal tinting colorants – Multiple colors, 16 oz	See picture and SDS	25
Premium Enamel-Clear Gloss, 12 oz, ACE	See picture and SDS	26
Super Spec Interior Latex – Eggshell Finish Pastel Base C274-1B, 1 gallon, Benjamin Moore	See picture and SDS	25
Super Spec Interior Latex- Flat Finish Pastel Base 275-2B, 1 gallon, Benjamin Moore	See picture and SDS	93
Perma-White Mold and Mildew Proof-Interior Paint-Semi-gloss White, 1 gallon, Zinsser	See picture and SDS	11
Natura Waterborne Interior Paint and Primer-Zero VOC-Eggshell Base 513 2x, 1 gallon, Benjamin Moore	See picture and SDS	1
Premium Exterior Coating Moore Life-Flat Finish, Tudor Brown, 1 gallon, Benjamin Moore	See picture and SDS	4
Regent Metallics Gold Base RL260I, 1 gallon, Ralph Lauren	See picture and SDS	1
Premium Plus Interior Flat-Ultra Pure White No.1050, 1 gallon, Behr	See picture and SDS	3
Dura Seal Quick Coat 2 hour Penetrating Finish for Wood Floors-131 Ebony, 32 fl. oz, MINWAX	See picture and SDS	2
Super Hide Latex-Semi-gloss Enamel-Pastel Base 283-1B, 1 gallon, Benjamin Moore	See picture and SDS	8

Super Hide Latex Flat Base 282-1B, 1 gallon, Benjamin Moore	See picture and SDS	5
Floor and Patio Low Sheen-Latex Floor and Patio Enamel-Gray, 1 gallon, Benjamin Moore	See picture and SDS	2
Woodwise Wood Patch, 1 gallon	See picture and SDS	5
Super Spec Rust Preventative Coating-ALKYD-Semi-gloss Enamel-Ultra Base 224-4B, 1 gallon, Benjamin Moore	See picture and SDS	9
Premium Exterior Coatings-Low Luster-100%-Acrylic House Paint, Benjamin Moore	See picture and SDS	7
Universal Solvent Blend-16-395-Custom Spray, Seymour	See picture and SDS	1
Weldwood-The Original Contact Cement, 1 gallon	See picture and SDS	1
Pro-Master Paint Thinner-100% mineral spirits, 1 gallon	See picture and SDS	7
Brush Cleaner, 1 gallon, Klean Strip	See picture and SDS	3
After Wash Paint Stripper, 1 quart, Klean Strip	See picture and SDS	1
The Original Premium Paint and Finish Remover, 1 quart, Zip-Strip	See picture and SDS	1
Unlabeled silver paint cans, 1 gallon	Unknown	34
Unlabeled Dark Gray Metal 5 gallon cans	Unknown	3

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B6

Sample Location (sketch and/or description) Storage room

SEE NYSDOH sample questionnaire form

Canister # 10848 **Regulator #** 3188

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:26	-30	**undisturbed**
In Process #1**	10:30	-25	**undisturbed**
In Process #2**	12:29	-18	**undisturbed**
In Process #3**	14:27	-12	**undisturbed**
End	16:31	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 61° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:25	Drager (ppm)	<0.2
11:40	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B6

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 09819 **Regulator #** 09708

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:22	-30	**undisturbed**
In Process #1**	10:32	-24.5	**undisturbed**
In Process #2**	12:30	-16	**undisturbed**
In Process #3**	14:26	-12	**undisturbed**
End	16:34	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 62° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:30	Drager (ppm)	<0.2
11:38	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 4 Peter Cooper Road

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

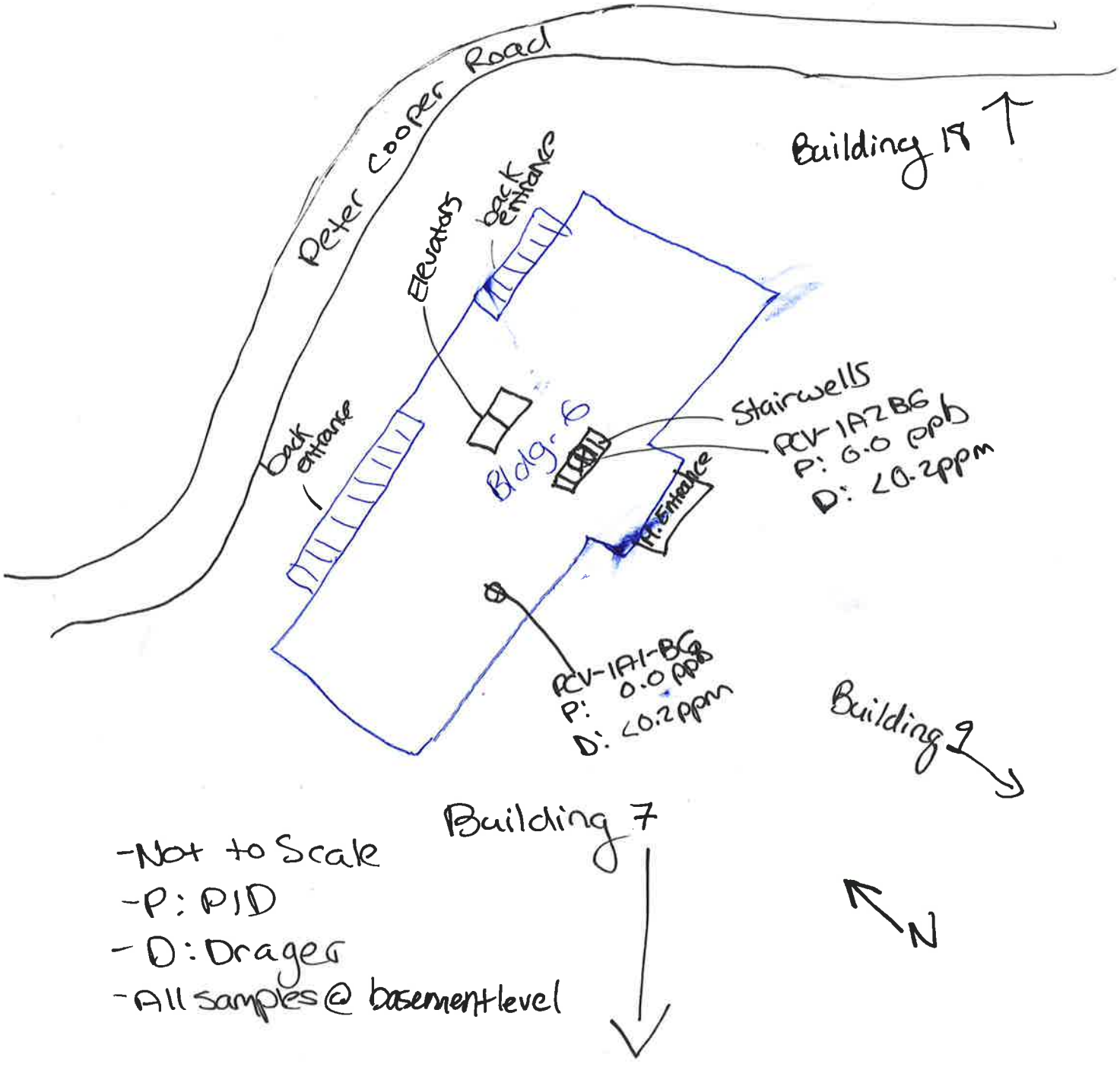
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

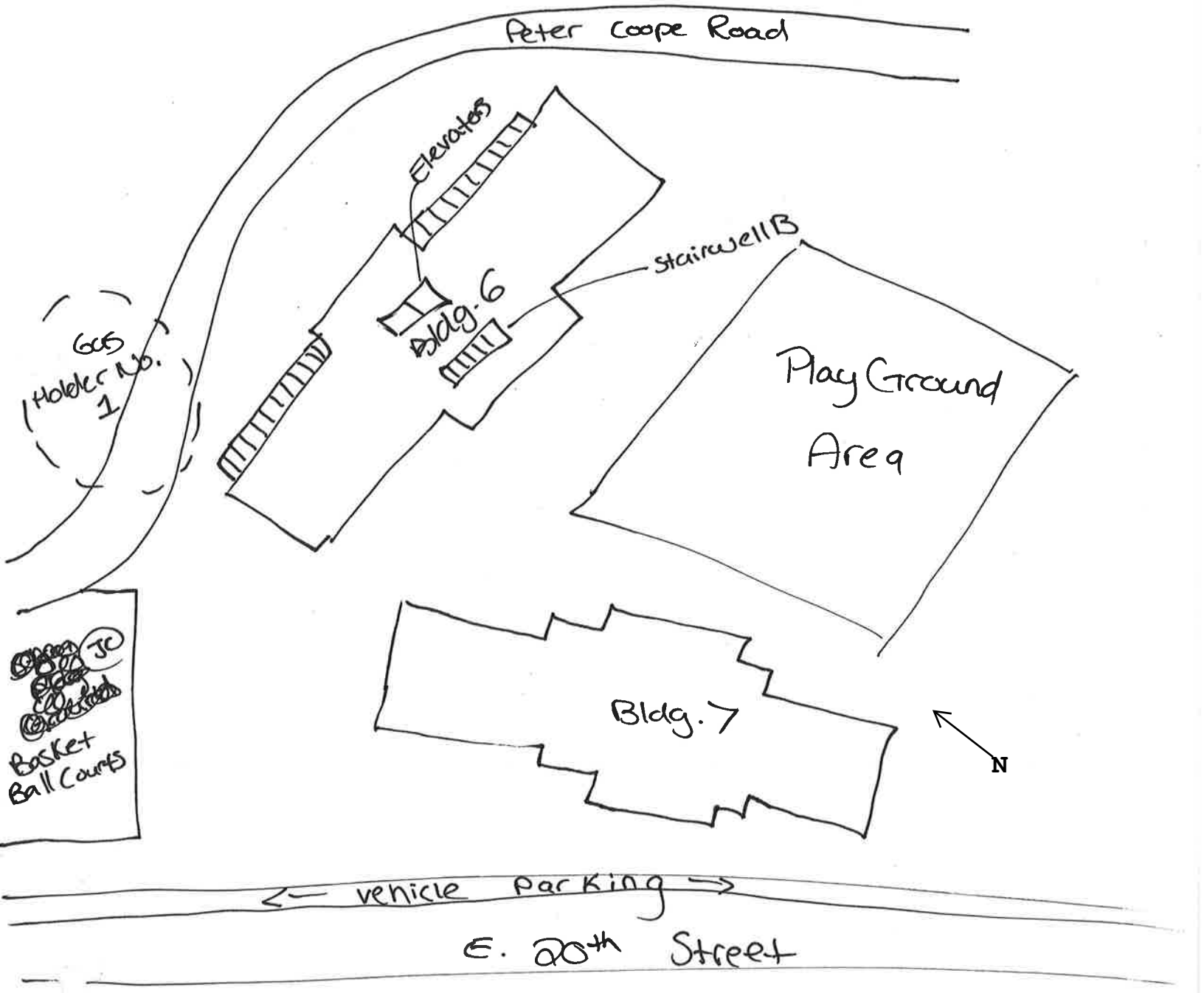


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/14/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B6 - NONE	NONE
PCV-IA2-B6 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Jessica Ehlen **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B7

Sample Location (sketch and/or description) Steam room

SEE NYSDOH sample questionnaire form

Canister # 09609 **Regulator #** 09915

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:15	-30	**undisturbed**
In Process #1**	9:58	-25.5	**undisturbed**
In Process #2**	11:37	-20	**undisturbed**
In Process #3**	14:27	-11	**undisturbed**
End	15:50	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 72° F
This sample is being redone due to only a slight pressure change when first taken on 3/12/2014.

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:55	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B7

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10187 **Regulator #** 10784

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:48	-30	**undisturbed**
In Process #1**	10:58	-24.5	**undisturbed**
In Process #2**	11:39	-20	**undisturbed**
In Process #3**	13:15	-14.5	**undisturbed**
End	16:00	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
15:30	Drager (ppm)	<0.2
13:15	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B7

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10513 **Regulator #** 09718

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:53	-30	**undisturbed**
In Process #1**	12:07	-19.5	**undisturbed**
In Process #2**	13:20	-15	**undisturbed**
In Process #3**	15:28	-8	**undisturbed**
End	16:10	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:07	Drager (ppm)	<0.2
12:07	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/12/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 511 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

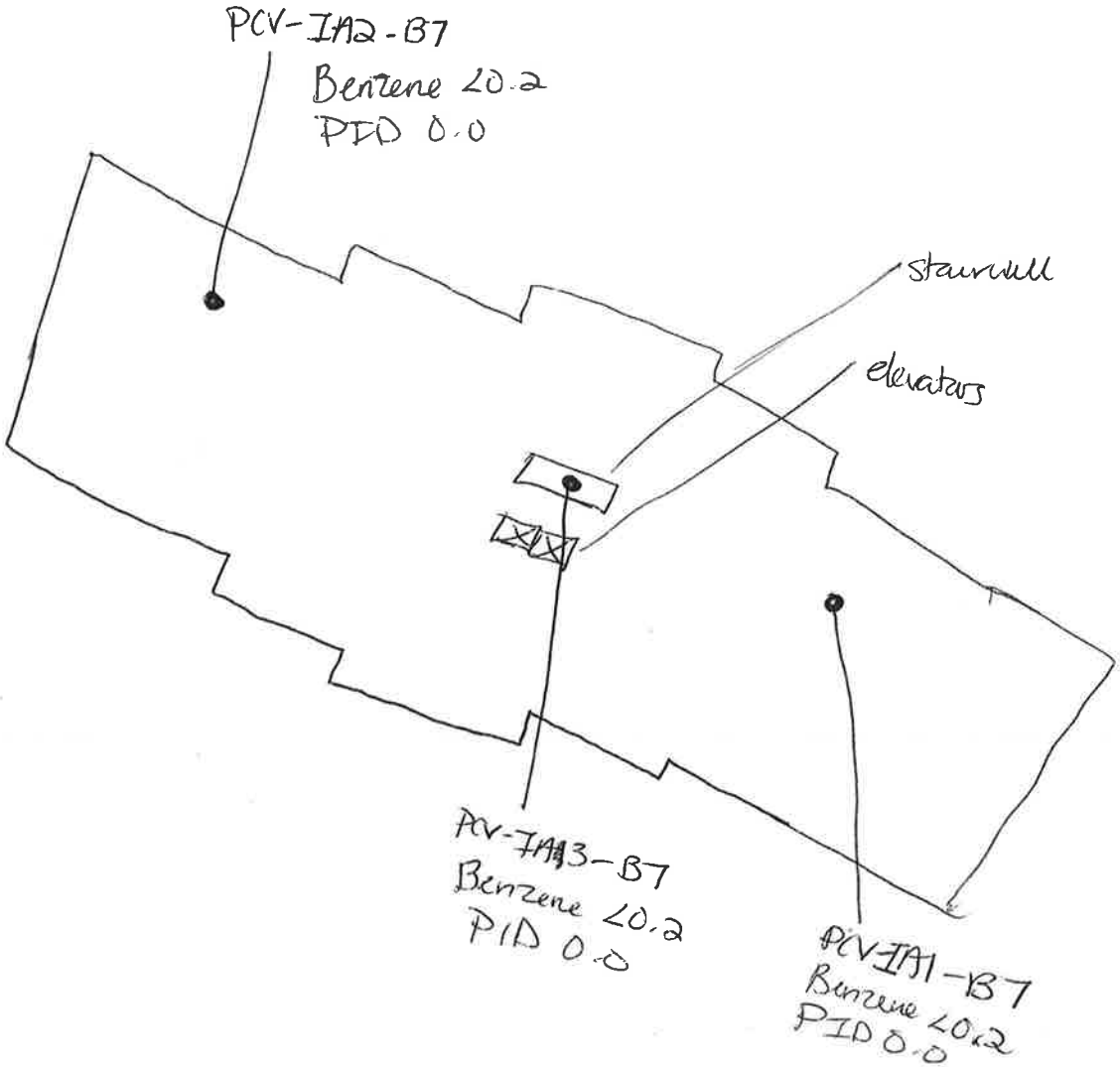
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Building 7



OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.

Building 1

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/12/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B7 - NONE	NONE
PCV-IA2-B7 - NONE	NONE
PCV-IA3-B7 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B8

Sample Location (sketch and/or description) Storage room with sump in hallway before entrance

SEE NYSDOH sample questionnaire form

Canister # 09994 **Regulator #** 10242

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:30	-30 +	**undisturbed**
In Process #1**	9:52	-28	**undisturbed**
In Process #2**	10:53	-26	**undisturbed**
In Process #3**	15:06	-12	**undisturbed**
End	16:45	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1FD-B8

Sample Location (sketch and/or description) Storage room with sump in hallway before entrance

SEE NYSDOH sample questionnaire form

Canister # 09990 **Regulator #** 10596

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:30	-28	**undisturbed**
In Process #1**	9:52	-24	**undisturbed**
In Process #2**	10:53	-21	**undisturbed**
In Process #3**	12:59	-6	**undisturbed**
End	13:15	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B8

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10005 **Regulator #** 10787

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:35	-30	**undisturbed**
In Process #1**	9:55	-25	**undisturbed**
In Process #2**	10:52	-21	**undisturbed**
In Process #3**	15:05	-9	**undisturbed**
End	16:03	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

**** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	NA
9:30	PID (ppb)	0.0

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 6 Peter Cooper Road
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

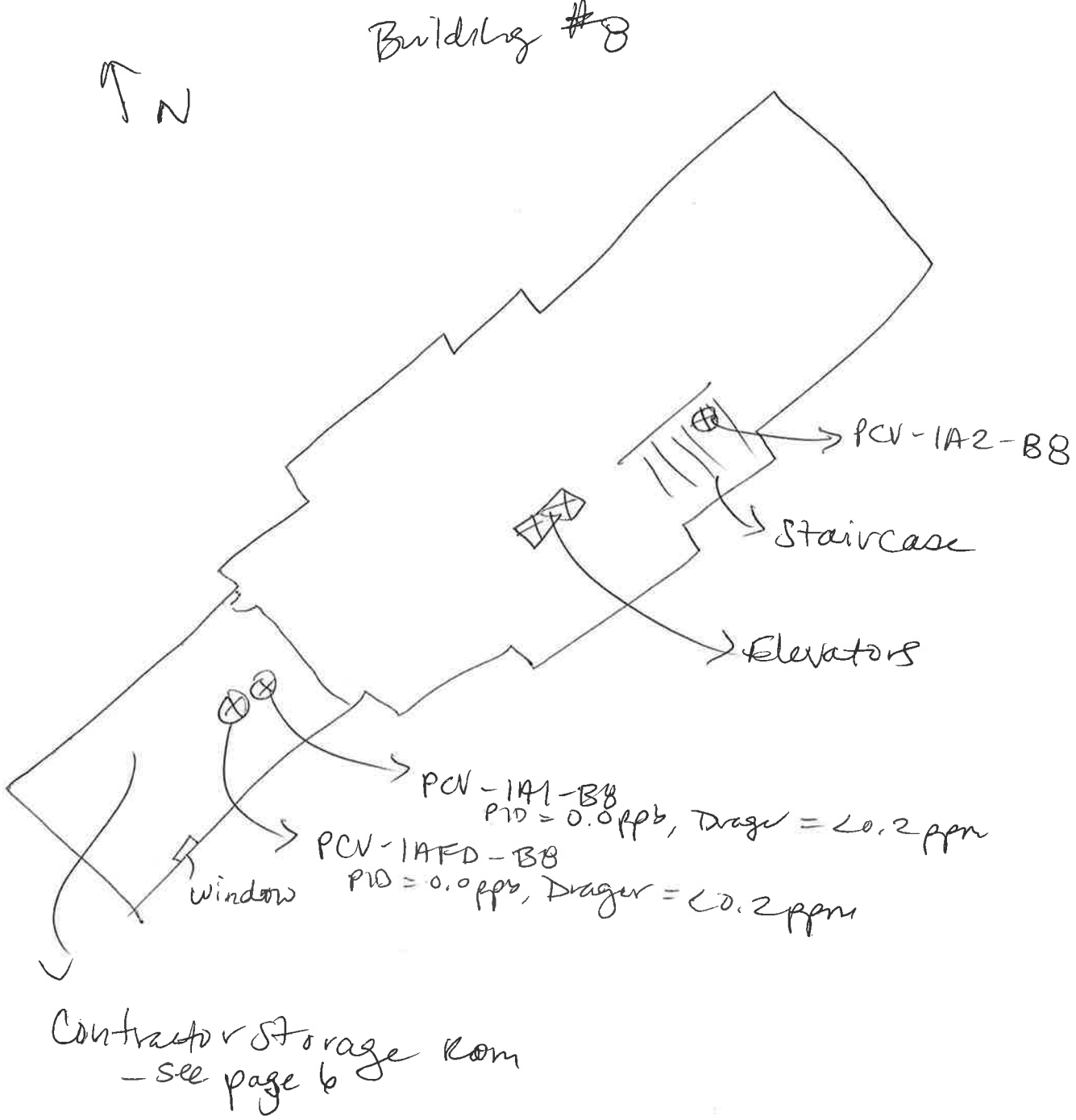
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



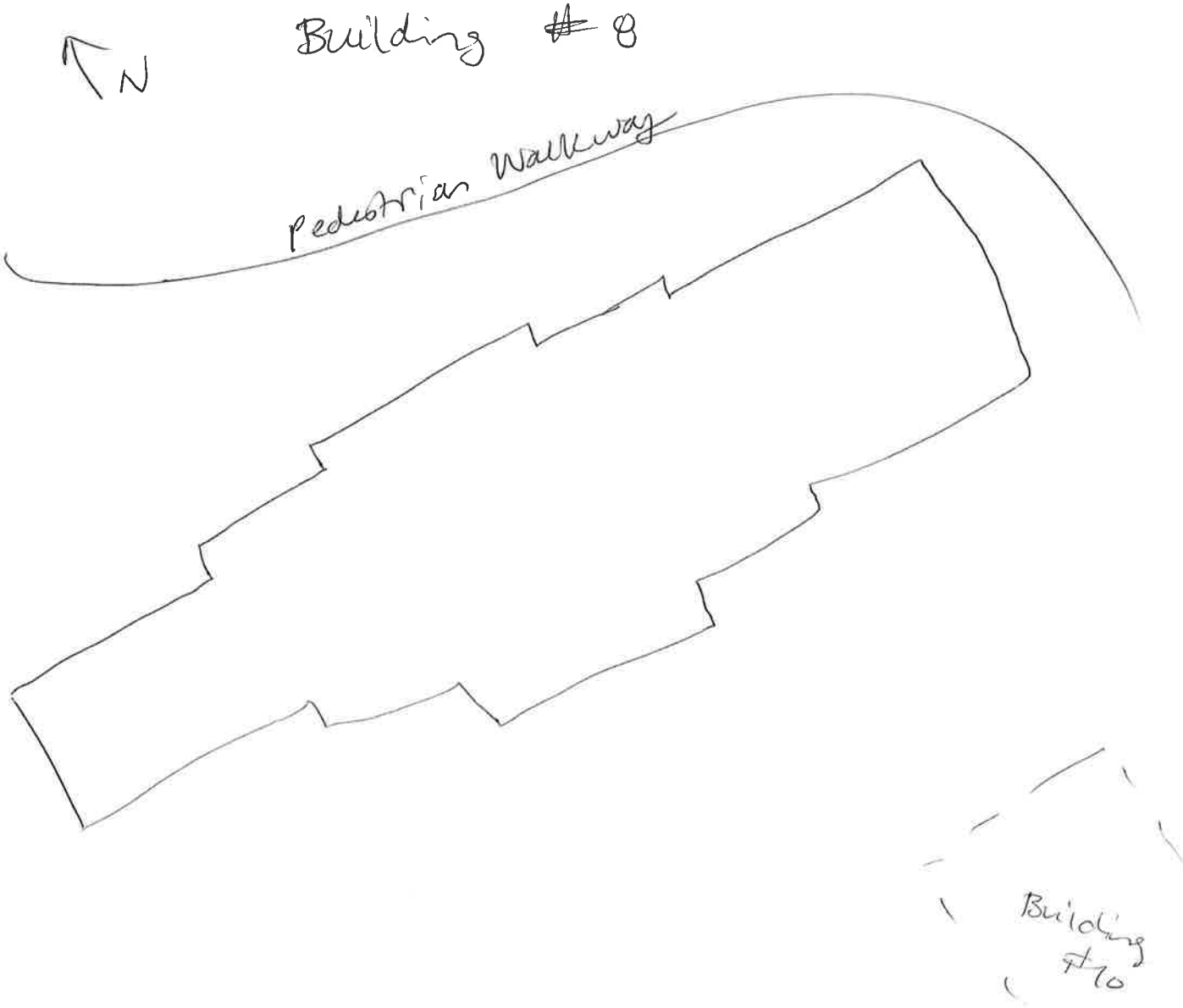
* Not to scale

OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/14/2014

Product description (dispenser, size, manufacturer)	**VOC Ingredients**	**Quantity**
PCV-IA2-B8 - NONE	NONE	0
PCV-IA1-B8/PCV-IA1FD-B8		
Silica, 100 lb. bag	See SDS	19
Prep Star Skincoat, 4-10 lb. bag	See SDS	25
Henry Floor Adhesive, 4 gallon,	See SDS	4
Koster, Corrosive, Vap 1 2000, 1.8 gallons	See SDS	75
Koster, Corrosive, Vap 1 2000, 4.2 gallon	See SDS	77
Retro-Coat (Vapor Intrusion Coating) Part A, 4 gallon	See SDS	56
Retro-Coat (Vapor Intrusion Coating) Part B, toxic, 4 gallon	See SDS	29
Duraglaze #4 cove – Rez Duraflex, 5 gallon	See SDS	11

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B9

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10238 **Regulator #** 09754

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:06	-30	**undisturbed**
In Process #1**	9:45	-25	**undisturbed**
In Process #2**	12:30	-14	**undisturbed**
In Process #3**	15:00	-8	**undisturbed**
End	16:19	-2	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:30	Drager (ppm)	<0.2
11:30	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1FD-B9

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 11047 **Regulator #** 09706

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:04	-30	**undisturbed**
In Process #1**	11:21	-19	**undisturbed**
In Process #2**	13:31	-11	**undisturbed**
In Process #3**	15:03	-8	**undisturbed**
End	16:17	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
9:25	Drager (ppm)	<0.2
9:25	PID (ppb)	0.2

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B9

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10580 **Regulator #** 11239

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:00	-30	**undisturbed**
In Process #1**	9:40	-26	**undisturbed**
In Process #2**	13:27	-12	**undisturbed**
In Process #3**	14:59	-9.5	**undisturbed**
End	16:17	-3	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
9:38	Drager (ppm)	<0.2
9:38	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 531 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

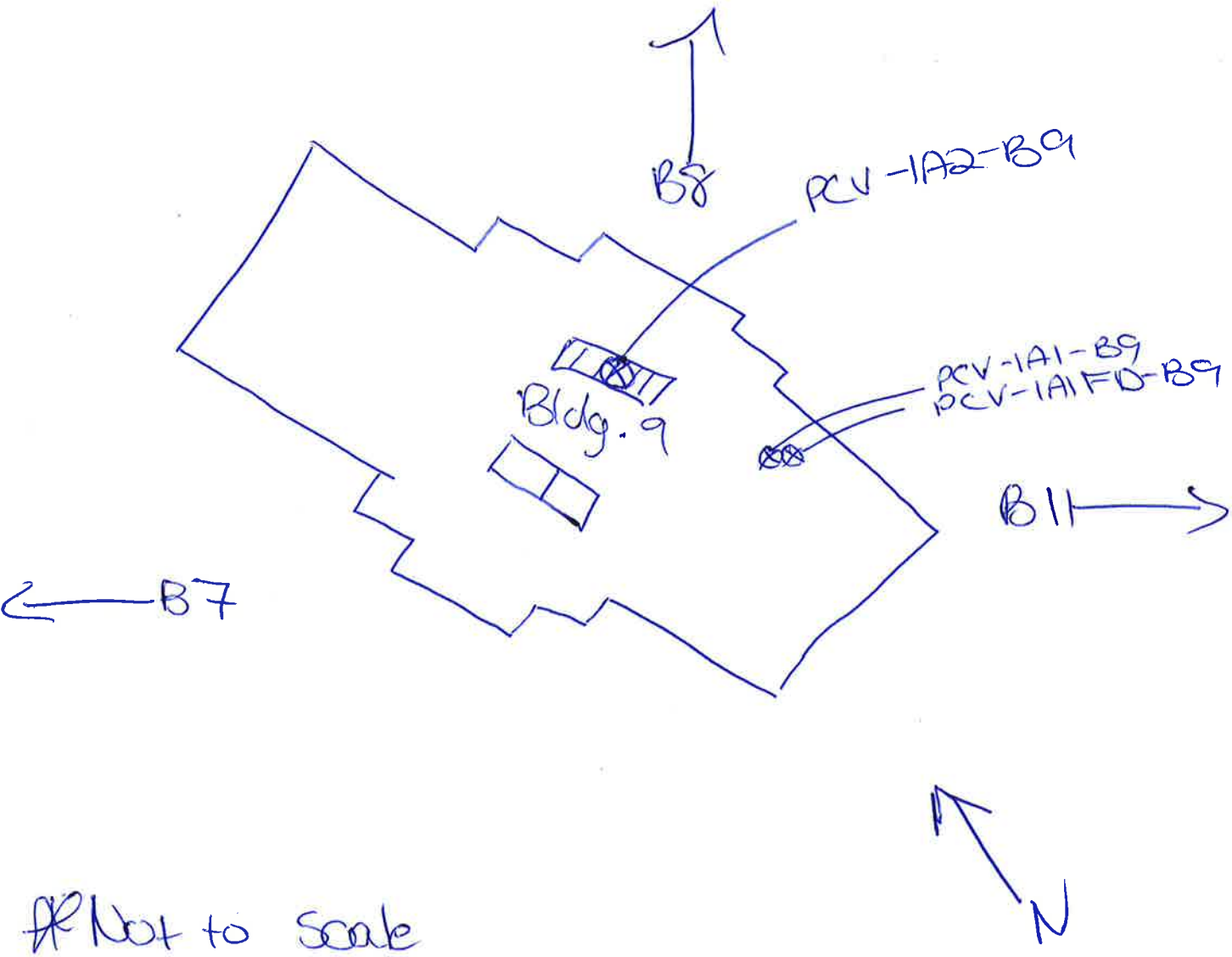
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

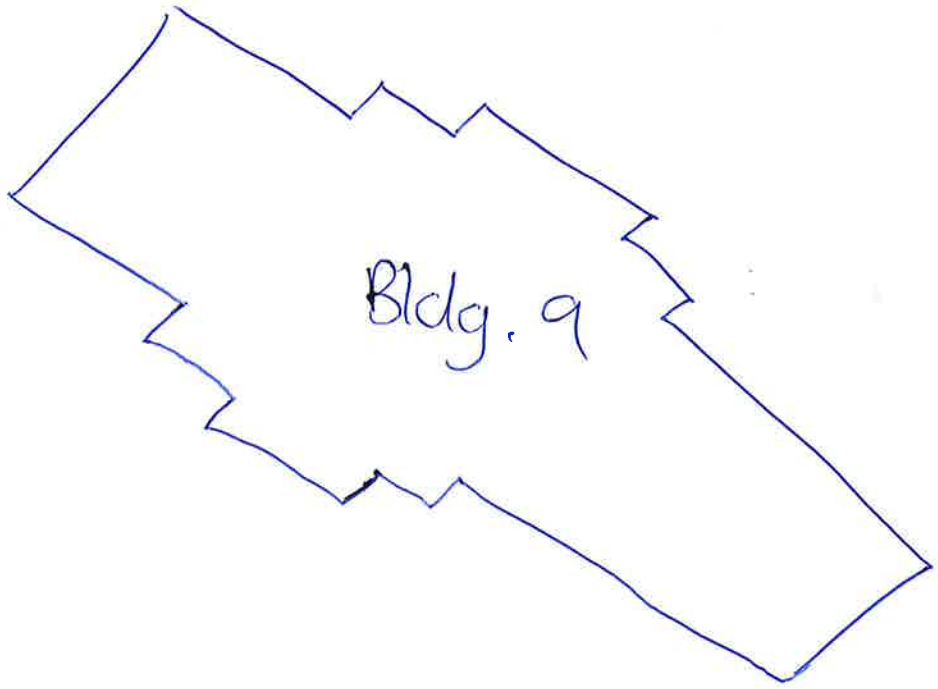


OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/14/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B9 - NONE	NONE
PCV-IA1FD-B9 - NONE	NONE
PCV-IA2-B9 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Sara Meisnner **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-IA1-B10

Sample Location (sketch and/or description) Storage room with windows stored in it

SEE NYSDOH sample questionnaire form

Canister # 09597 **Regulator #** 10658

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:27	-28	**undisturbed**
In Process #1**	10:15	-24	**undisturbed**
In Process #2**	12:45	-18	**undisturbed**
In Process #3**	14:30	-10	**undisturbed**
End	16:15	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

**** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
12:20	PID (ppb)	0.3

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B10

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10178 **Regulator #** K101

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:36	-30	**undisturbed**
In Process #1**	11:00	-18	**undisturbed**
In Process #2**	12:45	-10	**undisturbed**
In Process #3**	13:30	-8	**disturbed**
End	14:00	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: At 13:40 workers sprayed cleaner with VOC containing chemicals throughout room.

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
12:34	PID (ppb)	0.4

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B10

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 11040 **Regulator #** K354

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:40	-30	**undisturbed**
In Process #1**	11:00	-21	**undisturbed**
In Process #2**	13:30	-13	**undisturbed**
In Process #3**	14:30	-10	**disturbed**
End	16:15	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: At 13:45 workers sprayed cleaner with VOC containing chemicals over stairwell.

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
12:25	PID (ppb)	0.3

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1ALC-B10

Sample Location (sketch and/or description) Main Lobby

SEE NYSDOH sample questionnaire form

Canister # 09595 **Regulator #** K455

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:46	-30	**undisturbed**
In Process #1**	11:00	-24	**undisturbed**
In Process #2**	13:30	-15	**undisturbed**
In Process #3**	14:30	-12	**undisturbed**
End	16:30	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

**** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
12:31	PID (ppb)	0.2

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/10/14

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 8 Peter Cooper Road
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

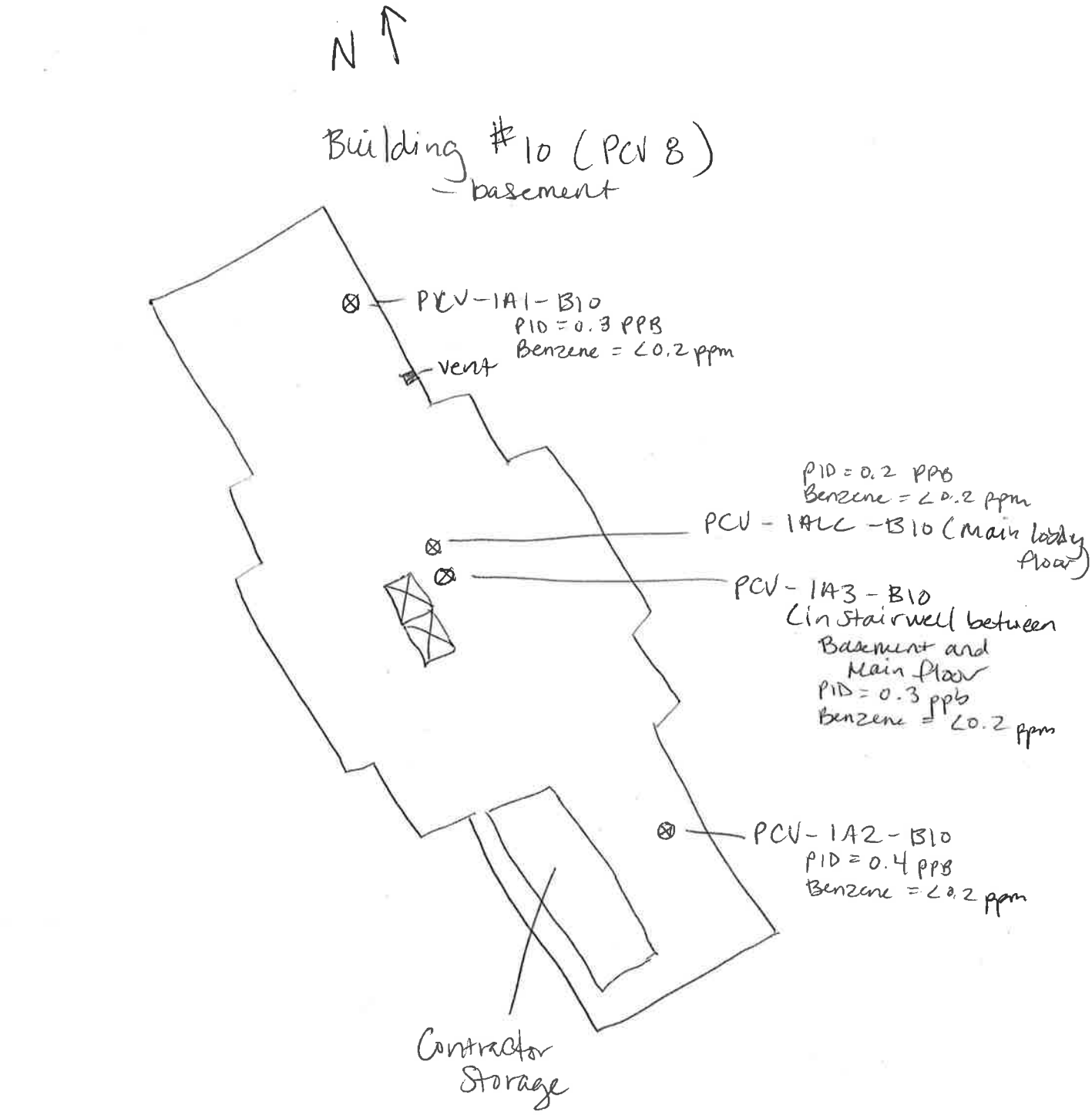
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



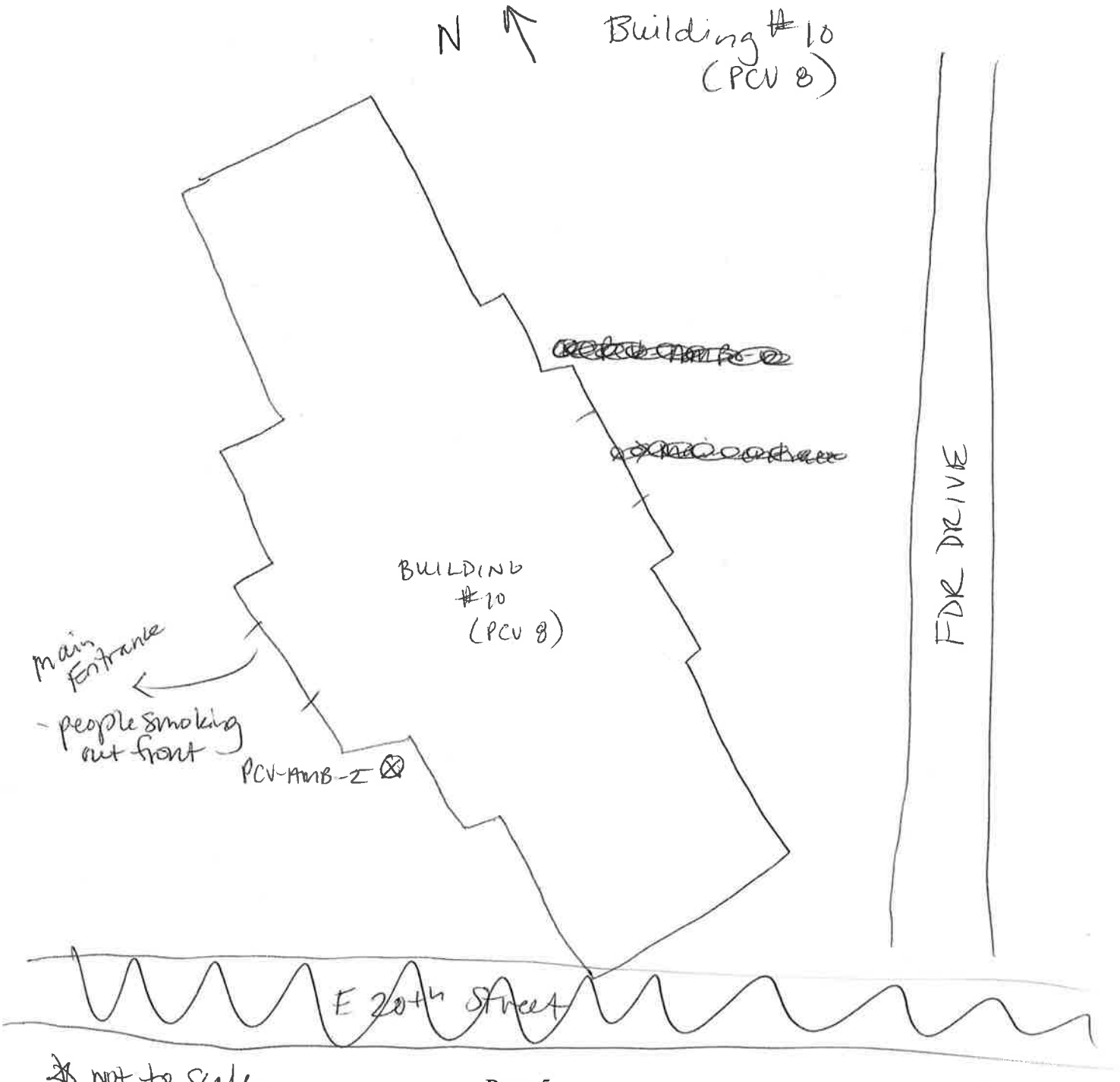
* NOT to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/10/2014

Product description (dispenser, size, manufacturer)	**VOC Ingredients**	**Quantity**
PCV-IA1-B10		
Laticrete – 1600 unsanded grout, 5gallon bag	See SDS	2
Sheetrock – Lightweight All Purpose Joint Compound, 4.5 gallon bucket	See SDS	6
Sakrete – Mortar/Stullo Mix, 80 lb bag	See SDS	2
Mapei – Ultraplan M20 Plus Concrete, 50 lb bag	See SDS	6
Micro-Lok HP – Fiberglass Pipe Installation, 3’ x 2’ box	See SDS	22
PCV-IA2-B10 – Fabuloso in room	See SDS	unknown
PCV-IA3-B10 – Bleach in the staircase	See SDS	unknown

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B11

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 09761 **Regulator #** 10861

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:33	-30	**undisturbed**
In Process #1**	9:50	-27	**undisturbed**
In Process #2**	12:17	-16.5	**undisturbed**
In Process #3**	13:32	-13	**undisturbed**
End	16:34	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
NA	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B11

Sample Location (sketch and/or description) Steam room

SEE NYSDOH sample questionnaire form

Canister # 10327 **Regulator #** 10595

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:33	-28.5	**undisturbed**
In Process #1**	9:47	-24.5	**undisturbed**
In Process #2**	11:35	-19.5	**undisturbed**
In Process #3**	13:35	-12	**undisturbed**
End	16:32	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
NA	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B11

Sample Location (sketch and/or description) Steam room

SEE NYSDOH sample questionnaire form

Canister # 09509 **Regulator #** 00660

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:36	-30	**undisturbed**
In Process #1**	9:53	-25.5	**undisturbed**
In Process #2**	11:25	-22	**undisturbed**
In Process #3**	13:39	-16	**undisturbed**
End	16:30	-10	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
NA	PID (ppb)	0.0

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/12/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 541 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

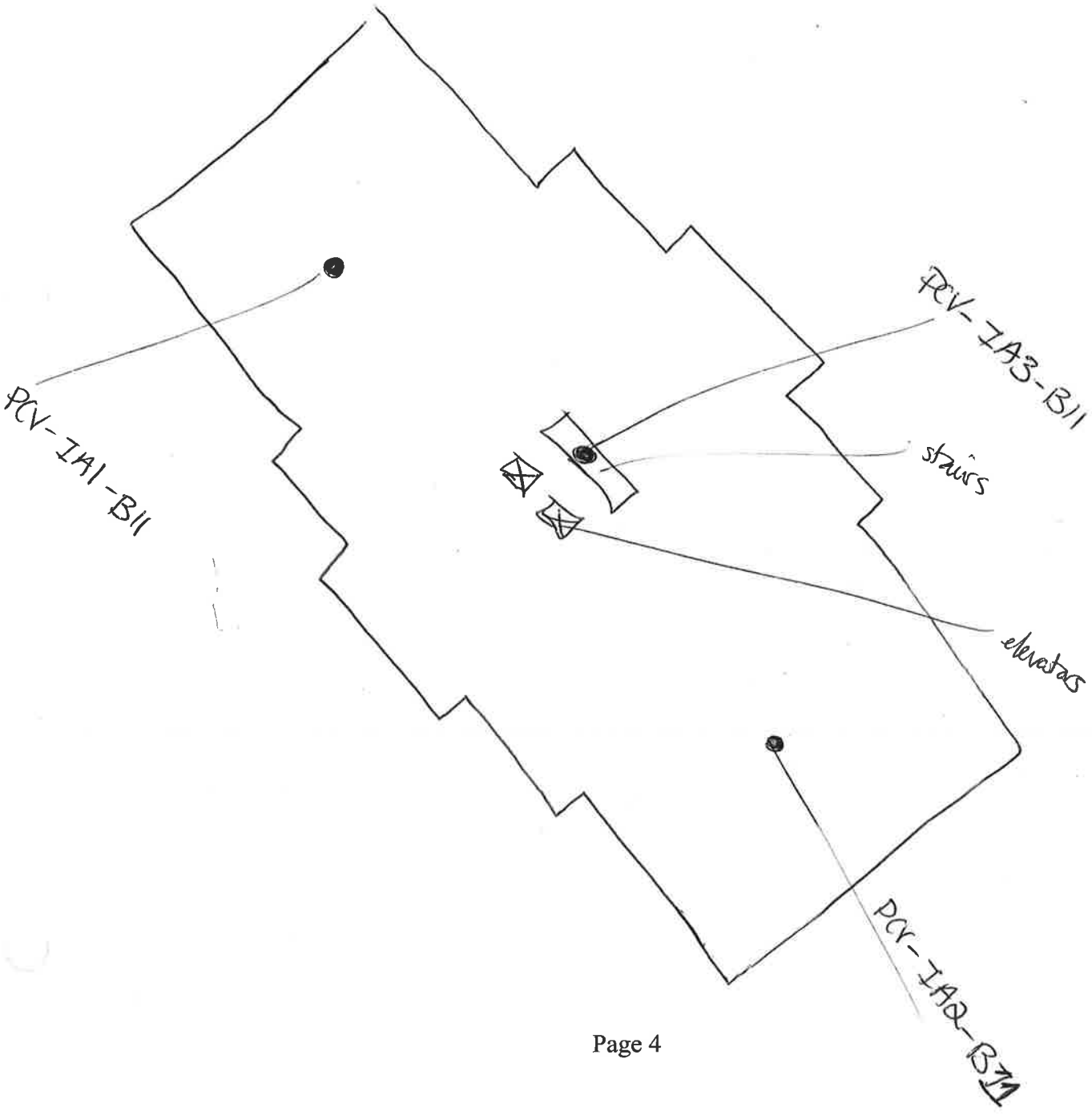
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Building 11

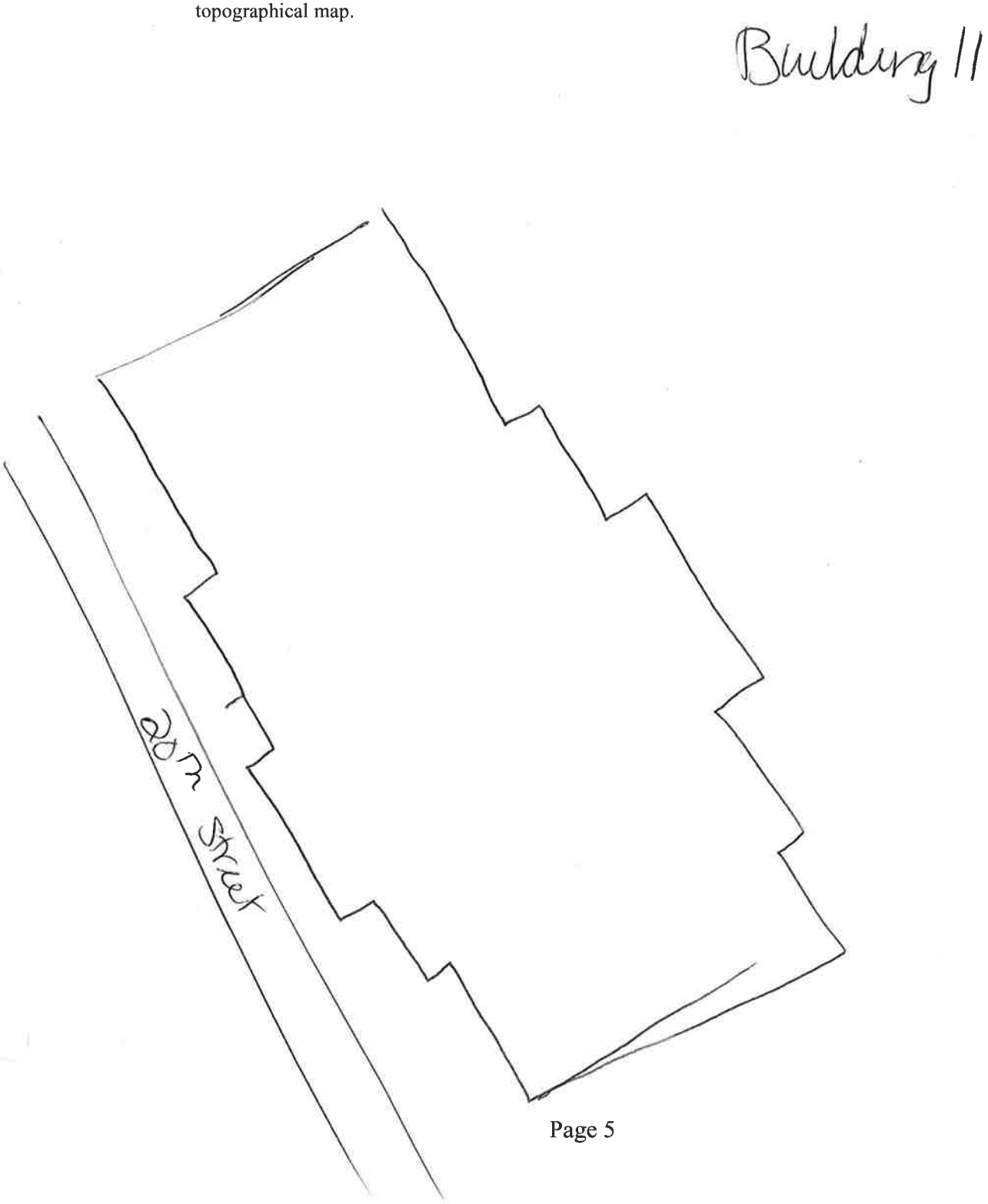


OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/12/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
PCV-IA1-B11	
Perma-white Mold and Mildew Proof Paint – Semi-gloss, 4.9 Gallon Can, Zinsser	See SDS
Unknown closed 5 gallon bucket	unknown
Enviro-chem High Performance Clearing Chemicals Permacoat Sealer	Diethylene, Glycol, Methyl-ether, ethylene, copol water
PCV-IA2-B11	
WD-40, 8 oz. can	See SDS
Spray Rite All Purpose Spray Adhesive, 10 oz. can	See SDS

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B12

Sample Location (sketch and/or description) Storage area

SEE NYSDOH sample questionnaire form

Canister # 10001 **Regulator #** 10879

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:16	-30	**undisturbed**
In Process #1**	10:38	-19	**undisturbed**
In Process #2**	12:16	-13	**undisturbed**
In Process #3**	13:11	-9	**undisturbed**
End	14:24	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:55	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B12

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10729 **Regulator #** 10619

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:00	-30	**undisturbed**
In Process #1**	10:36	-19	**undisturbed**
In Process #2**	12:14	-11	**undisturbed**
In Process #3**	13:14	-7	**undisturbed**
End	13:50	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:56	PID (ppb)	0.2

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B12

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 34000495 **Regulator #** 09713

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:10	-30	**undisturbed**
In Process #1**	10:37	-22	**undisturbed**
In Process #2**	12:15	-16	**undisturbed**
In Process #3**	13:57	-11	**undisturbed**
End	15:19	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:54	PID (ppb)	0.1

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/12/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 601 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

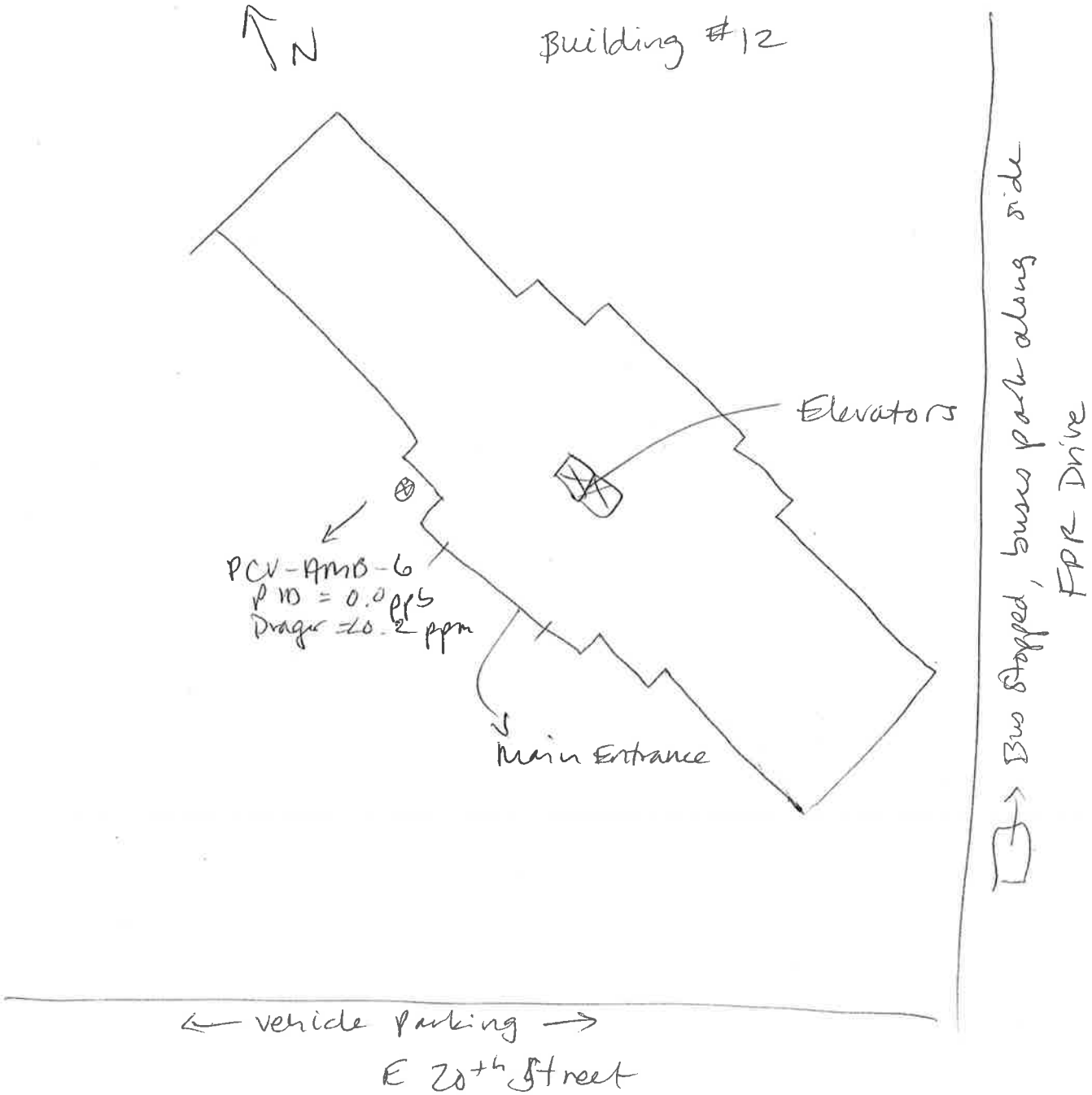
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/12/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B12 – NONE	NONE
PCV-IA2-B12 – NONE	NONE
PCV-IA3-B12 – NONE	NONE
PCV-AMB6 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B13

Sample Location (sketch and/or description) Crawl space behind laundry room

SEE NYSDOH sample questionnaire form

Canister # 10578 **Regulator #** 10698

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:55	-30	**undisturbed**
In Process #1**	11:15	-20	**undisturbed**
In Process #2**	13:10	-12	**undisturbed**
In Process #3**	14:30	-6	**undisturbed**
End	15:06	-3	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:15	PID (ppb)	0.1

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B13

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10332 **Regulator #** 10653

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:00	-29	**undisturbed**
In Process #1**	11:16	-22	**undisturbed**
In Process #2**	13:11	-15	**undisturbed**
In Process #3**	15:12	-8	**undisturbed**
End	16:10	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:19	PID (ppb)	0.9

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B13

Sample Location (sketch and/or description) Crawl space behind laundry room

SEE NYSDOH sample questionnaire form

Canister # 09675 **Regulator #** 10293

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:05	-30	**undisturbed**
In Process #1**	11:17	-22	**undisturbed**
In Process #2**	13:11	-15	**undisturbed**
In Process #3**	15:13	-9	**undisturbed**
End	16:14	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:17	PID (ppb)	0.5

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 390 First Avenue
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

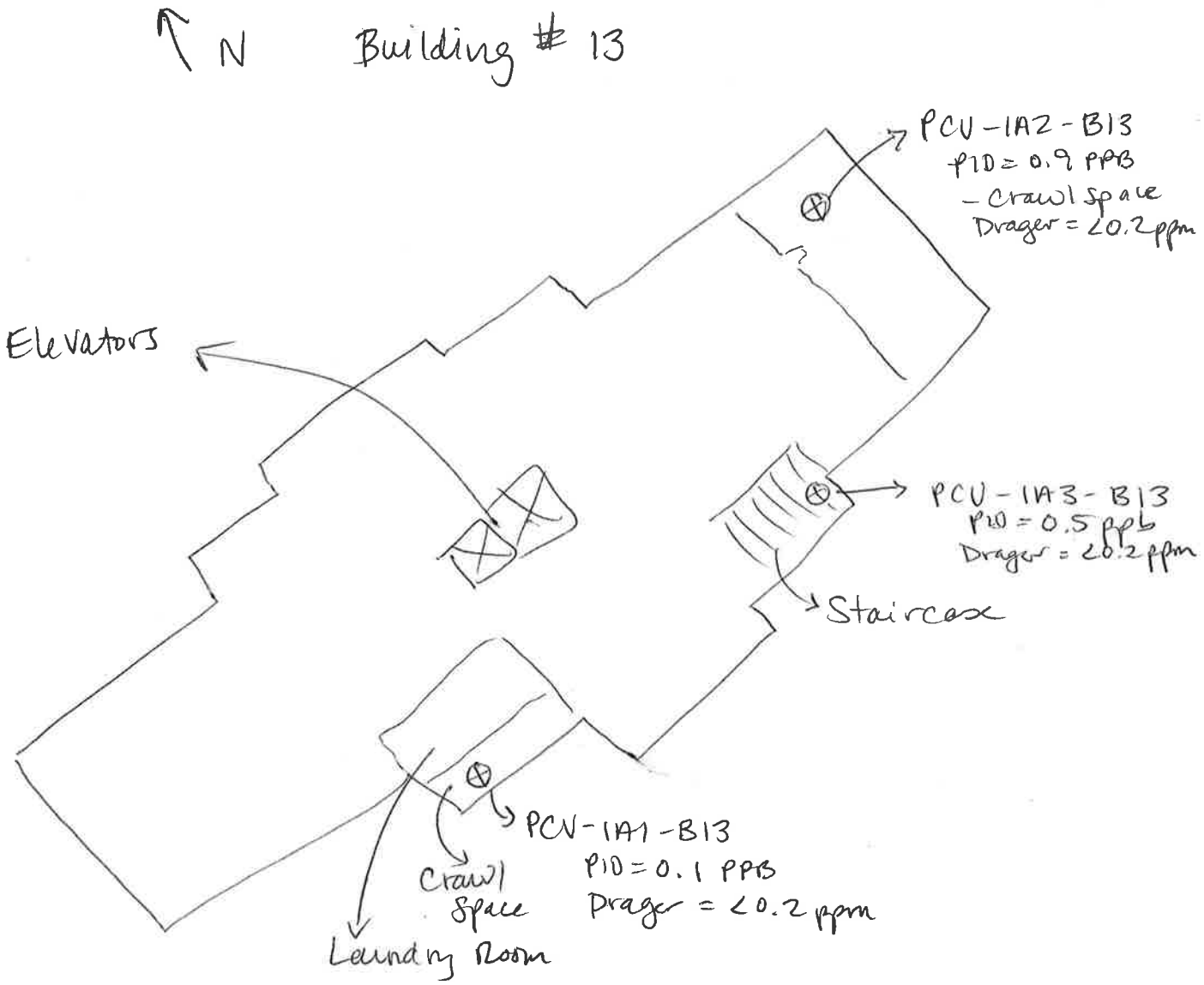
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



* Not to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/11/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B13 – NONE	NONE
PCV-IA2-B13 – NONE	NONE
PCV-IA3-B13 – NONE	NONE
PCV-AMB3 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B14

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 09820 **Regulator #** 10057

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:20	-28	**undisturbed**
In Process #1**	11:24	-22	**undisturbed**
In Process #2**	13:14	-17	**undisturbed**
In Process #3**	14:37	-12	**undisturbed**
End	16:35	-7	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:24	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1FD-B14

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10716 **Regulator #** 10082

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:20	-30	**undisturbed**
In Process #1**	11:24	-24	**undisturbed**
In Process #2**	13:14	-18	**undisturbed**
In Process #3**	15:55	-8	**undisturbed**
End	16:35	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:24	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B14

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10542 **Regulator #** 09559

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:25	-30	**undisturbed**
In Process #1**	11:26	-23	**undisturbed**
In Process #2**	13:15	-18	**undisturbed**
In Process #3**	14:38	-13	**undisturbed**
End	16:42	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:26	PID (ppb)	0.0

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/11/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 370 First Avenue
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

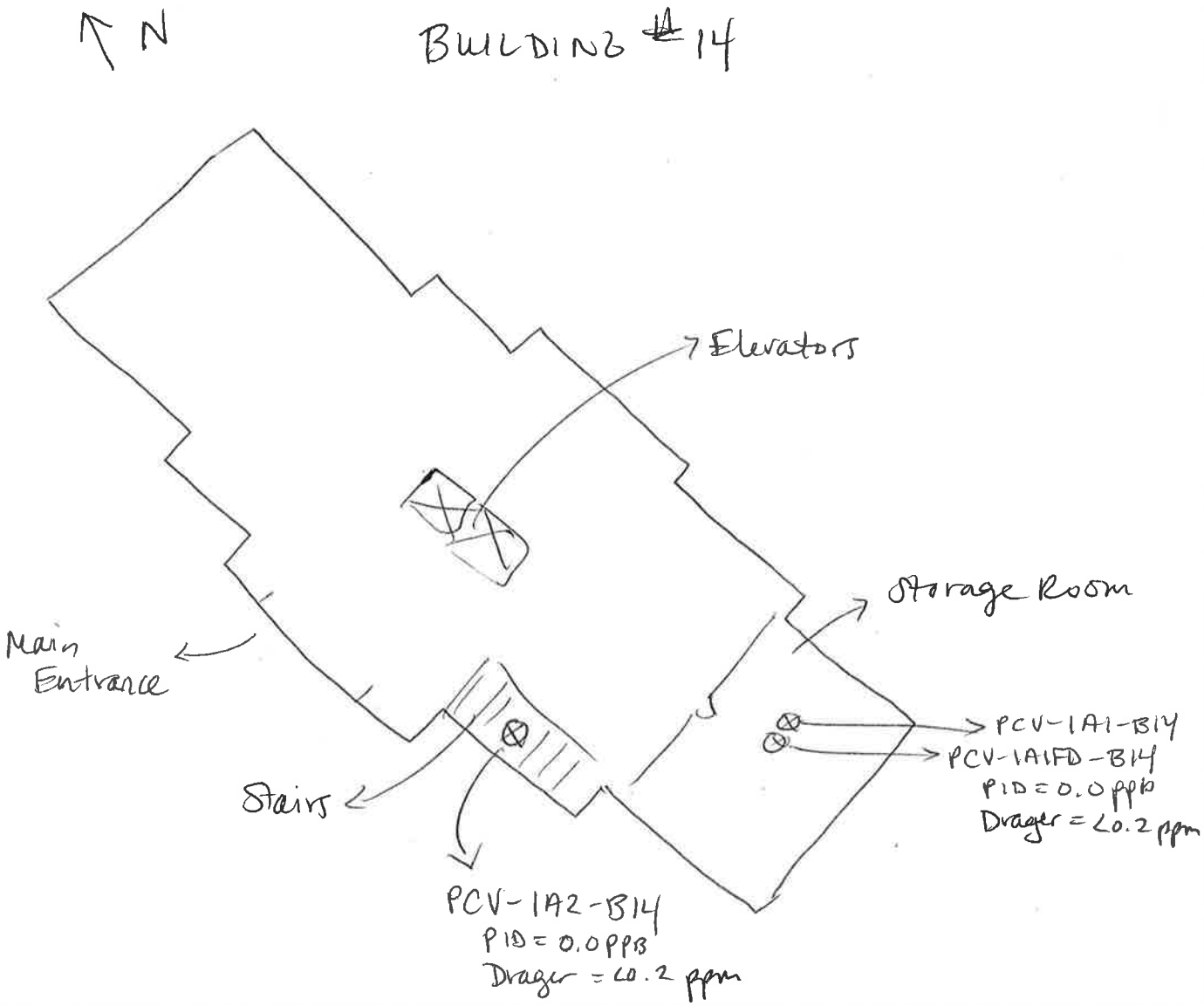
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



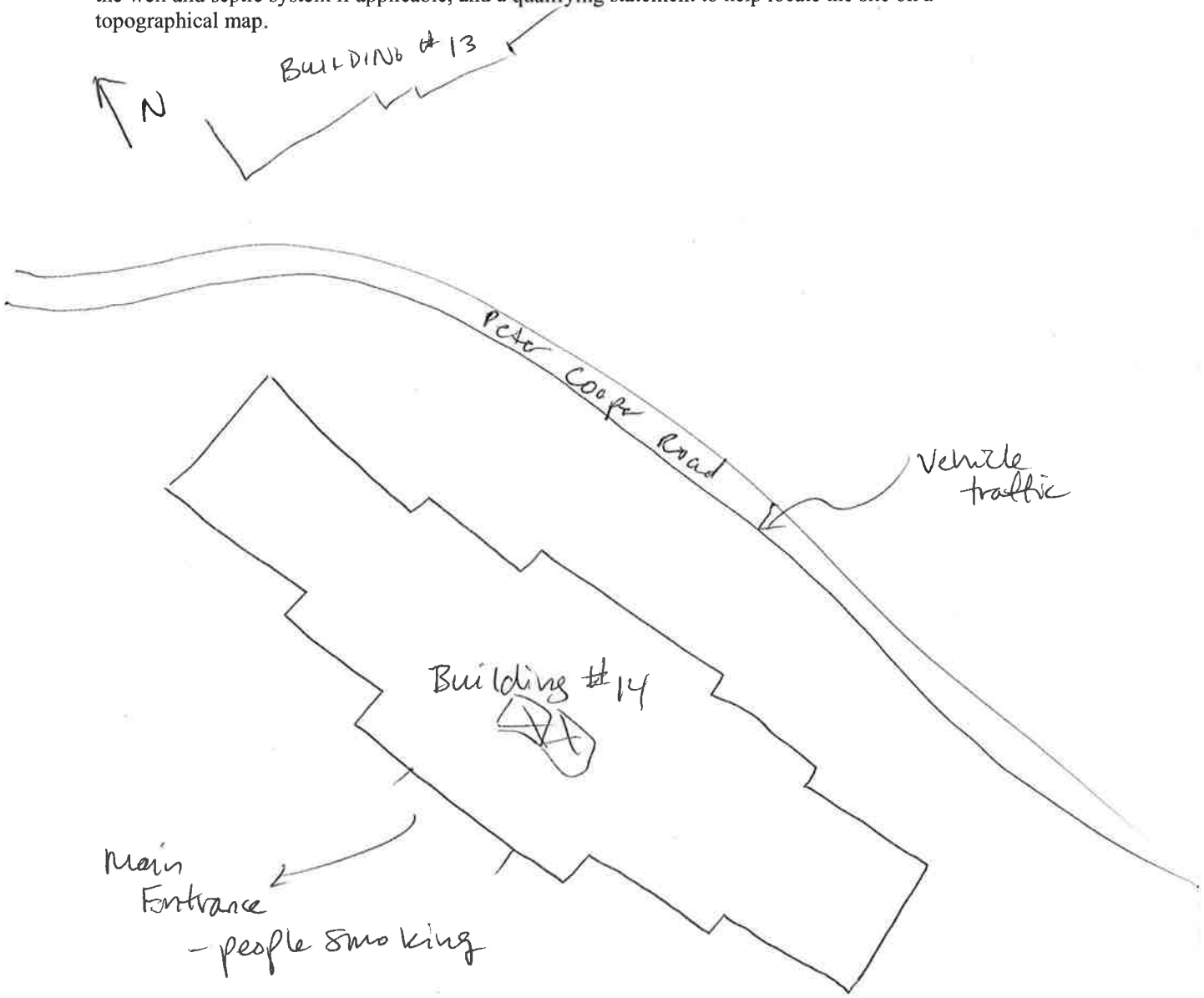
* Not to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



* not to scale, no ambient air sample taken

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/11/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B14 – NONE	NONE
PCV-IA1FD-B14 – NONE	NONE
PCV-IA2-B14 – NONE	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B15

Sample Location (sketch and/or description) Storage room with maintenance equipment and holiday decorations.

SEE NYSDOH sample questionnaire form

Canister # 09629 **Regulator #** 3713

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:48	-30	**undisturbed**
In Process #1**	10:43	-25	**undisturbed**
In Process #2**	12:10	-21.5	**undisturbed**
In Process #3**	14:46	-10	**undisturbed**
End	16:10	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:09	Drager (ppm)	<0.2
11:28	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B15

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 09534 **Regulator #** 4056

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:59	-30	**undisturbed**
In Process #1**	10:47	-26	**undisturbed**
In Process #2**	12:12	-21	**undisturbed**
In Process #3**	14:45	-15	**undisturbed**
End	16:16	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 74° F

Ejector pit in the room

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:12	Drager (ppm)	<0.2
11:29	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B15

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10778 **Regulator #** 3786

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:50	-30	**undisturbed**
In Process #1**	10:41	-25	**undisturbed**
In Process #2**	12:13	-21	**undisturbed**
In Process #3**	14:44	-12.5	**undisturbed**
End	16:20	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 74° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:19	Drager (ppm)	<0.2
11:31	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 420 East 23rd Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

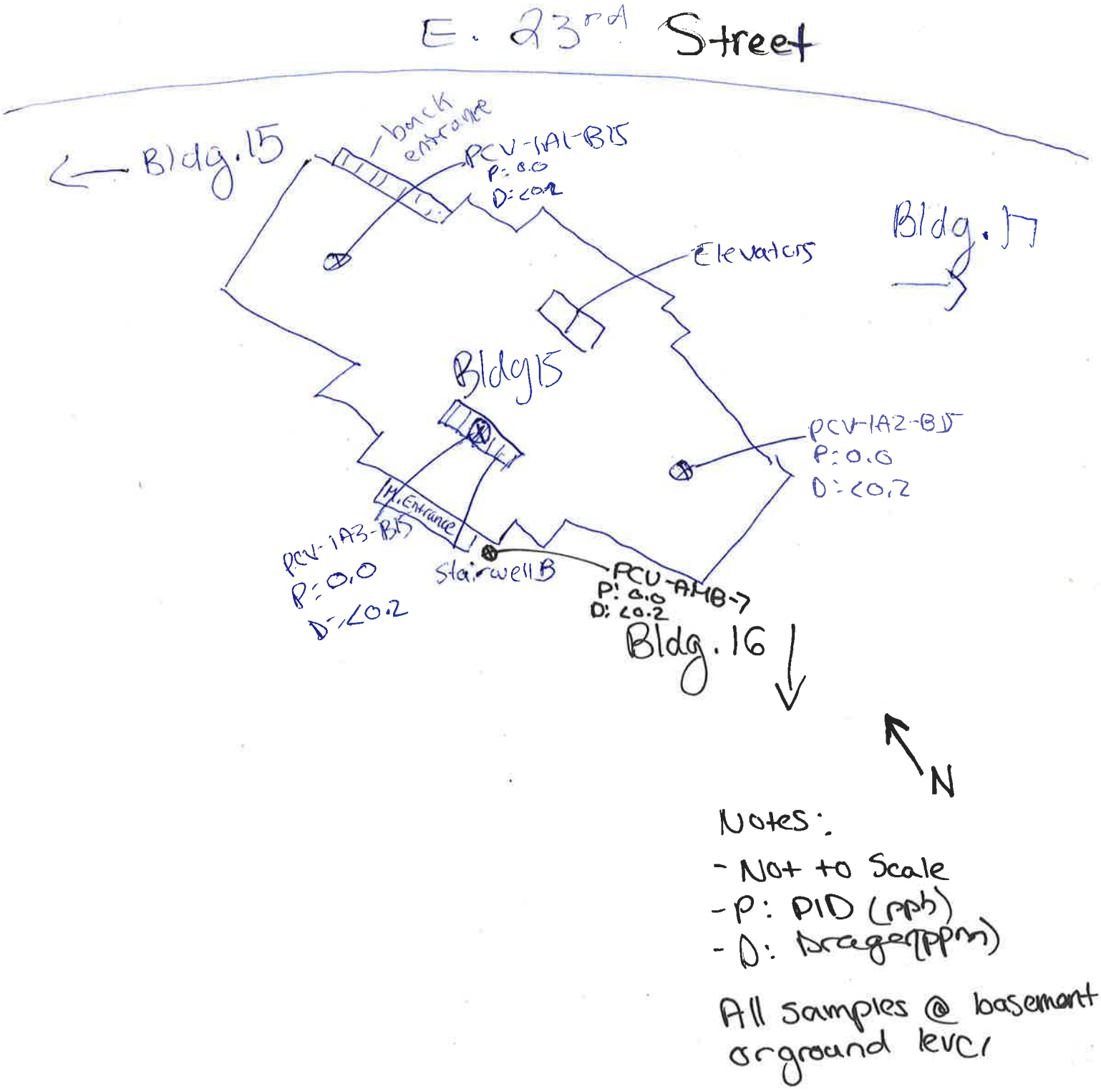
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

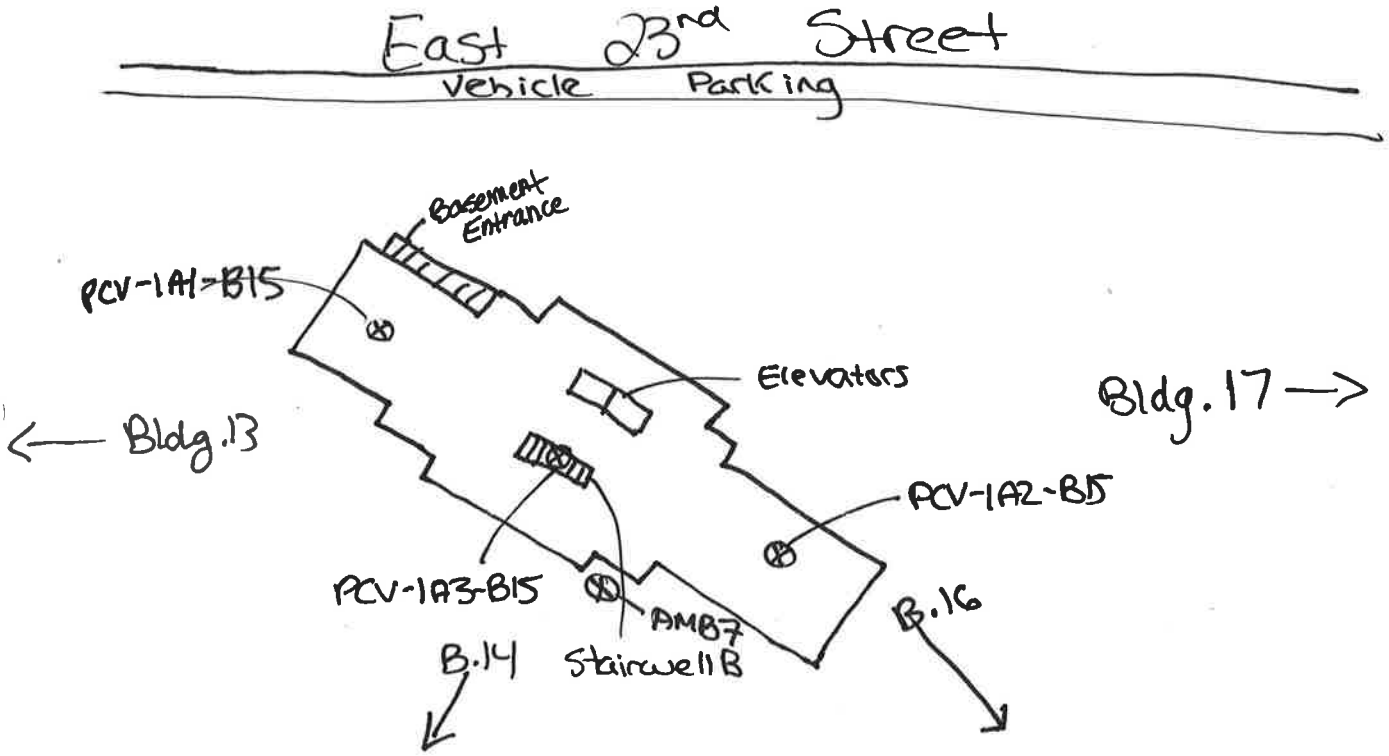


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/14/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B15 – NONE	NONE
PCV-IA2-B15 – NONE	NONE
PCV-IA3-B15 – NONE	NONE
PCV-AMB 7	NONE

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B16

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10369 **Regulator #** 10361

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:19	-30	**undisturbed**
In Process #1**	10:38	-25	**undisturbed**
In Process #2**	11:40	-22	**undisturbed**
In Process #3**	14:27	-11	**undisturbed**
End	16:42	-5.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:22	Drager (ppm)	<0.2
11:25	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B16

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10806 **Regulator #** 10853

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:11	-30	**undisturbed**
In Process #1**	11:40	-22	**undisturbed**
In Process #2**	14:27	-11	**undisturbed**
In Process #3**	15:45	-8	**undisturbed**
End	16:30	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:45	Drager (ppm)	<0.2
11:40	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B16

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10536 **Regulator #** 10358

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:16	-30	**undisturbed**
In Process #1**	11:31	-24	**undisturbed**
In Process #2**	14:23	-13	**undisturbed**
In Process #3**	15:44	-9	**undisturbed**
End	16:35	-6.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:35	Drager (ppm)	<0.2
11:34	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/10/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 3 Peter Cooper Road

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

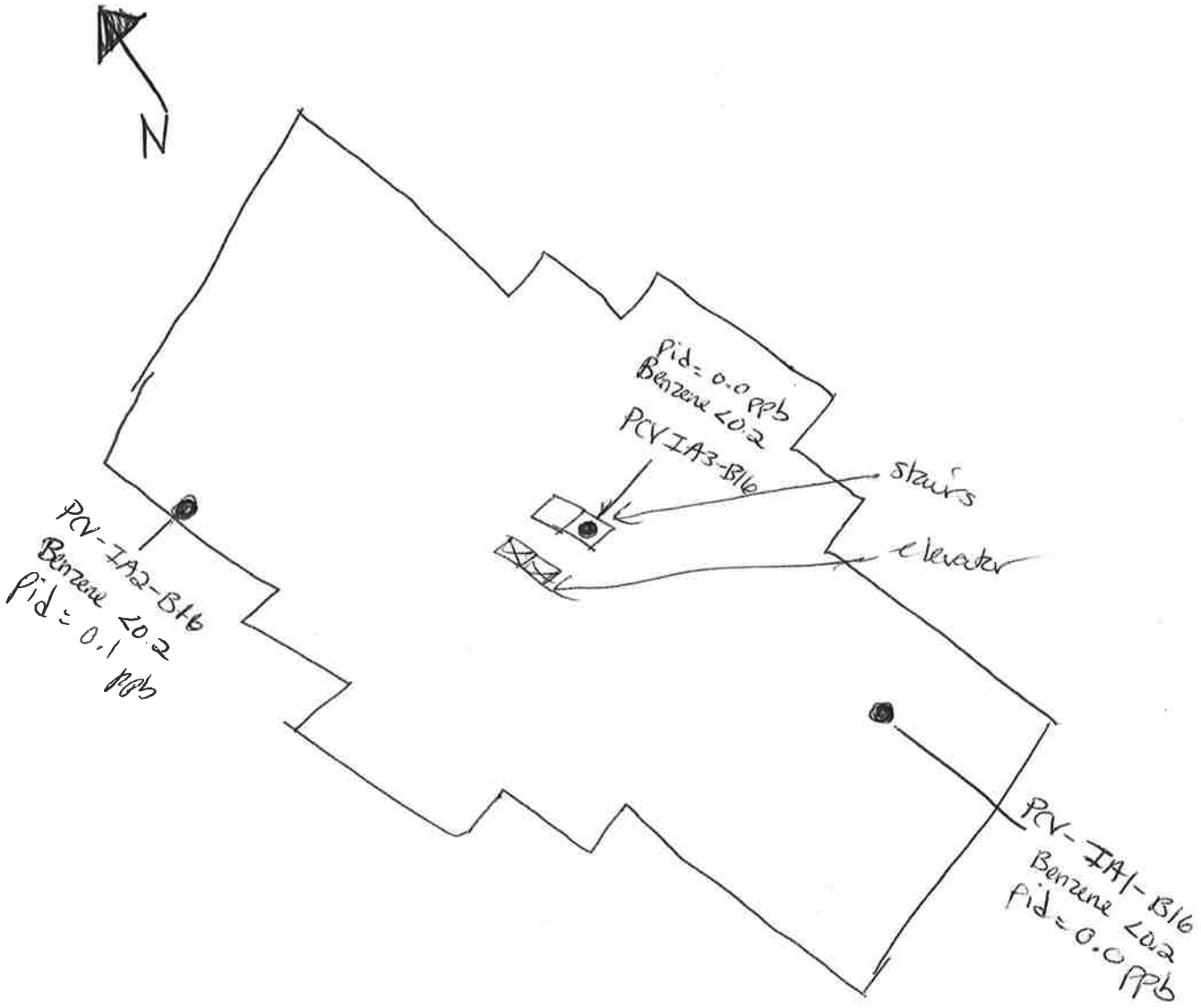
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Building #16



Notes:

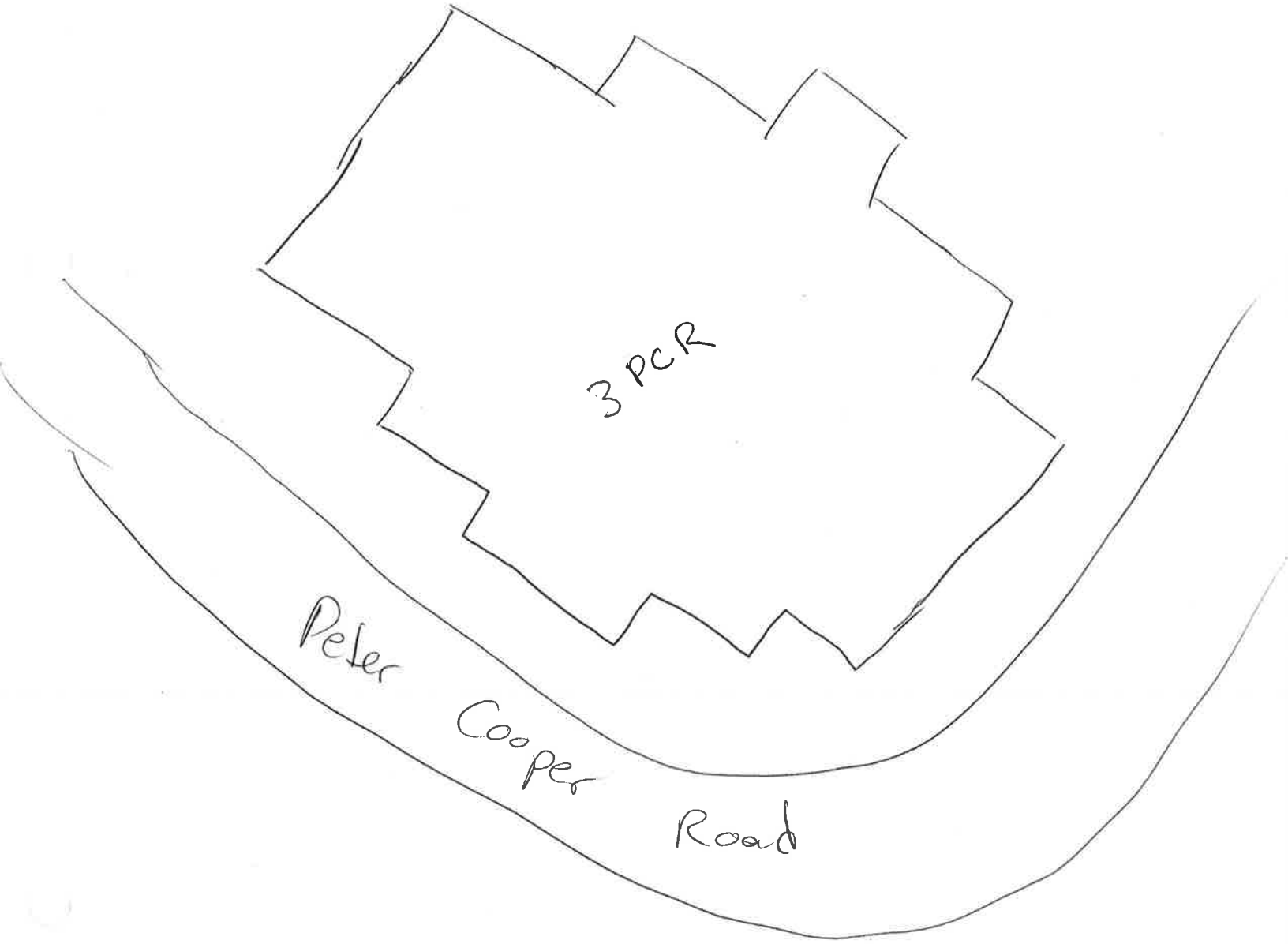
- not to scale

OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/10/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B16	
Clorox Toilet Bowl Cleaner	See SDS
Thin Spread Floor Tile-30 Henry Adhesive, 4 gallon container	See photo and SDS
PCV-IA2-B16 - Historic Fill, 55 gallon drum	Unknown
PCV-IA3-B16 – NONE	NONE

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B17

Sample Location (sketch and/or description) Steam room

SEE NYSDOH sample questionnaire form

Canister # 10262 **Regulator #** 10654

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:58	-30	**undisturbed**
In Process #1**	10:18	-24.8	**undisturbed**
In Process #2**	12:40	-18	**undisturbed**
In Process #3**	14:30	-12	**undisturbed**
End	16:30	-5.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
9:57	Drager (ppm)	<0.2
9:57	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B17

Sample Location (sketch and/or description) Storage room

SEE NYSDOH sample questionnaire form

Canister # 10259 **Regulator #** 09717

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:10	-29	**undisturbed**
In Process #1**	11:22	-23	**undisturbed**
In Process #2**	12:28	-19	**undisturbed**
In Process #3**	13:57	-15	**undisturbed**
End	16:31	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:53	Drager (ppm)	<0.2
12:53	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B17

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10188 **Regulator #** 10357

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:00	-26	**undisturbed**
In Process #1**	10:20	-20	**undisturbed**
In Process #2**	11:47	-9	**undisturbed**
In Process #3**	12:20	-6.5	**undisturbed**
End	13:55	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:43	Drager (ppm)	<0.2
12:43	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3FD-B17

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10105 **Regulator #** 10617

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:00	-30	**undisturbed**
In Process #1**	10:13	-25	**undisturbed**
In Process #2**	12:41	-18.5	**undisturbed**
In Process #3**	13:44	-15	**undisturbed**
End	16:08	-5.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:40	Drager (ppm)	<0.2
12:40	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A4-B17

Sample Location (sketch and/or description) Lobby near elevator in basement

SEE NYSDOH sample questionnaire form

Canister # 10128 **Regulator #** 10587

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:05	-30+	**undisturbed**
In Process #1**	10:10	-26.5	**undisturbed**
In Process #2**	12:32	-20	**undisturbed**
In Process #3**	14:05	-16	**undisturbed**
End	15:35	-3	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:50	Drager (ppm)	<0.2
12:50	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A5-B17

Sample Location (sketch and/or description) Laundry room

SEE NYSDOH sample questionnaire form

Canister # 10731 **Regulator #** 10300

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:02	-28	**undisturbed**
In Process #1**	11:07	-20	**undisturbed**
In Process #2**	12:30	-16.5	**undisturbed**
In Process #3**	14:00	-11	**undisturbed**
End	15:55	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:47	Drager (ppm)	<0.2
12:47	PID (ppb)	0.0

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 440 East 23rd Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

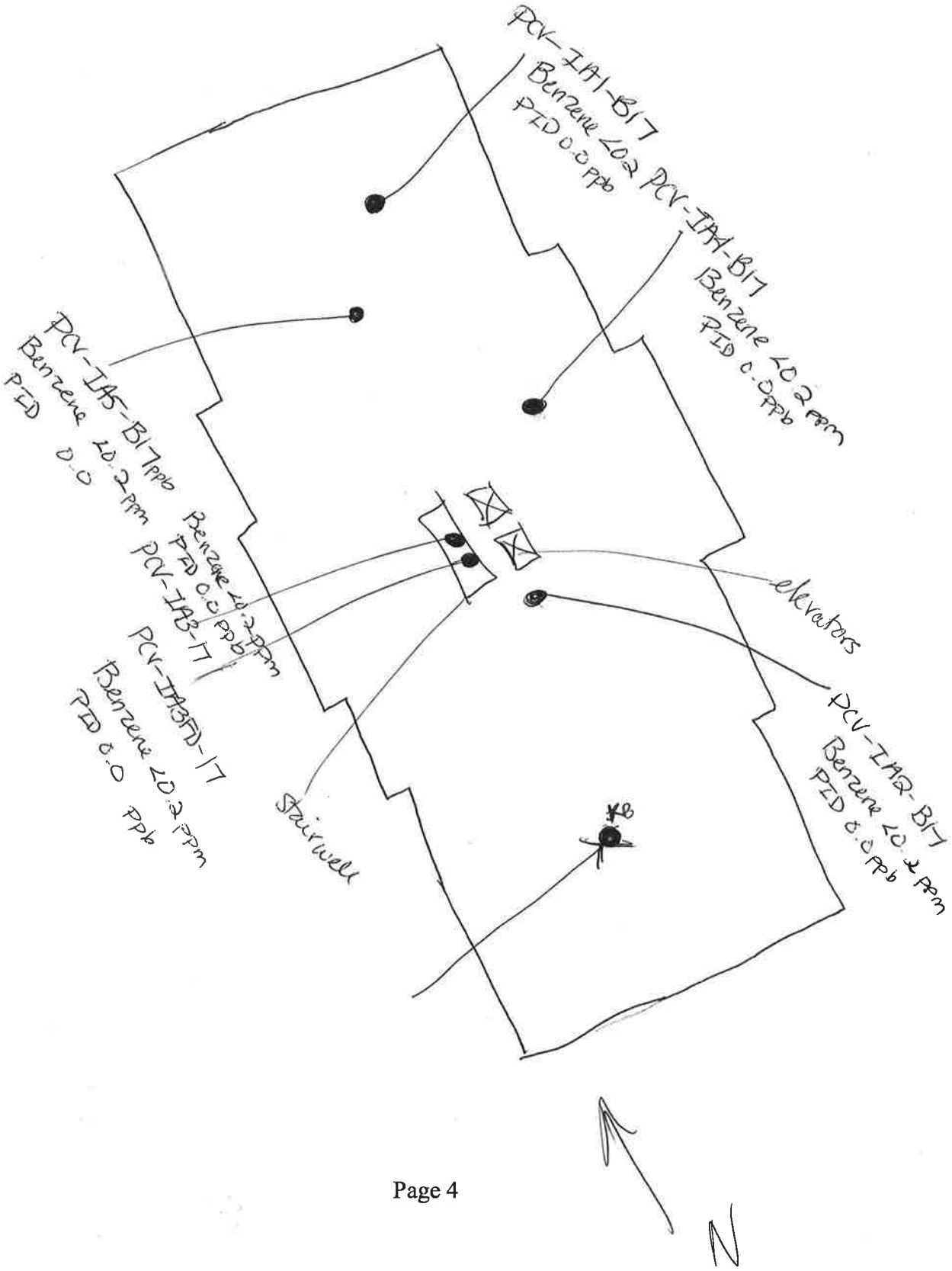
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

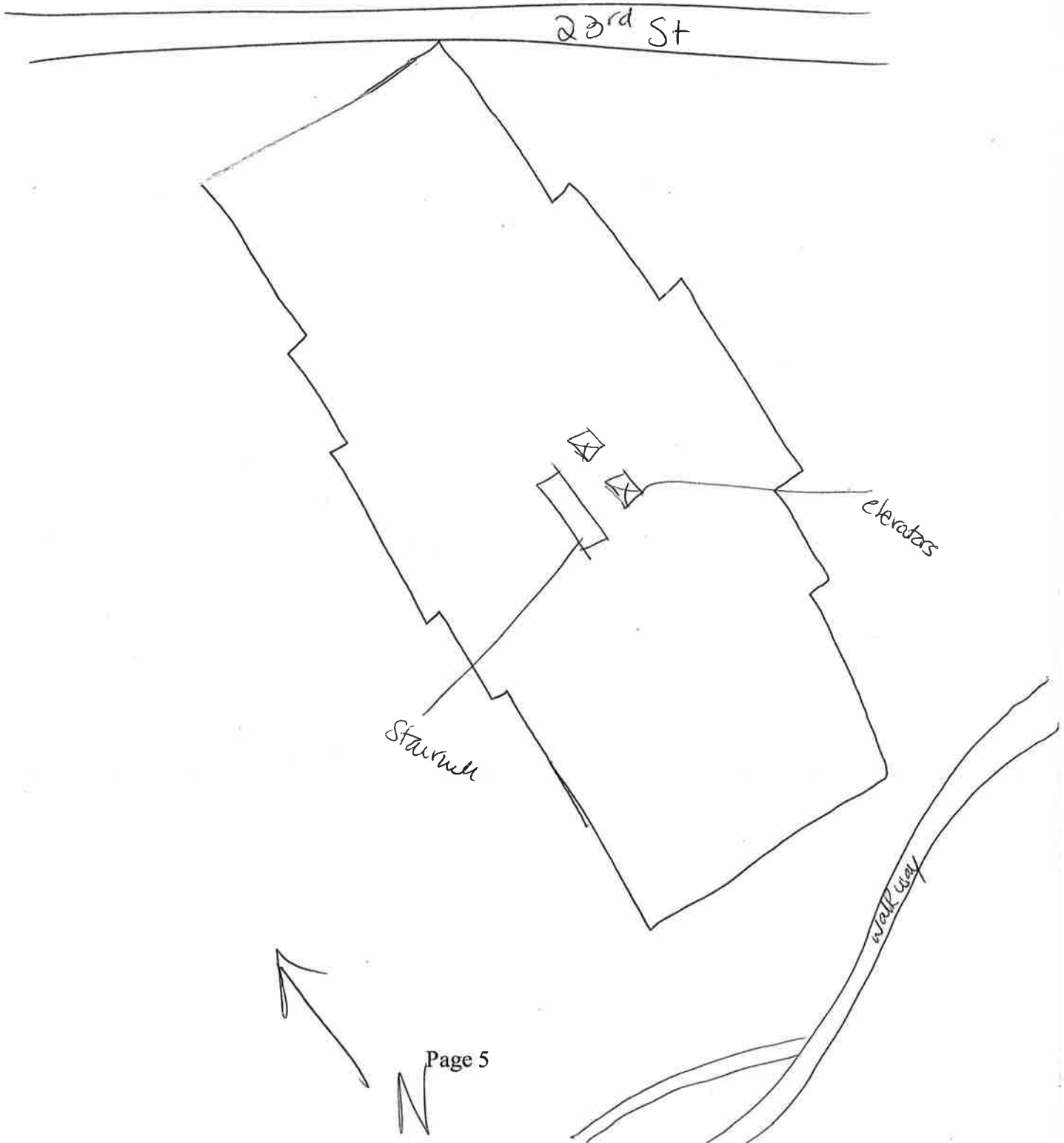


OSR-3 (continued)

G. <u>Potential Outdoor Sources of Pollution</u>

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/14/2014

Product description (dispenser, size, manufacturer…)	**VOC Ingredients**
PCV-IA1-B17 – NONE	NONE
PCV-IA2-B17 – NONE	NONE
PCV-IA3-B17 – NONE	NONE
PCV-IA3FD-B17 – NONE	NONE
PCV-IA4-B17 – NONE	NONE
PCV-IA5-B17 – NONE	NONE

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B18

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 10129 **Regulator #** 09715

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:42	-30	**undisturbed**
In Process #1**	11:59	-22	**undisturbed**
In Process #2**	14:08	-16	**undisturbed**
In Process #3**	15:47	-9	**undisturbed**
End	16:42	-5.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:59	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B18

Sample Location (sketch and/or description) Locker room

SEE NYSDOH sample questionnaire form

Canister # 11044 **Regulator #** 10647

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:37	-30	**undisturbed**
In Process #1**	11:49	-23	**undisturbed**
In Process #2**	14:18	-13.5	**undisturbed**
In Process #3**	15:54	-10	**undisturbed**
End	17:08	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:52	Drager (ppm)	<0.2
11:50	PID (ppb)	0.2

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B18

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10721 **Regulator #** 10645

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:41	-27	**undisturbed**
In Process #1**	11:54	-22	**undisturbed**
In Process #2**	14:15	-13	**undisturbed**
In Process #3**	15:56	-8	**undisturbed**
End	17:12	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:58	Drager (ppm)	<0.2
11:55	PID (ppb)	0.2

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1ATC-B18

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 09523 **Regulator #** 10630

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:44	-30	**undisturbed**
In Process #1**	12:05	-22	**undisturbed**
In Process #2**	14:10	-15	**undisturbed**
In Process #3**	15:59	-8	**undisturbed**
End	17:15	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:09	Drager (ppm)	<0.2
12:05	PID (ppb)	0.1

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/10/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 5 Peter Cooper Road
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

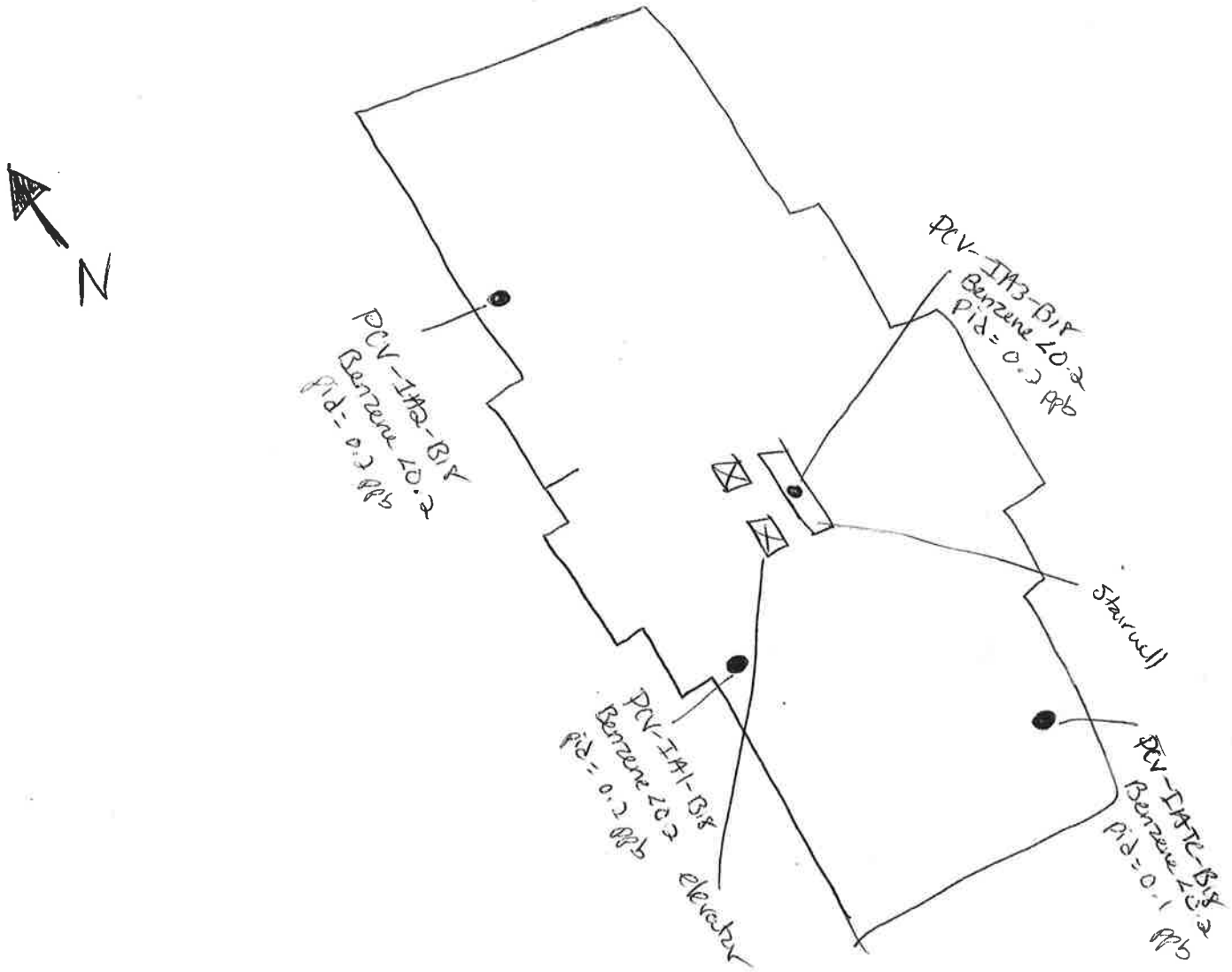
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings. Building 18



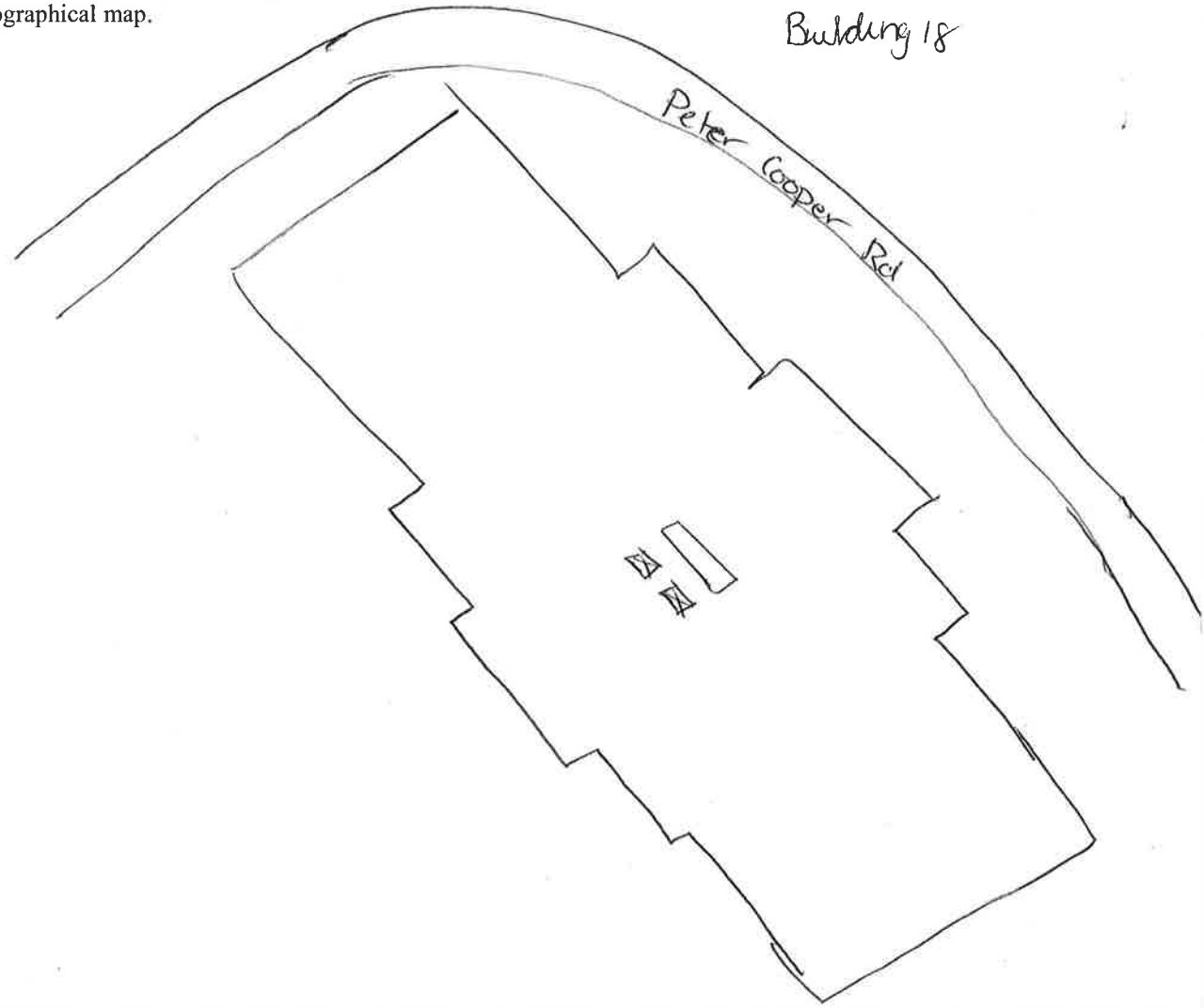
Not to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



* Not to Scale

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Kristen Barbour Date: 03/10/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients	Quantity
Unlabeled Drum	Unknown	1
Sheet Rock, All Purpose Joint Compound, 61.7 lb. bag	Ethylene, vinyl acetate, Polymer	5
BKW X-treme Tack 5000, can	See photo and SDS	1
Arrow Line Marker Inverted Marking Paint, can	See SDS	2
Kover Krack, 1 gallon bucket	Esther alcohol	1
Water Base Mastic Primer, 1 gallon	See SDS	1
Water Base Mastic Primer, 5 gallon	See SDS	2
Aqua Plug-Por-Rok Protective Marine Coating, 5 lb. container	See SDS	1
Protective and Marine Coatings-DTM Acrylic, 620 oz., Sherman Williams	See photo and SDS	1
Bondo Body Filler, 7 lb. container	See photo and SDS	1

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B19

Sample Location (sketch and/or description) Maintenance storage room

SEE NYSDOH sample questionnaire form

Canister # 11039 **Regulator #** 10505

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:43	-29	**undisturbed**
In Process #1**	10:17	-27	**undisturbed**
In Process #2**	13:29	-16	**undisturbed**
In Process #3**	15:49	-9	**undisturbed**
End	16:41	-5.5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature: 68° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:30	Drager (ppm)	<0.2
13:32	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B19

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10422 **Regulator #** 10623

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:54	-30	**undisturbed**
In Process #1**	11:38	-21.5	**undisturbed**
In Process #2**	13:22	-15	**undisturbed**
In Process #3**	15:48	-7	**undisturbed**
End	16:26	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature: 68° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:26	Drager (ppm)	<0.2
13:24	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B19

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 09822 **Regulator #** 10592

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:48	-30	**undisturbed**
In Process #1**	11:29	-24	**undisturbed**
In Process #2**	13:18	-19	**undisturbed**
In Process #3**	15:47	-11	**undisturbed**
End	16:48	-8	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature: 68° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:21	Drager (ppm)	<0.2
13:18	PID (ppb)	0.1

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/10/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 510 East 23rd Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

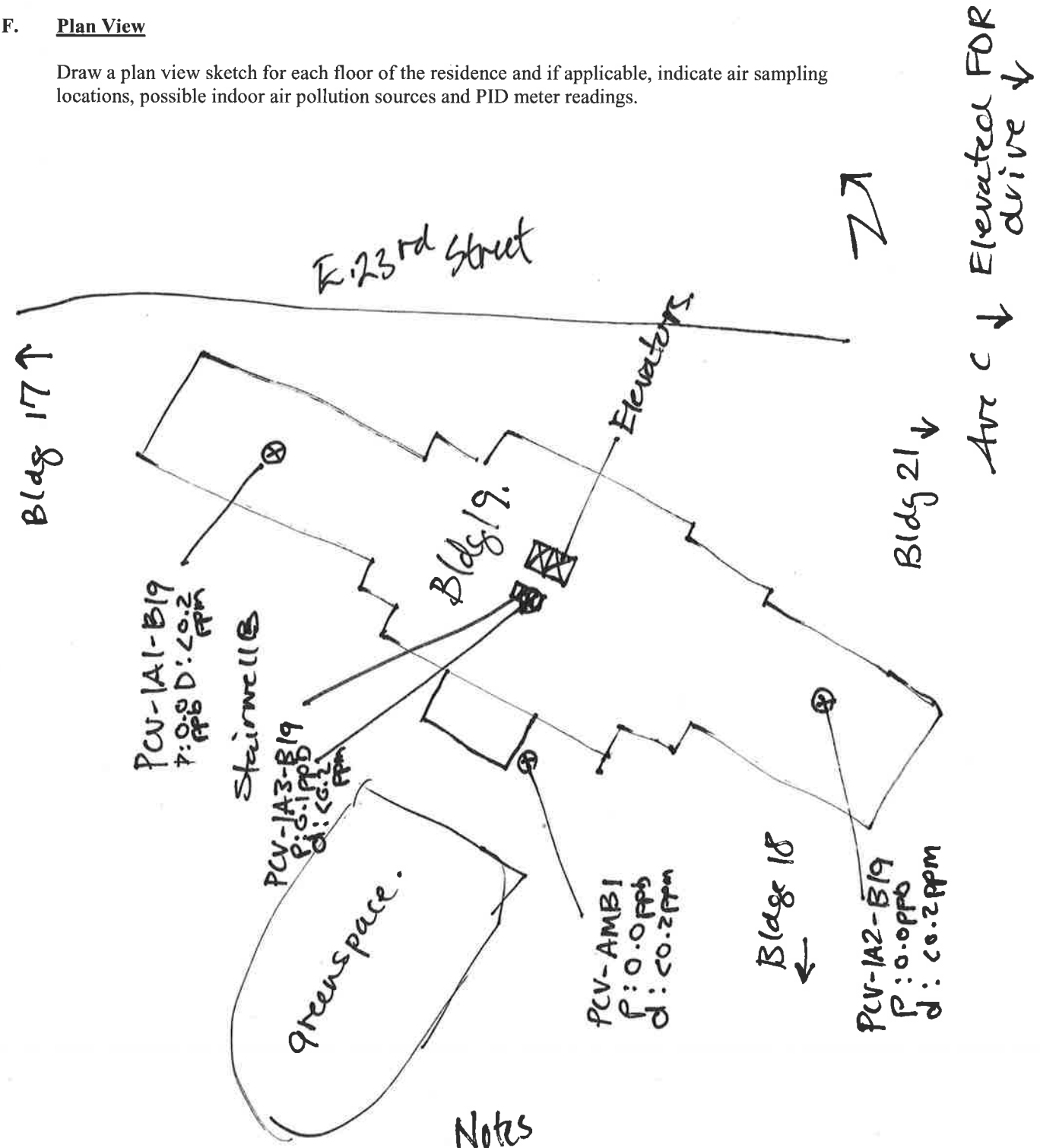
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



Notes

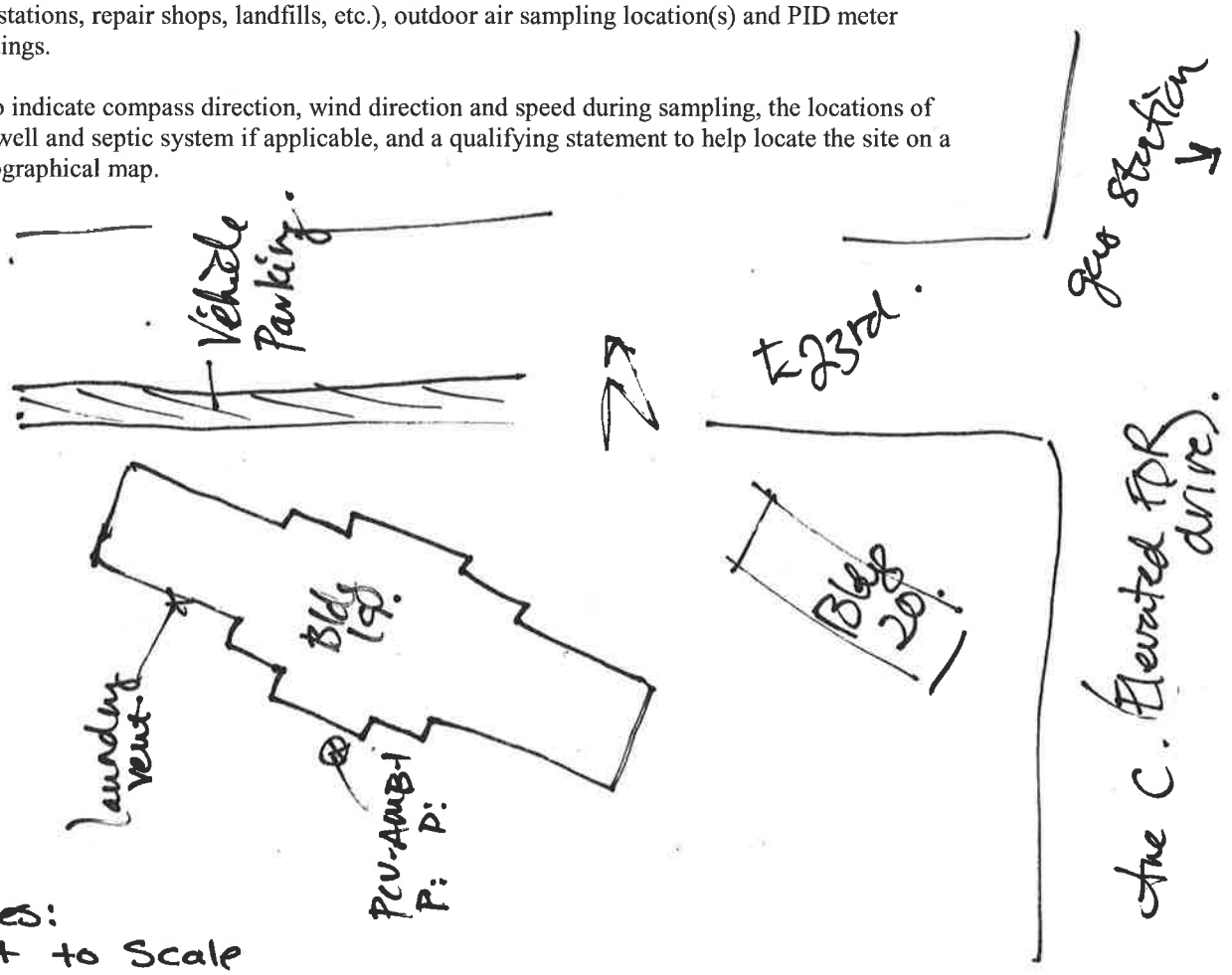
- Not to scale.
- All samples at ground or basement level.
- P: PID
- D: Dräger.

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Notes:
- Not to Scale

Est. Wind speed -

P = PID:

D = Drager:

Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Jennifer Christoffel Date: 03/10/2014

Product description (dispenser, size, manufacturer)	**VOC Ingredients**
PCV-IA1-B19 – NONE	NONE
PCV-IA2-B19 – NONE	NONE
PCV-IA3-B19 – NONE	NONE

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B20

Sample Location (sketch and/or description) Storage/Bike room

SEE NYSDOH sample questionnaire form

Canister # 09824 **Regulator #** 09910

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:00	-30	**undisturbed**
In Process #1**	10:02	-27	**undisturbed**
In Process #2**	10:47	-24	**undisturbed**
In Process #3**	14:31	-13	**undisturbed**
End	16:37	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B20

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10248 **Regulator #** 09701

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:50	-30	**undisturbed**
In Process #1**	10:01	-28	**undisturbed**
In Process #2**	10:48	-25	**undisturbed**
In Process #3**	15:00	-11	**undisturbed**
End	16:35	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B20

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 09576 **Regulator #** 10081

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:45	-30	**undisturbed**
In Process #1**	10:00	-28	**undisturbed**
In Process #2**	10:49	-26	**undisturbed**
In Process #3**	15:01	-18	**undisturbed**
End	17:01	-12	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/14/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple
Address: 7 Peter Cooper Road
County: New York, New York

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management
Address: 317 Avenue C
New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other _____
3. Concrete floor: unsealed, (painted,) (covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is open windows and concrete wall vents

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No (Unknown)
2. Is there an attached garage? Yes (/ No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes (/ No)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes (/ No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment. Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

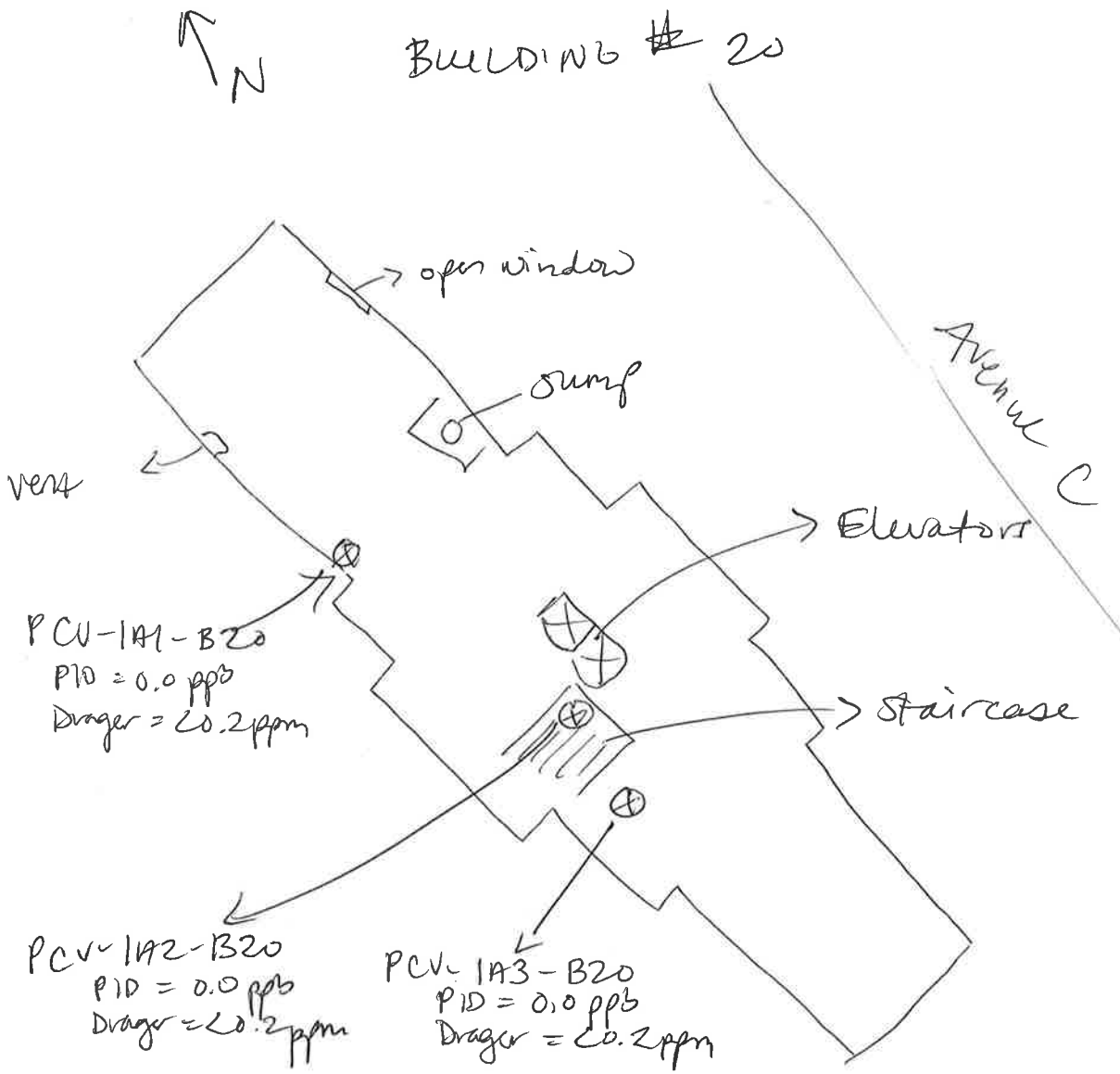
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



* Not to Scale

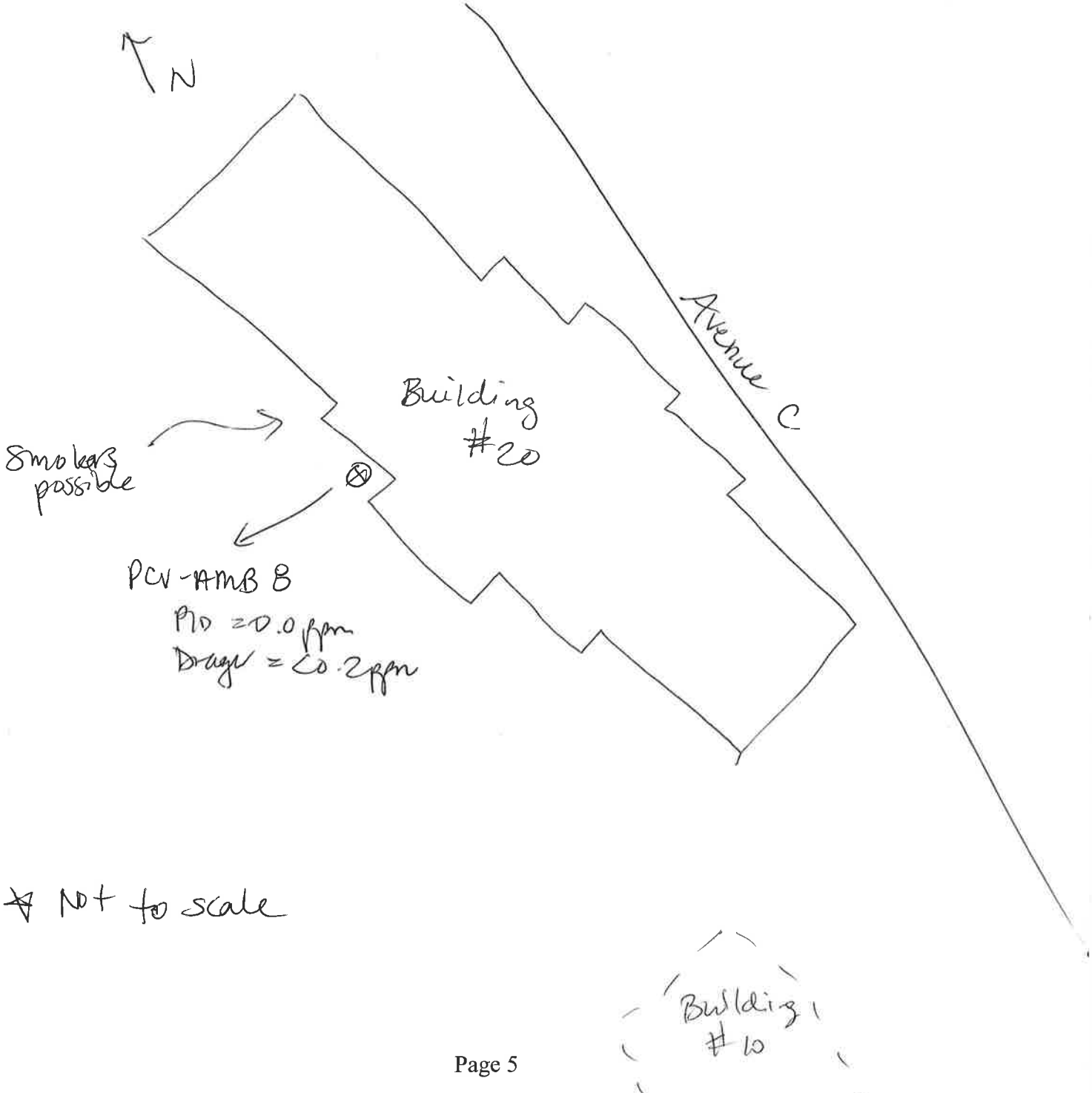
BUILDING 10

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple – basement level

Investigator: Sara Meissner Date: 03/14/2014

Product description (dispenser, size, manufacturer)	**VOC Ingredients**
PCV-IA1-B20 – NONE	NONE
PCV-IA2-B20 – NONE	NONE
PCV-IA3-B20 – NONE	NONE
PCV-AMB8	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A1-B21

Sample Location (sketch and/or description) Storage room

SEE NYSDOH sample questionnaire form

Canister # 10575 **Regulator #** 09862

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:13	-30	**undisturbed**
In Process #1**	11:18	-25.5	**undisturbed**
In Process #2**	13:05	-18	**undisturbed**
In Process #3**	15:42	-10	**undisturbed**
End	17:13	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 75° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:06	Drager (ppm)	<0.2
13:03	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A2-B21

Sample Location (sketch and/or description) Trunk room

SEE NYSDOH sample questionnaire form

Canister # 10092 **Regulator #** 10599

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:22	-30	**undisturbed**
In Process #1**	11:13	-25	**undisturbed**
In Process #2**	14:56	-14	**undisturbed**
In Process #3**	15:43	-10	**undisturbed**
End	17:10	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:55	Drager (ppm)	<0.2
12:50	PID (ppb)	0.3

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-1A3-B21

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10852 **Regulator #** 10063

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:10	-30	**undisturbed**
In Process #1**	11:16	-24	**undisturbed**
In Process #2**	12:57	-17	**undisturbed**
In Process #3**	15:41	-7	**undisturbed**
End	16:13	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes: Temperature = 75° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:00	Drager (ppm)	<0.2
12:57	PID (ppb)	0.1

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/10/2014

Preparer's Affiliation AECOM Phone No. (212) 377-8400

Purpose of Investigation Air Monitoring

1. **OCCUPANT**

Name: Multiple

Address: 530 East 23rd Street

County: Manhattan

Home Phone No. NA Office Phone No. NA

2. **OWNER OR LANDLORD:**
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, NY

Phone No. (212)598-5222 (Tom Feeny)

A. Building Construction Characteristics

Type (circle appropriate responses): Single Family (Multiple Dwelling) Commercial Public School

Ranch	2-Family
Raised Ranch	Duplex
Split Level	Apartment House unknown Units
Colonial	Number of floors 15
Mobile Home	Other specify

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, glass

Is the building insulated? (Yes) / No How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. (Full basement,) crawlspace, slab on grade, other _____
2. Basement floor: (concrete,) dirt, other tile
3. Concrete floor: unsealed, (painted, covered,) with tile
4. Foundation walls: (poured concrete,) block, laid up stone, other _____
5. The basement is: wet, damp, (dry) Sump present? y / (n) _____ Water in sump? y / n _____
6. The basement is: (finished,) unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)
   None observed
8. Describe how air tight the basement is Not tight. Concrete wall vents. Windows – cracked open
9. _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
(Steam Radiation)	Wood stove
Electric Baseboard	Other (specify)_____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, (Electric,) Wood, Coal Solar
   Other (specify)_____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? (Yes) / No Central Air or (Window Units?)
   Specify the location individual apartments
5. Are there air distribution ducts present? Yes / (No)
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints

   N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / (No) Unknown
2. Is there an attached garage? Yes / (No)
3. Is a vehicle normally parked in the garage? Yes / (No)
4. Is there a kerosene heater present? Yes / (No)
5. Is there a workshop, hobby or craft area in the residence? Yes / No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes / (No) Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
   Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

(Public Water) Drilled Well Driven Well Dug Well Other (Specify)_____

Water Well Specifications:

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

_____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

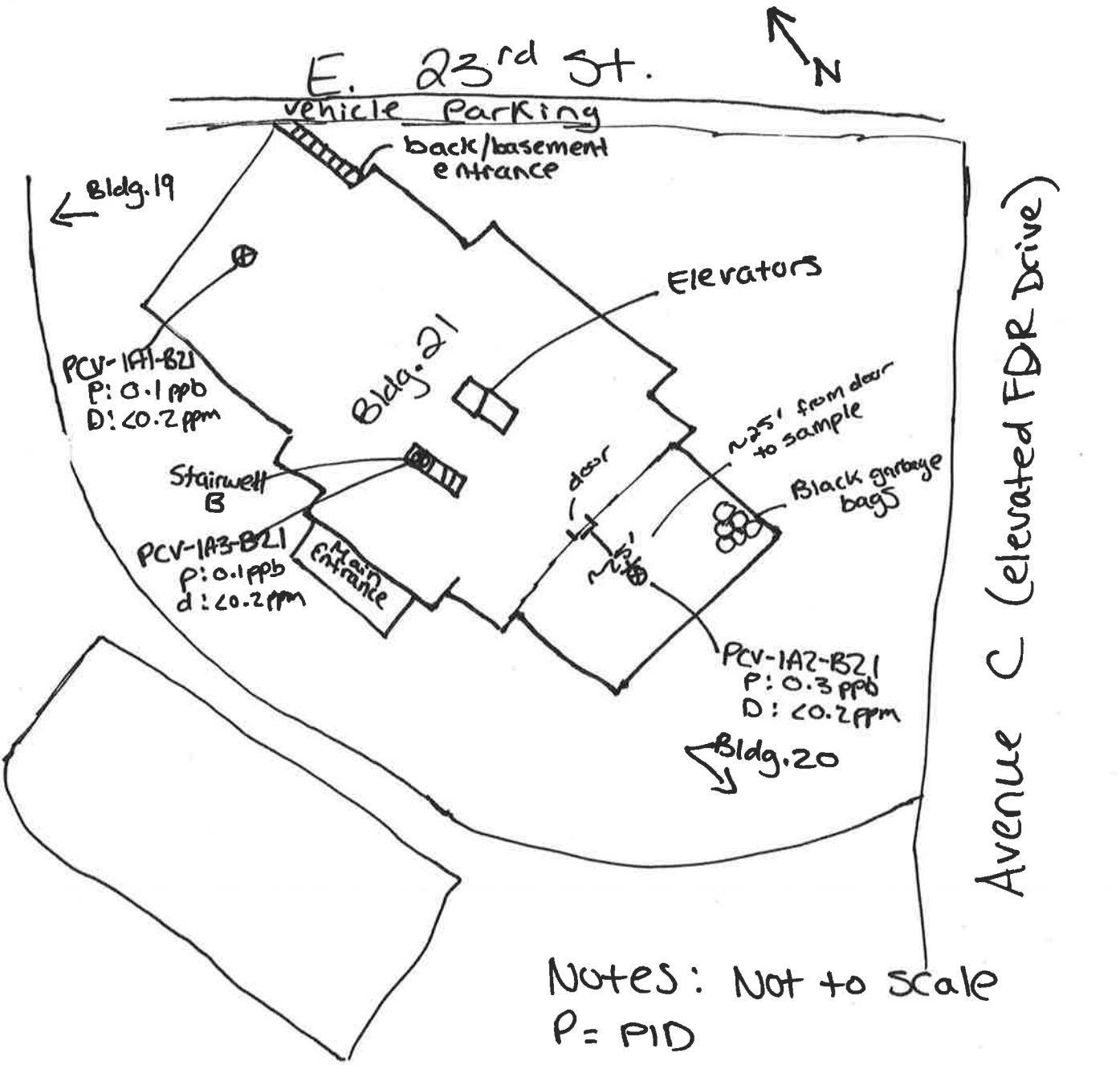
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system_____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



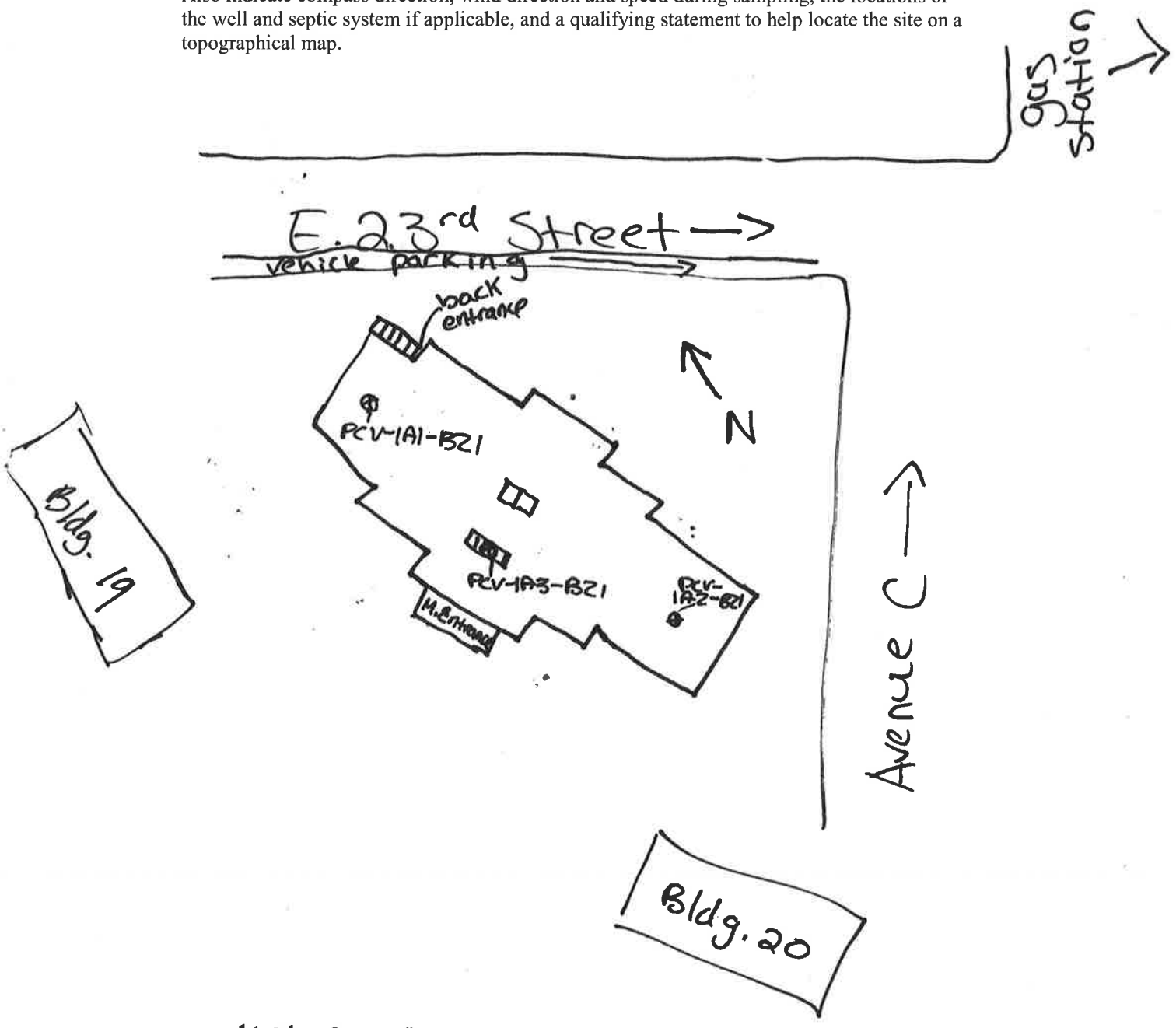
Notes: Not to scale
P = PID
D = Drager
All samples at basement level

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple Residents – basement level

Investigator: Jennifer Christoffel Date: 3/10/2014

Product description (dispenser, size, manufacturer …)	**VOC Ingredients**
2-5 gal - Sherwin Williams – Protective and Marine Coatings – Dryfall flat – Brilliant White	
1-5 gal – Sherwin Williams – Protective and Marine Coatings – Waterborne Acrylic dryfall – Brilliant White Flat	
1-1 gal – Crown – Paint Thinner – Thins and cleans oil based paints, varnishes, enamels.	
61.7 lbs – Sheet Rock – All purpose joint compound	
2-10.1 oz – Silkaflex 15LM – Low Modulus construction sealant	

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-1

Sample Location (sketch and/or description) outside of building 19 to the east of the main entrance

SEE NYSDOH sample questionnaire form

Canister # 10812 **Regulator #** 10241

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	10:09	-29	**undisturbed**
In Process #1**	13:13	-19.5	**undisturbed**
In Process #2**	15:46	-10	**undisturbed**
In Process #3**	16:25	-9	**undisturbed**
End	16:59	-7	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: 1st canister failed. Canister #10993 Regulator #10585. Replaced canister.

Temperature = 42° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
13:16	Drager (ppm)	<0.2
13:13	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/10/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-2

Sample Location (sketch and/or description) outside of building 10

SEE NYSDOH sample questionnaire form

Canister # 09613 **Regulator #** K441

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:52	-30	**undisturbed**
In Process #1**	11:00	-21	**undisturbed**
In Process #2**	12:45	-14	**undisturbed**
In Process #3**	14:30	-8	**undisturbed**
End	15:30	-4	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: At 14:00 window washer cleans windows outside next to sample using windex multipurpose

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
12:41	PID (ppb)	0.1

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-3

Sample Location (sketch and/or description) outside of building 13

SEE NYSDOH sample questionnaire form

Canister # 10330 **Regulator #** 10054

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:09	-30	**undisturbed**
In Process #1**	11:20	-22	**undisturbed**
In Process #2**	13:12	-16	**undisturbed**
In Process #3**	14:35	-12	**undisturbed**
End	16:18	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
11:20	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/11/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-4

Sample Location (sketch and/or description) outside of building 4 to the left of the main entrance

SEE NYSDOH sample questionnaire form

Canister # 10967 **Regulator #** 10631

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:35	-30	**undisturbed**
In Process #1**	11:36	-23	**undisturbed**
In Process #2**	13:13	-17	**undisturbed**
In Process #3**	15:15	-10.5	**undisturbed**
End	16:39	-6	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes: Delayed start. Original box had no canister. Had to go back to car to get a canister.

Temperature = 50° F

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
10:26	Drager (ppm)	<0.2
13:11	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-5

Sample Location (sketch and/or description) outside of building 5

SEE NYSDOH sample questionnaire form

Canister # 10043 **Regulator #** 10588

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:25	-30	**undisturbed**
In Process #1**	10:48	-19	**undisturbed**
In Process #2**	12:30	-15	**undisturbed**
In Process #3**	13:46	-10	**undisturbed**
End	14:55	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****** At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:13	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/12/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-6

Sample Location (sketch and/or description) outside of building 12

SEE NYSDOH sample questionnaire form

Canister # 10711 **Regulator #** 10593

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	7:50	-30	**undisturbed**
In Process #1**	10:40	20	**undisturbed**
In Process #2**	13:15	-11	**undisturbed**
In Process #3**	14:33	-6	**undisturbed**
End	15:02	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:32	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-7

Sample Location (sketch and/or description) outside of building 15 to the right of the main entrance

SEE NYSDOH sample questionnaire form

Canister # 11045 **Regulator #** 10287

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:31	-30	**undisturbed**
In Process #1**	10:37	-25	**undisturbed**
In Process #2**	12:08	-17.5	**undisturbed**
In Process #3**	14:39	-8	**undisturbed**
End	15:47	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
12:05	Drager (ppm)	<0.2
11:34	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Sara Meissner **Date:** 3/14/2014

Site Name: PCV-East 21st Street Works Former MGP

Sample ID and Type (indoor air, outdoor air, vapor probe) PCV-AMB-8

Sample Location (sketch and/or description) outside of building 20

SEE NYSDOH sample questionnaire form

Canister # 10829 **Regulator #** 10161

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:40	-30 +	**undisturbed**
In Process #1**	9:58	-28	**undisturbed**
In Process #2**	10:50	-26	**undisturbed**
In Process #3**	14:27	-13	**undisturbed**
End	16:31	-5	**undisturbed**

***write "undisturbed" or note and problems with sample set-up**

****At least one in process inspection must be conducted**

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No **(required for some subsurface vapor points)**

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
9:30	PID (ppb)	0.0

NA - Not available

Appendix B

Photograph Log

(Provided on CD)

Building 1 – 350 1st Avenue

PCV-IA1-B1-031114

PCV-IA2-B1-031114

Building 2 – 360 1st Avenue

PCV-IA1-B2-031114

PCV-IA2-B2-031114

Building 3 – 431 East 20th Street

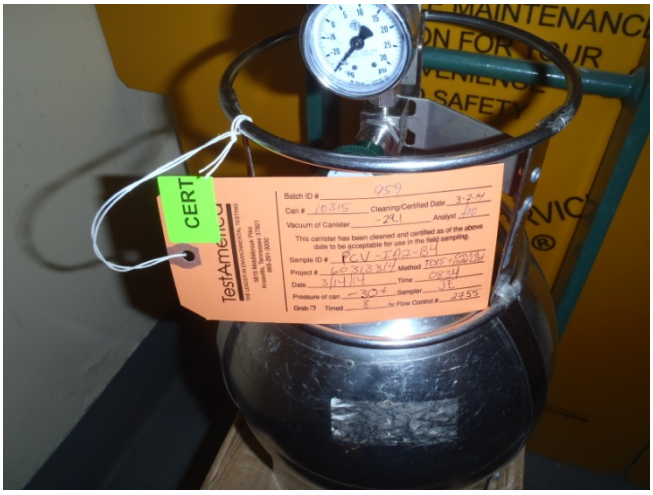
PCV-IA1-B3-031114

PCV-IA2-B3-031114

PCV-IA3-B3-031114

Building 4 – 2 Peter Cooper Road

PCV-IA1-B4-031114



PCV-IA2-B4-031414

Building 5 – 441 East 20th Street

PCV-IA1-B5-031214

PCV-IA2-B5-031214

PCV-IAPC-B5-031214

Building 6 – 4 Peter Cooper Road

PCV-IA1-B6-031414

PCV-IA2-B6-031414

Building 7 – 511 East 20th Street

PCV-IA1-B7-031414

PCV-IA2-B7-031214

PCV-IA3-B7-031214

Building 8 – 6 Peter Cooper Road

PCV-IA1-B8-031414/ PCV-IA1FD-B8-031414

PCV-IA2-B8-031414

Building 9 – 531 East 20th Street

PCV-IA1-B9031414/ PCV-IA1FD-B9-031414

PCV-IA2-B9-031414

Building 10 – 8 Peter Cooper Road

PCV-1A1-B10-031014

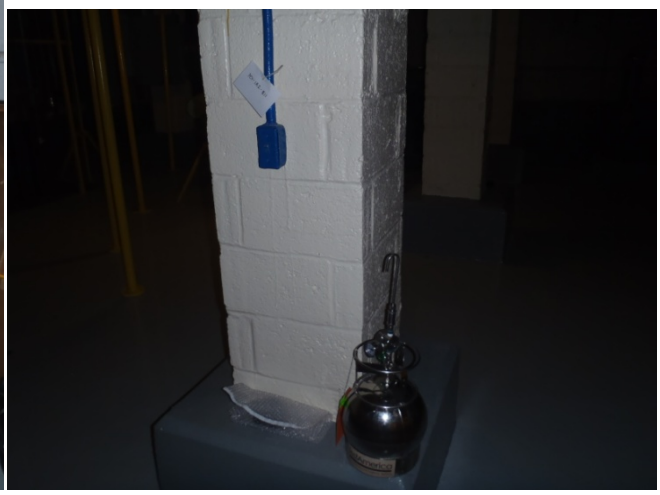
PCV-IALC-B10-031014

PCV-IA2-B10-031014

PCV-IA3-B10-031014

Building 11 – 541 East 20th Street

PCV-IA1-B11-031214



PCV-IA2-B11-031214

PCV-IA3-B11-031214

Building 12 – 601 East 20th Street

PCV-IA1-B12-031214

PCV-IA2-B12-031214

PCV-IA3-B12-031214

Building 13 – 390 1st Avenue

PCV-IA1-B13-031114

PCV-IA2-B13-031114

PCV-IA3-B13-031114

Building 14 – 1 Peter Cooper Road

PCV-IA1-B14-031114/PCV-IA1FD-B14-031114

PCV-IA2-B14-031114

Building 15 – 420 East 23rd Street

PCV-IA1-B15-031414

PCV-IA2-B15-031414

PCV-IA3-B15-031414

Building 16 – 3 Peter Cooper Road

PCV-IA1-B16-031014

PCV-IA2-B16-031014

PCV-IA3-B16-031014

Building 17 – 444 East 23rd Street

PCV-IA1-B17-031414

PCV-IA2-B17-031414

PCV-IA3-B17-031414/
PCV-IA3FD-B17-031414

PCV-IA4-B17-031414

PCV-IA5-B17-031414

Building 18 – 5 Peter Cooper Road

PCV-IA1-B18-031014

PCV-IA2-B18-031014

PCV-IA3-B18-031014

PCV-IATC-B18-031014

Building 19 – 510 East 23rd Street

PCV-IA1-B19-031014

PCV-IA2-B19-031014

PCV-IA3-B19-031014

Building 20 – 7 Peter Cooper Road

PCV-IA1-B20-031414

PCV-IA2-B20-031414

PCV-IA3-B20-031414

Building 21 – 530 East 23rd Street

PCV-IA1-B21-031014

PCV-IA2-B21-031014

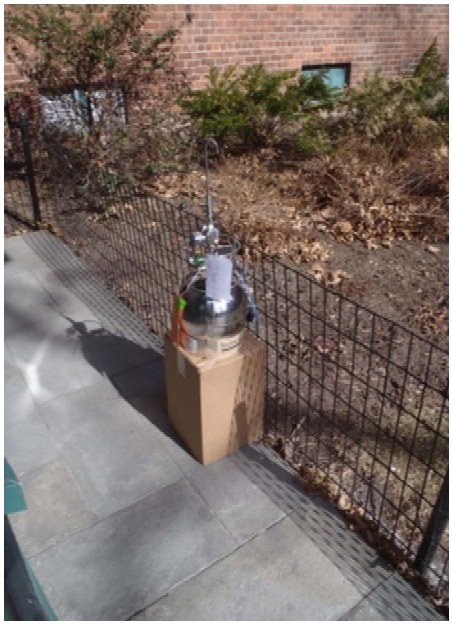
PCV-IA3-B21-031014

Ambient Samples

PCV-AMB1-031014

PCV-AMB-2-031014

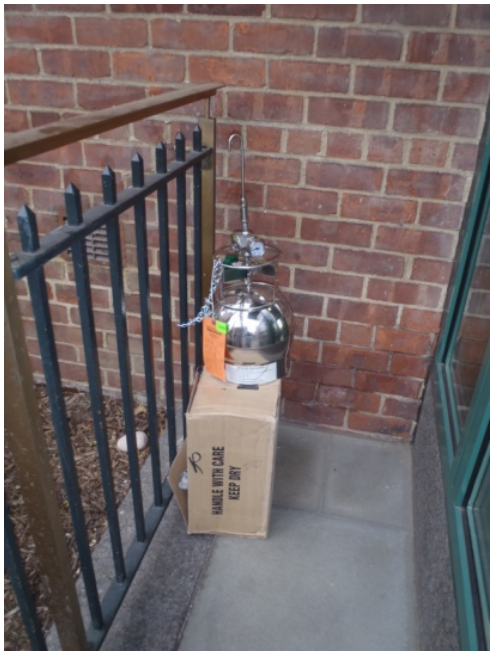
PCV-AMB-3-031114



PCV-AMB4-031114

Ambient Samples (continued)

PCV-AMB-5-031214



PCV-AMB-6-031214

PCV-AMB-7-031414

PCV-AMB-8-031414

Appendix C

Analytical Laboratory Reports

Test America, Inc.

(Provided on CD)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 140-1037-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/25/2014 9:13 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/25/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Comments
No additional comments.

Receipt
The samples were received on 3/12/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: . PCV-IA3-B21, PCV-IA2-B19, PCV-IA1-B21, PCV-IA1-B19, PCV-IA3-B19, PCV-IA2-B21

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Client Sample ID: PCV-IA1-B10 **Lab Sample ID: 140-1037-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.39		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.092	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.052	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.71		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.20	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.5	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.044	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.051	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	60		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.24		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.10	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.41		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.096	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Toluene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.9		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.45	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.83	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.81	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.75		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.14	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.18	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	110		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.41	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.47	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.5		0.87	0.52	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B10 (Continued)

Lab Sample ID: 140-1037-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	1.8		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.41	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B10

Lab Sample ID: 140-1037-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.062	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.49		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.10	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.45	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.0		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.44	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.065	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	36		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	2.9		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.17	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	82	E	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	14		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	5.0		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.079	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.040	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.42		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol - DL	98		8.0	0.38	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.4		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.50	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.95	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.62	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.77		0.64	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B10 (Continued)

Lab Sample ID: 140-1037-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.91	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.23	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	67		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	13		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.72	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.55	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	200	E	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	61		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	22		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.34	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.27	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol - DL	240		20	0.92	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B10

Lab Sample ID: 140-1037-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.0		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.21		0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.072	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.41	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.6		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.21		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.26	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.9	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.49		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.091	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.30		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.67		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.14	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	35		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.56		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.22	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.26	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	36		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.5		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.091	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.87		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.070	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.041	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B10 (Continued) — Lab Sample ID: 140-1037-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	5.1		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.0		0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	7.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.74		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.3	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.53	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.3	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.6		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.57	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.5		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.48	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	66		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.5		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.91	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.93	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	88		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	5.2		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	10		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.48	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	3.8		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	7.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IALC-B10 — Lab Sample ID: 140-1037-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.060	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.39		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.091	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.39	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.72		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.16	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.3		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.057	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.45	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IALC-B10 (Continued)

Lab Sample ID: 140-1037-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.060	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	110		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.89		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.18	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	20		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.57		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.47	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.5		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.12	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.069	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.66		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.9		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.45	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.63	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.64	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.69		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.36	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.58	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.92	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.21	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	200		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.9		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.74	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.51	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	48		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.0		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	19		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	2.5	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	6.6		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.5	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.51	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.47	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB-2 (Continued)

Lab Sample ID: 140-1037-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.61		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.061	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	1.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.062	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.049	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.89	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.52		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.19	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.25	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	4.4	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.68		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.39	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	22		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.45	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.2	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	2.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.72	J	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.069	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2,3-Dimethylpentane	0.44		0.20	0.20	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.33	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.80		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.059	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B16 (Continued)

Lab Sample ID: 140-1037-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.088	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.46	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	54		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.68		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.25	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.6		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	3.3		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.7		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.3		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.089	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2,3-Dimethylpentane	1.8		0.82	0.82	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.98	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.24	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	23		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.70		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.43	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.96	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	100		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.0	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.54	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	11		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	16		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	5.5		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.60	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.99		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.099	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B16 (Continued)

Lab Sample ID: 140-1037-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.38	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.72		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	4.2	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.26		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.062	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.046	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.045	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	27		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.13	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.12	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.26	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.70		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.65		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.25		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.085	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.36		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.49	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	10	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.83		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.11	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.39	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.23	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.97	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.15	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	51		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.57	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.48	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.92	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.3	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.4		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.8		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.1		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.5	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.58	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.075	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.67		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.095	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.057	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.1		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.13	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	47		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.24		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.17	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.4		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.5		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.45		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.064	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.53	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.35	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.78	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.47	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.23	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	15		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.73		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.63	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.41	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	89		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.70	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	7.3		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	4.9		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	6.6		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.9		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B16 (Continued)

Lab Sample ID: 140-1037-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.12	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.84		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.8		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	19		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.063	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.61		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.080	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	490	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.24		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.13	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.52		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.54		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.7	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	1.8		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.098	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.46		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	470		8.0	8.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.60	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.83	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	12		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	45		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.73		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.27	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	920	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B18 (Continued)

Lab Sample ID: 140-1037-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptane	0.53	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.55	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	6.2		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	7.8		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.67	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	880		15	15	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.085	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.23	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.63		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.050	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.061	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.043	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.46	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	32		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.37		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.075	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	2.0		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.74		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.42	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.68	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.20	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.64		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.38	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.21	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.95	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B18 (Continued)

Lab Sample ID: 140-1037-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	59		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.6		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.31	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.59	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	6.9		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	8.5		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	3.2		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.98		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B18

Lab Sample ID: 140-1037-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.060	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.081	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.62		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.1	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.041	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.48	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	25		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.059	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.45	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.47		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.40	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.47	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.7	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.59	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.12	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.20	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B18 (Continued)

Lab Sample ID: 140-1037-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	48		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.44	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.6	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.81		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IATC-B18

Lab Sample ID: 140-1037-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.67		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.045	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	25		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.27		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.058	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.50		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.56		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.43	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.3	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.61	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.22	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	47		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.2		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.47	J	1.8	0.11	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IATC-B18 (Continued)

Lab Sample ID: 140-1037-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	6.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.84		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB1

Lab Sample ID: 140-1037-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.41	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.4		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	11		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.060	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.20	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.9		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	18		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	12		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.71		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	20		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.25	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.69	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	6.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	2.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.97		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B10
Lab Sample ID: 140-1037-1
Date Collected: 03/10/14 16:15
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/13/14 19:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 19:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 19:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 19:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 19:42	1
1,2,4-Trimethylbenzene	**0.39**		0.20	0.063	ppb v/v			03/13/14 19:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 19:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 19:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 19:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 19:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 19:42	1
1,3,5-Trimethylbenzene	**0.092**	**J**	0.20	0.065	ppb v/v			03/13/14 19:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 19:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 19:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 19:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 19:42	1
2,2,4-Trimethylpentane	**0.052**	**J**	0.50	0.039	ppb v/v			03/13/14 19:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
2-Butanone (MEK)	**0.28**	**J**	1.0	0.20	ppb v/v			03/13/14 19:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 19:42	1
2-Methylbutane	**0.71**		0.50	0.031	ppb v/v			03/13/14 19:42	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
4-Ethyltoluene	**0.10**	**J**	0.40	0.066	ppb v/v			03/13/14 19:42	1
4-Methyl-2-pentanone (MIBK)	**0.20**	**J**	0.50	0.045	ppb v/v			03/13/14 19:42	1
Acetone	**3.5**	**J**	5.0	1.4	ppb v/v			03/13/14 19:42	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/13/14 19:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 19:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 19:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 19:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 19:42	1
Carbon disulfide	**0.044**	**J**	0.50	0.031	ppb v/v			03/13/14 19:42	1
Carbon tetrachloride	**0.065**	**J**	0.20	0.038	ppb v/v			03/13/14 19:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 19:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 19:42	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 19:42	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/13/14 19:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 19:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 19:42	1
Cyclohexane	**0.051**	**J**	0.50	0.040	ppb v/v			03/13/14 19:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 19:42	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/13/14 19:42	1
Ethanol	**60**		2.0	2.0	ppb v/v			03/13/14 19:42	1
Ethylbenzene	**0.24**		0.20	0.068	ppb v/v			03/13/14 19:42	1
Heptane	**0.10**	**J**	0.50	0.047	ppb v/v			03/13/14 19:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 19:42	1

Client Sample ID: PCV-IA1-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/13/14 19:42	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 19:42	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/13/14 19:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 19:42	1
Methylene Chloride	**0.37**	**J**	0.50	0.13	ppb v/v			03/13/14 19:42	1
m-Xylene & p-Xylene	**1.0**		0.20	0.12	ppb v/v			03/13/14 19:42	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 19:42	1
o-Xylene	**0.41**		0.20	0.061	ppb v/v			03/13/14 19:42	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/13/14 19:42	1
Styrene	**0.096**	**J**	0.20	0.058	ppb v/v			03/13/14 19:42	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/13/14 19:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 19:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
Toluene	**0.29**		0.20	0.12	ppb v/v			03/13/14 19:42	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 19:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 19:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 19:42	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/13/14 19:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 19:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 19:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/13/14 19:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 19:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 19:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 19:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 19:42	1
1,2,4-Trimethylbenzene	**1.9**		0.98	0.31	ug/m3			03/13/14 19:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 19:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 19:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 19:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 19:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 19:42	1
1,3,5-Trimethylbenzene	**0.45**	**J**	0.98	0.32	ug/m3			03/13/14 19:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 19:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 19:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 19:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 19:42	1
2,2,4-Trimethylpentane	**0.24**	**J**	2.3	0.18	ug/m3			03/13/14 19:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 19:42	1
2-Butanone (MEK)	**0.83**	**J**	2.9	0.59	ug/m3			03/13/14 19:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 19:42	1
2-Methylbutane	**2.1**		1.5	0.091	ug/m3			03/13/14 19:42	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 19:42	1
4-Ethyltoluene	**0.51**	**J**	2.0	0.32	ug/m3			03/13/14 19:42	1
4-Methyl-2-pentanone (MIBK)	**0.81**	**J**	2.0	0.18	ug/m3			03/13/14 19:42	1

Client Sample ID: PCV-IA1-B10

Lab Sample ID: 140-1037-1

Date Collected: 03/10/14 16:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.2**	**J**	12	3.3	ug/m3			03/13/14 19:42	1
Benzene	**0.75**		0.64	0.18	ug/m3			03/13/14 19:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 19:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 19:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 19:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 19:42	1
Carbon disulfide	**0.14**	**J**	1.6	0.097	ug/m3			03/13/14 19:42	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/13/14 19:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 19:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 19:42	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 19:42	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/13/14 19:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 19:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 19:42	1
Cyclohexane	**0.18**	**J**	1.7	0.14	ug/m3			03/13/14 19:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 19:42	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/13/14 19:42	1
Ethanol	**110**		3.8	3.8	ug/m3			03/13/14 19:42	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/13/14 19:42	1
Heptane	**0.41**	**J**	2.0	0.19	ug/m3			03/13/14 19:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 19:42	1
Hexane	**0.47**	**J**	1.8	0.11	ug/m3			03/13/14 19:42	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 19:42	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 19:42	1
Isopropyl alcohol	**3.4**	**J**	4.9	0.23	ug/m3			03/13/14 19:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 19:42	1
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/13/14 19:42	1
m-Xylene & p-Xylene	**4.5**		0.87	0.52	ug/m3			03/13/14 19:42	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 19:42	1
o-Xylene	**1.8**		0.87	0.26	ug/m3			03/13/14 19:42	1
Propene	**2.1**	**cn**	0.86	0.13	ug/m3			03/13/14 19:42	1
Styrene	**0.41**	**J**	0.85	0.25	ug/m3			03/13/14 19:42	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/13/14 19:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 19:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 19:42	1
Toluene	**1.1**		0.75	0.45	ug/m3			03/13/14 19:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 19:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 19:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 19:42	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/13/14 19:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/13/14 19:42*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 20:27	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.062**	**J**	0.20	0.031	ppb v/v			03/13/14 20:27	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 20:27	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 20:27	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 20:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 20:27	1
1,2,4-Trimethylbenzene	**0.49**		0.20	0.063	ppb v/v			03/13/14 20:27	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 20:27	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 20:27	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 20:27	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 20:27	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 20:27	1
1,3,5-Trimethylbenzene	**0.10**	**J**	0.20	0.065	ppb v/v			03/13/14 20:27	1
1,3-Butadiene	**0.073**	**J**	0.40	0.064	ppb v/v			03/13/14 20:27	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 20:27	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 20:27	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 20:27	1
2,2,4-Trimethylpentane	**0.045**	**J**	0.50	0.039	ppb v/v			03/13/14 20:27	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
2-Butanone (MEK)	**0.45**	**J**	1.0	0.20	ppb v/v			03/13/14 20:27	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 20:27	1
2-Methylbutane	**1.0**		0.50	0.031	ppb v/v			03/13/14 20:27	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
4-Ethyltoluene	**0.19**	**J**	0.40	0.066	ppb v/v			03/13/14 20:27	1
4-Methyl-2-pentanone (MIBK)	**0.15**	**J**	0.50	0.045	ppb v/v			03/13/14 20:27	1
Acetone	**6.0**		5.0	1.4	ppb v/v			03/13/14 20:27	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/13/14 20:27	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 20:27	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 20:27	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 20:27	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 20:27	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 20:27	1
Carbon tetrachloride	**0.058**	**J**	0.20	0.038	ppb v/v			03/13/14 20:27	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 20:27	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 20:27	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 20:27	1
Chloromethane	**0.44**	**J**	0.50	0.16	ppb v/v			03/13/14 20:27	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 20:27	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 20:27	1
Cyclohexane	**0.065**	**J**	0.50	0.040	ppb v/v			03/13/14 20:27	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 20:27	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/13/14 20:27	1
Ethanol	**36**		2.0	2.0	ppb v/v			03/13/14 20:27	1
Ethylbenzene	**2.9**		0.20	0.068	ppb v/v			03/13/14 20:27	1
Heptane	**0.17**	**J**	0.50	0.047	ppb v/v			03/13/14 20:27	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 20:27	1
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/13/14 20:27	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 20:27	1
Isopropyl alcohol	**82**	**E**	2.0	0.094	ppb v/v			03/13/14 20:27	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 20:27	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/13/14 20:27	1
m-Xylene & p-Xylene	**14**		0.20	0.12	ppb v/v			03/13/14 20:27	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 20:27	1
o-Xylene	**5.0**		0.20	0.061	ppb v/v			03/13/14 20:27	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/13/14 20:27	1
Styrene	**0.079**	**J**	0.20	0.058	ppb v/v			03/13/14 20:27	1
Tetrachloroethene	**0.040**	**J**	0.20	0.040	ppb v/v			03/13/14 20:27	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 20:27	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
Toluene	**0.42**		0.20	0.12	ppb v/v			03/13/14 20:27	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 20:27	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 20:27	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 20:27	1
Trichlorofluoromethane	**0.23**		0.20	0.024	ppb v/v			03/13/14 20:27	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 20:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 20:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.47**	**J**	1.5	0.24	ug/m3			03/13/14 20:27	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 20:27	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 20:27	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 20:27	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 20:27	1
1,2,4-Trimethylbenzene	**2.4**		0.98	0.31	ug/m3			03/13/14 20:27	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 20:27	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 20:27	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 20:27	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 20:27	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 20:27	1
1,3,5-Trimethylbenzene	**0.50**	**J**	0.98	0.32	ug/m3			03/13/14 20:27	1
1,3-Butadiene	**0.16**	**J**	0.88	0.14	ug/m3			03/13/14 20:27	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 20:27	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 20:27	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 20:27	1
2,2,4-Trimethylpentane	**0.21**	**J**	2.3	0.18	ug/m3			03/13/14 20:27	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 20:27	1
2-Butanone (MEK)	**1.3**	**J**	2.9	0.59	ug/m3			03/13/14 20:27	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 20:27	1
2-Methylbutane	**3.0**		1.5	0.091	ug/m3			03/13/14 20:27	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 20:27	1
4-Ethyltoluene	**0.95**	**J**	2.0	0.32	ug/m3			03/13/14 20:27	1
4-Methyl-2-pentanone (MIBK)	**0.62**	**J**	2.0	0.18	ug/m3			03/13/14 20:27	1
Acetone	**14**		12	3.3	ug/m3			03/13/14 20:27	1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.77**		0.64	0.18	ug/m3			03/13/14 20:27	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 20:27	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 20:27	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 20:27	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 20:27	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 20:27	1
Carbon tetrachloride	**0.37**	**J**	1.3	0.24	ug/m3			03/13/14 20:27	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 20:27	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 20:27	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 20:27	1
Chloromethane	**0.91**	**J**	1.0	0.33	ug/m3			03/13/14 20:27	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 20:27	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 20:27	1
Cyclohexane	**0.23**	**J**	1.7	0.14	ug/m3			03/13/14 20:27	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 20:27	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/13/14 20:27	1
Ethanol	**67**		3.8	3.8	ug/m3			03/13/14 20:27	1
Ethylbenzene	**13**		0.87	0.30	ug/m3			03/13/14 20:27	1
Heptane	**0.72**	**J**	2.0	0.19	ug/m3			03/13/14 20:27	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 20:27	1
Hexane	**0.55**	**J**	1.8	0.11	ug/m3			03/13/14 20:27	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 20:27	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 20:27	1
Isopropyl alcohol	**200**	**E**	4.9	0.23	ug/m3			03/13/14 20:27	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 20:27	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/13/14 20:27	1
m-Xylene & p-Xylene	**61**		0.87	0.52	ug/m3			03/13/14 20:27	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 20:27	1
o-Xylene	**22**		0.87	0.26	ug/m3			03/13/14 20:27	1
Propene	**2.2**	**cn**	0.86	0.13	ug/m3			03/13/14 20:27	1
Styrene	**0.34**	**J**	0.85	0.25	ug/m3			03/13/14 20:27	1
Tetrachloroethene	**0.27**	**J**	1.4	0.27	ug/m3			03/13/14 20:27	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 20:27	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 20:27	1
Toluene	**1.6**		0.75	0.45	ug/m3			03/13/14 20:27	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 20:27	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 20:27	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 20:27	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/13/14 20:27	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/13/14 20:27*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**98**		8.0	0.38	ppb v/v			03/14/14 07:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**240**		20	0.92	ug/m3			03/14/14 07:46	1

Client Sample ID: PCV-IA2-B10

Lab Sample ID: 140-1037-2

Date Collected: 03/10/14 14:00

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/14/14 07:46*	*1*

Client Sample ID: PCV-IA3-B10

Lab Sample ID: 140-1037-3

Date Collected: 03/10/14 16:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 21:14	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 21:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/13/14 21:14	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 21:14	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 21:14	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 21:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 21:14	1
1,2,4-Trimethylbenzene	**1.0**		0.20	0.063	ppb v/v			03/13/14 21:14	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 21:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 21:14	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 21:14	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 21:14	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 21:14	1
1,3,5-Trimethylbenzene	**0.21**		0.20	0.065	ppb v/v			03/13/14 21:14	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 21:14	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 21:14	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 21:14	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 21:14	1
2,2,4-Trimethylpentane	**0.072**	**J**	0.50	0.039	ppb v/v			03/13/14 21:14	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
2-Butanone (MEK)	**0.41**	**J**	1.0	0.20	ppb v/v			03/13/14 21:14	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 21:14	1
2-Methylbutane	**2.6**		0.50	0.031	ppb v/v			03/13/14 21:14	1
2-Methylpentane	**0.21**		0.20	0.20	ppb v/v			03/13/14 21:14	1
4-Ethyltoluene	**0.26**	**J**	0.40	0.066	ppb v/v			03/13/14 21:14	1
4-Methyl-2-pentanone (MIBK)	**0.13**	**J**	0.50	0.045	ppb v/v			03/13/14 21:14	1
Acetone	**3.9**	**J**	5.0	1.4	ppb v/v			03/13/14 21:14	1
Benzene	**0.49**		0.20	0.056	ppb v/v			03/13/14 21:14	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 21:14	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 21:14	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 21:14	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 21:14	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 21:14	1
Carbon tetrachloride	**0.091**	**J**	0.20	0.038	ppb v/v			03/13/14 21:14	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 21:14	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 21:14	1
Chloroform	**0.30**		0.20	0.038	ppb v/v			03/13/14 21:14	1
Chloromethane	**0.67**		0.50	0.16	ppb v/v			03/13/14 21:14	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 21:14	1

Client Sample ID: PCV-IA3-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 21:14	1
Cyclohexane	**0.14**	**J**	0.50	0.040	ppb v/v			03/13/14 21:14	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 21:14	1
Dichlorodifluoromethane	**0.51**		0.20	0.068	ppb v/v			03/13/14 21:14	1
Ethanol	**35**		2.0	2.0	ppb v/v			03/13/14 21:14	1
Ethylbenzene	**0.56**		0.20	0.068	ppb v/v			03/13/14 21:14	1
Heptane	**0.22**	**J**	0.50	0.047	ppb v/v			03/13/14 21:14	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 21:14	1
Hexane	**0.26**	**J**	0.50	0.032	ppb v/v			03/13/14 21:14	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 21:14	1
Isopropyl alcohol	**36**		2.0	0.094	ppb v/v			03/13/14 21:14	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 21:14	1
Methylene Chloride	**1.5**		0.50	0.13	ppb v/v			03/13/14 21:14	1
m-Xylene & p-Xylene	**2.4**		0.20	0.12	ppb v/v			03/13/14 21:14	1
Naphthalene	**0.091**	**J**	0.50	0.090	ppb v/v			03/13/14 21:14	1
o-Xylene	**0.87**		0.20	0.061	ppb v/v			03/13/14 21:14	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/13/14 21:14	1
Styrene	**0.070**	**J**	0.20	0.058	ppb v/v			03/13/14 21:14	1
Tetrachloroethene	**0.041**	**J**	0.20	0.040	ppb v/v			03/13/14 21:14	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 21:14	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
Toluene	**2.0**		0.20	0.12	ppb v/v			03/13/14 21:14	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 21:14	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 21:14	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 21:14	1
Trichlorofluoromethane	**0.31**		0.20	0.024	ppb v/v			03/13/14 21:14	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 21:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 21:14	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 21:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**	**J**	1.5	0.24	ug/m3			03/13/14 21:14	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 21:14	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 21:14	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 21:14	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 21:14	1
1,2,4-Trimethylbenzene	**5.1**		0.98	0.31	ug/m3			03/13/14 21:14	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 21:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 21:14	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 21:14	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 21:14	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 21:14	1
1,3,5-Trimethylbenzene	**1.0**		0.98	0.32	ug/m3			03/13/14 21:14	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 21:14	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 21:14	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 21:14	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 21:14	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA3-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/13/14 21:14	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 21:14	1
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3			03/13/14 21:14	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 21:14	1
2-Methylbutane	7.8		1.5	0.091	ug/m3			03/13/14 21:14	1
2-Methylpentane	0.74		0.70	0.70	ug/m3			03/13/14 21:14	1
4-Ethyltoluene	1.3	J	2.0	0.32	ug/m3			03/13/14 21:14	1
4-Methyl-2-pentanone (MIBK)	0.53	J	2.0	0.18	ug/m3			03/13/14 21:14	1
Acetone	9.3	J	12	3.3	ug/m3			03/13/14 21:14	1
Benzene	1.6		0.64	0.18	ug/m3			03/13/14 21:14	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 21:14	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 21:14	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 21:14	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 21:14	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 21:14	1
Carbon tetrachloride	0.57	J	1.3	0.24	ug/m3			03/13/14 21:14	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 21:14	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 21:14	1
Chloroform	1.5		0.98	0.19	ug/m3			03/13/14 21:14	1
Chloromethane	1.4		1.0	0.33	ug/m3			03/13/14 21:14	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 21:14	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 21:14	1
Cyclohexane	0.48	J	1.7	0.14	ug/m3			03/13/14 21:14	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 21:14	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/13/14 21:14	1
Ethanol	66		3.8	3.8	ug/m3			03/13/14 21:14	1
Ethylbenzene	2.5		0.87	0.30	ug/m3			03/13/14 21:14	1
Heptane	0.91	J	2.0	0.19	ug/m3			03/13/14 21:14	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 21:14	1
Hexane	0.93	J	1.8	0.11	ug/m3			03/13/14 21:14	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 21:14	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 21:14	1
Isopropyl alcohol	88		4.9	0.23	ug/m3			03/13/14 21:14	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 21:14	1
Methylene Chloride	5.2		1.7	0.45	ug/m3			03/13/14 21:14	1
m-Xylene & p-Xylene	10		0.87	0.52	ug/m3			03/13/14 21:14	1
Naphthalene	0.48	J	2.6	0.47	ug/m3			03/13/14 21:14	1
o-Xylene	3.8		0.87	0.26	ug/m3			03/13/14 21:14	1
Propene	2.4	cn	0.86	0.13	ug/m3			03/13/14 21:14	1
Styrene	0.30	J	0.85	0.25	ug/m3			03/13/14 21:14	1
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3			03/13/14 21:14	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 21:14	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 21:14	1
Toluene	7.4		0.75	0.45	ug/m3			03/13/14 21:14	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 21:14	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 21:14	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 21:14	1
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3			03/13/14 21:14	1

Client Sample ID: PCV-IA3-B10

Lab Sample ID: 140-1037-3

Date Collected: 03/10/14 16:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/13/14 21:14*	*1*

Client Sample ID: PCV-IALC-B10

Lab Sample ID: 140-1037-4

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 21:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.060**	**J**	0.20	0.031	ppb v/v			03/13/14 21:59	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 21:59	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 21:59	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 21:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 21:59	1
1,2,4-Trimethylbenzene	**0.39**		0.20	0.063	ppb v/v			03/13/14 21:59	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 21:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 21:59	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 21:59	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 21:59	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 21:59	1
1,3,5-Trimethylbenzene	**0.091**	**J**	0.20	0.065	ppb v/v			03/13/14 21:59	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 21:59	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 21:59	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 21:59	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 21:59	1
2,2,4-Trimethylpentane	**0.043**	**J**	0.50	0.039	ppb v/v			03/13/14 21:59	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
2-Butanone (MEK)	**0.39**	**J**	1.0	0.20	ppb v/v			03/13/14 21:59	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 21:59	1
2-Methylbutane	**0.72**		0.50	0.031	ppb v/v			03/13/14 21:59	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
4-Ethyltoluene	**0.13**	**J**	0.40	0.066	ppb v/v			03/13/14 21:59	1
4-Methyl-2-pentanone (MIBK)	**0.16**	**J**	0.50	0.045	ppb v/v			03/13/14 21:59	1
Acetone	**5.3**		5.0	1.4	ppb v/v			03/13/14 21:59	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/13/14 21:59	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 21:59	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 21:59	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 21:59	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 21:59	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 21:59	1
Carbon tetrachloride	**0.057**	**J**	0.20	0.038	ppb v/v			03/13/14 21:59	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 21:59	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 21:59	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IALC-B10
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.12**	**J**	0.20	0.038	ppb v/v			03/13/14 21:59	1
Chloromethane	**0.45**	**J**	0.50	0.16	ppb v/v			03/13/14 21:59	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 21:59	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 21:59	1
Cyclohexane	**0.060**	**J**	0.50	0.040	ppb v/v			03/13/14 21:59	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 21:59	1
Dichlorodifluoromethane	**0.41**		0.20	0.068	ppb v/v			03/13/14 21:59	1
Ethanol	**110**		2.0	2.0	ppb v/v			03/13/14 21:59	1
Ethylbenzene	**0.89**		0.20	0.068	ppb v/v			03/13/14 21:59	1
Heptane	**0.18**	**J**	0.50	0.047	ppb v/v			03/13/14 21:59	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 21:59	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/13/14 21:59	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 21:59	1
Isopropyl alcohol	**20**		2.0	0.094	ppb v/v			03/13/14 21:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 21:59	1
Methylene Chloride	**0.57**		0.50	0.13	ppb v/v			03/13/14 21:59	1
m-Xylene & p-Xylene	**4.3**		0.20	0.12	ppb v/v			03/13/14 21:59	1
Naphthalene	**0.47**	**J**	0.50	0.090	ppb v/v			03/13/14 21:59	1
o-Xylene	**1.5**		0.20	0.061	ppb v/v			03/13/14 21:59	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/13/14 21:59	1
Styrene	**0.12**	**J**	0.20	0.058	ppb v/v			03/13/14 21:59	1
Tetrachloroethene	**0.069**	**J**	0.20	0.040	ppb v/v			03/13/14 21:59	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 21:59	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
Toluene	**0.66**		0.20	0.12	ppb v/v			03/13/14 21:59	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 21:59	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 21:59	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 21:59	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/13/14 21:59	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 21:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 21:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.46**	**J**	1.5	0.24	ug/m3			03/13/14 21:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 21:59	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 21:59	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 21:59	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 21:59	1
1,2,4-Trimethylbenzene	**1.9**		0.98	0.31	ug/m3			03/13/14 21:59	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 21:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 21:59	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 21:59	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 21:59	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 21:59	1
1,3,5-Trimethylbenzene	**0.45**	**J**	0.98	0.32	ug/m3			03/13/14 21:59	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 21:59	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IALC-B10
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 21:59	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 21:59	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 21:59	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/13/14 21:59	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 21:59	1
2-Butanone (MEK)	**1.2**	**J**	2.9	0.59	ug/m3			03/13/14 21:59	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 21:59	1
2-Methylbutane	**2.1**		1.5	0.091	ug/m3			03/13/14 21:59	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 21:59	1
4-Ethyltoluene	**0.63**	**J**	2.0	0.32	ug/m3			03/13/14 21:59	1
4-Methyl-2-pentanone (MIBK)	**0.64**	**J**	2.0	0.18	ug/m3			03/13/14 21:59	1
Acetone	**13**		12	3.3	ug/m3			03/13/14 21:59	1
Benzene	**0.69**		0.64	0.18	ug/m3			03/13/14 21:59	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 21:59	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 21:59	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 21:59	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 21:59	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 21:59	1
Carbon tetrachloride	**0.36**	**J**	1.3	0.24	ug/m3			03/13/14 21:59	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 21:59	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 21:59	1
Chloroform	**0.58**	**J**	0.98	0.19	ug/m3			03/13/14 21:59	1
Chloromethane	**0.92**	**J**	1.0	0.33	ug/m3			03/13/14 21:59	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 21:59	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 21:59	1
Cyclohexane	**0.21**	**J**	1.7	0.14	ug/m3			03/13/14 21:59	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 21:59	1
Dichlorodifluoromethane	**2.0**		0.99	0.34	ug/m3			03/13/14 21:59	1
Ethanol	**200**		3.8	3.8	ug/m3			03/13/14 21:59	1
Ethylbenzene	**3.9**		0.87	0.30	ug/m3			03/13/14 21:59	1
Heptane	**0.74**	**J**	2.0	0.19	ug/m3			03/13/14 21:59	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 21:59	1
Hexane	**0.51**	**J**	1.8	0.11	ug/m3			03/13/14 21:59	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 21:59	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 21:59	1
Isopropyl alcohol	**48**		4.9	0.23	ug/m3			03/13/14 21:59	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 21:59	1
Methylene Chloride	**2.0**		1.7	0.45	ug/m3			03/13/14 21:59	1
m-Xylene & p-Xylene	**19**		0.87	0.52	ug/m3			03/13/14 21:59	1
Naphthalene	**2.5**	**J**	2.6	0.47	ug/m3			03/13/14 21:59	1
o-Xylene	**6.6**		0.87	0.26	ug/m3			03/13/14 21:59	1
Propene	**2.5**	**cn**	0.86	0.13	ug/m3			03/13/14 21:59	1
Styrene	**0.51**	**J**	0.85	0.25	ug/m3			03/13/14 21:59	1
Tetrachloroethene	**0.47**	**J**	1.4	0.27	ug/m3			03/13/14 21:59	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 21:59	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 21:59	1
Toluene	**2.5**		0.75	0.45	ug/m3			03/13/14 21:59	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 21:59	1

Client Sample ID: PCV-IALC-B10

Lab Sample ID: 140-1037-4

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 21:59	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 21:59	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/13/14 21:59	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*03/13/14 21:59*	*1*

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

Date Collected: 03/10/14 15:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 22:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/13/14 22:44	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 22:44	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 22:44	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 22:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 22:44	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/13/14 22:44	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 22:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 22:44	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 22:44	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 22:44	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 22:44	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/13/14 22:44	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 22:44	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 22:44	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 22:44	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 22:44	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/13/14 22:44	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
2-Butanone (MEK)	**0.21**	**J**	1.0	0.20	ppb v/v			03/13/14 22:44	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 22:44	1
2-Methylbutane	**0.61**		0.50	0.031	ppb v/v			03/13/14 22:44	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/13/14 22:44	1
4-Methyl-2-pentanone (MIBK)	**0.061**	**J**	0.50	0.045	ppb v/v			03/13/14 22:44	1
Acetone	**1.8**	**J**	5.0	1.4	ppb v/v			03/13/14 22:44	1
Benzene	**0.21**		0.20	0.056	ppb v/v			03/13/14 22:44	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 22:44	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 22:44	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 22:44	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 22:44	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 22:44	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-AMB-2
Date Collected: 03/10/14 15:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**0.062**	**J**	0.20	0.038	ppb v/v			03/13/14 22:44	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 22:44	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 22:44	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 22:44	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/13/14 22:44	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 22:44	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 22:44	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/13/14 22:44	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 22:44	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/13/14 22:44	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/13/14 22:44	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/13/14 22:44	1
Heptane	**0.049**	**J**	0.50	0.047	ppb v/v			03/13/14 22:44	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 22:44	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/13/14 22:44	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 22:44	1
Isopropyl alcohol	**0.89**	**J**	2.0	0.094	ppb v/v			03/13/14 22:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 22:44	1
Methylene Chloride	**0.52**		0.50	0.13	ppb v/v			03/13/14 22:44	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/13/14 22:44	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 22:44	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/13/14 22:44	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/13/14 22:44	1
Styrene	ND		0.20	0.058	ppb v/v			03/13/14 22:44	1
Tetrachloroethene	**0.052**	**J**	0.20	0.040	ppb v/v			03/13/14 22:44	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 22:44	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
Toluene	**0.19**	**J**	0.20	0.12	ppb v/v			03/13/14 22:44	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 22:44	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 22:44	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 22:44	1
Trichlorofluoromethane	**0.23**		0.20	0.024	ppb v/v			03/13/14 22:44	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 22:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 22:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/13/14 22:44	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 22:44	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 22:44	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 22:44	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 22:44	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/13/14 22:44	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 22:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 22:44	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 22:44	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 22:44	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-AMB-2
Date Collected: 03/10/14 15:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 22:44	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/13/14 22:44	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 22:44	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 22:44	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 22:44	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 22:44	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/13/14 22:44	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 22:44	1
2-Butanone (MEK)	**0.61**	**J**	2.9	0.59	ug/m3			03/13/14 22:44	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 22:44	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/13/14 22:44	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 22:44	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/13/14 22:44	1
4-Methyl-2-pentanone (MIBK)	**0.25**	**J**	2.0	0.18	ug/m3			03/13/14 22:44	1
Acetone	**4.4**	**J**	12	3.3	ug/m3			03/13/14 22:44	1
Benzene	**0.68**		0.64	0.18	ug/m3			03/13/14 22:44	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 22:44	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 22:44	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 22:44	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 22:44	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 22:44	1
Carbon tetrachloride	**0.39**	**J**	1.3	0.24	ug/m3			03/13/14 22:44	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 22:44	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 22:44	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 22:44	1
Chloromethane	**1.0**		1.0	0.33	ug/m3			03/13/14 22:44	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 22:44	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 22:44	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/13/14 22:44	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 22:44	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/13/14 22:44	1
Ethanol	**22**		3.8	3.8	ug/m3			03/13/14 22:44	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/13/14 22:44	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/13/14 22:44	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 22:44	1
Hexane	**0.45**	**J**	1.8	0.11	ug/m3			03/13/14 22:44	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 22:44	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 22:44	1
Isopropyl alcohol	**2.2**	**J**	4.9	0.23	ug/m3			03/13/14 22:44	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 22:44	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/13/14 22:44	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/13/14 22:44	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 22:44	1
o-Xylene	ND		0.87	0.26	ug/m3			03/13/14 22:44	1
Propene	**2.0**	**cn**	0.86	0.13	ug/m3			03/13/14 22:44	1
Styrene	ND		0.85	0.25	ug/m3			03/13/14 22:44	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/13/14 22:44	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 22:44	1

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

Date Collected: 03/10/14 15:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 22:44	1
Toluene	**0.72**	**J**	0.75	0.45	ug/m3			03/13/14 22:44	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 22:44	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 22:44	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 22:44	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/13/14 22:44	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/13/14 22:44*	*1*

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 00:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/14/14 00:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 00:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 00:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 00:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 00:15	1
1,2,4-Trimethylbenzene	**0.069**	**J**	0.20	0.063	ppb v/v			03/14/14 00:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 00:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 00:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 00:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 00:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 00:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 00:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 00:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 00:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 00:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 00:15	1
2,2,4-Trimethylpentane	**0.042**	**J**	0.50	0.039	ppb v/v			03/14/14 00:15	1
2,3-Dimethylpentane	**0.44**		0.20	0.20	ppb v/v			03/14/14 00:15	1
2-Butanone (MEK)	**0.33**	**J**	1.0	0.20	ppb v/v			03/14/14 00:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 00:15	1
2-Methylbutane	**0.80**		0.50	0.031	ppb v/v			03/14/14 00:15	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 00:15	1
4-Methyl-2-pentanone (MIBK)	**0.059**	**J**	0.50	0.045	ppb v/v			03/14/14 00:15	1
Acetone	**9.5**		5.0	1.4	ppb v/v			03/14/14 00:15	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/14/14 00:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 00:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 00:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA2-B16
Lab Sample ID: 140-1037-6
Date Collected: 03/10/14 16:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 00:15	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 00:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 00:15	1
Carbon tetrachloride	**0.065**	**J**	0.20	0.038	ppb v/v			03/14/14 00:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 00:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 00:15	1
Chloroform	**0.088**	**J**	0.20	0.038	ppb v/v			03/14/14 00:15	1
Chloromethane	**0.46**	**J**	0.50	0.16	ppb v/v			03/14/14 00:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 00:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 00:15	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 00:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 00:15	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/14/14 00:15	1
Ethanol	**54**		2.0	2.0	ppb v/v			03/14/14 00:15	1
Ethylbenzene	**0.68**		0.20	0.068	ppb v/v			03/14/14 00:15	1
Heptane	**0.25**	**J**	0.50	0.047	ppb v/v			03/14/14 00:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 00:15	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/14/14 00:15	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 00:15	1
Isopropyl alcohol	**4.6**		2.0	0.094	ppb v/v			03/14/14 00:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 00:15	1
Methylene Chloride	**3.3**		0.50	0.13	ppb v/v			03/14/14 00:15	1
m-Xylene & p-Xylene	**3.7**		0.20	0.12	ppb v/v			03/14/14 00:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 00:15	1
o-Xylene	**1.3**		0.20	0.061	ppb v/v			03/14/14 00:15	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/14/14 00:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 00:15	1
Tetrachloroethene	**0.089**	**J**	0.20	0.040	ppb v/v			03/14/14 00:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 00:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
Toluene	**0.26**		0.20	0.12	ppb v/v			03/14/14 00:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 00:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 00:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 00:15	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/14/14 00:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 00:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 00:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/14/14 00:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 00:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 00:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 00:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 00:15	1
1,2,4-Trimethylbenzene	**0.34**	**J**	0.98	0.31	ug/m3			03/14/14 00:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 00:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA2-B16
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 00:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 00:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 00:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 00:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 00:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 00:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 00:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 00:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 00:15	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/14/14 00:15	1
2,3-Dimethylpentane	**1.8**		0.82	0.82	ug/m3			03/14/14 00:15	1
2-Butanone (MEK)	**0.98**	**J**	2.9	0.59	ug/m3			03/14/14 00:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 00:15	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/14/14 00:15	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 00:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 00:15	1
4-Methyl-2-pentanone (MIBK)	**0.24**	**J**	2.0	0.18	ug/m3			03/14/14 00:15	1
Acetone	**23**		12	3.3	ug/m3			03/14/14 00:15	1
Benzene	**0.70**		0.64	0.18	ug/m3			03/14/14 00:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 00:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 00:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 00:15	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 00:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 00:15	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/14/14 00:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 00:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 00:15	1
Chloroform	**0.43**	**J**	0.98	0.19	ug/m3			03/14/14 00:15	1
Chloromethane	**0.96**	**J**	1.0	0.33	ug/m3			03/14/14 00:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 00:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 00:15	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 00:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 00:15	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 00:15	1
Ethanol	**100**		3.8	3.8	ug/m3			03/14/14 00:15	1
Ethylbenzene	**3.0**		0.87	0.30	ug/m3			03/14/14 00:15	1
Heptane	**1.0**	**J**	2.0	0.19	ug/m3			03/14/14 00:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 00:15	1
Hexane	**0.54**	**J**	1.8	0.11	ug/m3			03/14/14 00:15	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 00:15	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 00:15	1
Isopropyl alcohol	**11**		4.9	0.23	ug/m3			03/14/14 00:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 00:15	1
Methylene Chloride	**11**		1.7	0.45	ug/m3			03/14/14 00:15	1
m-Xylene & p-Xylene	**16**		0.87	0.52	ug/m3			03/14/14 00:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 00:15	1
o-Xylene	**5.5**		0.87	0.26	ug/m3			03/14/14 00:15	1
Propene	**2.2**	**cn**	0.86	0.13	ug/m3			03/14/14 00:15	1

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.85	0.25	ug/m3			03/14/14 00:15	1
Tetrachloroethene	**0.60**	**J**	1.4	0.27	ug/m3			03/14/14 00:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 00:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 00:15	1
Toluene	**0.99**		0.75	0.45	ug/m3			03/14/14 00:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 00:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 00:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 00:15	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 00:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*03/14/14 00:15*	*1*

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Date Collected: 03/10/14 16:42

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 01:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/14/14 01:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 01:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 01:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 01:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 01:01	1
1,2,4-Trimethylbenzene	**0.099**	**J**	0.20	0.063	ppb v/v			03/14/14 01:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 01:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 01:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 01:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 01:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 01:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 01:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 01:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 01:01	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/14/14 01:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
2-Butanone (MEK)	**0.38**	**J**	1.0	0.20	ppb v/v			03/14/14 01:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 01:01	1
2-Methylbutane	**0.72**		0.50	0.031	ppb v/v			03/14/14 01:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 01:01	1
Acetone	**4.2**	**J**	5.0	1.4	ppb v/v			03/14/14 01:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA1-B16
Date Collected: 03/10/14 16:42
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.26**		0.20	0.056	ppb v/v			03/14/14 01:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 01:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 01:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 01:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 01:01	1
Carbon disulfide	**0.037**	**J**	0.50	0.031	ppb v/v			03/14/14 01:01	1
Carbon tetrachloride	**0.062**	**J**	0.20	0.038	ppb v/v			03/14/14 01:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 01:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 01:01	1
Chloroform	**0.046**	**J**	0.20	0.038	ppb v/v			03/14/14 01:01	1
Chloromethane	**0.47**	**J**	0.50	0.16	ppb v/v			03/14/14 01:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 01:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 01:01	1
Cyclohexane	**0.045**	**J**	0.50	0.040	ppb v/v			03/14/14 01:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 01:01	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/14/14 01:01	1
Ethanol	**27**		2.0	2.0	ppb v/v			03/14/14 01:01	1
Ethylbenzene	**0.13**	**J**	0.20	0.068	ppb v/v			03/14/14 01:01	1
Heptane	**0.12**	**J**	0.50	0.047	ppb v/v			03/14/14 01:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 01:01	1
Hexane	**0.26**	**J**	0.50	0.032	ppb v/v			03/14/14 01:01	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 01:01	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/14/14 01:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 01:01	1
Methylene Chloride	**0.70**		0.50	0.13	ppb v/v			03/14/14 01:01	1
m-Xylene & p-Xylene	**0.65**		0.20	0.12	ppb v/v			03/14/14 01:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 01:01	1
o-Xylene	**0.25**		0.20	0.061	ppb v/v			03/14/14 01:01	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/14/14 01:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 01:01	1
Tetrachloroethene	**0.085**	**J**	0.20	0.040	ppb v/v			03/14/14 01:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 01:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
Toluene	**0.36**		0.20	0.12	ppb v/v			03/14/14 01:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 01:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 01:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 01:01	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/14/14 01:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 01:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 01:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/14/14 01:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 01:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 01:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 01:01	1

Client Sample ID: PCV-IA1-B16
Lab Sample ID: 140-1037-7
Date Collected: 03/10/14 16:42
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 01:01	1
1,2,4-Trimethylbenzene	**0.49**	**J**	0.98	0.31	ug/m3			03/14/14 01:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 01:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 01:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 01:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 01:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 01:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 01:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 01:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 01:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 01:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 01:01	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/14/14 01:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 01:01	1
2-Butanone (MEK)	**1.1**	**J**	2.9	0.59	ug/m3			03/14/14 01:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 01:01	1
2-Methylbutane	**2.1**		1.5	0.091	ug/m3			03/14/14 01:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 01:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 01:01	1
Acetone	**10**	**J**	12	3.3	ug/m3			03/14/14 01:01	1
Benzene	**0.83**		0.64	0.18	ug/m3			03/14/14 01:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 01:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 01:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 01:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 01:01	1
Carbon disulfide	**0.11**	**J**	1.6	0.097	ug/m3			03/14/14 01:01	1
Carbon tetrachloride	**0.39**	**J**	1.3	0.24	ug/m3			03/14/14 01:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 01:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 01:01	1
Chloroform	**0.23**	**J**	0.98	0.19	ug/m3			03/14/14 01:01	1
Chloromethane	**0.97**	**J**	1.0	0.33	ug/m3			03/14/14 01:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 01:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 01:01	1
Cyclohexane	**0.15**	**J**	1.7	0.14	ug/m3			03/14/14 01:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 01:01	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/14/14 01:01	1
Ethanol	**51**		3.8	3.8	ug/m3			03/14/14 01:01	1
Ethylbenzene	**0.57**	**J**	0.87	0.30	ug/m3			03/14/14 01:01	1
Heptane	**0.48**	**J**	2.0	0.19	ug/m3			03/14/14 01:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 01:01	1
Hexane	**0.92**	**J**	1.8	0.11	ug/m3			03/14/14 01:01	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 01:01	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 01:01	1
Isopropyl alcohol	**3.3**	**J**	4.9	0.23	ug/m3			03/14/14 01:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 01:01	1
Methylene Chloride	**2.4**		1.7	0.45	ug/m3			03/14/14 01:01	1
m-Xylene & p-Xylene	**2.8**		0.87	0.52	ug/m3			03/14/14 01:01	1

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Date Collected: 03/10/14 16:42
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 01:01	1
o-Xylene	**1.1**		0.87	0.26	ug/m3			03/14/14 01:01	1
Propene	**2.5**	**cn**	0.86	0.13	ug/m3			03/14/14 01:01	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 01:01	1
Tetrachloroethene	**0.58**	**J**	1.4	0.27	ug/m3			03/14/14 01:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 01:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 01:01	1
Toluene	**1.4**		0.75	0.45	ug/m3			03/14/14 01:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 01:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 01:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 01:01	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/14/14 01:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/14/14 01:01*	*1*

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Date Collected: 03/10/14 16:35
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.067**	**J**	0.20	0.031	ppb v/v			03/14/14 01:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 01:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 01:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 01:46	1
1,2,4-Trimethylbenzene	**0.11**	**J**	0.20	0.063	ppb v/v			03/14/14 01:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 01:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 01:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 01:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 01:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 01:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 01:46	1
2,2,4-Trimethylpentane	**0.075**	**J**	0.50	0.039	ppb v/v			03/14/14 01:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
2-Butanone (MEK)	**0.27**	**J**	1.0	0.20	ppb v/v			03/14/14 01:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 01:46	1
2-Methylbutane	**0.67**		0.50	0.031	ppb v/v			03/14/14 01:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA3-B16
Date Collected: 03/10/14 16:35
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	**0.095**	**J**	0.40	0.066	ppb v/v			03/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	**0.057**	**J**	0.50	0.045	ppb v/v			03/14/14 01:46	1
Acetone	**6.1**		5.0	1.4	ppb v/v			03/14/14 01:46	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/14/14 01:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 01:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 01:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 01:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 01:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 01:46	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/14/14 01:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 01:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 01:46	1
Chloroform	**0.13**	**J**	0.20	0.038	ppb v/v			03/14/14 01:46	1
Chloromethane	**0.59**		0.50	0.16	ppb v/v			03/14/14 01:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 01:46	1
Cyclohexane	**0.12**	**J**	0.50	0.040	ppb v/v			03/14/14 01:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 01:46	1
Dichlorodifluoromethane	**0.47**		0.20	0.068	ppb v/v			03/14/14 01:46	1
Ethanol	**47**		2.0	2.0	ppb v/v			03/14/14 01:46	1
Ethylbenzene	**0.24**		0.20	0.068	ppb v/v			03/14/14 01:46	1
Heptane	**0.17**	**J**	0.50	0.047	ppb v/v			03/14/14 01:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 01:46	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/14/14 01:46	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 01:46	1
Isopropyl alcohol	**3.0**		2.0	0.094	ppb v/v			03/14/14 01:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 01:46	1
Methylene Chloride	**1.4**		0.50	0.13	ppb v/v			03/14/14 01:46	1
m-Xylene & p-Xylene	**1.5**		0.20	0.12	ppb v/v			03/14/14 01:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 01:46	1
o-Xylene	**0.45**		0.20	0.061	ppb v/v			03/14/14 01:46	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/14/14 01:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 01:46	1
Tetrachloroethene	**0.064**	**J**	0.20	0.040	ppb v/v			03/14/14 01:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 01:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
Toluene	**0.29**		0.20	0.12	ppb v/v			03/14/14 01:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 01:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 01:46	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/14/14 01:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 01:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/14/14 01:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA3-B16
Date Collected: 03/10/14 16:35
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 01:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 01:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 01:46	1
1,2,4-Trimethylbenzene	**0.53**	**J**	0.98	0.31	ug/m3			03/14/14 01:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 01:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 01:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 01:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 01:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 01:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 01:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 01:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 01:46	1
2,2,4-Trimethylpentane	**0.35**	**J**	2.3	0.18	ug/m3			03/14/14 01:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 01:46	1
2-Butanone (MEK)	**0.78**	**J**	2.9	0.59	ug/m3			03/14/14 01:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 01:46	1
2-Methylbutane	**2.0**		1.5	0.091	ug/m3			03/14/14 01:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 01:46	1
4-Ethyltoluene	**0.47**	**J**	2.0	0.32	ug/m3			03/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	**0.23**	**J**	2.0	0.18	ug/m3			03/14/14 01:46	1
Acetone	**15**		12	3.3	ug/m3			03/14/14 01:46	1
Benzene	**0.73**		0.64	0.18	ug/m3			03/14/14 01:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 01:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 01:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 01:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 01:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 01:46	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/14/14 01:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 01:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 01:46	1
Chloroform	**0.63**	**J**	0.98	0.19	ug/m3			03/14/14 01:46	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/14/14 01:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 01:46	1
Cyclohexane	**0.41**	**J**	1.7	0.14	ug/m3			03/14/14 01:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 01:46	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/14/14 01:46	1
Ethanol	**89**		3.8	3.8	ug/m3			03/14/14 01:46	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/14/14 01:46	1
Heptane	**0.70**	**J**	2.0	0.19	ug/m3			03/14/14 01:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 01:46	1
Hexane	**0.53**	**J**	1.8	0.11	ug/m3			03/14/14 01:46	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 01:46	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 01:46	1
Isopropyl alcohol	**7.3**		4.9	0.23	ug/m3			03/14/14 01:46	1

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Date Collected: 03/10/14 16:35

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 01:46	1
Methylene Chloride	**4.9**		1.7	0.45	ug/m3			03/14/14 01:46	1
m-Xylene & p-Xylene	**6.6**		0.87	0.52	ug/m3			03/14/14 01:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 01:46	1
o-Xylene	**1.9**		0.87	0.26	ug/m3			03/14/14 01:46	1
Propene	**2.3**	**cn**	0.86	0.13	ug/m3			03/14/14 01:46	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 01:46	1
Tetrachloroethene	**0.44**	**J**	1.4	0.27	ug/m3			03/14/14 01:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 01:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 01:46	1
Toluene	**1.1**		0.75	0.45	ug/m3			03/14/14 01:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 01:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 01:46	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 01:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 01:46*	*1*

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Date Collected: 03/10/14 17:08

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 02:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/14/14 02:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 02:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 02:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 02:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 02:31	1
1,2,4-Trimethylbenzene	**0.12**	**J**	0.20	0.063	ppb v/v			03/14/14 02:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 02:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 02:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 02:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 02:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 02:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 02:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 02:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 02:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 02:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 02:31	1
2,2,4-Trimethylpentane	**0.043**	**J**	0.50	0.039	ppb v/v			03/14/14 02:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
2-Butanone (MEK)	**0.28**	**J**	1.0	0.20	ppb v/v			03/14/14 02:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA2-B18
Date Collected: 03/10/14 17:08
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 02:31	1
2-Methylbutane	**0.84**		0.50	0.031	ppb v/v			03/14/14 02:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 02:31	1
4-Methyl-2-pentanone (MIBK)	**2.8**		0.50	0.045	ppb v/v			03/14/14 02:31	1
Acetone	**19**		5.0	1.4	ppb v/v			03/14/14 02:31	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/14/14 02:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 02:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 02:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 02:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 02:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 02:31	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/14/14 02:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 02:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 02:31	1
Chloroform	**0.063**	**J**	0.20	0.038	ppb v/v			03/14/14 02:31	1
Chloromethane	**0.61**		0.50	0.16	ppb v/v			03/14/14 02:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 02:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 02:31	1
Cyclohexane	**0.080**	**J**	0.50	0.040	ppb v/v			03/14/14 02:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 02:31	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/14/14 02:31	1
Ethanol	**490**	**E**	2.0	2.0	ppb v/v			03/14/14 02:31	1
Ethylbenzene	**0.24**		0.20	0.068	ppb v/v			03/14/14 02:31	1
Heptane	**0.13**	**J**	0.50	0.047	ppb v/v			03/14/14 02:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 02:31	1
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/14/14 02:31	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 02:31	1
Isopropyl alcohol	**2.5**		2.0	0.094	ppb v/v			03/14/14 02:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 02:31	1
Methylene Chloride	**0.52**		0.50	0.13	ppb v/v			03/14/14 02:31	1
m-Xylene & p-Xylene	**1.3**		0.20	0.12	ppb v/v			03/14/14 02:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 02:31	1
o-Xylene	**0.54**		0.20	0.061	ppb v/v			03/14/14 02:31	1
Propene	**1.7**	**cn**	0.50	0.077	ppb v/v			03/14/14 02:31	1
Styrene	**1.8**		0.20	0.058	ppb v/v			03/14/14 02:31	1
Tetrachloroethene	**0.098**	**J**	0.20	0.040	ppb v/v			03/14/14 02:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 02:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
Toluene	**0.46**		0.20	0.12	ppb v/v			03/14/14 02:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 02:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 02:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 02:31	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/14/14 02:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 02:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 02:31	1

Client Sample ID: PCV-IA2-B18
Lab Sample ID: 140-1037-9
Date Collected: 03/10/14 17:08
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/14/14 02:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 02:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 02:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 02:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 02:31	1
1,2,4-Trimethylbenzene	**0.60**	**J**	0.98	0.31	ug/m3			03/14/14 02:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 02:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 02:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 02:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 02:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 02:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 02:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 02:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 02:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 02:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 02:31	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/14/14 02:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 02:31	1
2-Butanone (MEK)	**0.83**	**J**	2.9	0.59	ug/m3			03/14/14 02:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 02:31	1
2-Methylbutane	**2.5**		1.5	0.091	ug/m3			03/14/14 02:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 02:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 02:31	1
4-Methyl-2-pentanone (MIBK)	**12**		2.0	0.18	ug/m3			03/14/14 02:31	1
Acetone	**45**		12	3.3	ug/m3			03/14/14 02:31	1
Benzene	**0.73**		0.64	0.18	ug/m3			03/14/14 02:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 02:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 02:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 02:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 02:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 02:31	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/14/14 02:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 02:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 02:31	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/14/14 02:31	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 02:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 02:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 02:31	1
Cyclohexane	**0.27**	**J**	1.7	0.14	ug/m3			03/14/14 02:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 02:31	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 02:31	1
Ethanol	**920**	**E**	3.8	3.8	ug/m3			03/14/14 02:31	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/14/14 02:31	1
Heptane	**0.53**	**J**	2.0	0.19	ug/m3			03/14/14 02:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 02:31	1
Hexane	**0.55**	**J**	1.8	0.11	ug/m3			03/14/14 02:31	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 02:31	1

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Date Collected: 03/10/14 17:08

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 02:31	1
Isopropyl alcohol	**6.2**		4.9	0.23	ug/m3			03/14/14 02:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 02:31	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/14/14 02:31	1
m-Xylene & p-Xylene	**5.4**		0.87	0.52	ug/m3			03/14/14 02:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 02:31	1
o-Xylene	**2.4**		0.87	0.26	ug/m3			03/14/14 02:31	1
Propene	**2.9**	**cn**	0.86	0.13	ug/m3			03/14/14 02:31	1
Styrene	**7.8**		0.85	0.25	ug/m3			03/14/14 02:31	1
Tetrachloroethene	**0.67**	**J**	1.4	0.27	ug/m3			03/14/14 02:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 02:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 02:31	1
Toluene	**1.7**		0.75	0.45	ug/m3			03/14/14 02:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 02:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 02:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 02:31	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 02:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/14/14 02:31*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**470**		8.0	8.0	ppb v/v			03/14/14 08:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**880**		15	15	ug/m3			03/14/14 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/14/14 08:31*	*1*

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Date Collected: 03/10/14 17:12

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 03:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.061**	**J**	0.20	0.031	ppb v/v			03/14/14 03:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 03:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 03:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 03:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 03:16	1
1,2,4-Trimethylbenzene	**0.085**	**J**	0.20	0.063	ppb v/v			03/14/14 03:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 03:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 03:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA3-B18
Date Collected: 03/10/14 17:12
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 03:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 03:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 03:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 03:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 03:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 03:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 03:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 03:16	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 03:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
2-Butanone (MEK)	**0.23**	**J**	1.0	0.20	ppb v/v			03/14/14 03:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 03:16	1
2-Methylbutane	**0.63**		0.50	0.031	ppb v/v			03/14/14 03:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 03:16	1
4-Methyl-2-pentanone (MIBK)	**0.050**	**J**	0.50	0.045	ppb v/v			03/14/14 03:16	1
Acetone	**3.3**	**J**	5.0	1.4	ppb v/v			03/14/14 03:16	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/14/14 03:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 03:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 03:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 03:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 03:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 03:16	1
Carbon tetrachloride	**0.061**	**J**	0.20	0.038	ppb v/v			03/14/14 03:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 03:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 03:16	1
Chloroform	**0.043**	**J**	0.20	0.038	ppb v/v			03/14/14 03:16	1
Chloromethane	**0.46**	**J**	0.50	0.16	ppb v/v			03/14/14 03:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 03:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 03:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 03:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 03:16	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/14/14 03:16	1
Ethanol	**32**		2.0	2.0	ppb v/v			03/14/14 03:16	1
Ethylbenzene	**0.37**		0.20	0.068	ppb v/v			03/14/14 03:16	1
Heptane	**0.075**	**J**	0.50	0.047	ppb v/v			03/14/14 03:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 03:16	1
Hexane	**0.17**	**J**	0.50	0.032	ppb v/v			03/14/14 03:16	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 03:16	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 03:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 03:16	1
Methylene Chloride	**2.0**		0.50	0.13	ppb v/v			03/14/14 03:16	1
m-Xylene & p-Xylene	**2.0**		0.20	0.12	ppb v/v			03/14/14 03:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 03:16	1
o-Xylene	**0.74**		0.20	0.061	ppb v/v			03/14/14 03:16	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/14/14 03:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 03:16	1

Client Sample ID: PCV-IA3-B18
Lab Sample ID: 140-1037-10
Date Collected: 03/10/14 17:12
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 03:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 03:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
Toluene	**0.26**		0.20	0.12	ppb v/v			03/14/14 03:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 03:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 03:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 03:16	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/14/14 03:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 03:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 03:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.46**	**J**	1.5	0.24	ug/m3			03/14/14 03:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 03:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 03:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 03:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 03:16	1
1,2,4-Trimethylbenzene	**0.42**	**J**	0.98	0.31	ug/m3			03/14/14 03:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 03:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 03:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 03:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 03:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 03:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 03:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 03:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 03:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 03:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 03:16	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 03:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 03:16	1
2-Butanone (MEK)	**0.68**	**J**	2.9	0.59	ug/m3			03/14/14 03:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 03:16	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/14/14 03:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 03:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 03:16	1
4-Methyl-2-pentanone (MIBK)	**0.20**	**J**	2.0	0.18	ug/m3			03/14/14 03:16	1
Acetone	**7.9**	**J**	12	3.3	ug/m3			03/14/14 03:16	1
Benzene	**0.64**		0.64	0.18	ug/m3			03/14/14 03:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 03:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 03:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 03:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 03:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 03:16	1
Carbon tetrachloride	**0.38**	**J**	1.3	0.24	ug/m3			03/14/14 03:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 03:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 03:16	1
Chloroform	**0.21**	**J**	0.98	0.19	ug/m3			03/14/14 03:16	1

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Date Collected: 03/10/14 17:12

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	**0.95**	**J**	1.0	0.33	ug/m3			03/14/14 03:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 03:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 03:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 03:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 03:16	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/14/14 03:16	1
Ethanol	**59**		3.8	3.8	ug/m3			03/14/14 03:16	1
Ethylbenzene	**1.6**		0.87	0.30	ug/m3			03/14/14 03:16	1
Heptane	**0.31**	**J**	2.0	0.19	ug/m3			03/14/14 03:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 03:16	1
Hexane	**0.59**	**J**	1.8	0.11	ug/m3			03/14/14 03:16	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 03:16	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 03:16	1
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/14/14 03:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 03:16	1
Methylene Chloride	**6.9**		1.7	0.45	ug/m3			03/14/14 03:16	1
m-Xylene & p-Xylene	**8.5**		0.87	0.52	ug/m3			03/14/14 03:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 03:16	1
o-Xylene	**3.2**		0.87	0.26	ug/m3			03/14/14 03:16	1
Propene	**2.4**	**cn**	0.86	0.13	ug/m3			03/14/14 03:16	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 03:16	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 03:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 03:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 03:16	1
Toluene	**0.98**		0.75	0.45	ug/m3			03/14/14 03:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 03:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 03:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 03:16	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/14/14 03:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/14/14 03:16*	*1*

Client Sample ID: PCV-IA1-B18

Lab Sample ID: 140-1037-11

Date Collected: 03/10/14 17:18

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 04:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.060**	**J**	0.20	0.031	ppb v/v			03/14/14 04:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 04:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 04:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 04:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 04:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA1-B18
Date Collected: 03/10/14 17:18
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.081**	**J**	0.20	0.063	ppb v/v			03/14/14 04:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 04:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 04:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 04:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 04:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 04:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 04:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 04:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 04:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 04:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
2-Butanone (MEK)	**0.36**	**J**	1.0	0.20	ppb v/v			03/14/14 04:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 04:01	1
2-Methylbutane	**0.62**		0.50	0.031	ppb v/v			03/14/14 04:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 04:01	1
4-Methyl-2-pentanone (MIBK)	**0.11**	**J**	0.50	0.045	ppb v/v			03/14/14 04:01	1
Acetone	**4.1**	**J**	5.0	1.4	ppb v/v			03/14/14 04:01	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 04:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 04:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 04:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 04:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 04:01	1
Carbon disulfide	**0.037**	**J**	0.50	0.031	ppb v/v			03/14/14 04:01	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/14/14 04:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 04:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 04:01	1
Chloroform	**0.041**	**J**	0.20	0.038	ppb v/v			03/14/14 04:01	1
Chloromethane	**0.48**	**J**	0.50	0.16	ppb v/v			03/14/14 04:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 04:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 04:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 04:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 04:01	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/14/14 04:01	1
Ethanol	**25**		2.0	2.0	ppb v/v			03/14/14 04:01	1
Ethylbenzene	**0.23**		0.20	0.068	ppb v/v			03/14/14 04:01	1
Heptane	**0.059**	**J**	0.50	0.047	ppb v/v			03/14/14 04:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 04:01	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/14/14 04:01	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 04:01	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/14/14 04:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 04:01	1
Methylene Chloride	**0.45**	**J**	0.50	0.13	ppb v/v			03/14/14 04:01	1
m-Xylene & p-Xylene	**1.3**		0.20	0.12	ppb v/v			03/14/14 04:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 04:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA1-B18
Date Collected: 03/10/14 17:18
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.47		0.20	0.061	ppb v/v			03/14/14 04:01	1
Propene	1.4	cn	0.50	0.077	ppb v/v			03/14/14 04:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 04:01	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 04:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 04:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
Toluene	0.22		0.20	0.12	ppb v/v			03/14/14 04:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 04:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 04:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 04:01	1
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v			03/14/14 04:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 04:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 04:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3			03/14/14 04:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 04:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 04:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 04:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 04:01	1
1,2,4-Trimethylbenzene	0.40	J	0.98	0.31	ug/m3			03/14/14 04:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 04:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 04:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 04:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 04:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 04:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 04:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 04:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 04:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 04:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 04:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 04:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 04:01	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/14/14 04:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 04:01	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/14/14 04:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 04:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 04:01	1
4-Methyl-2-pentanone (MIBK)	0.47	J	2.0	0.18	ug/m3			03/14/14 04:01	1
Acetone	9.7	J	12	3.3	ug/m3			03/14/14 04:01	1
Benzene	0.59	J	0.64	0.18	ug/m3			03/14/14 04:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 04:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 04:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 04:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 04:01	1
Carbon disulfide	0.12	J	1.6	0.097	ug/m3			03/14/14 04:01	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/14/14 04:01	1

Client Sample ID: PCV-IA1-B18

Lab Sample ID: 140-1037-11

Date Collected: 03/10/14 17:18

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 04:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 04:01	1
Chloroform	**0.20**	**J**	0.98	0.19	ug/m3			03/14/14 04:01	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/14/14 04:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 04:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 04:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 04:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 04:01	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 04:01	1
Ethanol	**48**		3.8	3.8	ug/m3			03/14/14 04:01	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/14/14 04:01	1
Heptane	**0.24**	**J**	2.0	0.19	ug/m3			03/14/14 04:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 04:01	1
Hexane	**0.44**	**J**	1.8	0.11	ug/m3			03/14/14 04:01	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 04:01	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 04:01	1
Isopropyl alcohol	**3.5**	**J**	4.9	0.23	ug/m3			03/14/14 04:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 04:01	1
Methylene Chloride	**1.6**	**J**	1.7	0.45	ug/m3			03/14/14 04:01	1
m-Xylene & p-Xylene	**5.4**		0.87	0.52	ug/m3			03/14/14 04:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 04:01	1
o-Xylene	**2.0**		0.87	0.26	ug/m3			03/14/14 04:01	1
Propene	**2.4**	**cn**	0.86	0.13	ug/m3			03/14/14 04:01	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 04:01	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 04:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 04:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 04:01	1
Toluene	**0.81**		0.75	0.45	ug/m3			03/14/14 04:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 04:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 04:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 04:01	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/14/14 04:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 04:01*	*1*

Client Sample ID: PCV-IATC-B18

Lab Sample ID: 140-1037-12

Date Collected: 03/10/14 17:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/14/14 04:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 04:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 04:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 04:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 04:46	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 04:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 04:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 04:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 04:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 04:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 04:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 04:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 04:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 04:46	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 04:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/14/14 04:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 04:46	1
2-Methylbutane	**0.67**		0.50	0.031	ppb v/v			03/14/14 04:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 04:46	1
4-Methyl-2-pentanone (MIBK)	**0.10**	**J**	0.50	0.045	ppb v/v			03/14/14 04:46	1
Acetone	**2.7**	**J**	5.0	1.4	ppb v/v			03/14/14 04:46	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 04:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 04:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 04:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 04:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 04:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 04:46	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/14/14 04:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 04:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 04:46	1
Chloroform	**0.045**	**J**	0.20	0.038	ppb v/v			03/14/14 04:46	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/14/14 04:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 04:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 04:46	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 04:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 04:46	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/14/14 04:46	1
Ethanol	**25**		2.0	2.0	ppb v/v			03/14/14 04:46	1
Ethylbenzene	**0.27**		0.20	0.068	ppb v/v			03/14/14 04:46	1
Heptane	**0.058**	**J**	0.50	0.047	ppb v/v			03/14/14 04:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 04:46	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/14/14 04:46	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 04:46	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 04:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 04:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**0.50**		0.50	0.13	ppb v/v			03/14/14 04:46	1
m-Xylene & p-Xylene	**1.4**		0.20	0.12	ppb v/v			03/14/14 04:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 04:46	1
o-Xylene	**0.56**		0.20	0.061	ppb v/v			03/14/14 04:46	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/14/14 04:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 04:46	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 04:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 04:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
Toluene	**0.22**		0.20	0.12	ppb v/v			03/14/14 04:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 04:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 04:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 04:46	1
Trichlorofluoromethane	**0.24**		0.20	0.024	ppb v/v			03/14/14 04:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 04:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/14/14 04:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 04:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 04:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 04:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 04:46	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 04:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 04:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 04:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 04:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 04:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 04:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 04:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 04:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 04:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 04:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 04:46	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 04:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 04:46	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/14/14 04:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 04:46	1
2-Methylbutane	**2.0**		1.5	0.091	ug/m3			03/14/14 04:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 04:46	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 04:46	1
4-Methyl-2-pentanone (MIBK)	**0.43**	**J**	2.0	0.18	ug/m3			03/14/14 04:46	1
Acetone	**6.3**	**J**	12	3.3	ug/m3			03/14/14 04:46	1
Benzene	**0.61**	**J**	0.64	0.18	ug/m3			03/14/14 04:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 04:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 04:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 04:46	1

Client Sample ID: PCV-IATC-B18

Lab Sample ID: 140-1037-12

Date Collected: 03/10/14 17:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 04:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 04:46	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			03/14/14 04:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 04:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 04:46	1
Chloroform	**0.22**	**J**	0.98	0.19	ug/m3			03/14/14 04:46	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 04:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 04:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 04:46	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 04:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 04:46	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/14/14 04:46	1
Ethanol	**47**		3.8	3.8	ug/m3			03/14/14 04:46	1
Ethylbenzene	**1.2**		0.87	0.30	ug/m3			03/14/14 04:46	1
Heptane	**0.24**	**J**	2.0	0.19	ug/m3			03/14/14 04:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 04:46	1
Hexane	**0.47**	**J**	1.8	0.11	ug/m3			03/14/14 04:46	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 04:46	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 04:46	1
Isopropyl alcohol	**2.9**	**J**	4.9	0.23	ug/m3			03/14/14 04:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 04:46	1
Methylene Chloride	**1.7**		1.7	0.45	ug/m3			03/14/14 04:46	1
m-Xylene & p-Xylene	**6.2**		0.87	0.52	ug/m3			03/14/14 04:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 04:46	1
o-Xylene	**2.4**		0.87	0.26	ug/m3			03/14/14 04:46	1
Propene	**2.4**	**cn**	0.86	0.13	ug/m3			03/14/14 04:46	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 04:46	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 04:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 04:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 04:46	1
Toluene	**0.84**		0.75	0.45	ug/m3			03/14/14 04:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 04:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 04:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 04:46	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/14/14 04:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 04:46*	*1*

Client Sample ID: PCV-AMB1

Lab Sample ID: 140-1037-13

Date Collected: 03/10/14 16:59

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 06:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 06:16	1

Client Sample ID: PCV-AMB1

Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**J**	0.20	0.031	ppb v/v			03/14/14 06:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 06:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 06:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 06:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 06:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 06:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 06:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 06:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 06:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 06:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 06:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 06:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 06:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 06:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 06:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 06:16	1
2,2,4-Trimethylpentane	**0.051**	**J**	0.50	0.039	ppb v/v			03/14/14 06:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
2-Butanone (MEK)	**0.41**	**J**	1.0	0.20	ppb v/v			03/14/14 06:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 06:16	1
2-Methylbutane	**1.1**		0.50	0.031	ppb v/v			03/14/14 06:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 06:16	1
4-Methyl-2-pentanone (MIBK)	**4.4**		0.50	0.045	ppb v/v			03/14/14 06:16	1
Acetone	**5.0**		5.0	1.4	ppb v/v			03/14/14 06:16	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/14/14 06:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 06:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 06:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 06:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 06:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 06:16	1
Carbon tetrachloride	**0.075**	**J**	0.20	0.038	ppb v/v			03/14/14 06:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 06:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 06:16	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 06:16	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/14/14 06:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 06:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 06:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 06:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 06:16	1
Dichlorodifluoromethane	**0.53**		0.20	0.068	ppb v/v			03/14/14 06:16	1
Ethanol	**11**		2.0	2.0	ppb v/v			03/14/14 06:16	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 06:16	1
Heptane	**0.060**	**J**	0.50	0.047	ppb v/v			03/14/14 06:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 06:16	1
Hexane	**0.20**	**J**	0.50	0.032	ppb v/v			03/14/14 06:16	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 06:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 06:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 06:16	1
Methylene Chloride	**1.9**		0.50	0.13	ppb v/v			03/14/14 06:16	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 06:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 06:16	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 06:16	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/14/14 06:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 06:16	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 06:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 06:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
Toluene	**0.26**		0.20	0.12	ppb v/v			03/14/14 06:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 06:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 06:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 06:16	1
Trichlorofluoromethane	**0.31**		0.20	0.024	ppb v/v			03/14/14 06:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 06:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 06:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 06:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.59**	**J**	1.5	0.24	ug/m3			03/14/14 06:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 06:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 06:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 06:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 06:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 06:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 06:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 06:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 06:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 06:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 06:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 06:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 06:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 06:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 06:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 06:16	1
2,2,4-Trimethylpentane	**0.24**	**J**	2.3	0.18	ug/m3			03/14/14 06:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 06:16	1
2-Butanone (MEK)	**1.2**	**J**	2.9	0.59	ug/m3			03/14/14 06:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 06:16	1
2-Methylbutane	**3.2**		1.5	0.091	ug/m3			03/14/14 06:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 06:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 06:16	1
4-Methyl-2-pentanone (MIBK)	**18**		2.0	0.18	ug/m3			03/14/14 06:16	1
Acetone	**12**		12	3.3	ug/m3			03/14/14 06:16	1
Benzene	**0.71**		0.64	0.18	ug/m3			03/14/14 06:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 06:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 06:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 06:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 06:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 06:16	1
Carbon tetrachloride	**0.47**	**J**	1.3	0.24	ug/m3			03/14/14 06:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 06:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 06:16	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 06:16	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 06:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 06:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 06:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 06:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 06:16	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			03/14/14 06:16	1
Ethanol	**20**		3.8	3.8	ug/m3			03/14/14 06:16	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 06:16	1
Heptane	**0.25**	**J**	2.0	0.19	ug/m3			03/14/14 06:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 06:16	1
Hexane	**0.69**	**J**	1.8	0.11	ug/m3			03/14/14 06:16	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 06:16	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 06:16	1
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/14/14 06:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 06:16	1
Methylene Chloride	**6.7**		1.7	0.45	ug/m3			03/14/14 06:16	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 06:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 06:16	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 06:16	1
Propene	**2.3**	**cn**	0.86	0.13	ug/m3			03/14/14 06:16	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 06:16	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 06:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 06:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 06:16	1
Toluene	**0.97**		0.75	0.45	ug/m3			03/14/14 06:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 06:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 06:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 06:16	1
Trichlorofluoromethane	**1.7**		1.1	0.13	ug/m3			03/14/14 06:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 06:16*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
140-1037-1	PCV-IA1-B10	103							
140-1037-2	PCV-IA2-B10	99							
140-1037-2 - DL	PCV-IA2-B10	93							
140-1037-3	PCV-IA3-B10	102							
140-1037-4	PCV-IALC-B10	101							
140-1037-5	PCV-AMB-2	98							
140-1037-6	PCV-IA2-B16	101							
140-1037-7	PCV-IA1-B16	102							
140-1037-8	PCV-IA3-B16	103							
140-1037-9	PCV-IA2-B18	99							
140-1037-9 - DL	PCV-IA2-B18	95							
140-1037-10	PCV-IA3-B18	104							
140-1037-11	PCV-IA1-B18	103							
140-1037-12	PCV-IATC-B18	106							
140-1037-13	PCV-AMB1	103							
LCS 140-951/1002	Lab Control Sample	105							
MB 140-951/5	Method Blank	100							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-951/5
Matrix: Air
Analysis Batch: 951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/13/14 14:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 14:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 14:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 14:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 14:20	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/13/14 14:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 14:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 14:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 14:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 14:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 14:20	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/13/14 14:20	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 14:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 14:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 14:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 14:20	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/13/14 14:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 14:20	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/13/14 14:20	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 14:20	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/13/14 14:20	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 14:20	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/13/14 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/13/14 14:20	1
Acetone	ND		5.0	1.4	ppb v/v			03/13/14 14:20	1
Benzene	ND		0.20	0.056	ppb v/v			03/13/14 14:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 14:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 14:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 14:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 14:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 14:20	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/13/14 14:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 14:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 14:20	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 14:20	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/13/14 14:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 14:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 14:20	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/13/14 14:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 14:20	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/13/14 14:20	1
Ethanol	ND		2.0	2.0	ppb v/v			03/13/14 14:20	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/13/14 14:20	1
Heptane	ND		0.50	0.047	ppb v/v			03/13/14 14:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 14:20	1
Hexane	ND		0.50	0.032	ppb v/v			03/13/14 14:20	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-951/5
Matrix: Air
Analysis Batch: 951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/13/14 14:20	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 14:20	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/13/14 14:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 14:20	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/13/14 14:20	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/13/14 14:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 14:20	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/13/14 14:20	1
Propene	ND		0.50	0.077	ppb v/v			03/13/14 14:20	1
Styrene	ND		0.20	0.058	ppb v/v			03/13/14 14:20	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/13/14 14:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 14:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 14:20	1
Toluene	ND		0.20	0.12	ppb v/v			03/13/14 14:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 14:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 14:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 14:20	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/13/14 14:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 14:20	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/13/14 14:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 14:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 14:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 14:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 14:20	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/13/14 14:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 14:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 14:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 14:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 14:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 14:20	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/13/14 14:20	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 14:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 14:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 14:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 14:20	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/13/14 14:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 14:20	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/13/14 14:20	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 14:20	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/13/14 14:20	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 14:20	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/13/14 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/13/14 14:20	1
Acetone	ND		12	3.3	ug/m3			03/13/14 14:20	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-951/5
Matrix: Air
Analysis Batch: 951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/13/14 14:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 14:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 14:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 14:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 14:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 14:20	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/13/14 14:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 14:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 14:20	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 14:20	1
Chloromethane	ND		1.0	0.33	ug/m3			03/13/14 14:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 14:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 14:20	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/13/14 14:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 14:20	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/13/14 14:20	1
Ethanol	ND		3.8	3.8	ug/m3			03/13/14 14:20	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/13/14 14:20	1
Heptane	ND		2.0	0.19	ug/m3			03/13/14 14:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 14:20	1
Hexane	ND		1.8	0.11	ug/m3			03/13/14 14:20	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 14:20	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 14:20	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/13/14 14:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 14:20	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/13/14 14:20	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/13/14 14:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 14:20	1
o-Xylene	ND		0.87	0.26	ug/m3			03/13/14 14:20	1
Propene	ND		0.86	0.13	ug/m3			03/13/14 14:20	1
Styrene	ND		0.85	0.25	ug/m3			03/13/14 14:20	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/13/14 14:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 14:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 14:20	1
Toluene	ND		0.75	0.45	ug/m3			03/13/14 14:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 14:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 14:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 14:20	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/13/14 14:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 14:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*03/13/14 14:20*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-951/1002
Matrix: Air
Analysis Batch: 951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.07		ppb v/v		104	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.99		ppb v/v		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.13		ppb v/v		106	70 - 130
1,1,2-Trichloroethane	2.00	1.94		ppb v/v		97	70 - 130
1,1-Dichloroethane	2.00	1.86		ppb v/v		93	70 - 130
1,1-Dichloroethene	2.00	2.11		ppb v/v		105	70 - 130
1,2,4-Trichlorobenzene	2.00	1.87		ppb v/v		94	60 - 140
1,2,4-Trimethylbenzene	2.00	2.07		ppb v/v		103	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.01		ppb v/v		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.32		ppb v/v		116	60 - 140
1,2-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloroethane	2.00	2.15		ppb v/v		108	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,3,5-Trimethylbenzene	2.00	1.96		ppb v/v		98	70 - 130
1,3-Butadiene	2.00	2.31		ppb v/v		115	60 - 140
1,3-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	2.00	2.03		ppb v/v		102	70 - 130
1,4-Dioxane	2.00	1.85		ppb v/v		92	60 - 140
2,2,4-Trimethylpentane	2.00	1.97		ppb v/v		98	70 - 130
2,3-Dimethylpentane	2.00	2.15		ppb v/v		108	20 - 180
2-Butanone (MEK)	2.00	1.43		ppb v/v		71	60 - 140
2-Hexanone	2.00	1.72		ppb v/v		86	60 - 140
2-Methylbutane	2.00	2.26		ppb v/v		113	70 - 130
2-Methylpentane	2.00	1.84		ppb v/v		92	20 - 180
4-Ethyltoluene	2.00	2.01		ppb v/v		101	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.77		ppb v/v		89	60 - 140
Acetone	2.00	1.47	J	ppb v/v		74	60 - 140
Benzene	2.00	2.05		ppb v/v		103	70 - 130
Benzyl chloride	2.00	2.06		ppb v/v		103	70 - 130
Bromodichloromethane	2.00	2.18		ppb v/v		109	70 - 130
Bromoform	2.00	1.64		ppb v/v		82	60 - 140
Bromomethane	2.00	2.46		ppb v/v		123	70 - 130
Carbon disulfide	2.00	2.22		ppb v/v		111	70 - 130
Carbon tetrachloride	2.00	2.51		ppb v/v		125	70 - 130
Chlorobenzene	2.00	2.00		ppb v/v		100	70 - 130
Chloroethane	2.00	2.37		ppb v/v		119	70 - 130
Chloroform	2.00	2.10		ppb v/v		105	70 - 130
Chloromethane	2.00	2.21		ppb v/v		111	60 - 140
cis-1,2-Dichloroethene	2.00	1.97		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.10		ppb v/v		105	70 - 130
Cyclohexane	2.00	2.22		ppb v/v		111	70 - 130
Dibromochloromethane	2.00	1.96		ppb v/v		98	70 - 130
Dichlorodifluoromethane	2.00	2.39		ppb v/v		120	60 - 140
Ethanol	10.0	8.85		ppb v/v		89	20 - 180
Ethylbenzene	2.00	2.00		ppb v/v		100	70 - 130
Heptane	2.00	2.17		ppb v/v		108	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-951/1002
Matrix: Air
Analysis Batch: 951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.97		ppb v/v		98	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.03		ppb v/v		101	20 - 180
Indene	2.00	2.09		ppb v/v		104	20 - 180
Isopropyl alcohol	2.00	1.77		ppb v/v		89	60 - 140
Methyl tert-butyl ether	2.00	1.85		ppb v/v		92	60 - 140
Methylene Chloride	2.00	2.08		ppb v/v		104	70 - 130
m-Xylene & p-Xylene	4.00	4.15		ppb v/v		104	70 - 130
Naphthalene	2.00	2.02		ppb v/v		101	40 - 140
o-Xylene	2.00	2.01		ppb v/v		100	70 - 130
Propene	2.00	1.94		ppb v/v		97	60 - 140
Styrene	2.00	2.05		ppb v/v		102	70 - 130
Tetrachloroethene	2.00	2.00		ppb v/v		100	70 - 130
Tetrahydrofuran	2.00	1.51		ppb v/v		76	60 - 140
Thiophene	2.00	2.08		ppb v/v		104	20 - 180
Toluene	2.00	1.92		ppb v/v		96	70 - 130
trans-1,2-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	1.95		ppb v/v		97	70 - 130
Trichloroethene	2.00	2.12		ppb v/v		106	70 - 130
Trichlorofluoromethane	2.00	2.44		ppb v/v		122	60 - 140
Vinyl chloride	2.00	2.46		ppb v/v		123	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.3		ug/m3		104	70 - 130
1,1,2,2-Tetrachloroethane	14	13.7		ug/m3		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	16.3		ug/m3		106	70 - 130
1,1,2-Trichloroethane	11	10.6		ug/m3		97	70 - 130
1,1-Dichloroethane	8.1	7.51		ug/m3		93	70 - 130
1,1-Dichloroethene	7.9	8.36		ug/m3		105	70 - 130
1,2,4-Trichlorobenzene	15	13.9		ug/m3		94	60 - 140
1,2,4-Trimethylbenzene	9.8	10.2		ug/m3		103	70 - 130
1,2-Dibromoethane (EDB)	15	15.4		ug/m3		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	16.2		ug/m3		116	60 - 140
1,2-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,2-Dichloroethane	8.1	8.71		ug/m3		108	70 - 130
1,2-Dichloropropane	9.2	9.06		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	9.8	9.64		ug/m3		98	70 - 130
1,3-Butadiene	4.4	5.11		ug/m3		115	60 - 140
1,3-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,4-Dichlorobenzene	12	12.2		ug/m3		102	70 - 130
1,4-Dioxane	7.2	6.66		ug/m3		92	60 - 140
2,2,4-Trimethylpentane	9.3	9.20		ug/m3		98	70 - 130
2,3-Dimethylpentane	8.2	8.81		ug/m3		108	20 - 180
2-Butanone (MEK)	5.9	4.21		ug/m3		71	60 - 140
2-Hexanone	8.2	7.04		ug/m3		86	60 - 140
2-Methylbutane	5.9	6.67		ug/m3		113	70 - 130
2-Methylpentane	7.0	6.49		ug/m3		92	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-951/1002
Matrix: Air
Analysis Batch: 951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	9.89		ug/m3		101	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.27		ug/m3		89	60 - 140
Acetone	4.8	3.50	J	ug/m3		74	60 - 140
Benzene	6.4	6.56		ug/m3		103	70 - 130
Benzyl chloride	10	10.7		ug/m3		103	70 - 130
Bromodichloromethane	13	14.6		ug/m3		109	70 - 130
Bromoform	21	17.0		ug/m3		82	60 - 140
Bromomethane	7.8	9.55		ug/m3		123	70 - 130
Carbon disulfide	6.2	6.91		ug/m3		111	70 - 130
Carbon tetrachloride	13	15.8		ug/m3		125	70 - 130
Chlorobenzene	9.2	9.19		ug/m3		100	70 - 130
Chloroethane	5.3	6.26		ug/m3		119	70 - 130
Chloroform	9.8	10.2		ug/m3		105	70 - 130
Chloromethane	4.1	4.57		ug/m3		111	60 - 140
cis-1,2-Dichloroethene	7.9	7.82		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.52		ug/m3		105	70 - 130
Cyclohexane	6.9	7.65		ug/m3		111	70 - 130
Dibromochloromethane	17	16.7		ug/m3		98	70 - 130
Dichlorodifluoromethane	9.9	11.8		ug/m3		120	60 - 140
Ethanol	19	16.7		ug/m3		89	20 - 180
Ethylbenzene	8.7	8.70		ug/m3		100	70 - 130
Heptane	8.2	8.89		ug/m3		108	70 - 130
Hexachlorobutadiene	21	21.0		ug/m3		98	60 - 140
Hexane	7.0	6.58		ug/m3		93	70 - 130
Indane	9.7	9.80		ug/m3		101	20 - 180
Indene	9.5	9.93		ug/m3		104	20 - 180
Isopropyl alcohol	4.9	4.36		ug/m3		89	60 - 140
Methyl tert-butyl ether	7.2	6.66		ug/m3		92	60 - 140
Methylene Chloride	6.9	7.21		ug/m3		104	70 - 130
m-Xylene & p-Xylene	17	18.0		ug/m3		104	70 - 130
Naphthalene	10	10.6		ug/m3		101	40 - 140
o-Xylene	8.7	8.72		ug/m3		100	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	8.72		ug/m3		102	70 - 130
Tetrachloroethene	14	13.6		ug/m3		100	70 - 130
Tetrahydrofuran	5.9	4.46		ug/m3		76	60 - 140
Thiophene	6.9	7.14		ug/m3		104	20 - 180
Toluene	7.5	7.22		ug/m3		96	70 - 130
trans-1,2-Dichloroethene	7.9	8.17		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	8.83		ug/m3		97	70 - 130
Trichloroethene	11	11.4		ug/m3		106	70 - 130
Trichlorofluoromethane	11	13.7		ug/m3		122	60 - 140
Vinyl chloride	5.1	6.28		ug/m3		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*

Air - GC/MS VOA

Analysis Batch: 951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1037-1	PCV-IA1-B10	Total/NA	Air	TO-15	
140-1037-2	PCV-IA2-B10	Total/NA	Air	TO-15	
140-1037-2 - DL	PCV-IA2-B10	Total/NA	Air	TO-15	
140-1037-3	PCV-IA3-B10	Total/NA	Air	TO-15	
140-1037-4	PCV-IALC-B10	Total/NA	Air	TO-15	
140-1037-5	PCV-AMB-2	Total/NA	Air	TO-15	
140-1037-6	PCV-IA2-B16	Total/NA	Air	TO-15	
140-1037-7	PCV-IA1-B16	Total/NA	Air	TO-15	
140-1037-8	PCV-IA3-B16	Total/NA	Air	TO-15	
140-1037-9	PCV-IA2-B18	Total/NA	Air	TO-15	
140-1037-9 - DL	PCV-IA2-B18	Total/NA	Air	TO-15	
140-1037-10	PCV-IA3-B18	Total/NA	Air	TO-15	
140-1037-11	PCV-IA1-B18	Total/NA	Air	TO-15	
140-1037-12	PCV-IATC-B18	Total/NA	Air	TO-15	
140-1037-13	PCV-AMB1	Total/NA	Air	TO-15	
LCS 140-951/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-951/5	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: PCV-IA1-B10

Lab Sample ID: 140-1037-1

Date Collected: 03/10/14 16:15

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/13/14 19:42	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B10

Lab Sample ID: 140-1037-2

Date Collected: 03/10/14 14:00

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/13/14 20:27	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	50 mL	500 mL	951	03/14/14 07:46	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B10

Lab Sample ID: 140-1037-3

Date Collected: 03/10/14 16:15

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/13/14 21:14	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IALC-B10

Lab Sample ID: 140-1037-4

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/13/14 21:59	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

Date Collected: 03/10/14 15:30

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/13/14 22:44	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Date Collected: 03/10/14 16:30

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 00:15	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Date Collected: 03/10/14 16:42

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 01:01	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Date Collected: 03/10/14 16:35

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 01:46	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Date Collected: 03/10/14 17:08

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 02:31	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	50 mL	500 mL	951	03/14/14 08:31	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Date Collected: 03/10/14 17:12

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 03:16	HMT	TAL KNX
	Instrument ID: ME									

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Client Sample ID: PCV-IA1-B18

Lab Sample ID: 140-1037-11

Date Collected: 03/10/14 17:18

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 04:01	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IATC-B18

Lab Sample ID: 140-1037-12

Date Collected: 03/10/14 17:15

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 04:46	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB1

Lab Sample ID: 140-1037-13

Date Collected: 03/10/14 16:59

Matrix: Air

Date Received: 03/12/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	951	03/14/14 06:16	HMT	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-14
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1037-1	PCV-IA1-B10	Air	03/10/14 16:15	03/12/14 08:45
140-1037-2	PCV-IA2-B10	Air	03/10/14 14:00	03/12/14 08:45
140-1037-3	PCV-IA3-B10	Air	03/10/14 16:15	03/12/14 08:45
140-1037-4	PCV-IALC-B10	Air	03/10/14 16:30	03/12/14 08:45
140-1037-5	PCV-AMB-2	Air	03/10/14 15:30	03/12/14 08:45
140-1037-6	PCV-IA2-B16	Air	03/10/14 16:30	03/12/14 08:45
140-1037-7	PCV-IA1-B16	Air	03/10/14 16:42	03/12/14 08:45
140-1037-8	PCV-IA3-B16	Air	03/10/14 16:35	03/12/14 08:45
140-1037-9	PCV-IA2-B18	Air	03/10/14 17:08	03/12/14 08:45
140-1037-10	PCV-IA3-B18	Air	03/10/14 17:12	03/12/14 08:45
140-1037-11	PCV-IA1-B18	Air	03/10/14 17:18	03/12/14 08:45
140-1037-12	PCV-IATC-B18	Air	03/10/14 17:15	03/12/14 08:45
140-1037-13	PCV-AMB1	Air	03/10/14 16:59	03/12/14 08:45

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
PCV-IA1-B10	140-1037-1	103
PCV-IA2-B10	140-1037-2	99
PCV-IA2-B10 DL	140-1037-2 DL	93
PCV-IA3-B10	140-1037-3	102
PCV-IALC-B10	140-1037-4	101
PCV-AMB-2	140-1037-5	98
PCV-IA2-B16	140-1037-6	101
PCV-IA1-B16	140-1037-7	102
PCV-IA3-B16	140-1037-8	103
PCV-IA2-B18	140-1037-9	99
PCV-IA2-B18 DL	140-1037-9 DL	95
PCV-IA3-B18	140-1037-10	104
PCV-IA1-B18	140-1037-11	103
PCV-IATC-B18	140-1037-12	106
PCV-AMB1	140-1037-13	103
	MB 140-951/5	100
	LCS 140-951/1002	105

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC13-LCS.d

Lab ID: LCS 140-951/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.07	104	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.99	99	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.13	106	70-130	
1,1,2-Trichloroethane	2.00	1.94	97	70-130	
1,1-Dichloroethane	2.00	1.86	93	70-130	
1,1-Dichloroethene	2.00	2.11	105	70-130	
1,2,4-Trichlorobenzene	2.00	1.87	94	60-140	
1,2,4-Trimethylbenzene	2.00	2.07	103	70-130	
1,2-Dibromoethane (EDB)	2.00	2.01	100	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.32	116	60-140	
1,2-Dichlorobenzene	2.00	2.06	103	70-130	
1,2-Dichloroethane	2.00	2.15	108	70-130	
1,2-Dichloropropane	2.00	1.96	98	70-130	
1,3,5-Trimethylbenzene	2.00	1.96	98	70-130	
1,3-Butadiene	2.00	2.31	115	60-140	
1,3-Dichlorobenzene	2.00	2.06	103	70-130	
1,4-Dichlorobenzene	2.00	2.03	102	70-130	
1,4-Dioxane	2.00	1.85	92	60-140	
2,2,4-Trimethylpentane	2.00	1.97	98	70-130	
2,3-Dimethylpentane	2.00	2.15	108	20-180	
2-Butanone (MEK)	2.00	1.43	71	60-140	
2-Hexanone	2.00	1.72	86	60-140	
2-Methylbutane	2.00	2.26	113	70-130	
2-Methylpentane	2.00	1.84	92	20-180	
4-Ethyltoluene	2.00	2.01	101	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.77	89	60-140	
Acetone	2.00	1.47 J	74	60-140	
Benzene	2.00	2.05	103	70-130	
Benzyl chloride	2.00	2.06	103	70-130	
Bromodichloromethane	2.00	2.18	109	70-130	
Bromoform	2.00	1.64	82	60-140	
Bromomethane	2.00	2.46	123	70-130	
Carbon disulfide	2.00	2.22	111	70-130	
Carbon tetrachloride	2.00	2.51	125	70-130	
Chlorobenzene	2.00	2.00	100	70-130	
Chloroethane	2.00	2.37	119	70-130	
Chloroform	2.00	2.10	105	70-130	
Chloromethane	2.00	2.21	111	60-140	
cis-1,2-Dichloroethene	2.00	1.97	99	70-130	
cis-1,3-Dichloropropene	2.00	2.10	105	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC13-LCS.d

Lab ID: LCS 140-951/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.22	111	70-130	
Dibromochloromethane	2.00	1.96	98	70-130	
Dichlorodifluoromethane	2.00	2.39	120	60-140	
Ethanol	10.0	8.85	89	20-180	
Ethylbenzene	2.00	2.00	100	70-130	
Heptane	2.00	2.17	108	70-130	
Hexachlorobutadiene	2.00	1.97	98	60-140	
Hexane	2.00	1.87	93	70-130	
Indane	2.00	2.03	101	20-180	
Indene	2.00	2.09	104	20-180	
Isopropyl alcohol	2.00	1.77	89	60-140	
Methyl tert-butyl ether	2.00	1.85	92	60-140	
Methylene Chloride	2.00	2.08	104	70-130	
m-Xylene & p-Xylene	4.00	4.15	104	70-130	
Naphthalene	2.00	2.02	101	40-140	
o-Xylene	2.00	2.01	100	70-130	
Propene	2.00	1.94	97	60-140	
Styrene	2.00	2.05	102	70-130	
Tetrachloroethene	2.00	2.00	100	70-130	
Tetrahydrofuran	2.00	1.51	76	60-140	
Thiophene	2.00	2.08	104	20-180	
Toluene	2.00	1.92	96	70-130	
trans-1,2-Dichloroethene	2.00	2.06	103	70-130	
trans-1,3-Dichloropropene	2.00	1.95	97	70-130	
Trichloroethene	2.00	2.12	106	70-130	
Trichlorofluoromethane	2.00	2.44	122	60-140	
Vinyl chloride	2.00	2.46	123	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab File ID: EBLKC13.D Lab Sample ID: MB 140-951/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/13/2014 14:20

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-951/1002	ECCVC13-LCS.d	03/13/2014 11:55
PCV-IA1-B10	140-1037-1	EC13P107.D	03/13/2014 19:42
PCV-IA2-B10	140-1037-2	EC13P108.D	03/13/2014 20:27
PCV-IA3-B10	140-1037-3	EC13P109.D	03/13/2014 21:14
PCV-IALC-B10	140-1037-4	EC13P110.D	03/13/2014 21:59
PCV-AMB-2	140-1037-5	EC13P111.D	03/13/2014 22:44
PCV-IA2-B16	140-1037-6	EC13P112.D	03/14/2014 00:15
PCV-IA1-B16	140-1037-7	EC13P113.D	03/14/2014 01:01
PCV-IA3-B16	140-1037-8	EC13P114.D	03/14/2014 01:46
PCV-IA2-B18	140-1037-9	EC13P115.D	03/14/2014 02:31
PCV-IA3-B18	140-1037-10	EC13P116.D	03/14/2014 03:16
PCV-IA1-B18	140-1037-11	EC13P201.D	03/14/2014 04:01
PCV-IATC-B18	140-1037-12	EC13P202.D	03/14/2014 04:46
PCV-AMB1	140-1037-13	EC13P204.D	03/14/2014 06:16
PCV-IA2-B10 DL	140-1037-2 DL	EC13P108DL.D	03/14/2014 07:46
PCV-IA2-B18 DL	140-1037-9 DL	EC13P115DL.D	03/14/2014 08:31

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab File ID: EBFBC13.D BFB Injection Date: 03/13/2014

Instrument ID: ME BFB Injection Time: 11:24

Analysis Batch No.: 951

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
75	30.0 - 60.0 % of mass 95	53.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	84.0	
175	5.0 - 9.0 % of mass 174	6.2	(7.4)1
176	95.0 - 101.0 % of mass 174	82.1	(97.8)1
177	5.0 - 9.0 % of mass 176	5.5	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-951/2	ECCVC13.D	03/13/2014	11:55
	LCS 140-951/1002	ECCVC13-LCS.d	03/13/2014	11:55
	MB 140-951/5	EBLKC13.D	03/13/2014	14:20
PCV-IA1-B10	140-1037-1	EC13P107.D	03/13/2014	19:42
PCV-IA2-B10	140-1037-2	EC13P108.D	03/13/2014	20:27
PCV-IA3-B10	140-1037-3	EC13P109.D	03/13/2014	21:14
PCV-IALC-B10	140-1037-4	EC13P110.D	03/13/2014	21:59
PCV-AMB-2	140-1037-5	EC13P111.D	03/13/2014	22:44
PCV-IA2-B16	140-1037-6	EC13P112.D	03/14/2014	00:15
PCV-IA1-B16	140-1037-7	EC13P113.D	03/14/2014	01:01
PCV-IA3-B16	140-1037-8	EC13P114.D	03/14/2014	01:46
PCV-IA2-B18	140-1037-9	EC13P115.D	03/14/2014	02:31
PCV-IA3-B18	140-1037-10	EC13P116.D	03/14/2014	03:16
PCV-IA1-B18	140-1037-11	EC13P201.D	03/14/2014	04:01
PCV-IATC-B18	140-1037-12	EC13P202.D	03/14/2014	04:46
PCV-AMB1	140-1037-13	EC13P204.D	03/14/2014	06:16
PCV-IA2-B10 DL	140-1037-2 DL	EC13P108DL.D	03/14/2014	07:46
PCV-IA2-B18 DL	140-1037-9 DL	EC13P115DL.D	03/14/2014	08:31

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Sample No.: CCVIS 140-951/2 Date Analyzed: 03/13/2014 11:55

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC13.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		219421	8.34	984733	10.58	930182	15.39
UPPER LIMIT		307189	8.67	1378626	10.91	1302255	15.72
LOWER LIMIT		131653	8.01	590840	10.25	558109	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-951/1002		219421	8.34	984733	10.58	930182	15.39
MB 140-951/5		236266	8.33	1075620	10.57	971795	15.38
140-1037-1	PCV-IA1-B10	225507	8.33	1110630	10.57	979732	15.38
140-1037-2	PCV-IA2-B10	237499	8.33	1206182	10.57	1073945	15.38
140-1037-3	PCV-IA3-B10	213703	8.33	1007310	10.57	937091	15.38
140-1037-4	PCV-IALC-B10	252982	8.33	1266126	10.57	1128994	15.38
140-1037-5	PCV-AMB-2	230824	8.33	1099590	10.57	948715	15.38
140-1037-6	PCV-IA2-B16	218519	8.33	1115502	10.57	1014181	15.38
140-1037-7	PCV-IA1-B16	232718	8.33	1126151	10.57	978834	15.38
140-1037-8	PCV-IA3-B16	222541	8.33	1133514	10.57	1002115	15.38
140-1037-9	PCV-IA2-B18	207508	8.33	1003266	10.57	896081	15.38
140-1037-10	PCV-IA3-B18	232887	8.33	1161746	10.57	1021157	15.38
140-1037-11	PCV-IA1-B18	224357	8.33	1106892	10.57	970147	15.38
140-1037-12	PCV-IATC-B18	223040	8.33	1090521	10.57	991944	15.38
140-1037-13	PCV-AMB1	191943	8.33	916212	10.57	864566	15.38
140-1037-2 DL	PCV-IA2-B10 DL	194166	8.33	953061	10.57	876718	15.38
140-1037-9 DL	PCV-IA2-B18 DL	214562	8.33	1065162	10.57	977610	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.39		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.092	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.052	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.28	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.71		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.10	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.20	J	0.50	0.045
67-64-1	Acetone	58.08	3.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.044	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.65		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.051	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	60		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.24		0.20	0.068
142-82-5	Heptane	100.21	0.10	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.41		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	0.096	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.29		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.9		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.45	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.83	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.51	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.81	J	2.0	0.18
67-64-1	Acetone	58.08	8.2	J	12	3.3
71-43-2	Benzene	78.11	0.75		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.14	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.18	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	110		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.41	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.47	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	4.5		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.8		0.87	0.26
115-07-1	Propene	42.08	2.1	cn	0.86	0.13
100-42-5	Styrene	104.15	0.41	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B10 Lab Sample ID: 140-1037-1

Matrix: Air Lab File ID: EC13P107.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 19:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D
Lims ID: 140-1037-A-1 Lab Sample ID: 140-1037-1
Client ID: PCV-IA1-B10
Sample Type: Client
Inject. Date: 13-Mar-2014 19:42:30 ALS Bottle#: 7 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-1
Misc. Info.: E031314,TO155,,140-0000518-012
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:22:27 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:20:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	225507	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1110630	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	979732	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	879733	4.10	
7 Propene	41	3.319	3.309	0.010	74	27061	0.4770	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	44558	0.1786	
9 Chloromethane	52	3.535	3.530	0.005	99	5158	0.2590	
17 Ethanol	31	4.322	4.312	0.010	98	545400	24.2	
19 2-Methylbutane	43	4.538	4.538	0.0	86	22370	0.2833	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	24557	0.0981	
23 Acetone	58	4.878	4.878	0.0	93	47393	1.39	
24 Isopropyl alcohol	45	4.980	4.970	0.010	95	48698	0.5538	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.611	0.006	58	4157	0.0268	
31 Methylene Chloride	84	5.784	5.789	-0.005	78	9410	0.1460	
33 Carbon disulfide	76	5.935	5.940	-0.005	82	4137	0.0177	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	91	4131	0.1119	
40 Hexane	56	7.574	7.585	-0.011	66	3218	0.0536	
49 Cyclohexane	69	9.990	9.990	0.0	49	859	0.0205	
48 Benzene	78	9.990	9.995	-0.005	91	21110	0.0944	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	55	5577	0.0260	
53 Isooctane	57	10.782	10.788	-0.006	63	7109	0.0206	
54 n-Heptane	71	11.176	11.182	-0.006	66	3388	0.0400	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	85	10467	0.0795	
65 Toluene	91	13.398	13.403	-0.005	90	30005	0.1143	
76 Ethylbenzene	91	15.722	15.722	0.0	96	32418	0.0963	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	110574	0.4179	
80 Styrene	104	16.353	16.353	0.0	79	7017	0.0383	
82 o-Xylene	91	16.412	16.412	0.0	94	46844	0.1638	
88 4-Ethyltoluene	105	17.701	17.701	0.0	92	14912	0.0412	M
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	82	6015	0.0367	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	97	46601	0.1550	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags

QC Flag Legend

Review Flags
M - Manually Integrated

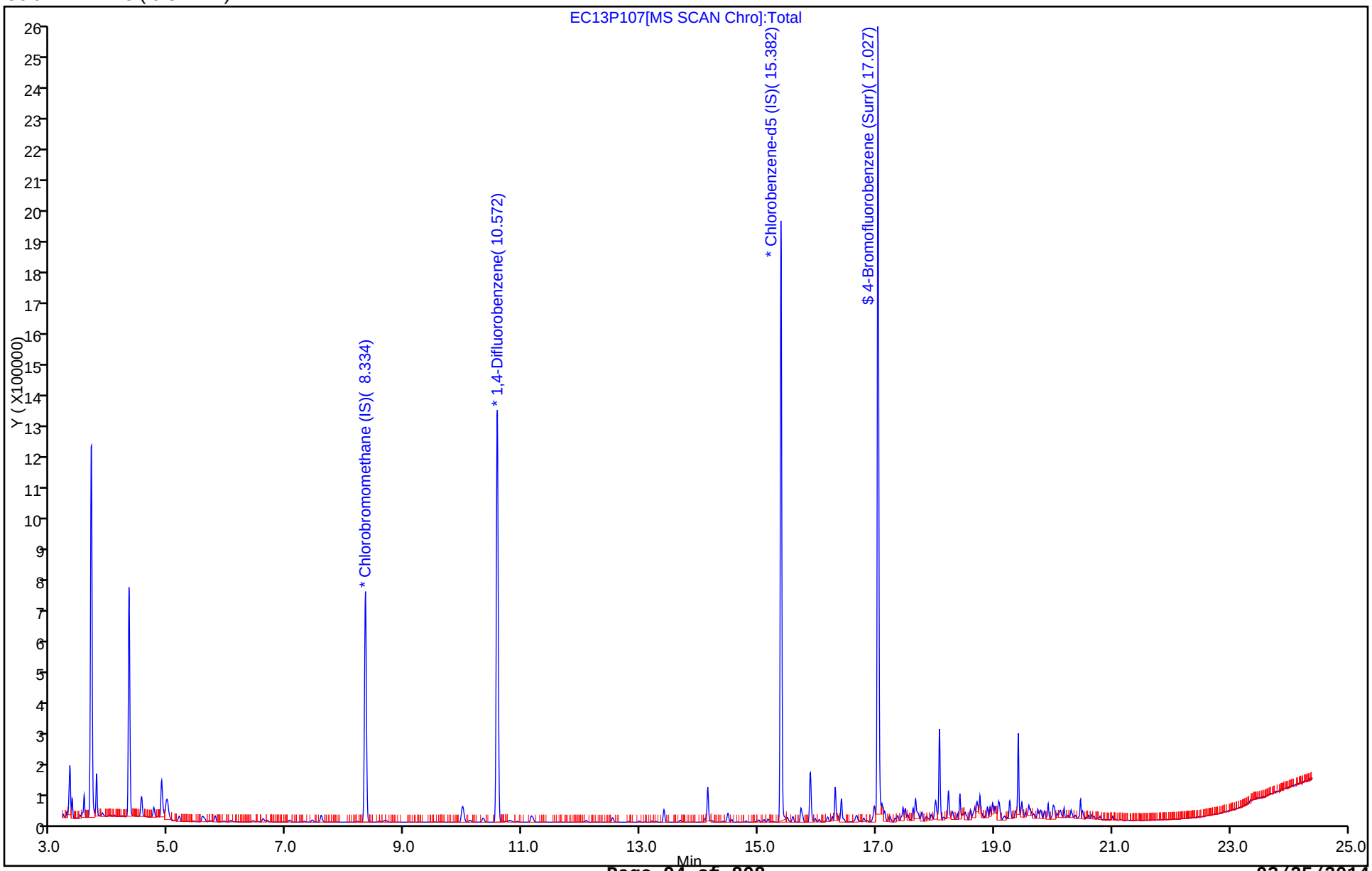
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1	Worklist Smp#:	12
Client ID:	PCV-IA1-B10				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date: 13-Mar-2014 19:42:30 Instrument ID: ME

Lims ID: 140-1037-A-1 Lab Sample ID: 140-1037-1

Client ID: PCV-IA1-B10

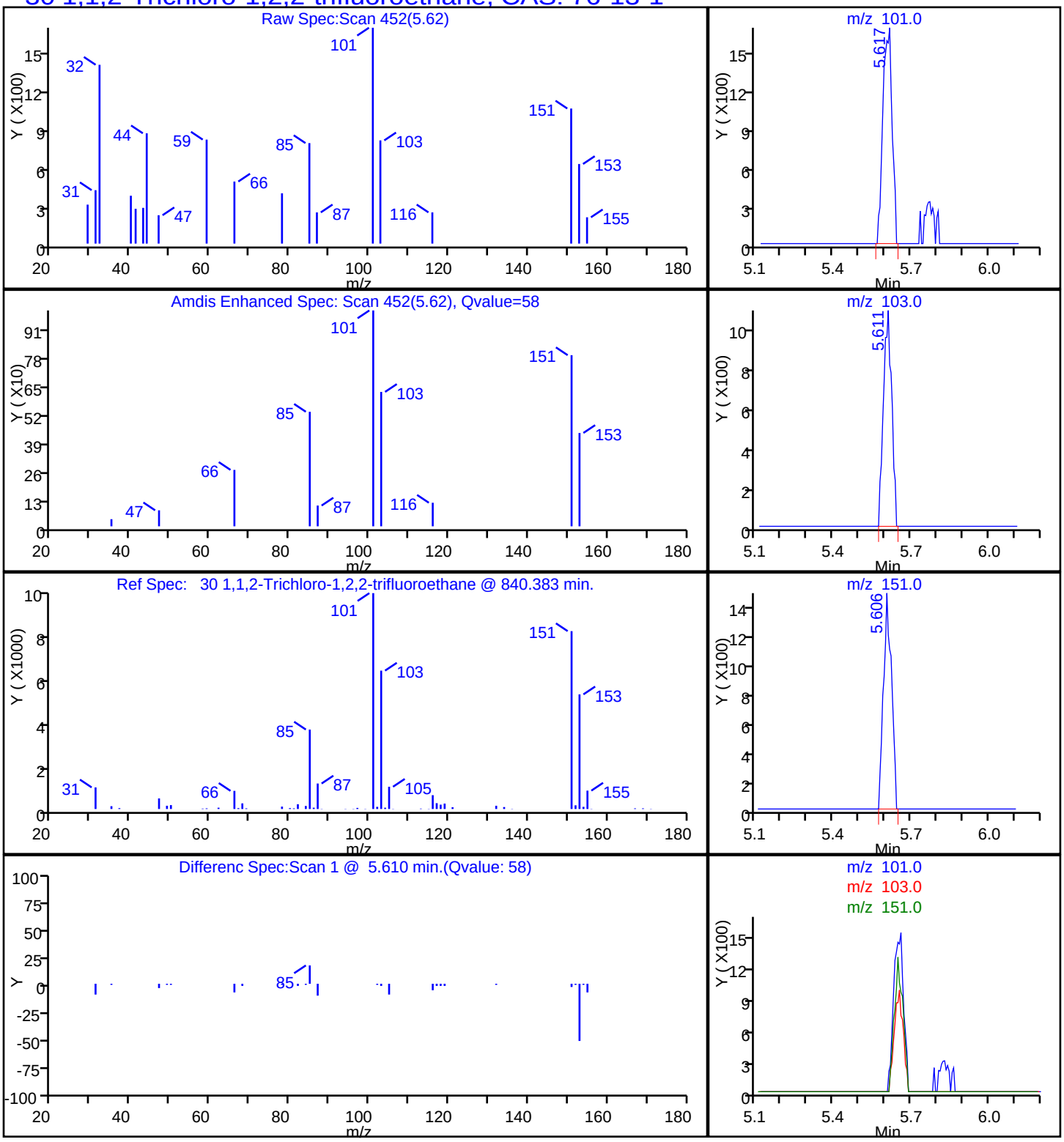
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



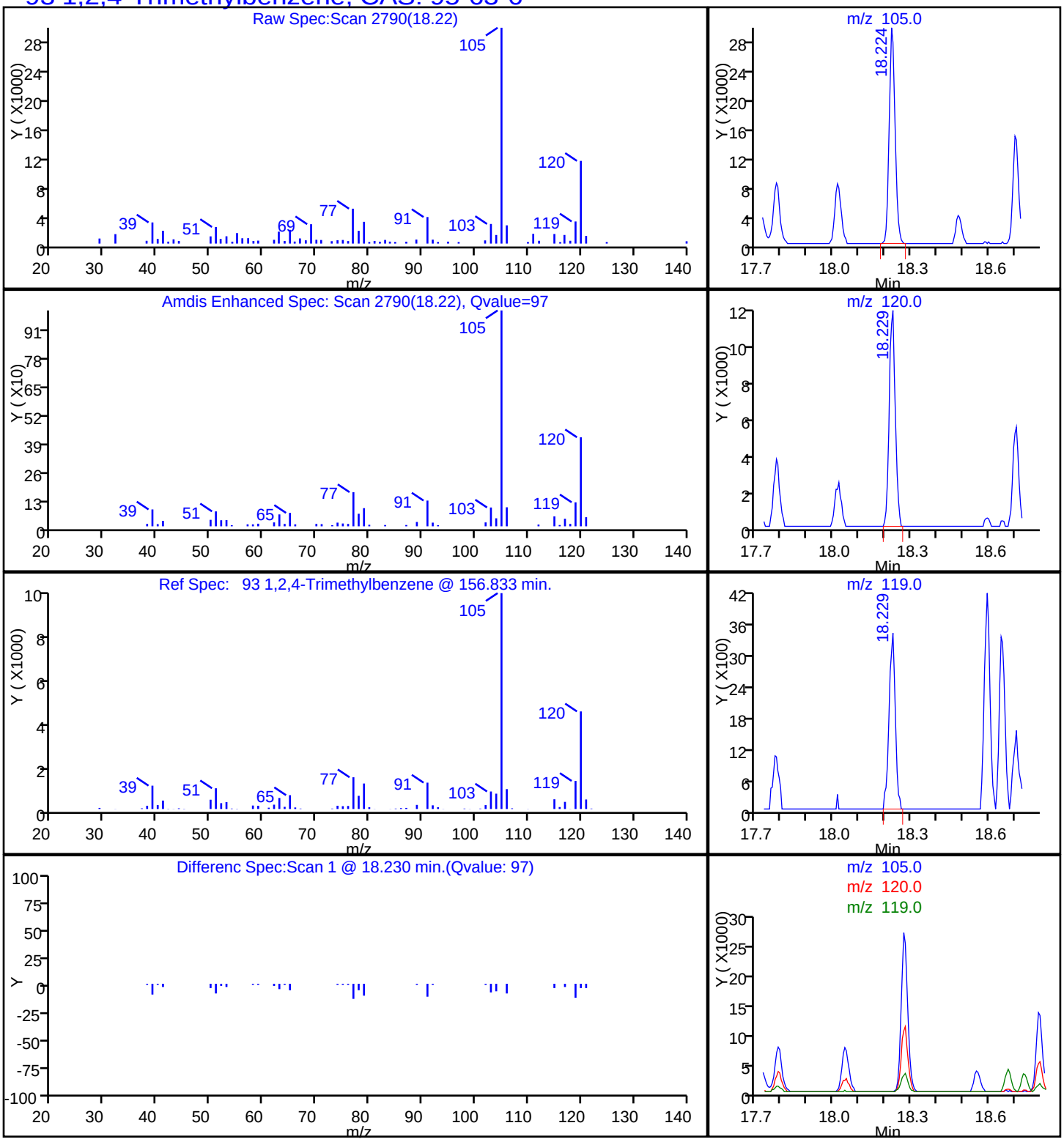
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME		
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1		
Client ID:	PCV-IA1-B10				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



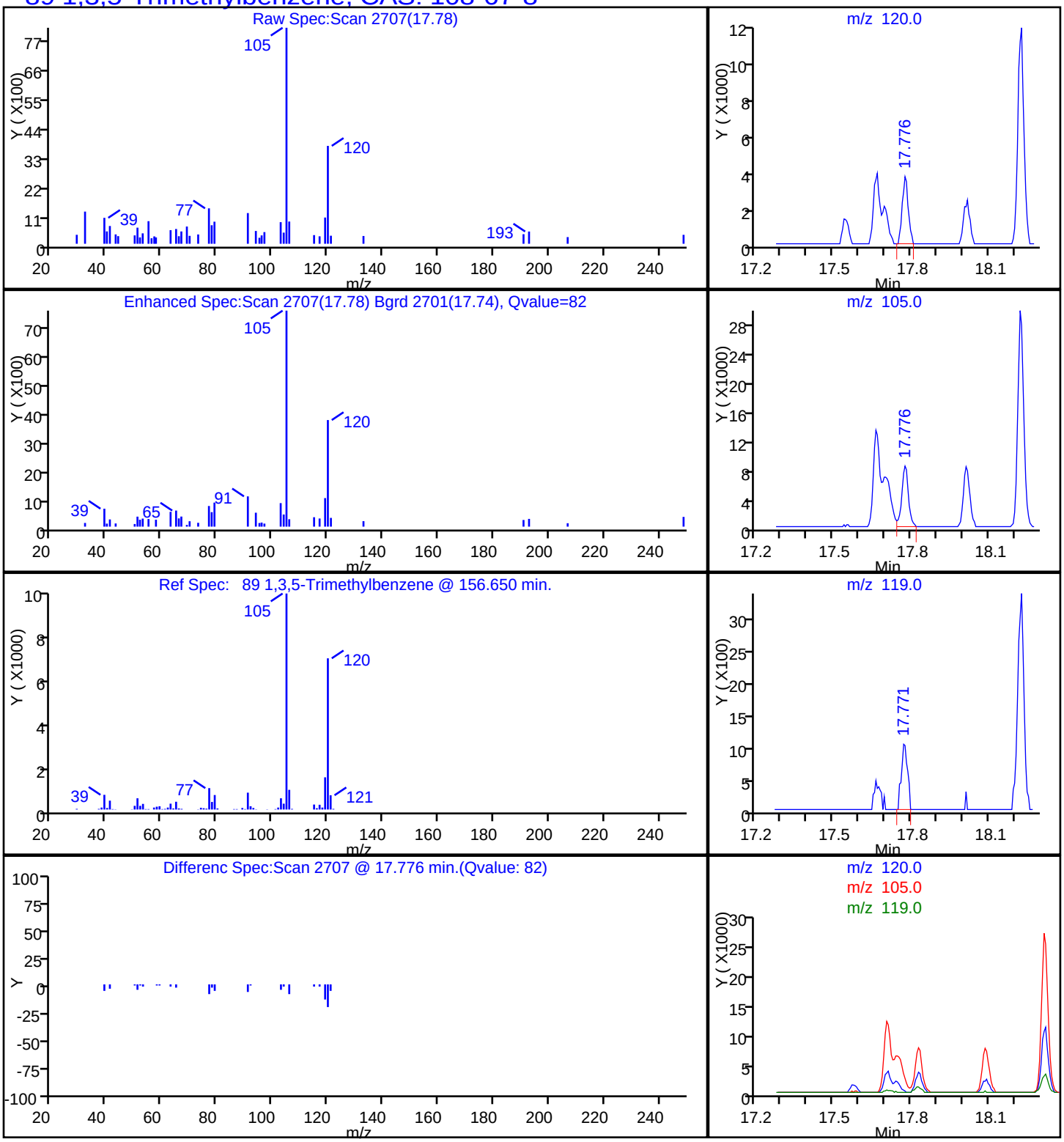
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



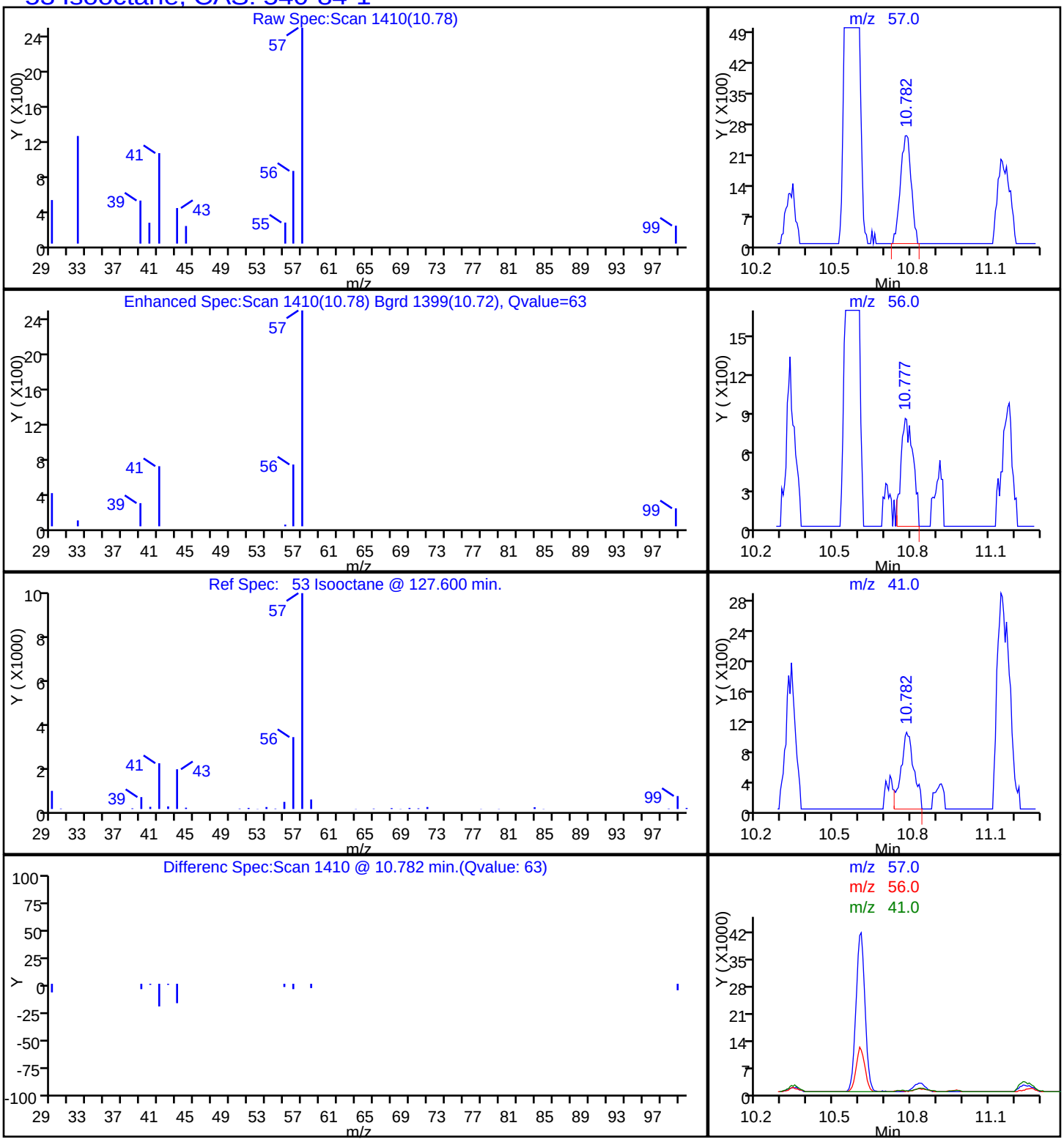
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



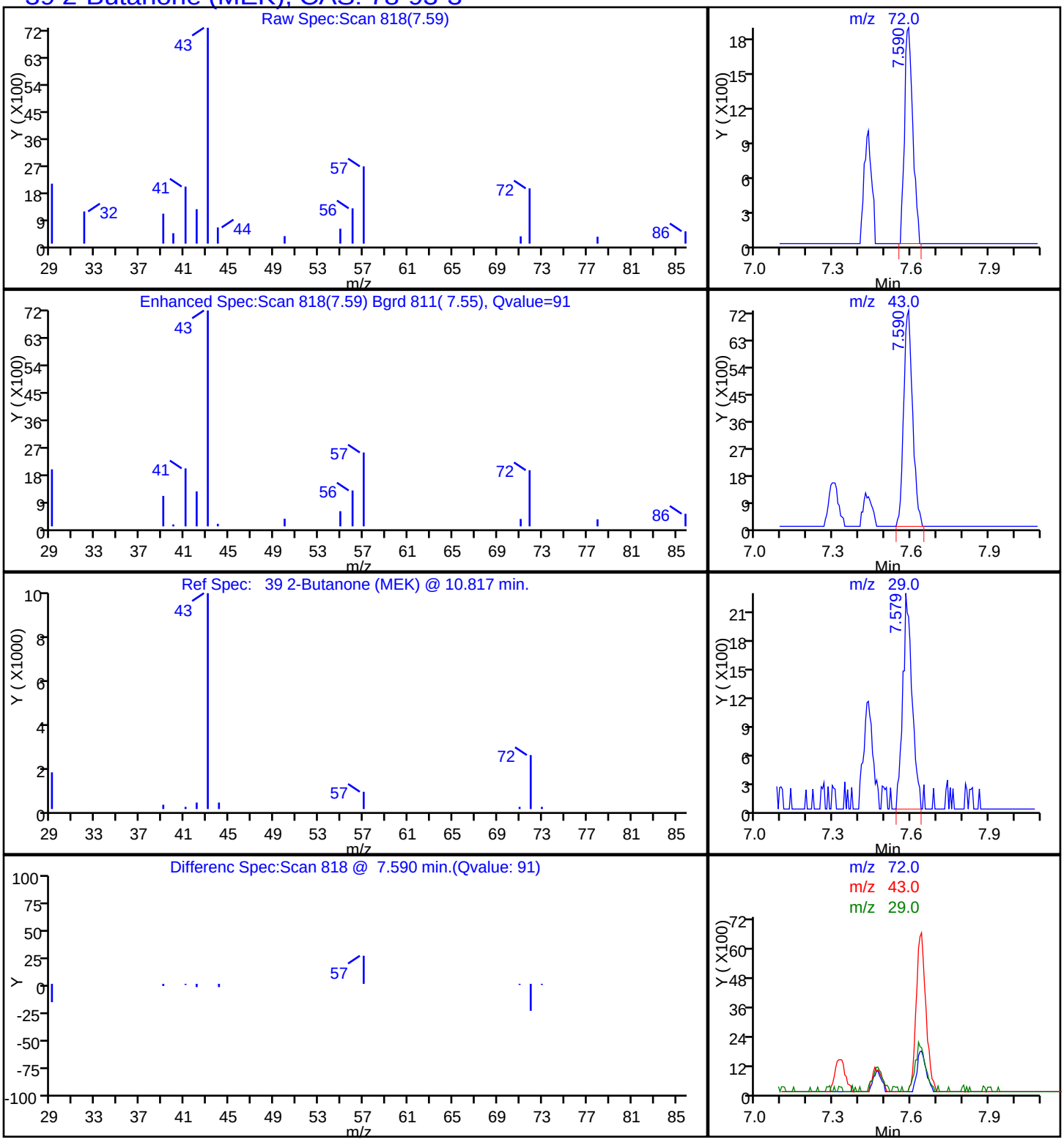
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



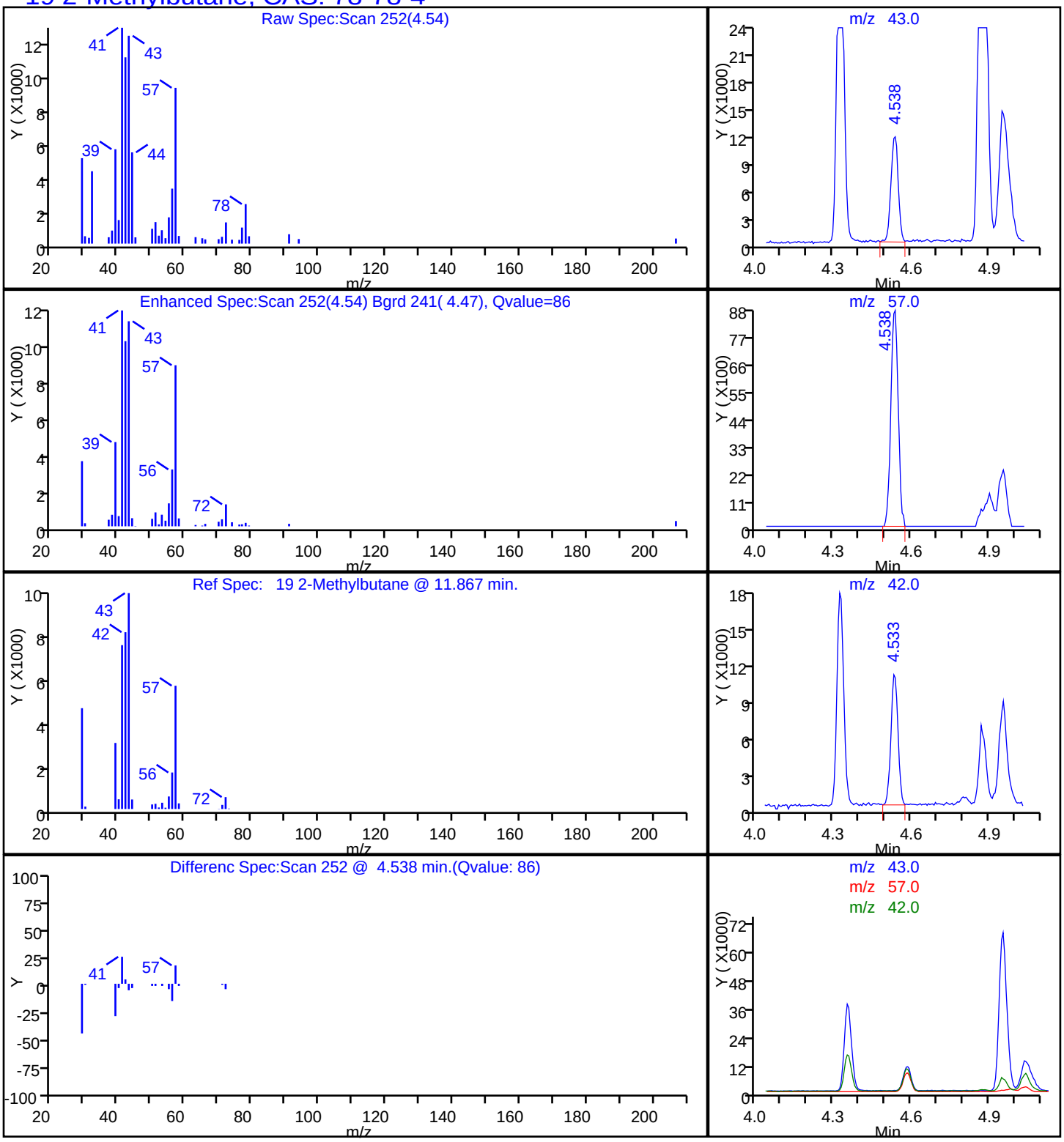
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



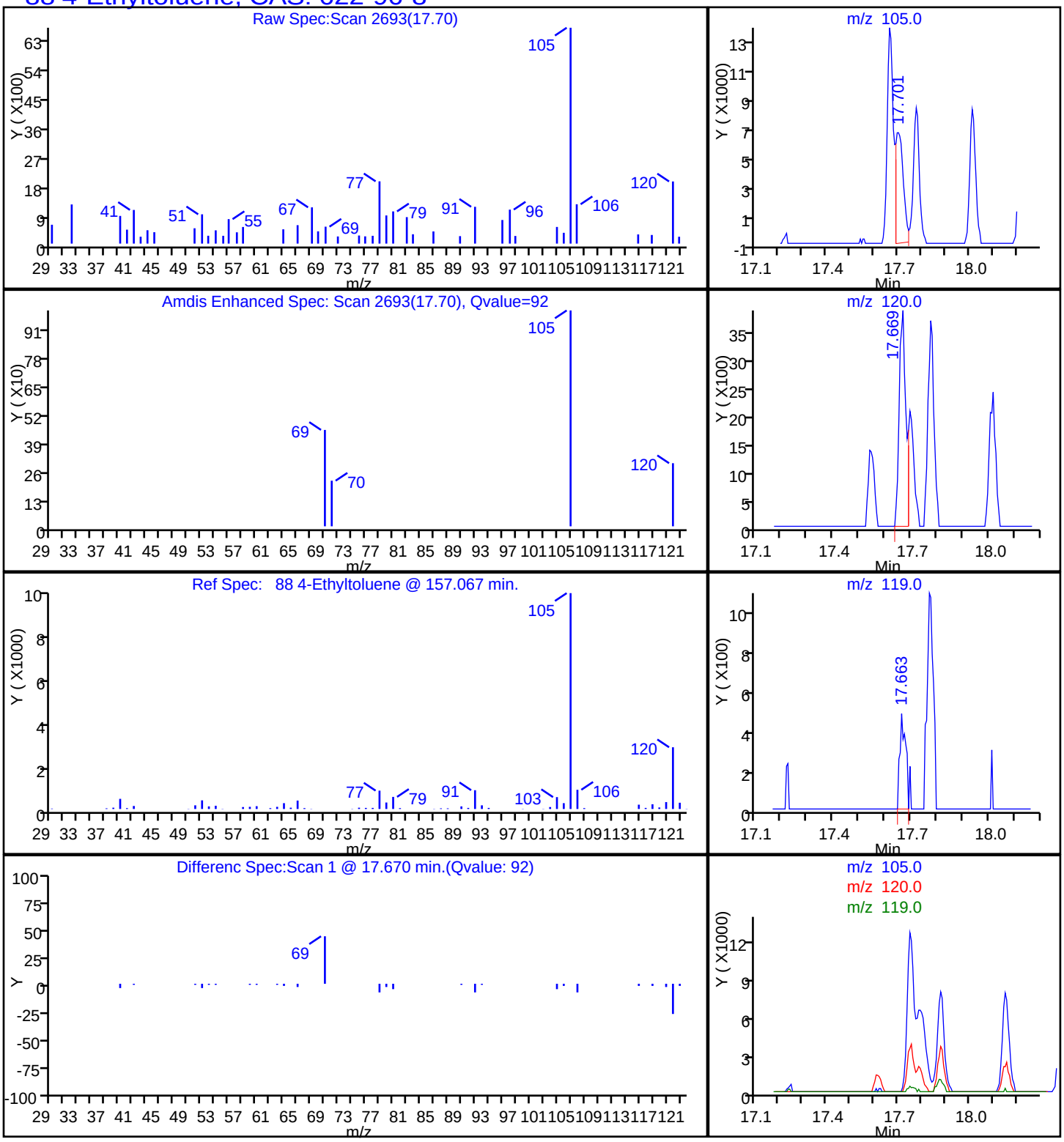
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



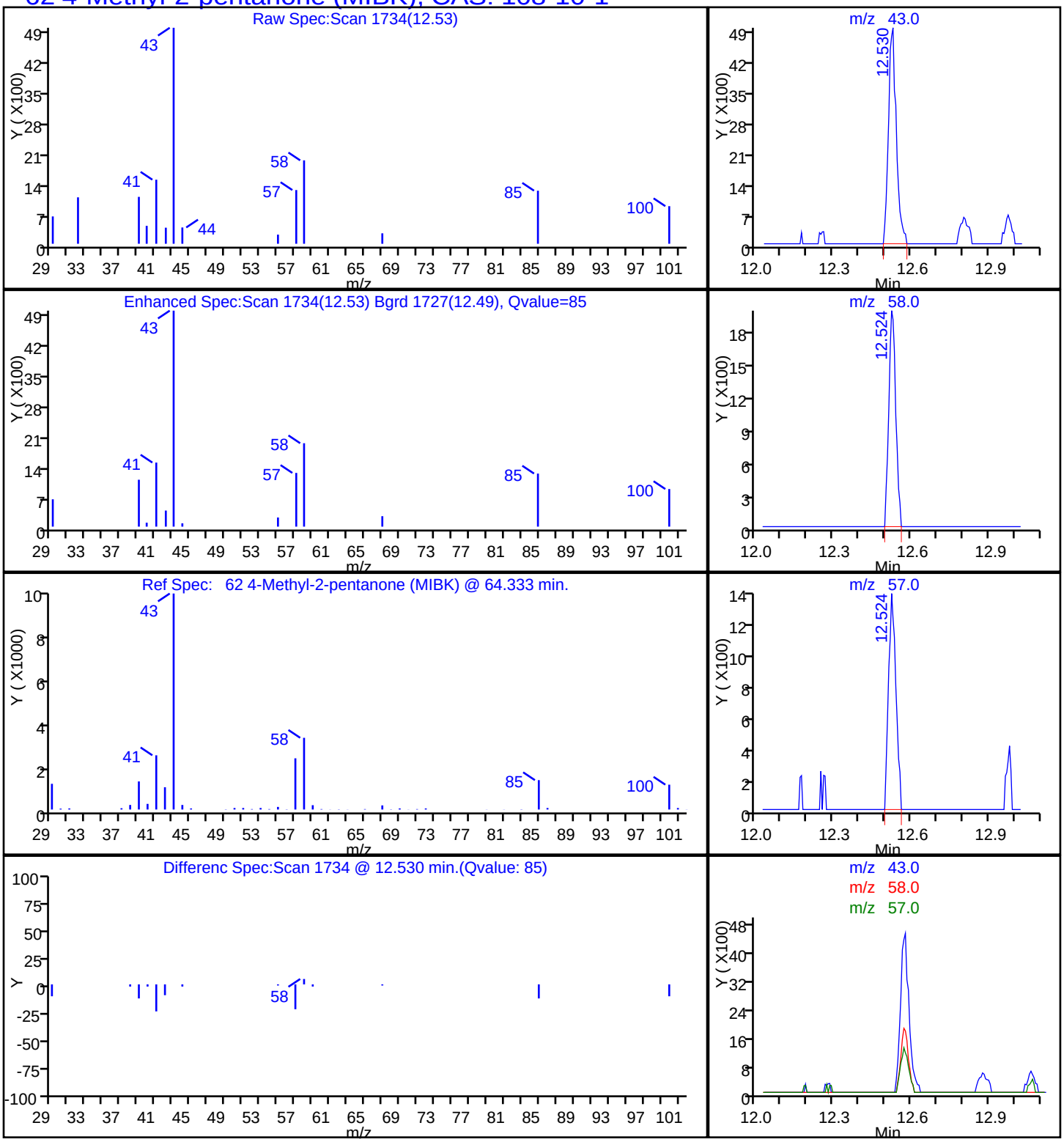
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



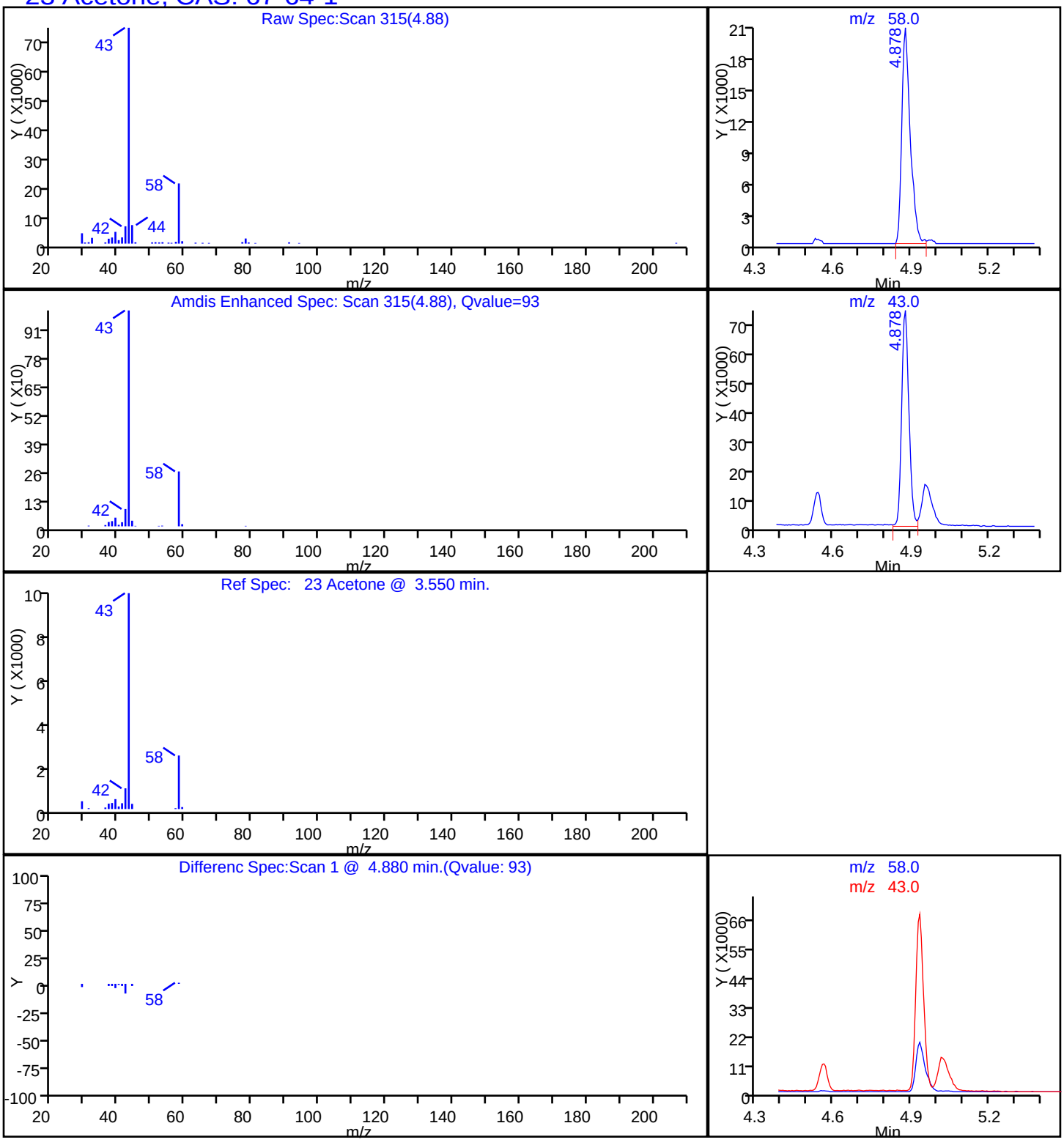
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



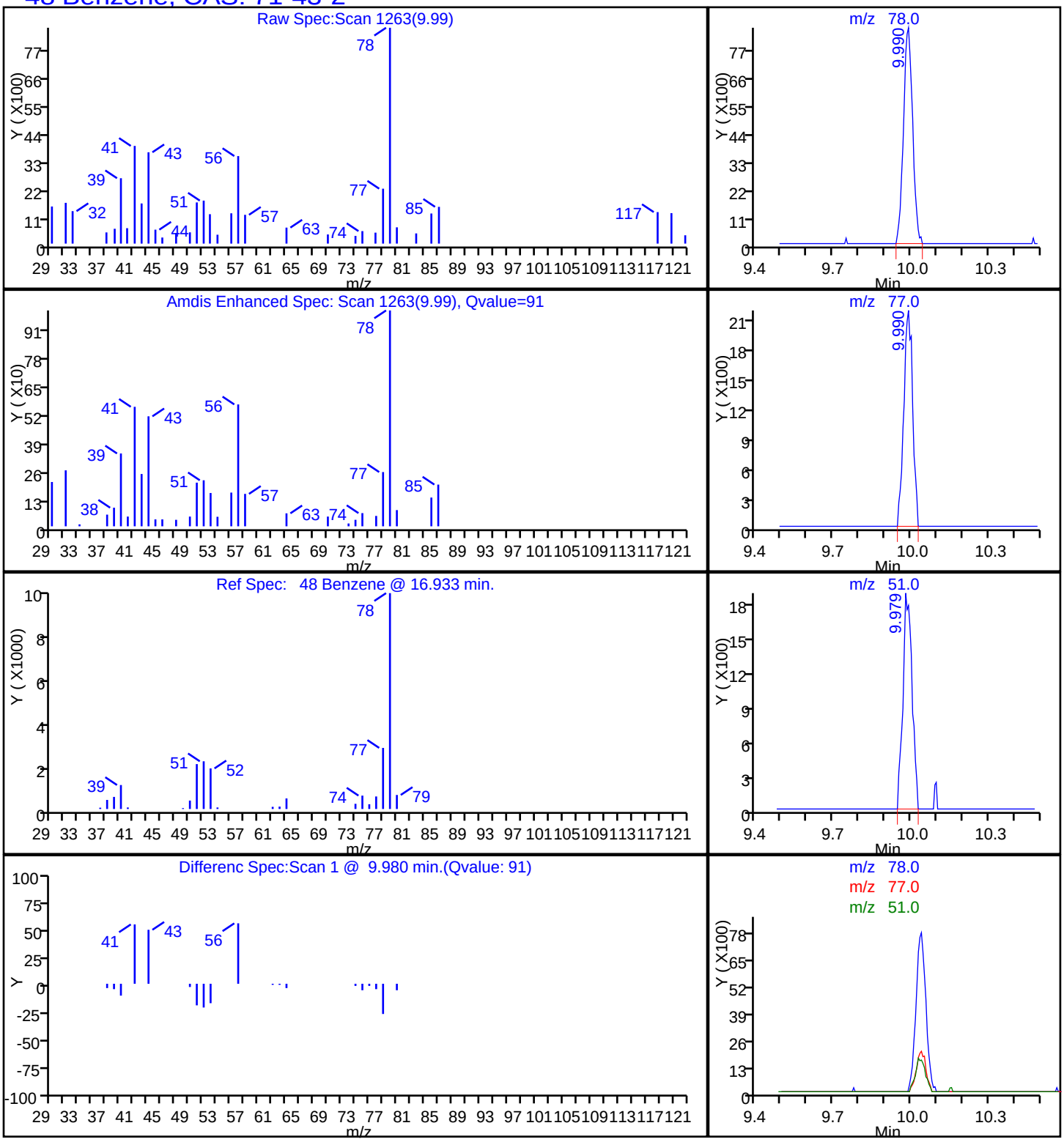
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



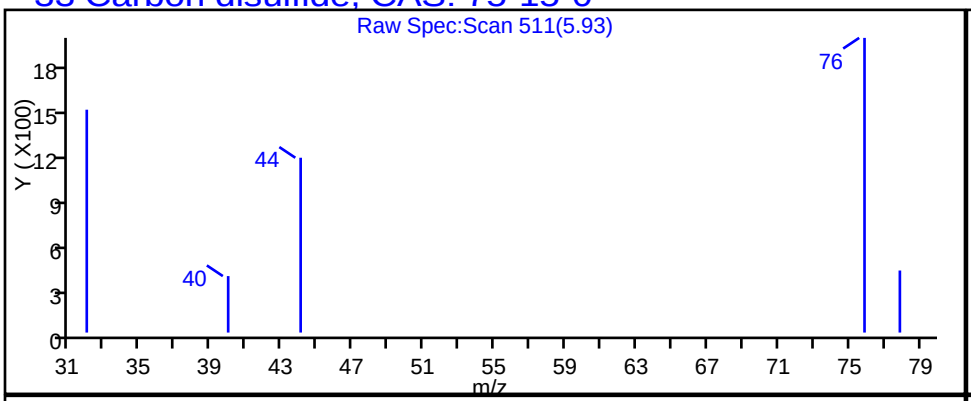
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

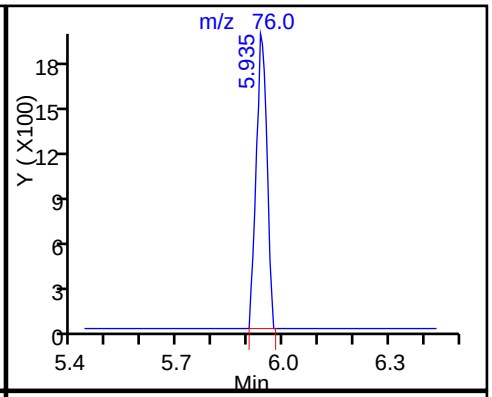
TestAmerica Knoxville

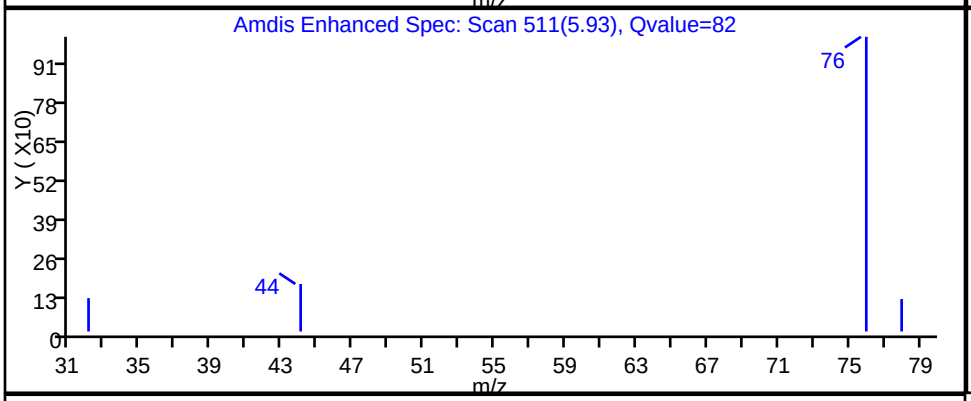
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

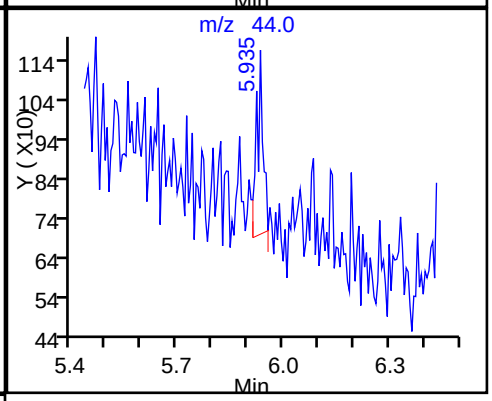
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

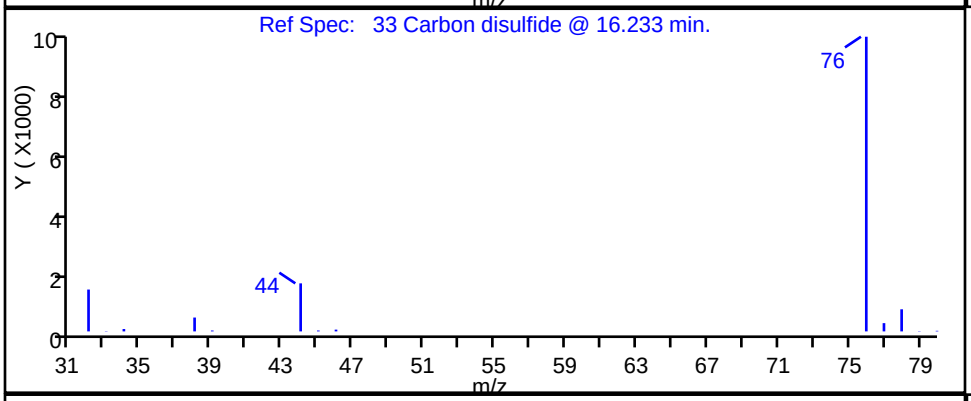
33 Carbon disulfide, CAS: 75-15-0

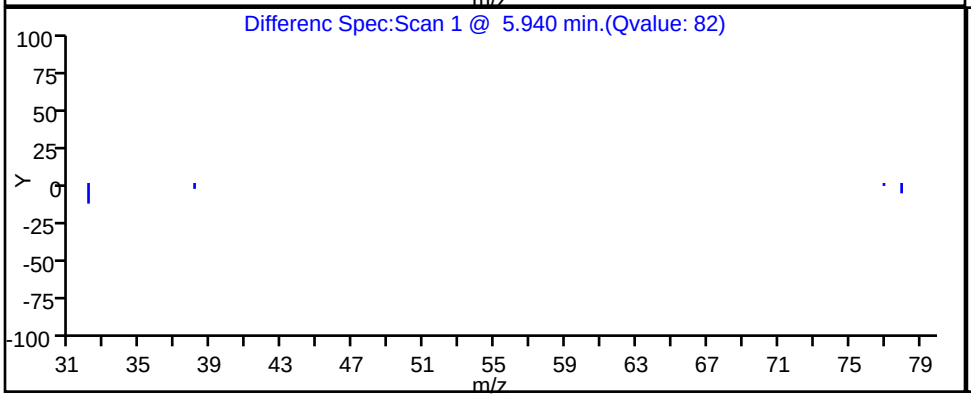


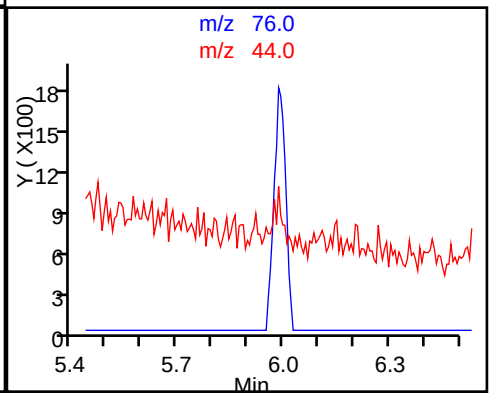












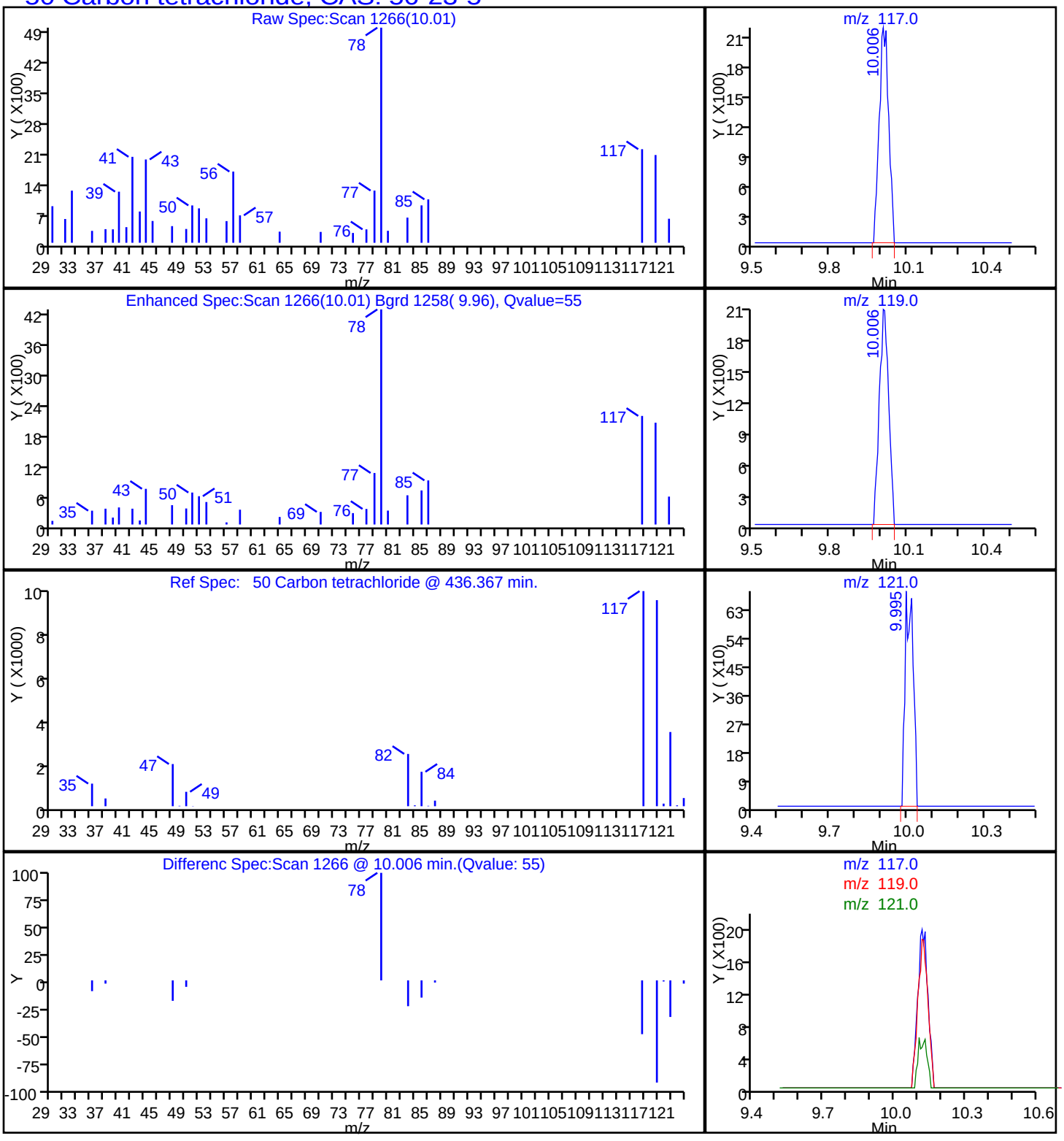
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



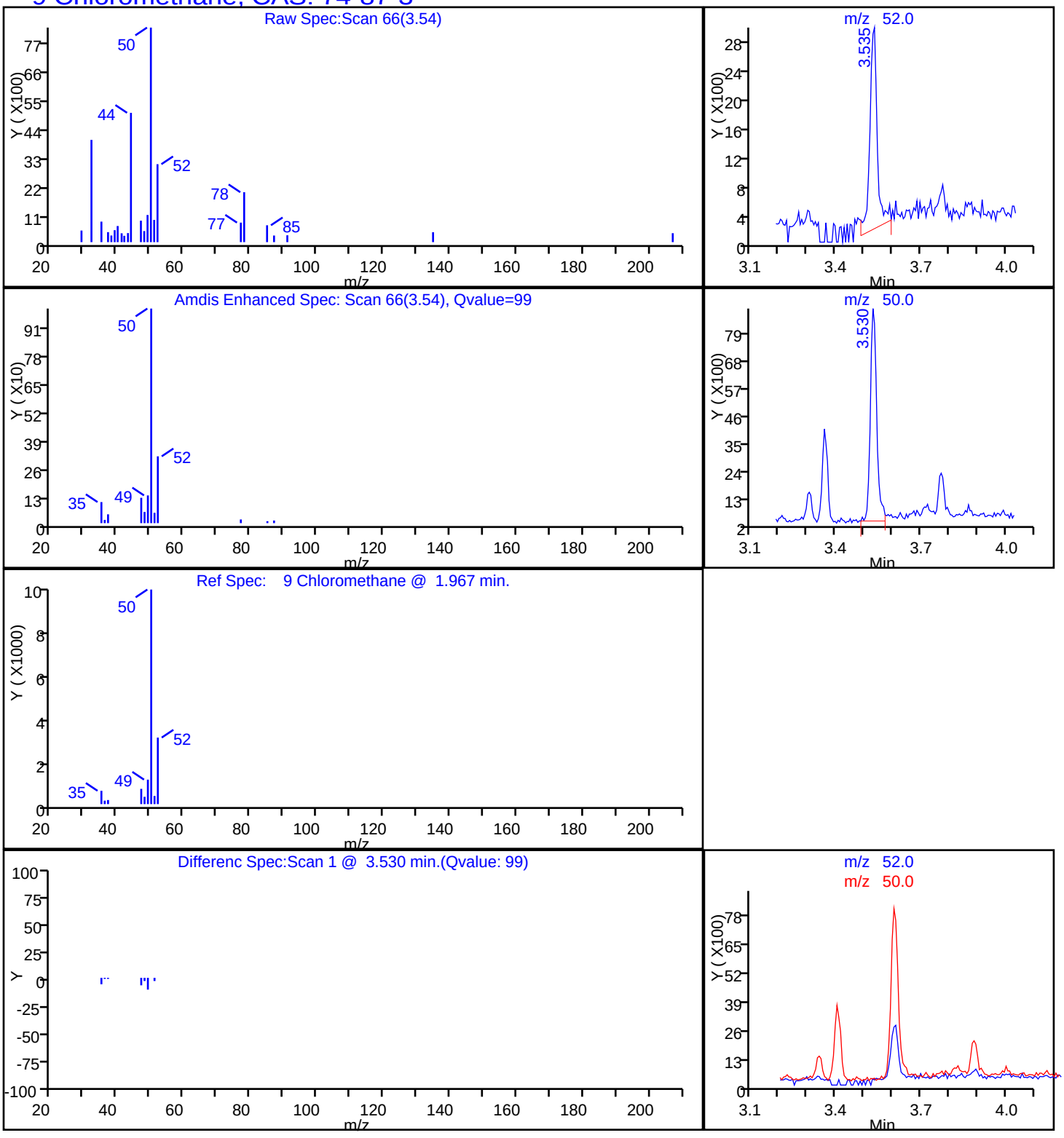
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



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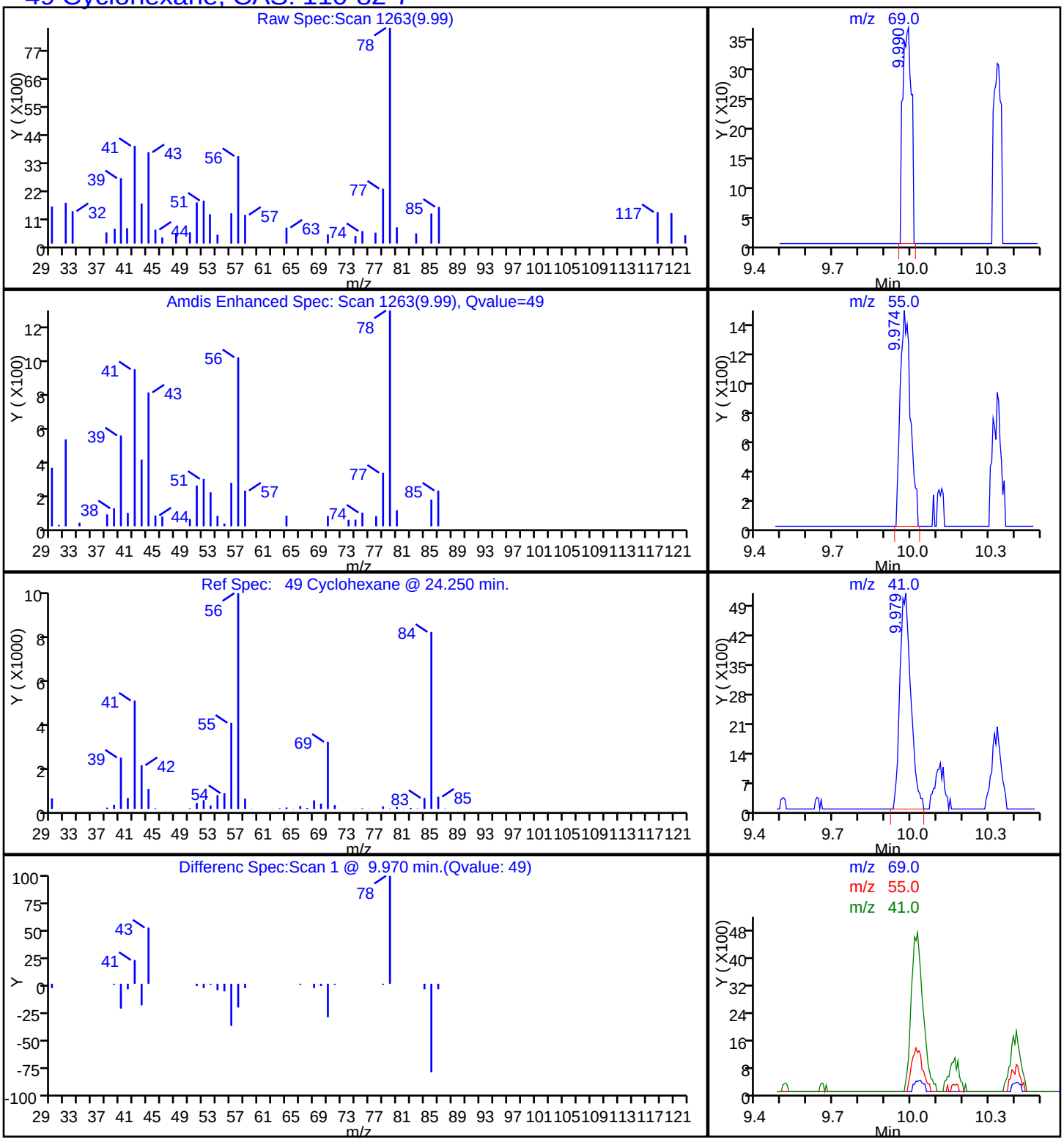
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date: 13-Mar-2014 19:42:30 Instrument ID: ME

Lims ID: 140-1037-A-1 Lab Sample ID: 140-1037-1

Client ID: PCV-IA1-B10

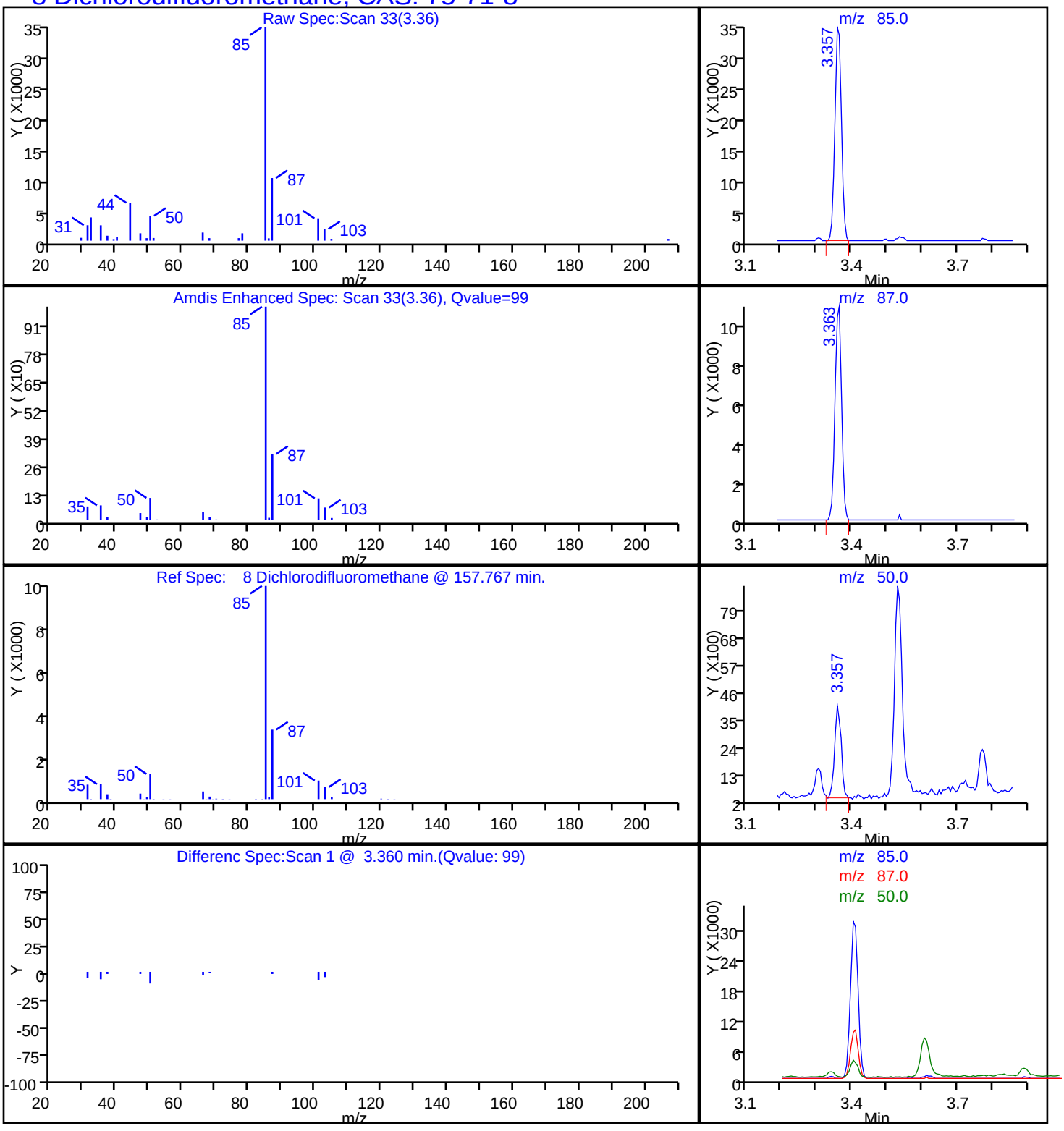
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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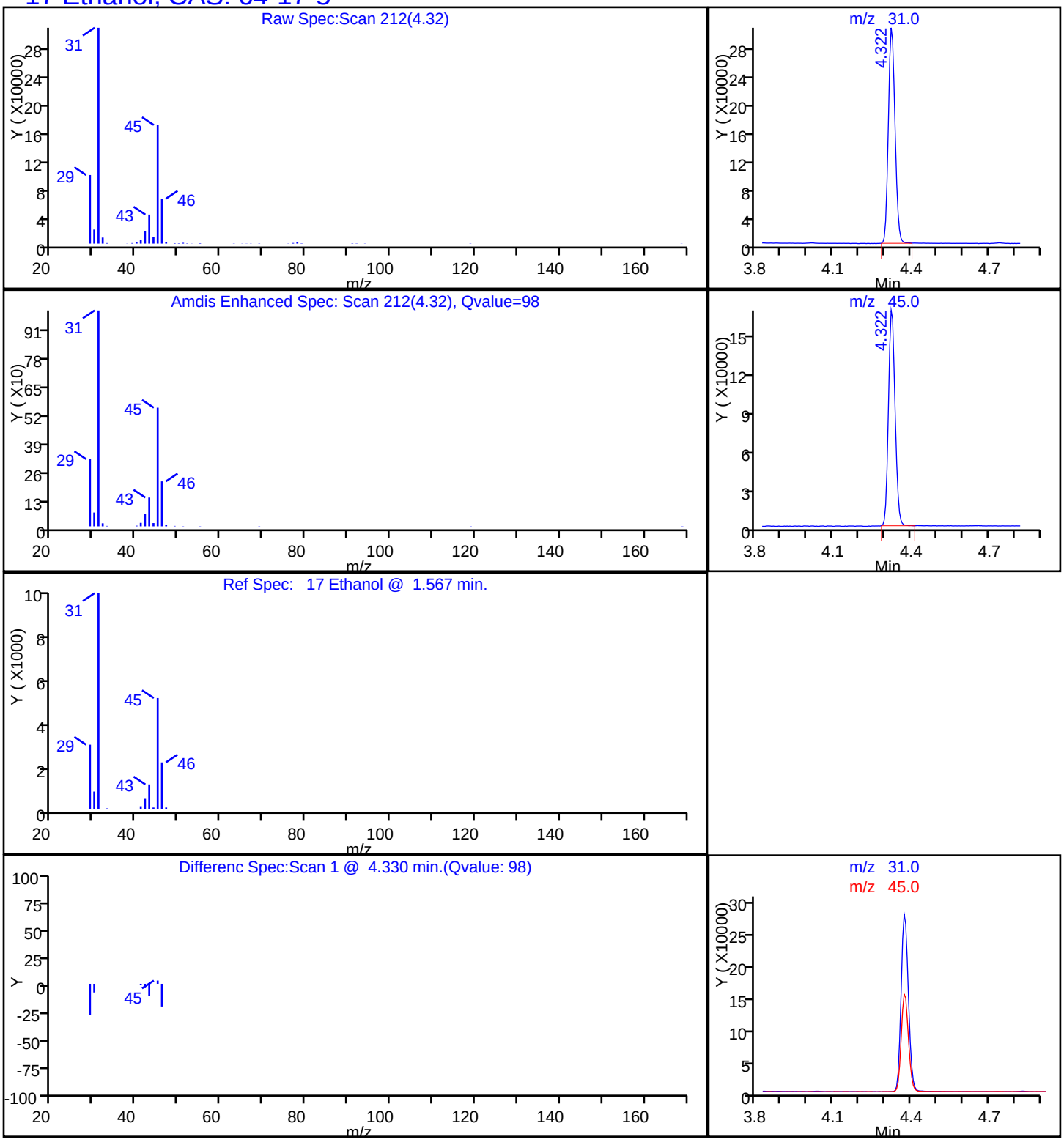
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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TestAmerica Knoxville

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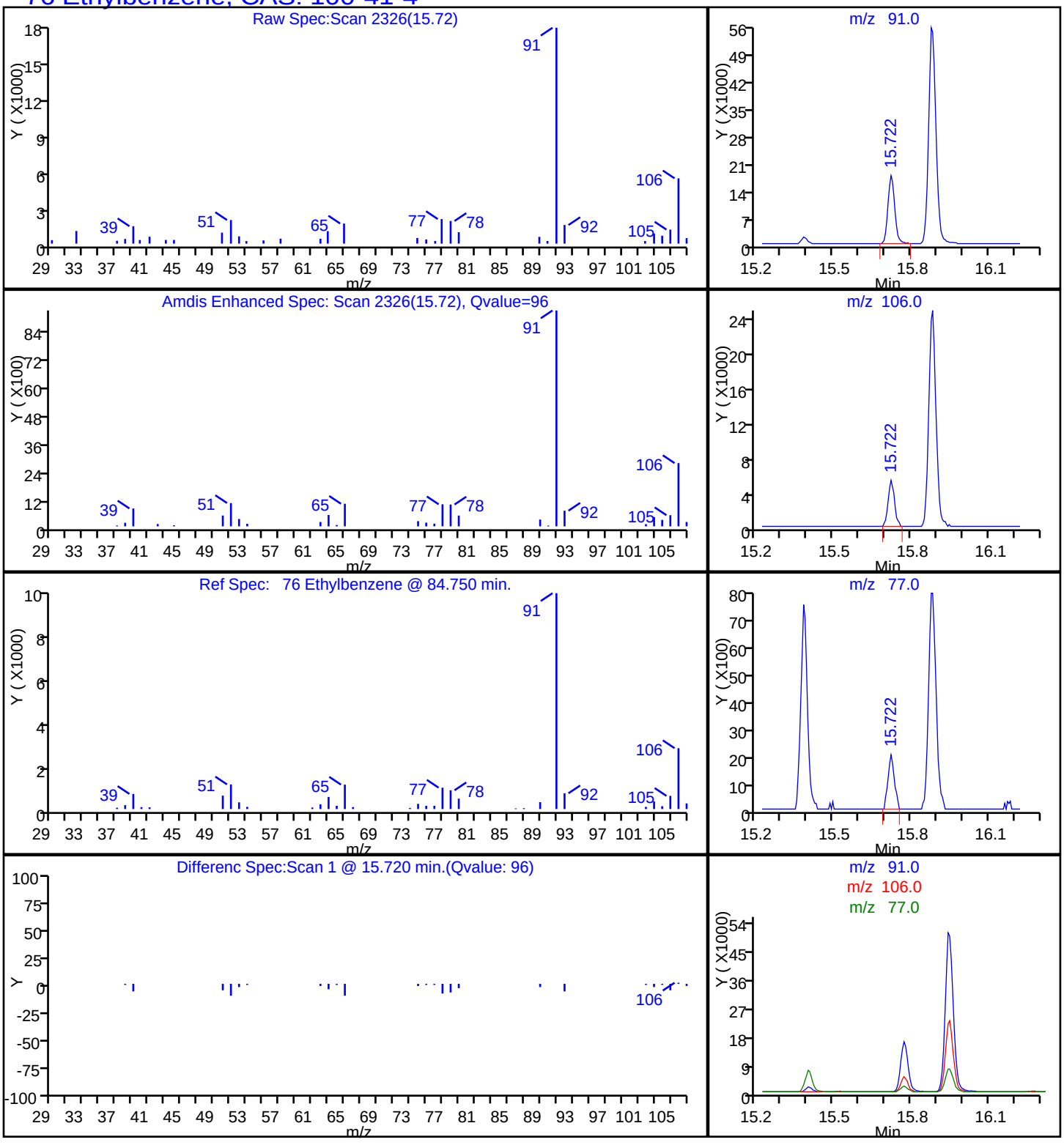
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



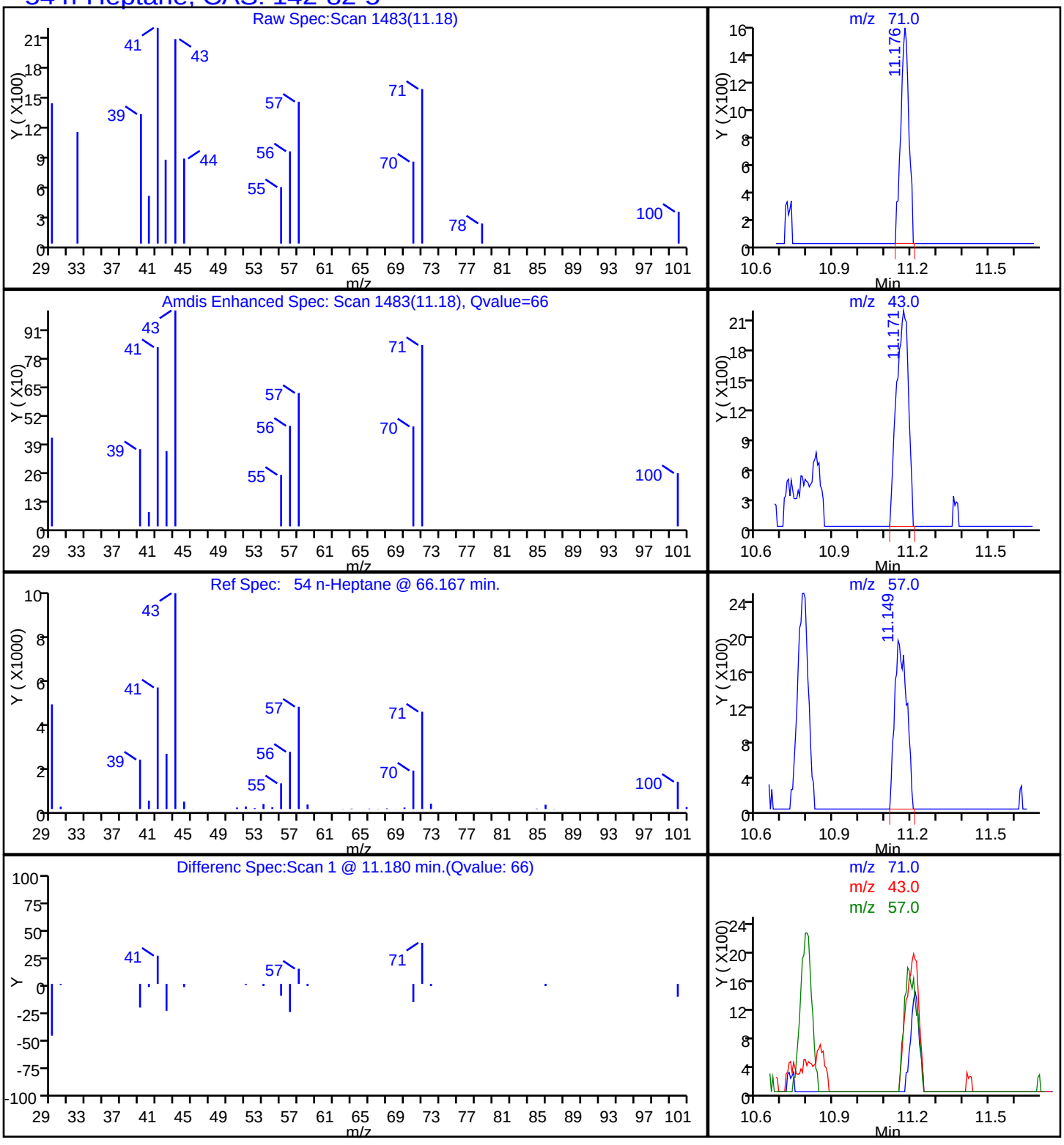
Report Date: 14-Mar-2014 07:22:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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TestAmerica Knoxville

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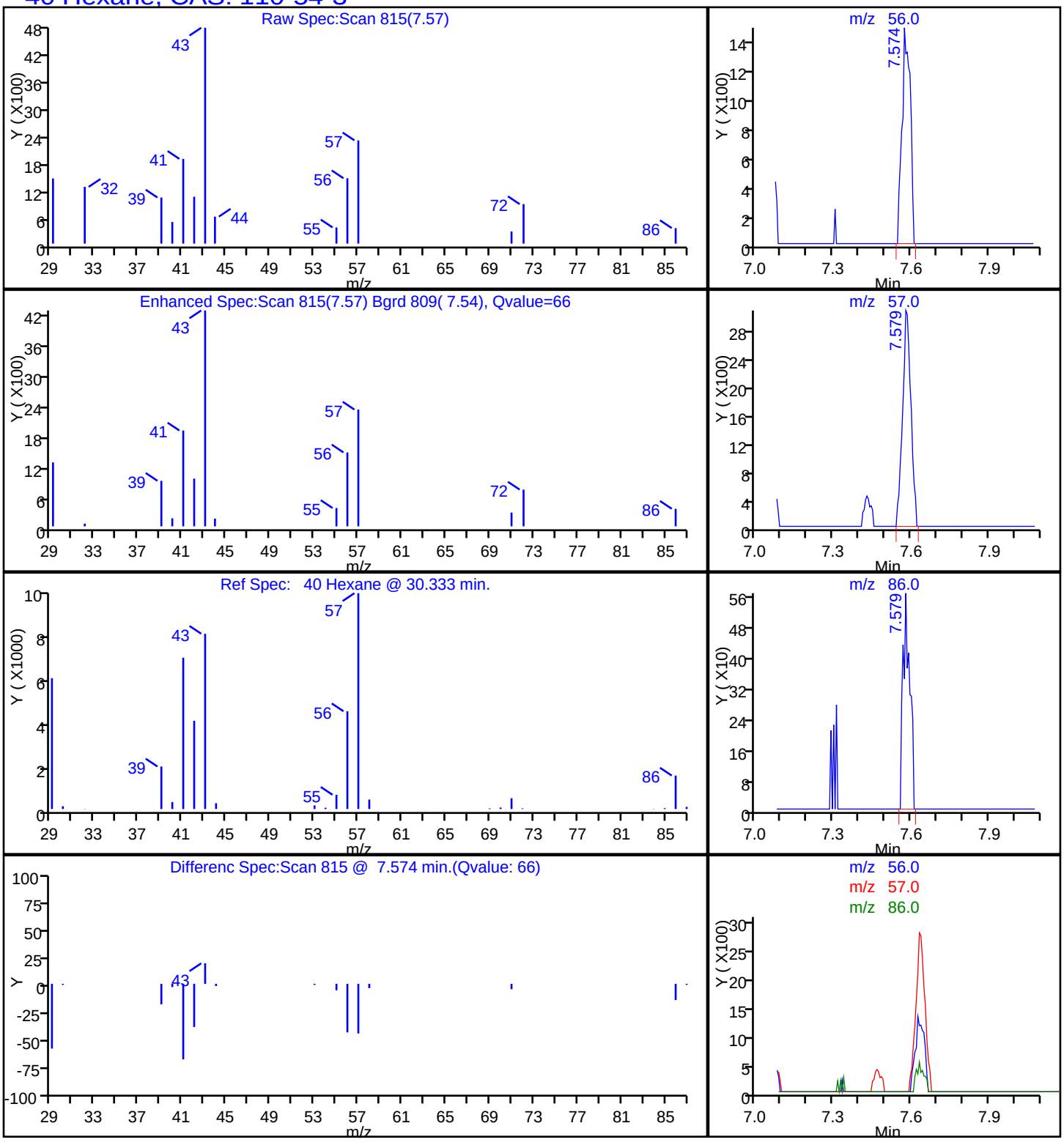
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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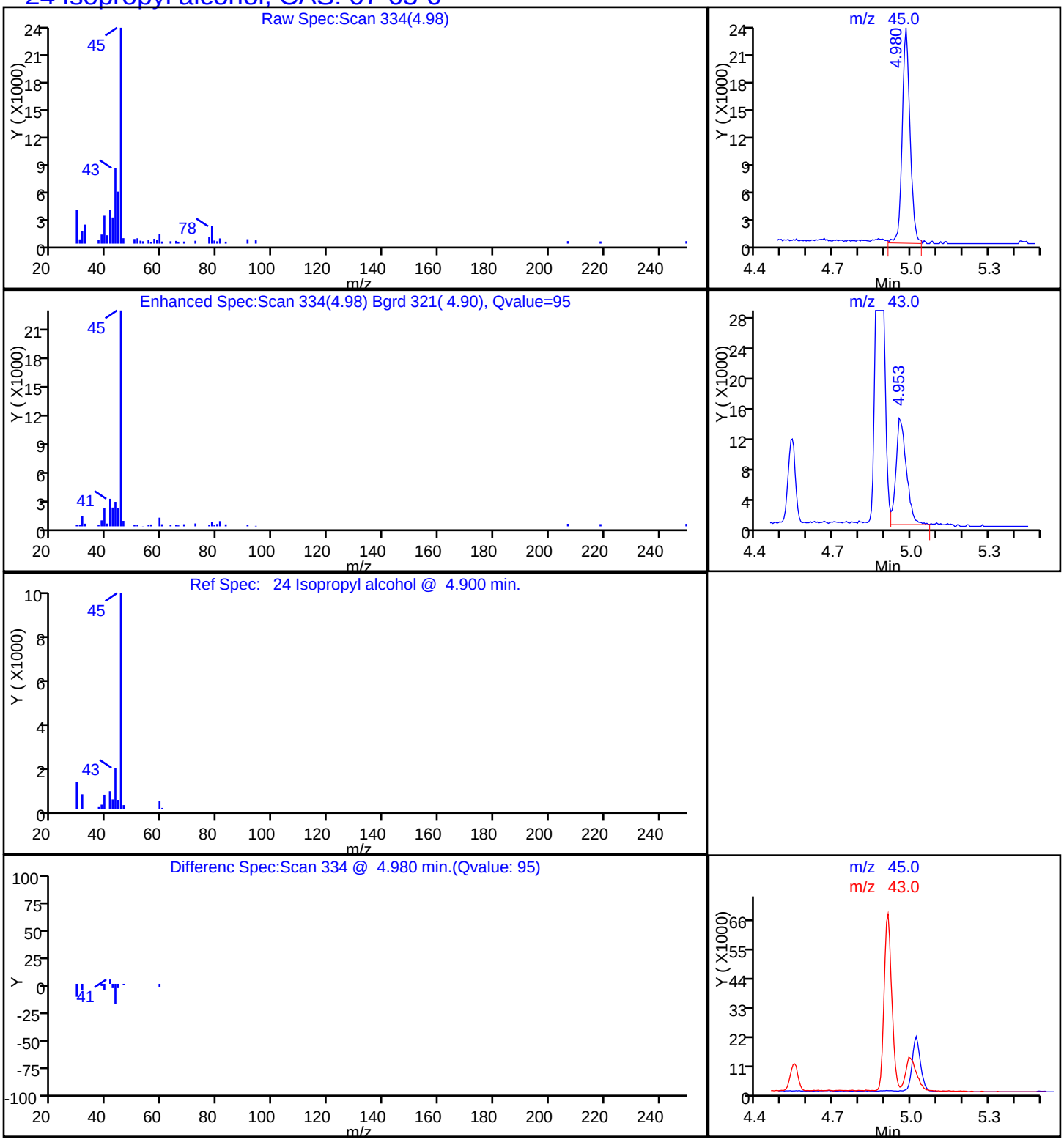
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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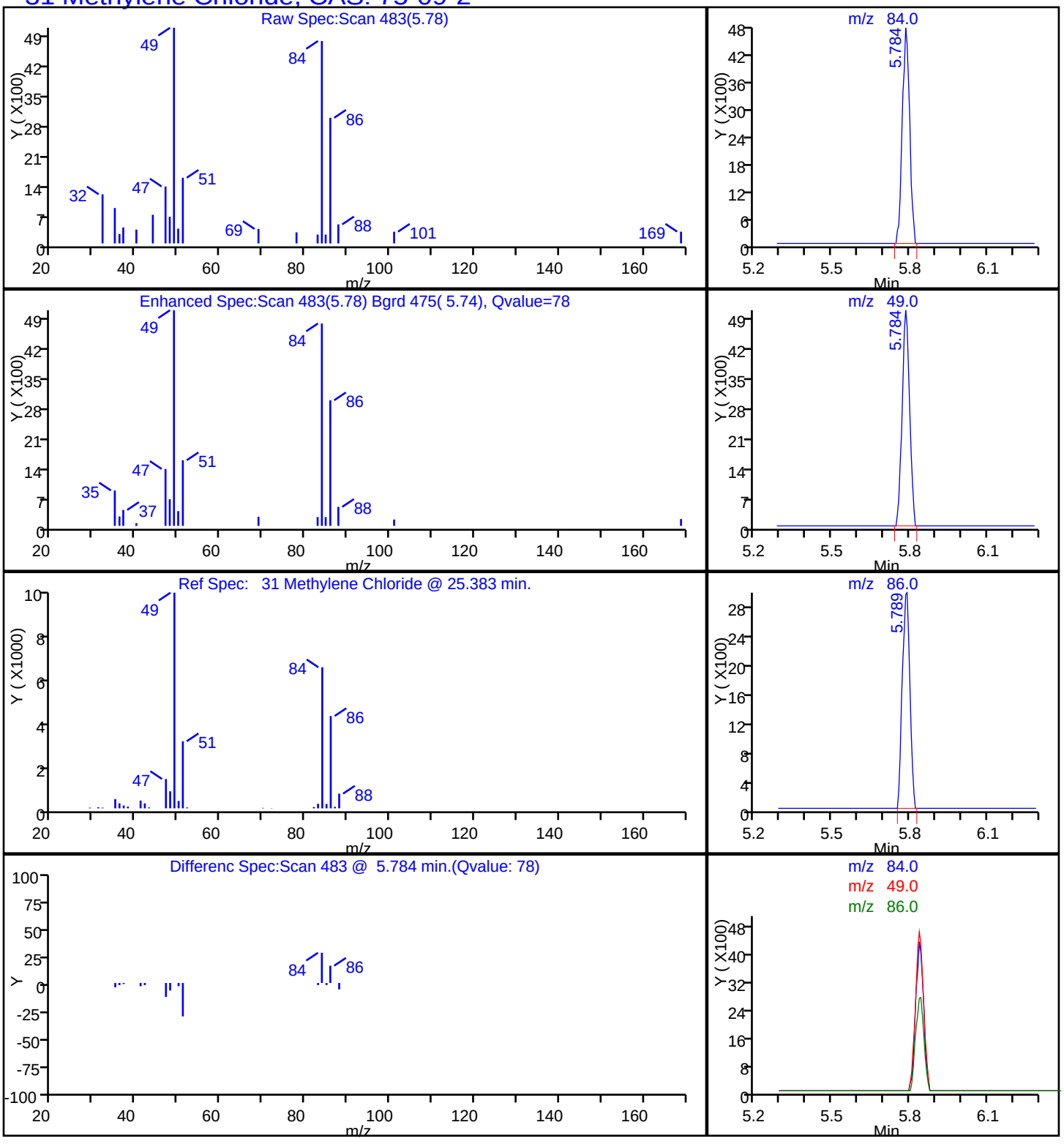
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



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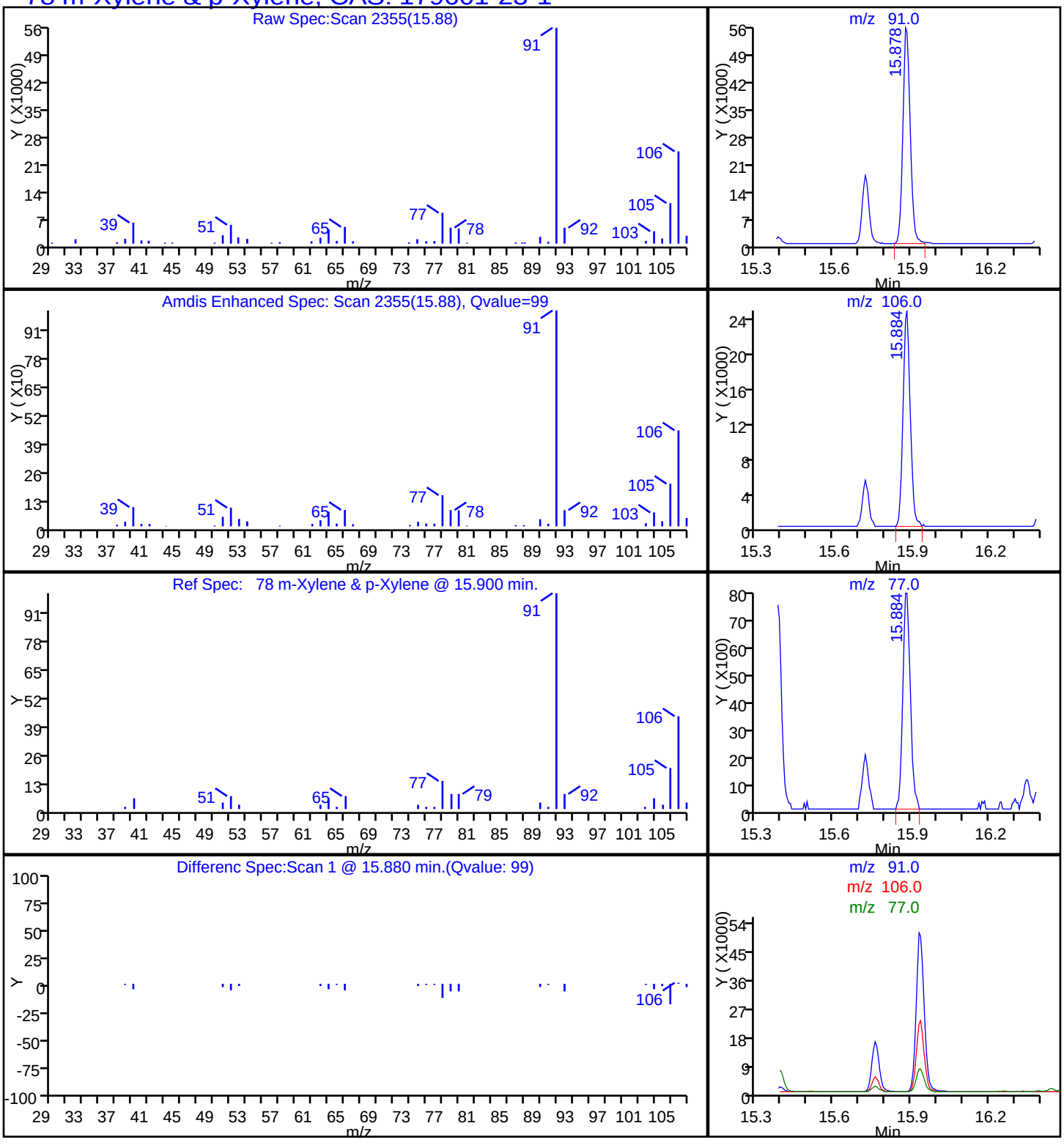
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME		
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1		
Client ID:	PCV-IA1-B10				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
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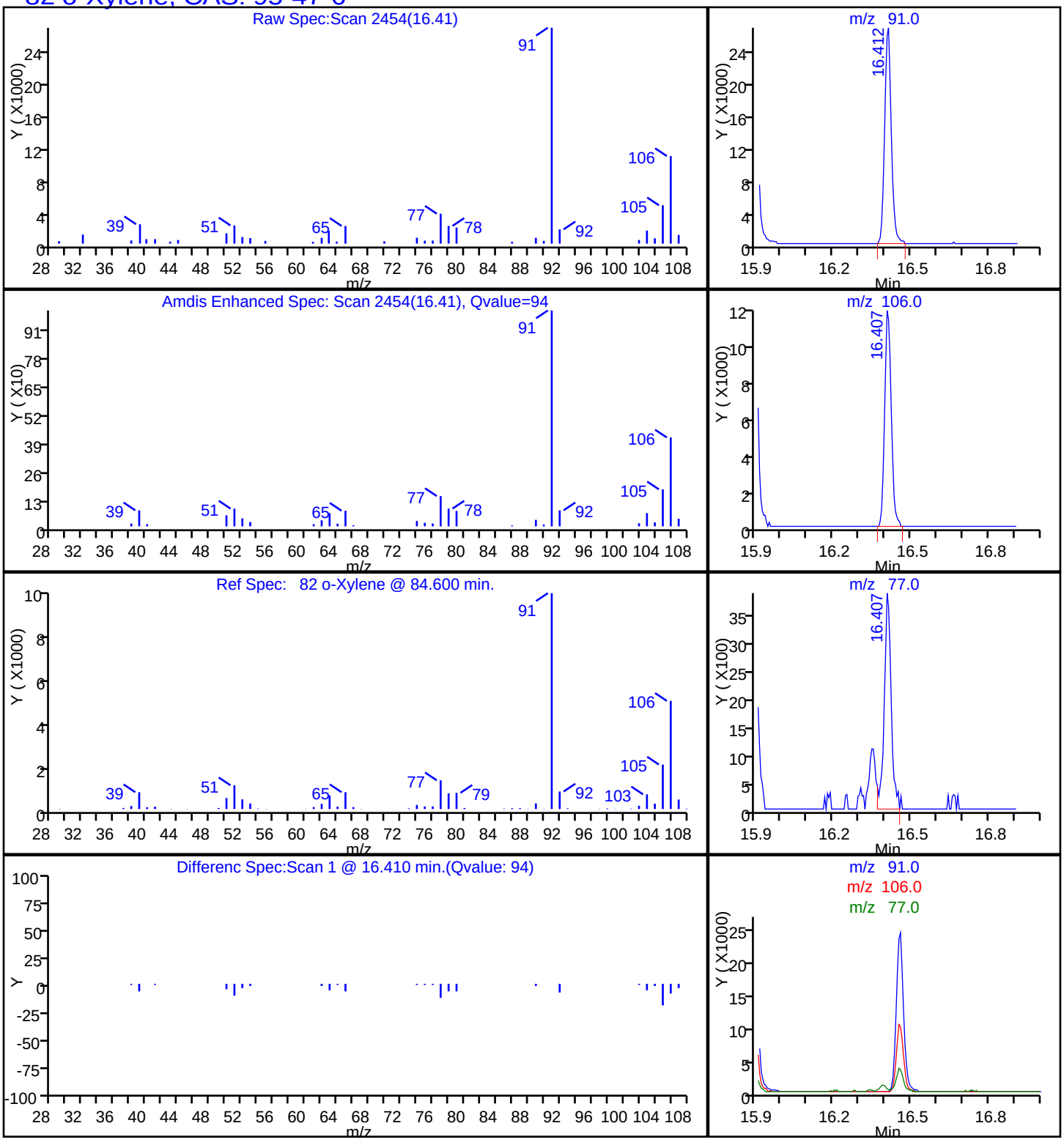
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
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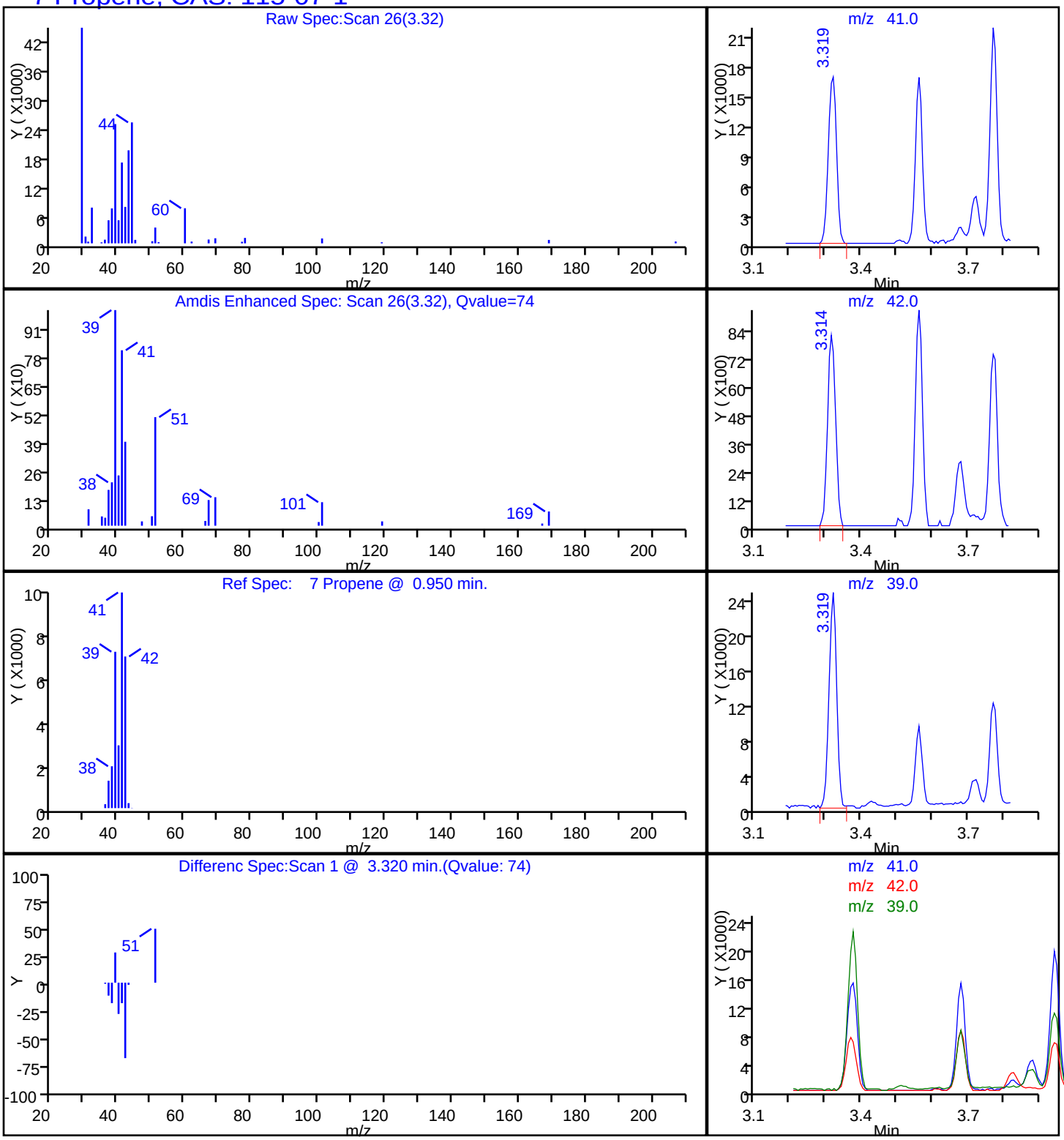
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



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Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
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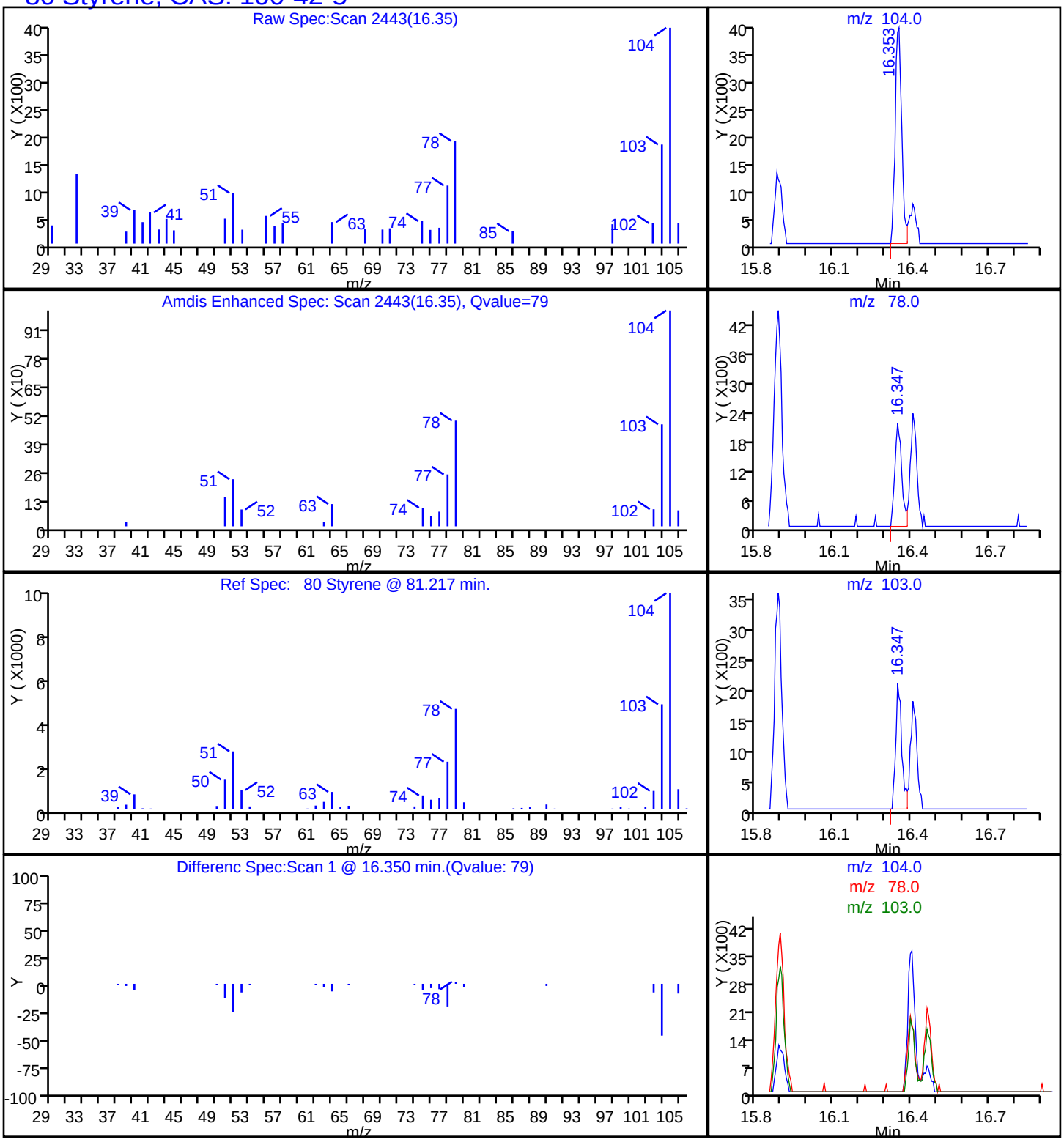
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



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Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
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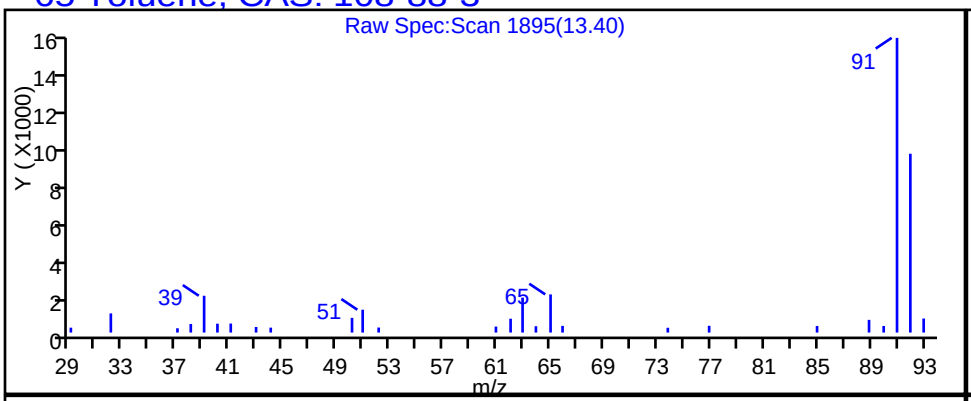
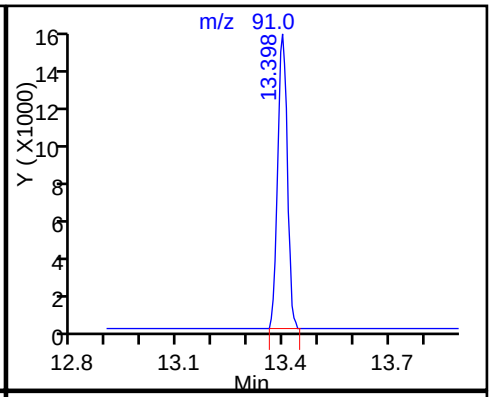
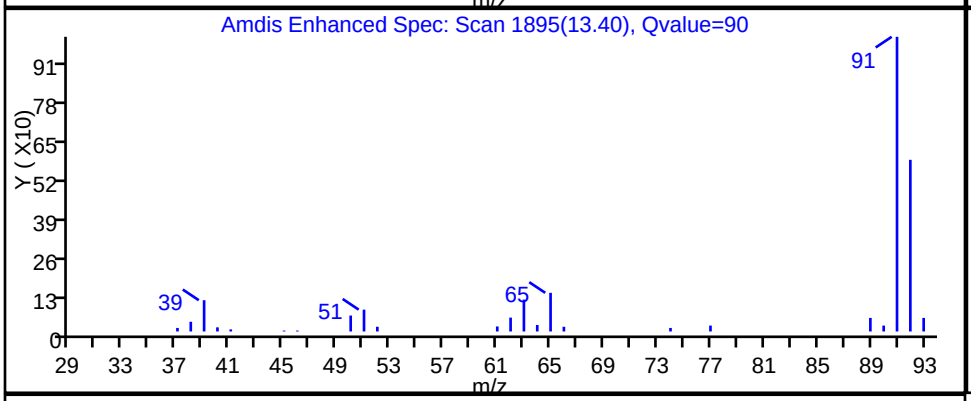
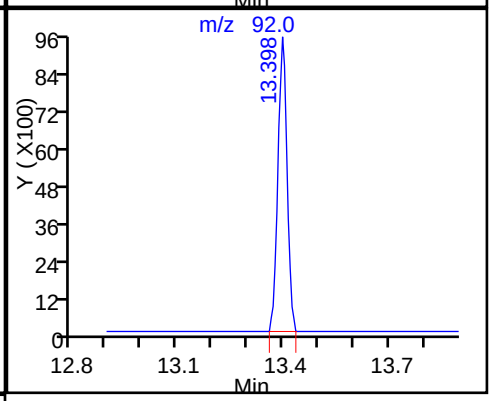
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

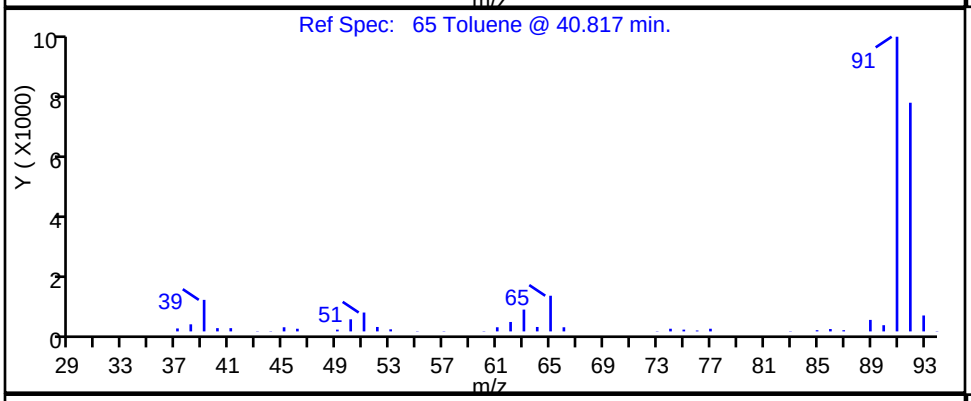
65 Toluene, CAS: 108-88-3

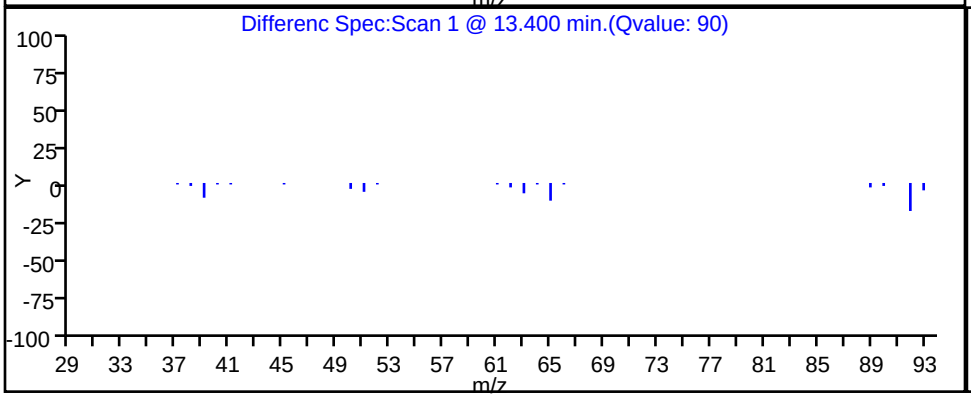


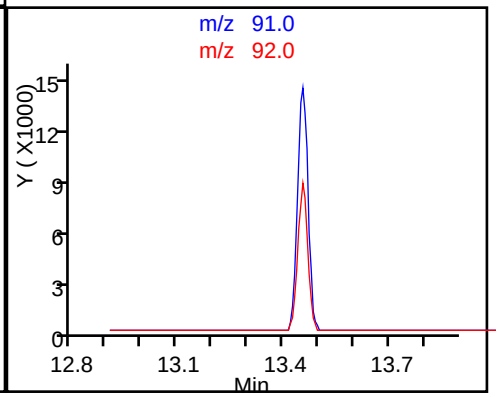












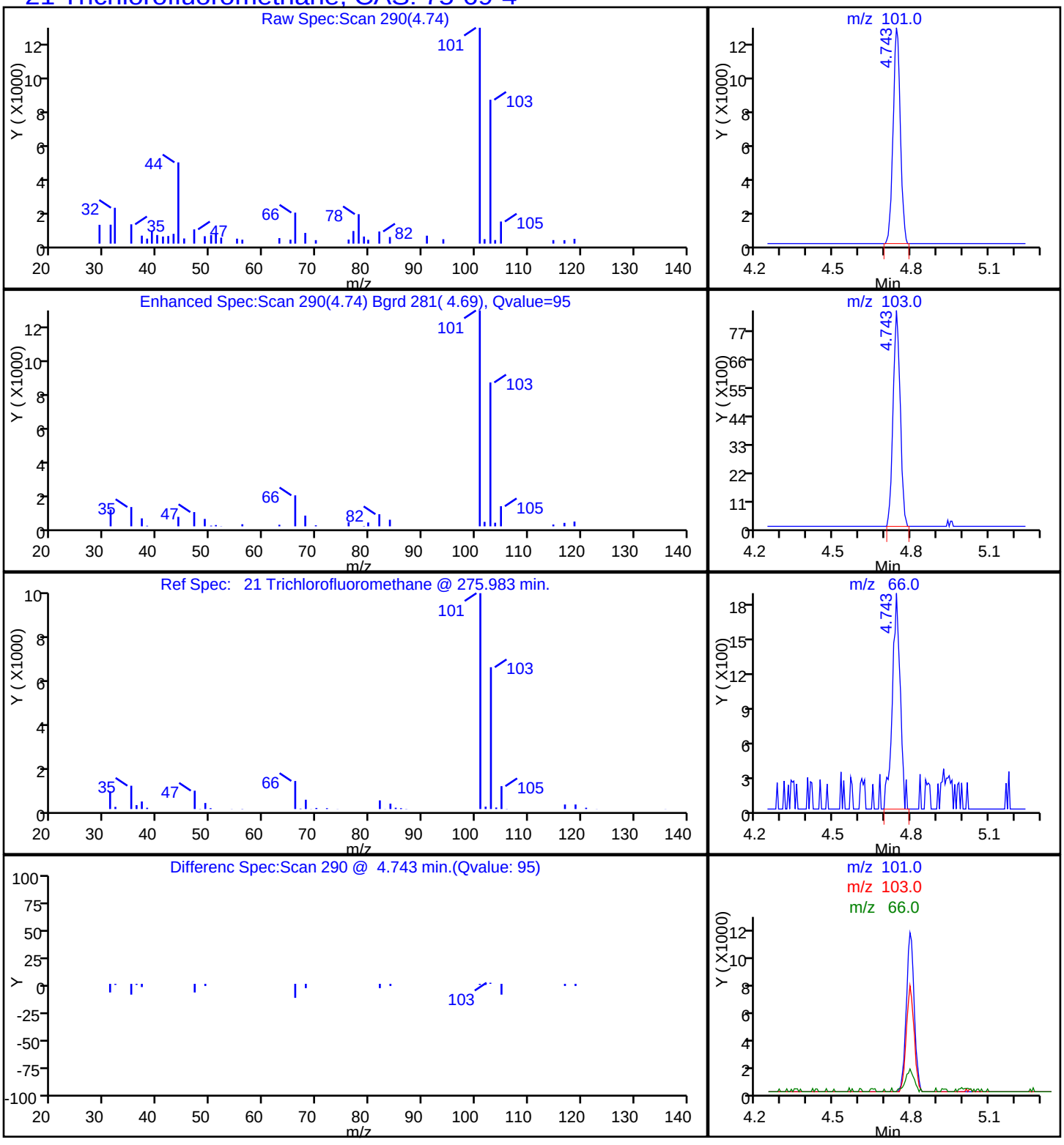
Report Date: 14-Mar-2014 07:22:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D

Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1
Client ID:	PCV-IA1-B10		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

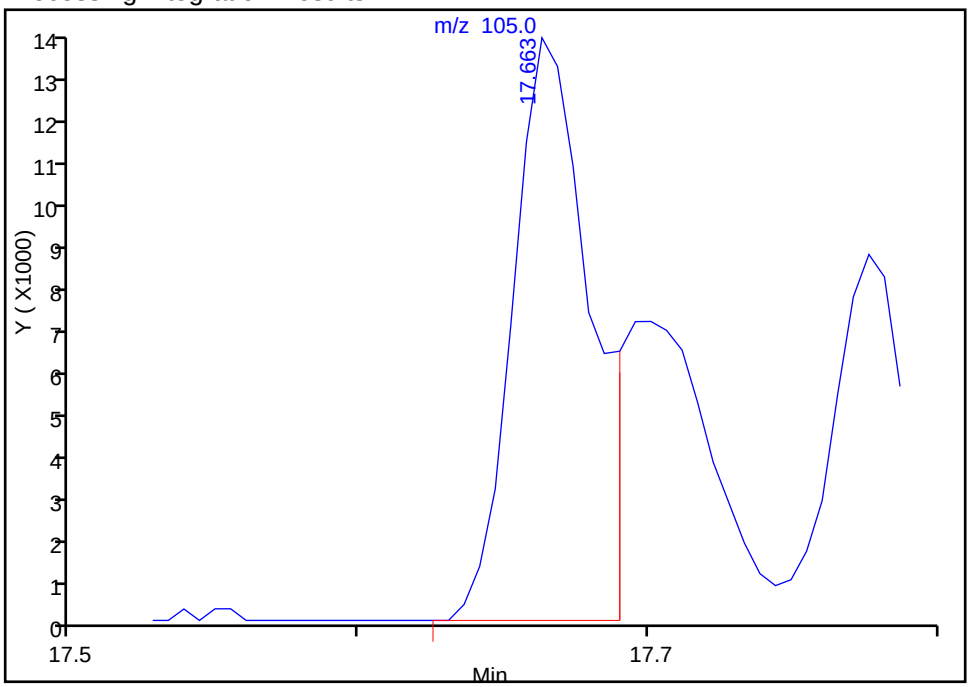
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P107.D				
Injection Date:	13-Mar-2014 19:42:30	Instrument ID:	ME		
Lims ID:	140-1037-A-1	Lab Sample ID:	140-1037-1		
Client ID:	PCV-IA1-B10				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

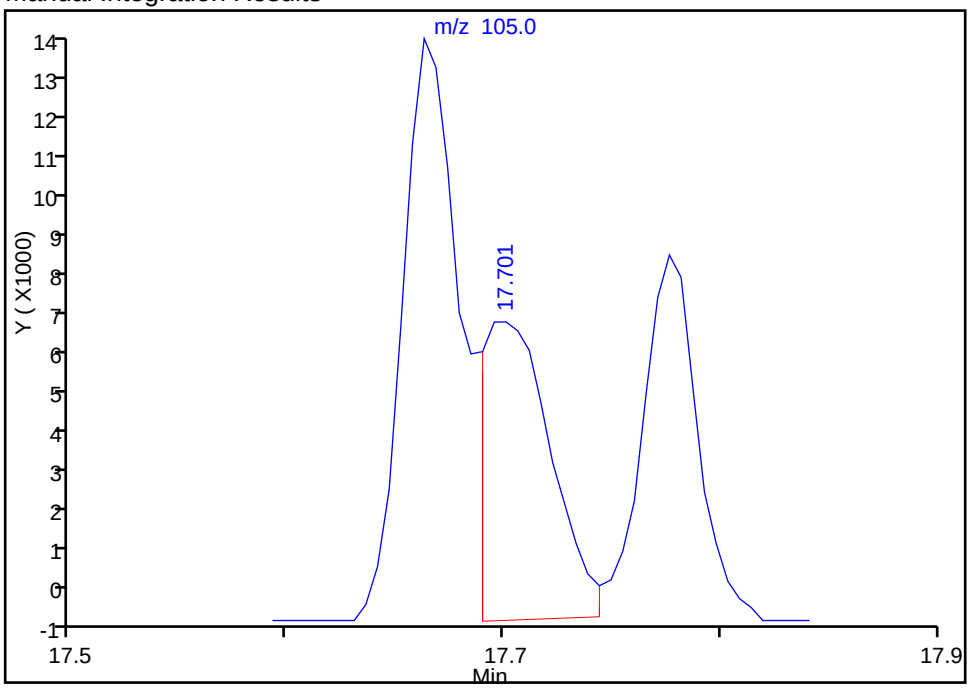
Processing Integration Results

RT: 17.66
Response: 24630
Amount: 0.068063



Manual Integration Results

RT: 17.70
Response: 14912
Amount: 0.041208



Reviewer: tajh, 14-Mar-2014 07:22:27
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.062	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.49		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.10	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.073	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.045	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.45	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.0		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.19	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.15	J	0.50	0.045
67-64-1	Acetone	58.08	6.0		5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.058	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.44	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.065	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	36		2.0	2.0
100-41-4	Ethylbenzene	106.17	2.9		0.20	0.068
142-82-5	Heptane	100.21	0.17	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	*Isopropyl alcohol*	*60.10*	*82*	*E*	*2.0*	*0.094*
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	14		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	5.0		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	0.079	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.040	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.42		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.23		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.47	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.4		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.50	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.16	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.21	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.95	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.62	J	2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.77		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.37	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.91	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.23	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	67		3.8	3.8
100-41-4	Ethylbenzene	106.17	13		0.87	0.30
142-82-5	Heptane	100.21	0.72	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.55	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	*Isopropyl alcohol*	*60.10*	*200*	*E*	*4.9*	*0.23*
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	61		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	22		0.87	0.26
115-07-1	Propene	42.08	2.2	cn	0.86	0.13
100-42-5	Styrene	104.15	0.34	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.27	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 Lab Sample ID: 140-1037-2

Matrix: Air Lab File ID: EC13P108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 20:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D
Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2
Client ID: PCV-IA2-B10
Sample Type: Client
Inject. Date: 13-Mar-2014 20:27:30 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-2
Misc. Info.: E031314,TO155,,140-0000518-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:22:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:22:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	79	237499	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1206182	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	1073945	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	927909	3.95	
7 Propene	41	3.314	3.309	0.005	72	30702	0.5139	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	45216	0.1721	
9 Chloromethane	52	3.530	3.530	0.0	99	3703	0.1766	
13 Butadiene	54	3.767	3.772	-0.005	28	1626	0.0290	
17 Ethanol	31	4.317	4.312	0.005	98	338253	14.2	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	33660	0.4047	
21 Trichlorofluoromethane	101	4.738	4.748	-0.010	96	24394	0.0926	
23 Acetone	58	4.867	4.878	-0.011	92	86200	2.40	
24 Isopropyl alcohol	45	4.970	4.970	0.0	98	3054076	33.0	E
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.601	5.611	-0.010	76	4019	0.0246	
31 Methylene Chloride	84	5.778	5.789	-0.011	78	10811	0.1593	
39 2-Butanone (MEK)	72	7.580	7.585	-0.005	94	6973	0.1794	
40 Hexane	56	7.574	7.585	-0.011	55	3934	0.0623	
49 Cyclohexane	69	9.979	9.990	-0.011	48	1192	0.0262	
48 Benzene	78	9.979	9.995	-0.016	93	23510	0.0968	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	79	5419	0.0232	
53 Isooctane	57	10.777	10.788	-0.011	64	6781	0.0181	
54 n-Heptane	71	11.171	11.182	-0.011	72	6430	0.0700	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	81	8702	0.0609	
65 Toluene	91	13.393	13.403	-0.010	91	47976	0.1668	
73 Tetrachloroethene	129	14.546	14.552	-0.006	59	1962	0.0160	
76 Ethylbenzene	91	15.722	15.722	0.0	99	425638	1.15	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	98	1640471	5.66	
80 Styrene	104	16.348	16.353	-0.005	75	6322	0.0315	
82 o-Xylene	91	16.407	16.412	-0.005	97	625160	1.99	
88 4-Ethyltoluene	105	17.701	17.701	0.0	93	30594	0.0771	M
89 1,3,5-Trimethylbenzene	120	17.777	17.776	0.001	85	7334	0.0408	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	97	64899	0.1969	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

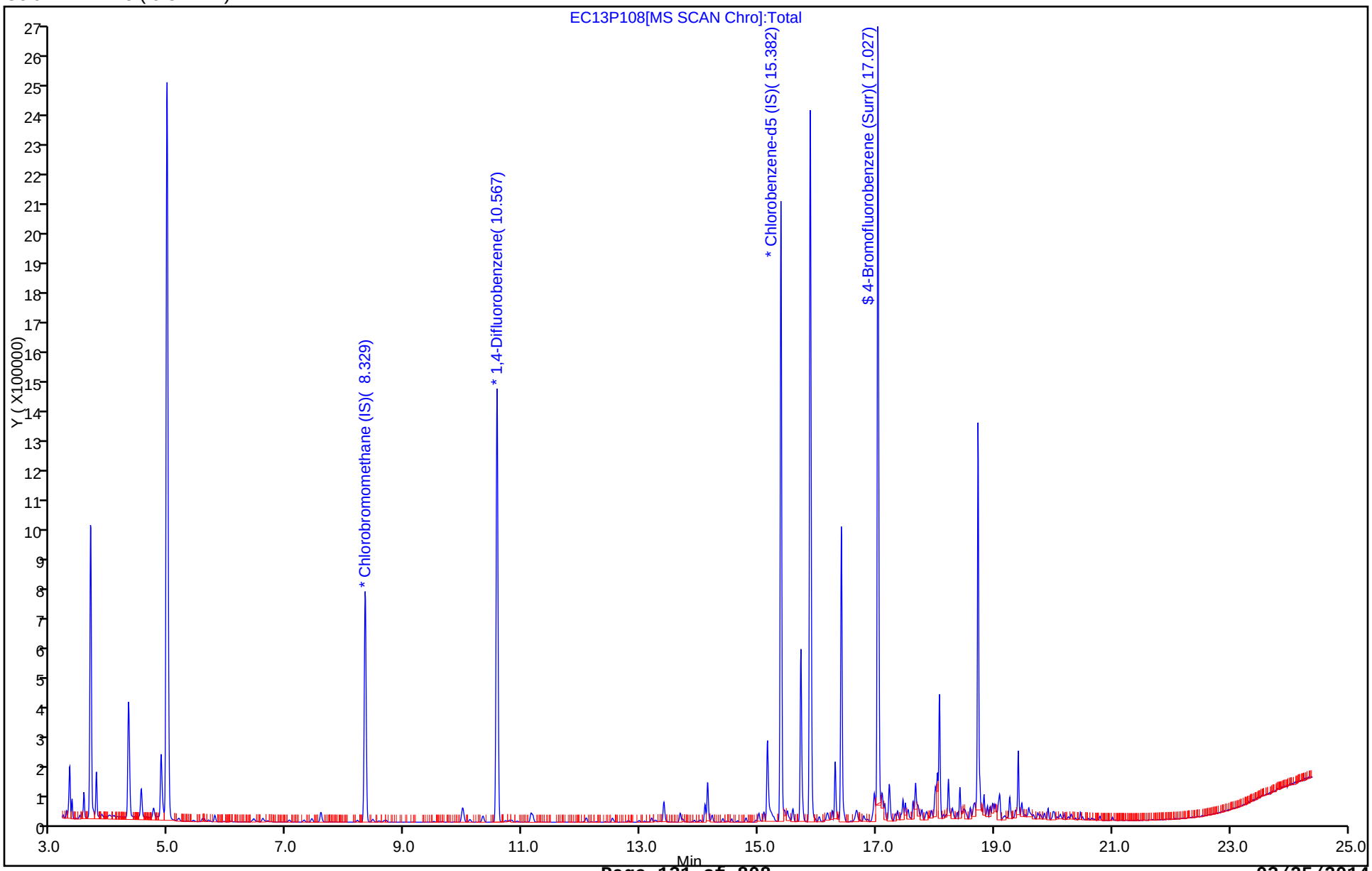
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2	Worklist Smp#:	13
Client ID:	PCV-IA2-B10				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date: 13-Mar-2014 20:27:30 Instrument ID: ME

Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2

Client ID: PCV-IA2-B10

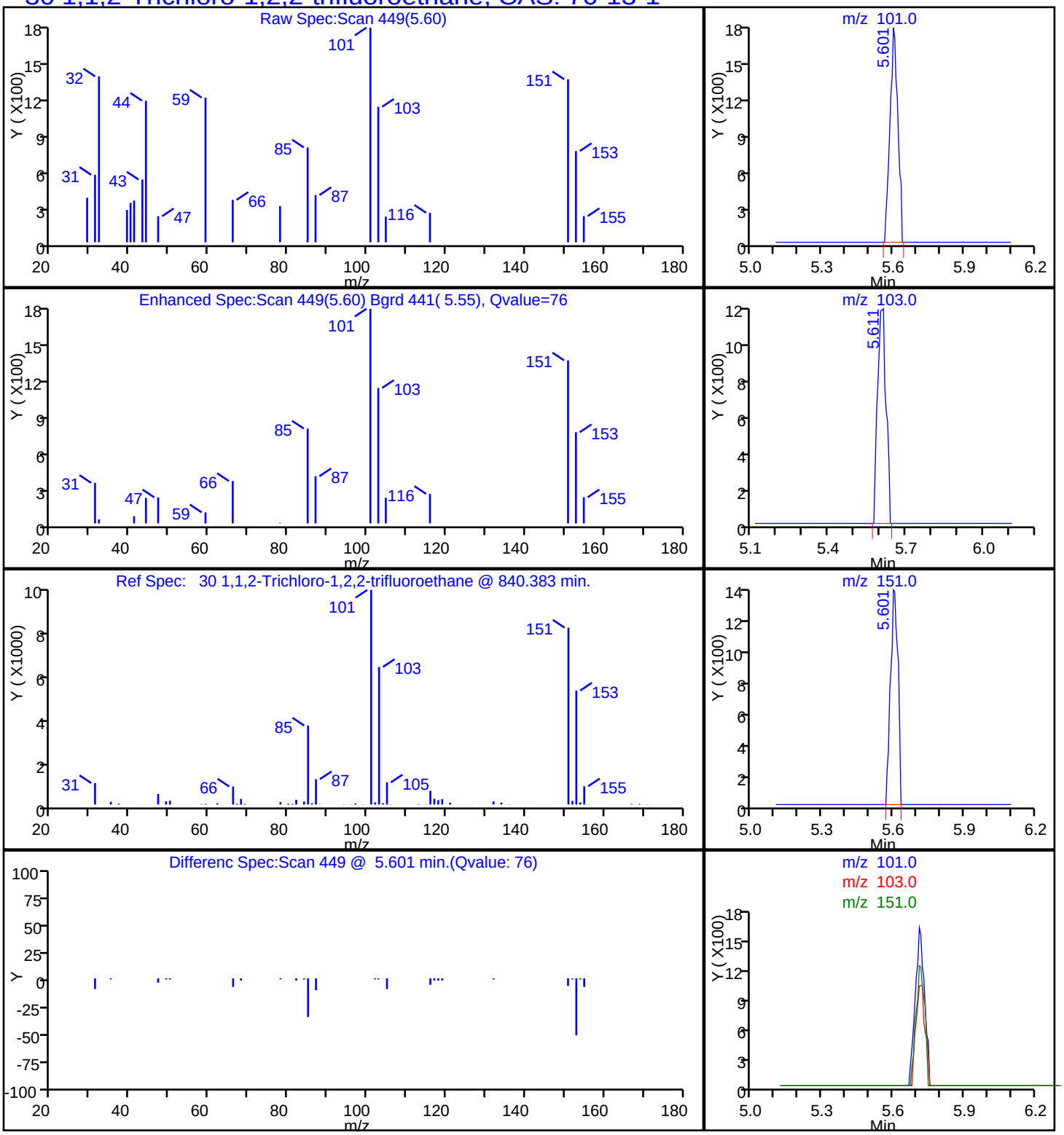
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

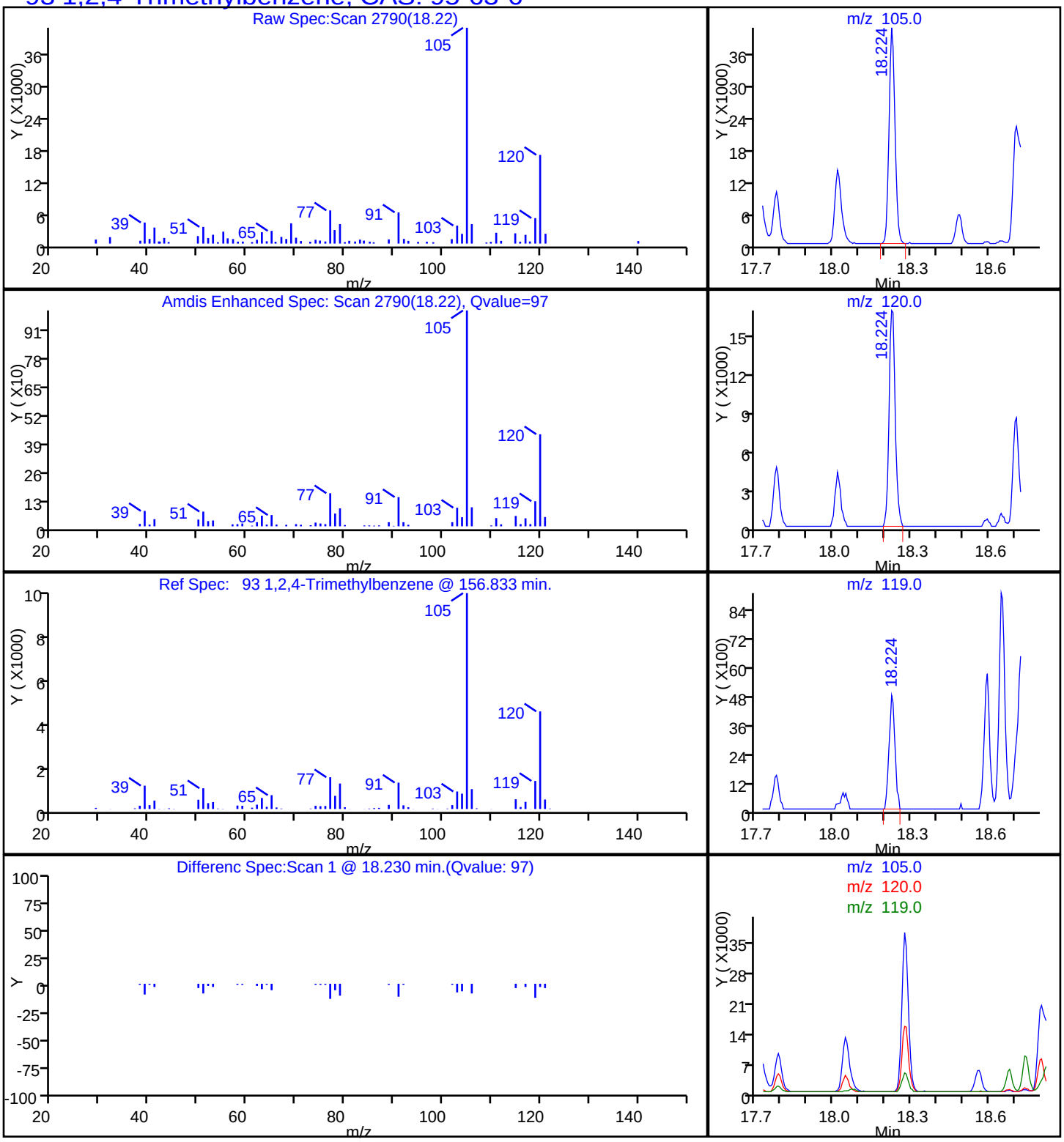


Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D				
Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



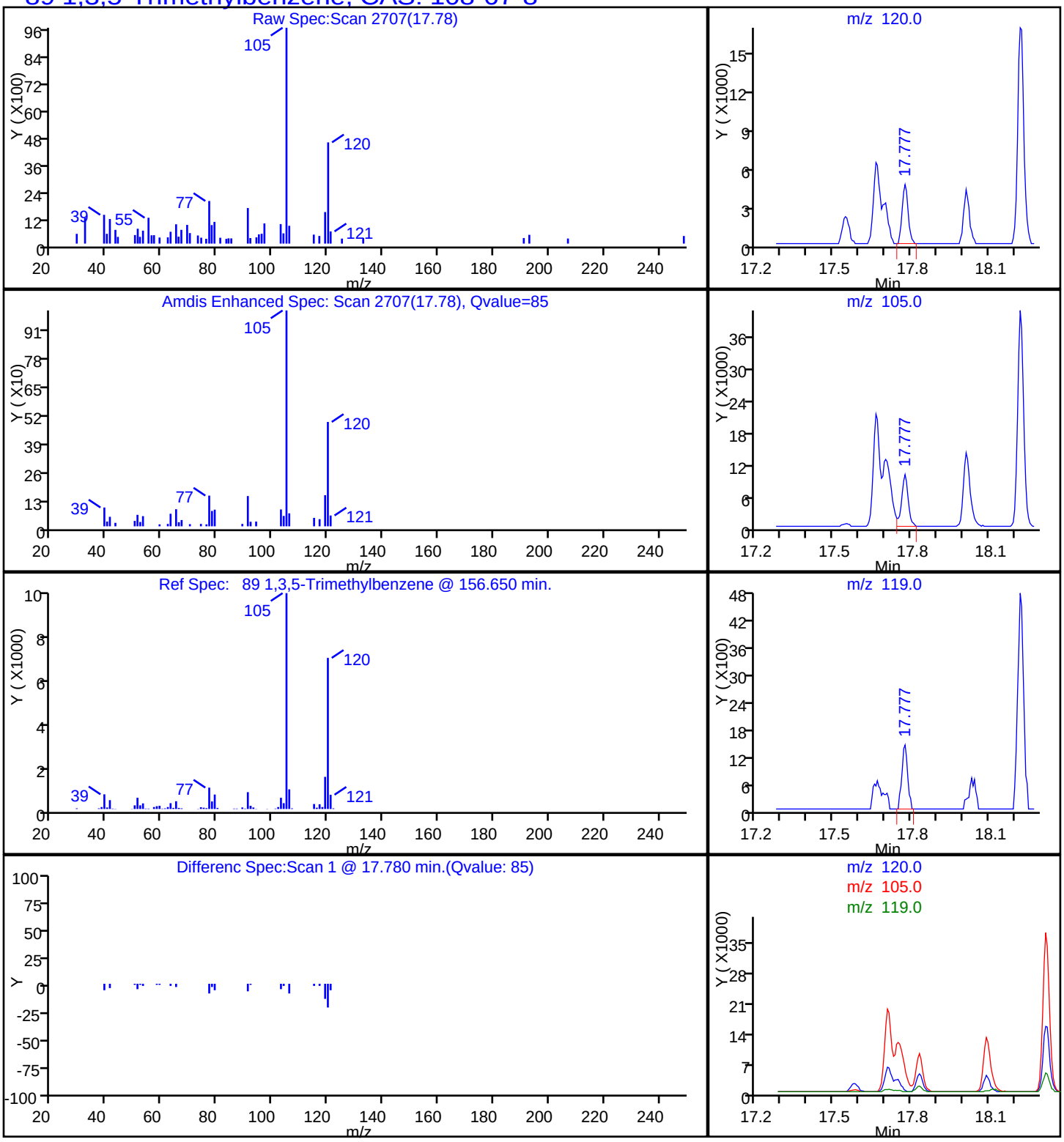
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



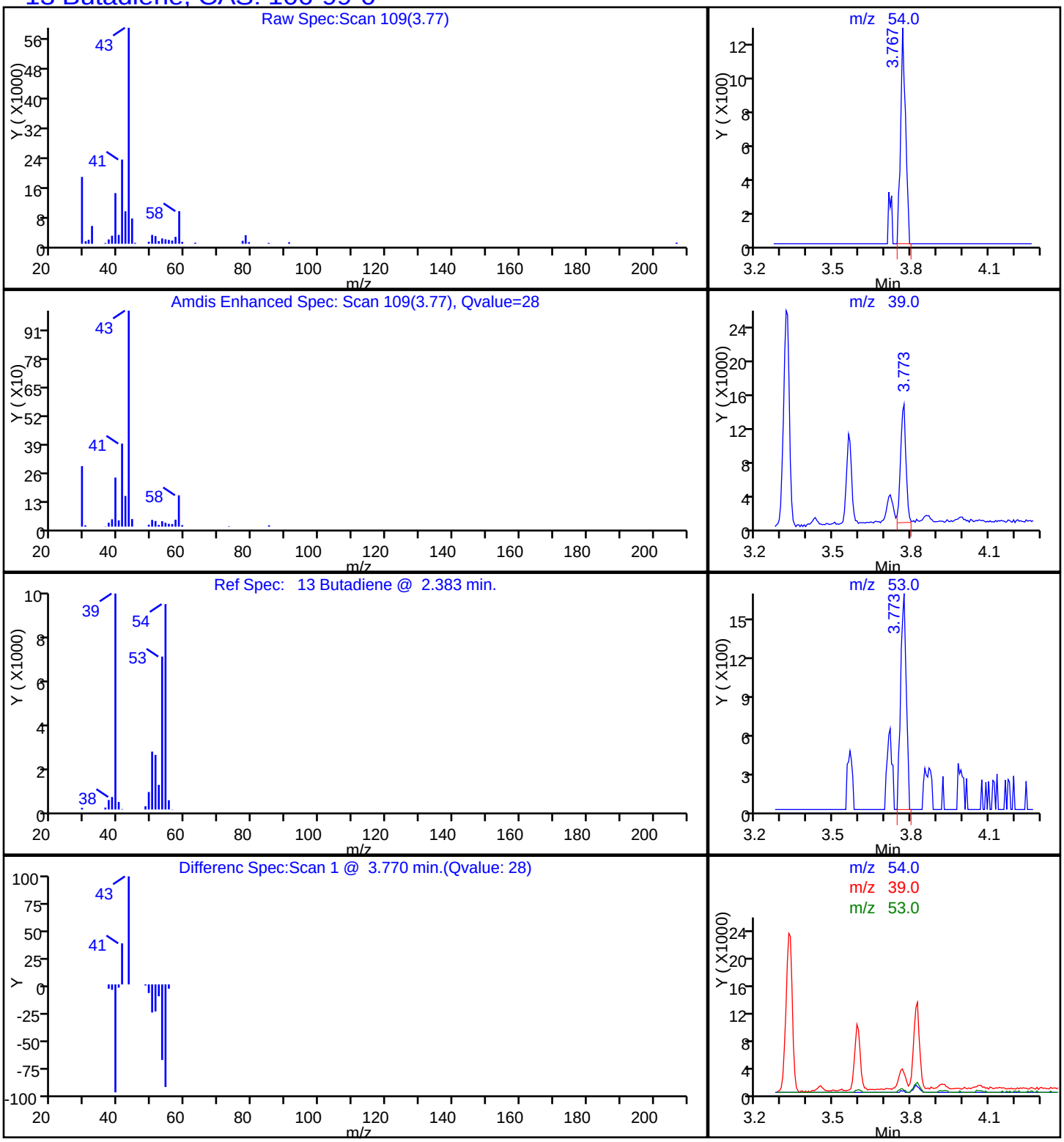
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



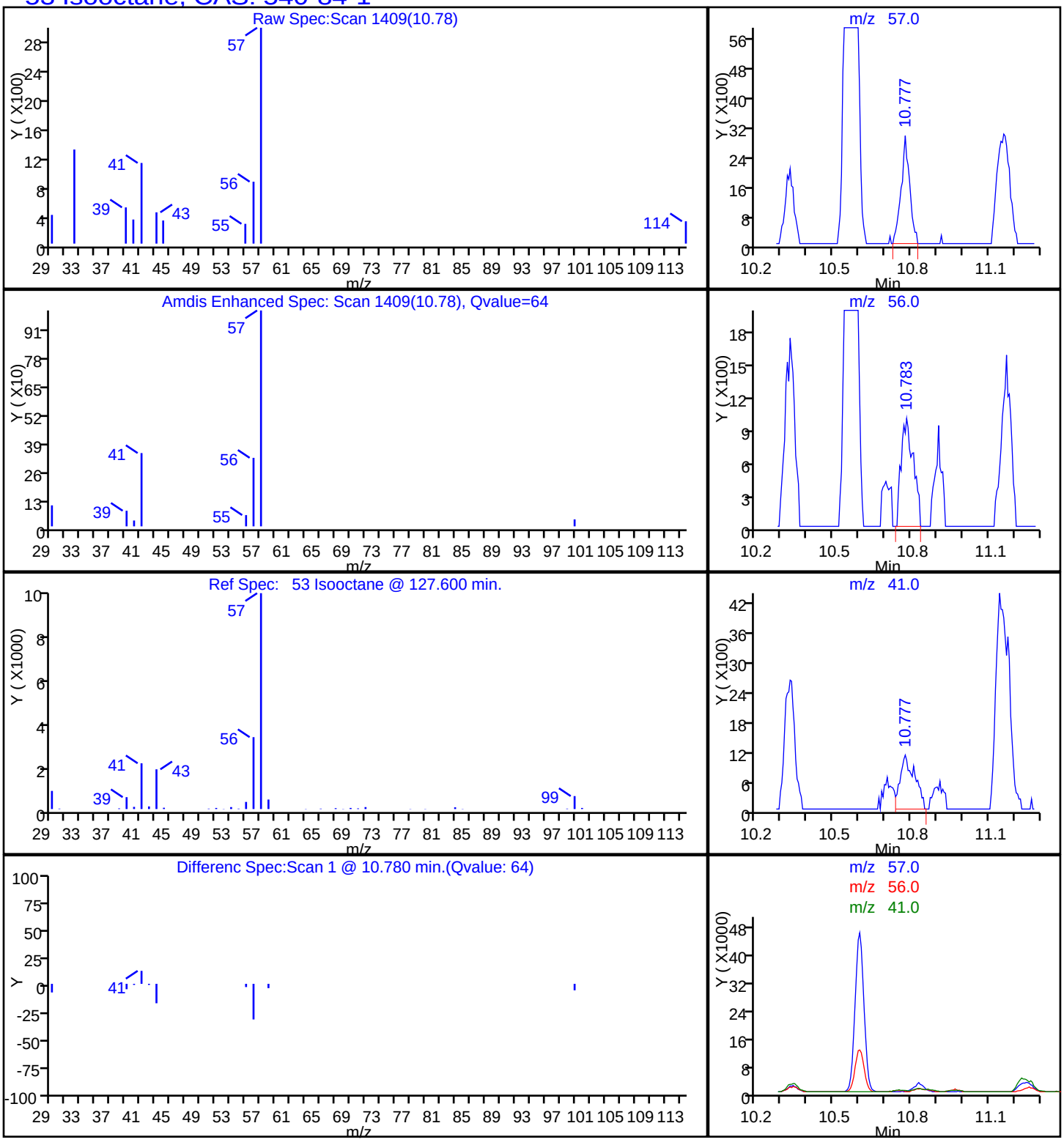
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



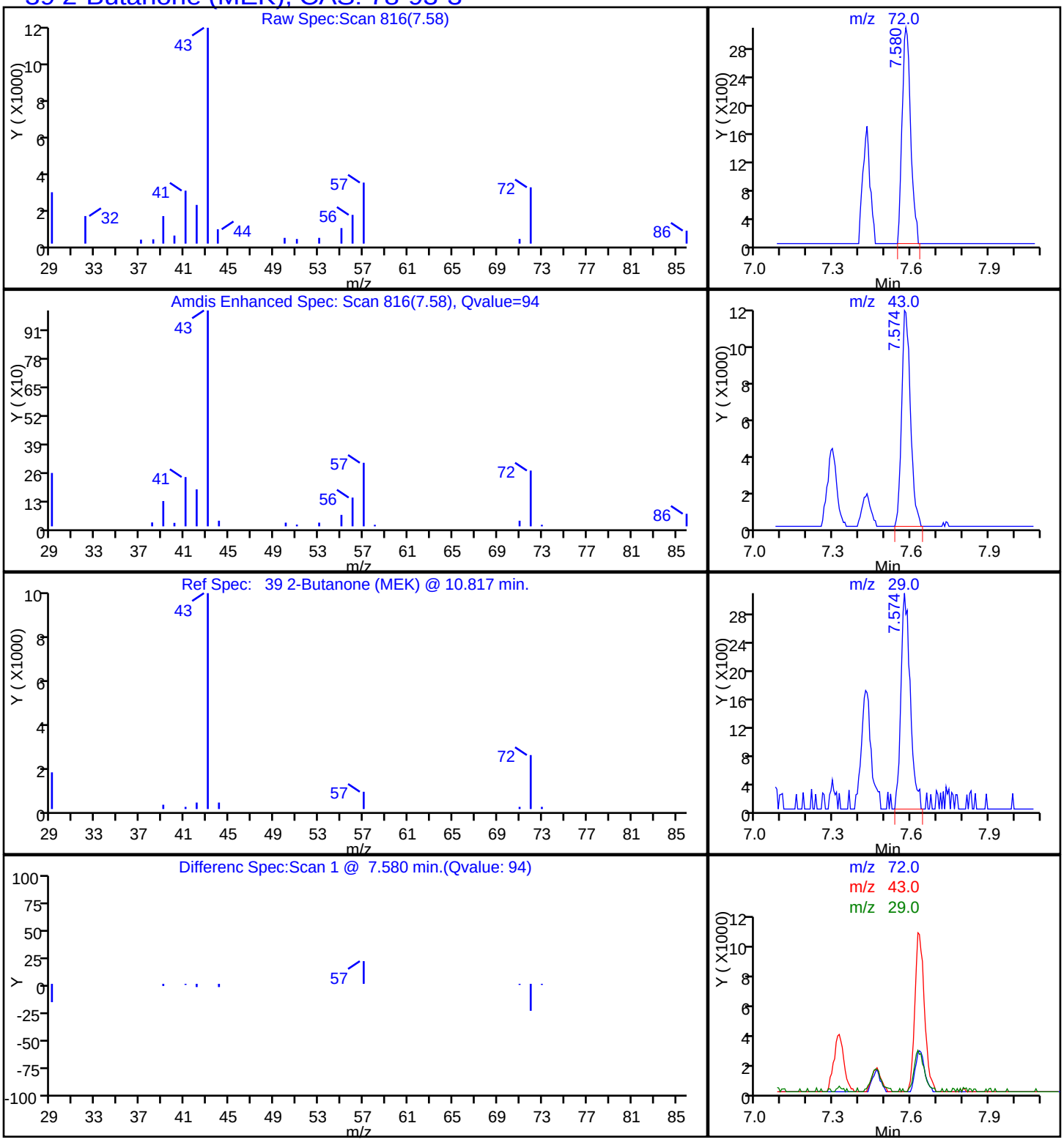
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date: 13-Mar-2014 20:27:30 Instrument ID: ME

Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2

Client ID: PCV-IA2-B10

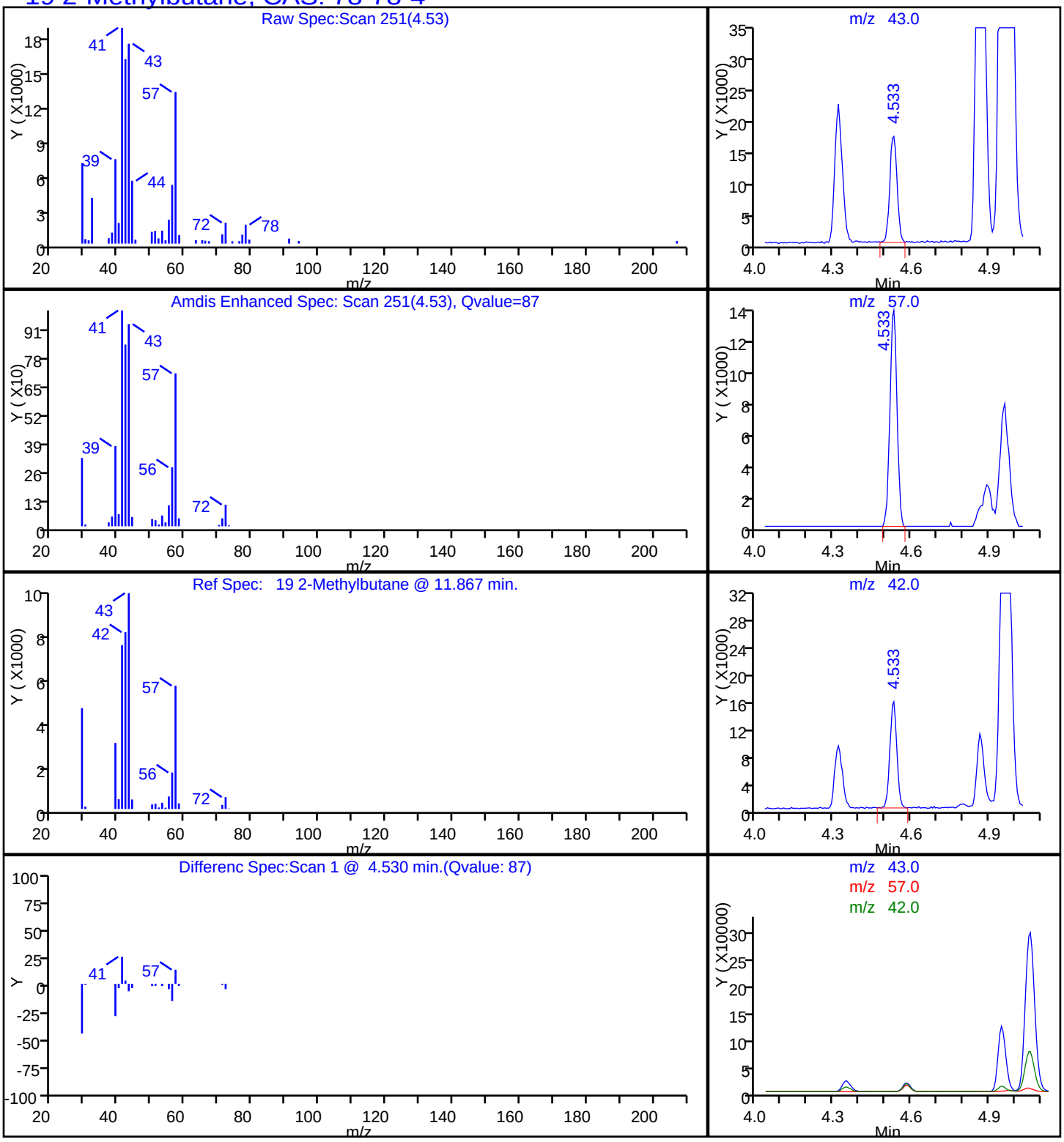
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



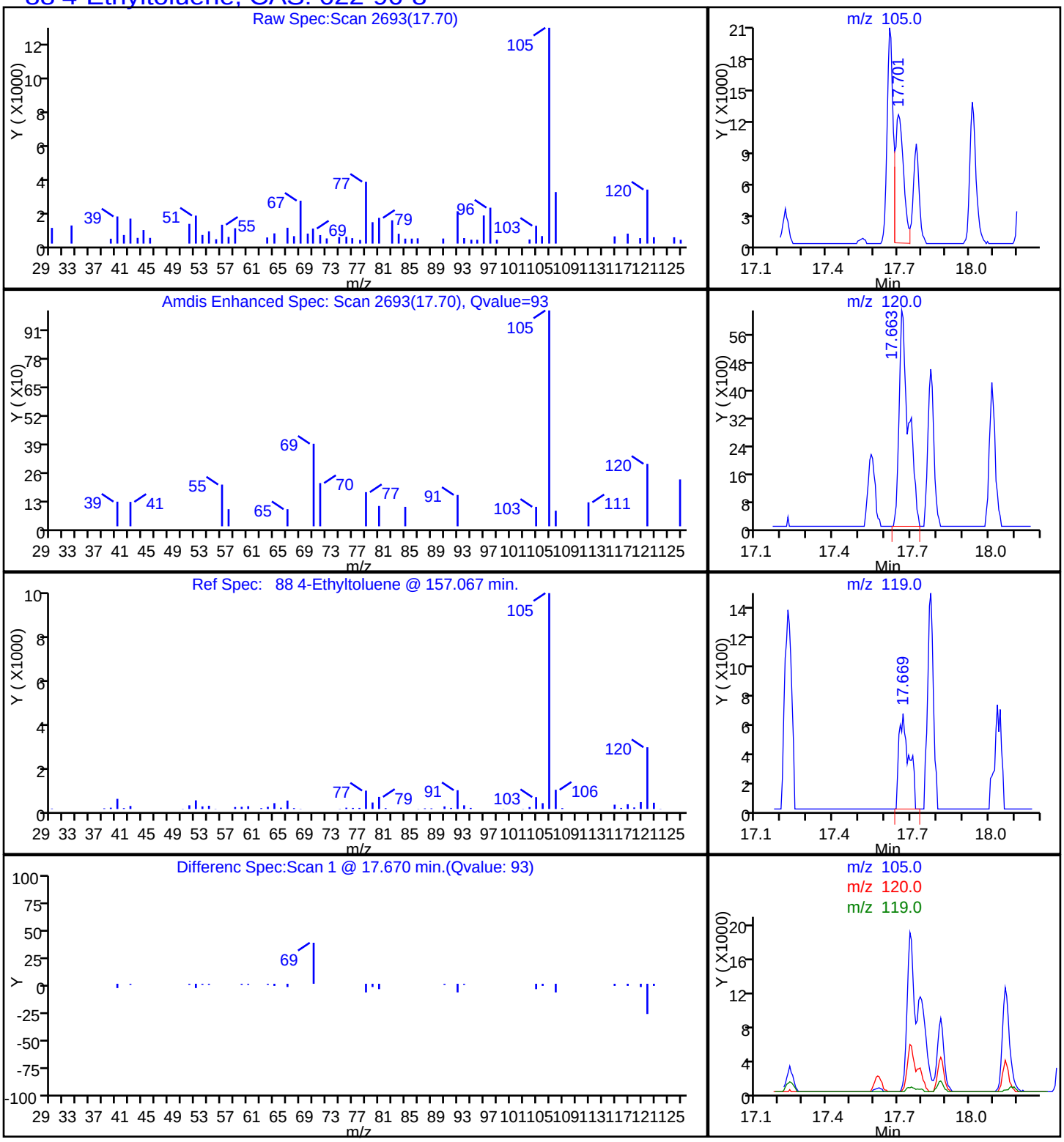
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



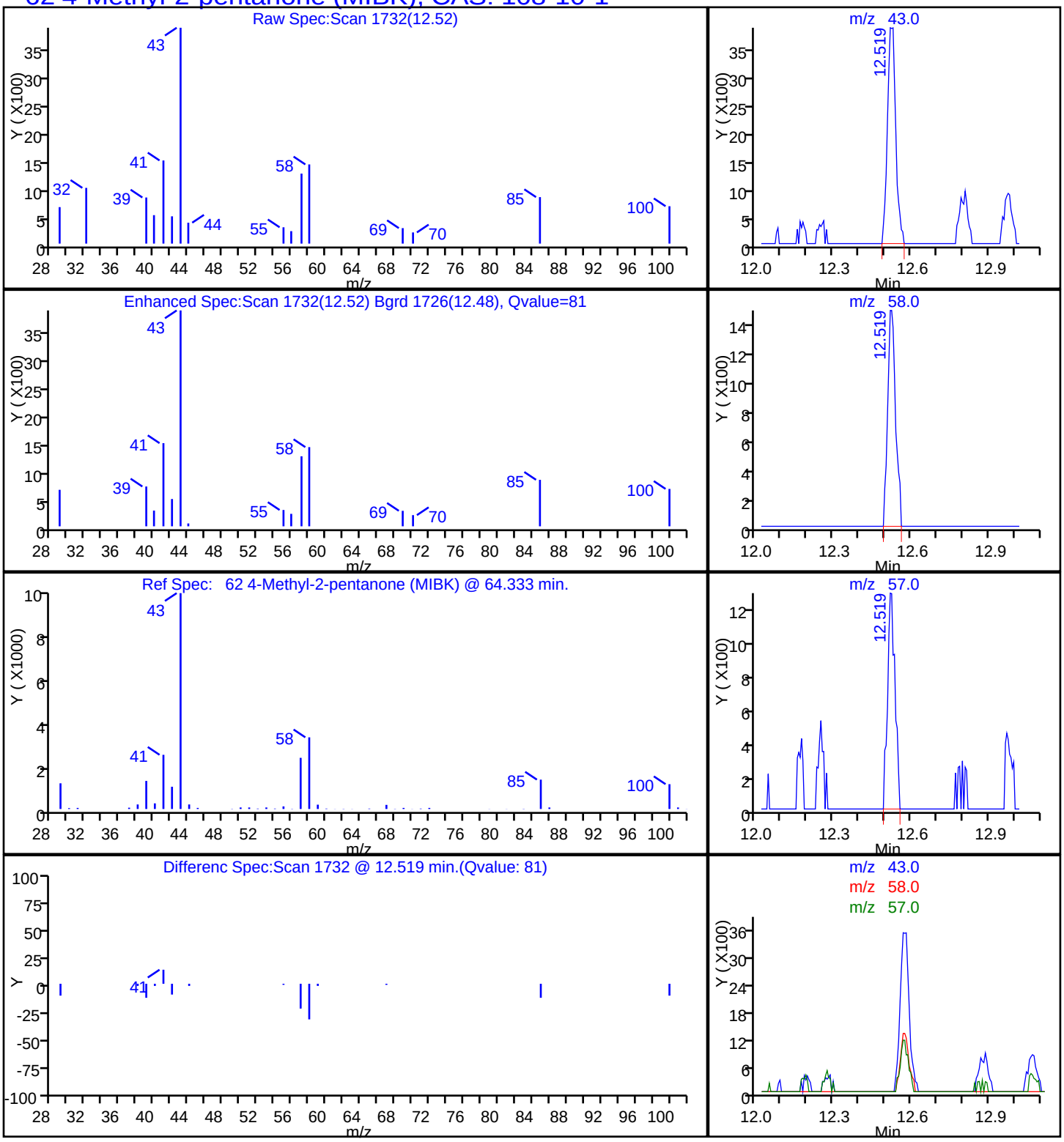
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



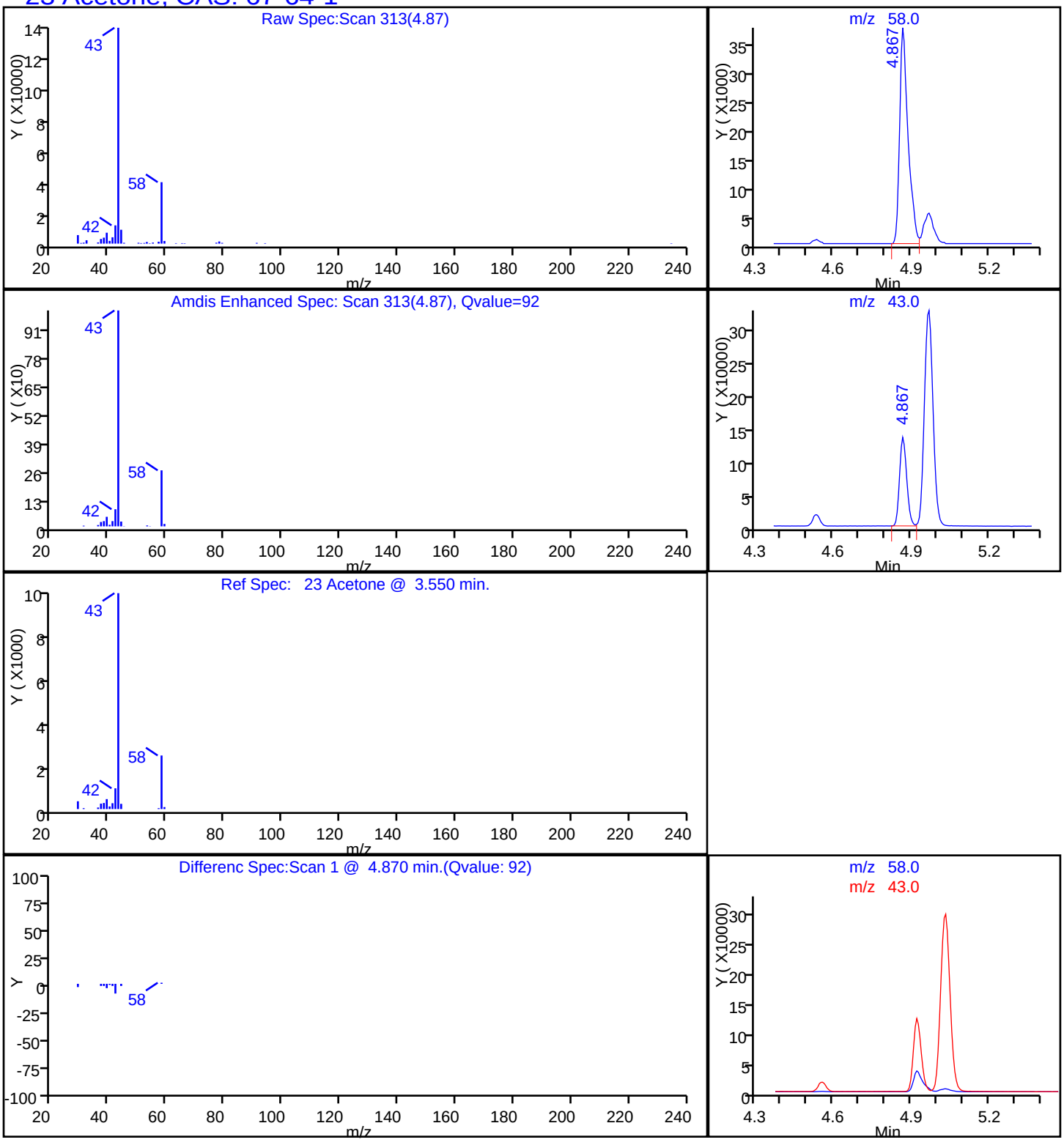
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D				
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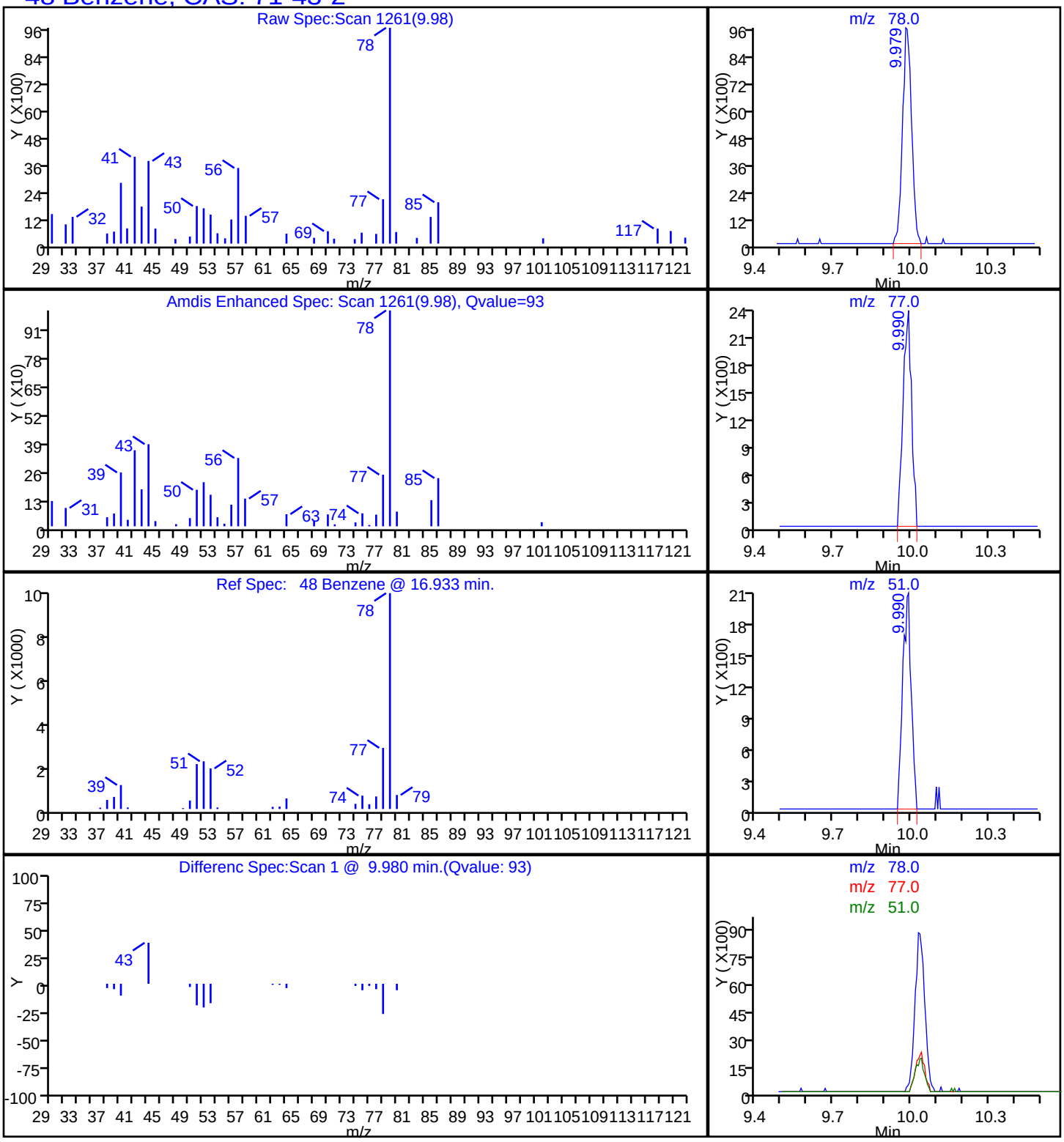
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



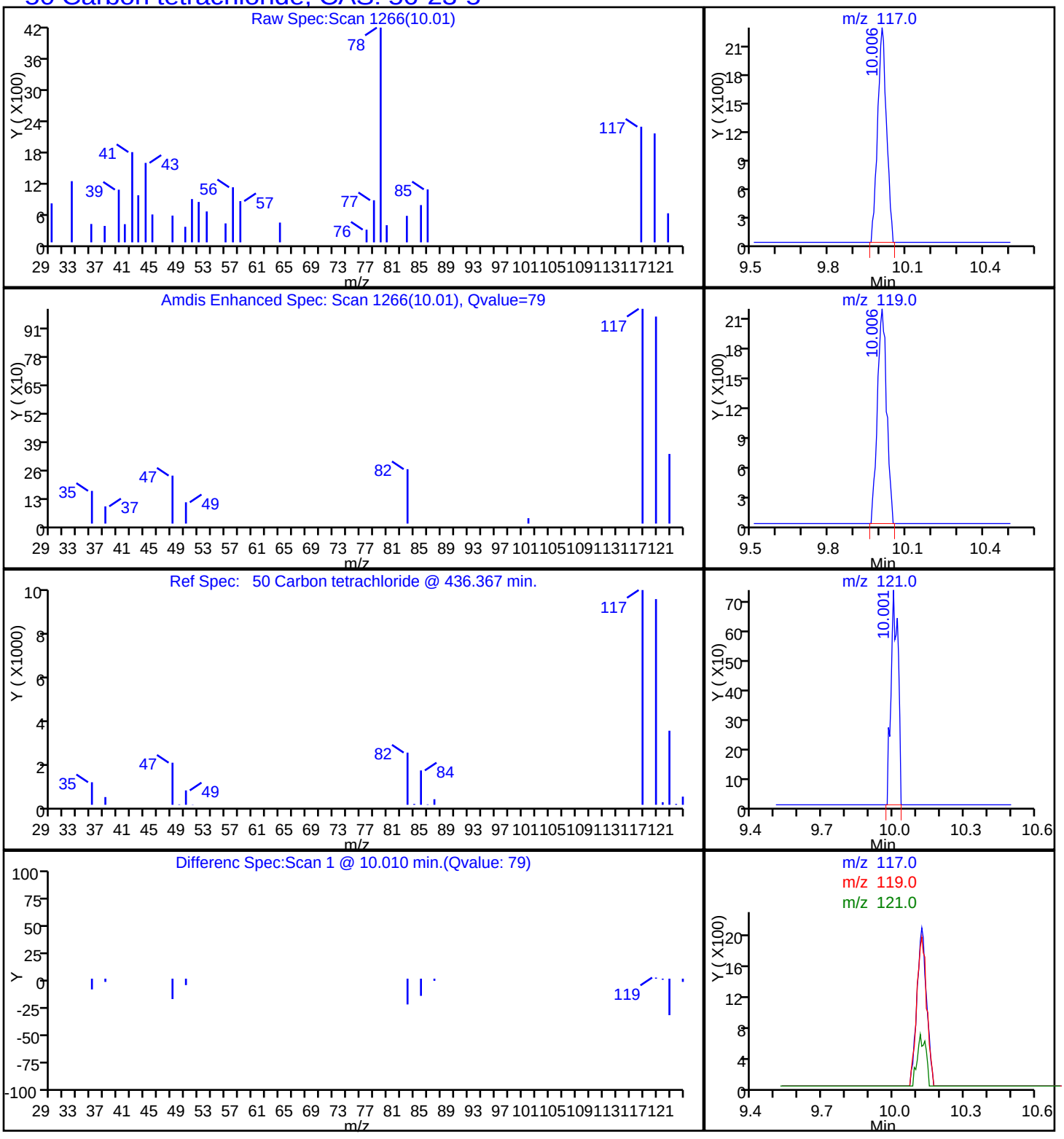
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date: 13-Mar-2014 20:27:30 Instrument ID: ME

Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2

Client ID: PCV-IA2-B10

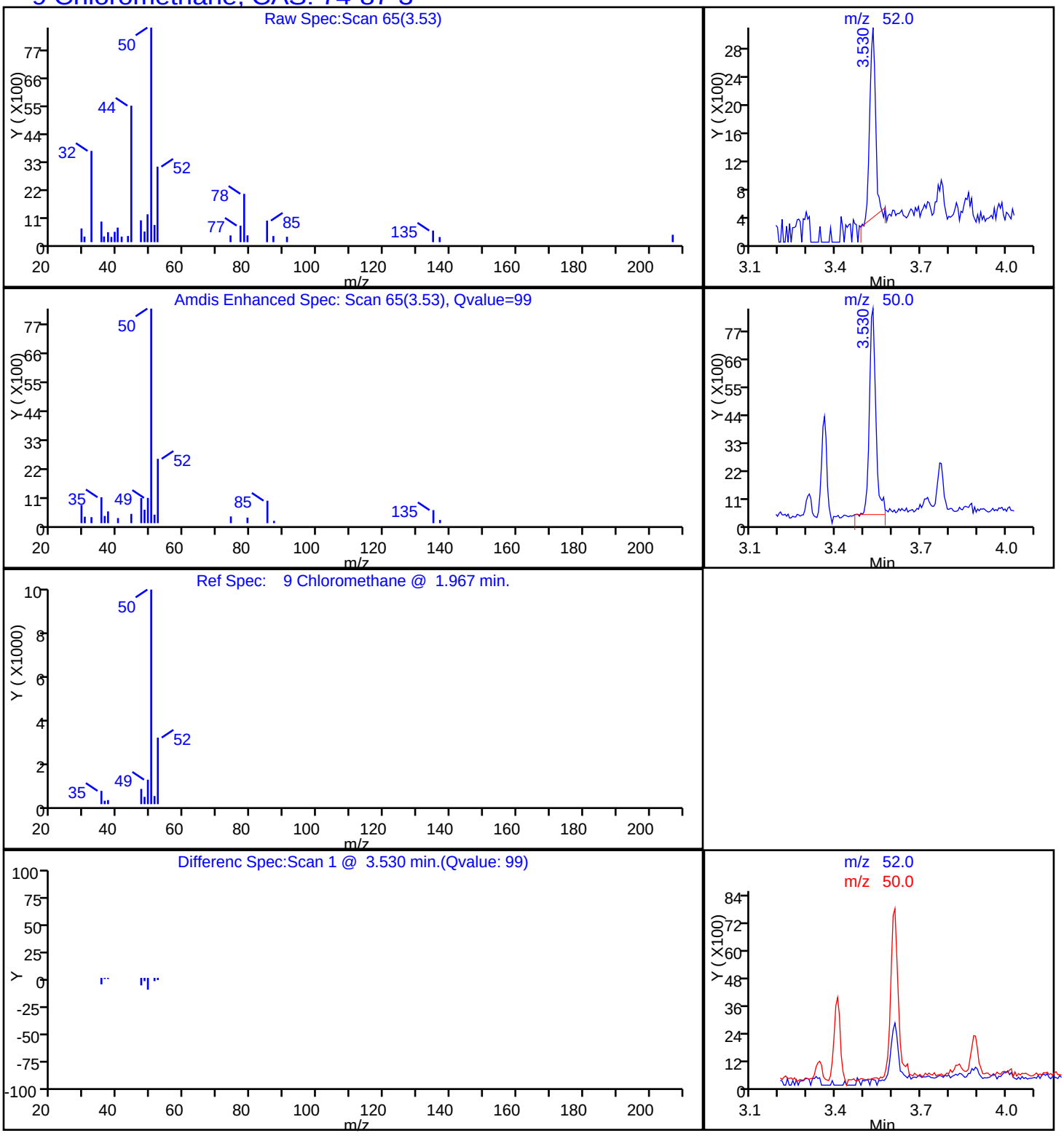
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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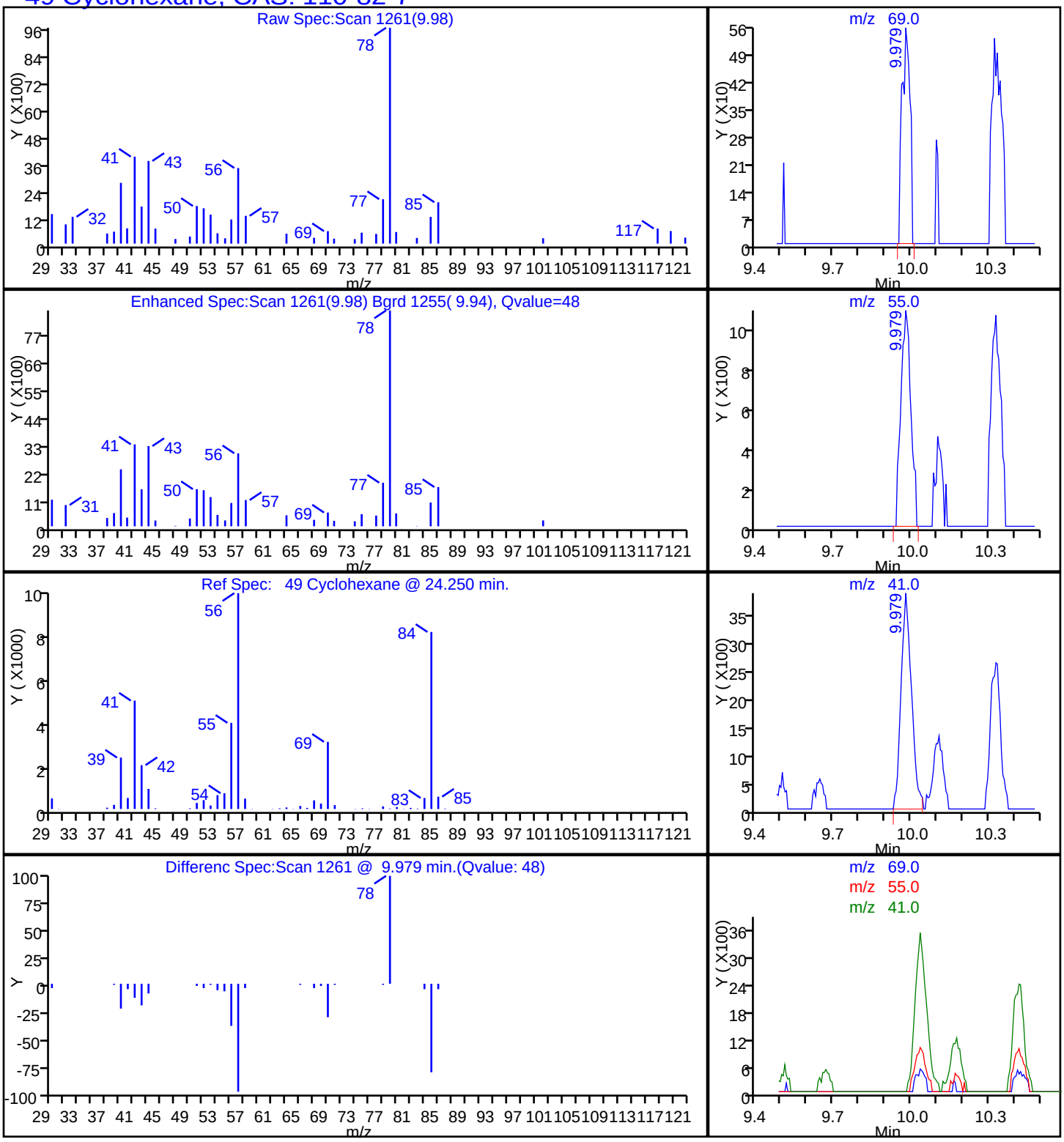
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7

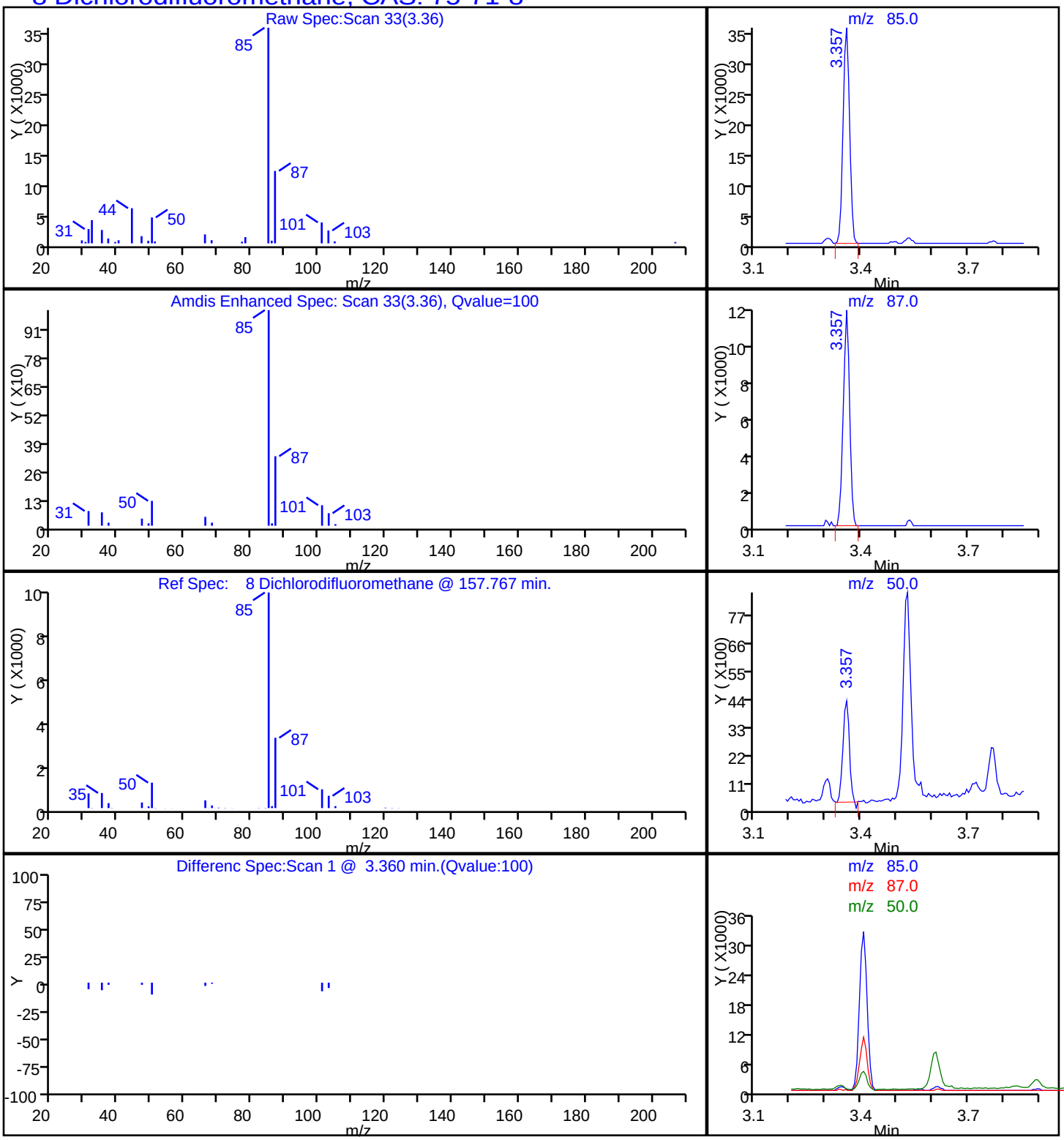


Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D				
Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



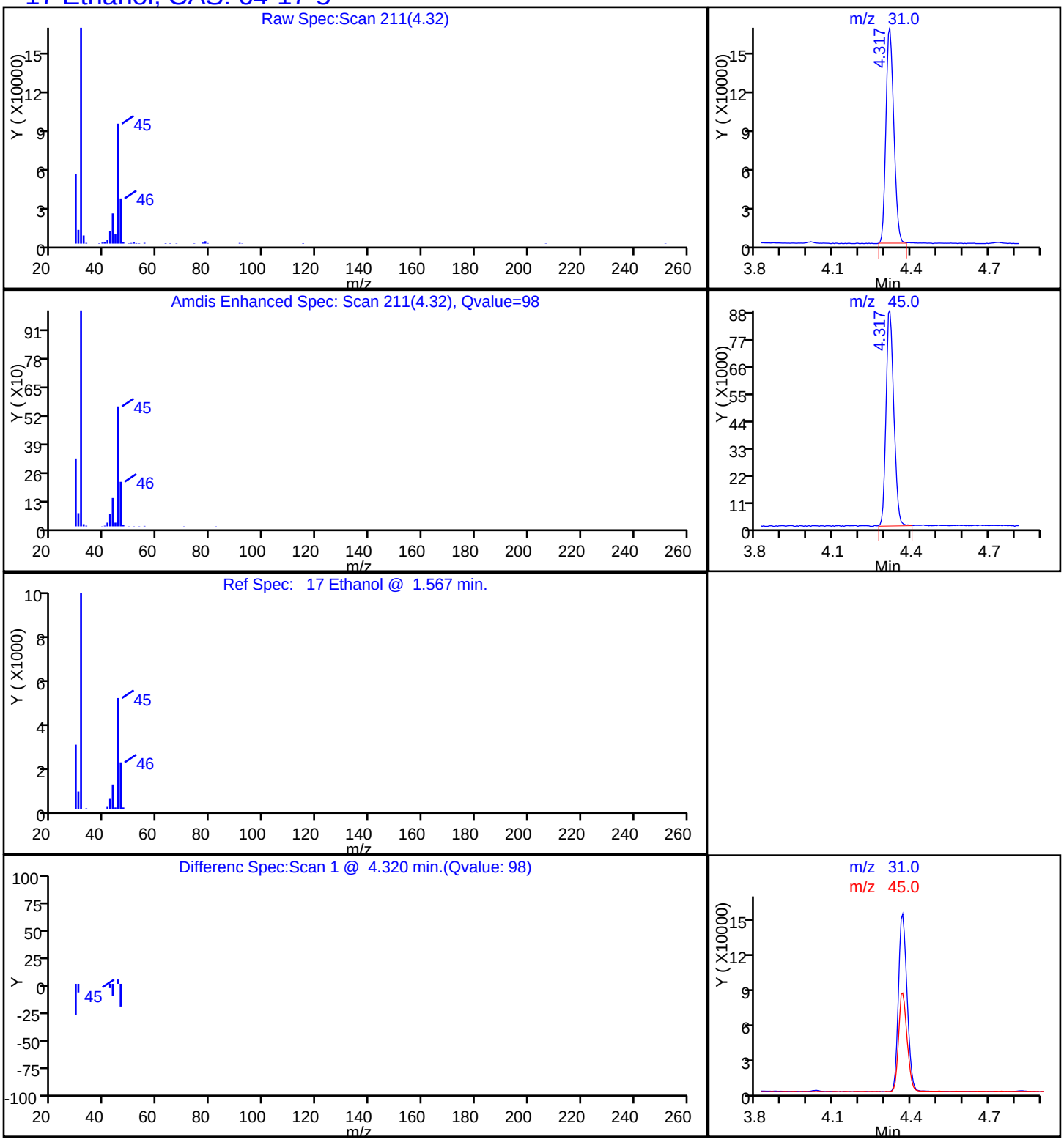
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



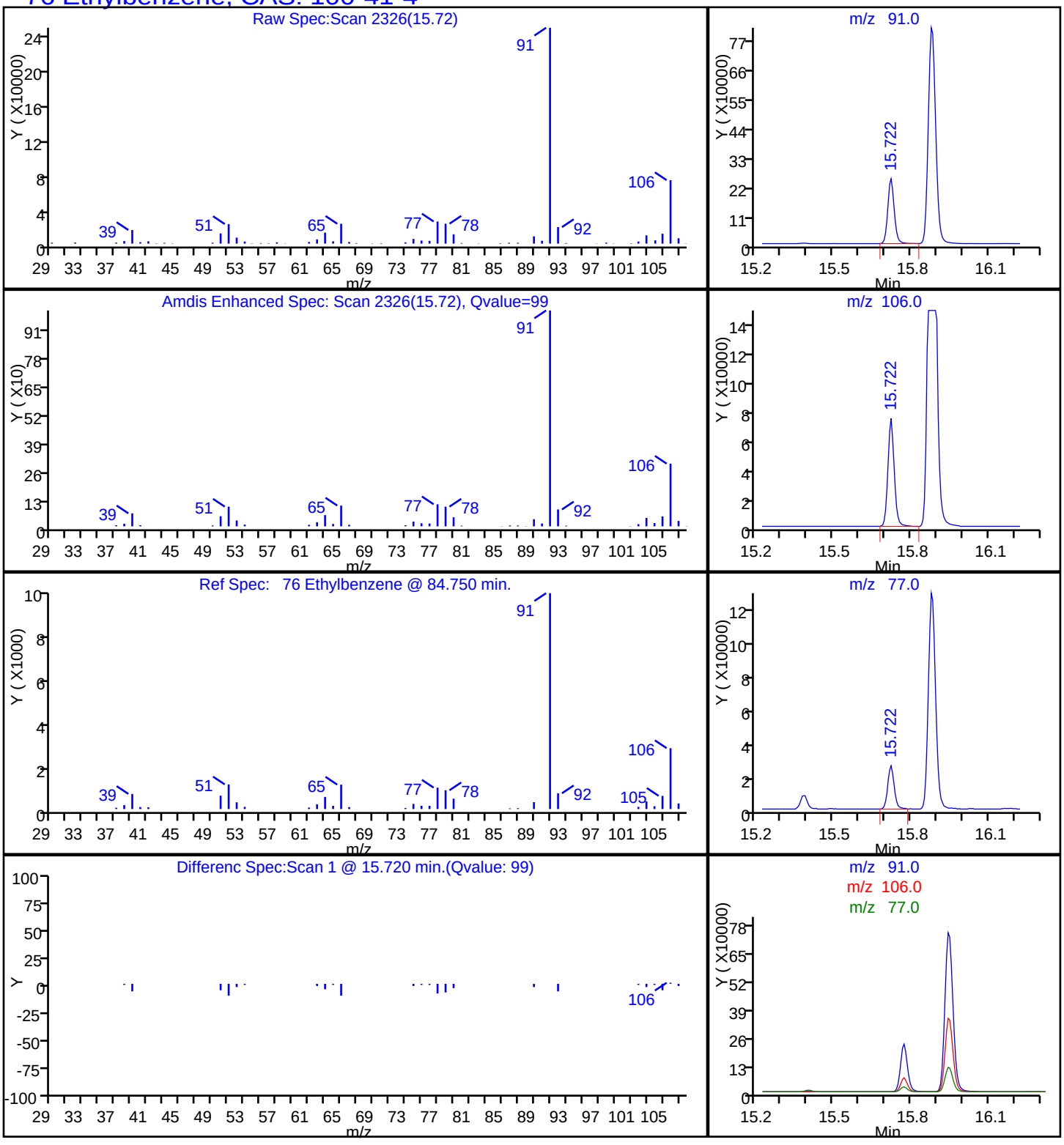
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



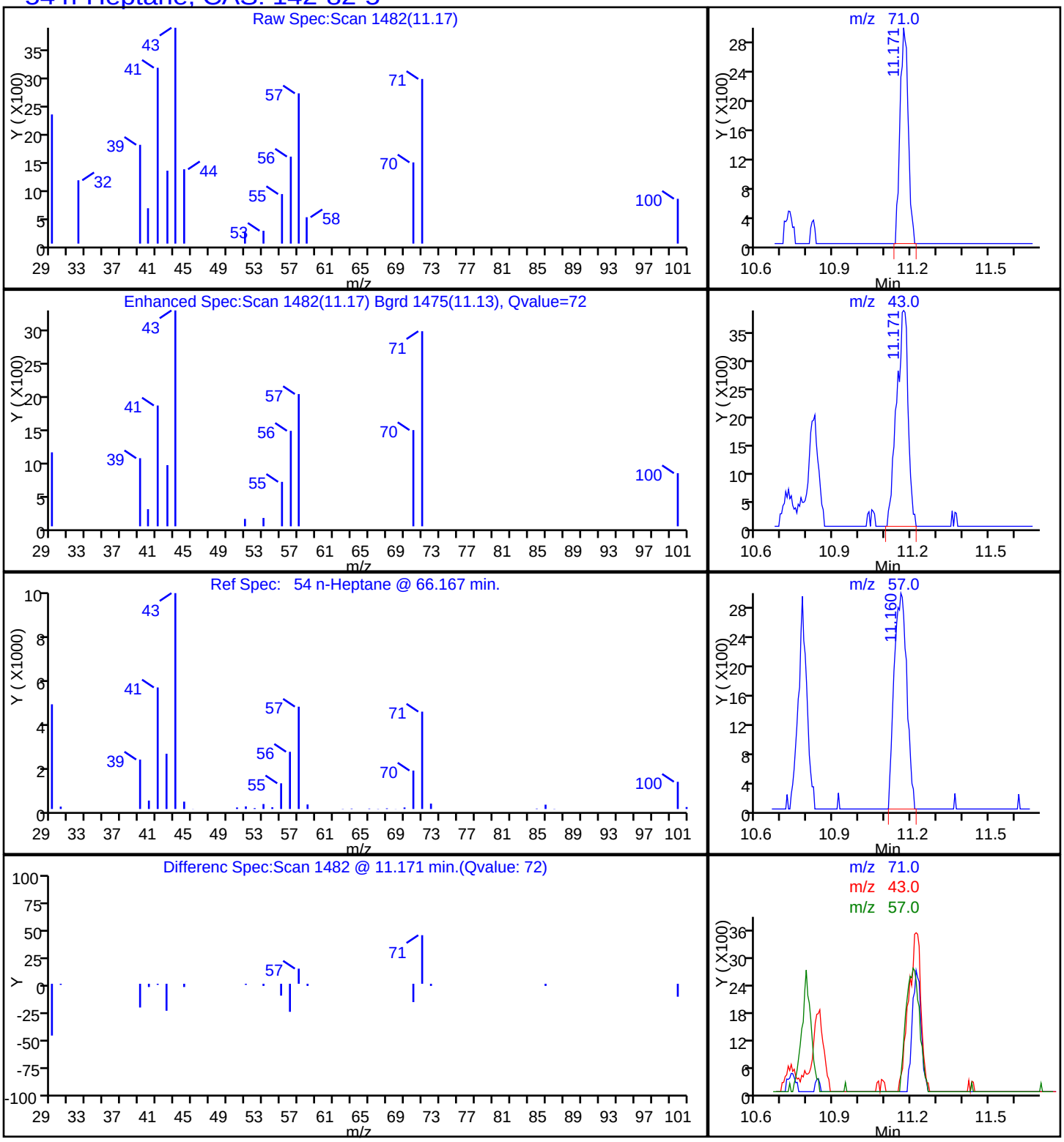
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



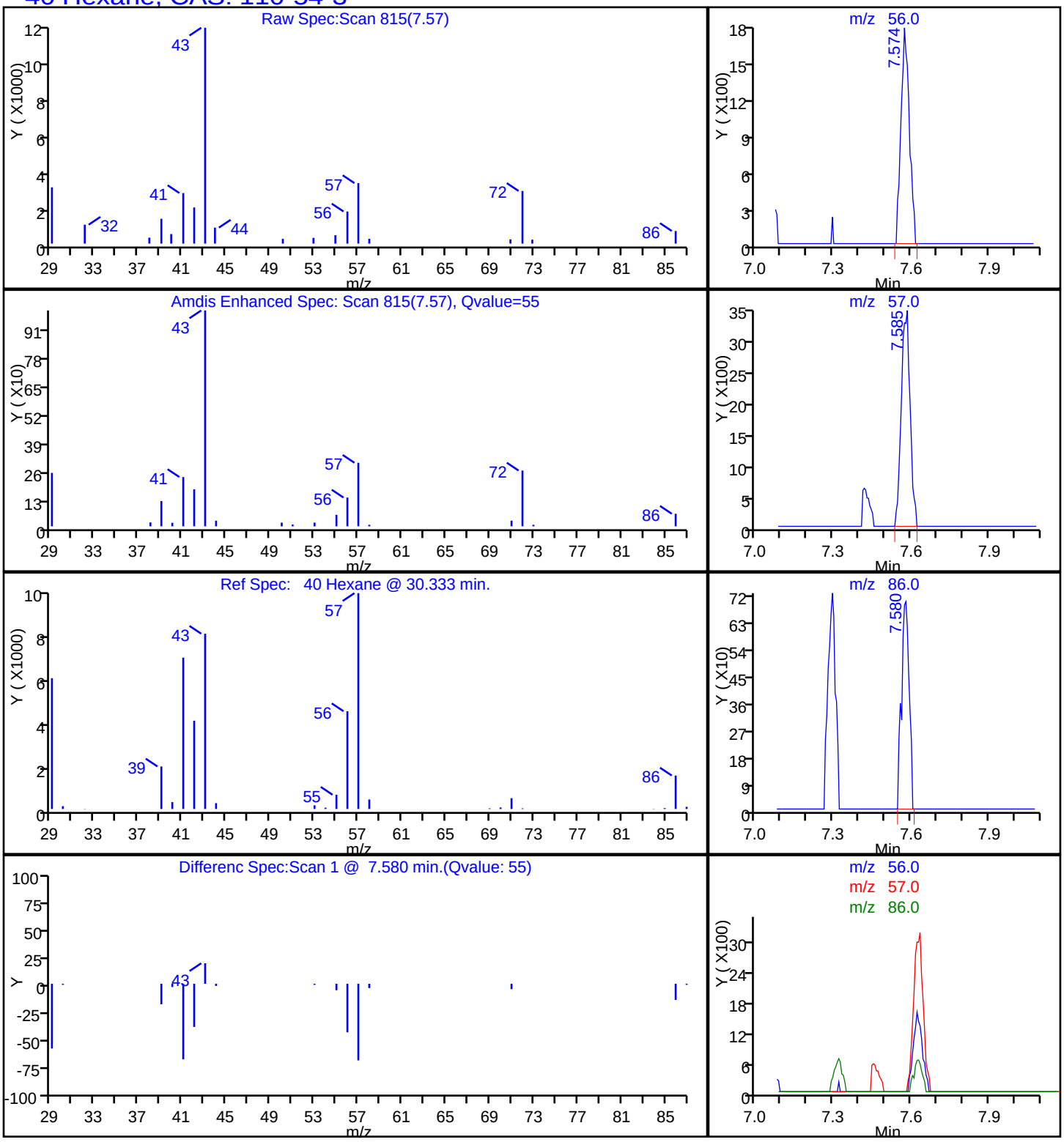
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



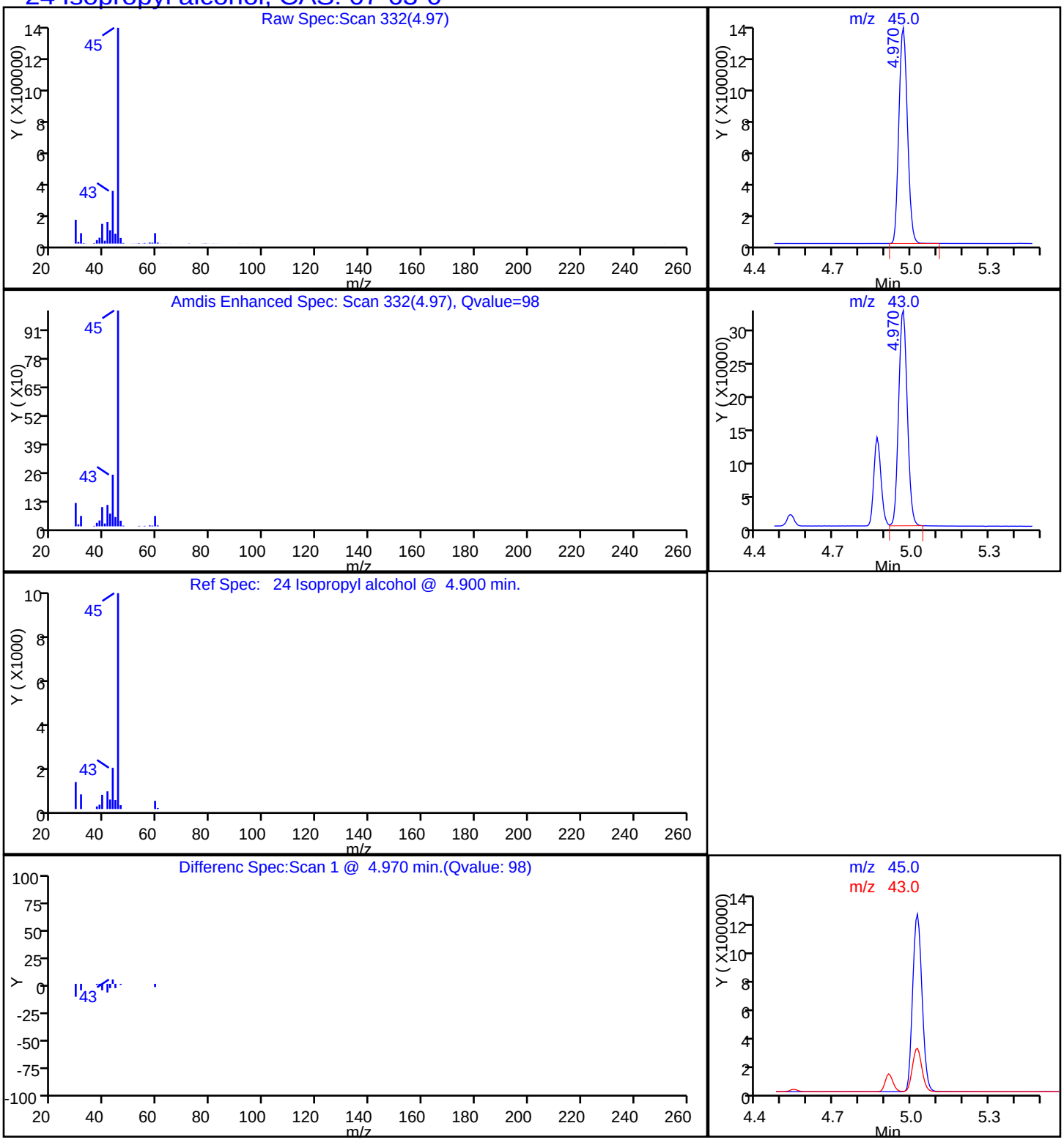
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



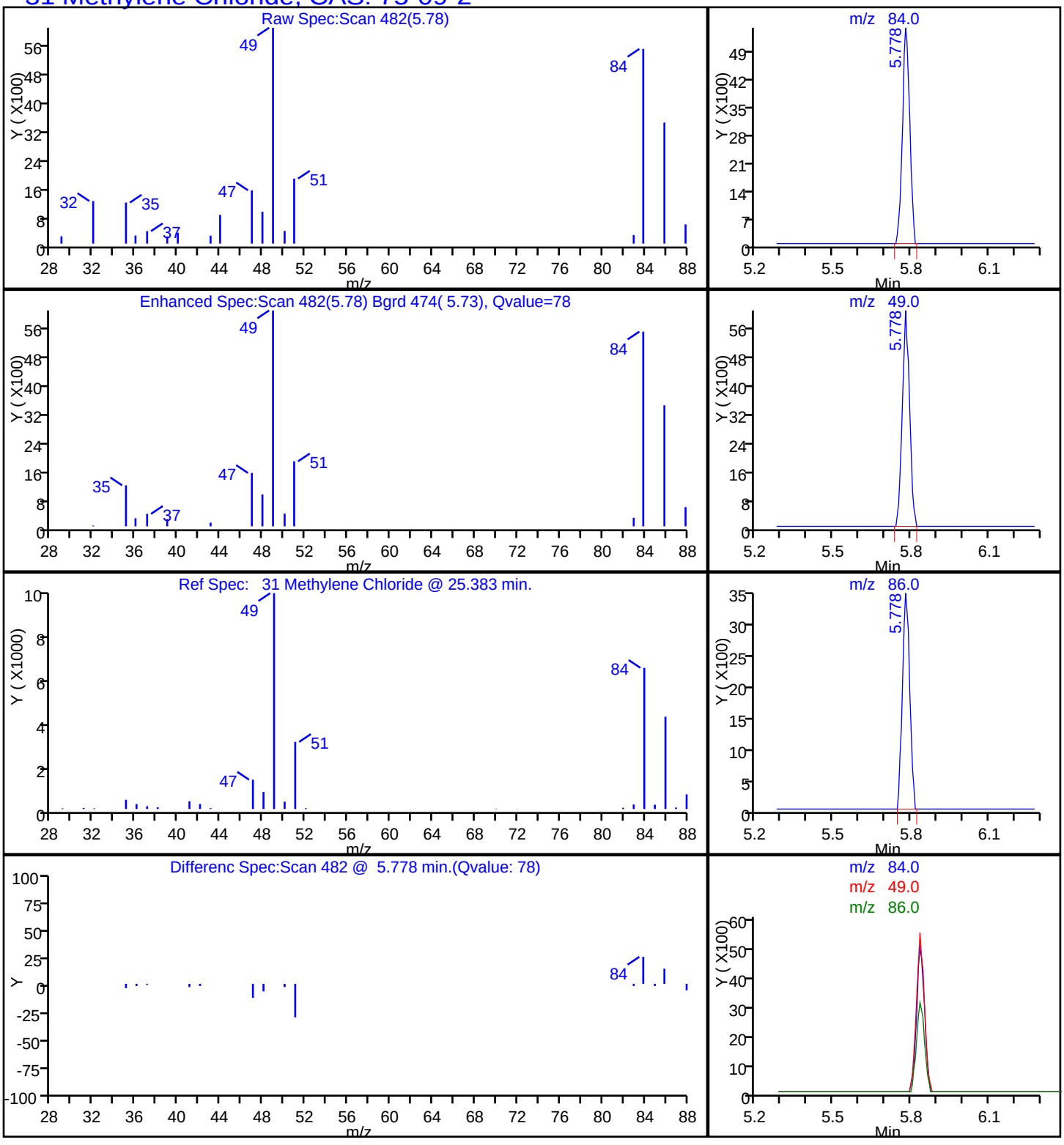
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



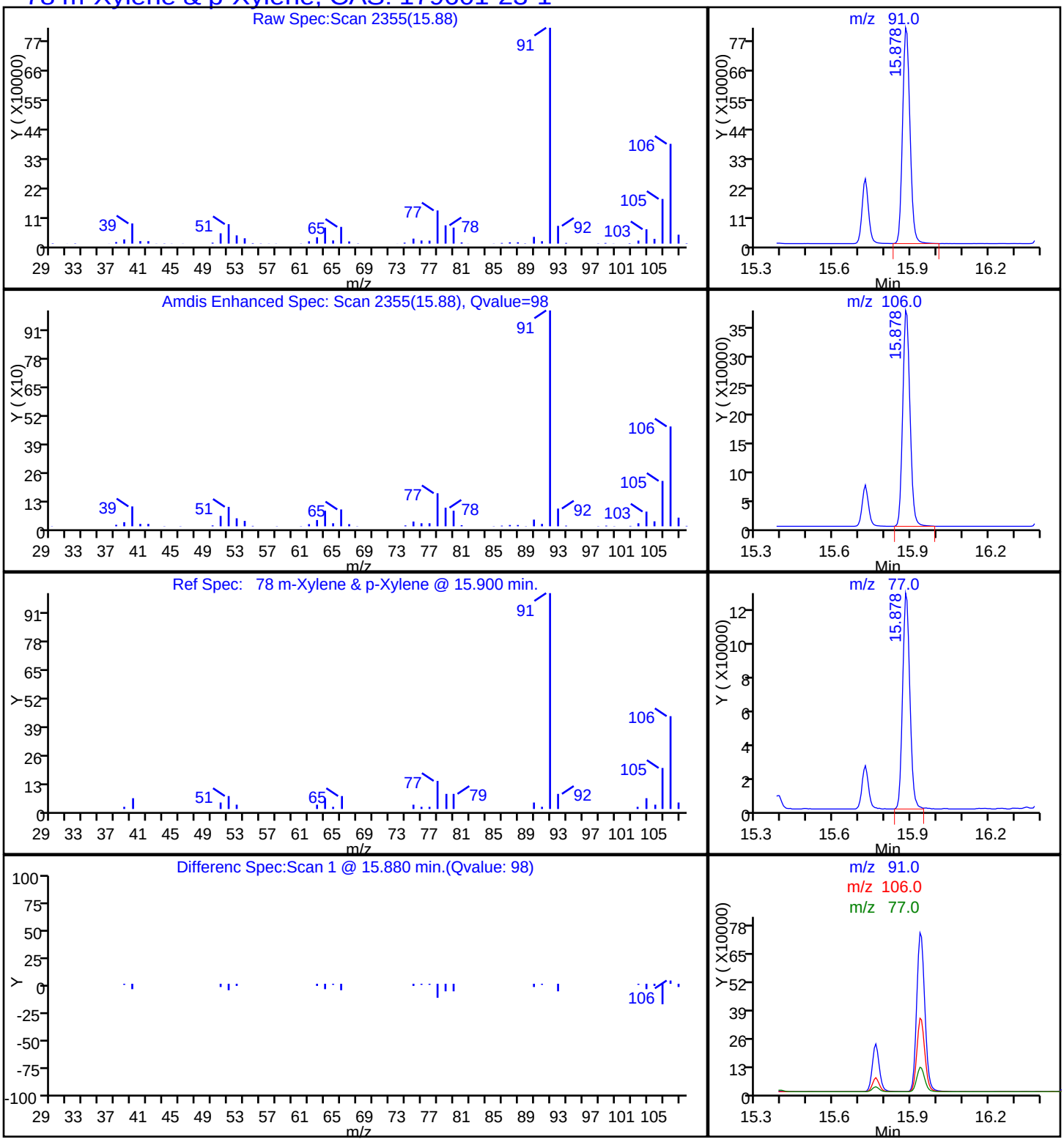
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

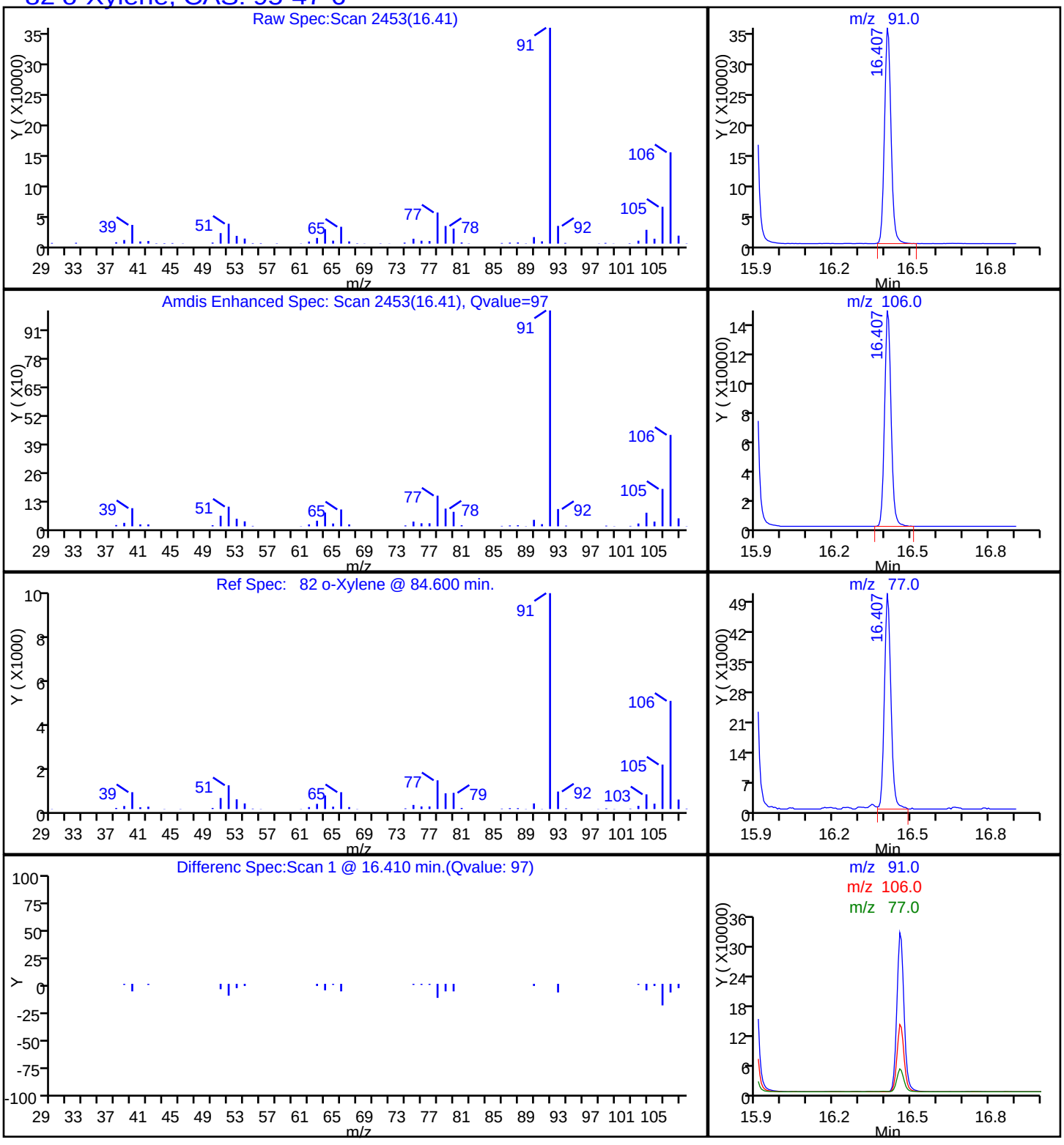
Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D
Injection Date: 13-Mar-2014 20:27:30 Instrument ID: ME
Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2
Client ID: PCV-IA2-B10
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date: 13-Mar-2014 20:27:30 Instrument ID: ME

Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2

Client ID: PCV-IA2-B10

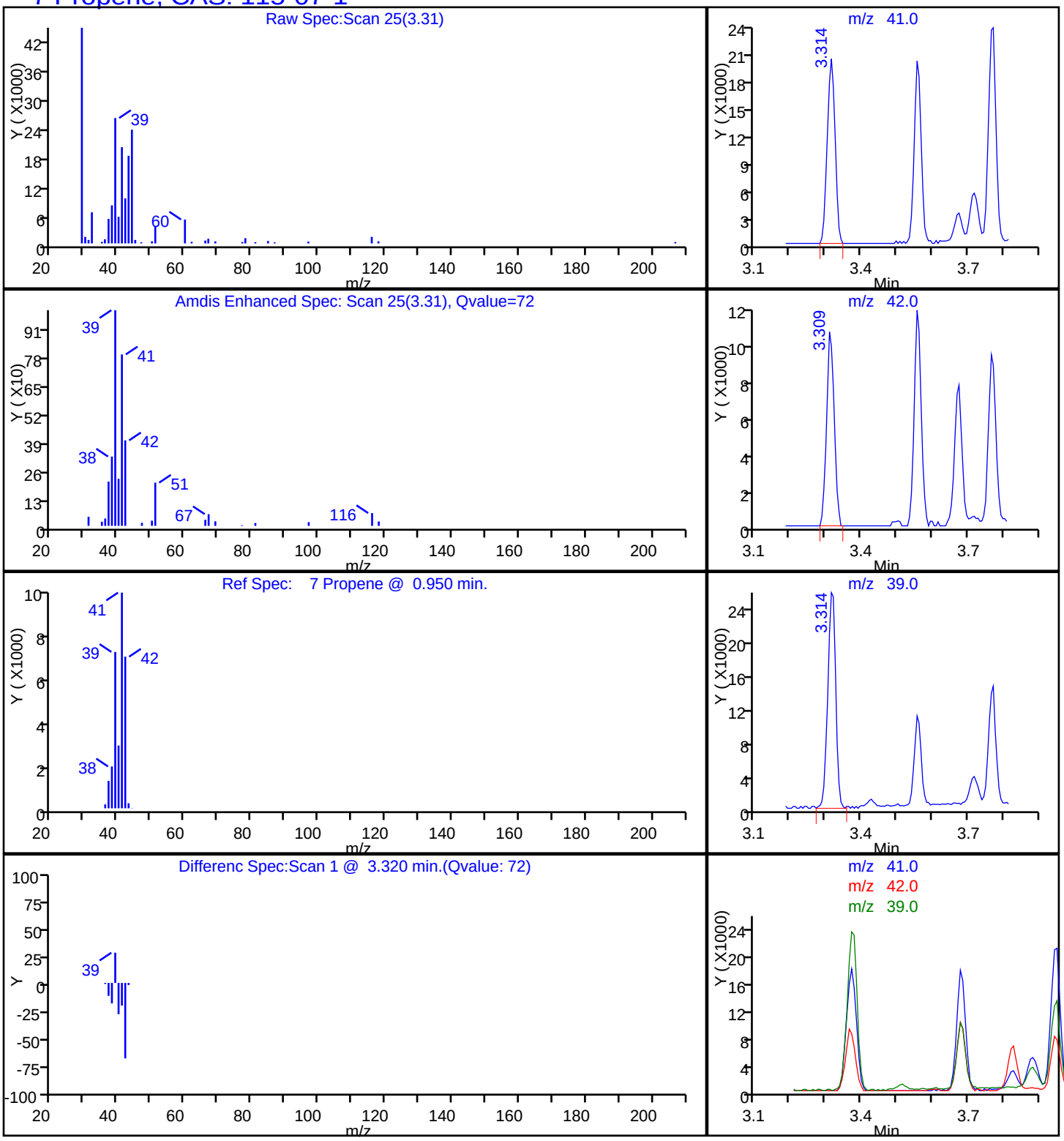
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



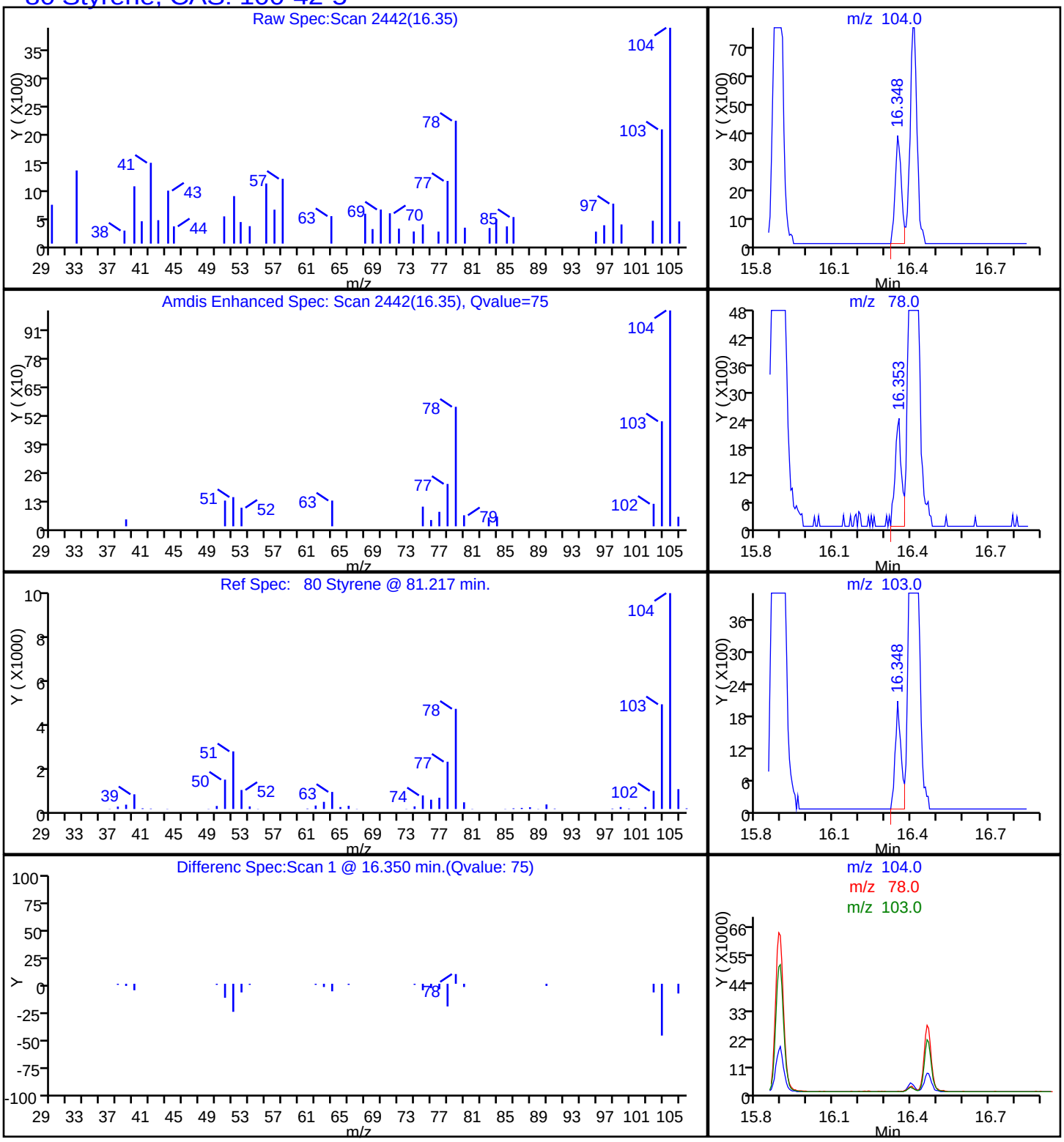
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



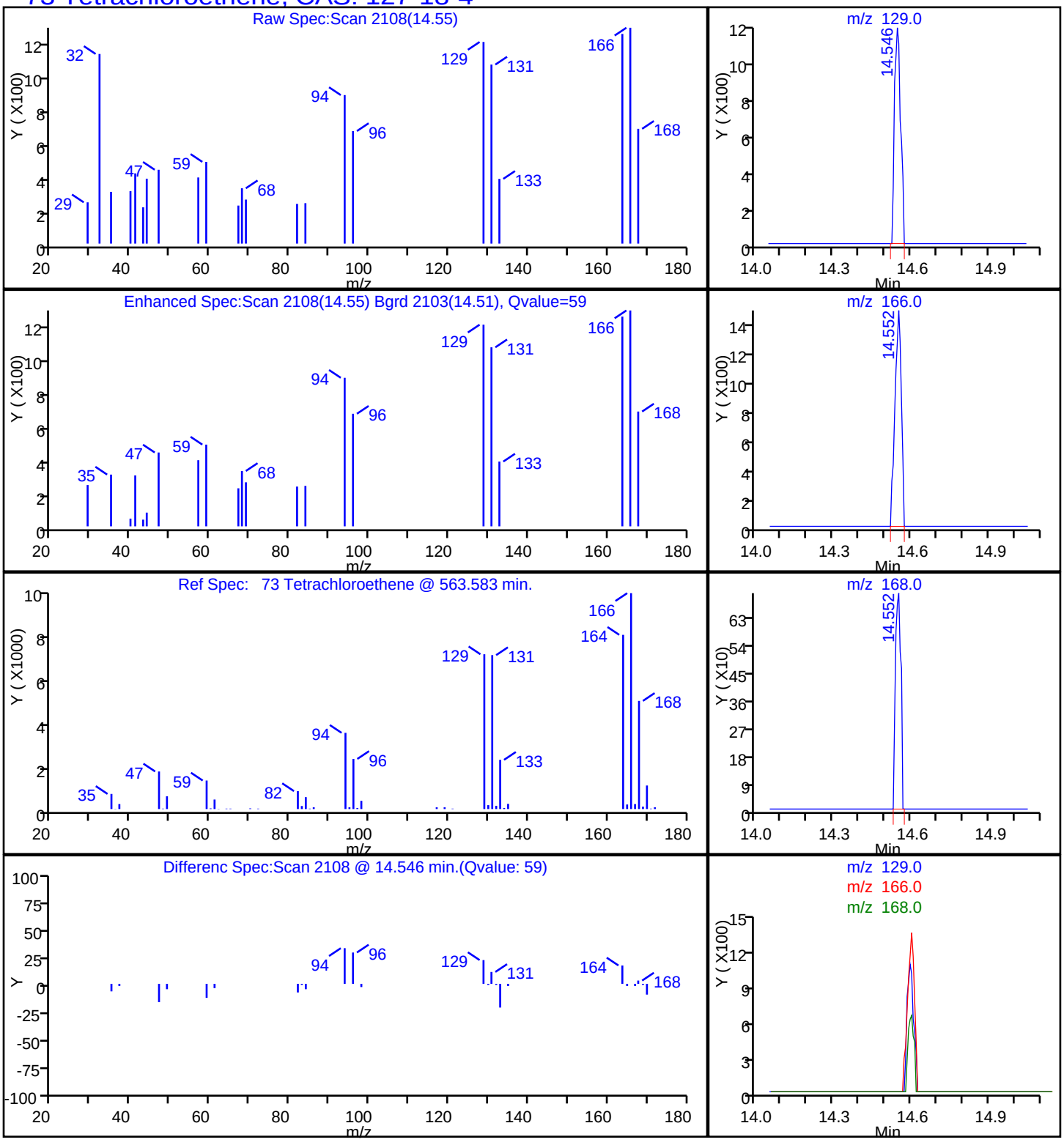
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2
Client ID:	PCV-IA2-B10		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



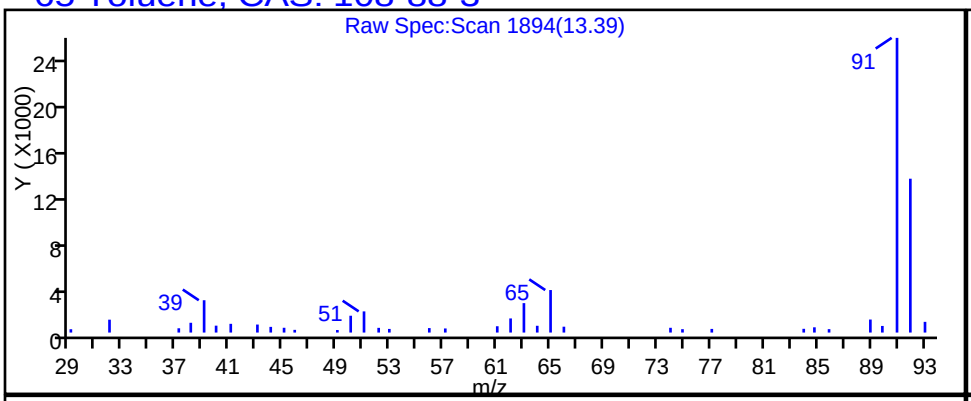
Report Date: 14-Mar-2014 07:22:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

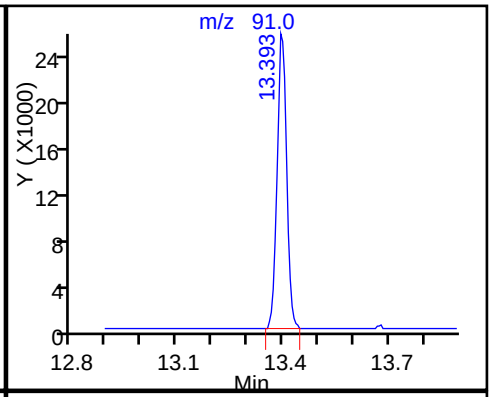
TestAmerica Knoxville

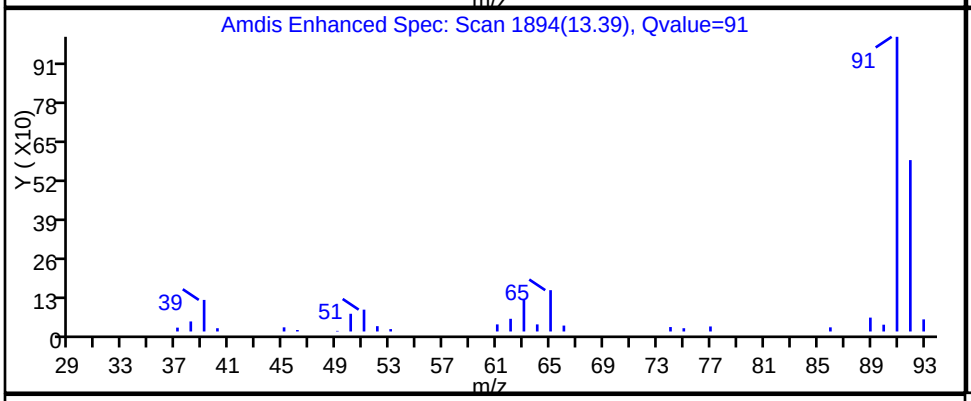
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

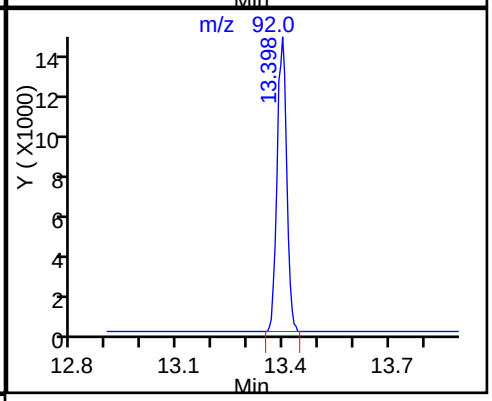
Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

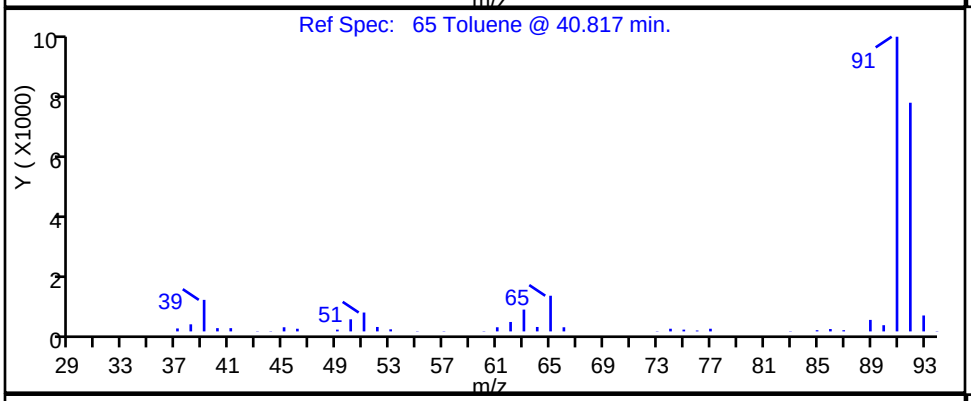
65 Toluene, CAS: 108-88-3

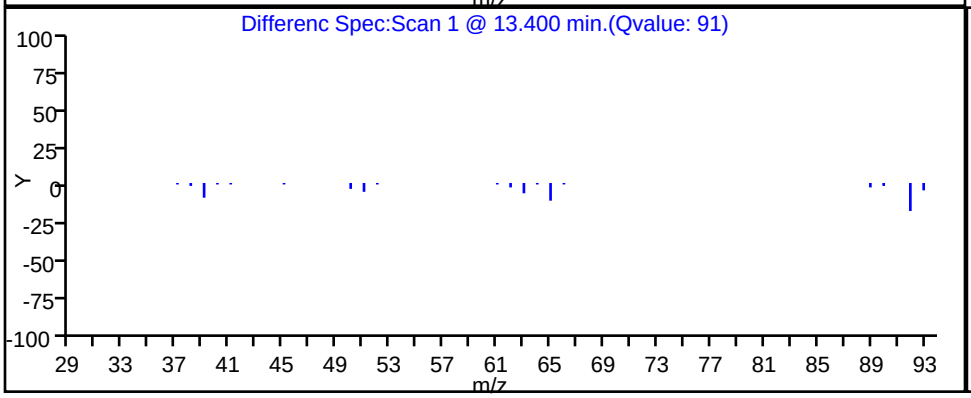


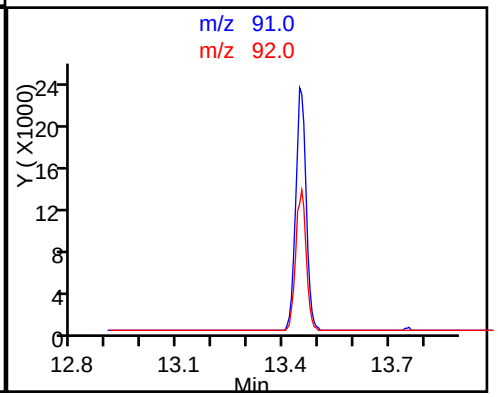












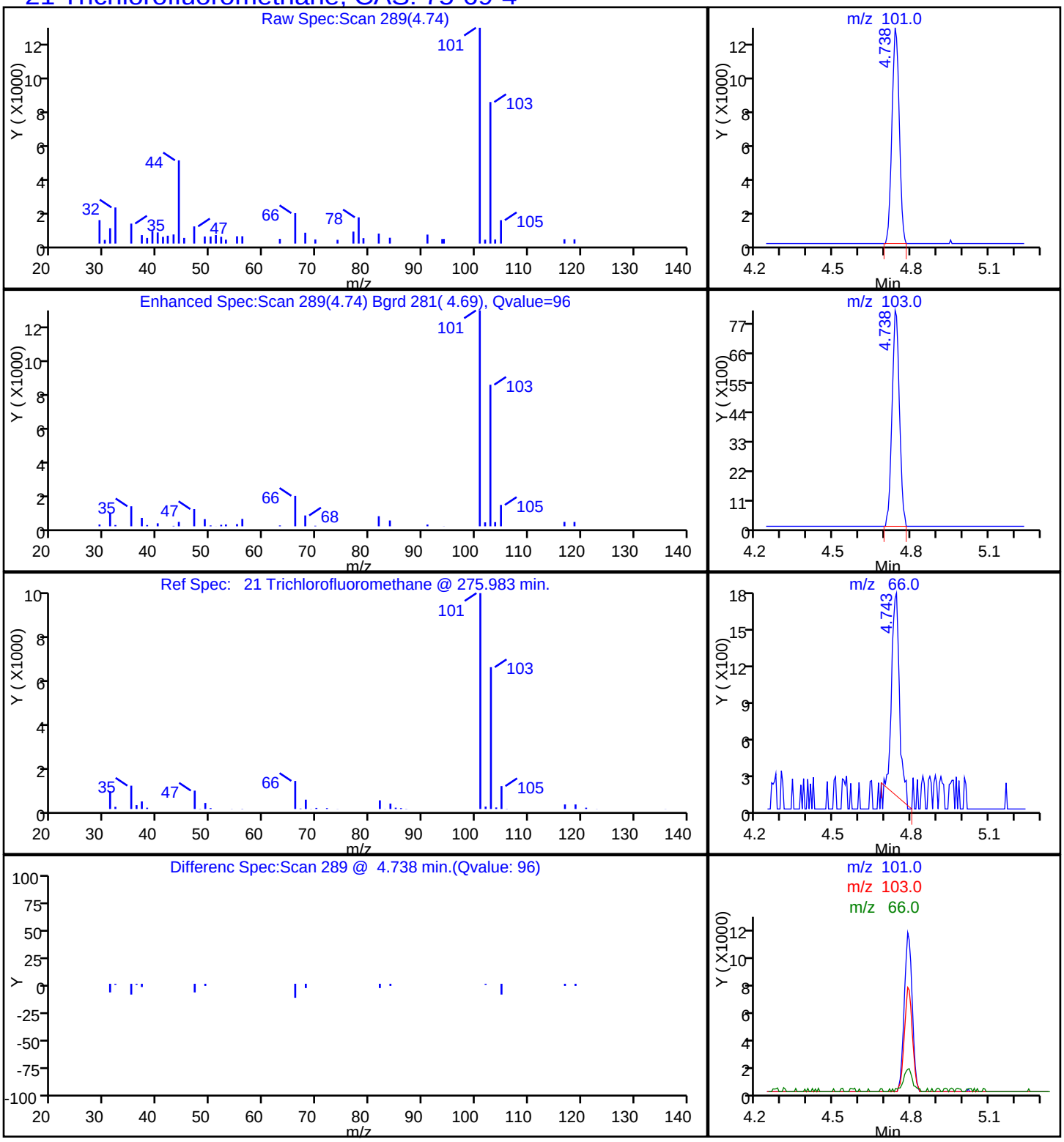
Report Date: 14-Mar-2014 07:22:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D

Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

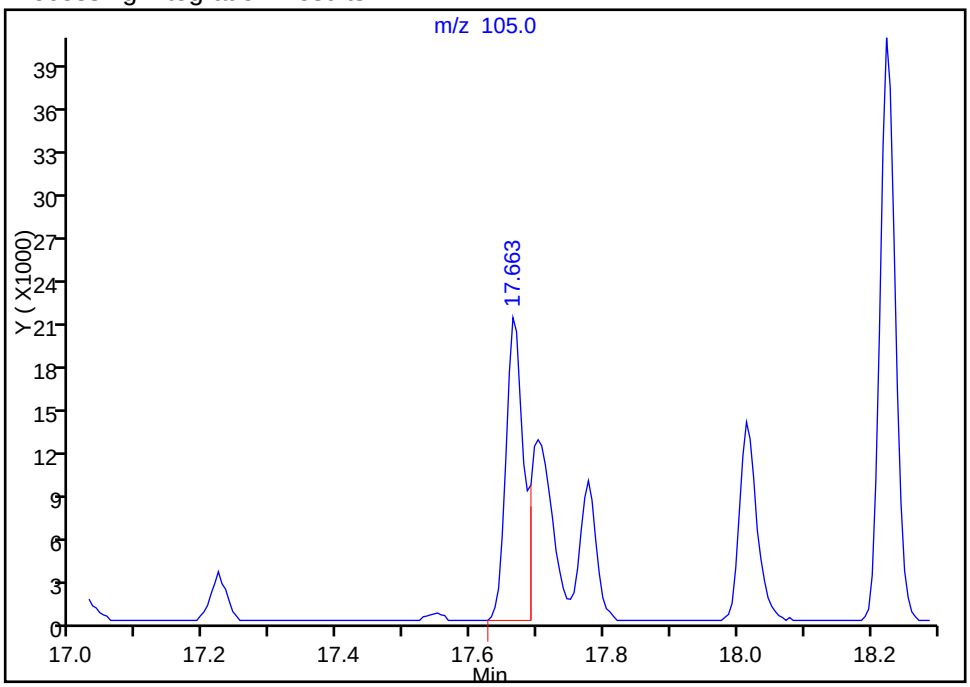
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108.D				
Injection Date:	13-Mar-2014 20:27:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

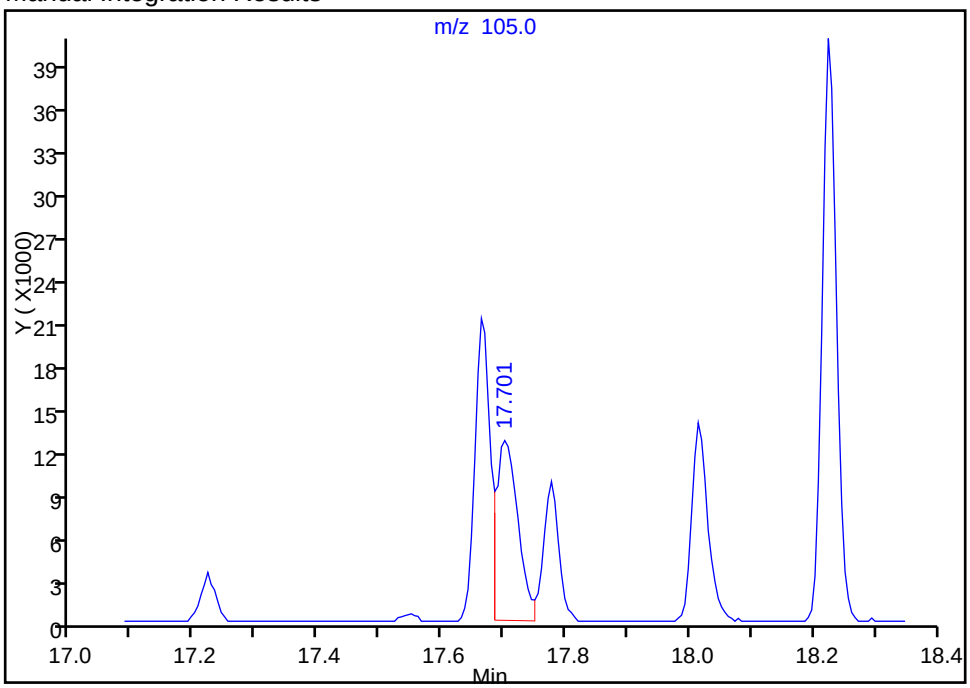
Processing Integration Results

RT: 17.66
Response: 39741
Amount: 0.100186



Manual Integration Results

RT: 17.70
Response: 30594
Amount: 0.077127



Reviewer: tajh, 14-Mar-2014 07:22:02
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 DL Lab Sample ID: 140-1037-2 DL

Matrix: Air Lab File ID: EC13P108DL.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 50(mL) Date Analyzed: 03/14/2014 07:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-63-0	Isopropyl alcohol	60.10	98		8.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B10 DL Lab Sample ID: 140-1037-2 DL

Matrix: Air Lab File ID: EC13P108DL.D

Analysis Method: TO-15 Date Collected: 03/10/2014 14:00

Sample wt/vol: 50(mL) Date Analyzed: 03/14/2014 07:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-63-0	Isopropyl alcohol	60.10	240		20	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108DL.D
Lims ID: 140-1037-A-2 Lab Sample ID: 140-1037-2
Client ID: PCV-IA2-B10
Sample Type: Client
Inject. Date: 14-Mar-2014 07:46:30 ALS Bottle#: 8 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-2
Misc. Info.: E031314,TO155,,140-0000518-028
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 06:22:42 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 08:28:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	194166	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	953061	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	876718	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	715848	3.73	
7 Propene	41	3.314	3.309	0.005	71	8119	0.1662	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	91	11977	0.0558	
9 Chloromethane	52	3.535	3.530	0.005	86	1568	0.0915	
17 Ethanol	31	4.312	4.312	0.0	98	81311	4.19	
19 2-Methylbutane	43	4.533	4.538	-0.005	83	9776	0.1438	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	81	6112	0.0284	
23 Acetone	58	4.878	4.878	0.0	92	20289	0.6899	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	98	738590	9.75	
31 Methylene Chloride	84	5.784	5.789	-0.005	73	6956	0.1254	
76 Ethylbenzene	91	15.722	15.722	0.0	98	55967	0.1859	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	246938	1.04	
82 o-Xylene	91	16.407	16.412	-0.005	96	86806	0.3392	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	68	8550	0.0318	
96 Benzyl chloride	91	18.726	18.580	0.146	12	12393	0.0560	

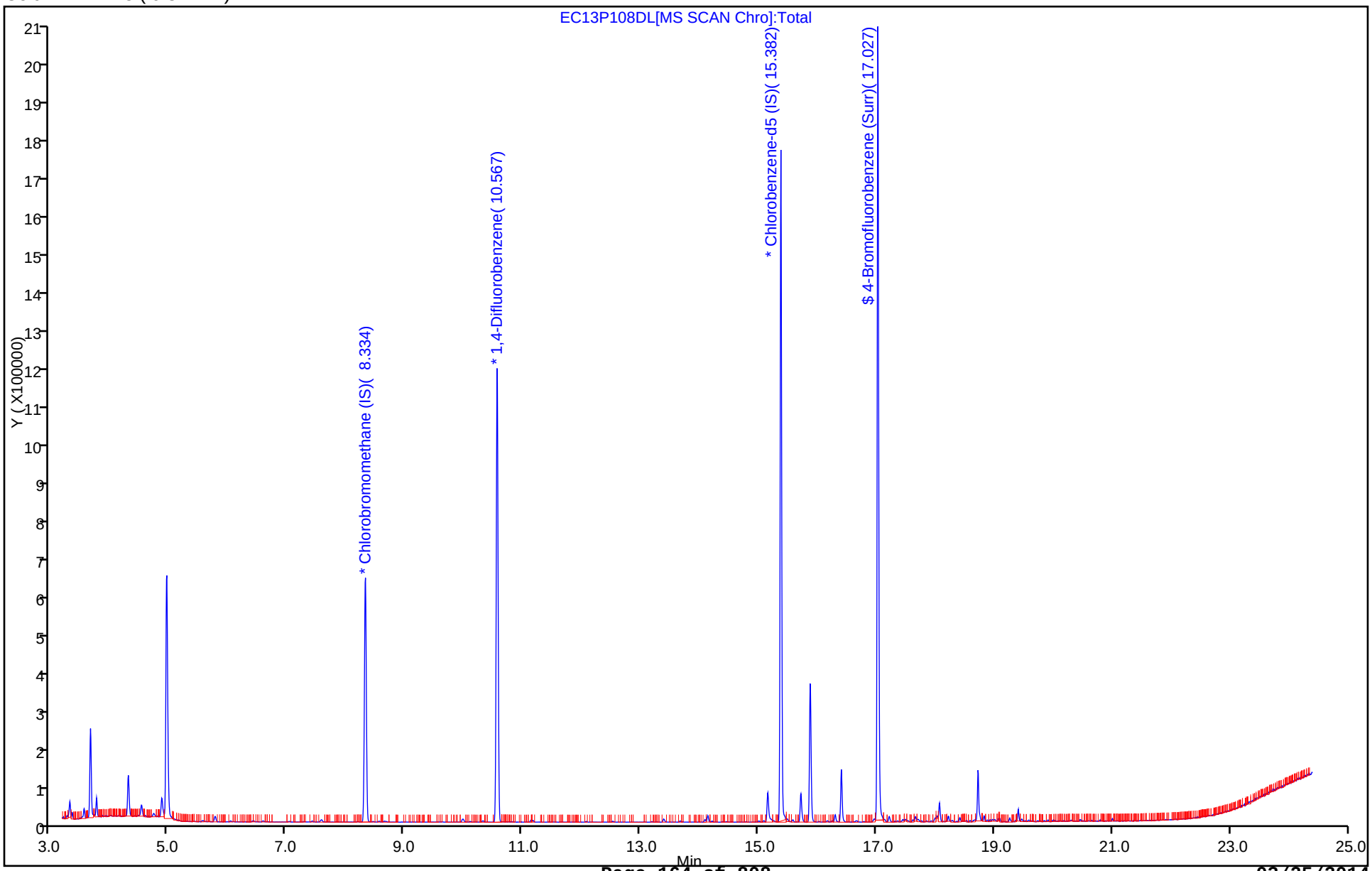
Report Date: 14-Mar-2014 08:28:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108DL.D

Injection Date:	14-Mar-2014 07:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2	Worklist Smp#:	28
Client ID:	PCV-IA2-B10				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



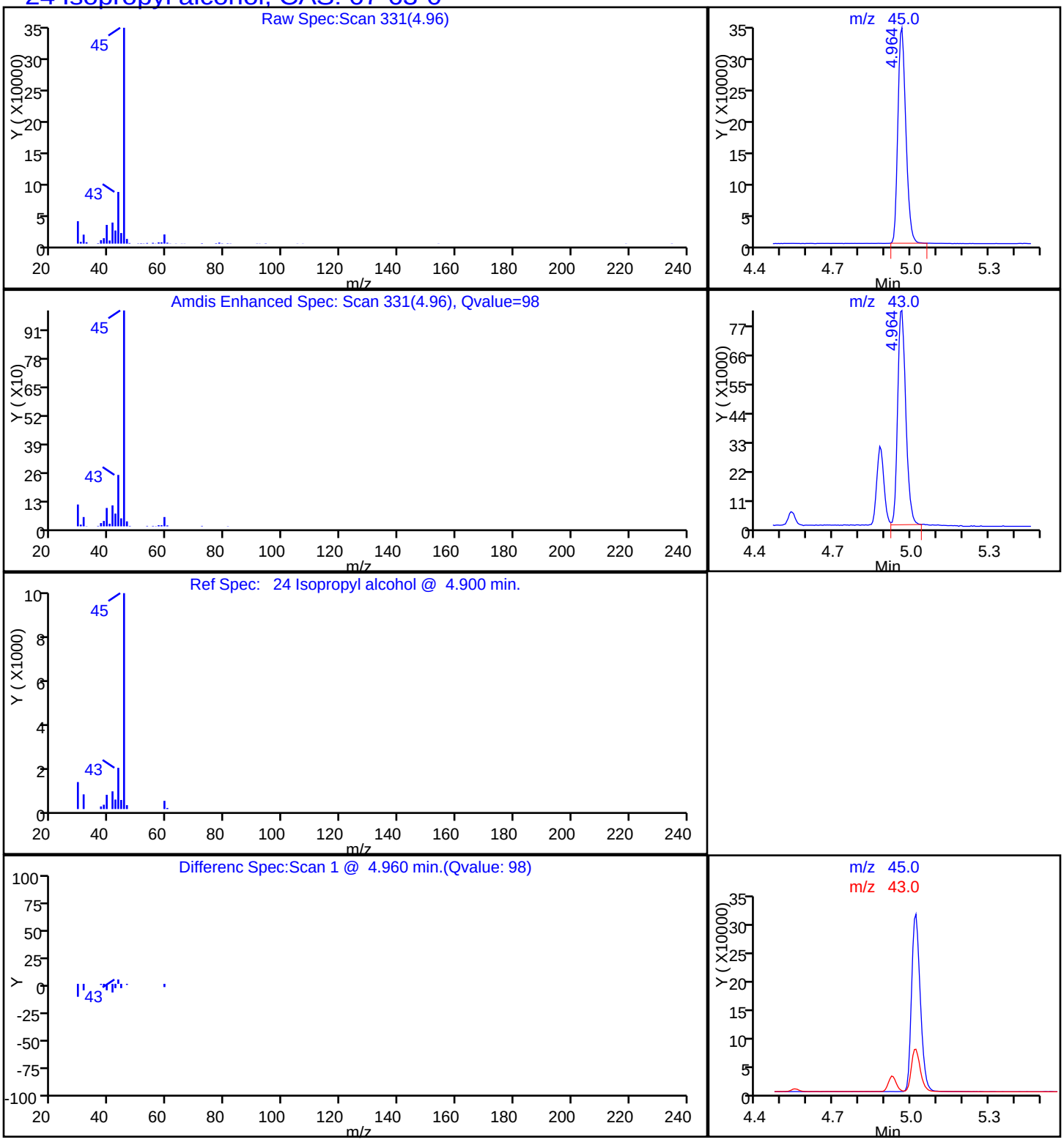
Report Date: 14-Mar-2014 08:28:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P108DL.D

Injection Date:	14-Mar-2014 07:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-2	Lab Sample ID:	140-1037-2		
Client ID:	PCV-IA2-B10				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.21		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.072	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.41	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.6		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.21		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.26	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.13	J	0.50	0.045
67-64-1	Acetone	58.08	3.9	J	5.0	1.4
71-43-2	Benzene	78.11	0.49		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.091	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.30		0.20	0.038
74-87-3	Chloromethane	50.49	0.67		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.14	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.51		0.20	0.068
64-17-5	Ethanol	46.07	35		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.56		0.20	0.068
142-82-5	Heptane	100.21	0.22	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.26	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	36		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.5		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.20	0.12
91-20-3	Naphthalene	128.17	0.091	J	0.50	0.090
95-47-6	o-Xylene	106.17	0.87		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	0.070	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.041	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	2.0		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.31		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	5.1		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	1.0		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.34	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	7.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.74		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.3	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.53	J	2.0	0.18
67-64-1	Acetone	58.08	9.3	J	12	3.3
71-43-2	Benzene	78.11	1.6		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.57	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.5		0.98	0.19
74-87-3	Chloromethane	50.49	1.4		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.48	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	66		3.8	3.8
100-41-4	Ethylbenzene	106.17	2.5		0.87	0.30
142-82-5	Heptane	100.21	0.91	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.93	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	88		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	5.2		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	10		0.87	0.52
91-20-3	Naphthalene	128.17	0.48	J	2.6	0.47
95-47-6	o-Xylene	106.17	3.8		0.87	0.26
115-07-1	Propene	42.08	2.4	cn	0.86	0.13
100-42-5	Styrene	104.15	0.30	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.28	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	7.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B10 Lab Sample ID: 140-1037-3

Matrix: Air Lab File ID: EC13P109.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D
Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3
Client ID: PCV-IA3-B10
Sample Type: Client
Inject. Date: 13-Mar-2014 21:14:30 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-3
Misc. Info.: E031314,TO155,,140-0000518-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:23:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:23:40

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	213703	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1007310	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	937091	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	840401	4.10	
	7 Propene	41	3.314	3.309	0.005	83	29959	0.5573	
	8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	47823	0.2023	
	9 Chloromethane	52	3.530	3.530	0.0	99	5027	0.2664	
	17 Ethanol	31	4.323	4.312	0.011	98	298540	14.0	
	19 2-Methylbutane	43	4.533	4.538	-0.005	88	78835	1.05	
	21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	28941	0.1221	
	23 Acetone	58	4.873	4.878	-0.005	99	50513	1.56	
	24 Isopropyl alcohol	45	4.970	4.970	0.0	98	1193435	14.3	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	64	4010	0.0273	
	31 Methylene Chloride	84	5.789	5.789	0.0	83	36626	0.5998	
	35 2-Methylpentane	43	6.598	6.603	-0.005	77	11862	0.0843	
	39 2-Butanone (MEK)	72	7.585	7.585	0.0	87	5679	0.1623	
	40 Hexane	56	7.585	7.585	0.0	67	5975	0.1051	
	43 Chloroform	83	8.351	8.351	0.0	68	22254	0.1215	
	49 Cyclohexane	69	9.985	9.990	-0.005	45	2102	0.0553	
	48 Benzene	78	9.990	9.995	-0.005	96	39617	0.1954	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	74	7117	0.0365	
	53 Isooctane	57	10.777	10.788	-0.011	62	9058	0.0289	
	54 n-Heptane	71	11.171	11.182	-0.011	71	6851	0.0893	
	62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	81	6214	0.0521	
	65 Toluene	91	13.398	13.403	-0.005	93	197030	0.7848	
	73 Tetrachloroethene	129	14.552	14.552	0.0	70	1741	0.0163	
	76 Ethylbenzene	91	15.722	15.722	0.0	99	72669	0.2258	
	78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	242378	0.9578	
	80 Styrene	104	16.348	16.353	-0.005	54	4890	0.0279	
	82 o-Xylene	91	16.407	16.412	-0.005	96	95504	0.3491	
	88 4-Ethyltoluene	105	17.701	17.701	0.0	95	35306	0.1020	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
89 1,3,5-Trimethylbenzene	120	17.777	17.776	0.001	87	12877	0.0821	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	97	119306	0.4149	
112 Naphthalene	128	20.796	20.796	0.0	88	7614	0.0366	

QC Flag Legend

Review Flags
M - Manually Integrated

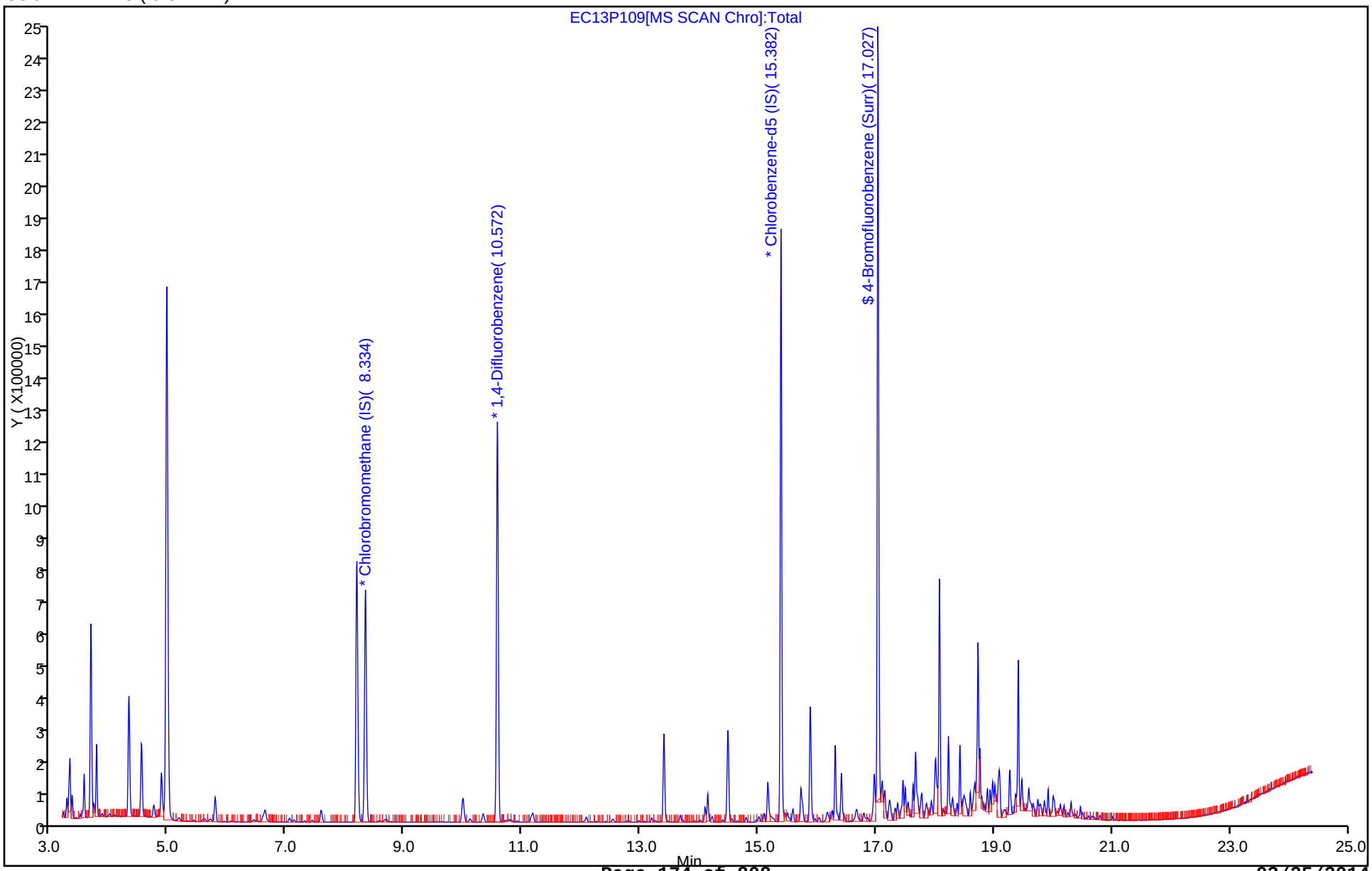
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3	Worklist Smp#:	14
Client ID:	PCV-IA3-B10				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



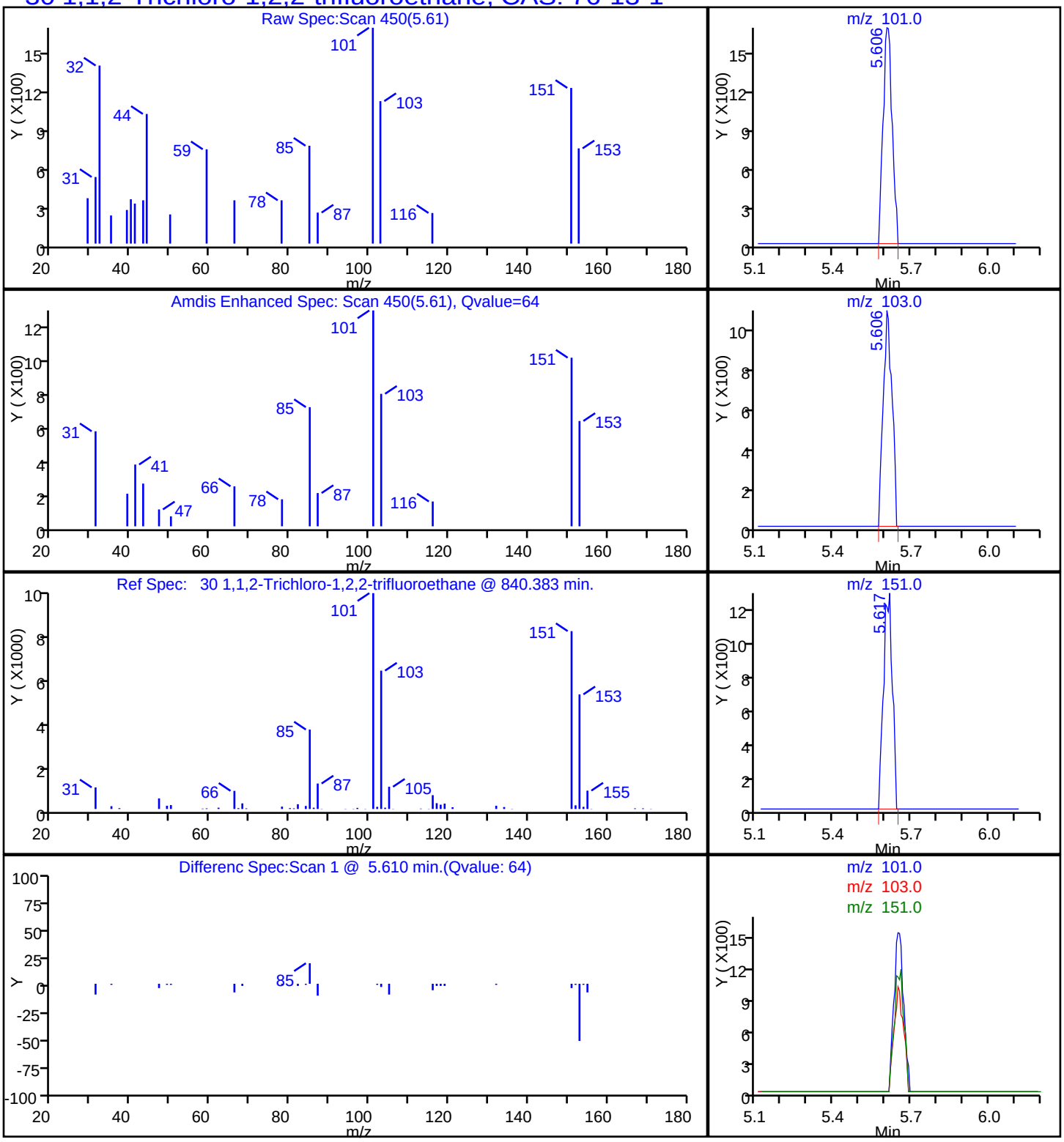
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



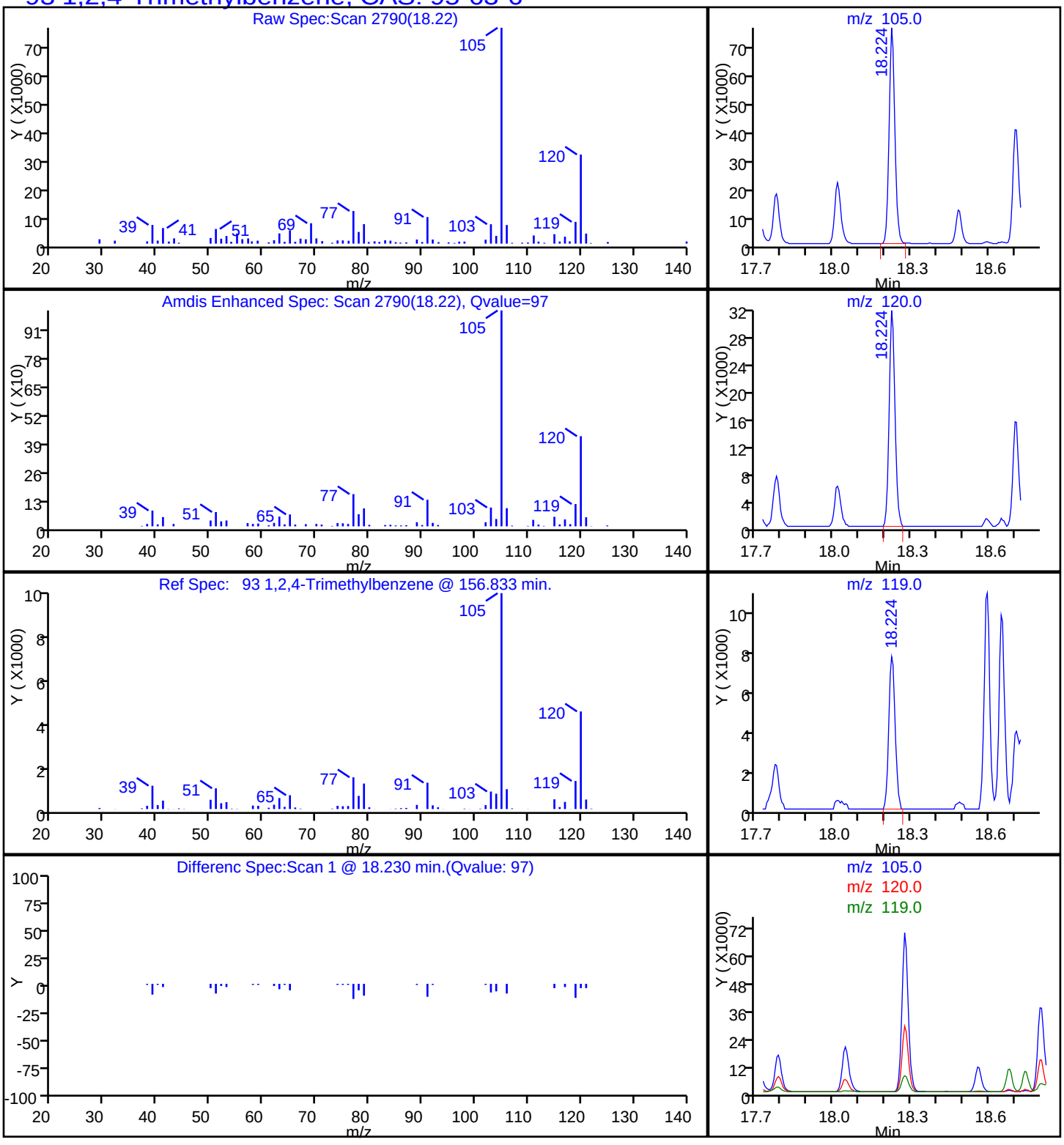
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



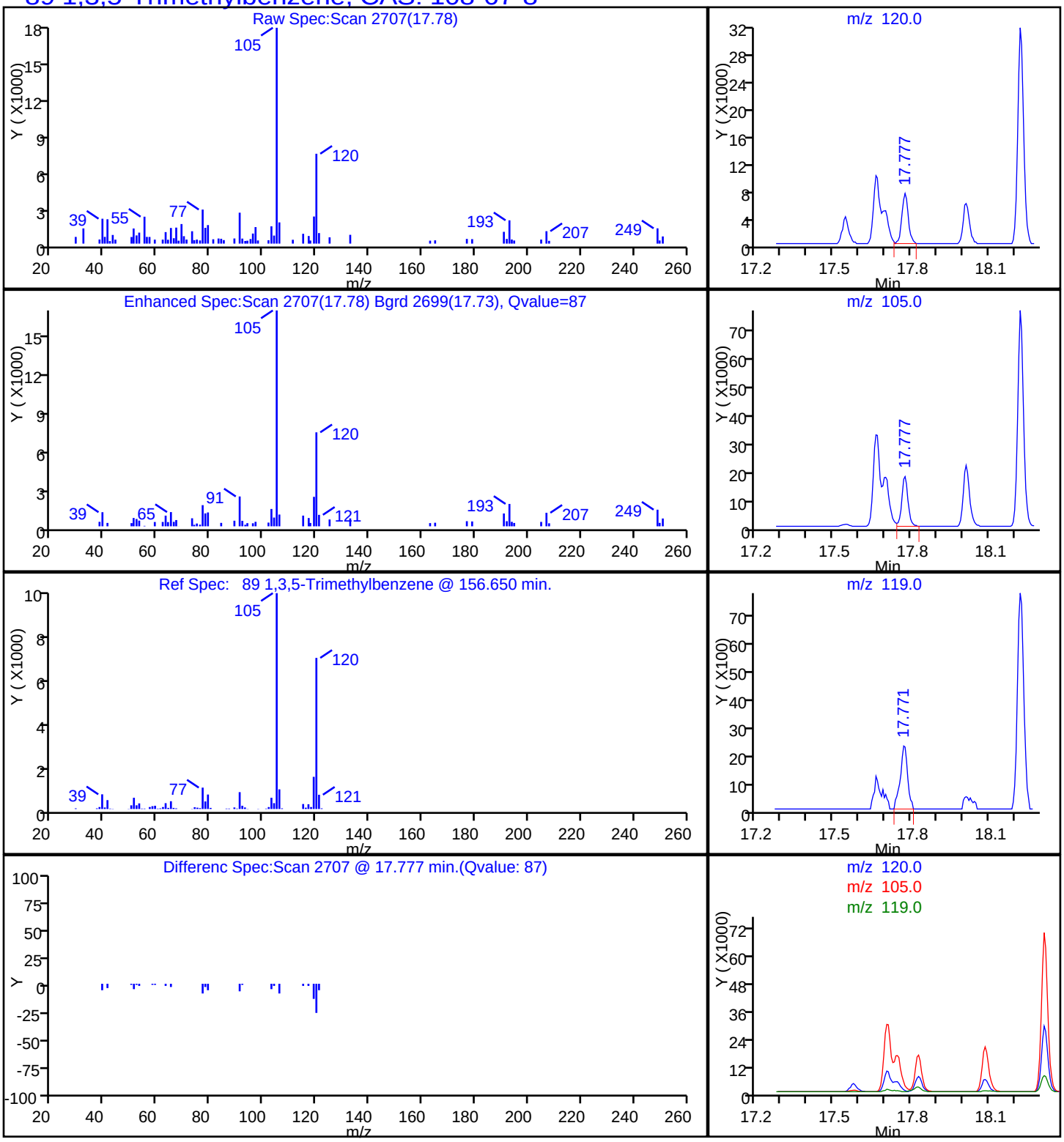
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



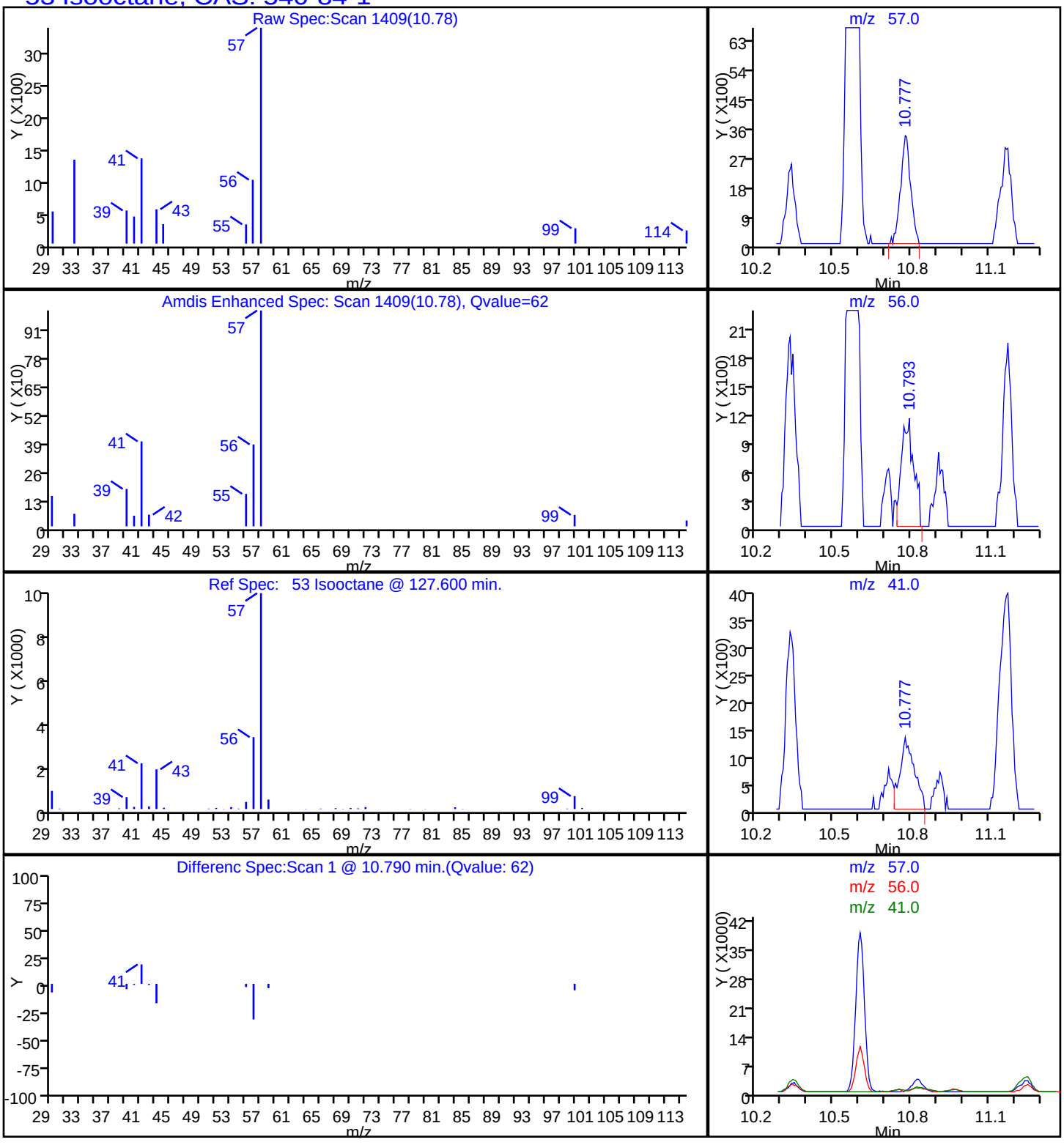
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



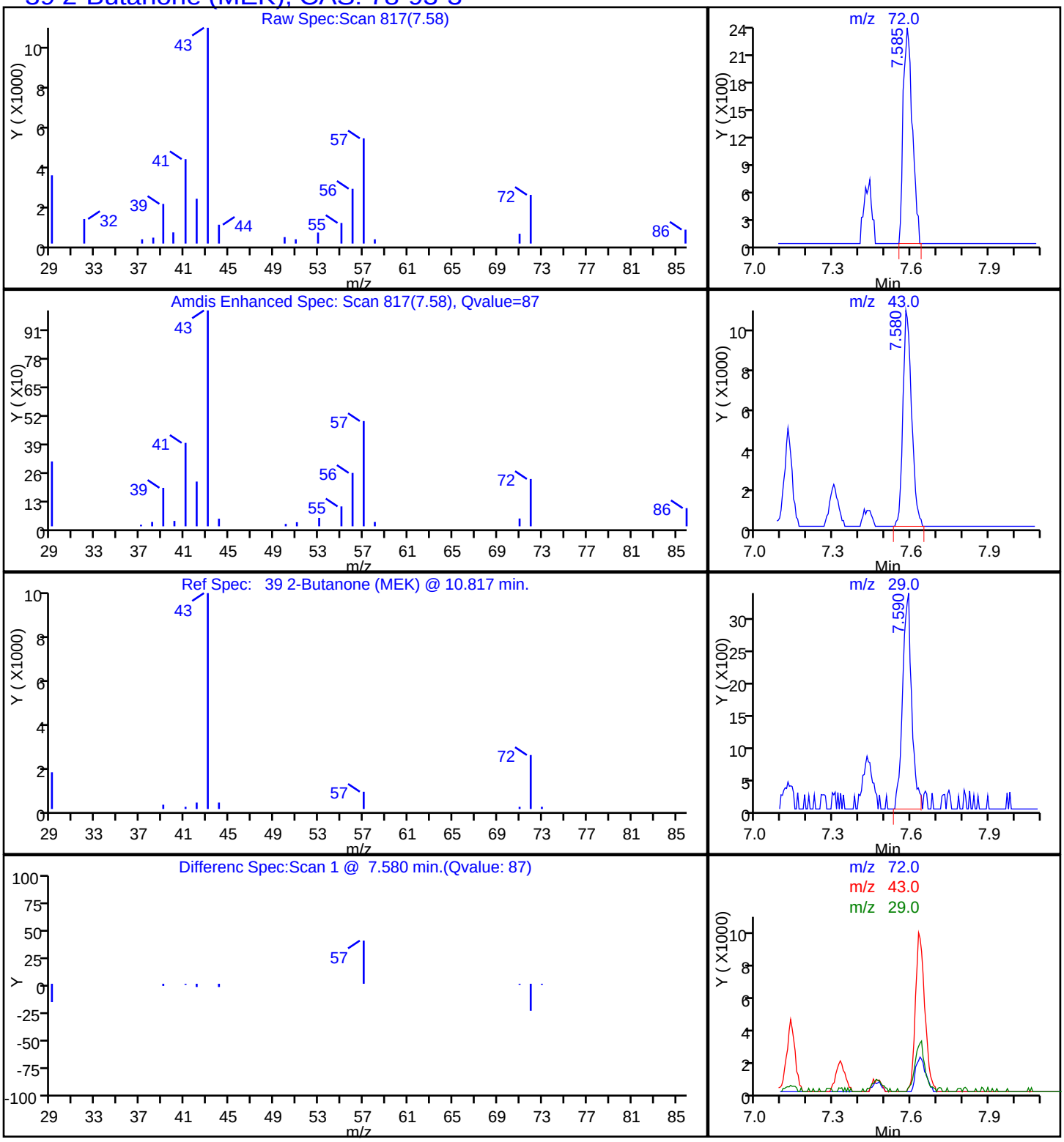
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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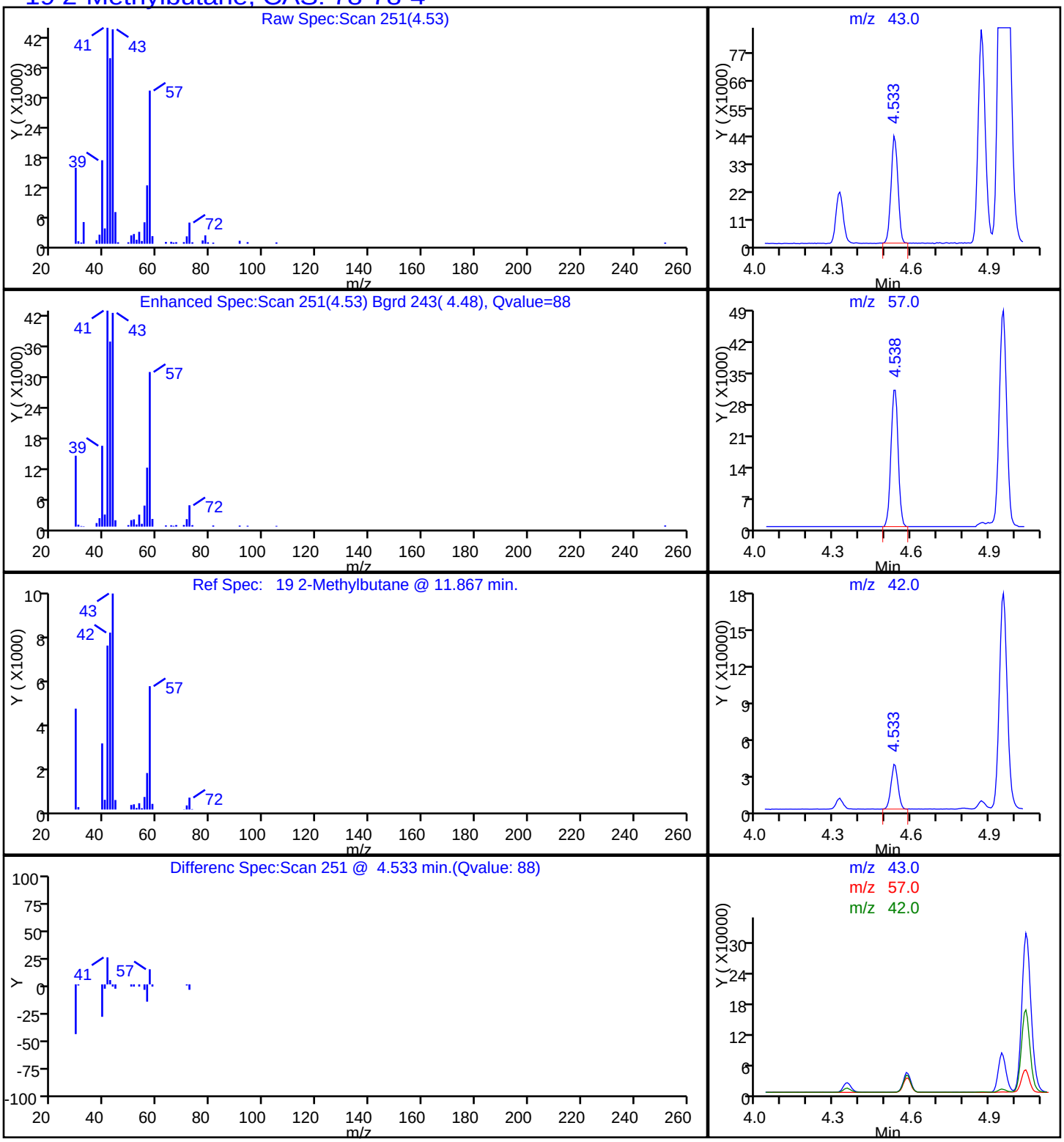
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

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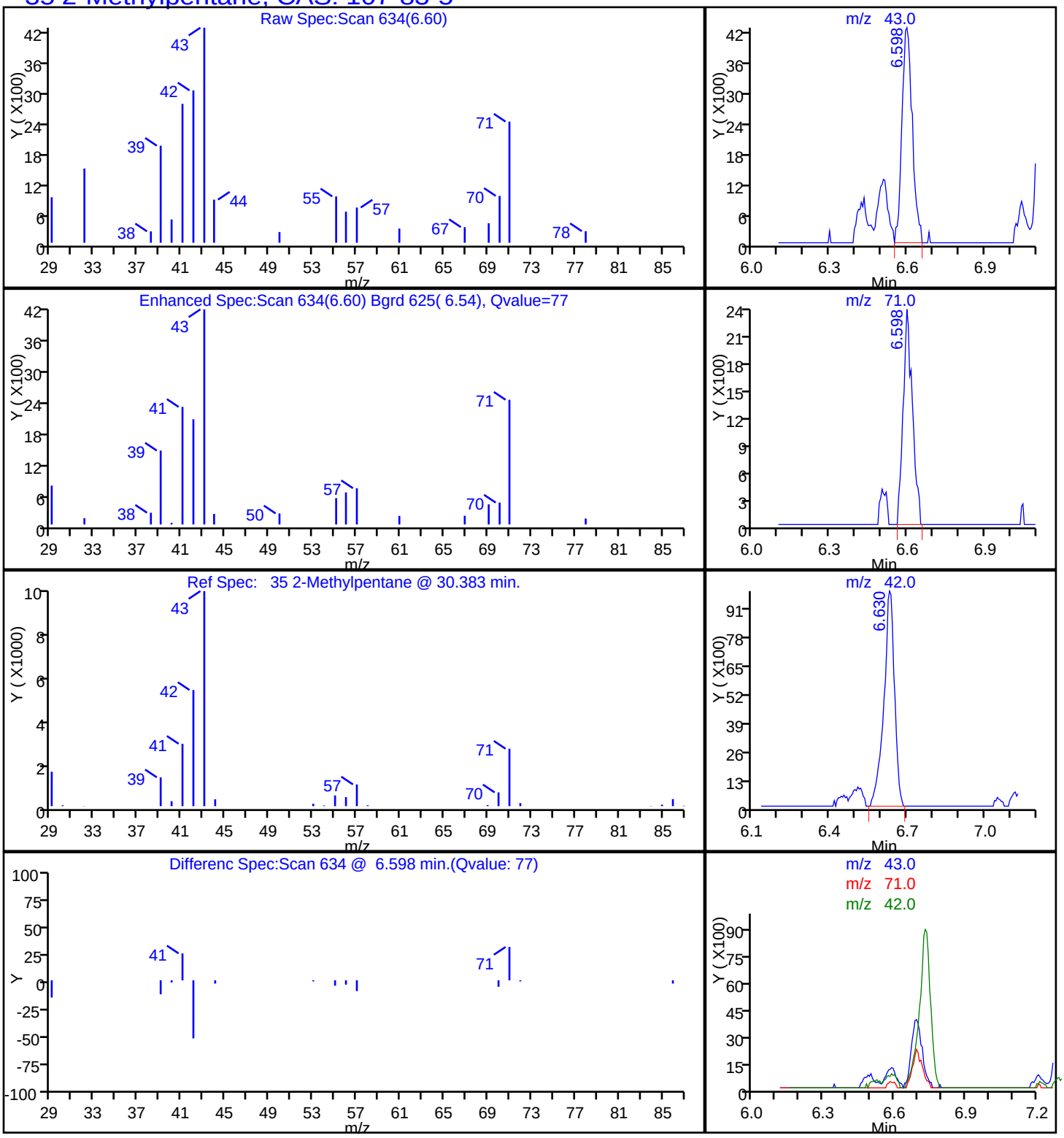
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



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TestAmerica Knoxville

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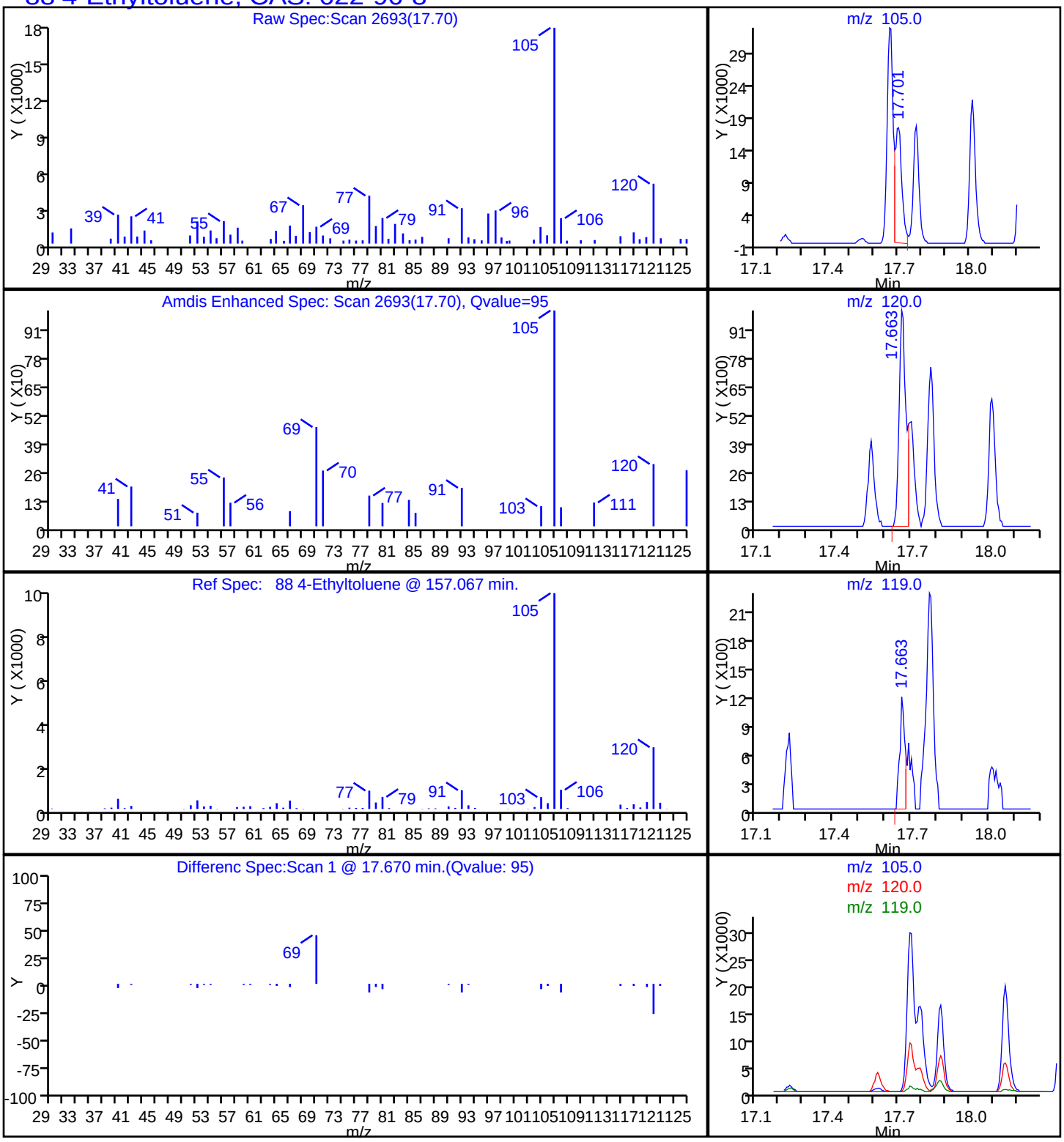
Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

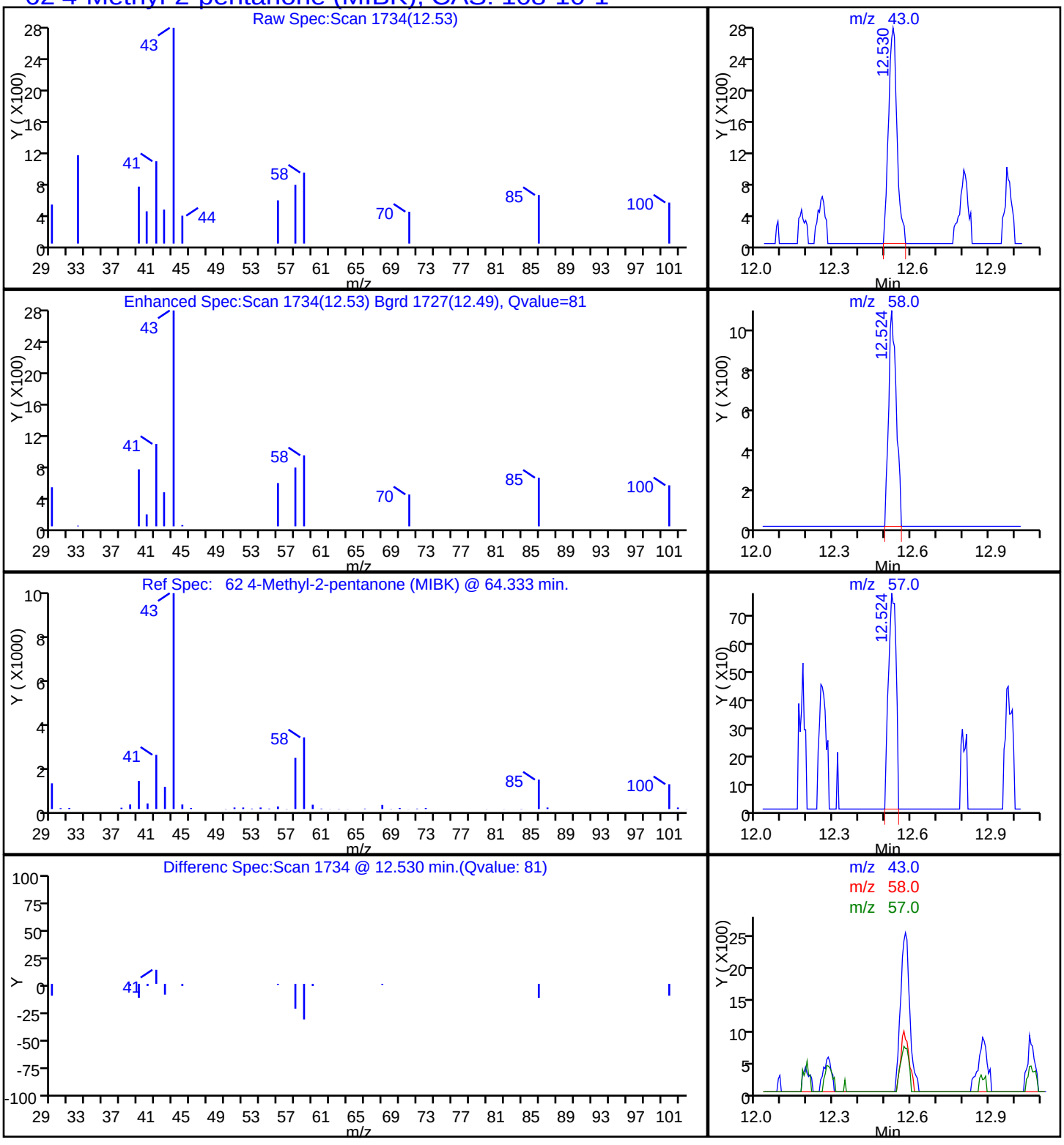
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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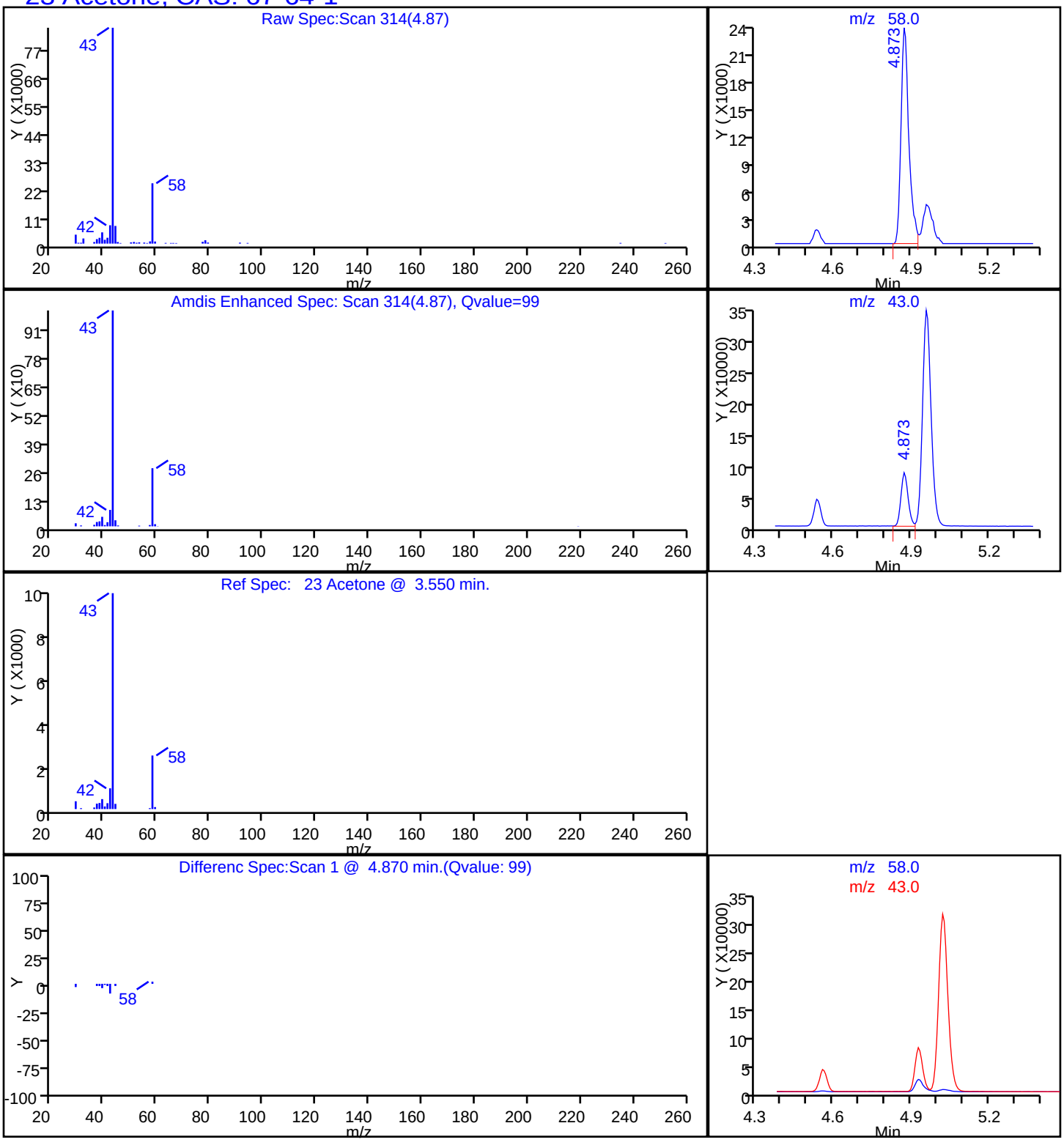
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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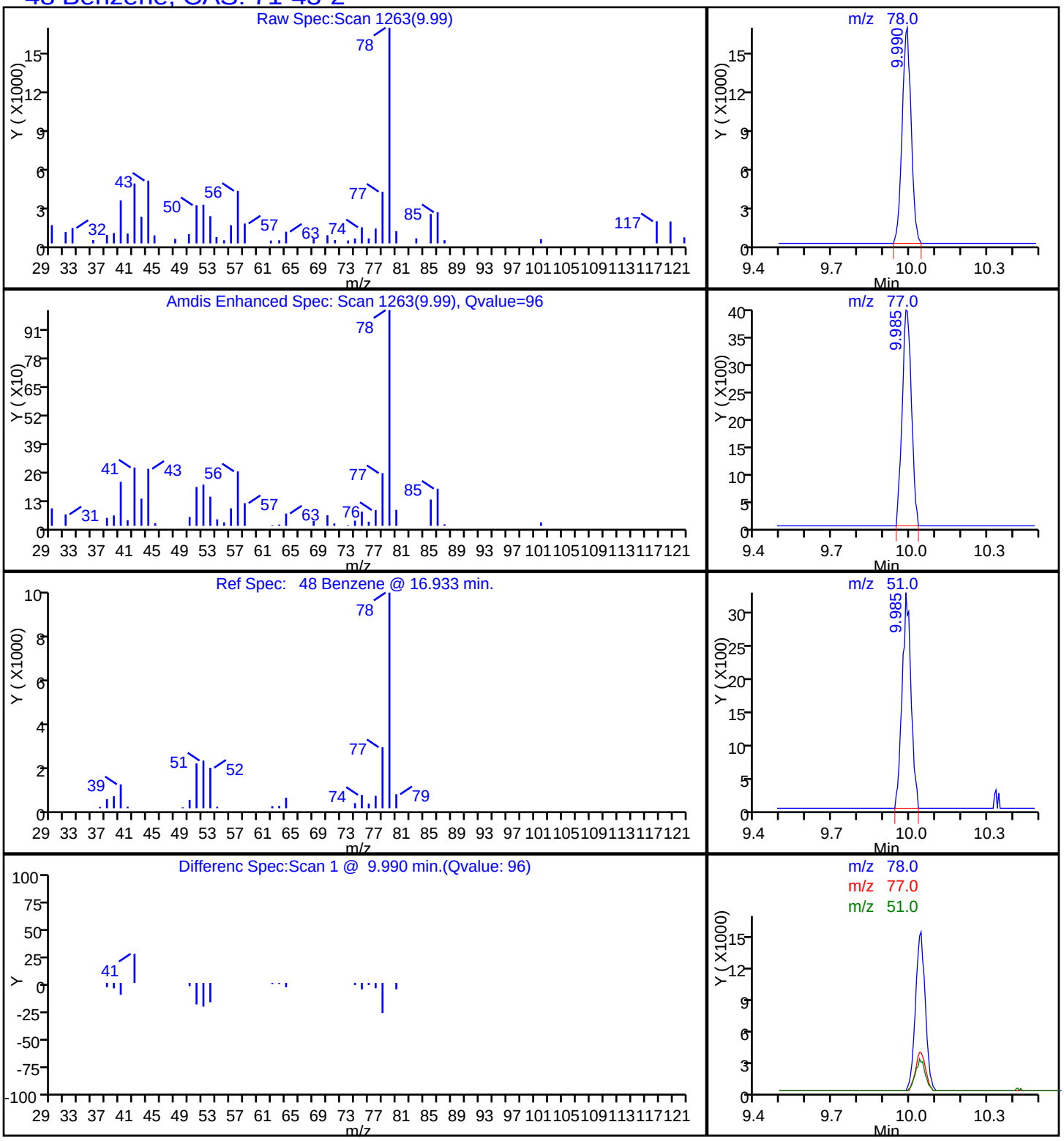
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



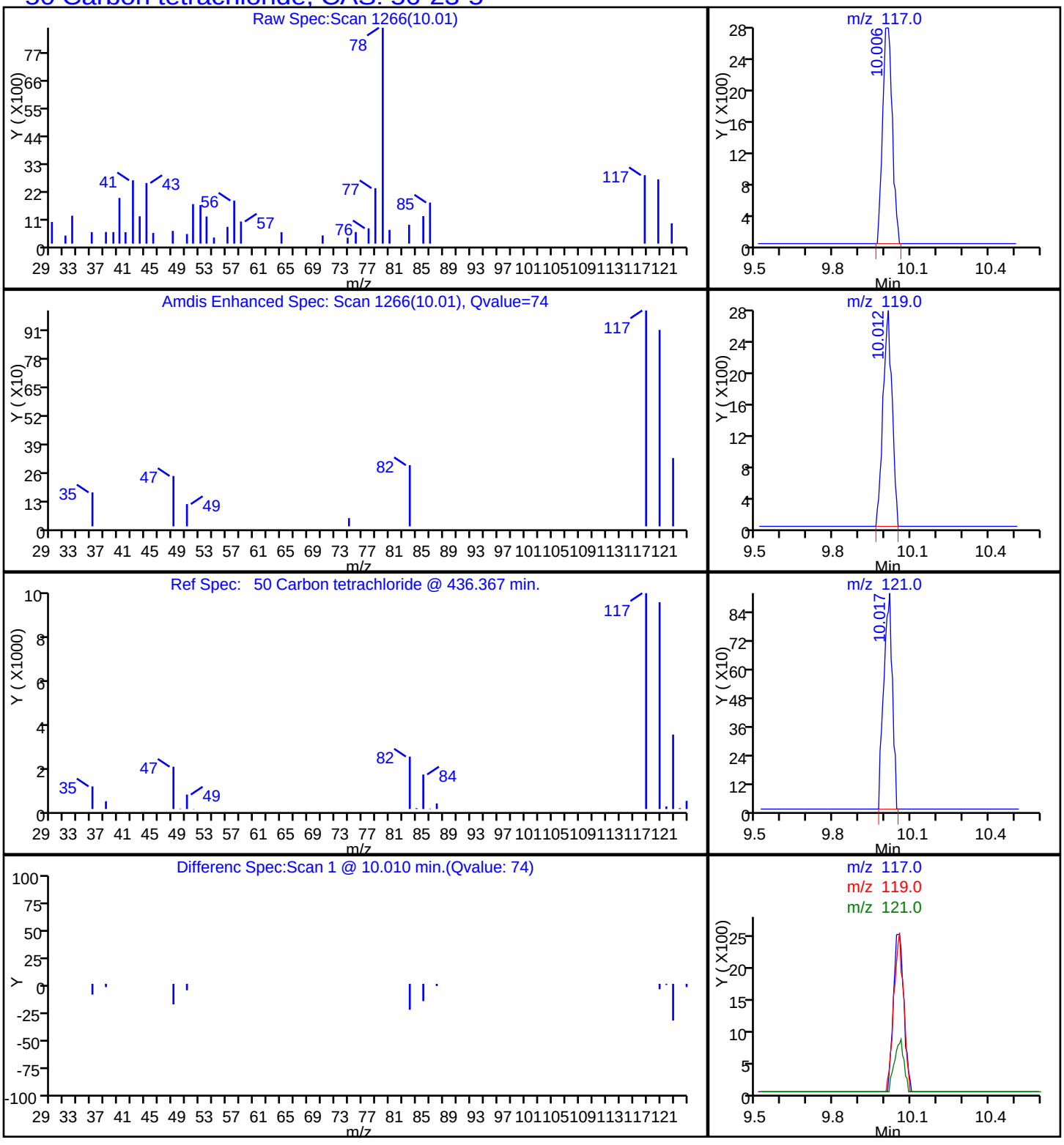
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

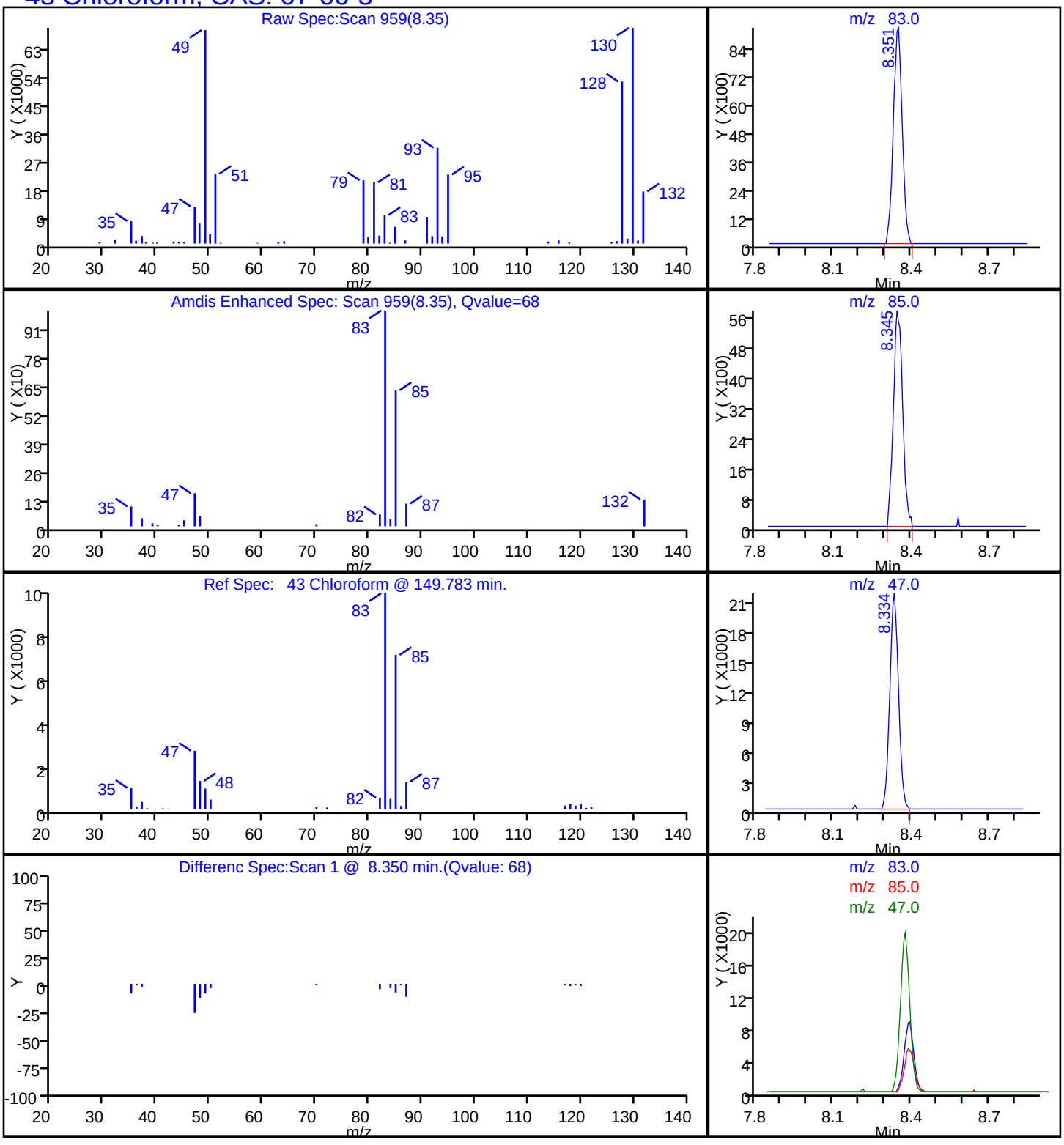
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

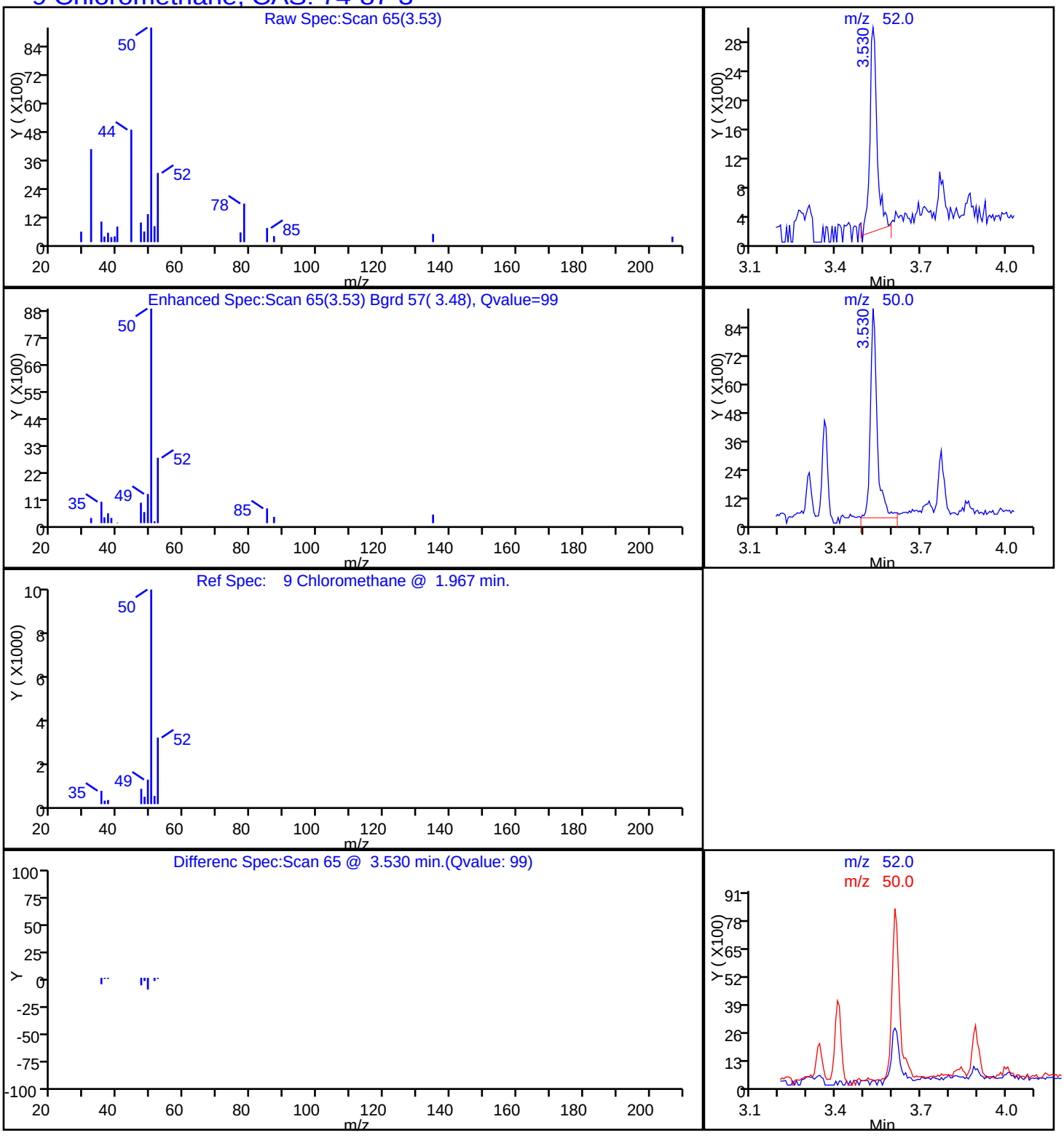
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



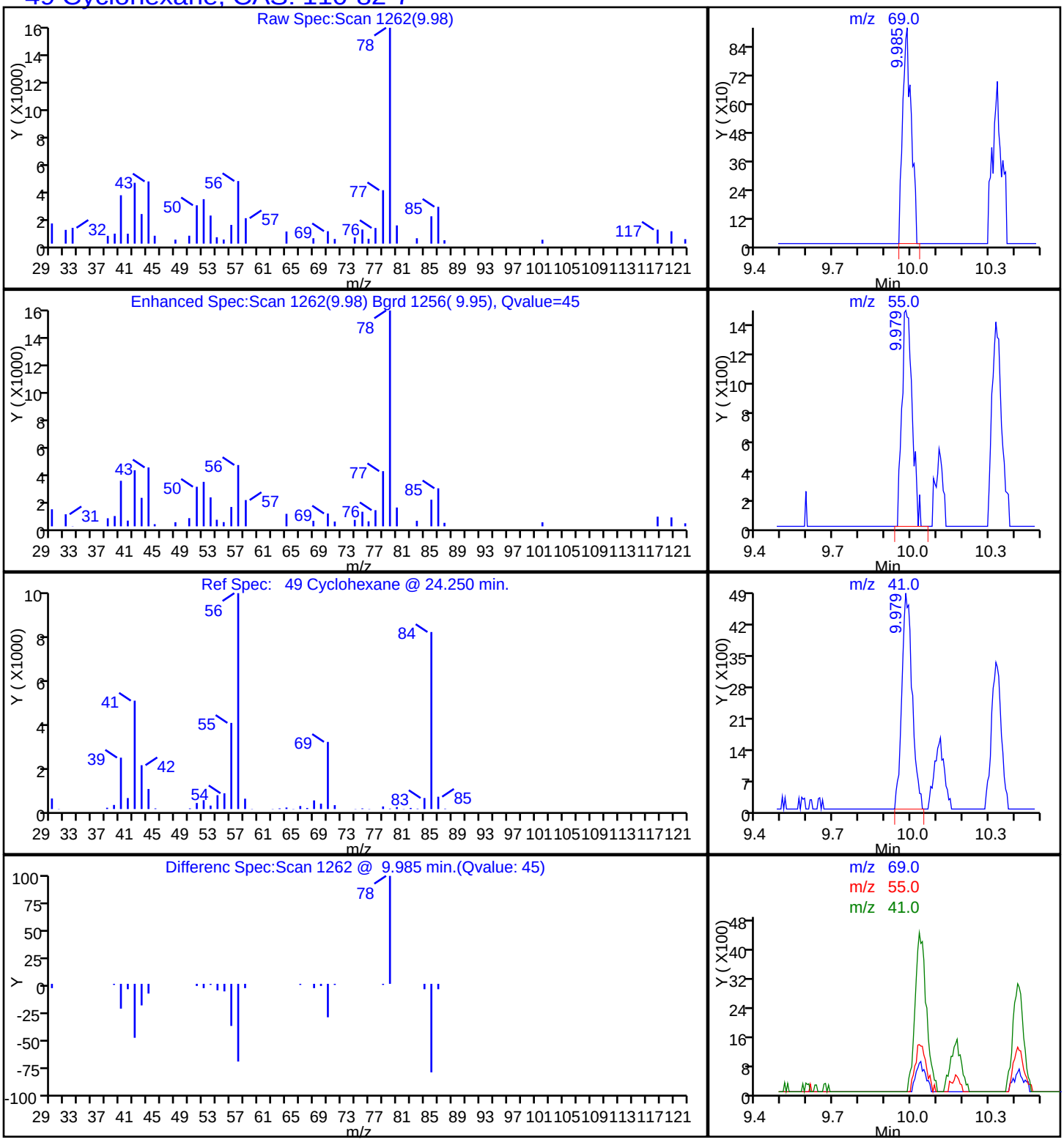
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

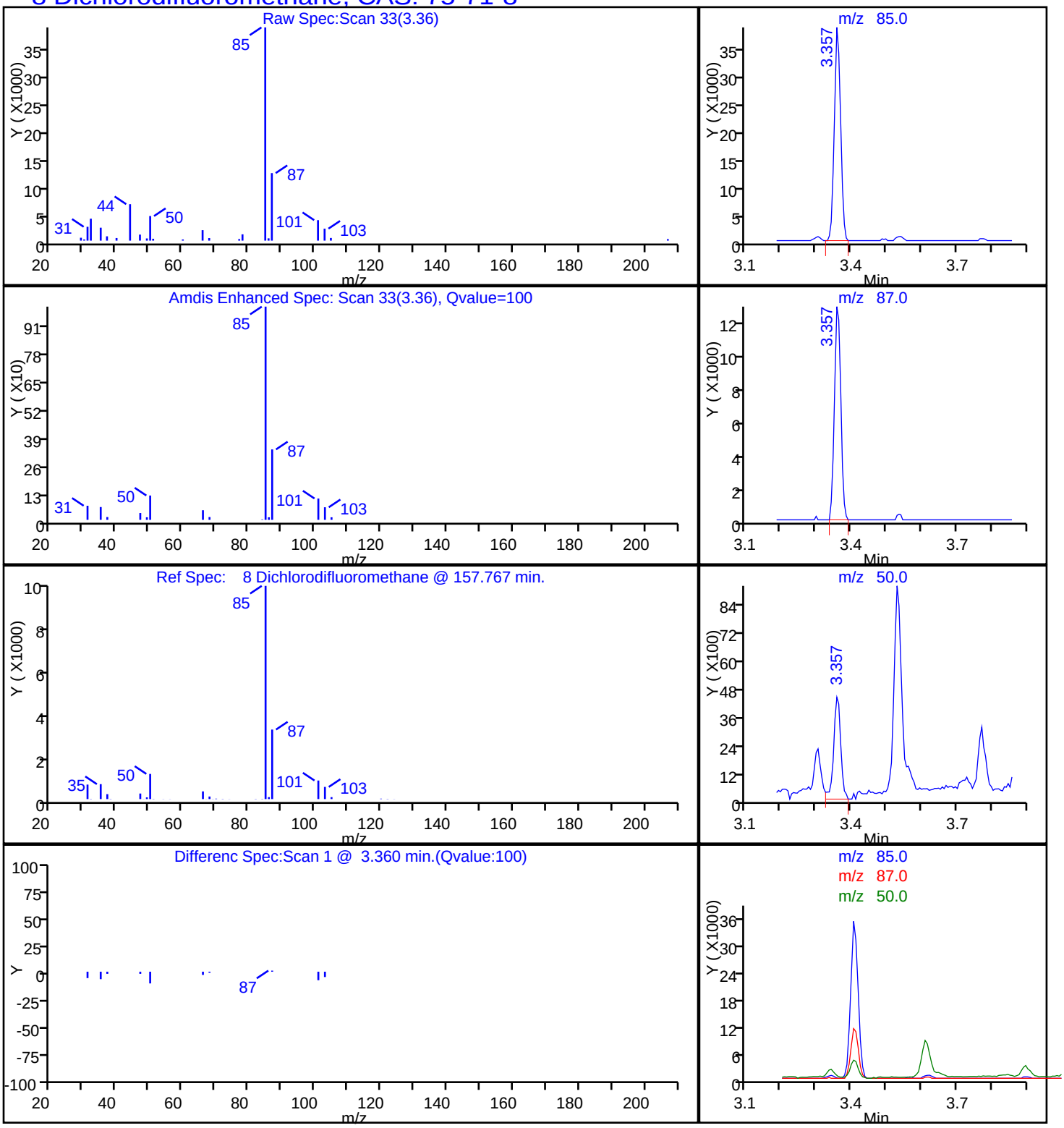
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



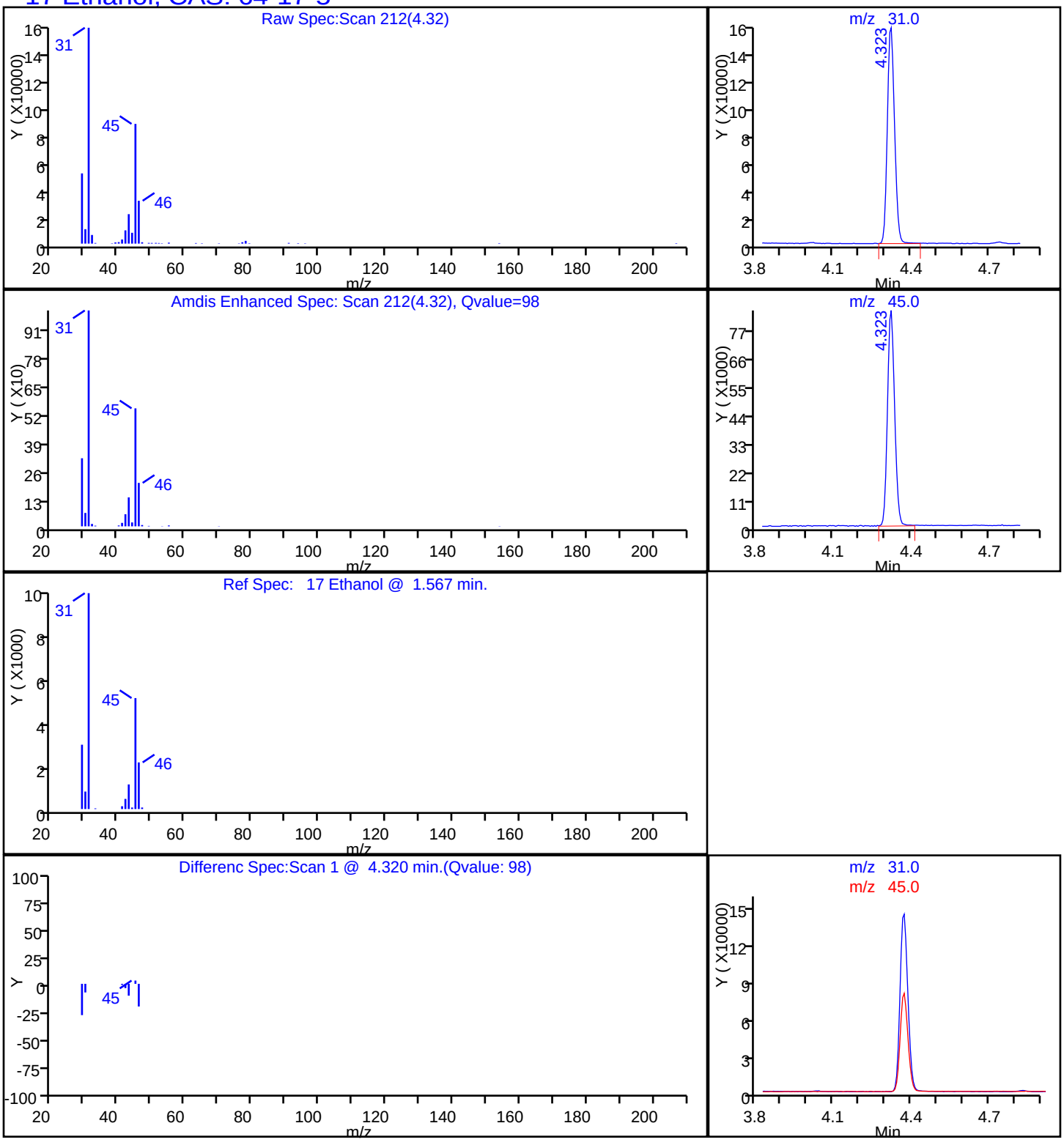
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

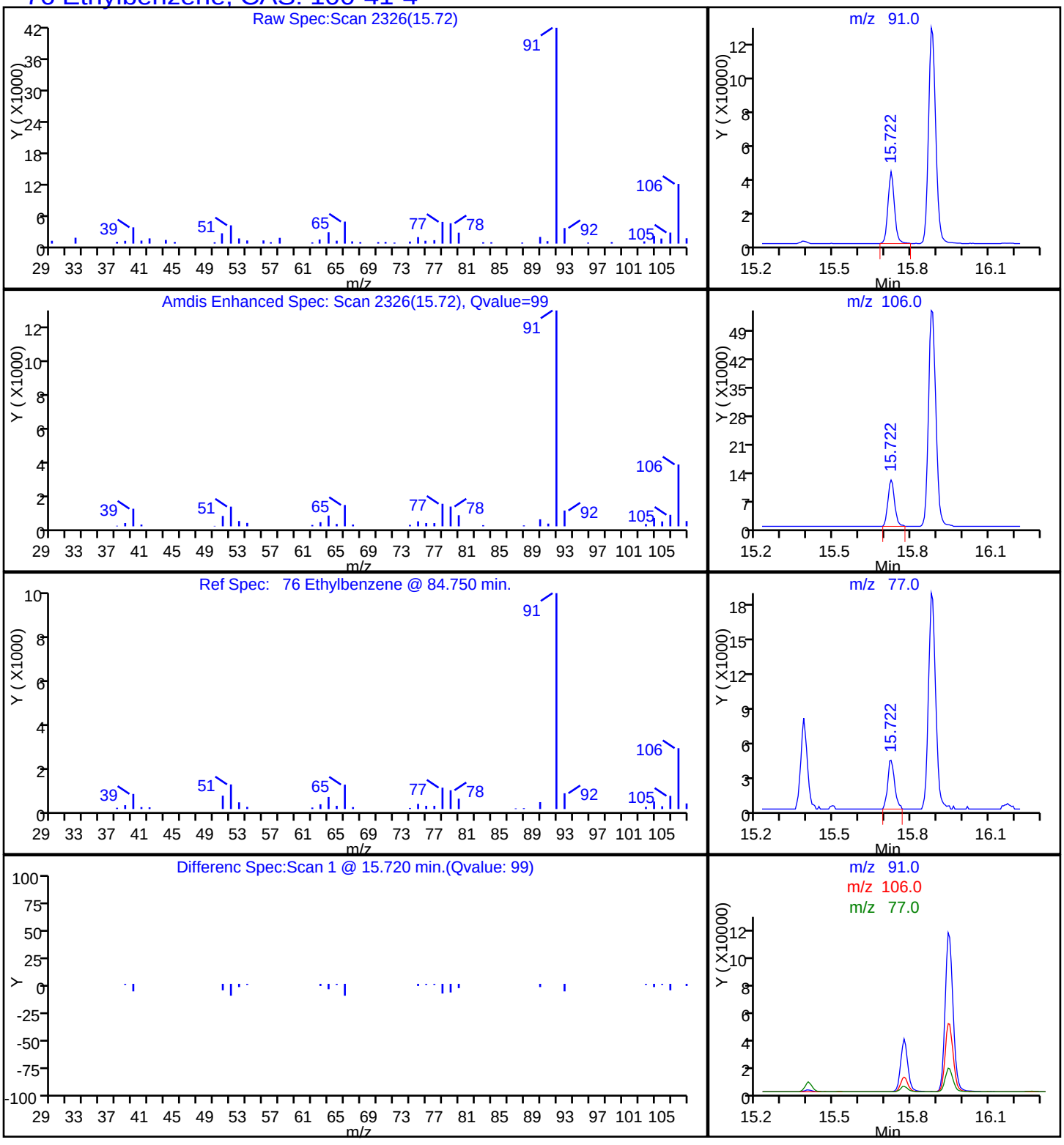
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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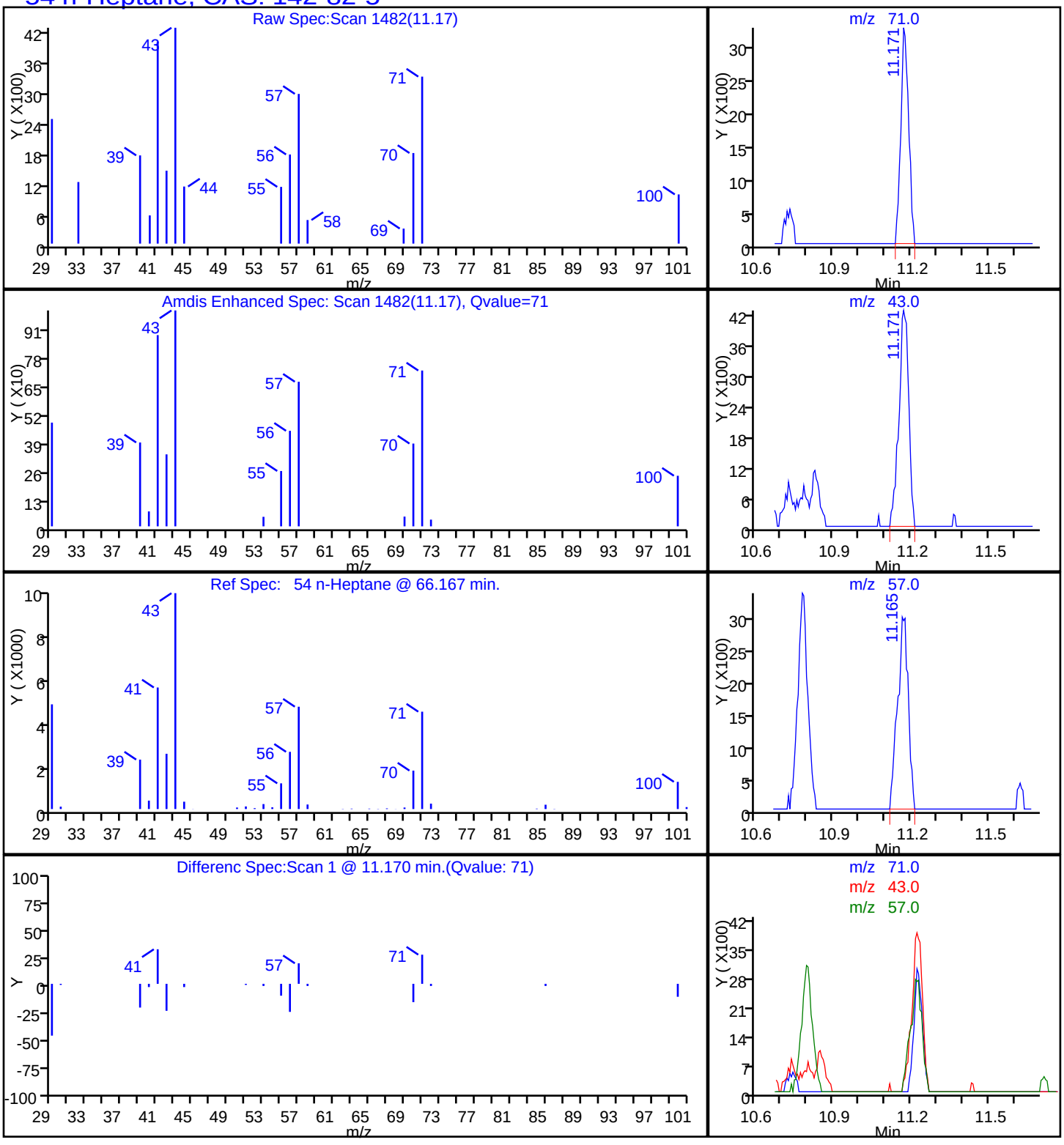
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



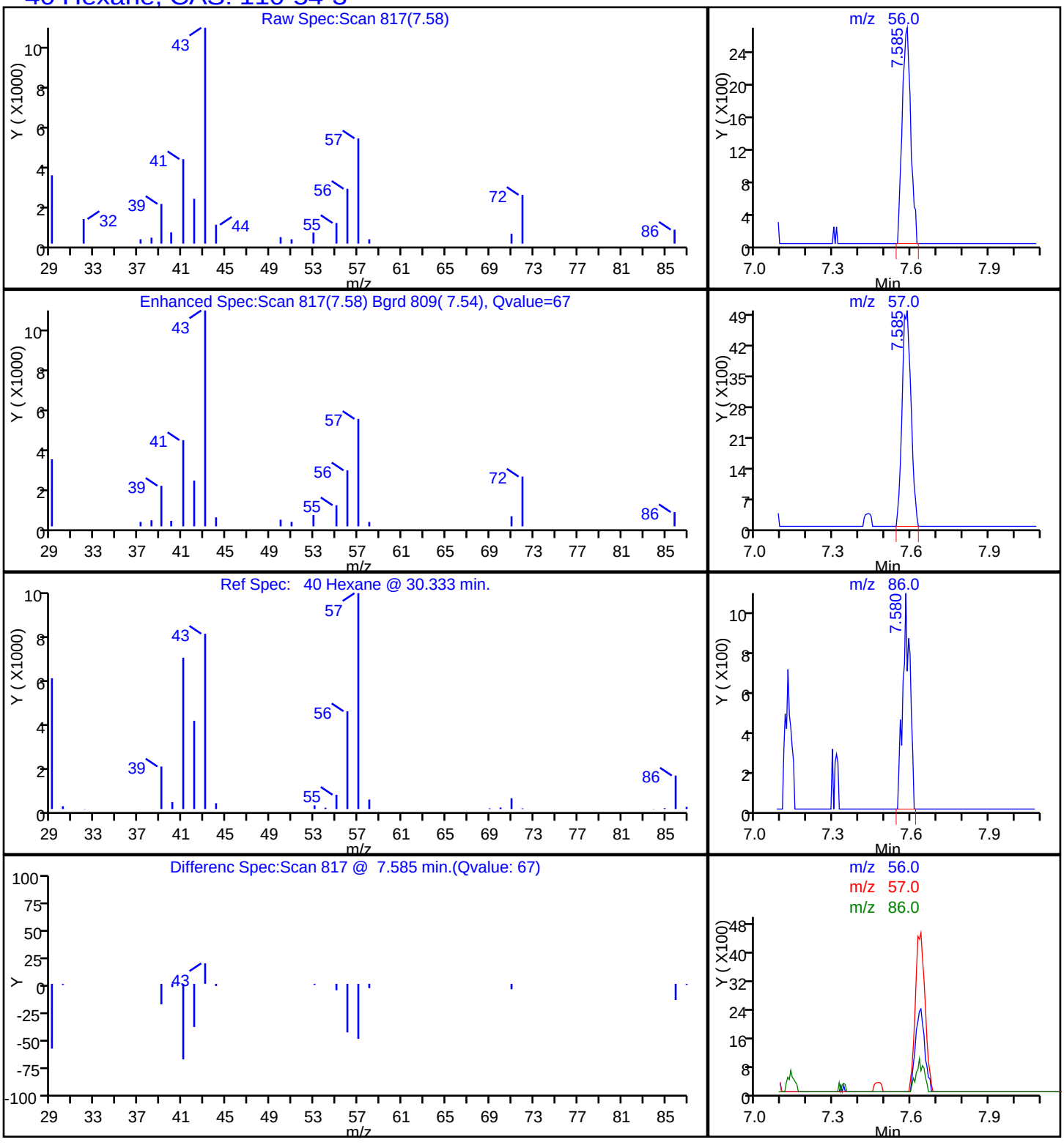
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

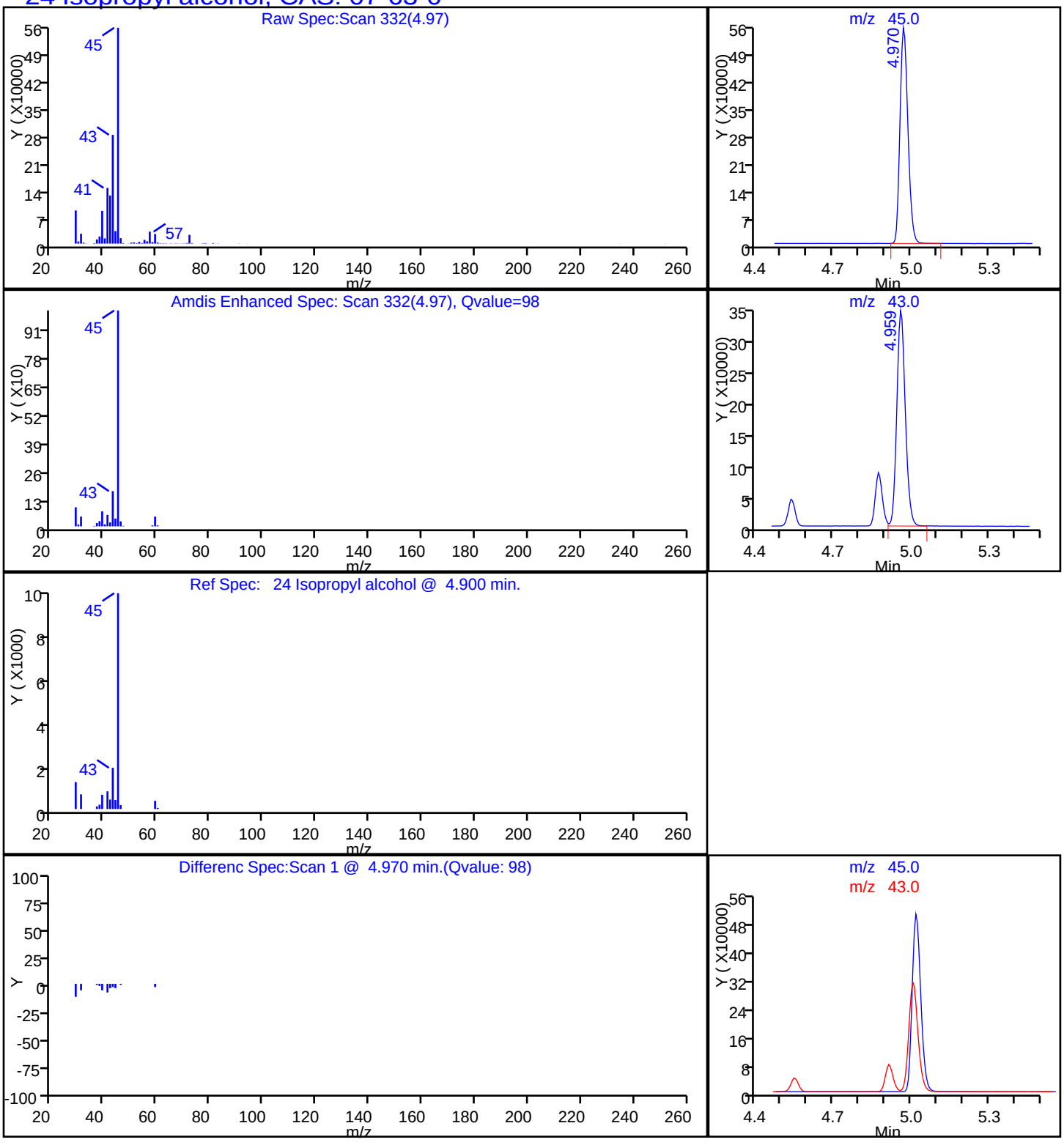
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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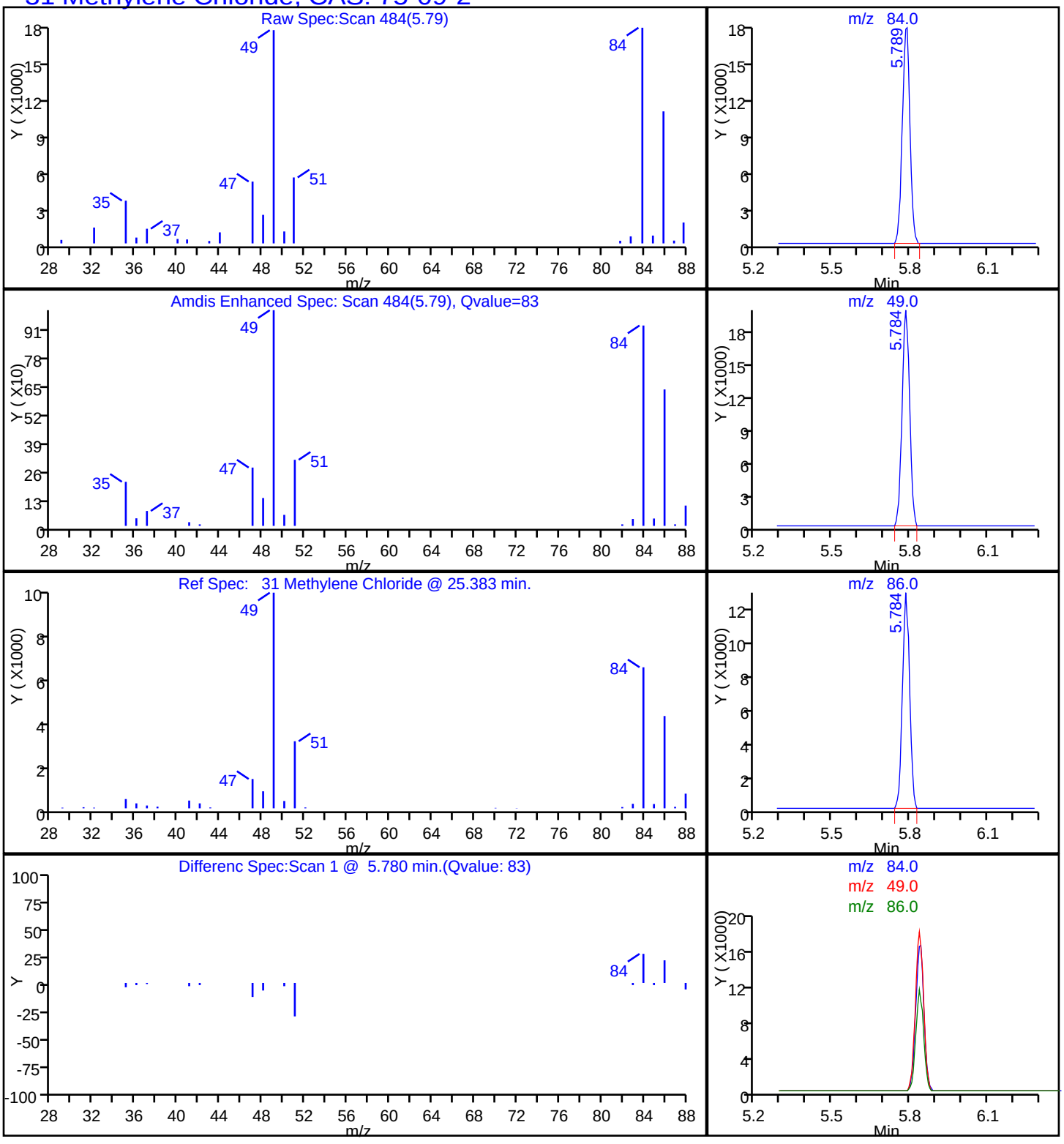
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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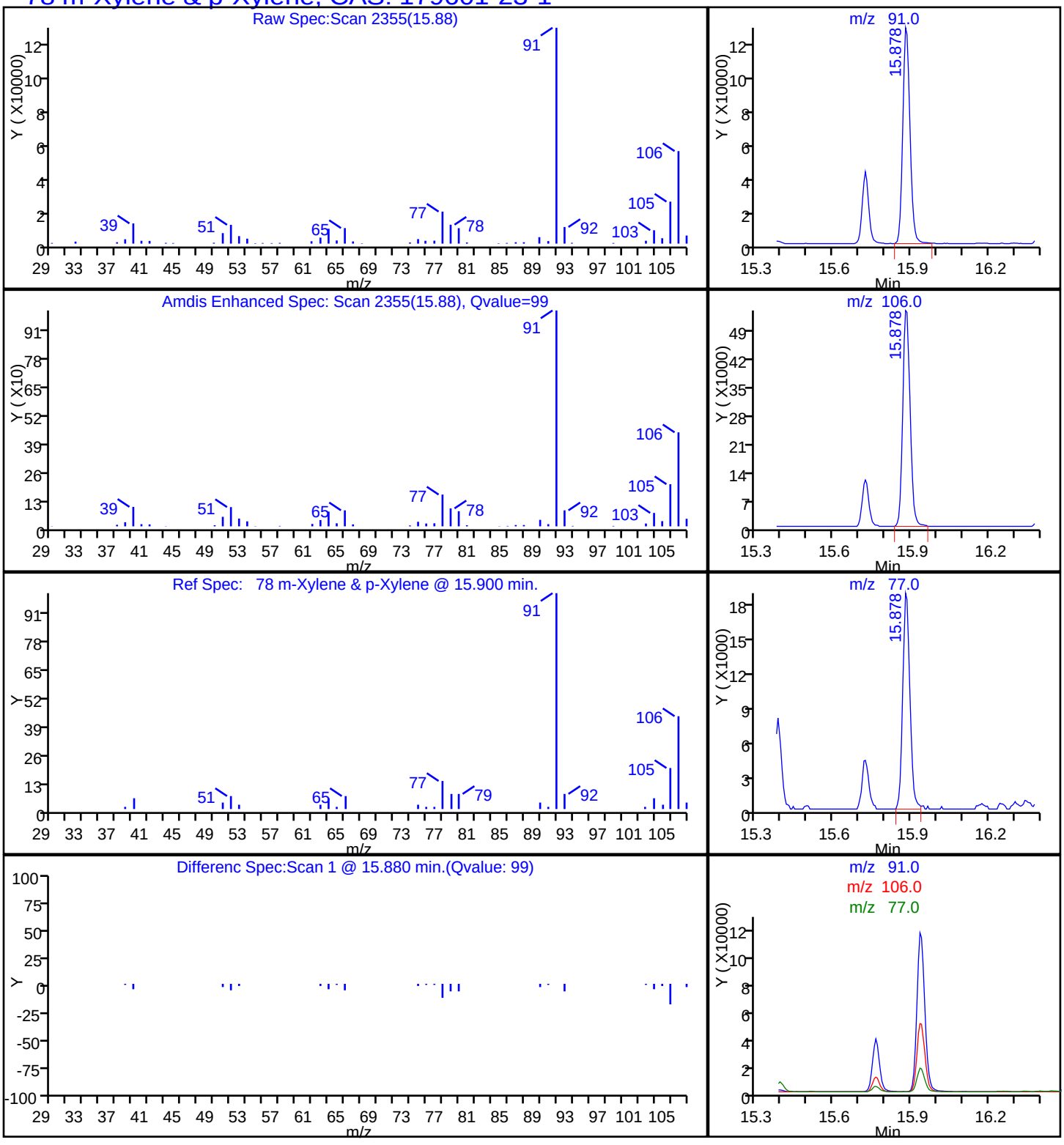
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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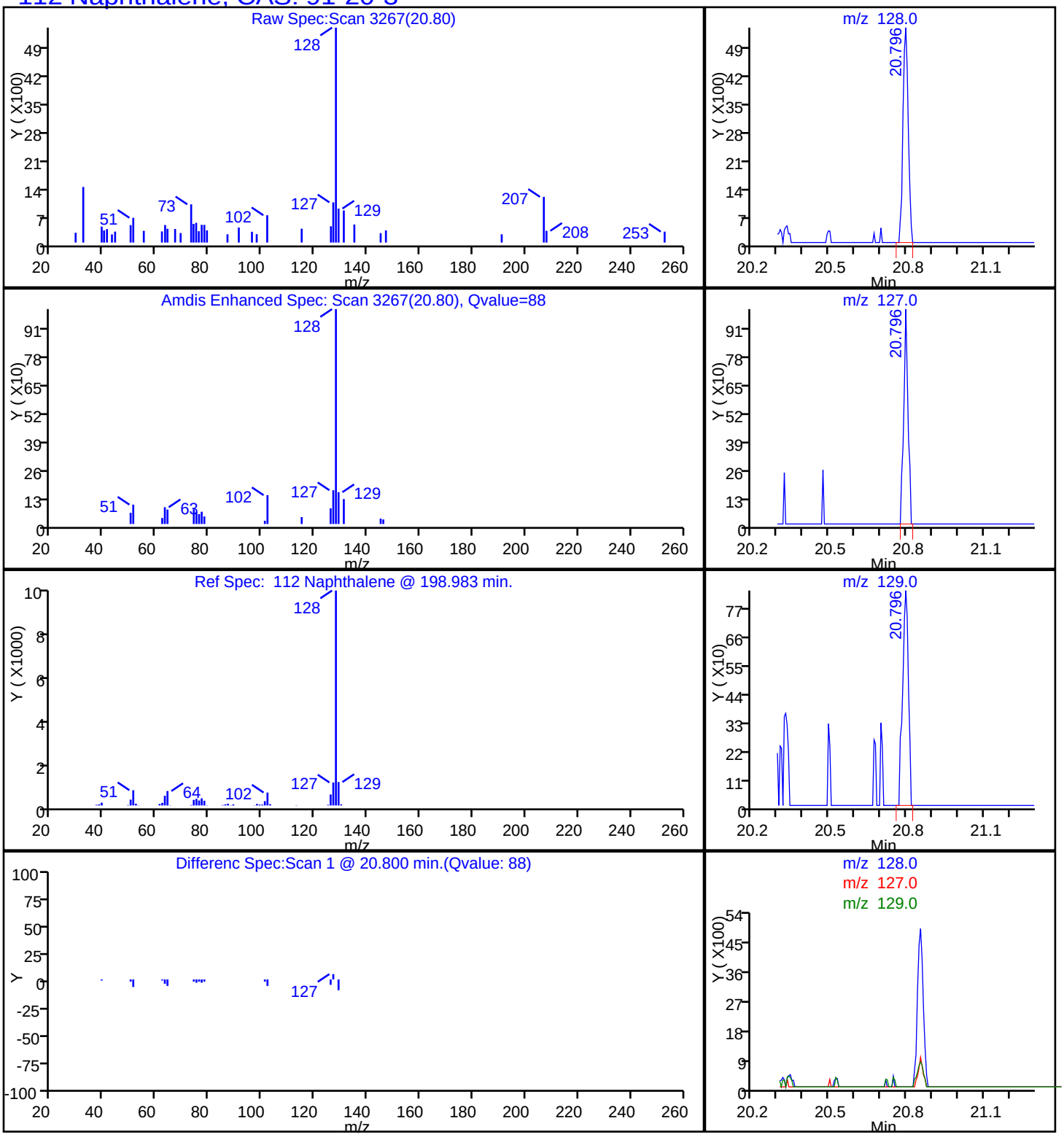
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

112 Naphthalene, CAS: 91-20-3



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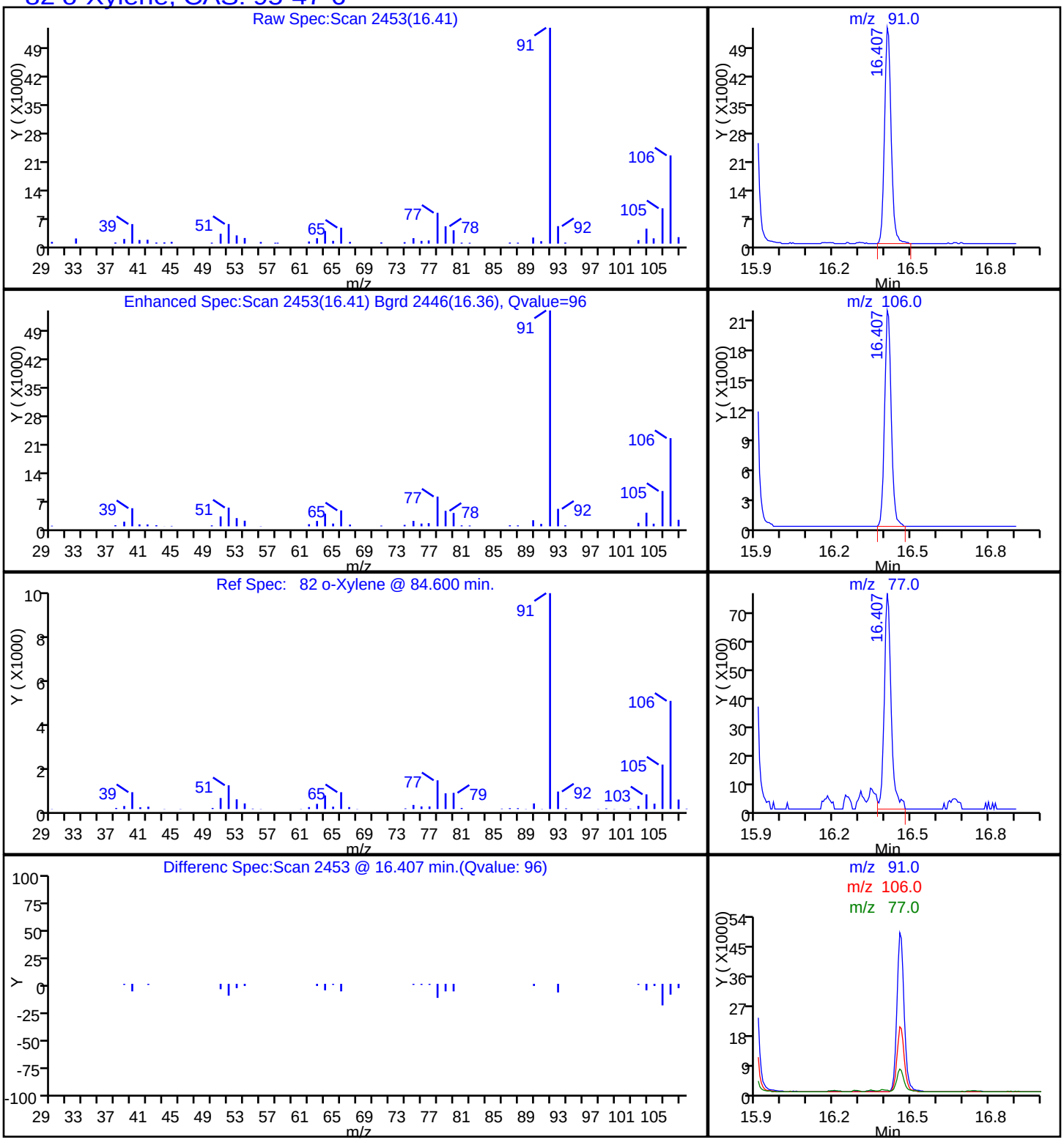
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

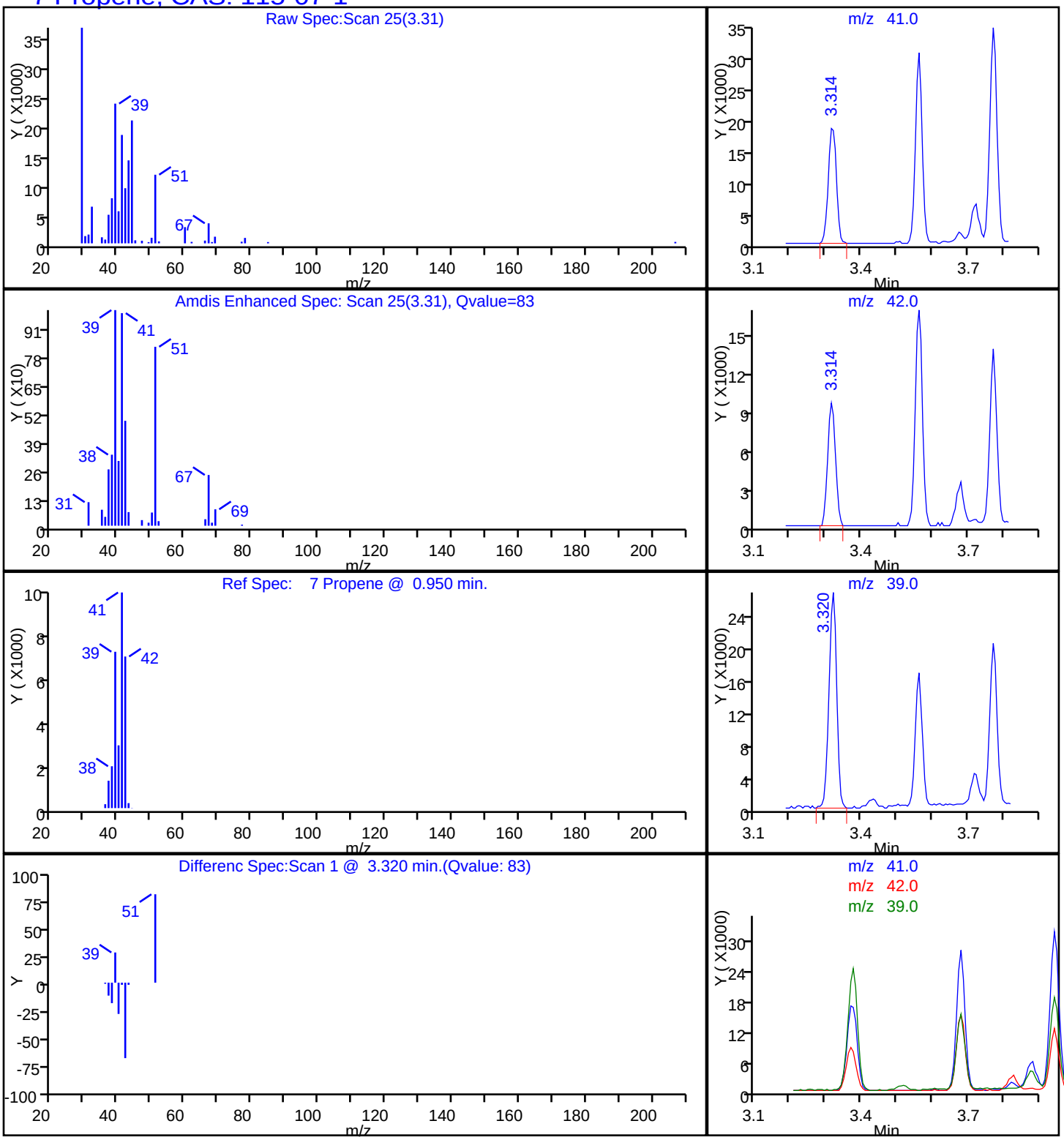
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



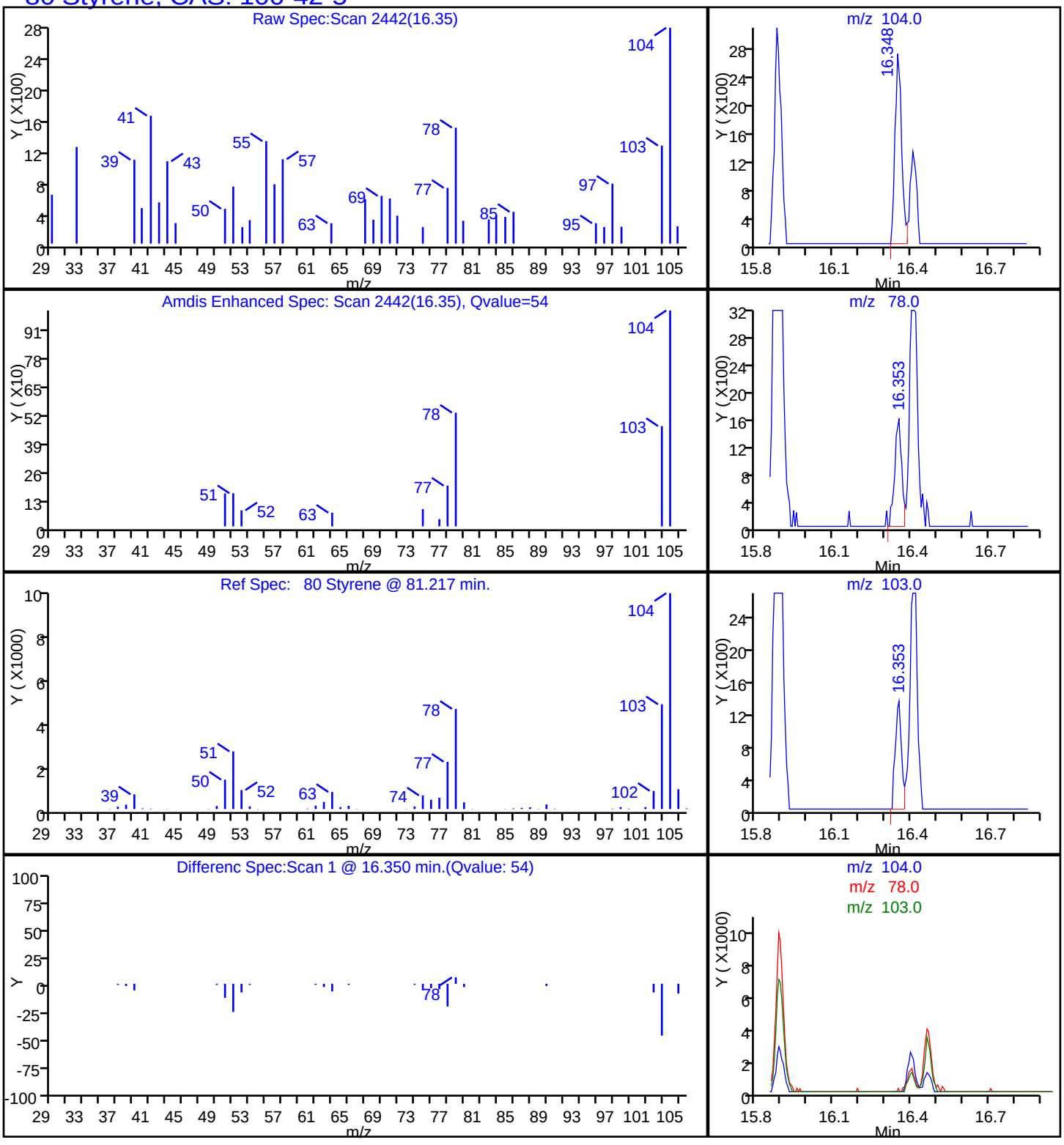
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



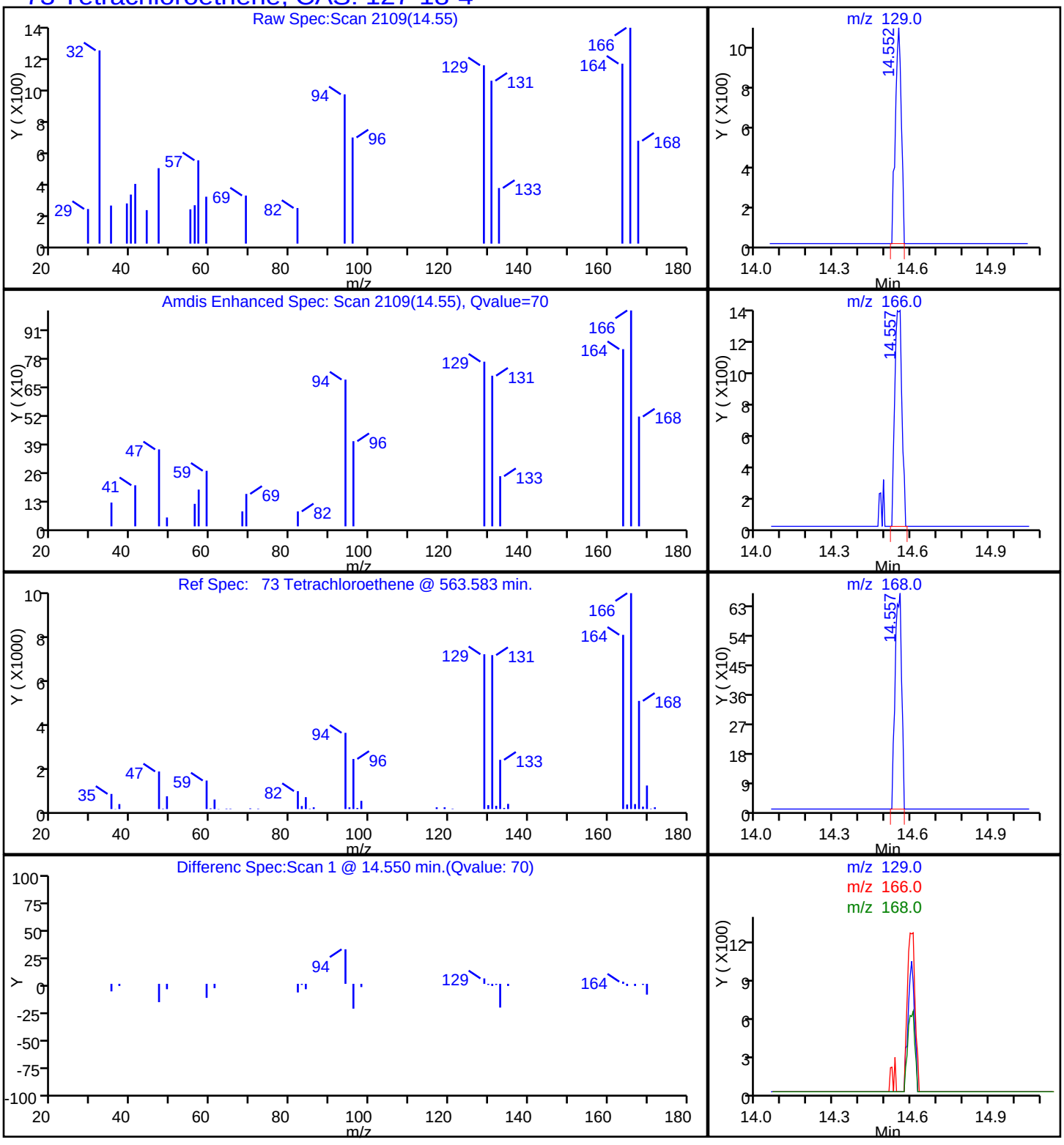
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



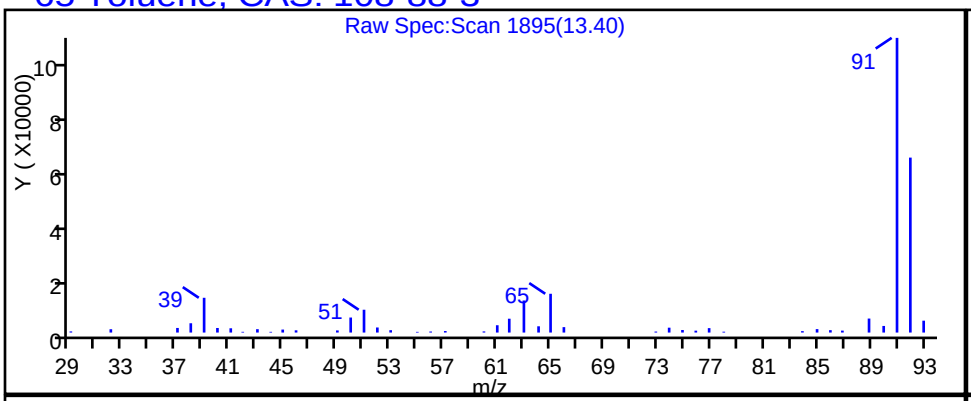
Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

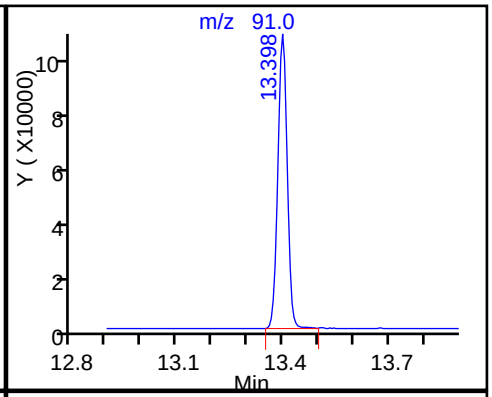
TestAmerica Knoxville

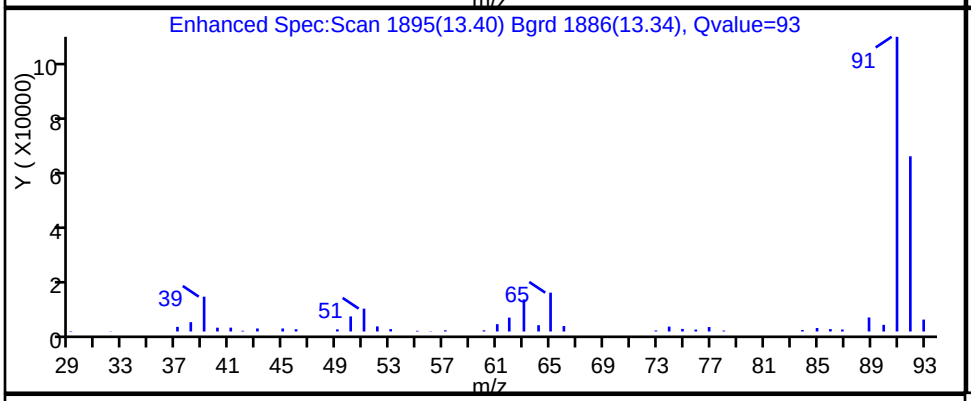
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

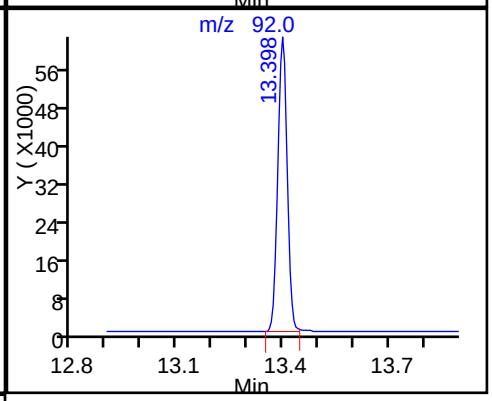
Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3
Client ID:	PCV-IA3-B10		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

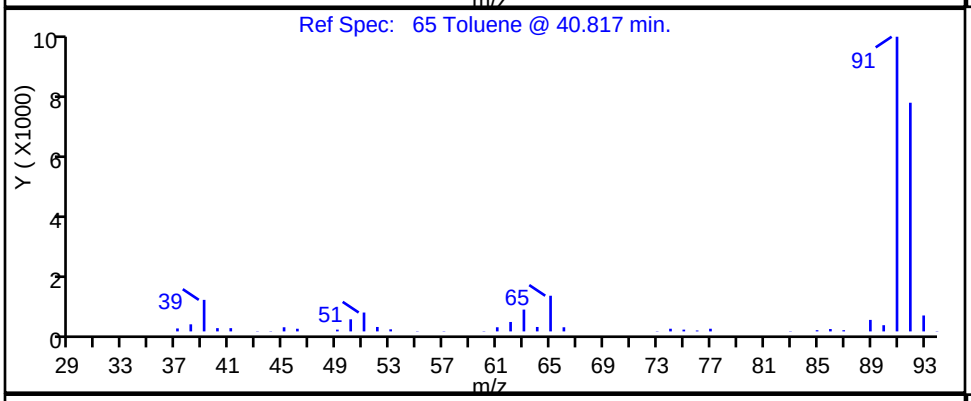
65 Toluene, CAS: 108-88-3

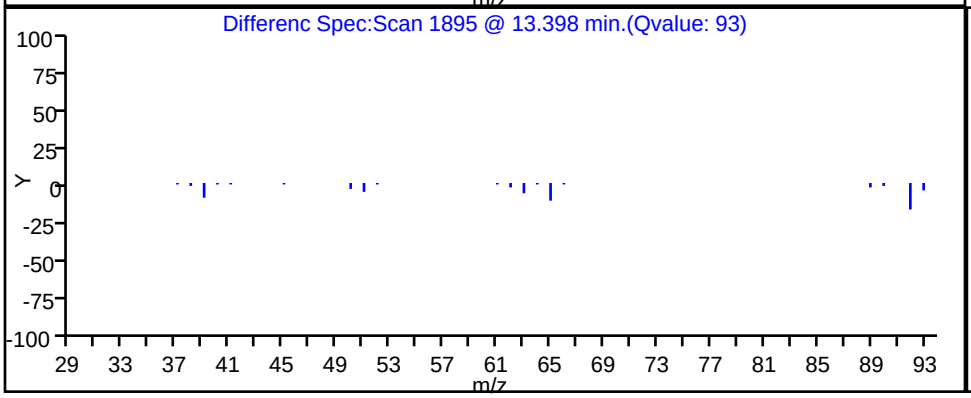


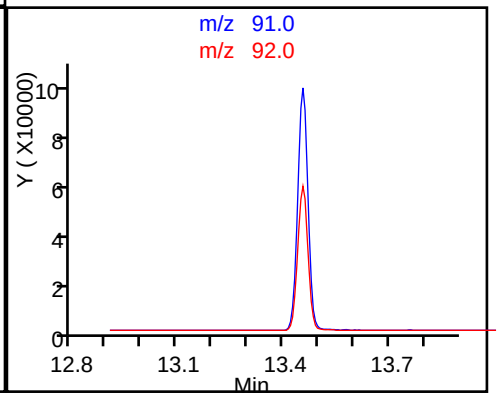












Report Date: 14-Mar-2014 07:23:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D

Injection Date: 13-Mar-2014 21:14:30 Instrument ID: ME

Lims ID: 140-1037-A-3 Lab Sample ID: 140-1037-3

Client ID: PCV-IA3-B10

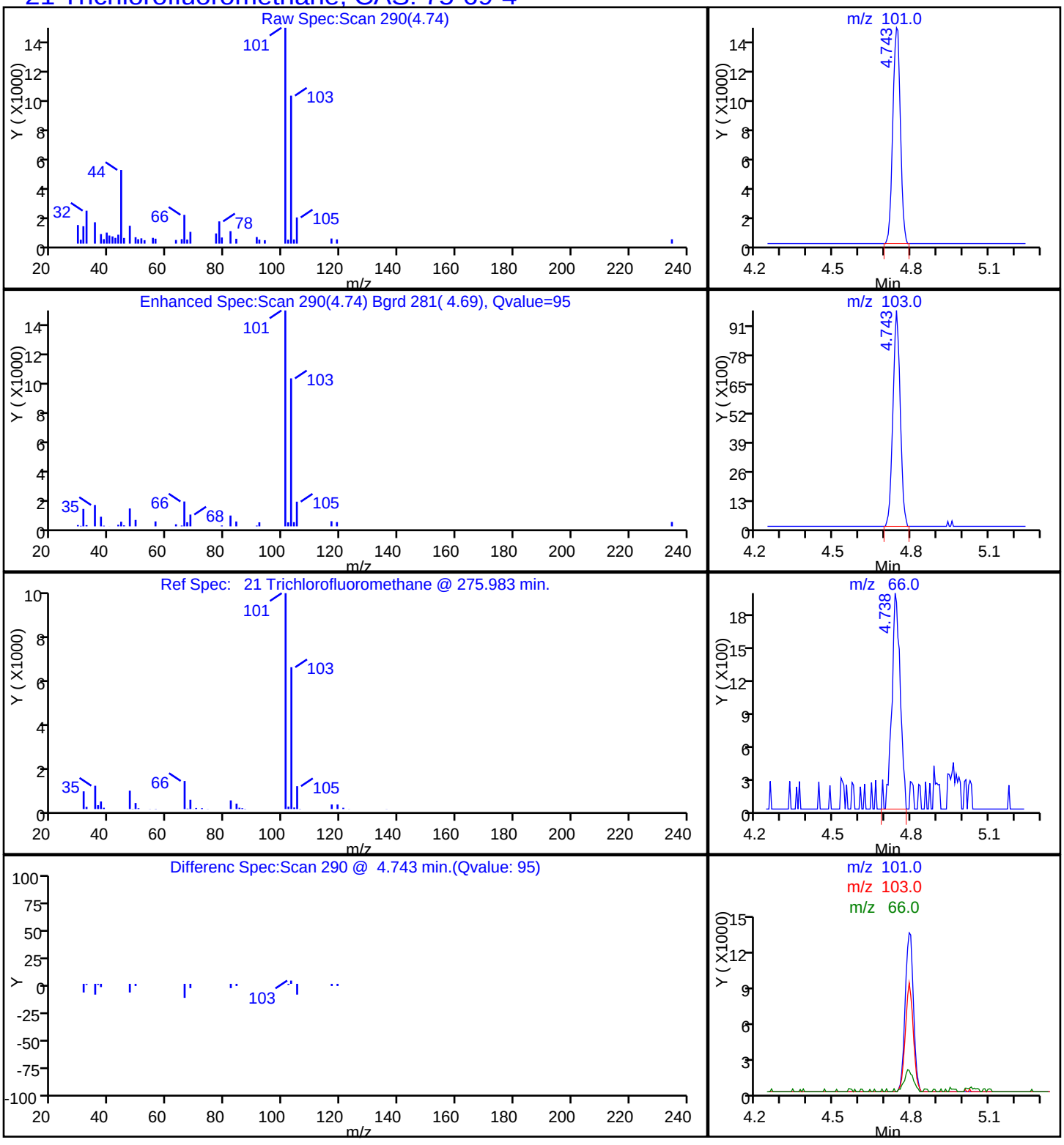
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

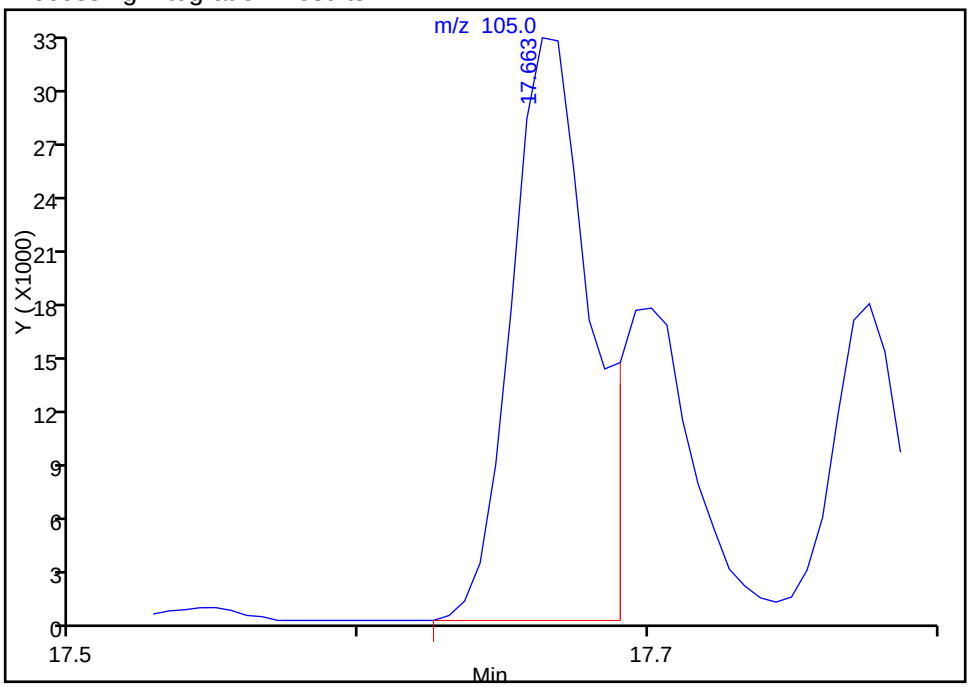
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P109.D				
Injection Date:	13-Mar-2014 21:14:30	Instrument ID:	ME		
Lims ID:	140-1037-A-3	Lab Sample ID:	140-1037-3		
Client ID:	PCV-IA3-B10				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

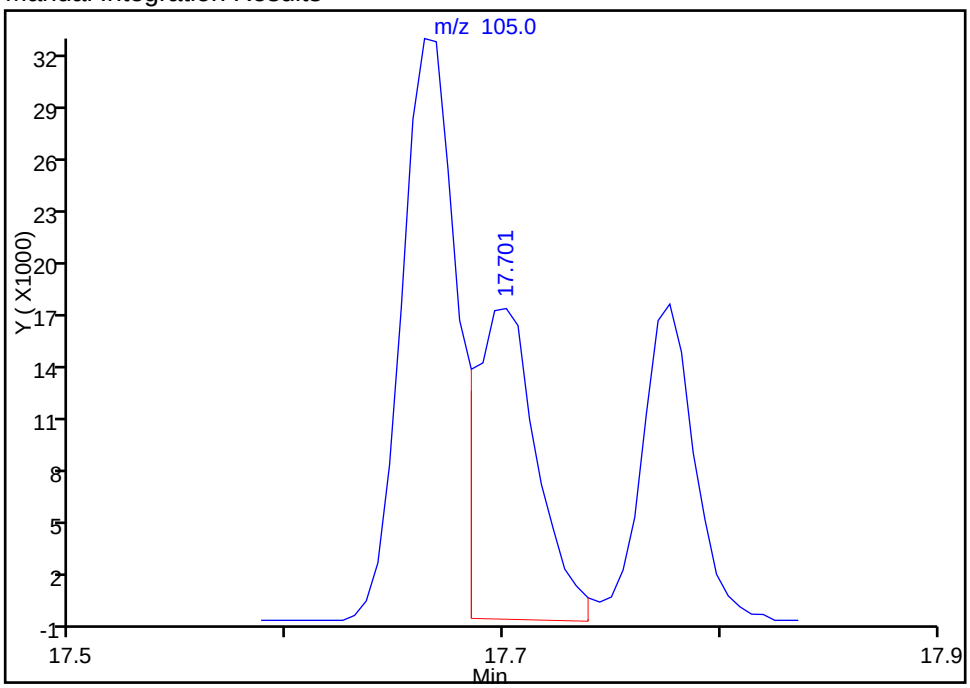
Processing Integration Results

RT: 17.66
Response: 62655
Amount: 0.181019



Manual Integration Results

RT: 17.70
Response: 35306
Amount: 0.102004



Reviewer: tajh, 14-Mar-2014 07:23:40
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.060	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.39		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.091	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.043	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.39	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.72		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.13	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.16	J	0.50	0.045
67-64-1	Acetone	58.08	5.3		5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.057	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.12	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.45	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.060	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068
64-17-5	Ethanol	46.07	110		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.89		0.20	0.068
142-82-5	Heptane	100.21	0.18	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	20		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.57		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	4.3		0.20	0.12
91-20-3	Naphthalene	128.17	0.47	J	0.50	0.090
95-47-6	o-Xylene	106.17	1.5		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	0.12	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.069	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.66		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.46	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.9		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.45	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.63	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.64	J	2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	0.69		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.36	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.58	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.92	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.21	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34
64-17-5	Ethanol	46.07	200		3.8	3.8
100-41-4	Ethylbenzene	106.17	3.9		0.87	0.30
142-82-5	Heptane	100.21	0.74	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.51	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	48		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.0		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	19		0.87	0.52
91-20-3	Naphthalene	128.17	2.5	J	2.6	0.47
95-47-6	o-Xylene	106.17	6.6		0.87	0.26
115-07-1	Propene	42.08	2.5	cn	0.86	0.13
100-42-5	Styrene	104.15	0.51	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.47	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IALC-B10 Lab Sample ID: 140-1037-4

Matrix: Air Lab File ID: EC13P110.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D
Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4
Client ID: PCV-IALC-B10
Sample Type: Client
Inject. Date: 13-Mar-2014 21:59:30 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-4
Misc. Info.: E031314,TO155,,140-0000518-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:24:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:24:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	79	252982	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1266126	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	1128994	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	1002275	4.05	
7 Propene	41	3.314	3.309	0.005	84	36592	0.5750	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	96	45540	0.1627	
9 Chloromethane	52	3.530	3.530	0.0	89	3998	0.1790	
17 Ethanol	31	4.317	4.312	0.005	98	1068427	42.2	
19 2-Methylbutane	43	4.533	4.538	-0.005	88	25460	0.2874	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25118	0.0895	
23 Acetone	58	4.867	4.878	-0.011	99	81465	2.13	
24 Isopropyl alcohol	45	4.970	4.970	0.0	98	769534	7.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	65	4148	0.0239	
31 Methylene Chloride	84	5.784	5.789	-0.005	80	16509	0.2284	
39 2-Butanone (MEK)	72	7.580	7.585	-0.005	92	6513	0.1573	
40 Hexane	56	7.574	7.585	-0.011	57	3863	0.0574	
43 Chloroform	83	8.340	8.351	-0.011	22	10325	0.0476	
49 Cyclohexane	69	9.985	9.990	-0.005	46	1149	0.0240	
48 Benzene	78	9.985	9.995	-0.010	94	22016	0.0864	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	84	5622	0.0230	
53 Isooctane	57	10.772	10.788	-0.016	67	6715	0.0171	
54 n-Heptane	71	11.176	11.182	-0.006	71	7001	0.0726	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	85	9381	0.0625	
65 Toluene	91	13.398	13.403	-0.005	94	80277	0.2654	
73 Tetrachloroethene	129	14.552	14.552	0.0	82	3550	0.0276	
76 Ethylbenzene	91	15.722	15.722	0.0	100	138251	0.3566	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	528485	1.73	
80 Styrene	104	16.348	16.353	-0.005	90	10086	0.0478	
82 o-Xylene	91	16.407	16.412	-0.005	97	199960	0.6067	
88 4-Ethyltoluene	105	17.701	17.701	0.0	79	21427	0.0514	
89 1,3,5-Trimethylbenzene	120	17.771	17.776	-0.005	88	6914	0.0366	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	97	53594	0.1547	
112 Naphthalene	128	20.796	20.796	0.0	98	47645	0.1899	

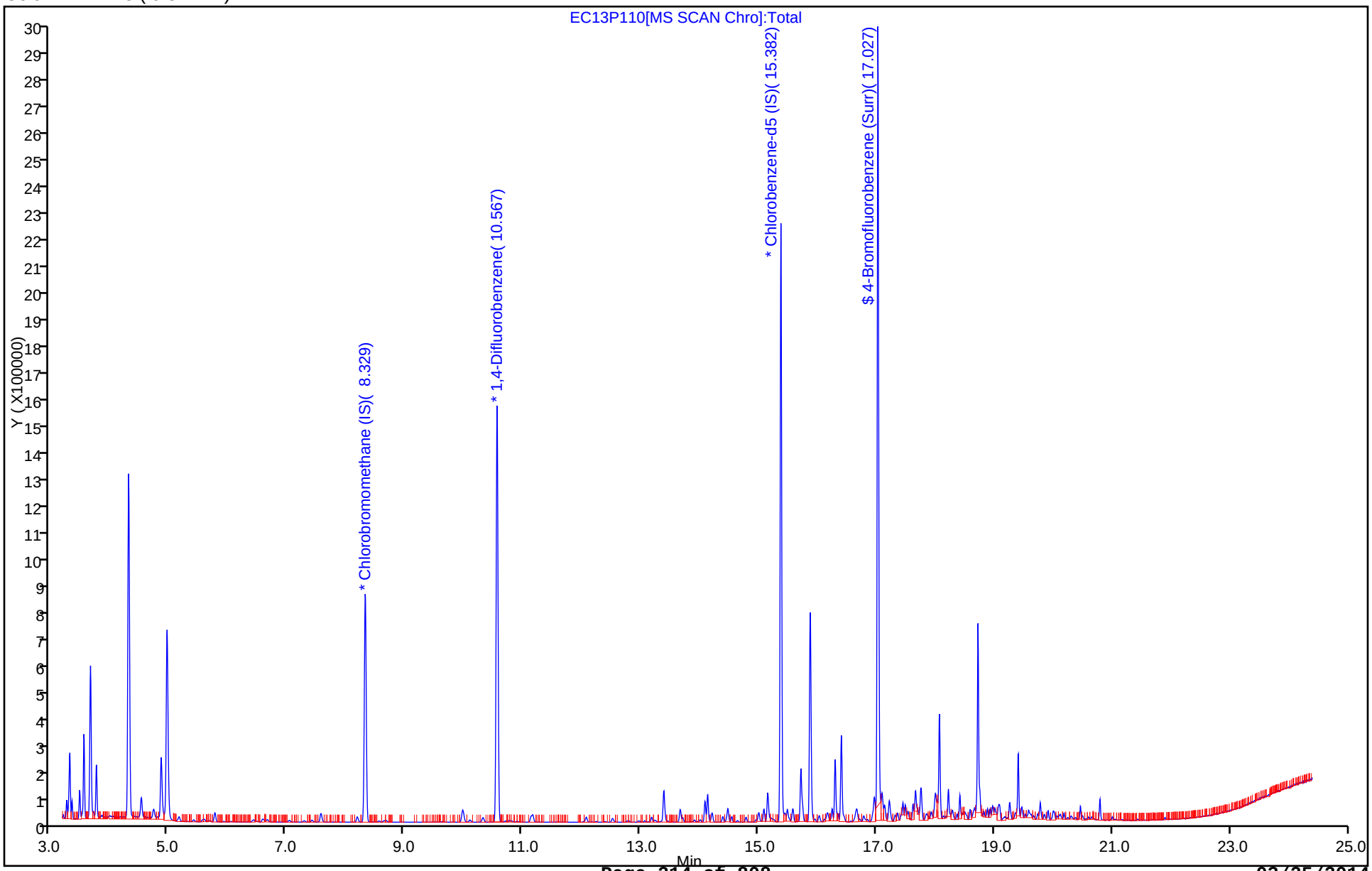
Report Date: 14-Mar-2014 07:24:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4	Worklist Smp#:	15
Client ID:	PCV-IALC-B10				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

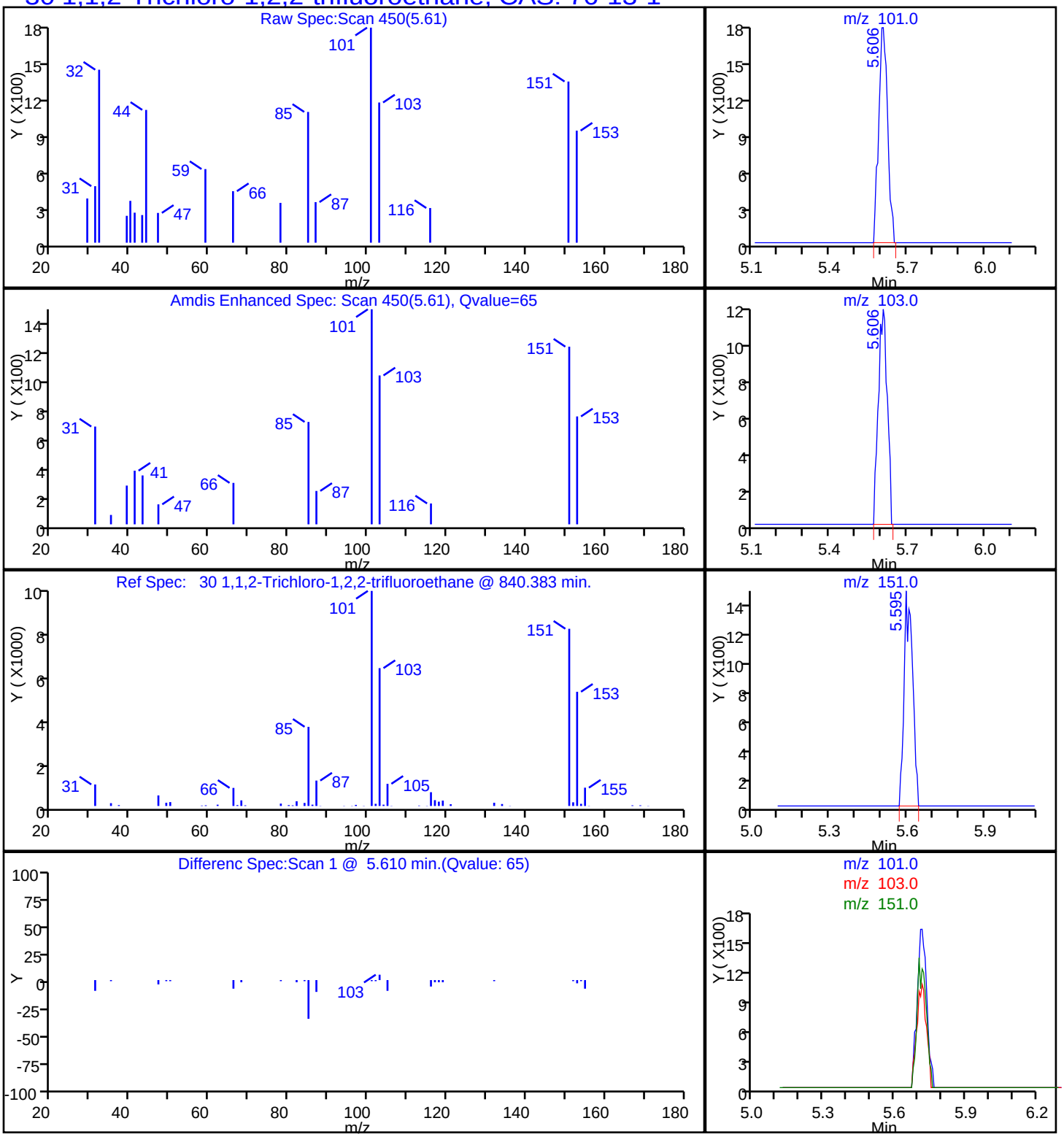
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

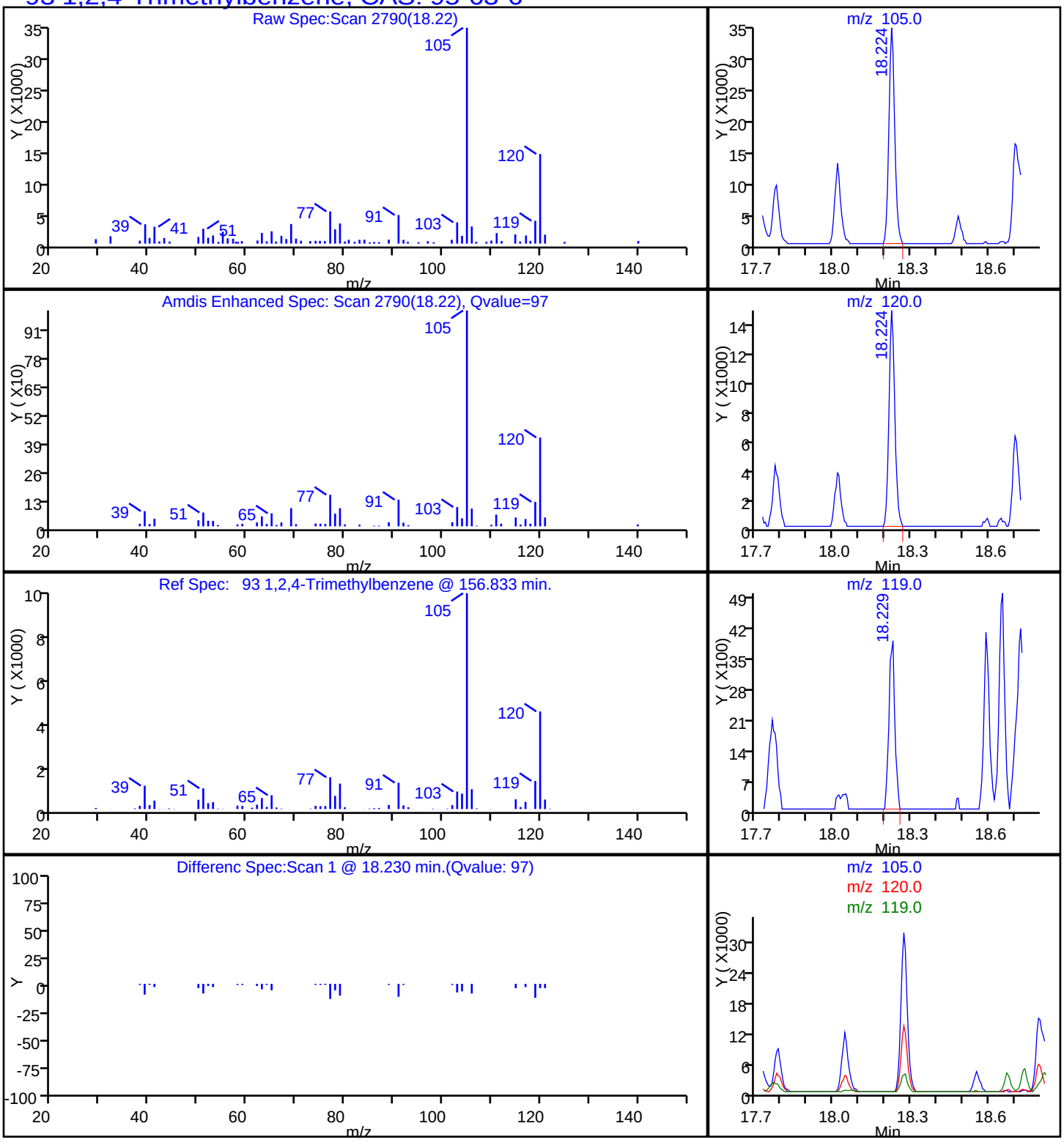
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

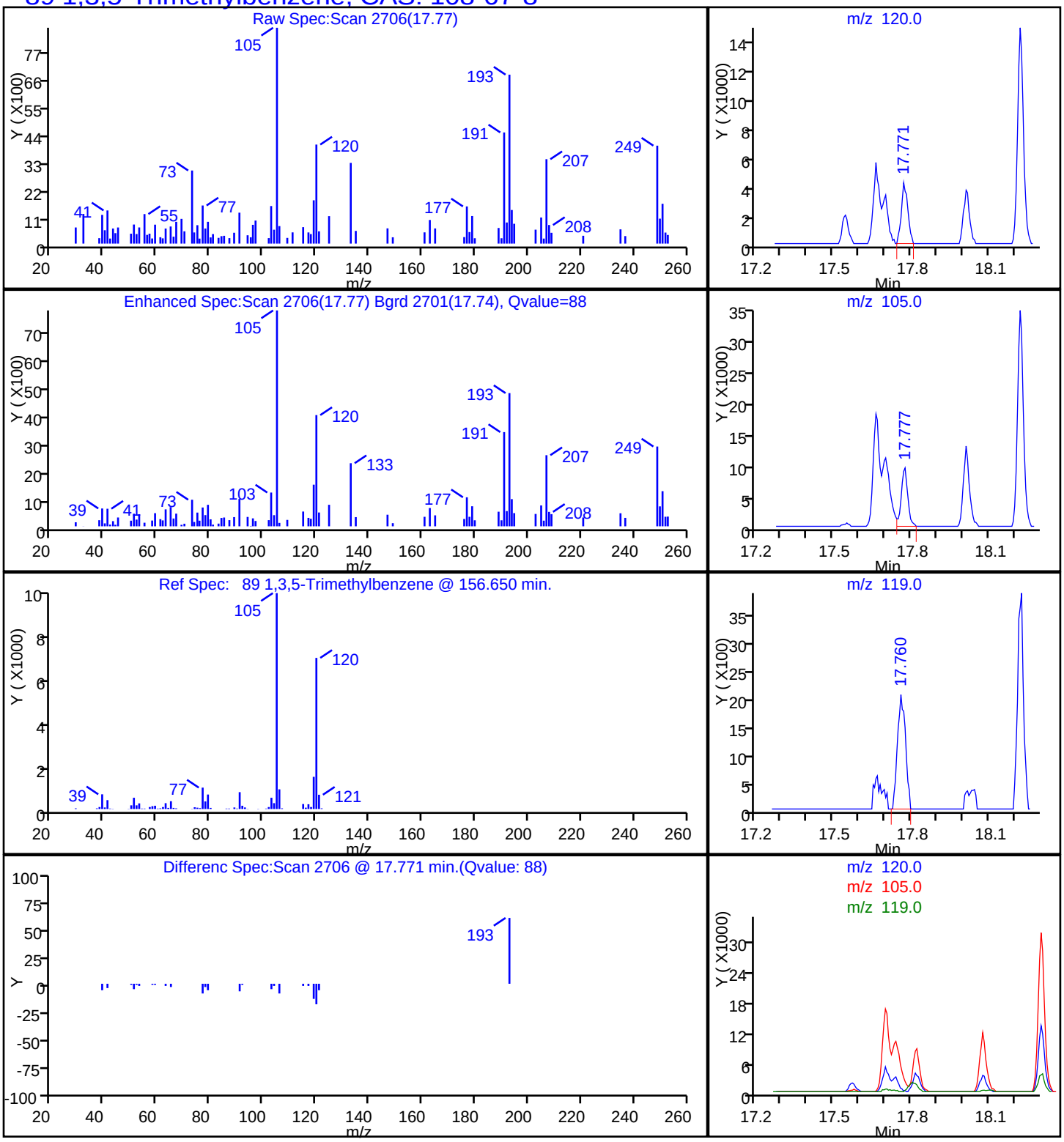
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



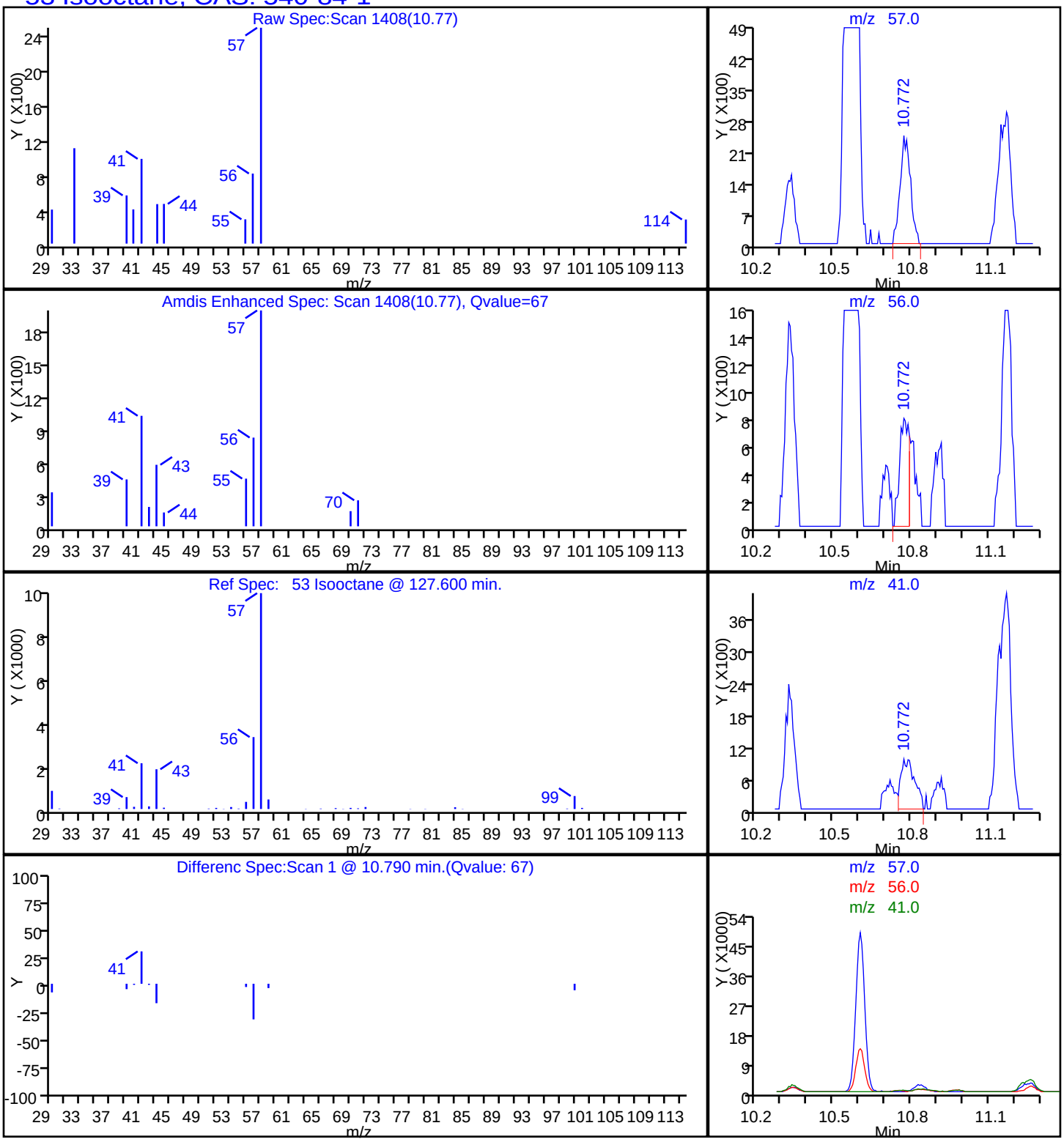
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



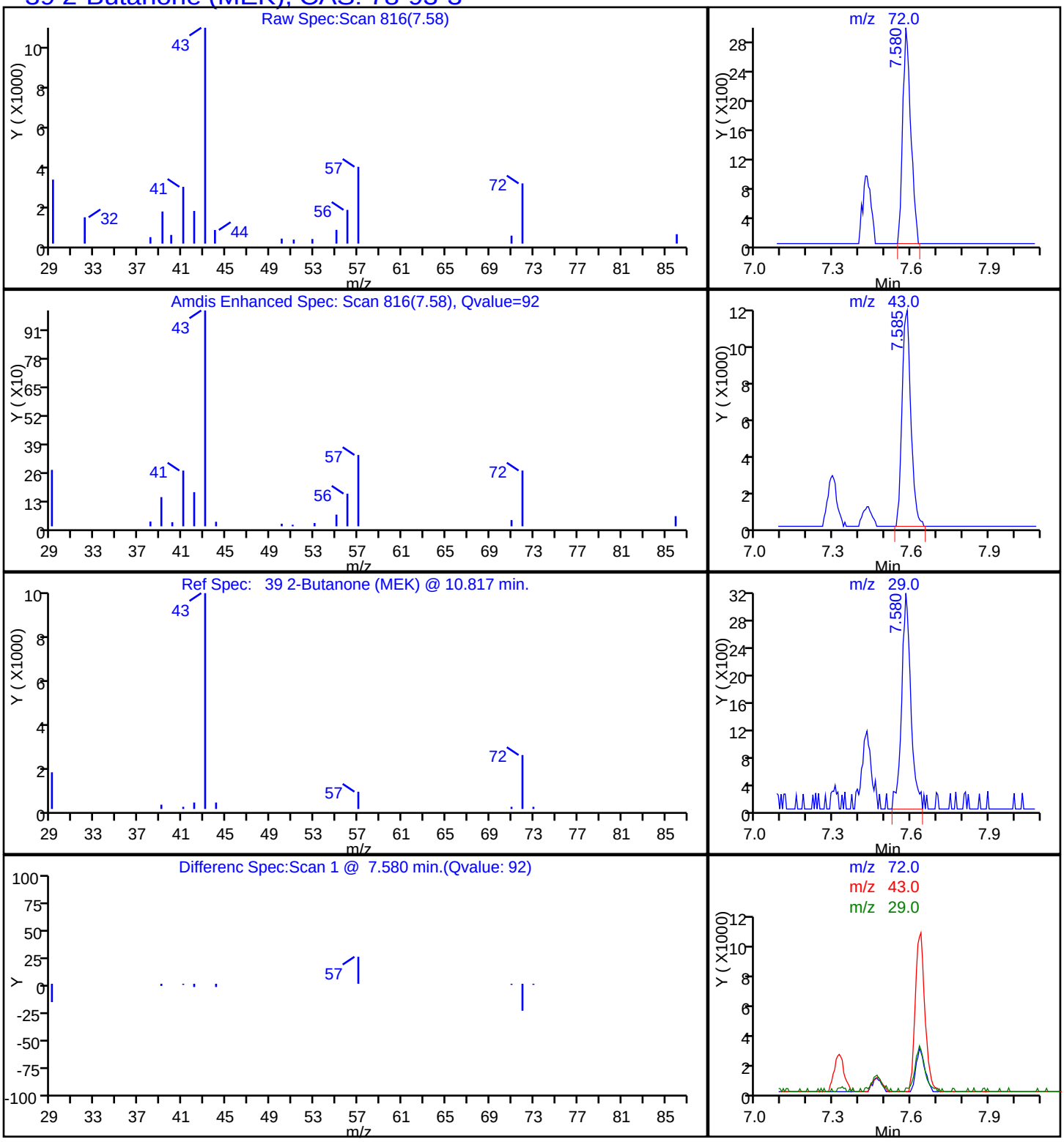
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

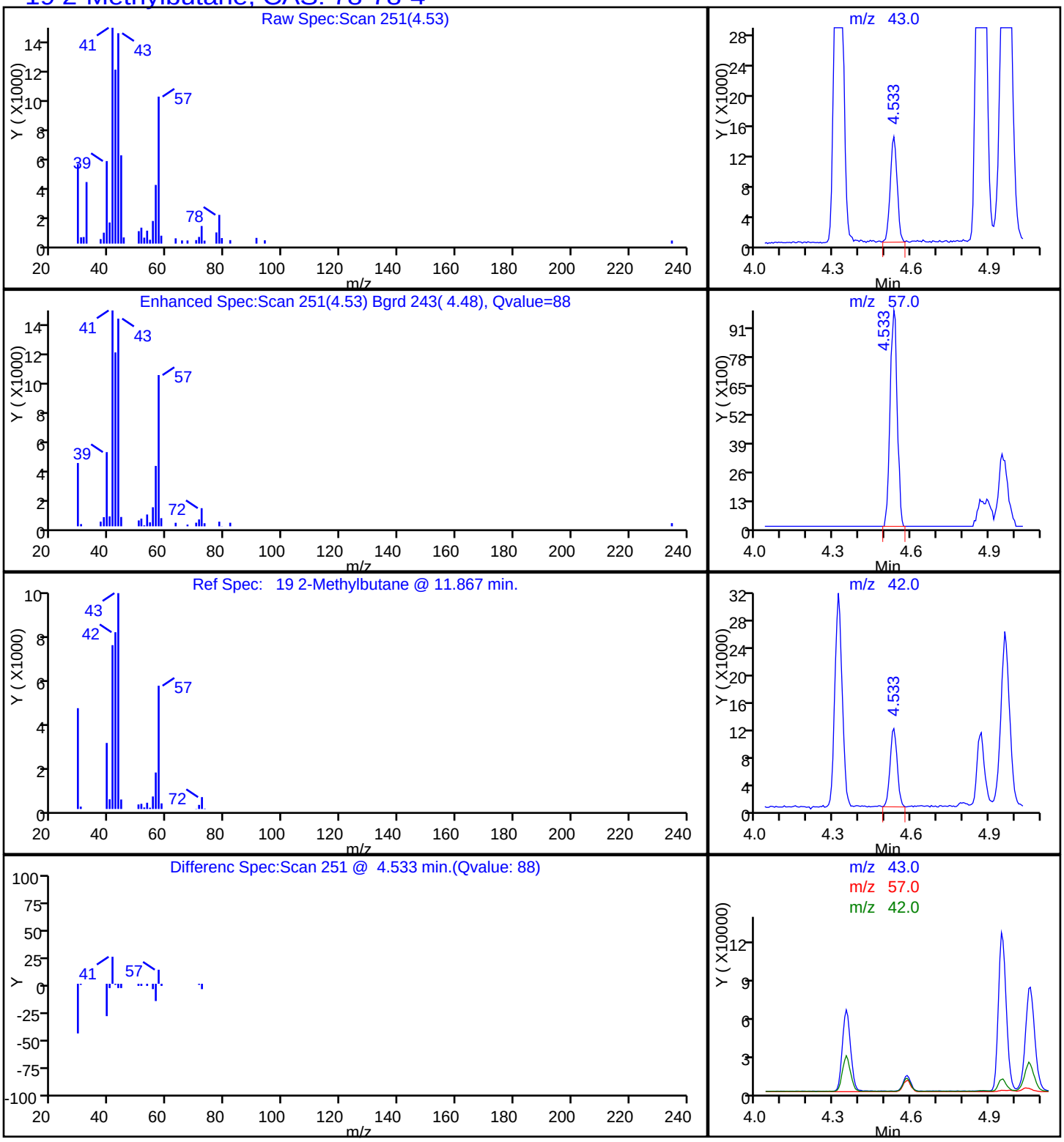
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



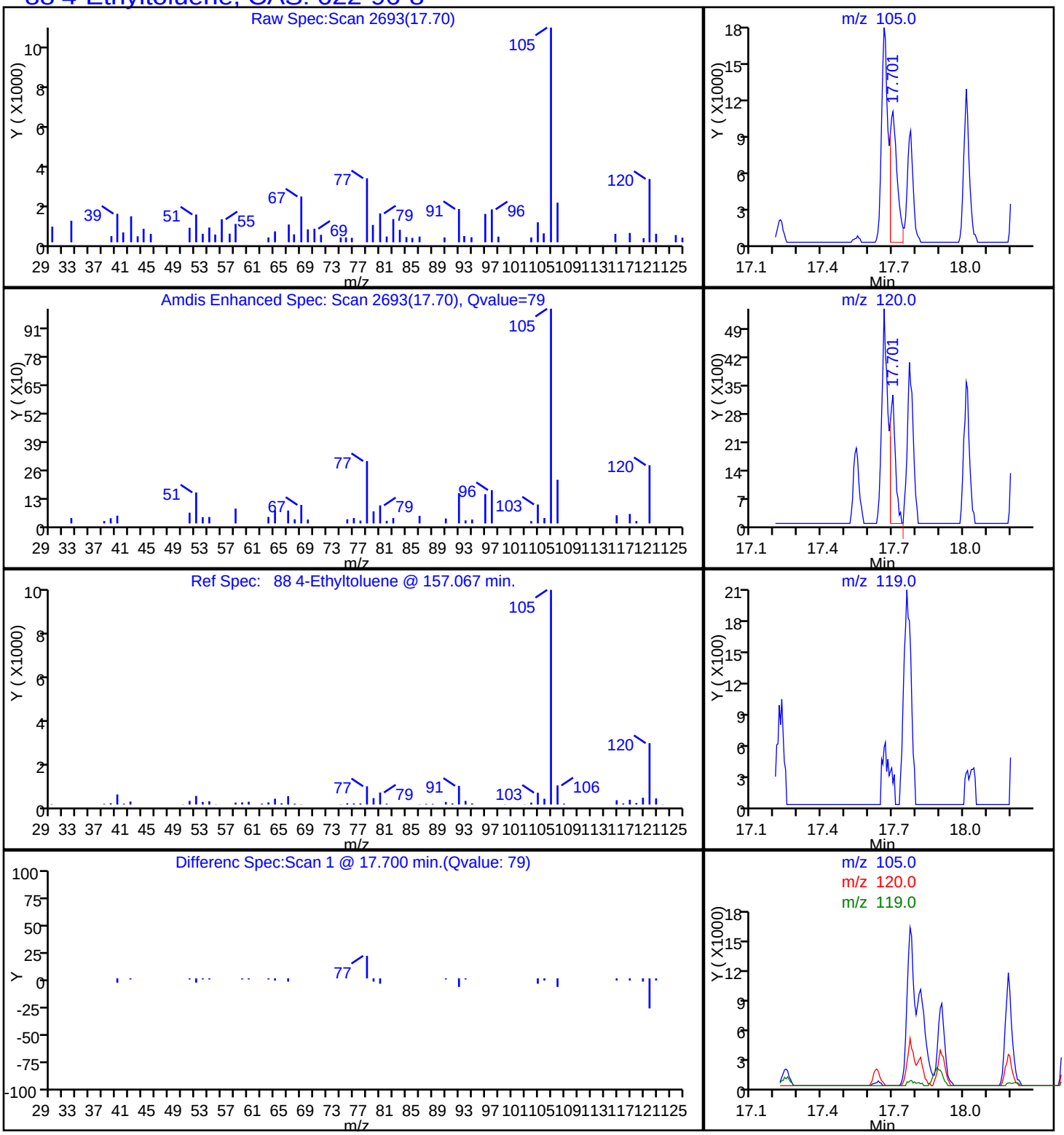
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

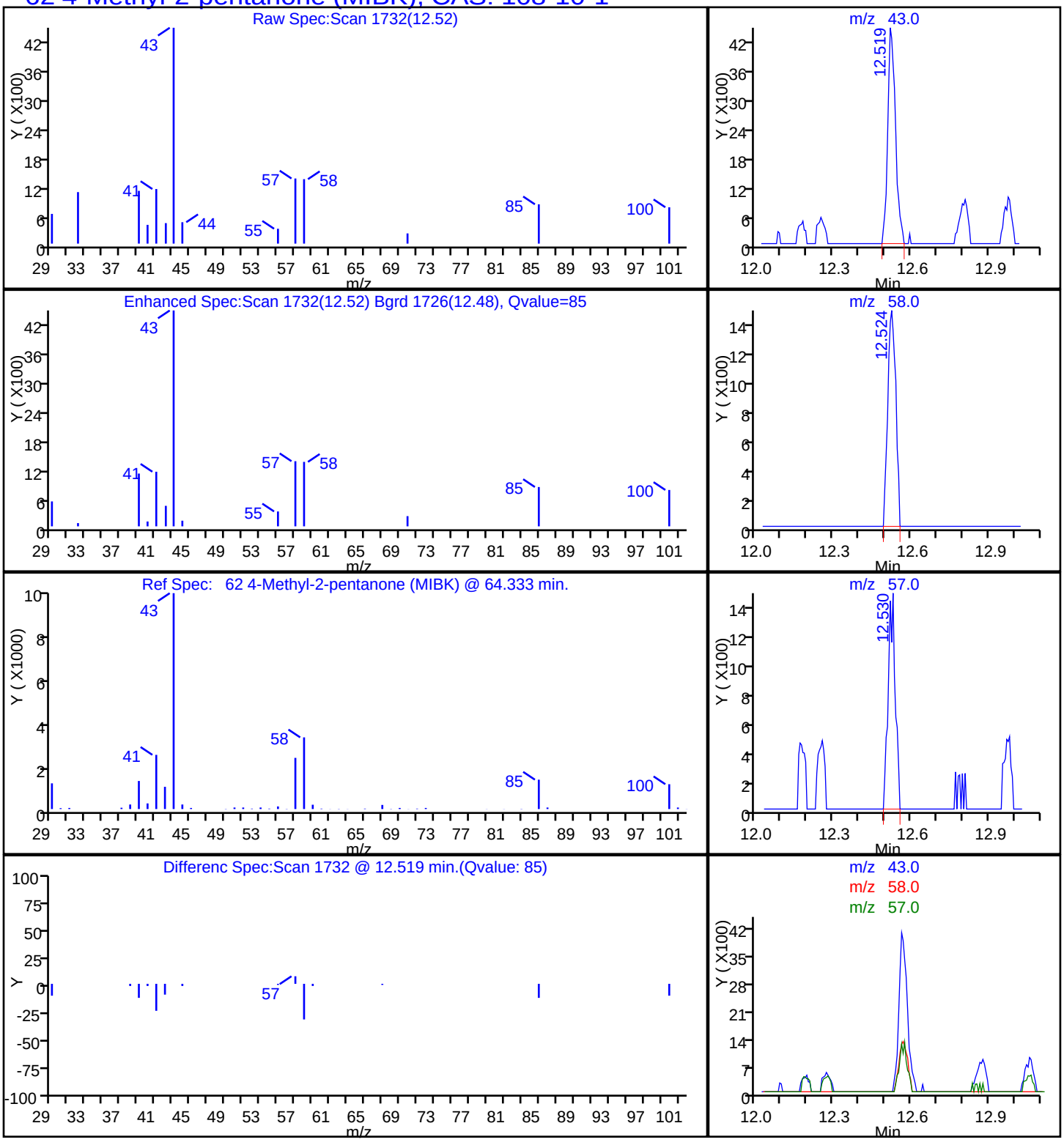
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



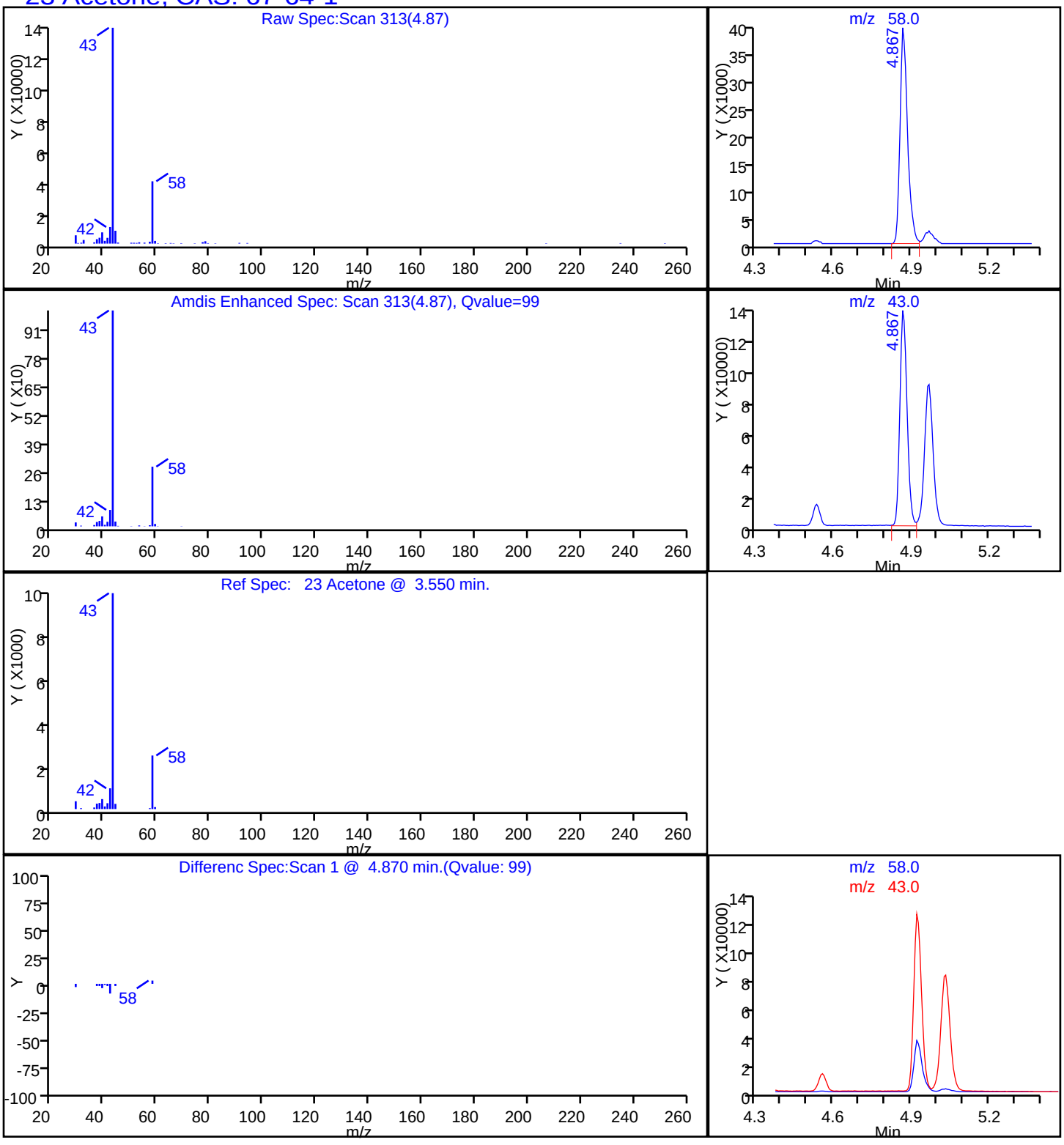
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

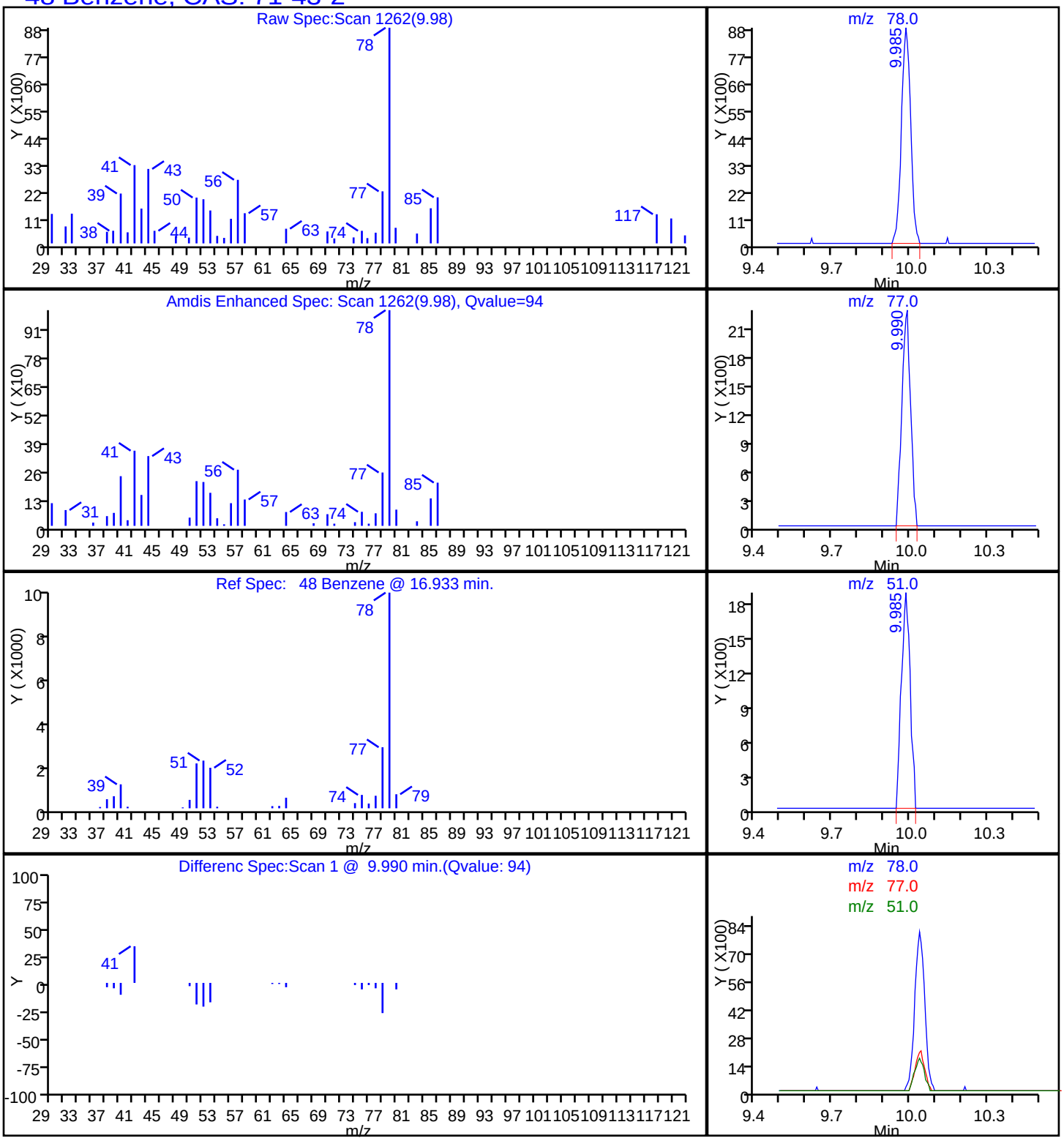
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

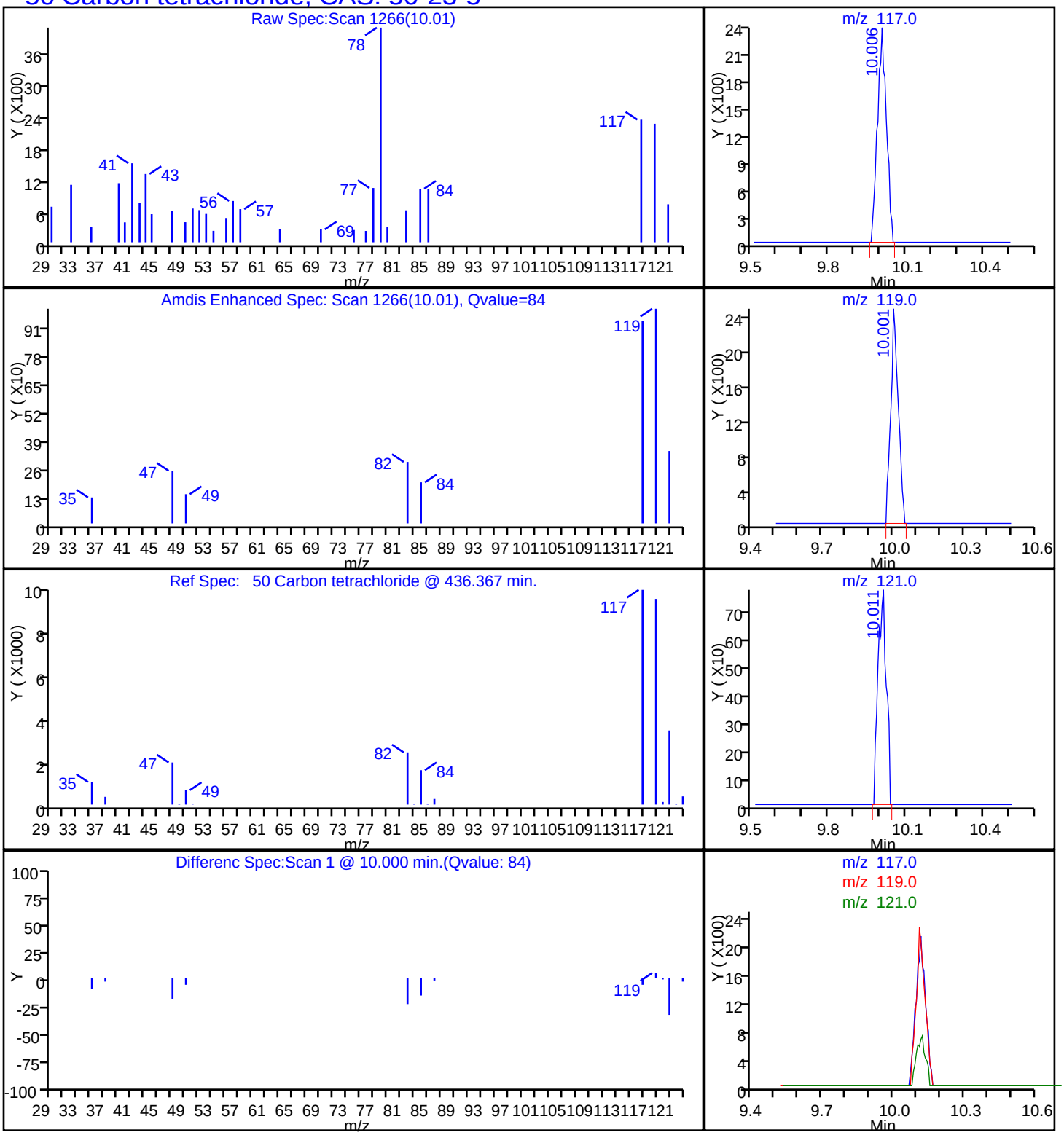
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

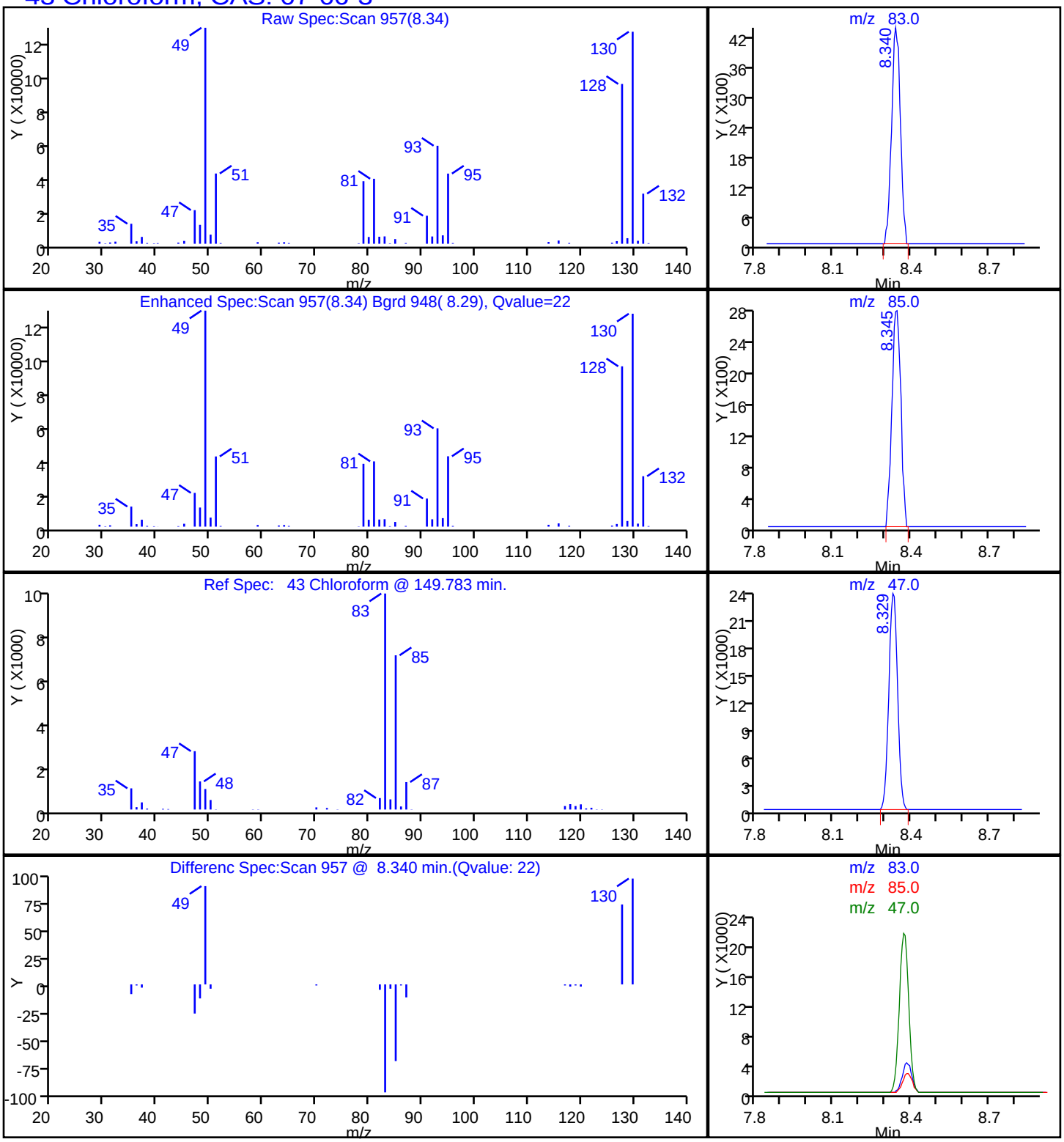
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

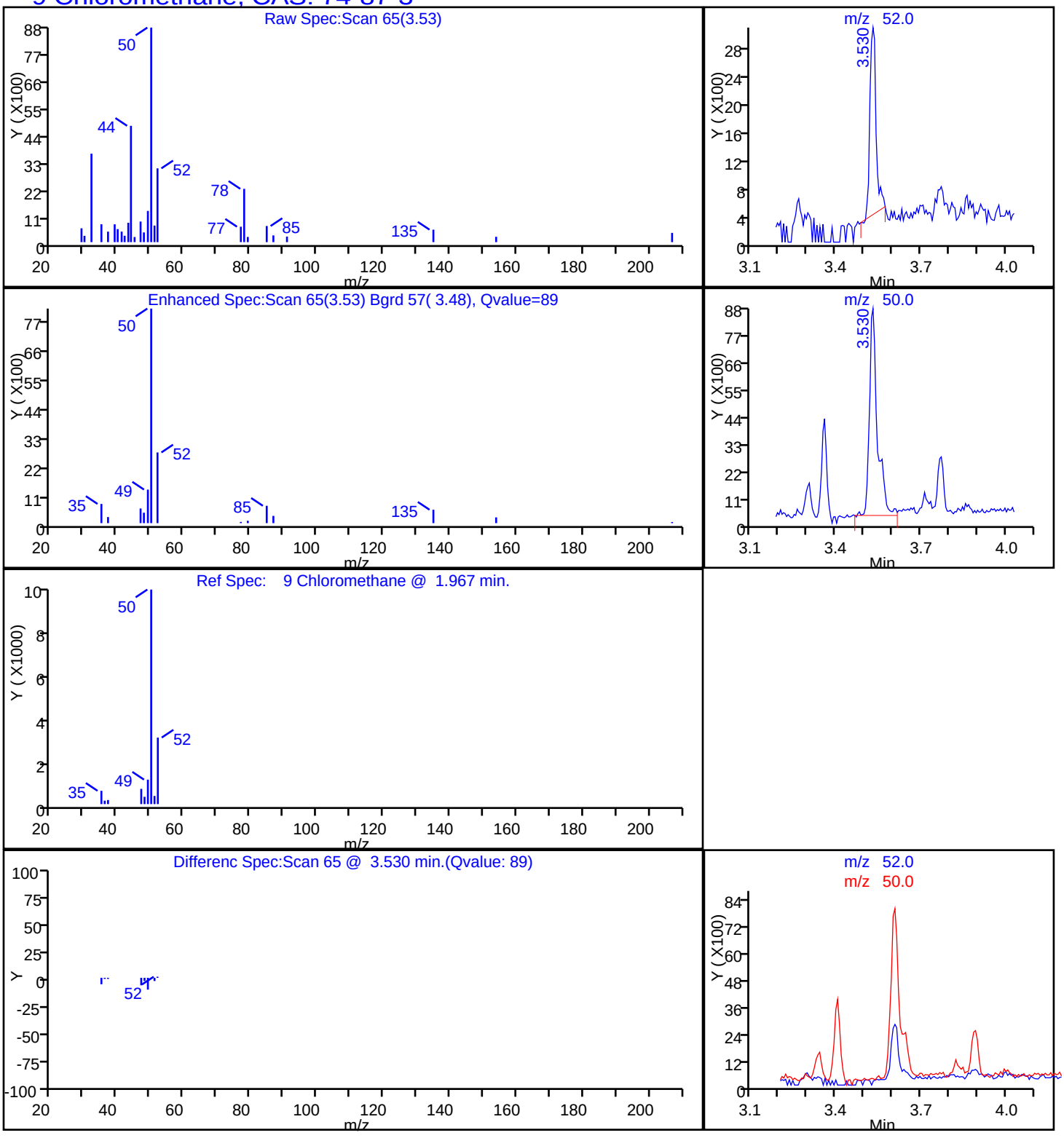
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



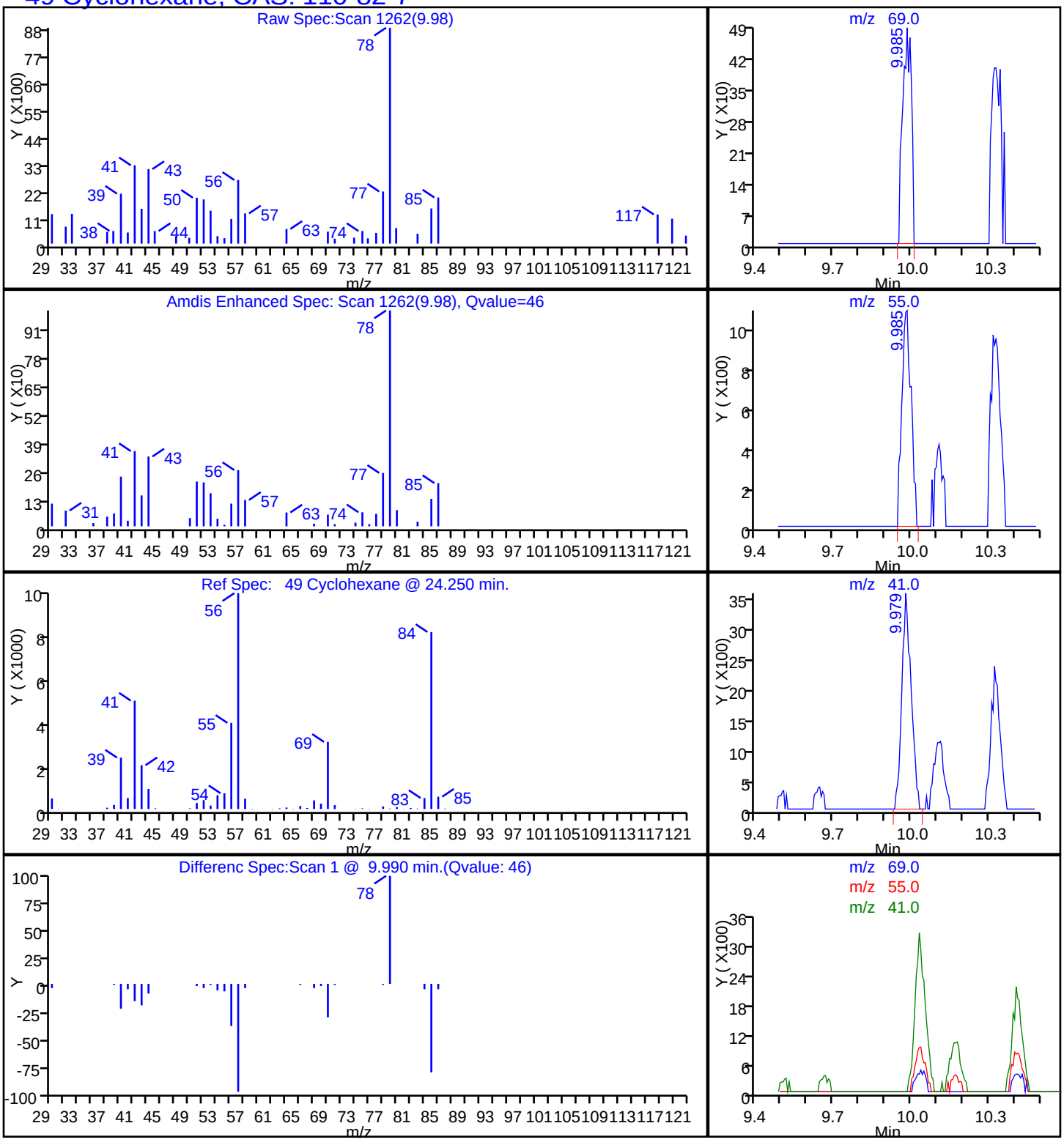
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

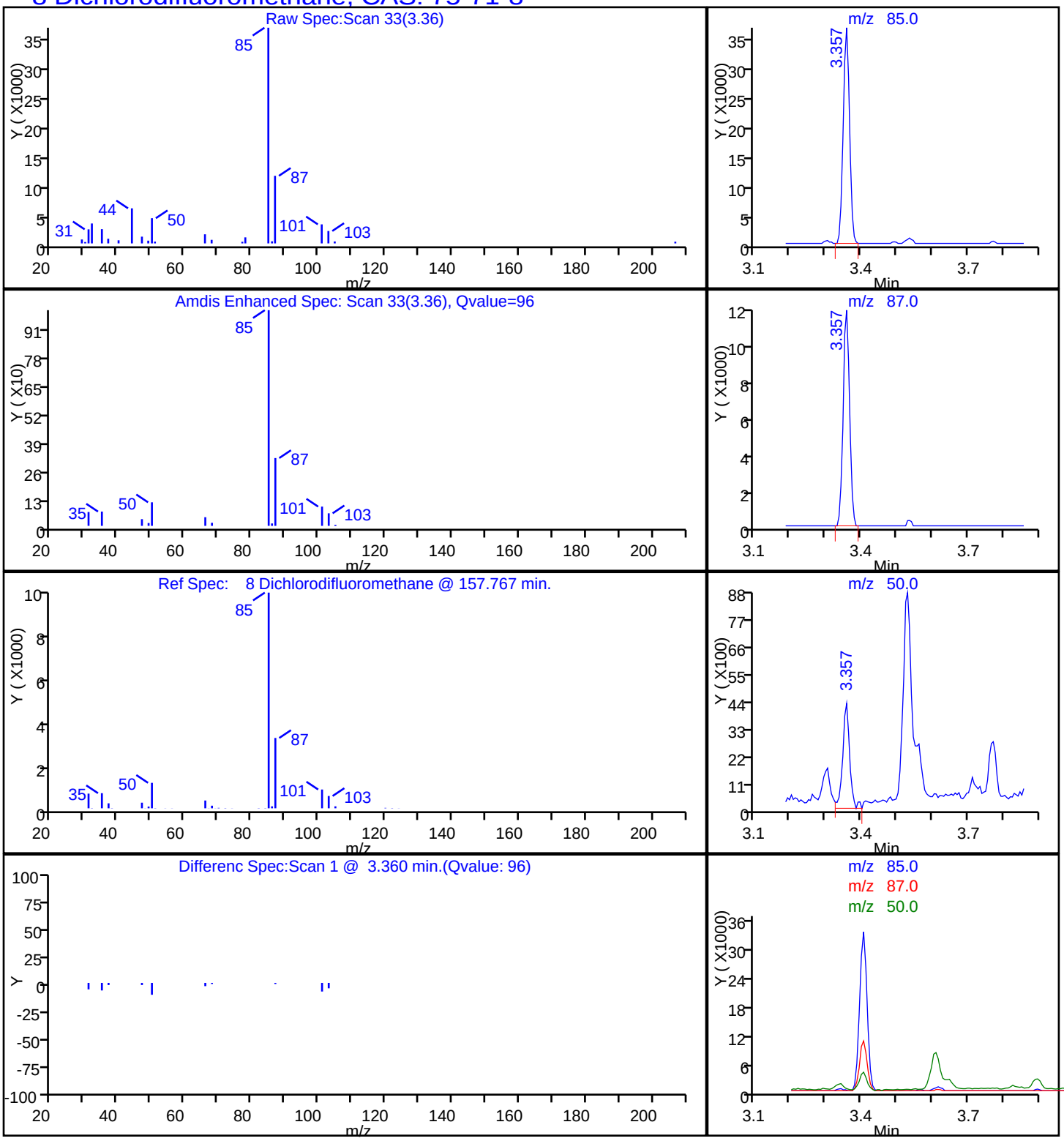
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D				
Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



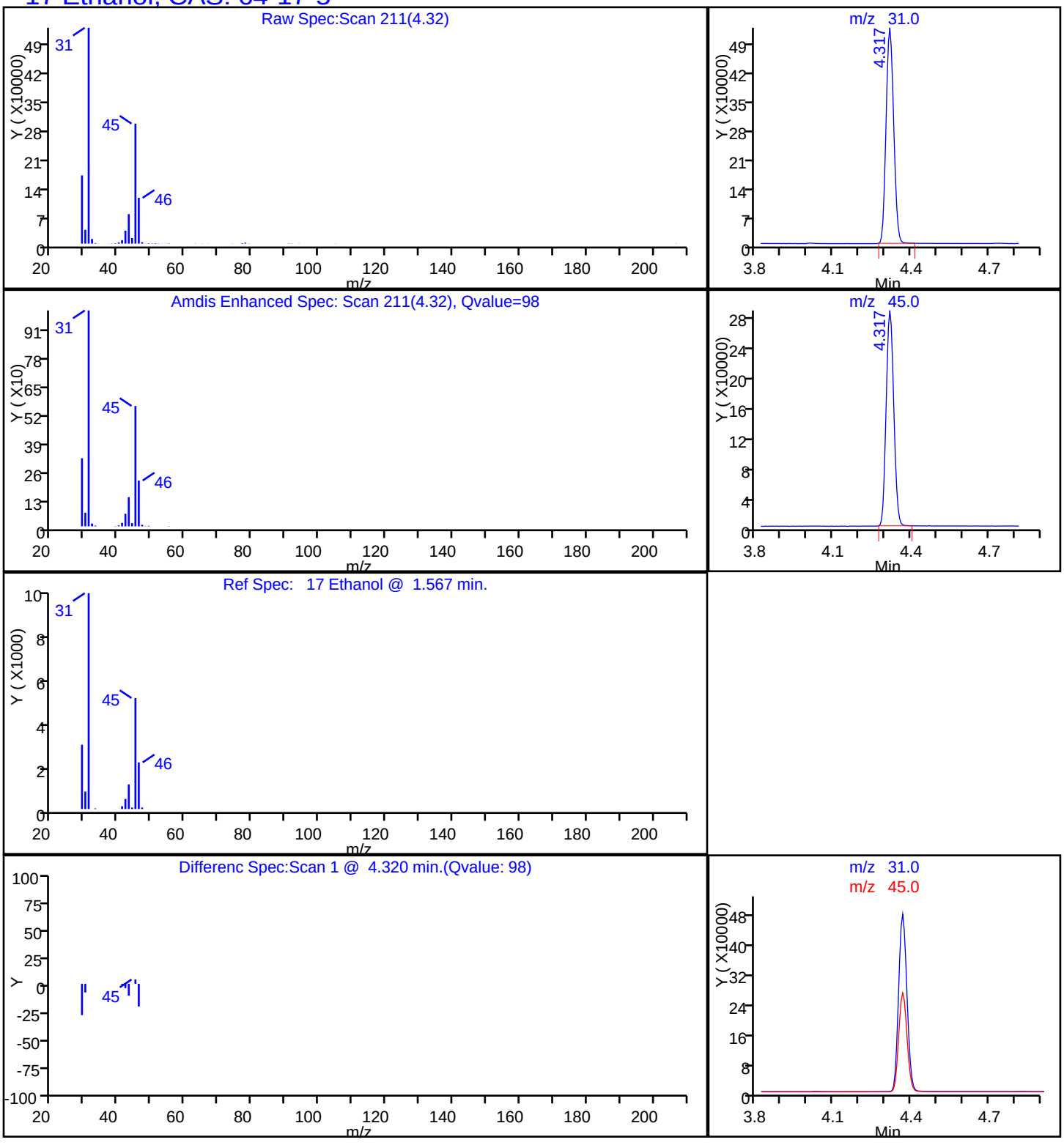
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



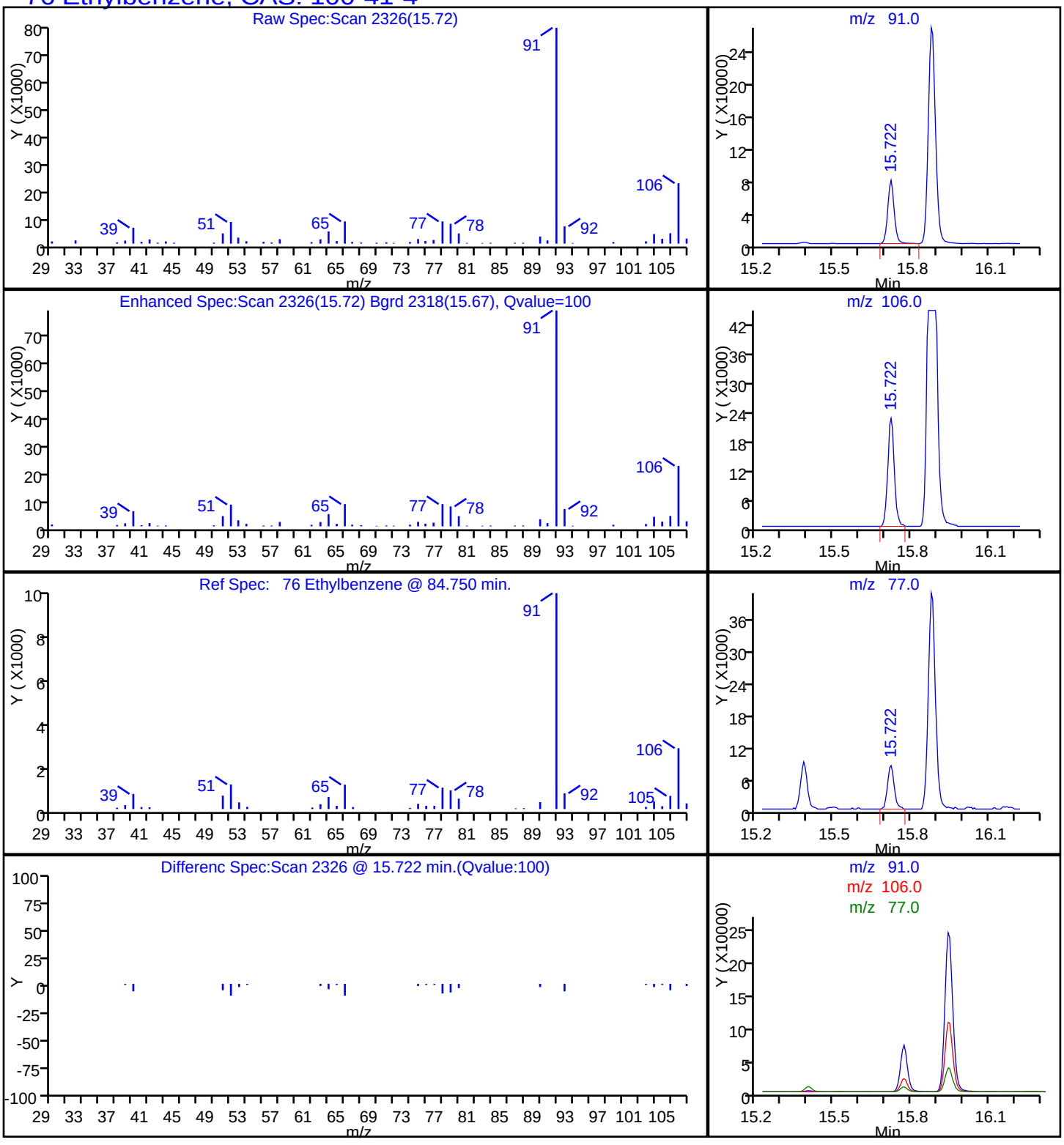
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



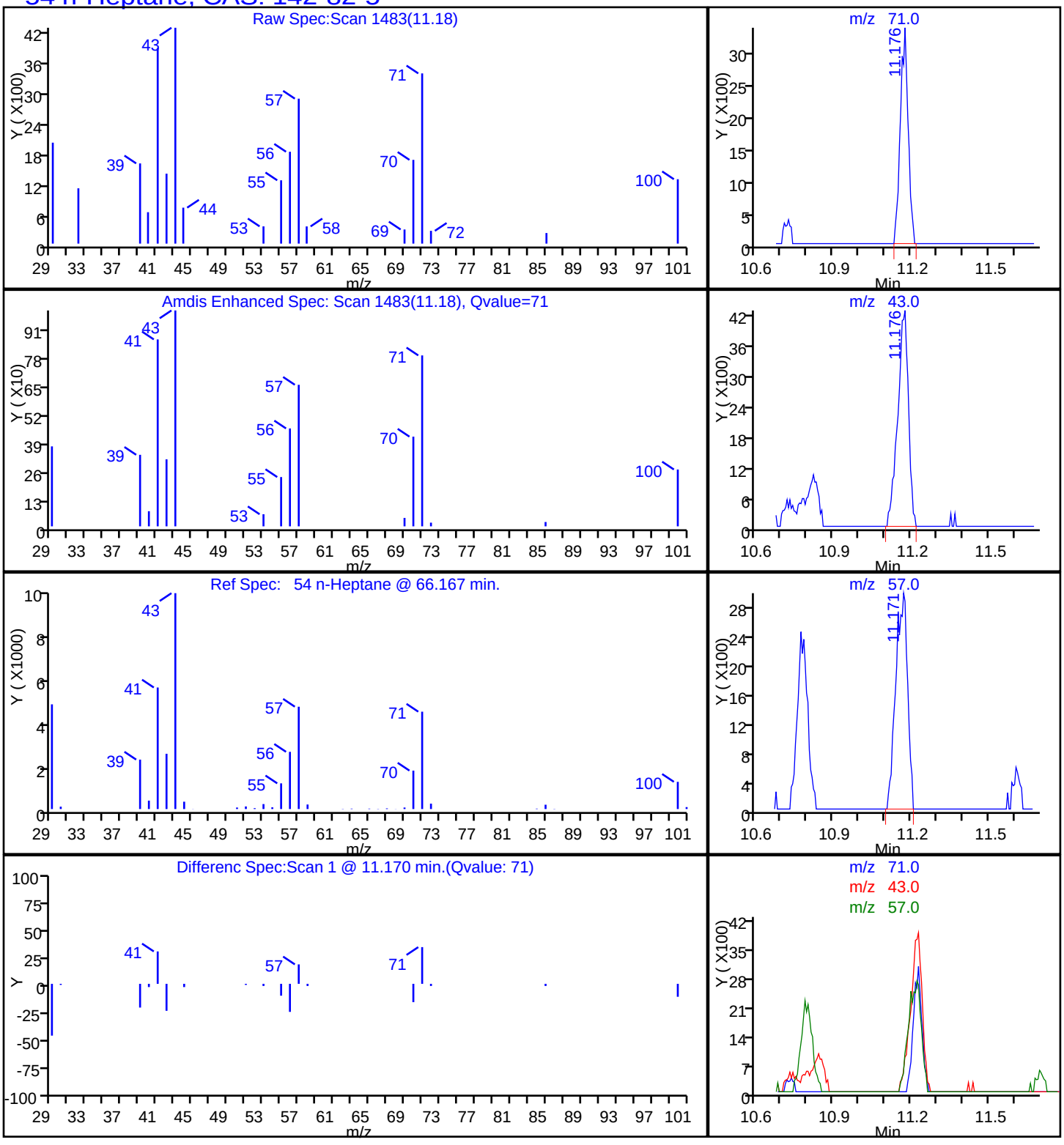
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



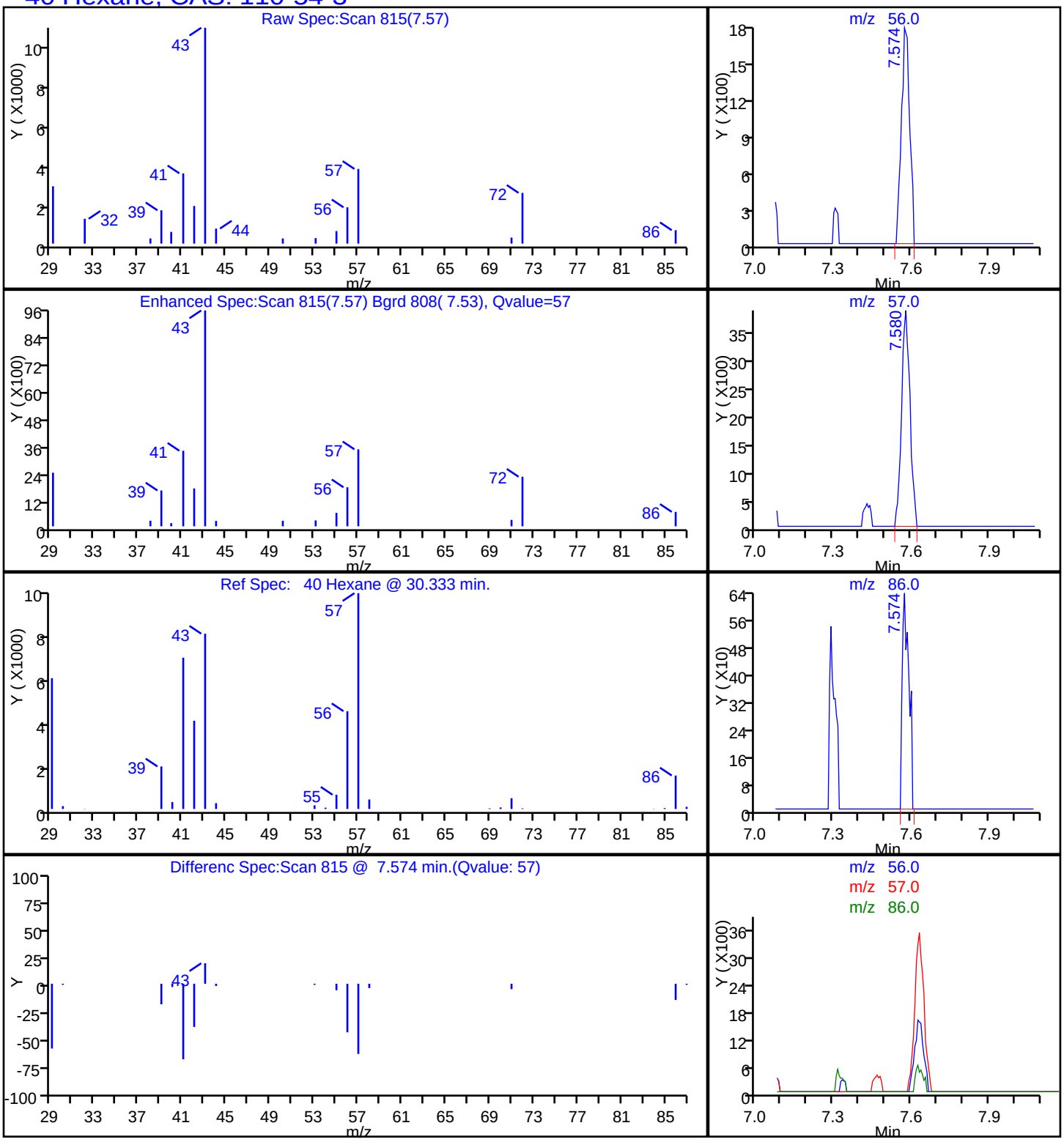
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

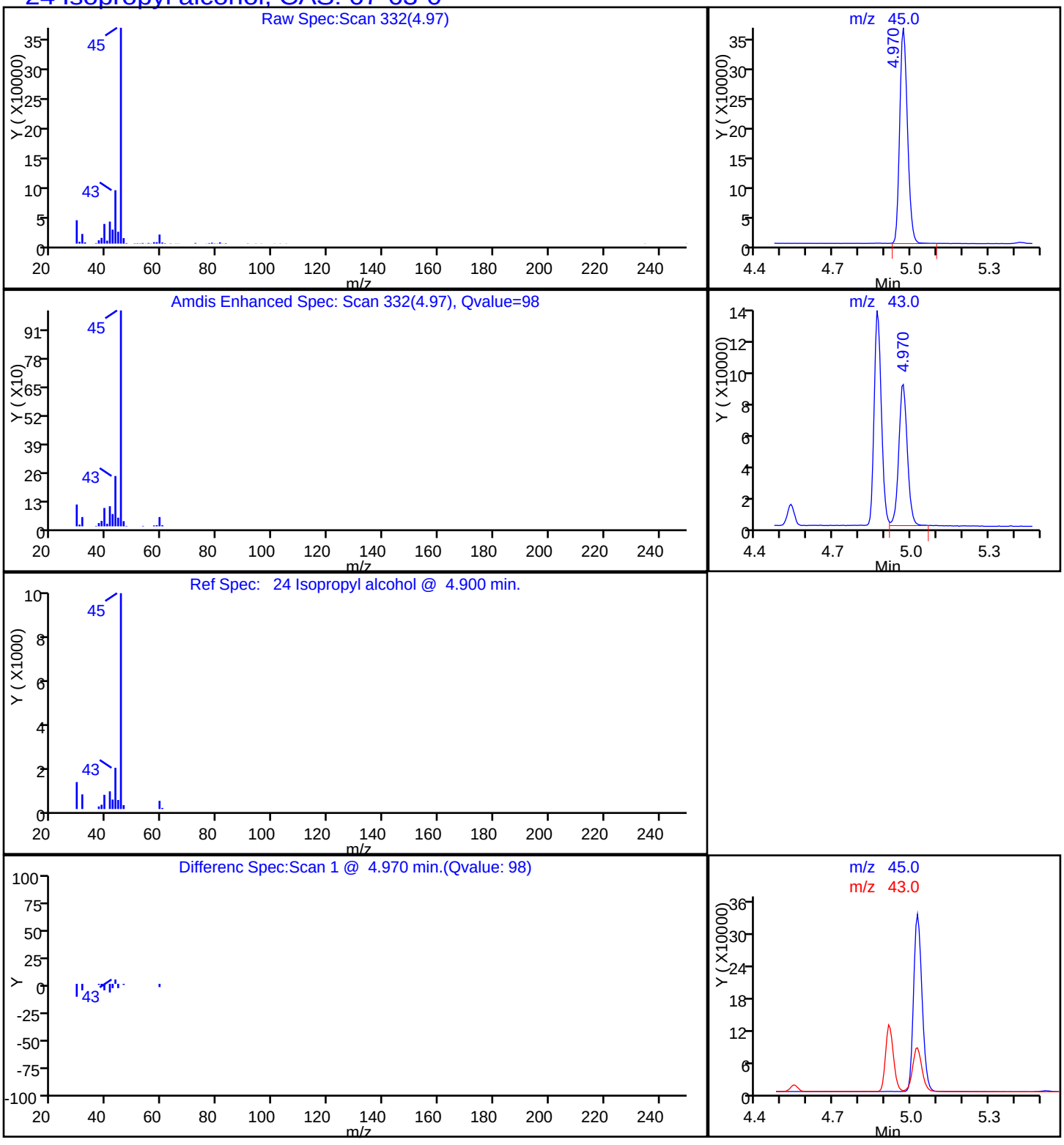
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



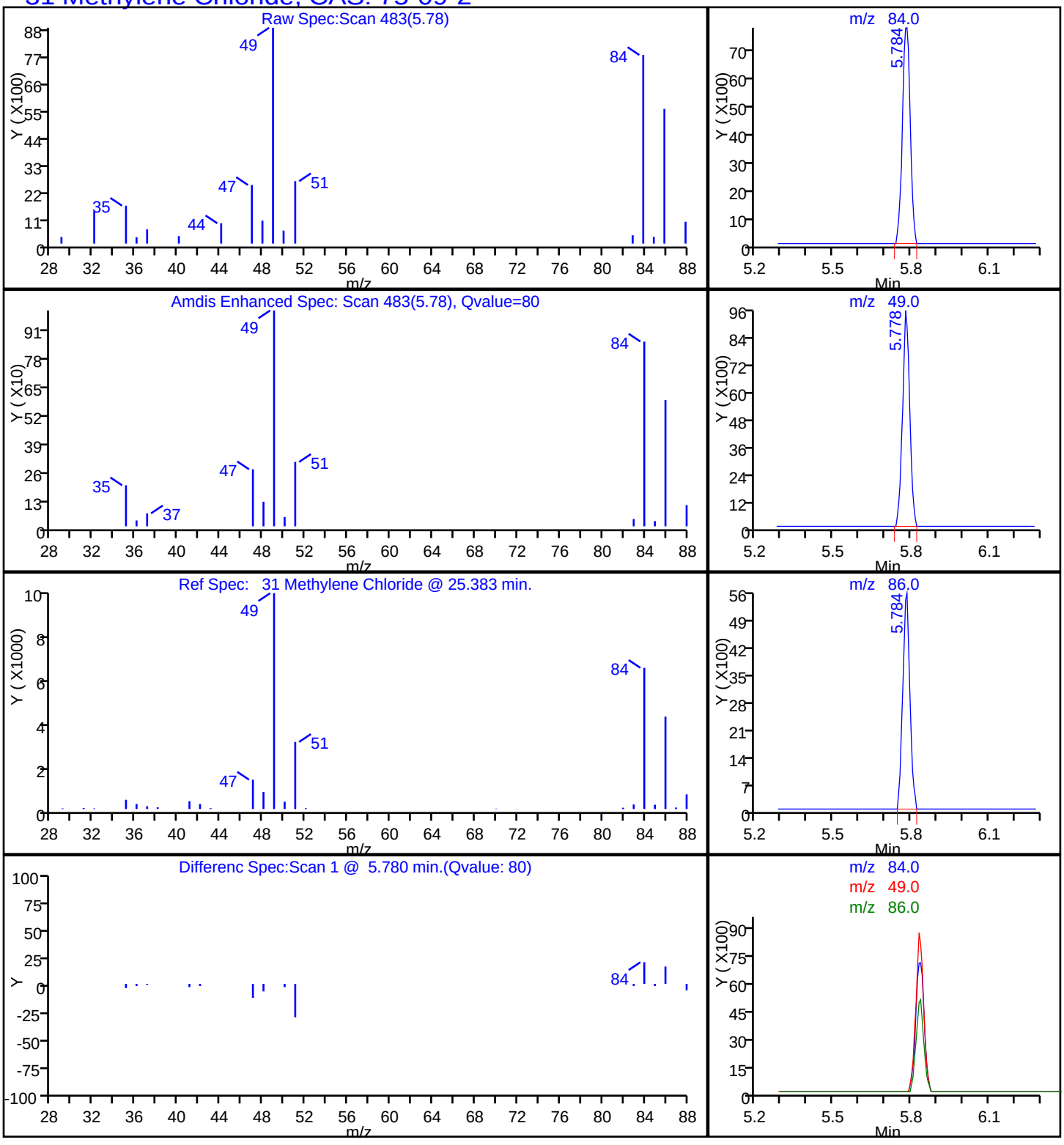
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

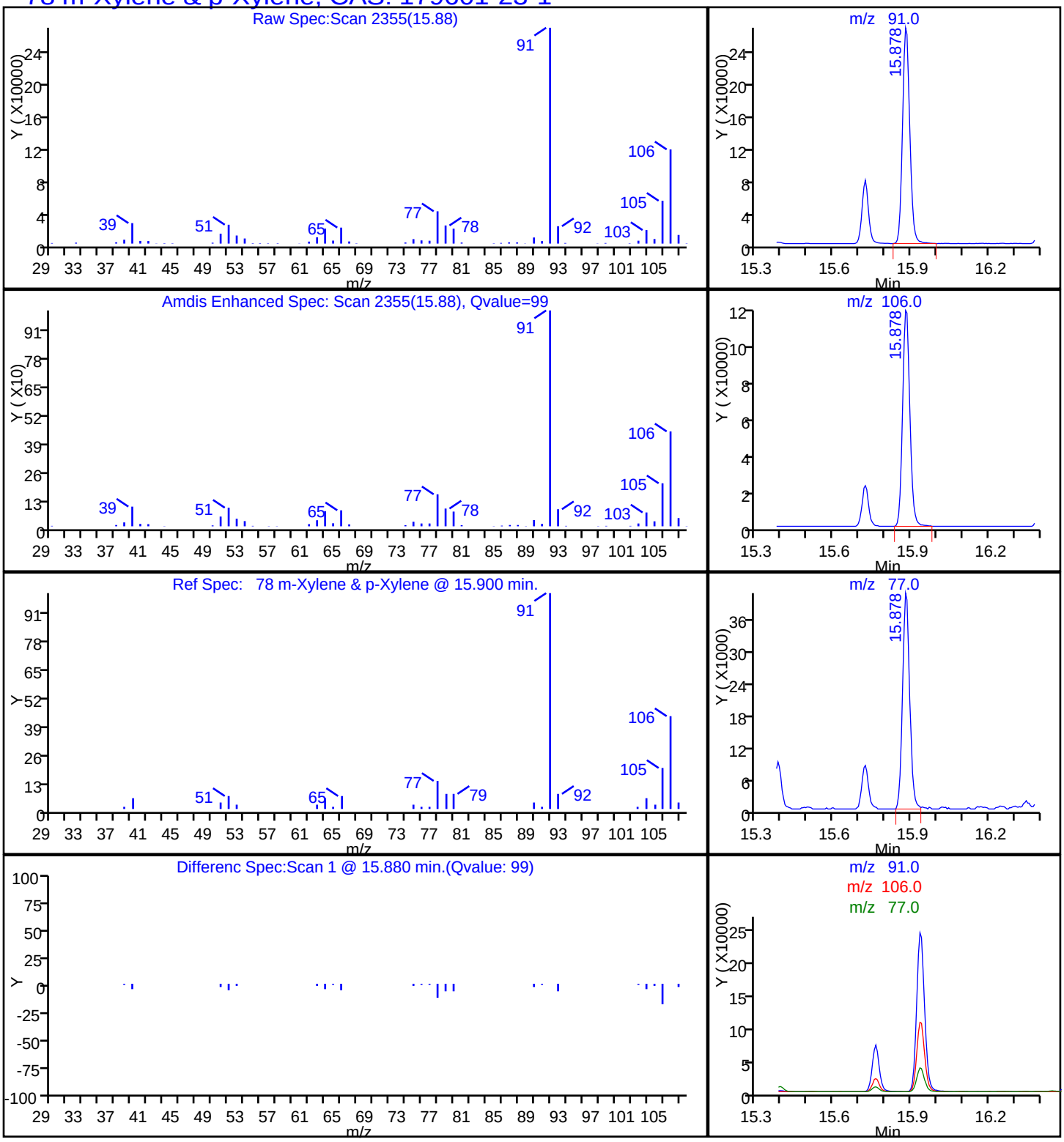


Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D				
Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



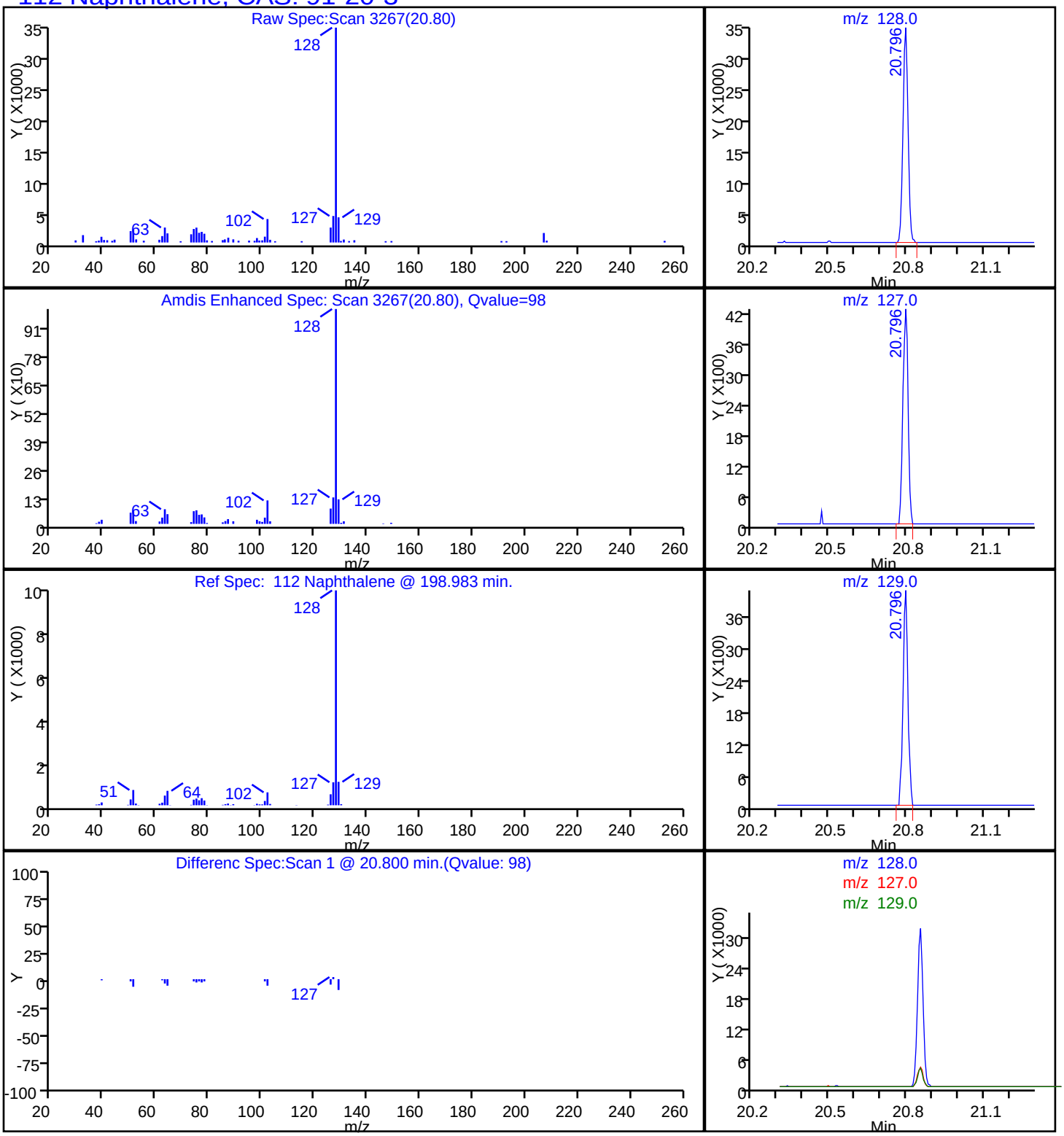
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

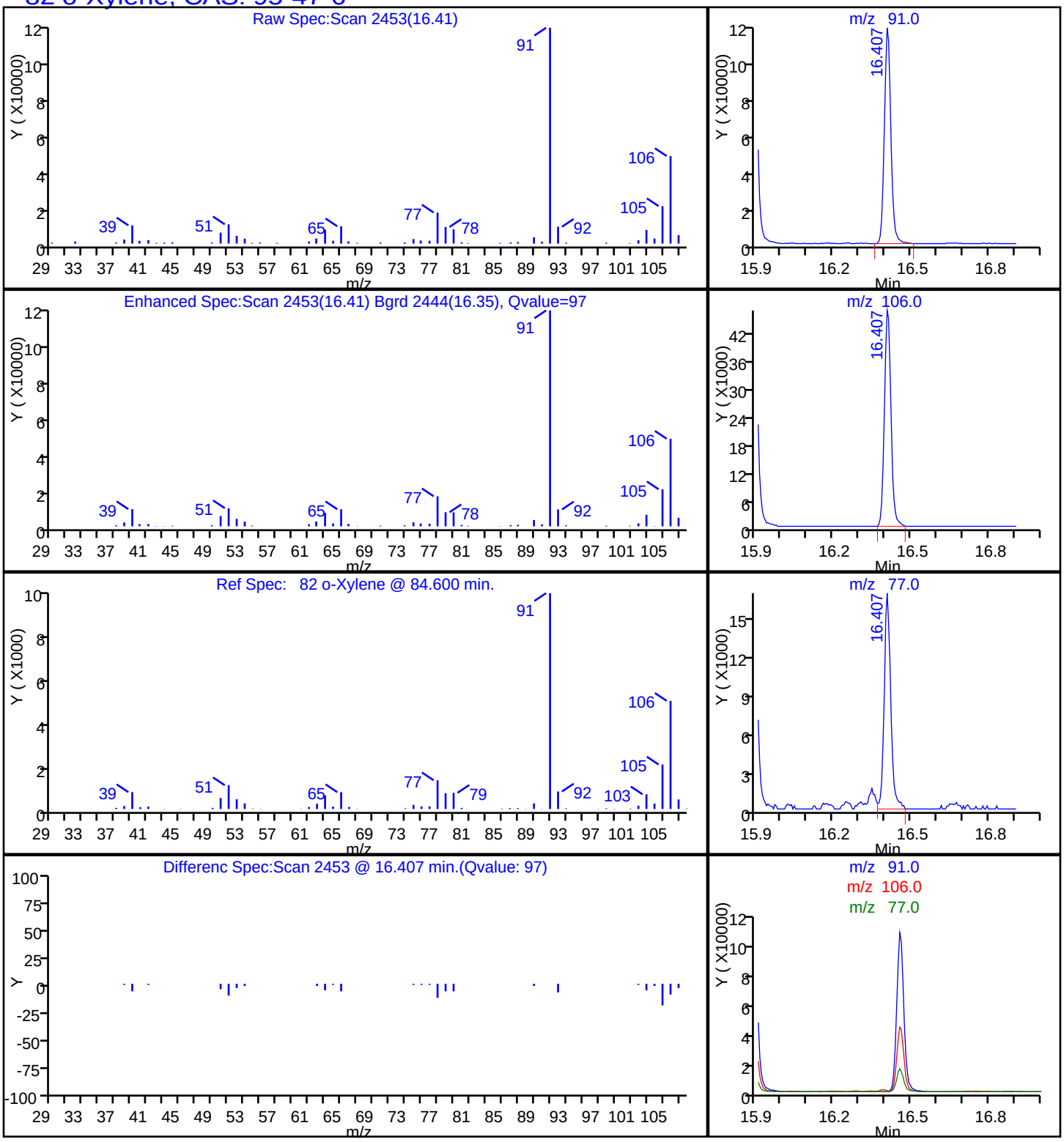
112 Naphthalene, CAS: 91-20-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D				
Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

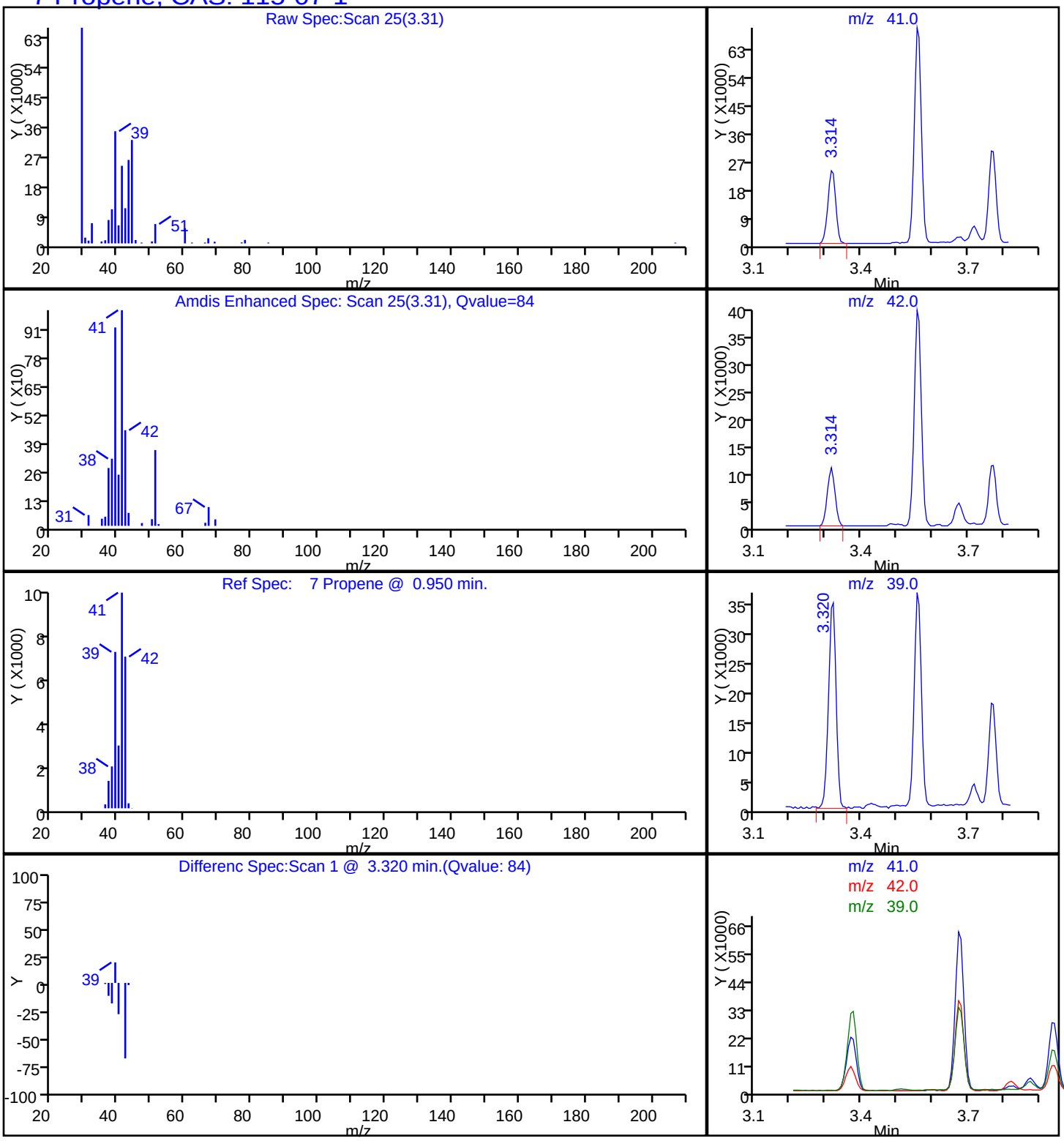
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



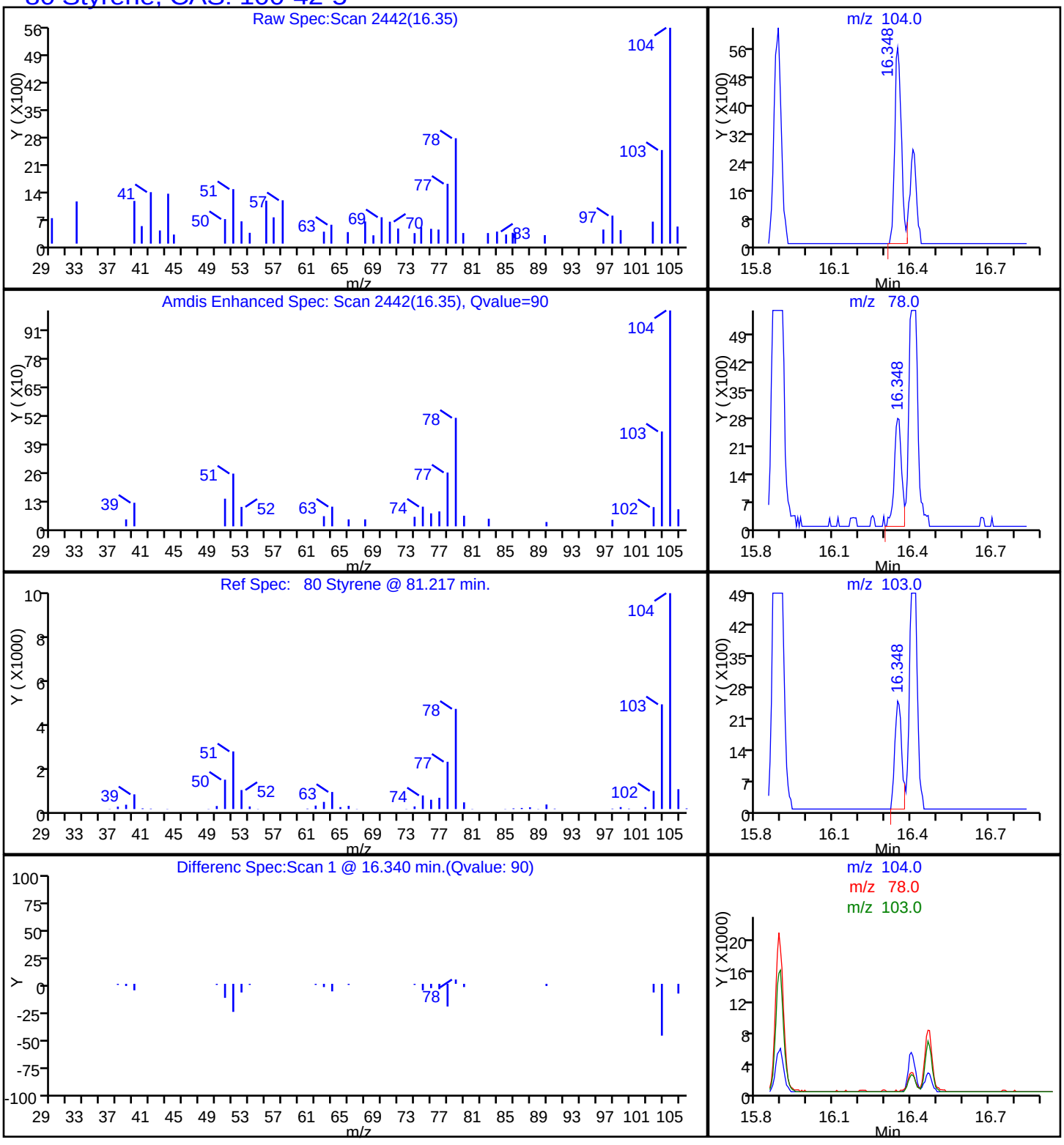
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date: 13-Mar-2014 21:59:30 Instrument ID: ME

Lims ID: 140-1037-A-4 Lab Sample ID: 140-1037-4

Client ID: PCV-IALC-B10

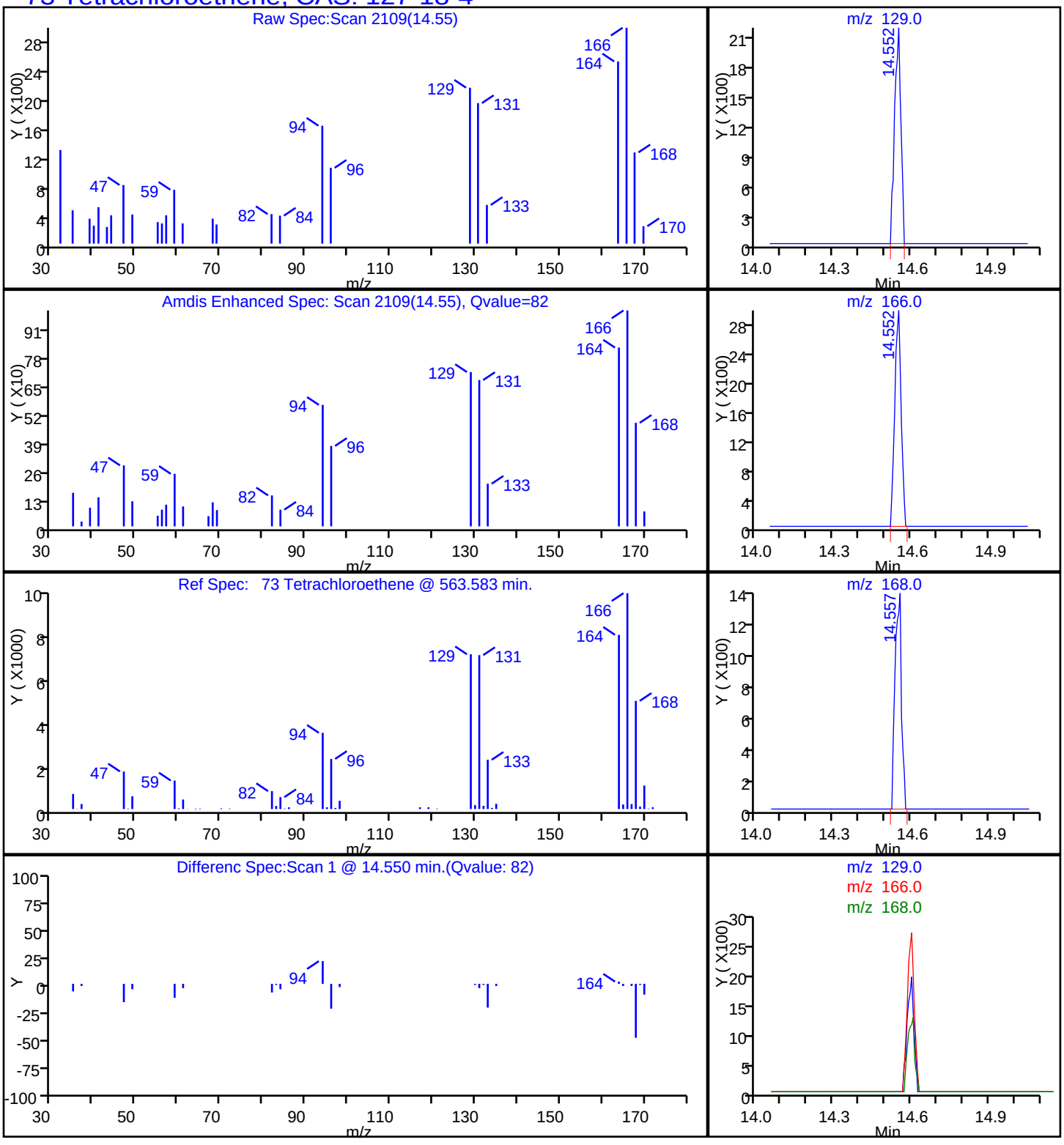
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



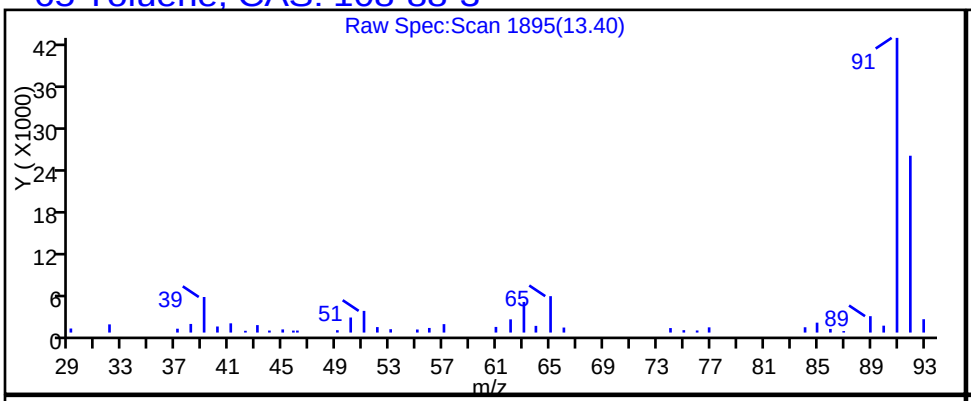
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

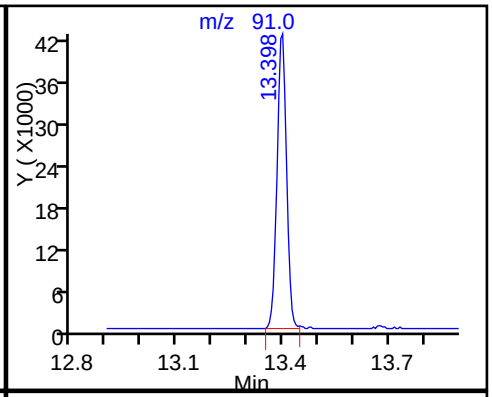
TestAmerica Knoxville

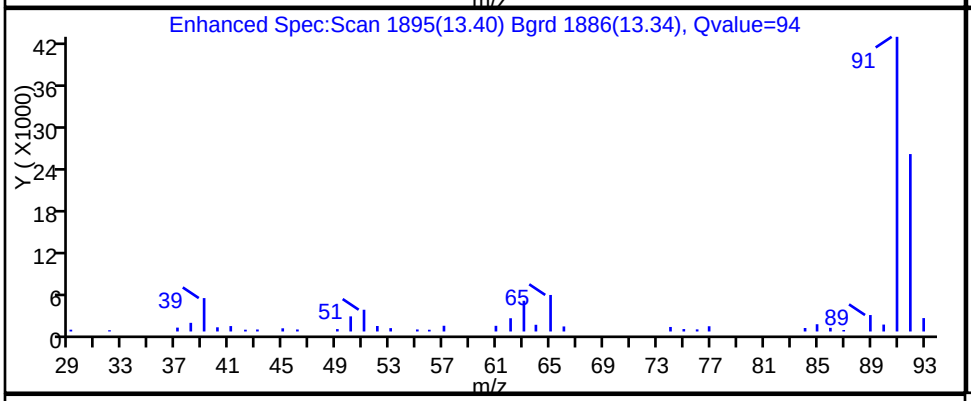
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

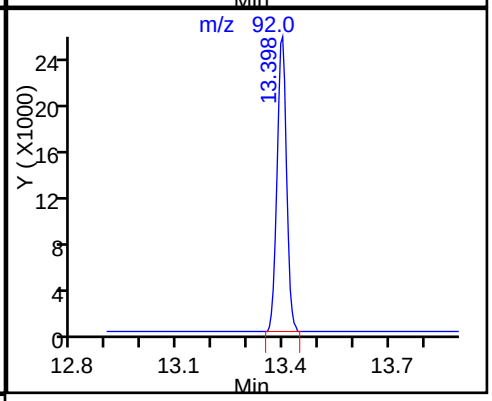
Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME		
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4		
Client ID:	PCV-IALC-B10				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

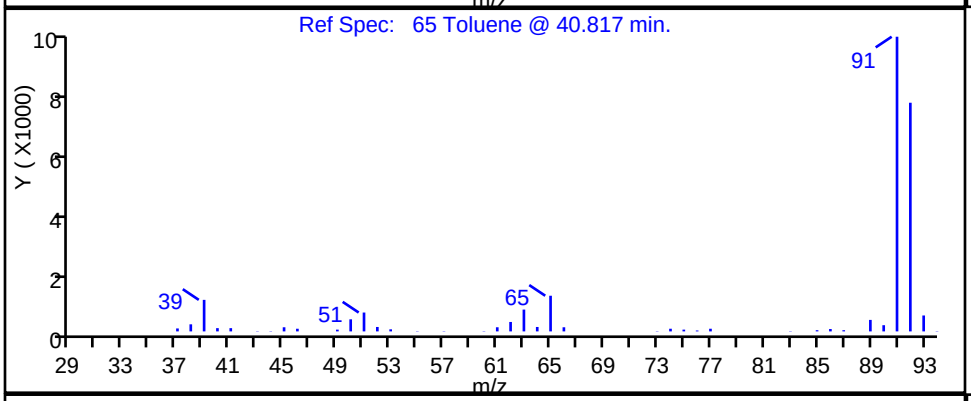
65 Toluene, CAS: 108-88-3

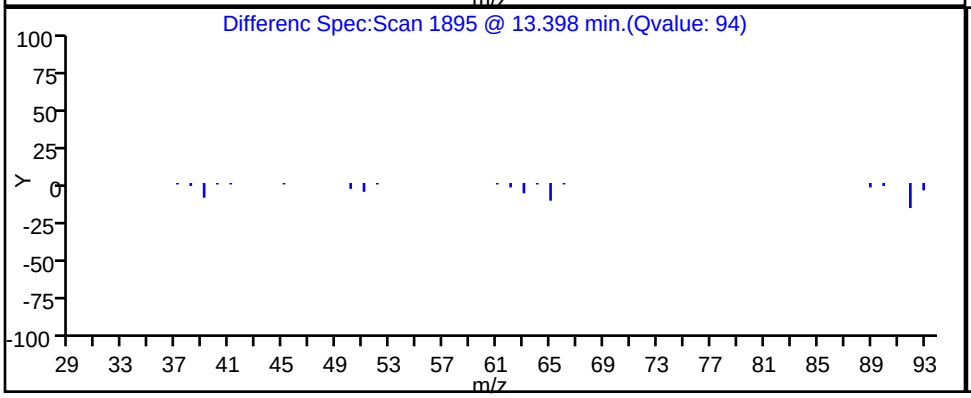


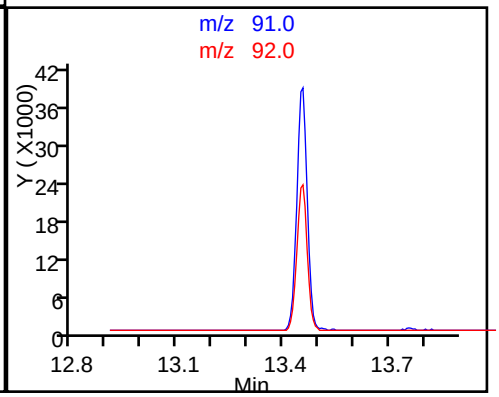












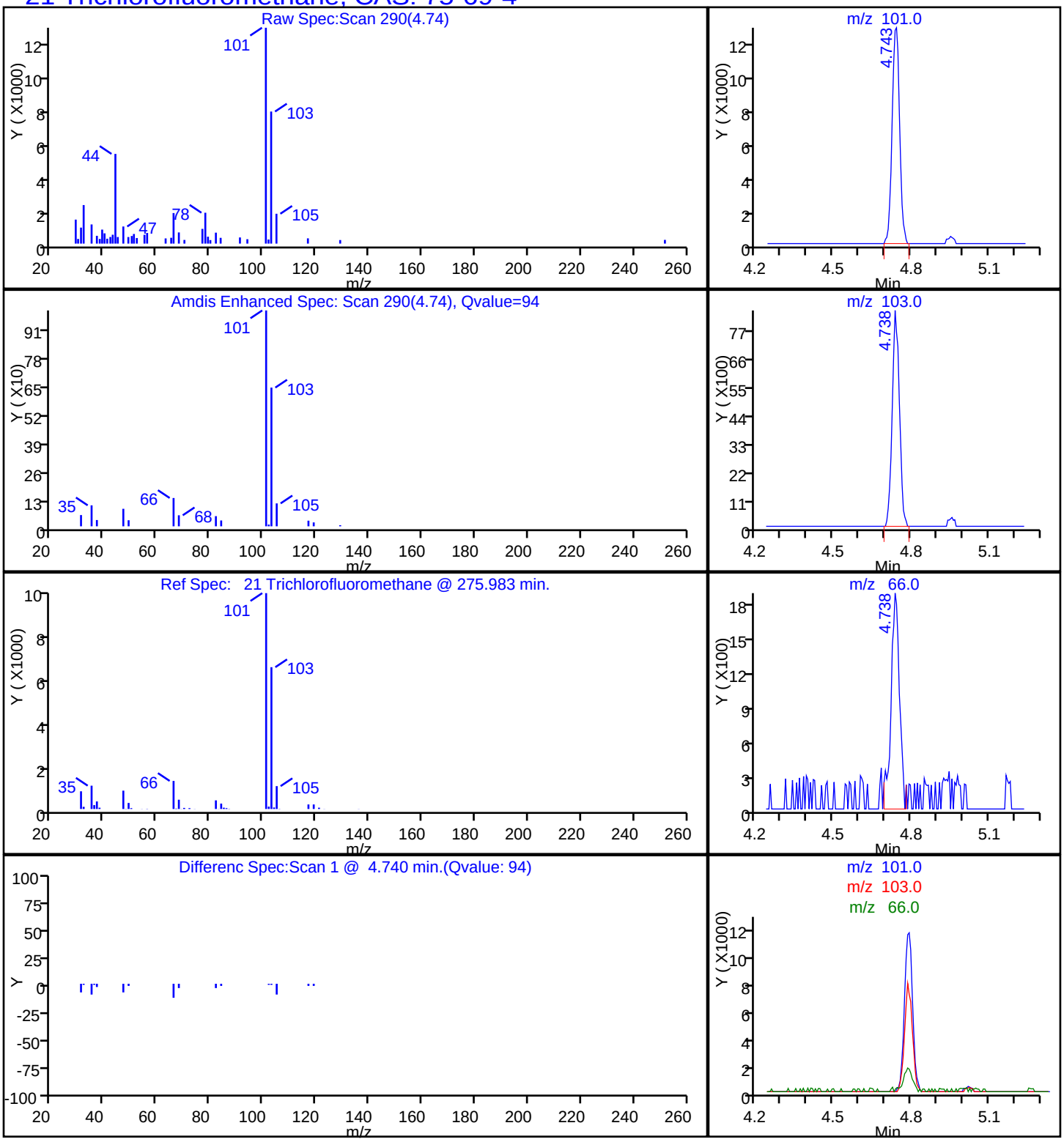
Report Date: 14-Mar-2014 07:24:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P110.D

Injection Date:	13-Mar-2014 21:59:30	Instrument ID:	ME
Lims ID:	140-1037-A-4	Lab Sample ID:	140-1037-4
Client ID:	PCV-IALC-B10		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.21	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.61		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.061	J	0.50	0.045
67-64-1	Acetone	58.08	1.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.21		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.062	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.049	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.89	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.52		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.052	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.19	J	0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.23		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.61	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.25	J	2.0	0.18
67-64-1	Acetone	58.08	4.4	J	12	3.3
71-43-2	Benzene	78.11	0.68		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.39	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	22		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.45	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.2	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.72	J	0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB-2 Lab Sample ID: 140-1037-5

Matrix: Air Lab File ID: EC13P111.D

Analysis Method: TO-15 Date Collected: 03/10/2014 15:30

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 22:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D
Lims ID: 140-1037-A-5 Lab Sample ID: 140-1037-5
Client ID: PCV-AMB-2
Sample Type: Client
Inject. Date: 13-Mar-2014 22:44:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-5
Misc. Info.: E031314,TO155,,140-0000518-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:25:17 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:25:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	230824	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1099590	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	948715	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	817385	3.93	
7 Propene	41	3.314	3.309	0.005	66	26693	0.4597	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	45059	0.1765	
9 Chloromethane	52	3.530	3.530	0.0	96	4123	0.2023	
17 Ethanol	31	4.306	4.312	-0.006	98	107875	4.67	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	19680	0.2435	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	23928	0.0934	
23 Acetone	58	4.878	4.878	0.0	92	25791	0.7377	
24 Isopropyl alcohol	45	4.970	4.970	0.0	82	32179	0.3575	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	69	4207	0.0265	
31 Methylene Chloride	84	5.784	5.789	-0.005	82	13635	0.2067	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	90	3144	0.0832	
40 Hexane	56	7.585	7.585	0.0	61	3145	0.0512	
48 Benzene	78	9.990	9.995	-0.005	92	18859	0.0852	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	69	5248	0.0247	
53 Isooctane	57	10.777	10.788	-0.011	73	6465	0.0189	
54 n-Heptane	71	11.176	11.182	-0.006	62	1647	0.0197	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	76	3166	0.0243	
65 Toluene	91	13.398	13.403	-0.005	86	19296	0.0759	
73 Tetrachloroethene	129	14.546	14.552	-0.006	65	2238	0.0207	

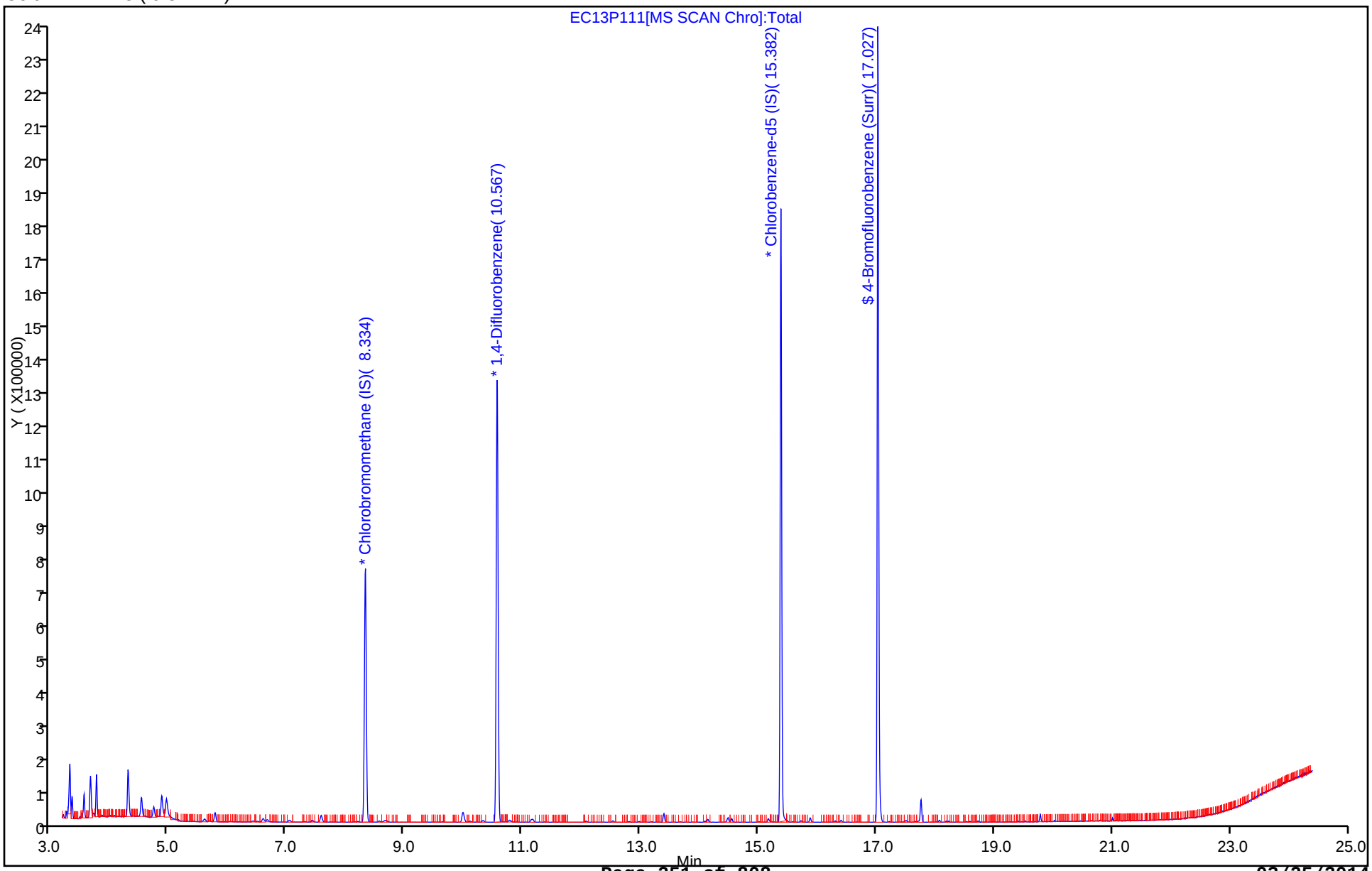
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5	Worklist Smp#:	16
Client ID:	PCV-AMB-2				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

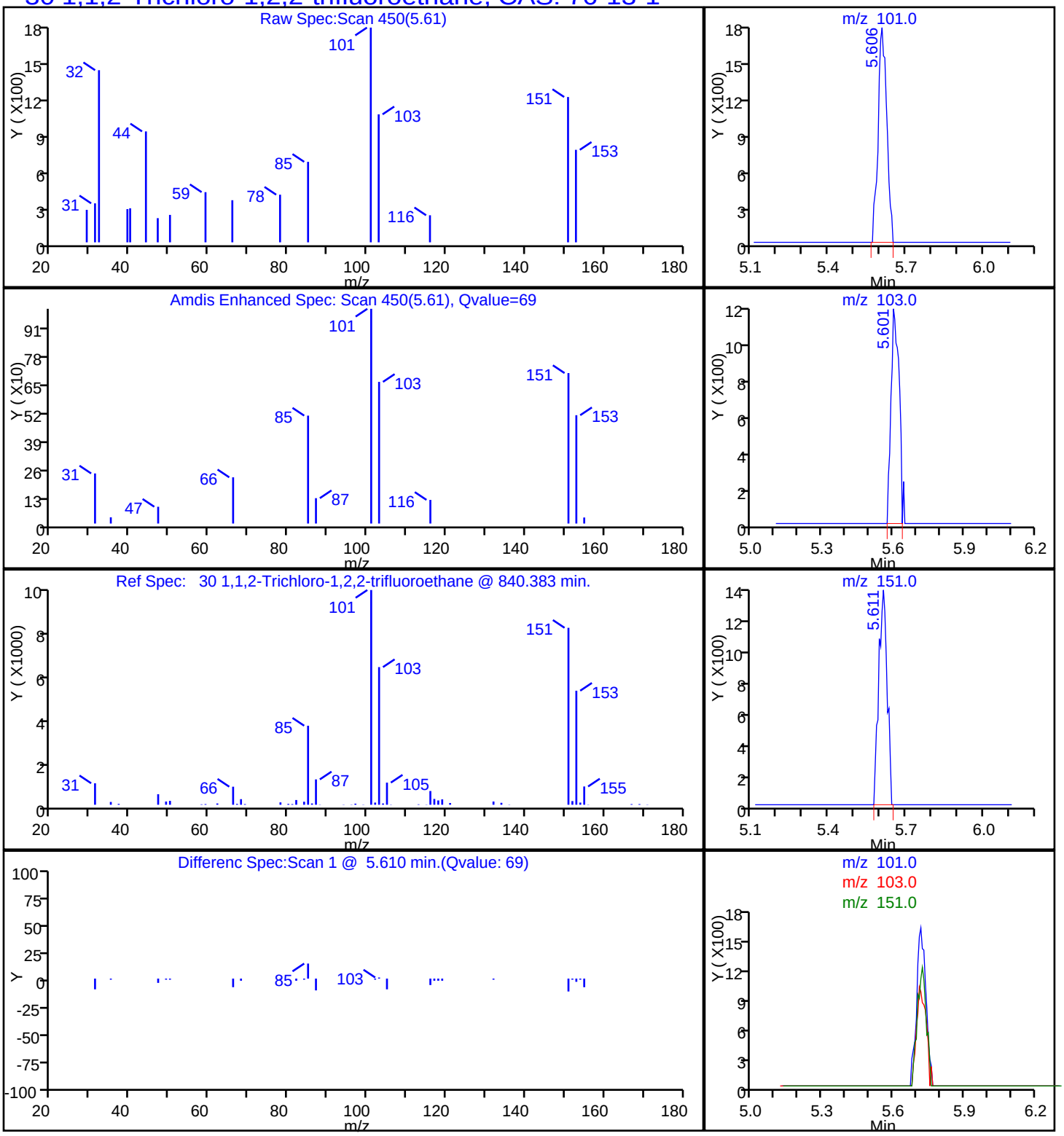
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D				
Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



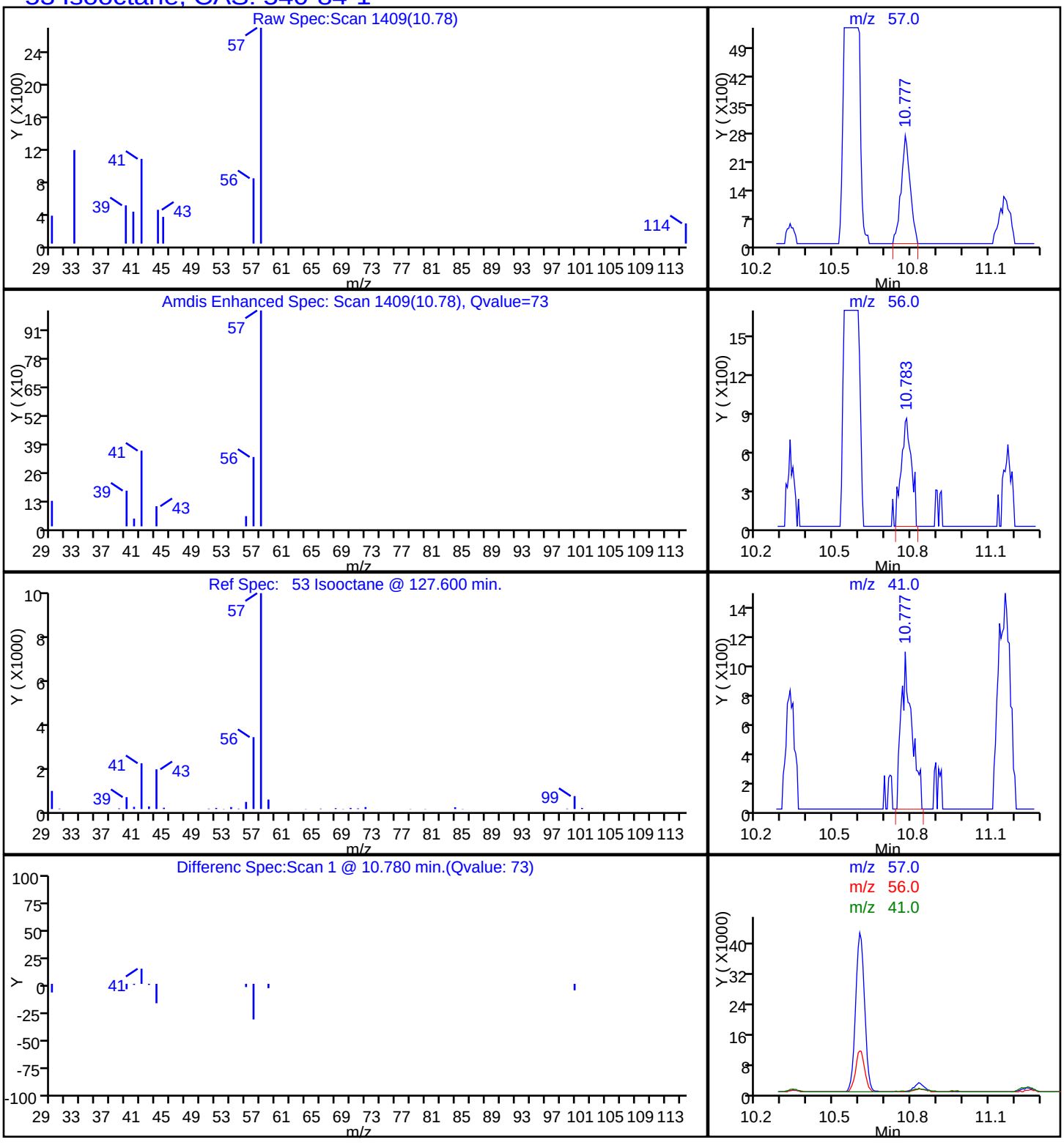
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

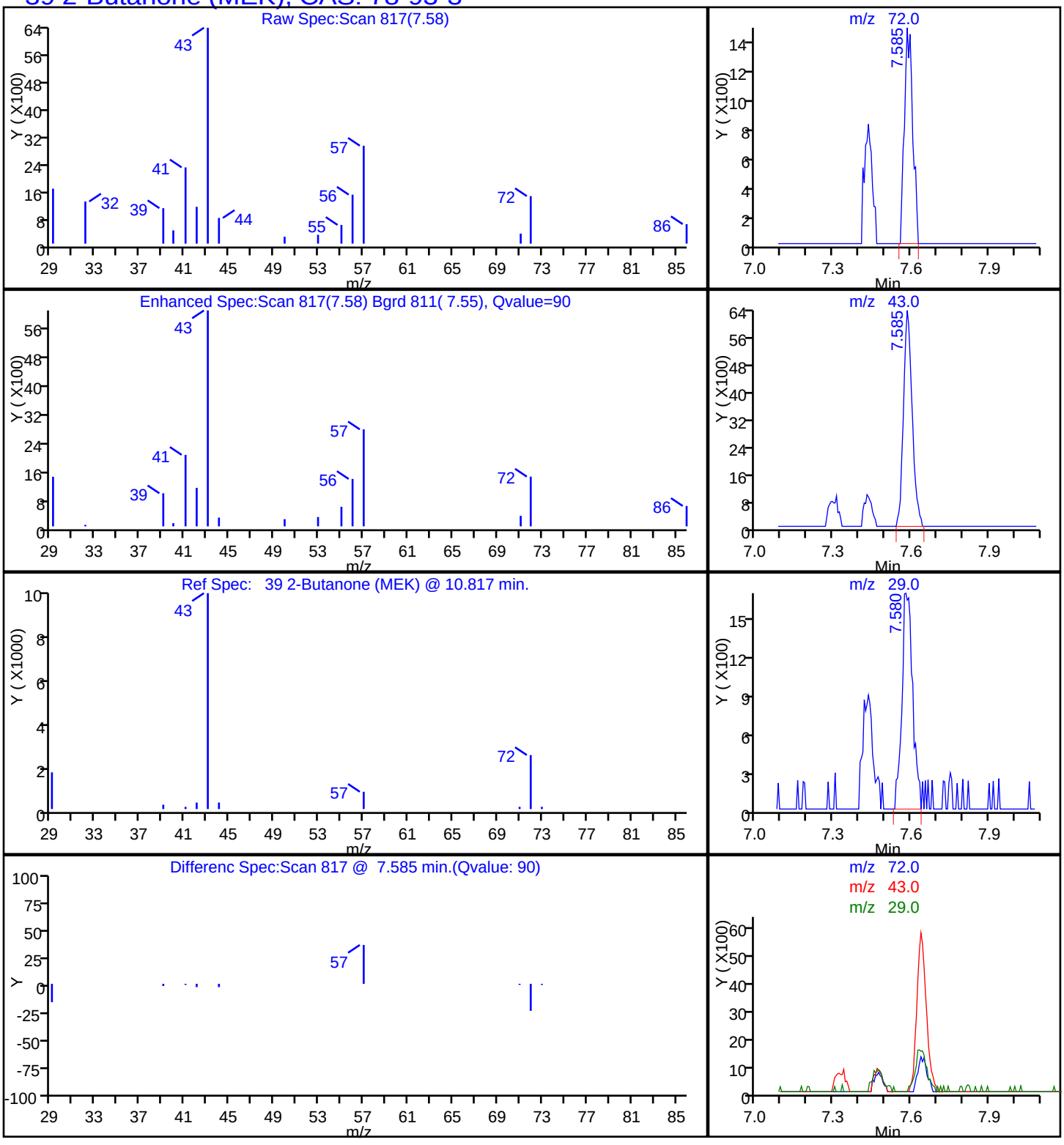
53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D		
Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



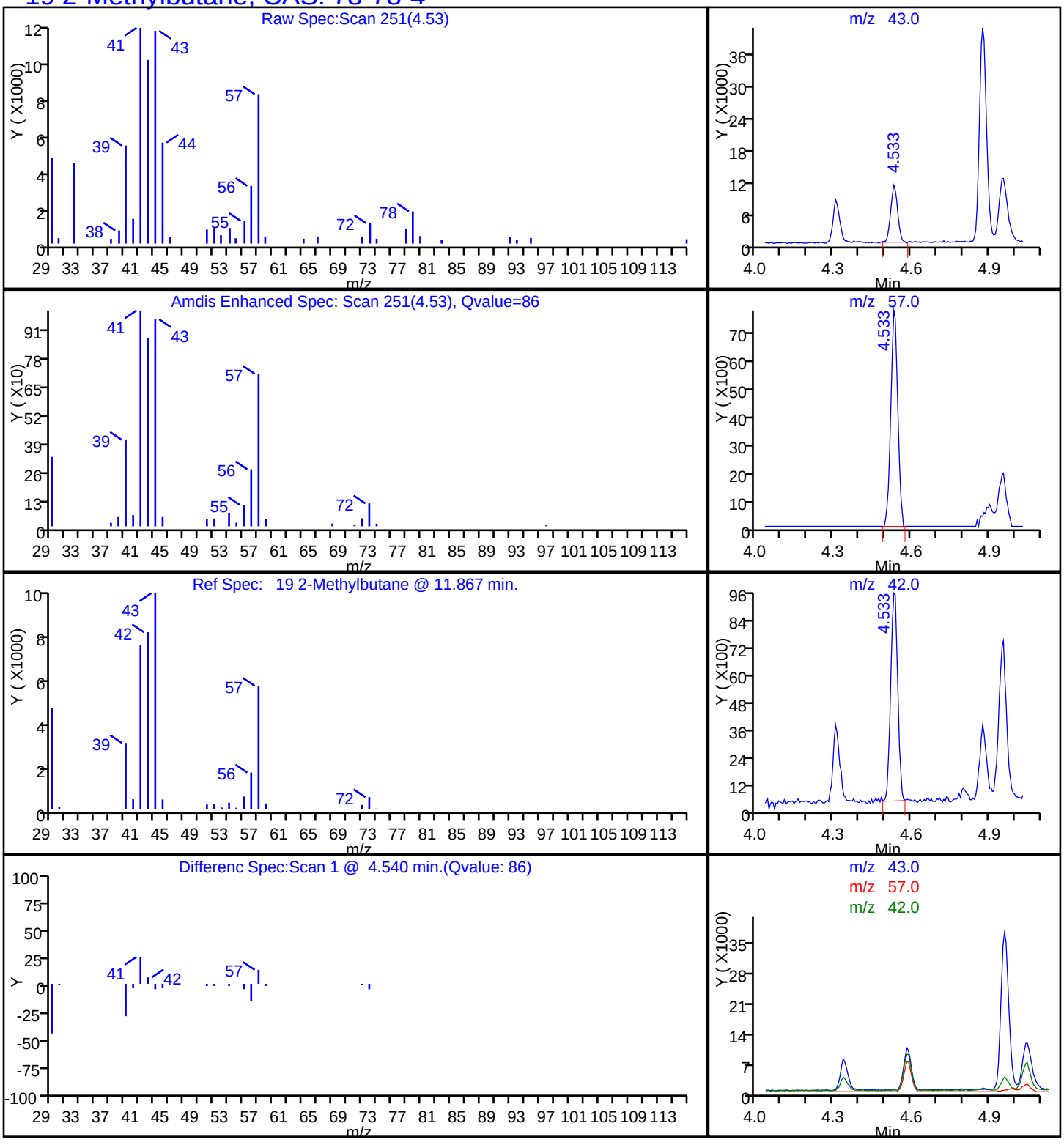
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



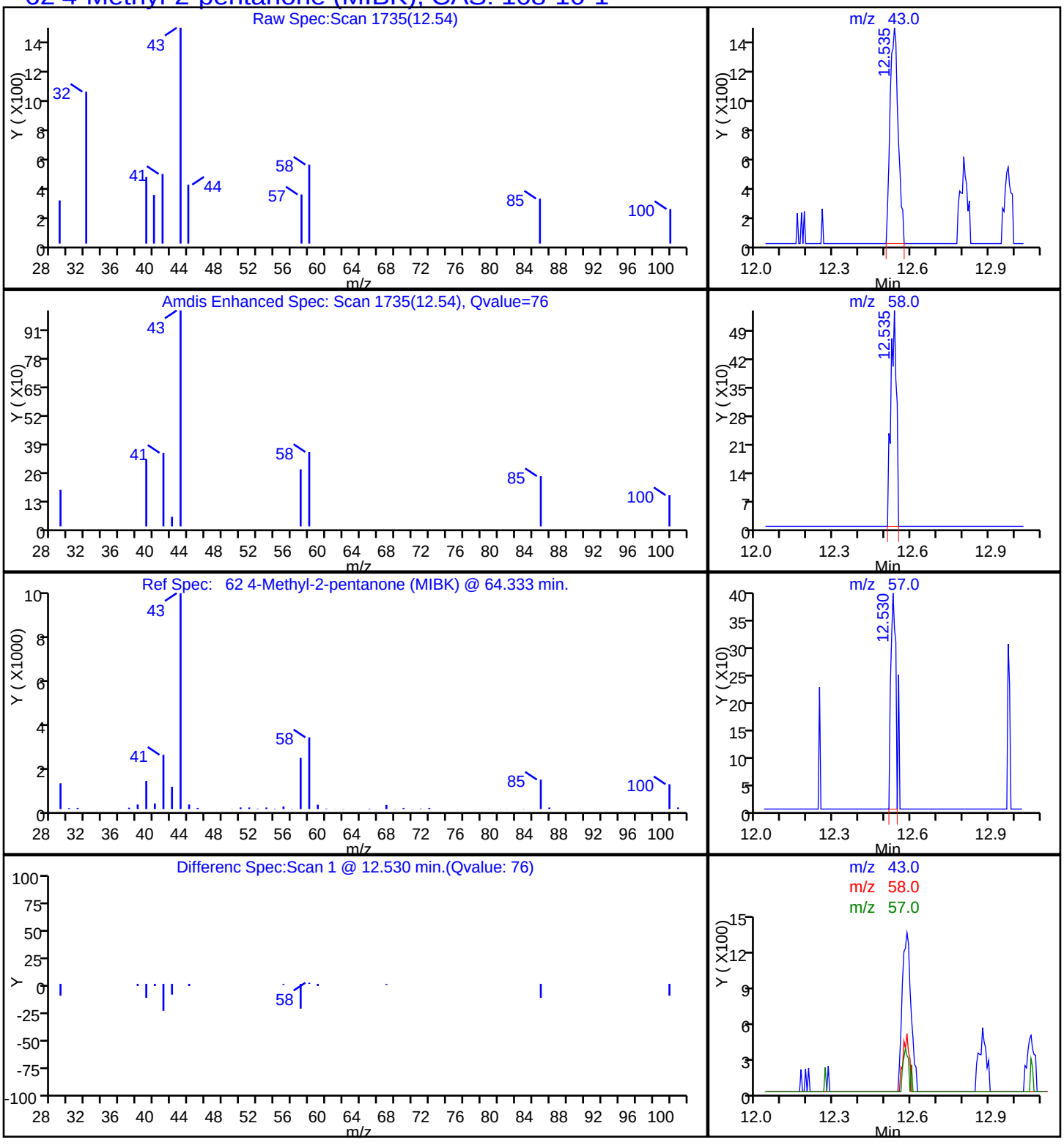
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



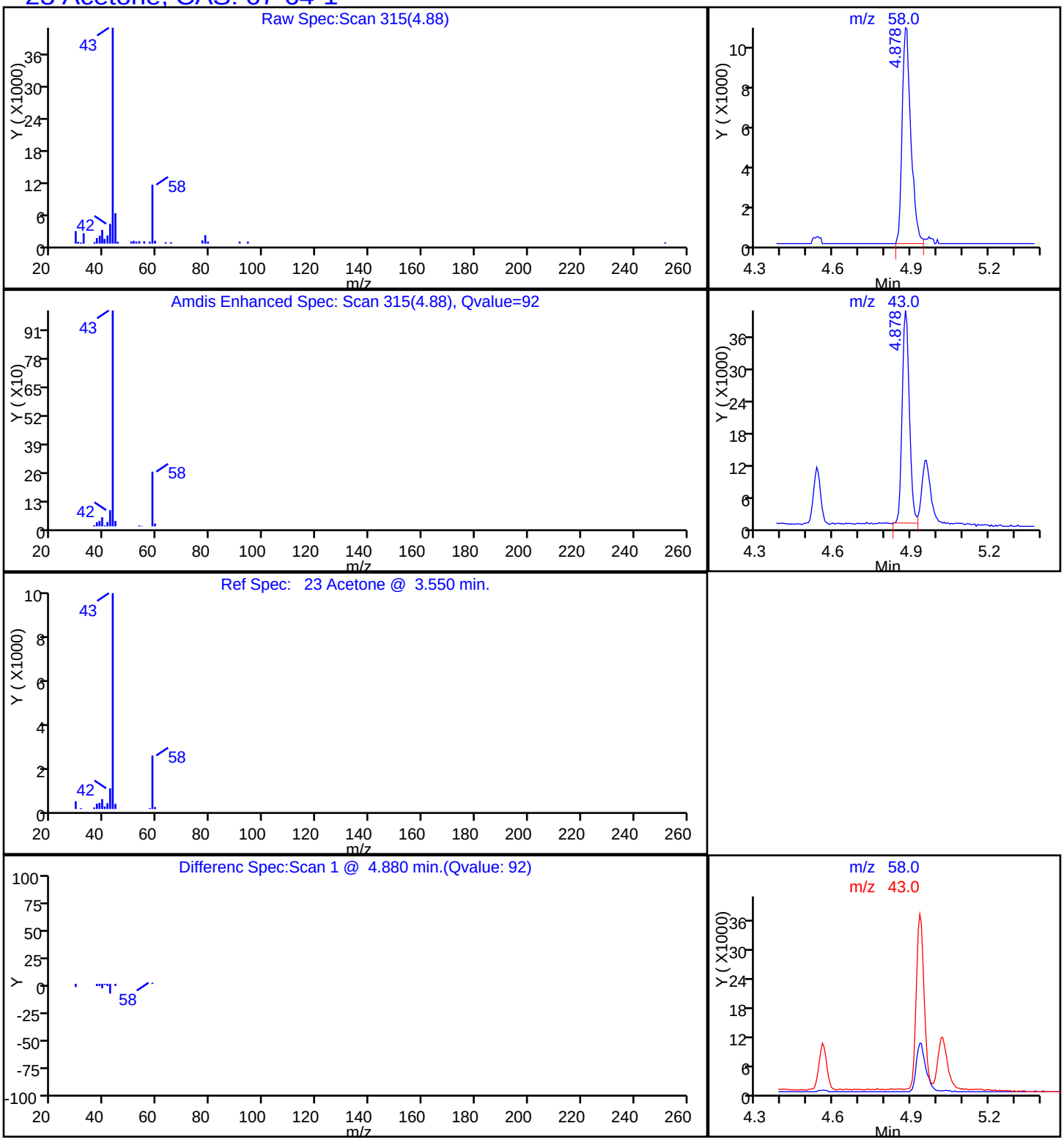
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



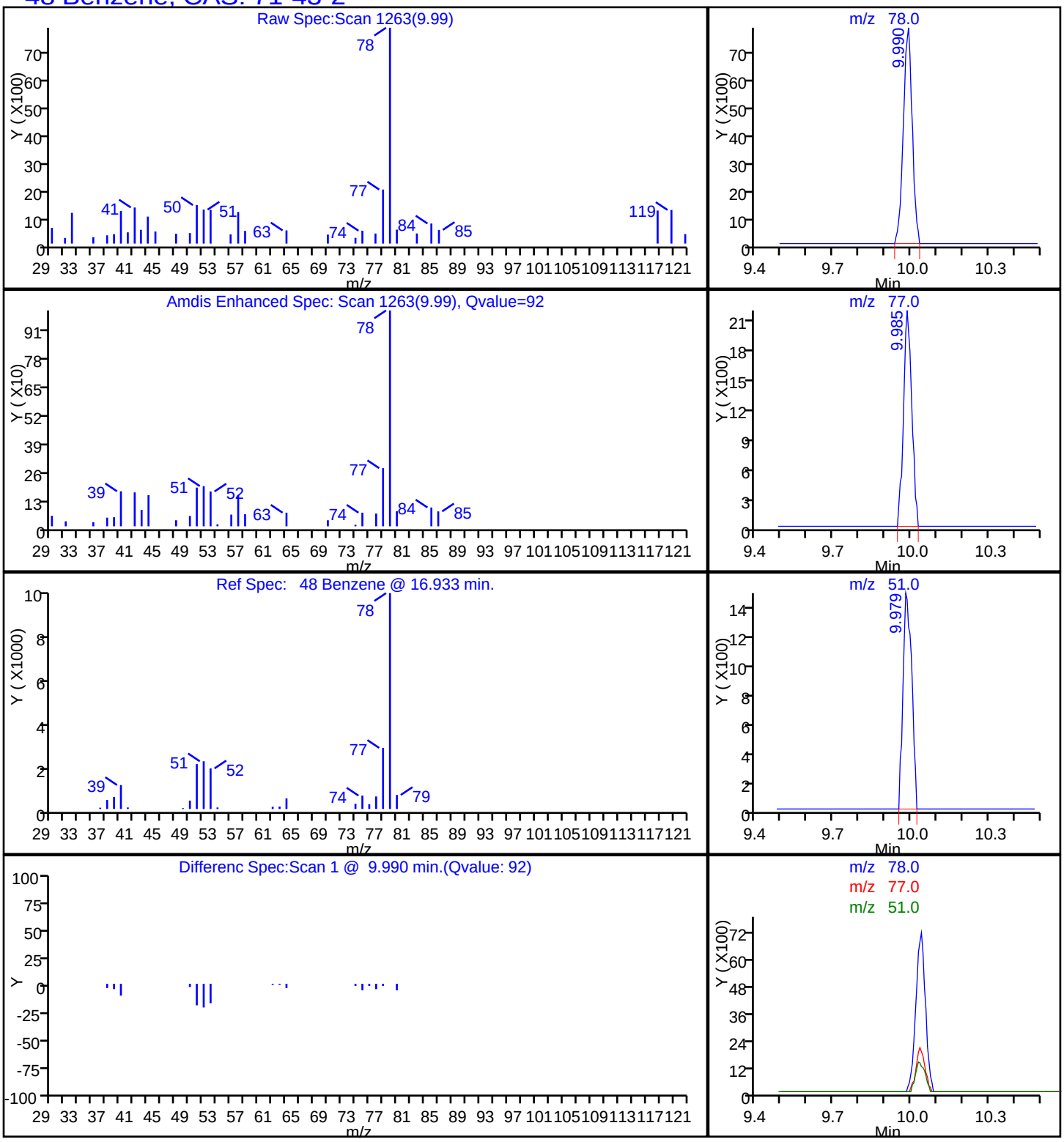
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



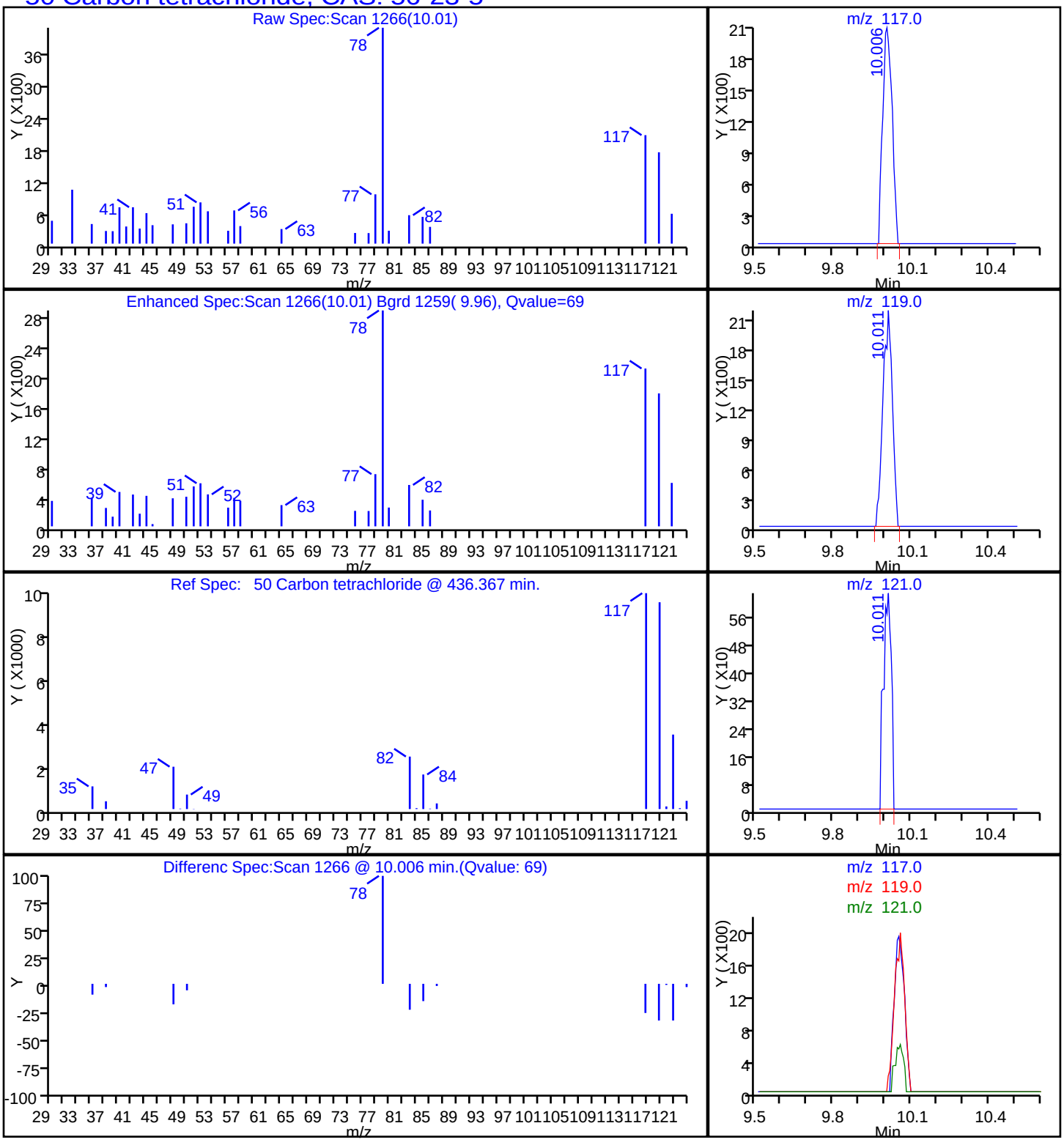
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



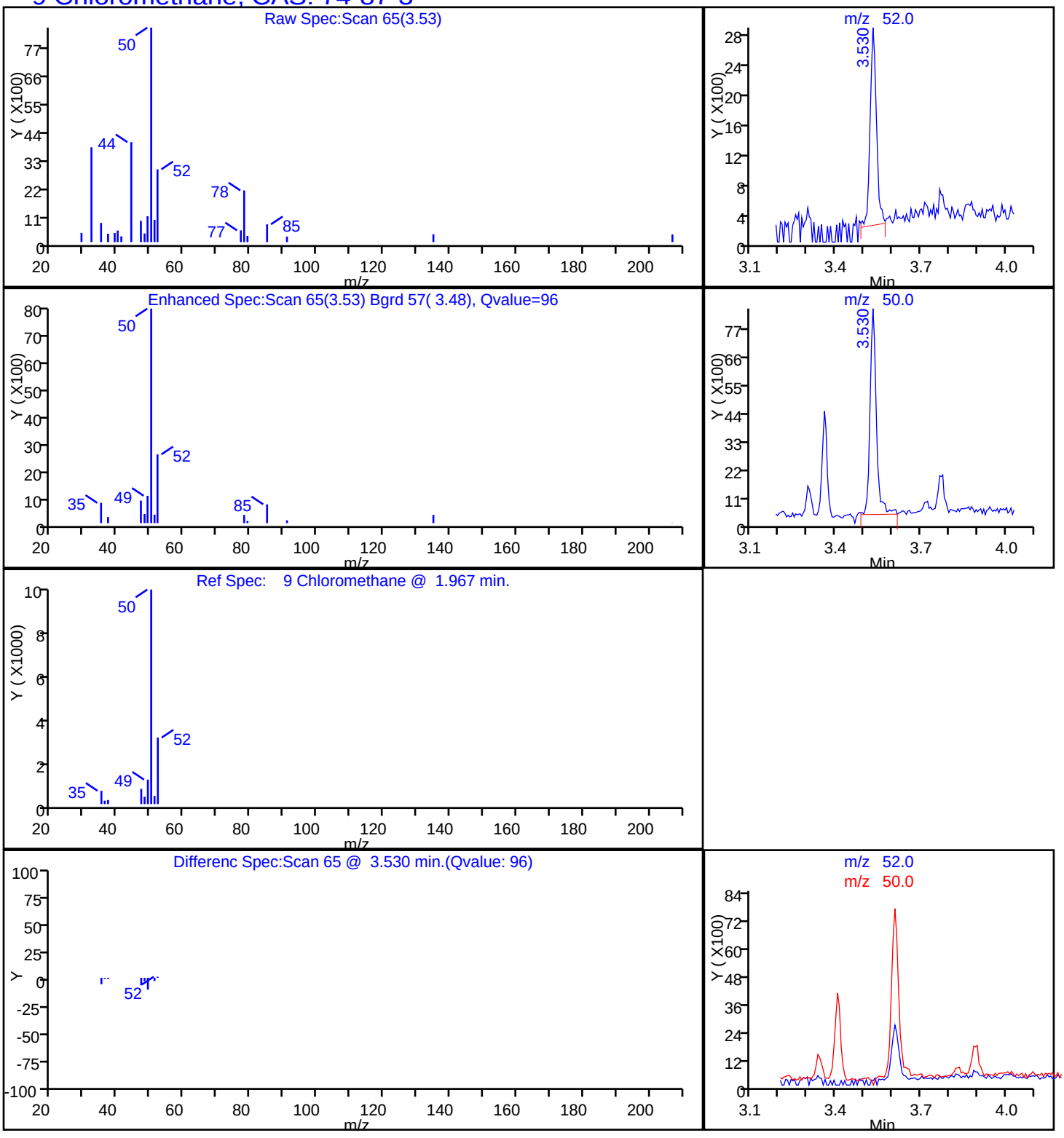
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date: 13-Mar-2014 22:44:30 Instrument ID: ME

Lims ID: 140-1037-A-5 Lab Sample ID: 140-1037-5

Client ID: PCV-AMB-2

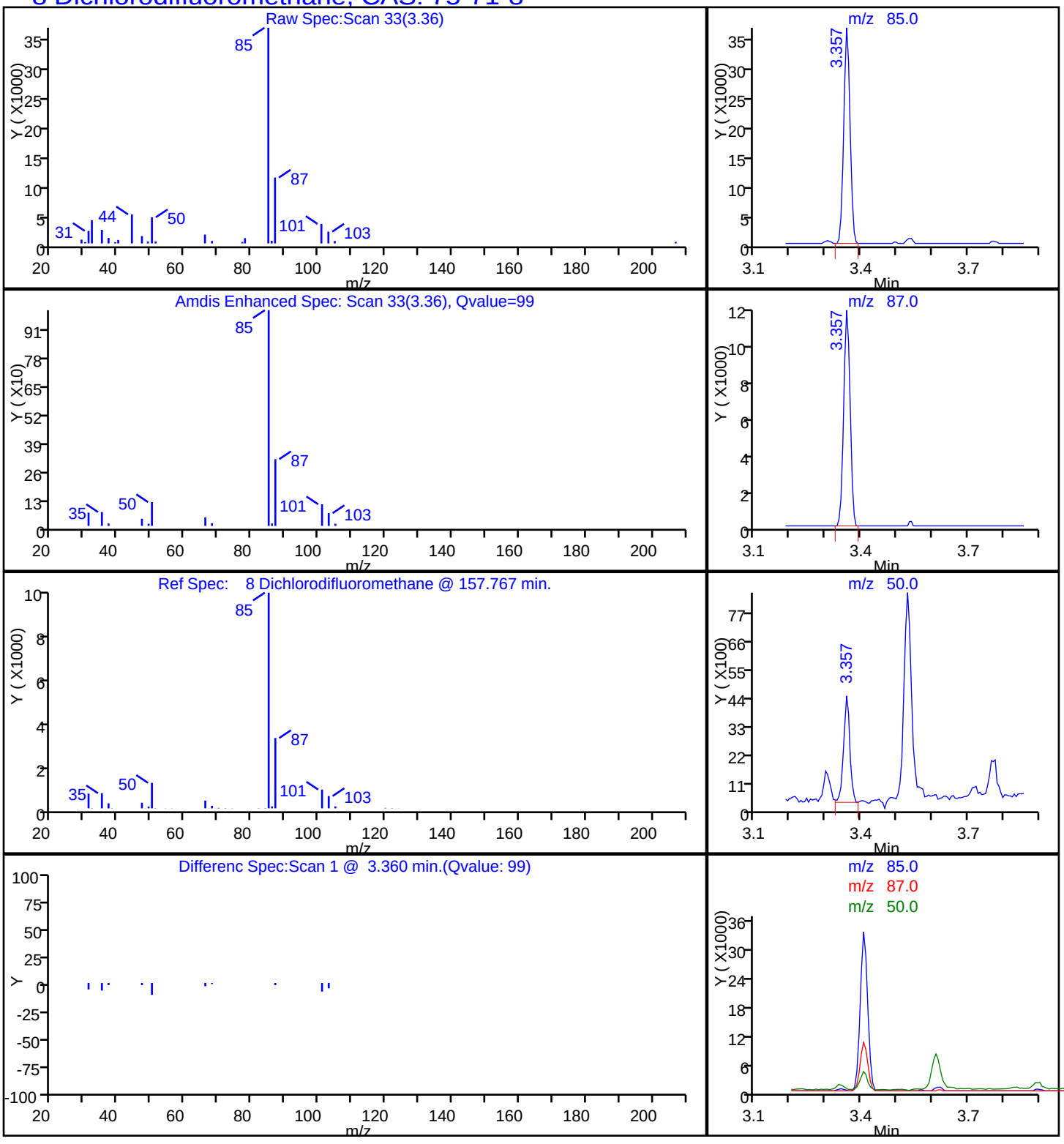
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



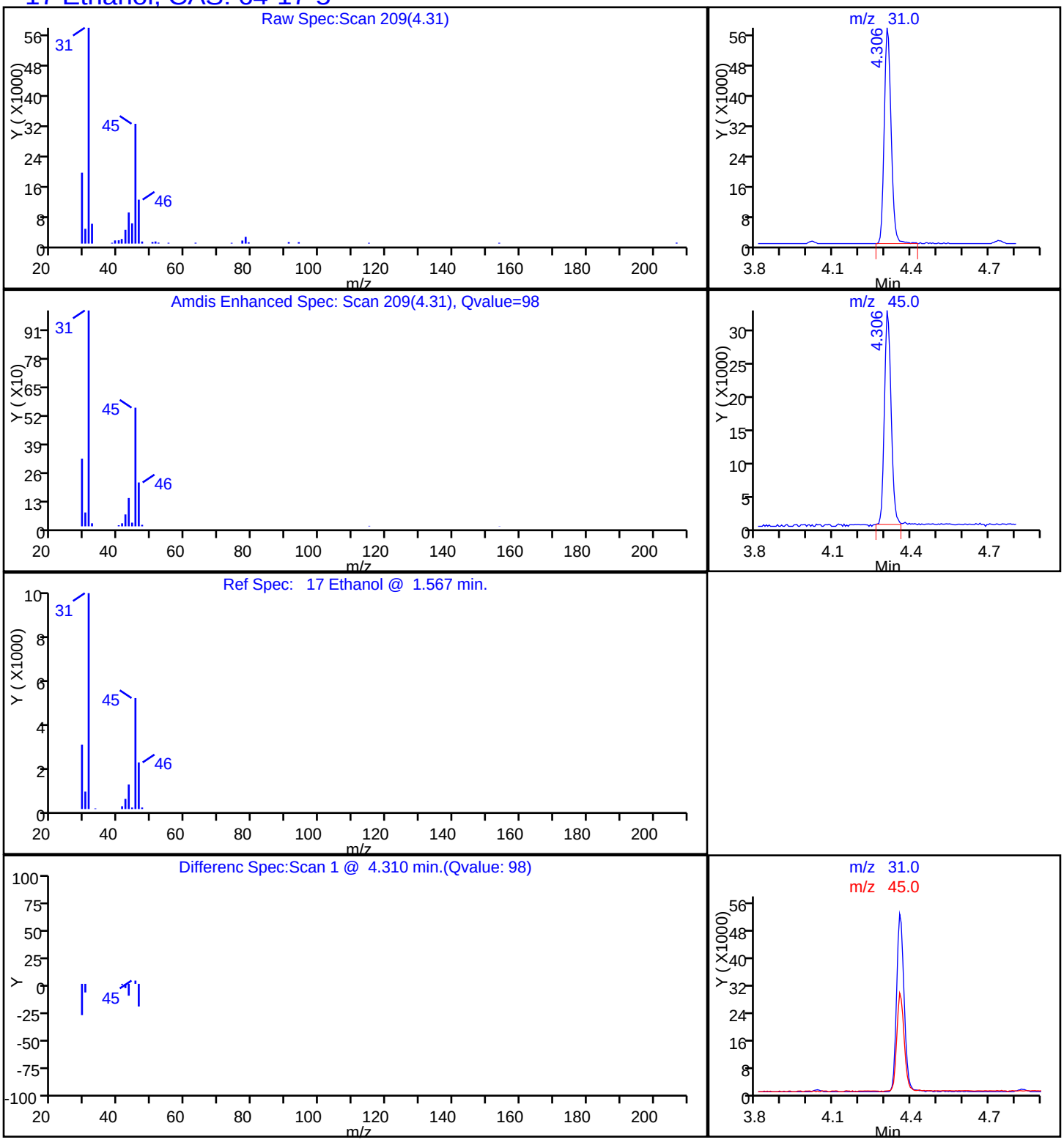
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



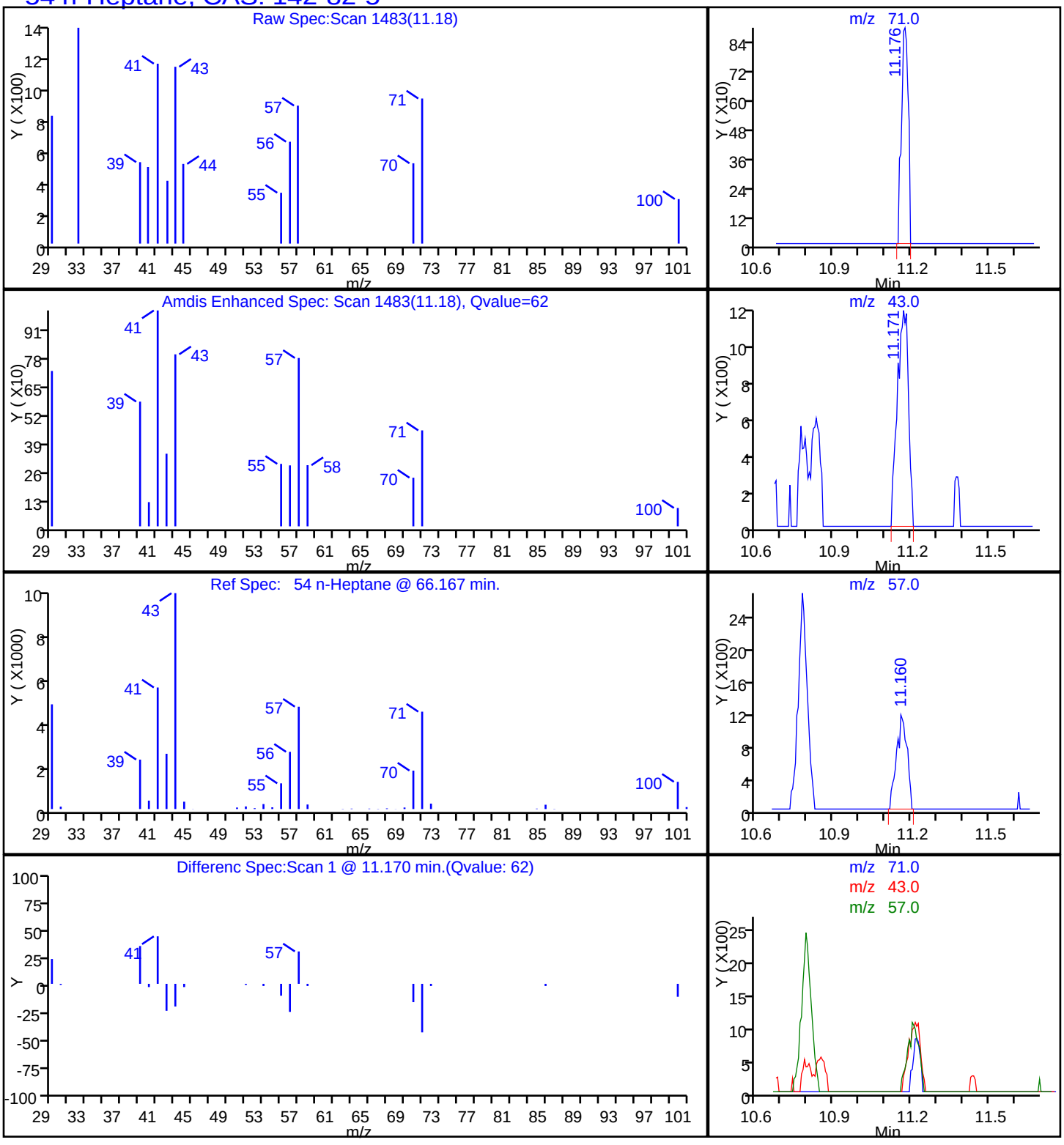
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



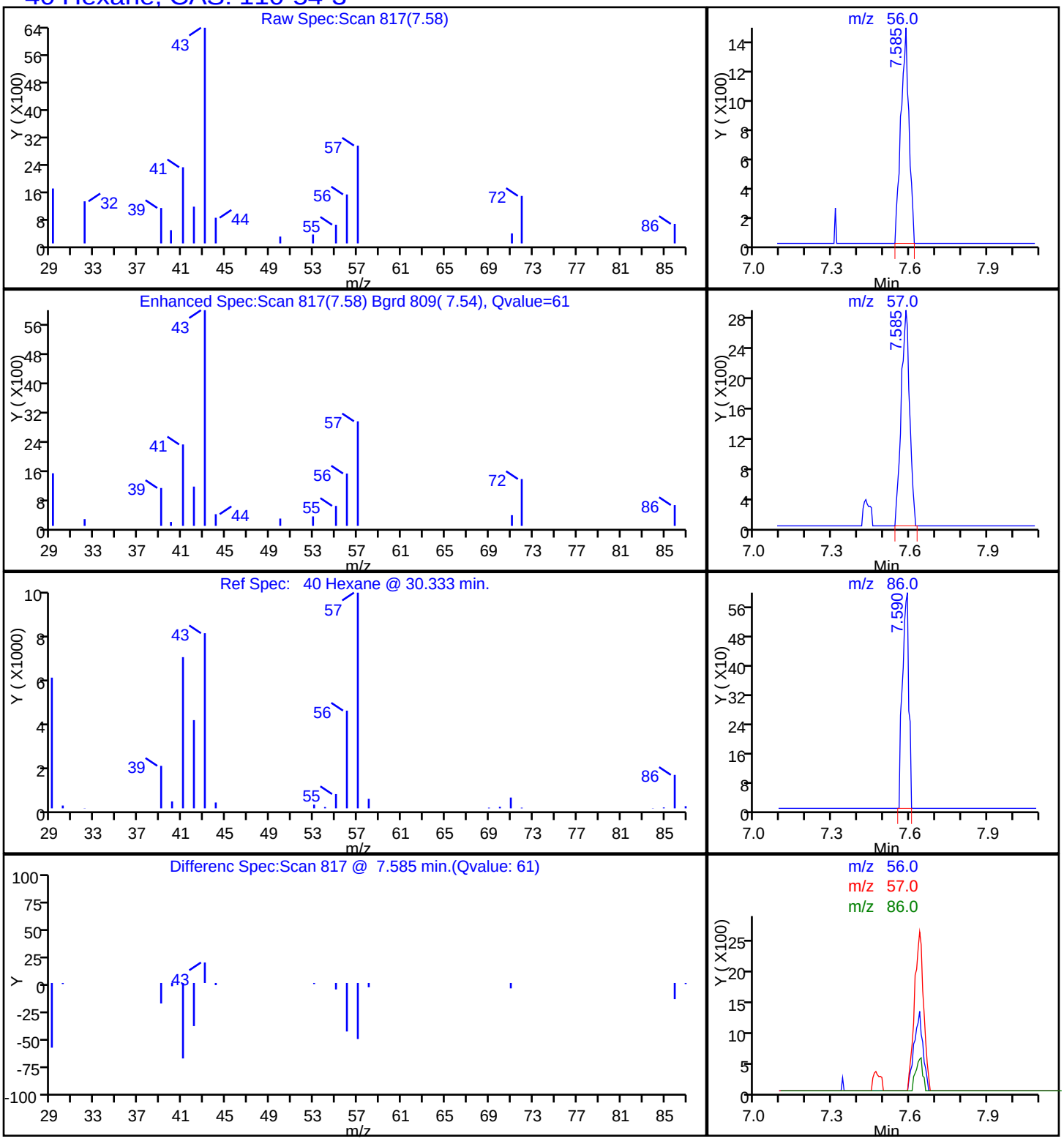
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



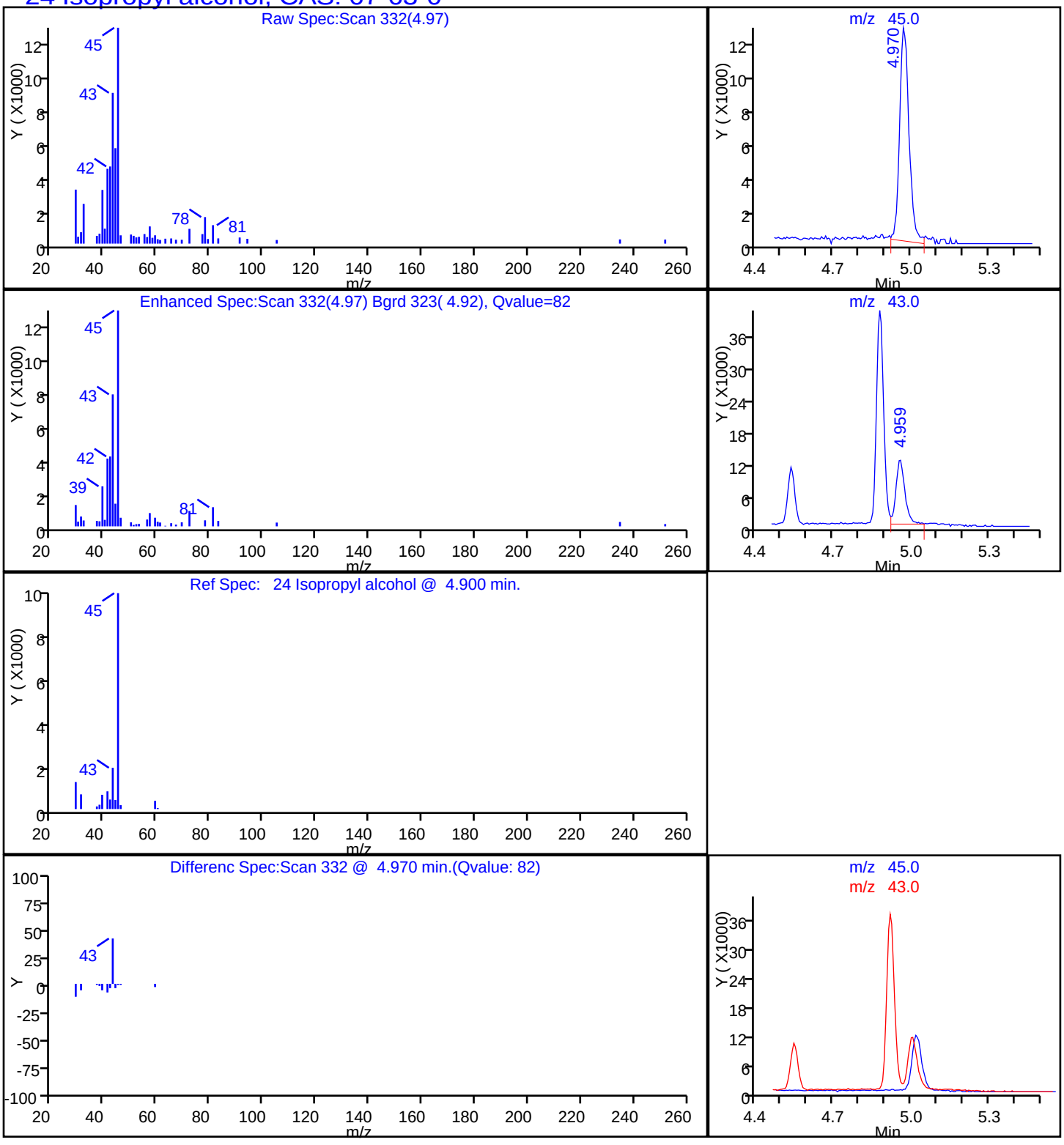
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



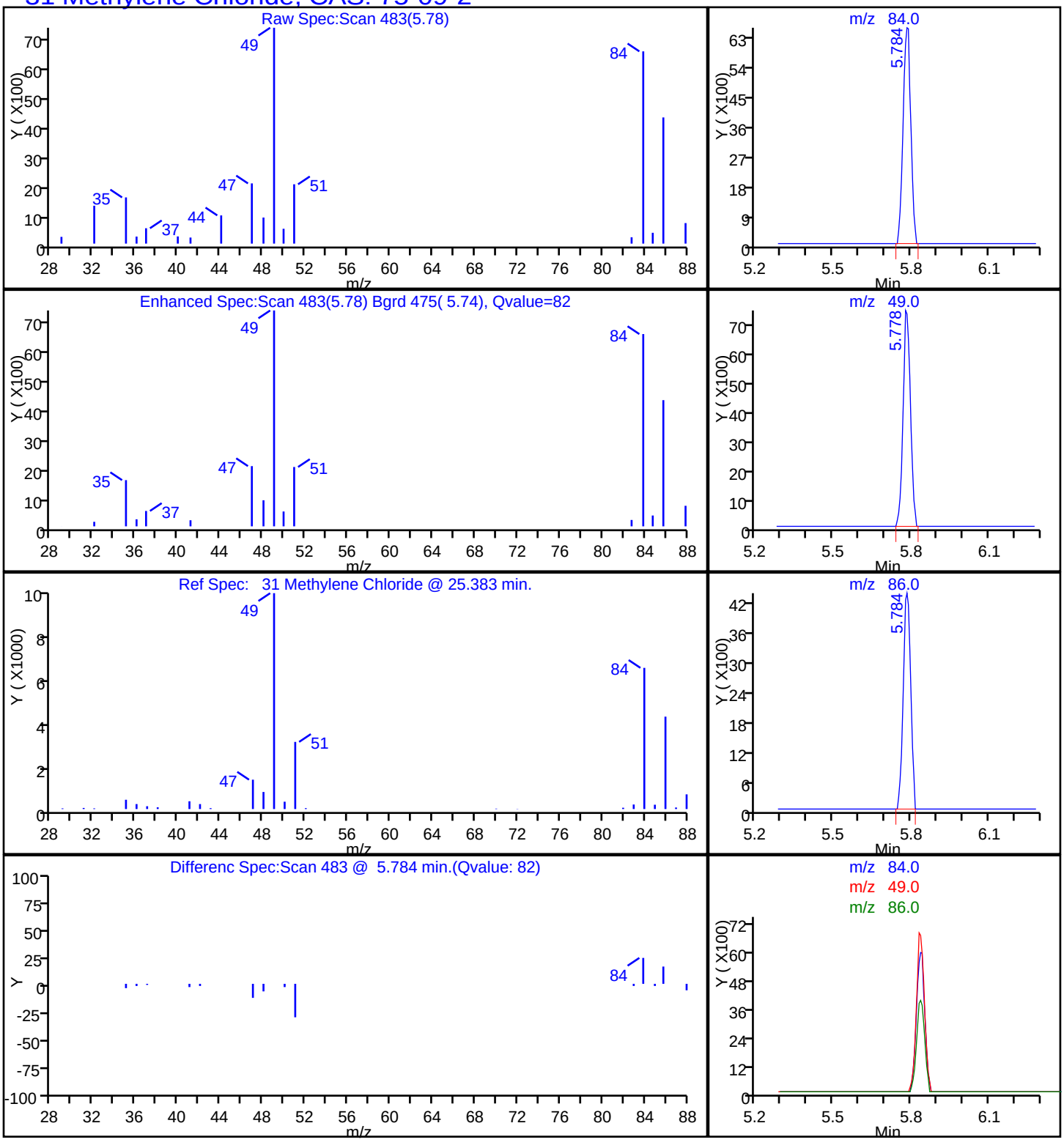
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date: 13-Mar-2014 22:44:30 Instrument ID: ME

Lims ID: 140-1037-A-5 Lab Sample ID: 140-1037-5

Client ID: PCV-AMB-2

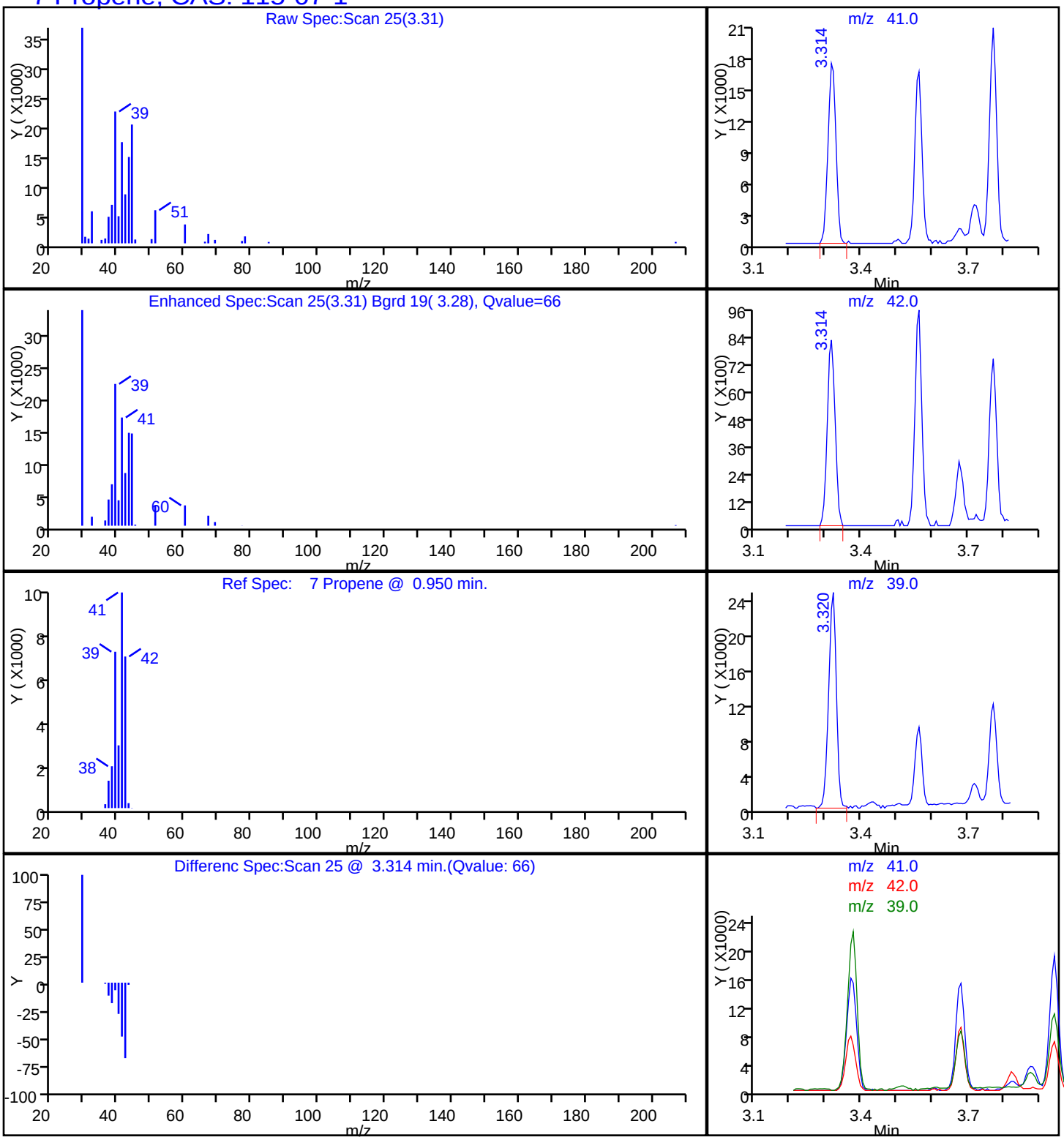
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



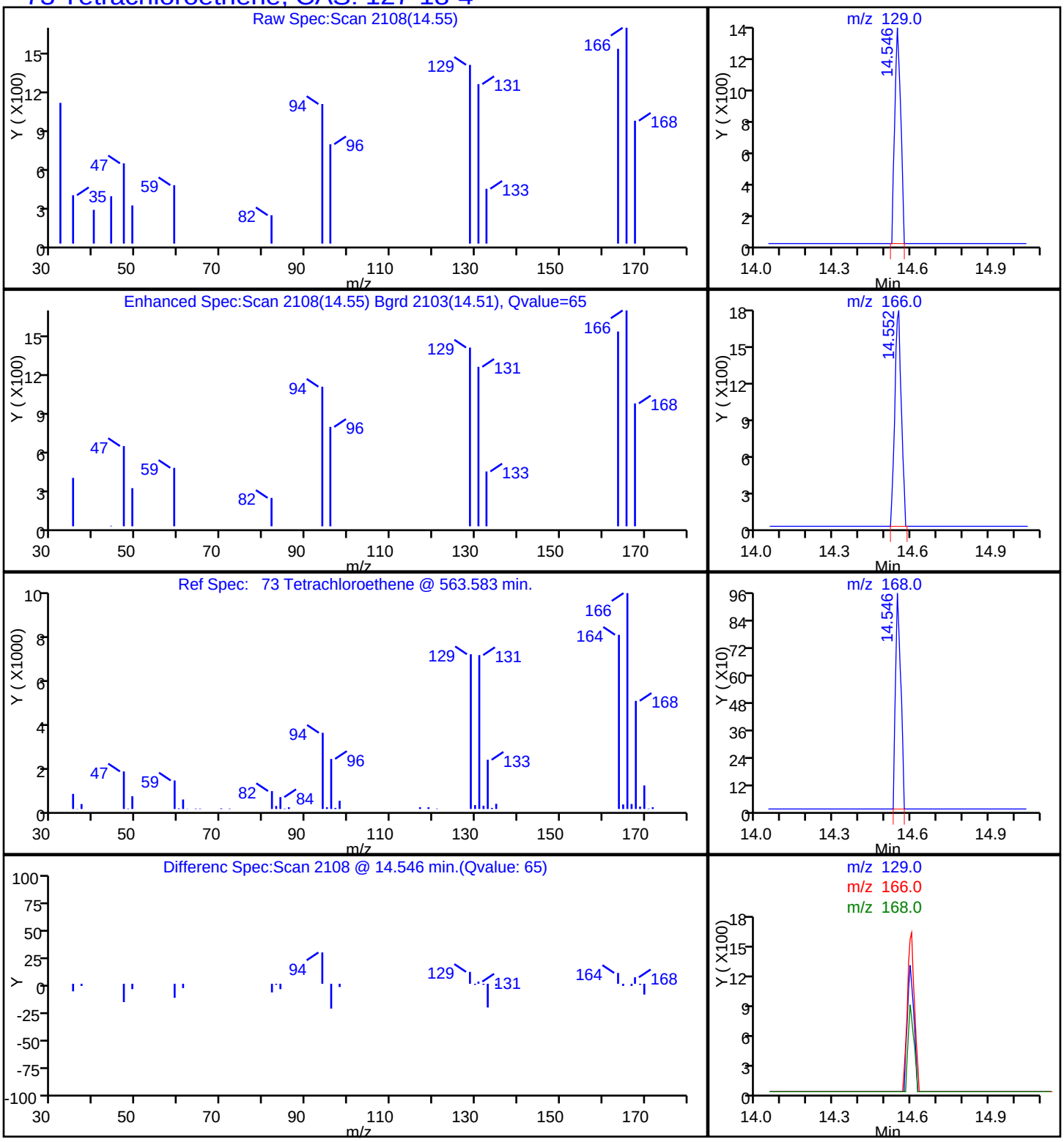
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



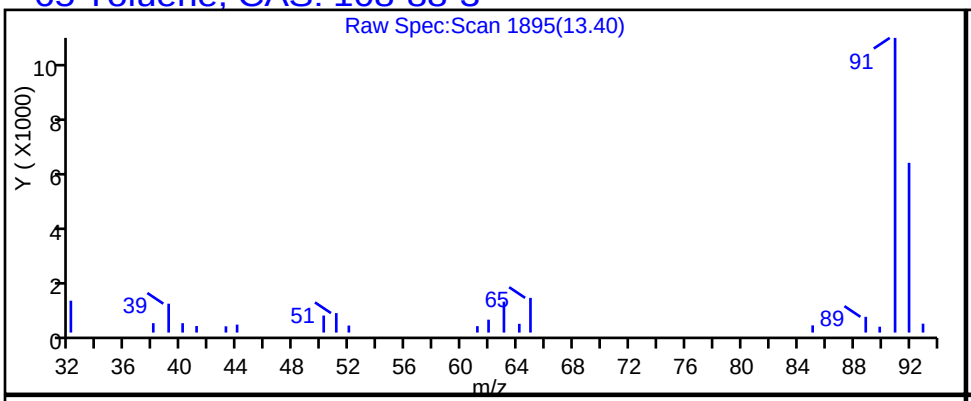
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

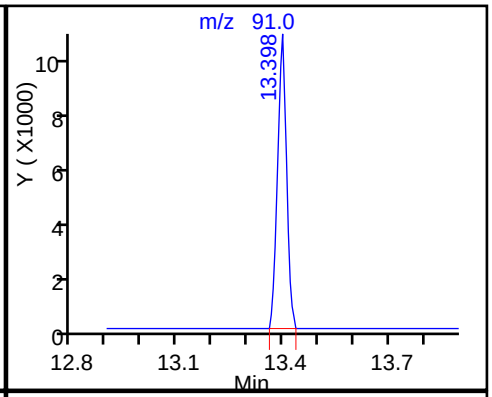
TestAmerica Knoxville

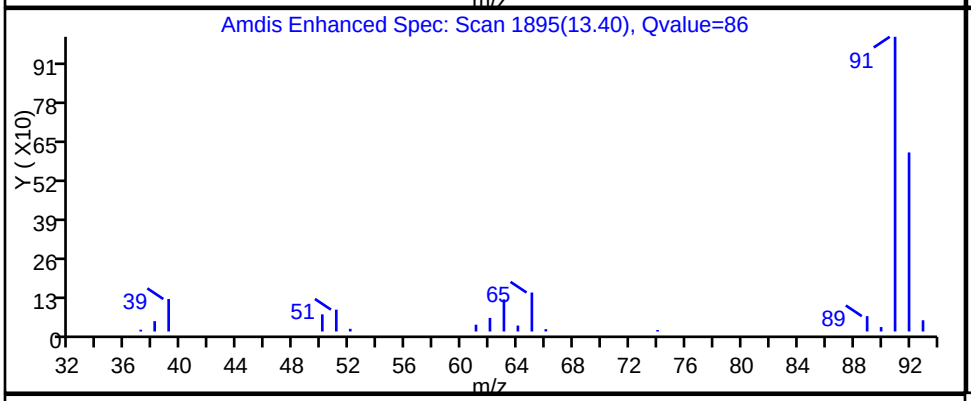
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

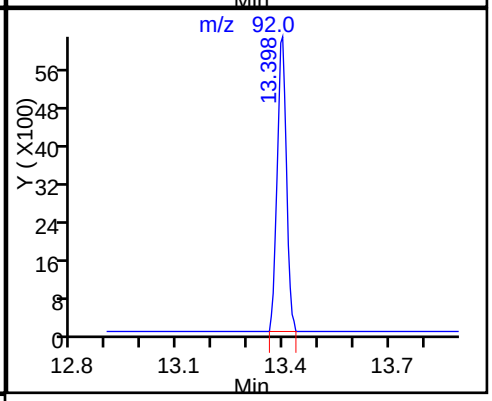
Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5
Client ID:	PCV-AMB-2		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

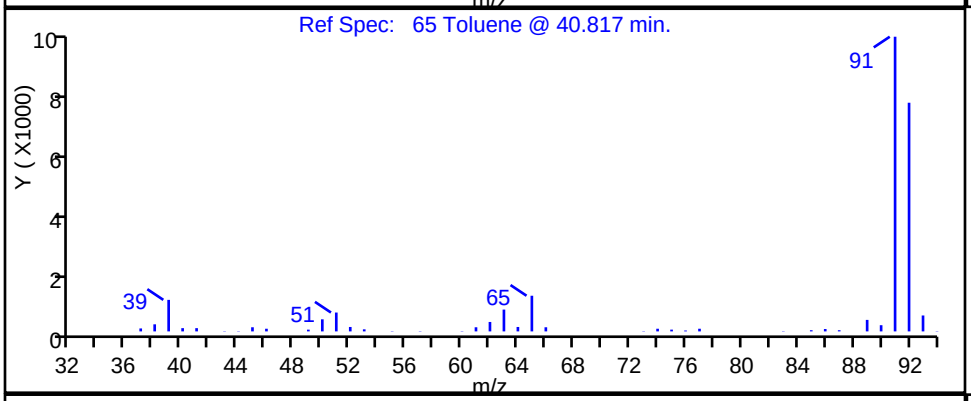
65 Toluene, CAS: 108-88-3

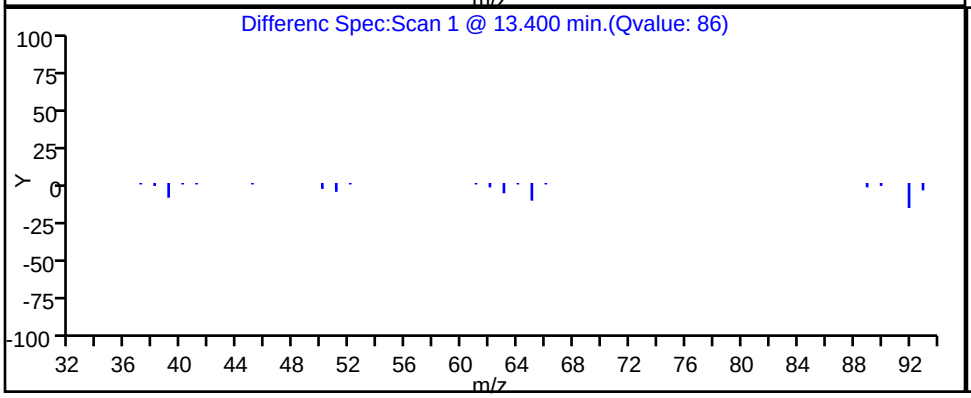


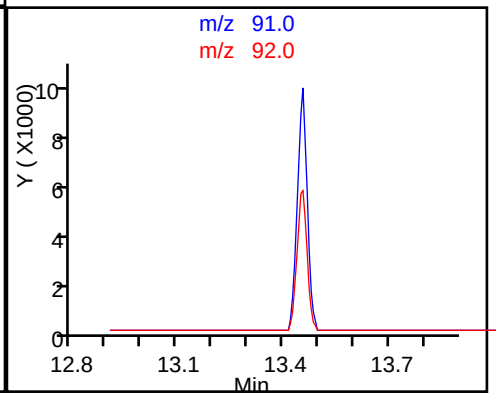












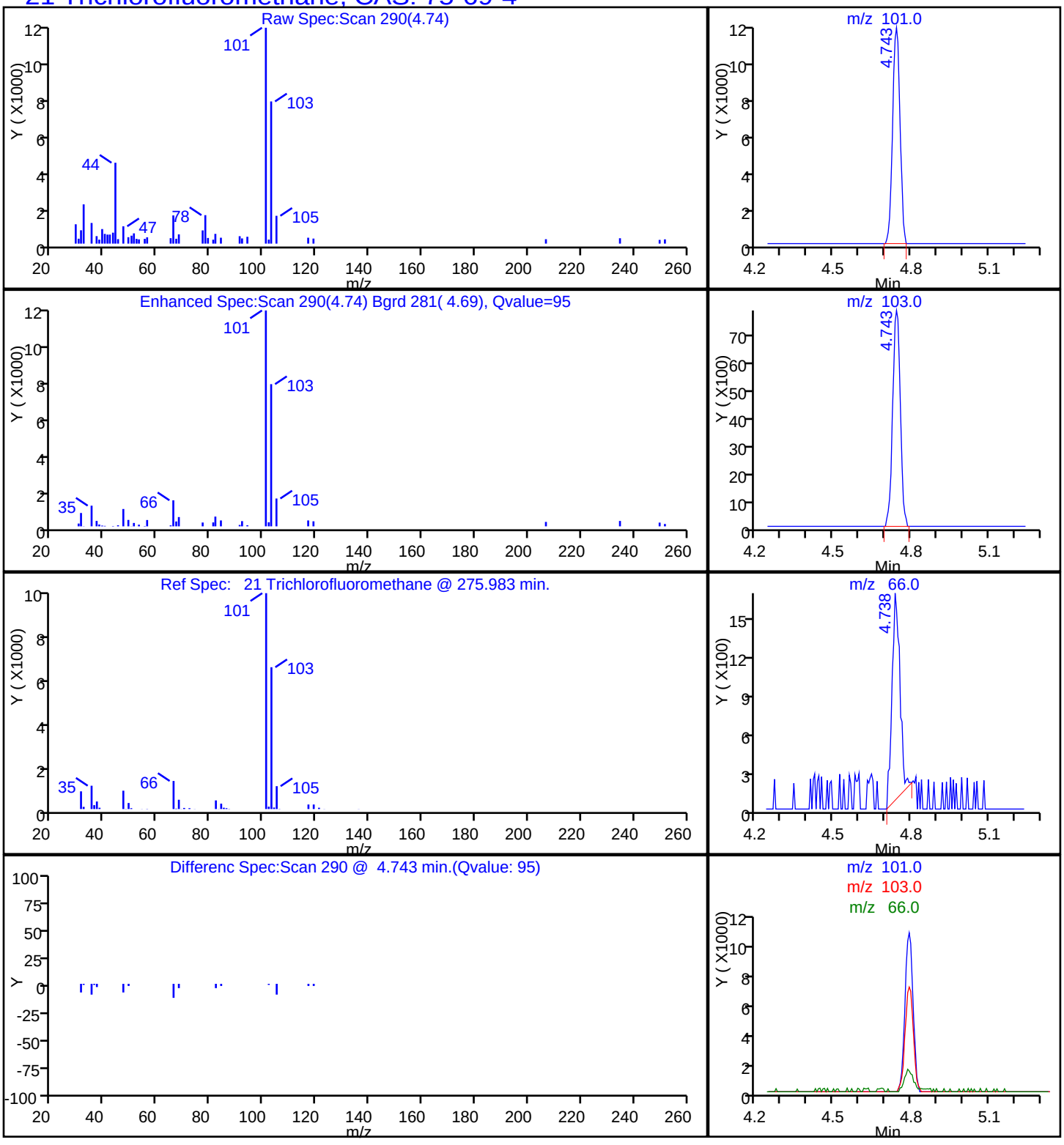
Report Date: 14-Mar-2014 07:25:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P111.D

Injection Date:	13-Mar-2014 22:44:30	Instrument ID:	ME		
Lims ID:	140-1037-A-5	Lab Sample ID:	140-1037-5		
Client ID:	PCV-AMB-2				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.069	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.042	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	0.44		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.33	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.80		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.059	J	0.50	0.045
67-64-1	Acetone	58.08	9.5		5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.088	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.46	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	54		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.68		0.20	0.068
142-82-5	Heptane	100.21	0.25	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.6		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	3.3		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	3.7		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	1.3		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.089	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.26		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	1.8		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.98	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.24	J	2.0	0.18
67-64-1	Acetone	58.08	23		12	3.3
71-43-2	Benzene	78.11	0.70		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.43	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.96	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	100		3.8	3.8
100-41-4	Ethylbenzene	106.17	3.0		0.87	0.30
142-82-5	Heptane	100.21	1.0	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.54	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	11		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	11		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	16		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	5.5		0.87	0.26
115-07-1	Propene	42.08	2.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.60	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.99		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B16 Lab Sample ID: 140-1037-6

Matrix: Air Lab File ID: EC13P112.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 00:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D
Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6
Client ID: PCV-IA2-B16
Sample Type: Client
Inject. Date: 14-Mar-2014 00:15:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-6
Misc. Info.: E031314,TO155,,140-0000518-018
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:26:34 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:26:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	80	218519	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1115502	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	1014181	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	900334	4.05	
7 Propene	41	3.319	3.309	0.010	66	27859	0.5068	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	100	47712	0.1974	
9 Chloromethane	52	3.535	3.530	0.005	96	3585	0.1858	
17 Ethanol	31	4.333	4.312	0.021	98	473810	21.7	
19 2-Methylbutane	43	4.538	4.538	0.0	86	24616	0.3217	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	93	25557	0.1054	
23 Acetone	58	4.872	4.878	-0.006	99	126028	3.81	
24 Isopropyl alcohol	45	4.986	4.970	0.016	97	156176	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	65	3933	0.0262	
31 Methylene Chloride	84	5.789	5.789	0.0	85	82085	1.31	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	91	4757	0.1330	
40 Hexane	56	7.590	7.585	0.005	57	3569	0.0614	
43 Chloroform	83	8.345	8.351	-0.006	16	6561	0.0350	
48 Benzene	78	9.990	9.995	-0.005	61	19578	0.0872	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	84	5594	0.0259	
51 2,3-Dimethylpentane	71	10.108	10.119	-0.011	82	9286	0.1777	
53 Isooctane	57	10.777	10.788	-0.011	8	5887	0.0170	
54 n-Heptane	71	11.182	11.182	0.0	71	8550	0.1006	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	72	3122	0.0236	
65 Toluene	91	13.398	13.403	-0.005	88	28649	0.1054	
73 Tetrachloroethene	129	14.552	14.552	0.0	82	4105	0.0355	
76 Ethylbenzene	91	15.722	15.722	0.0	100	95069	0.2730	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	402590	1.47	
82 o-Xylene	91	16.407	16.412	-0.005	97	148717	0.5023	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	72	8614	0.0277	

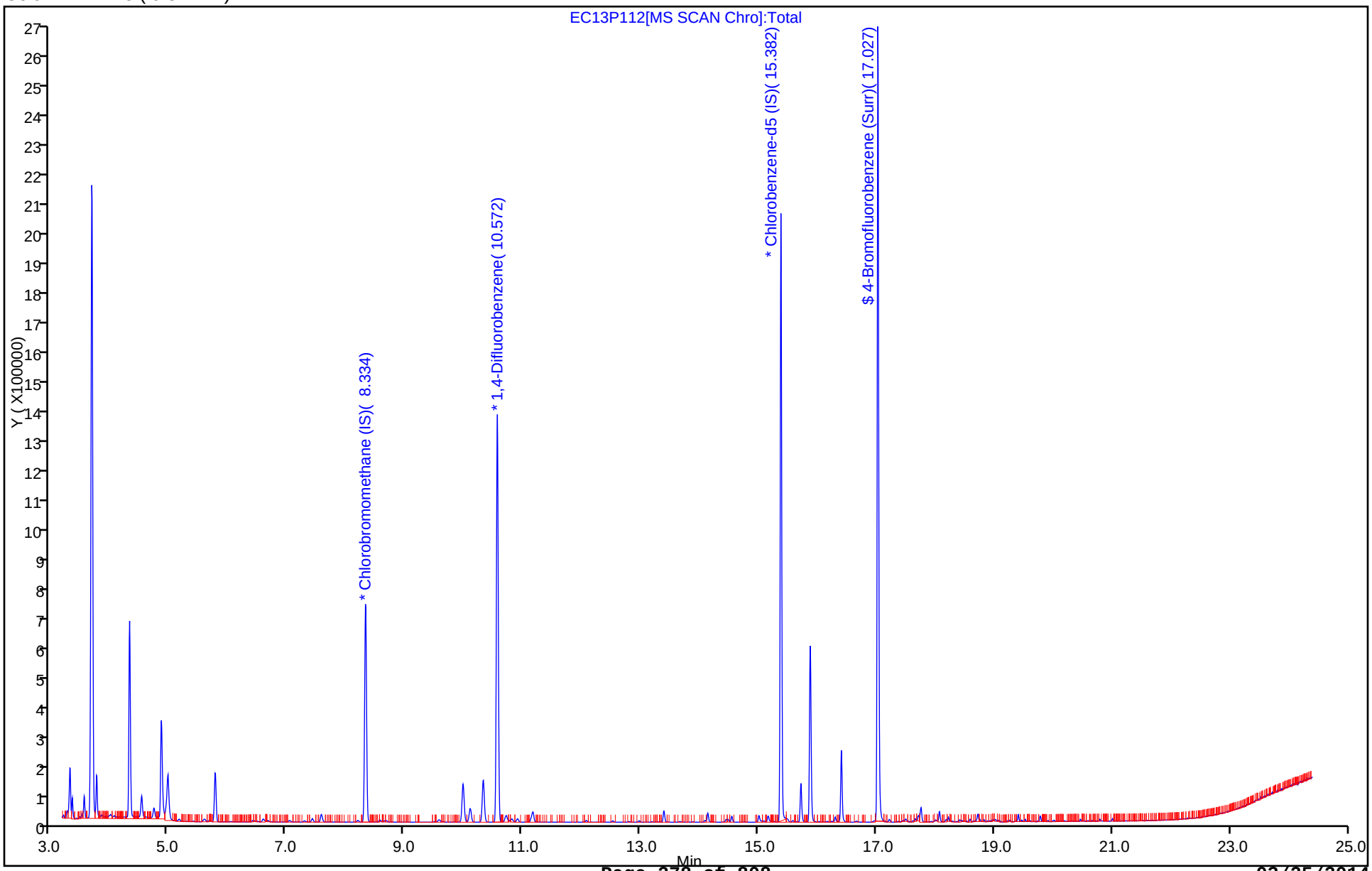
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

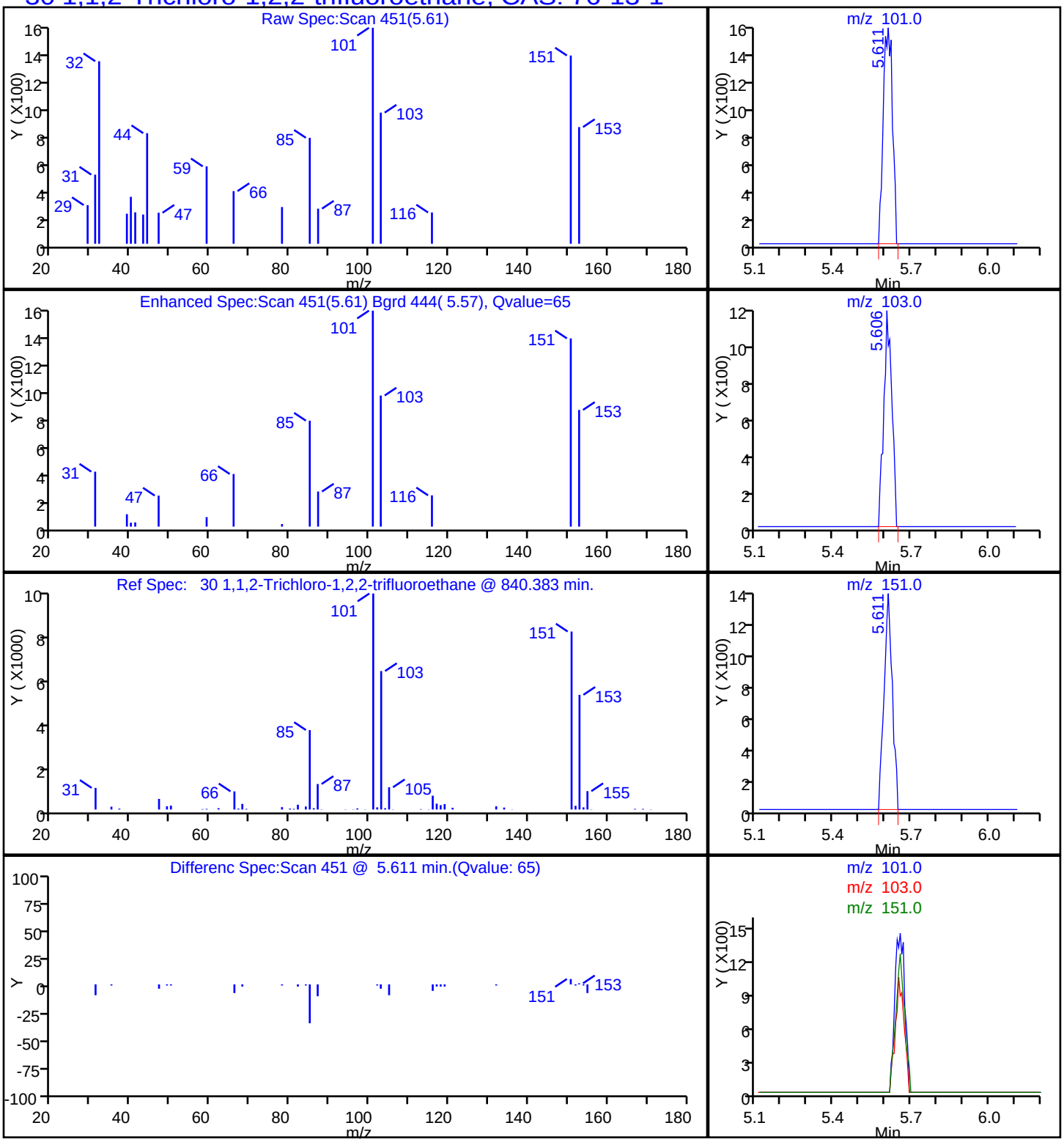
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6	Worklist Smp#:	18
Client ID:	PCV-IA2-B16				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D
Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME
Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6
Client ID: PCV-IA2-B16
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

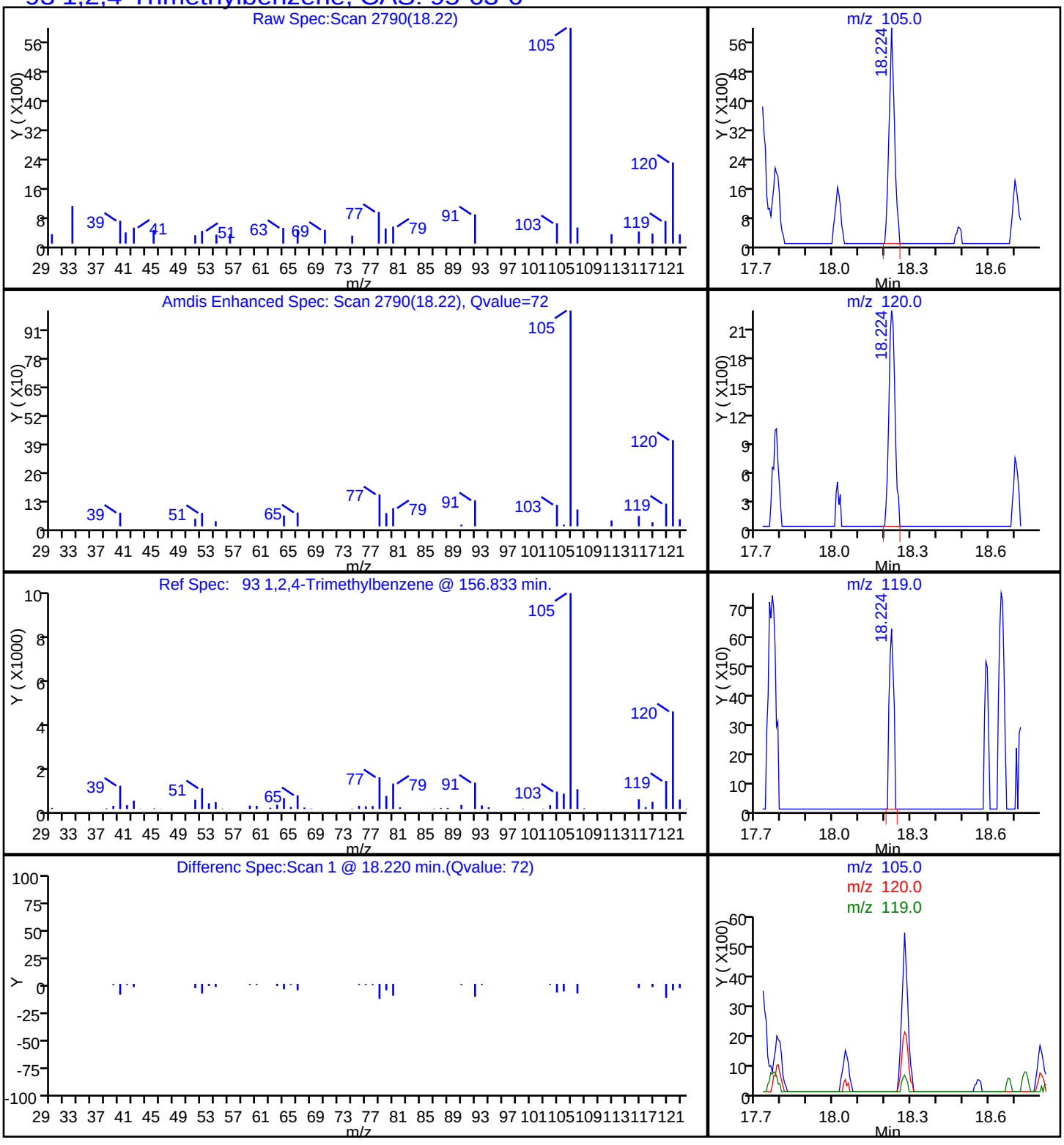


Report Date: 14-Mar-2014 07:26:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D				
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

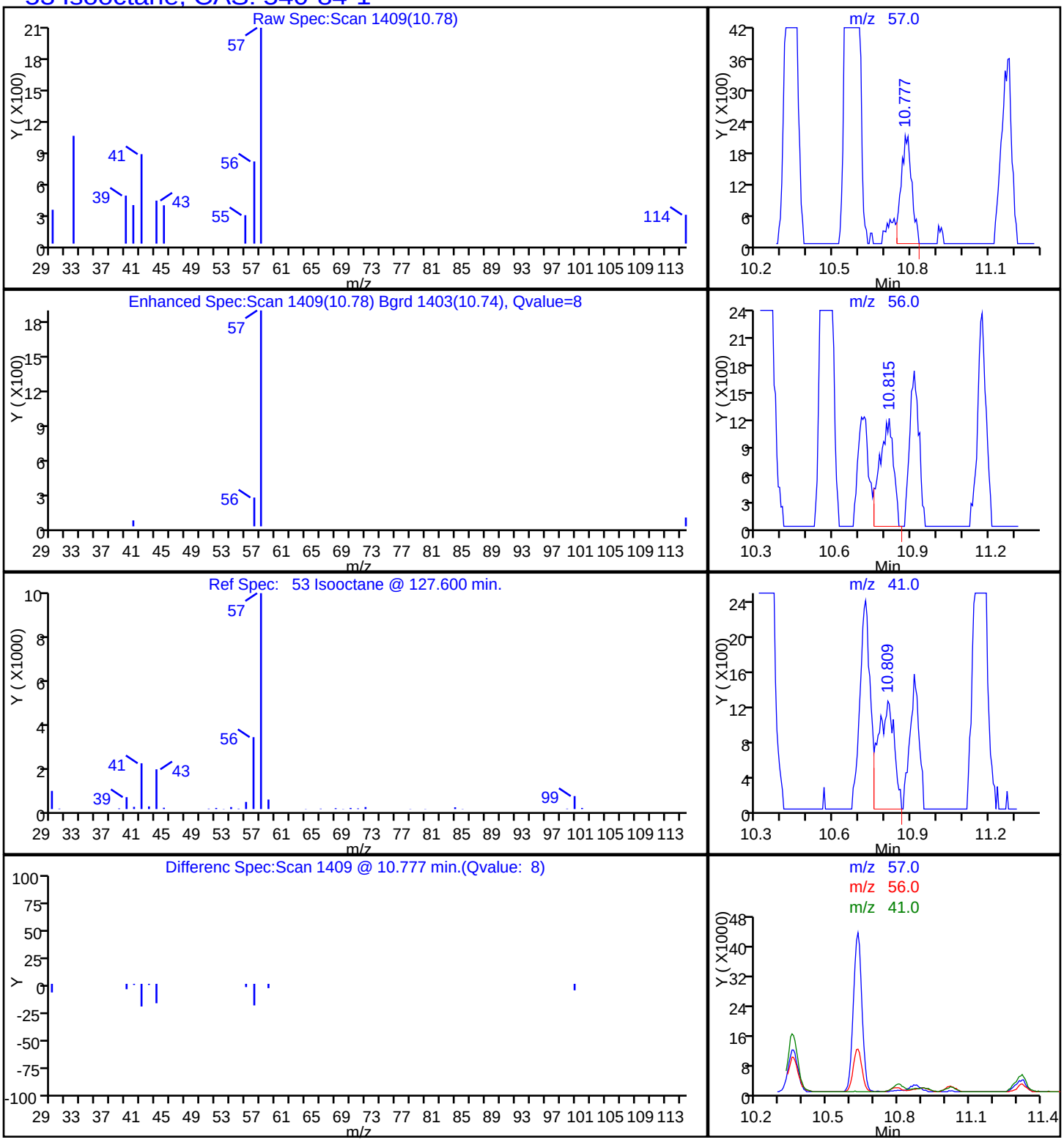


Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D		
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



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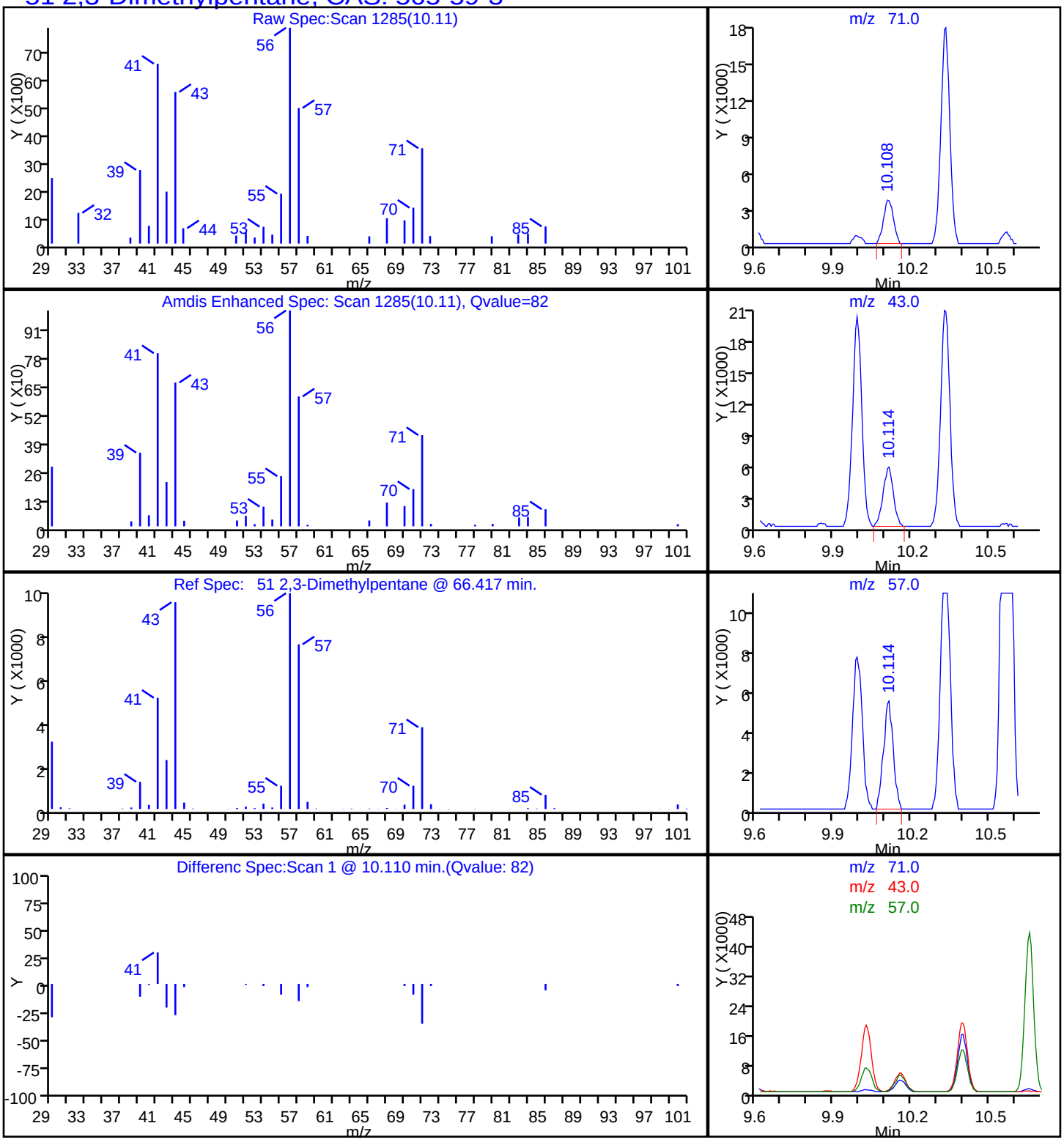
Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME
Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6
Client ID: PCV-IA2-B16
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

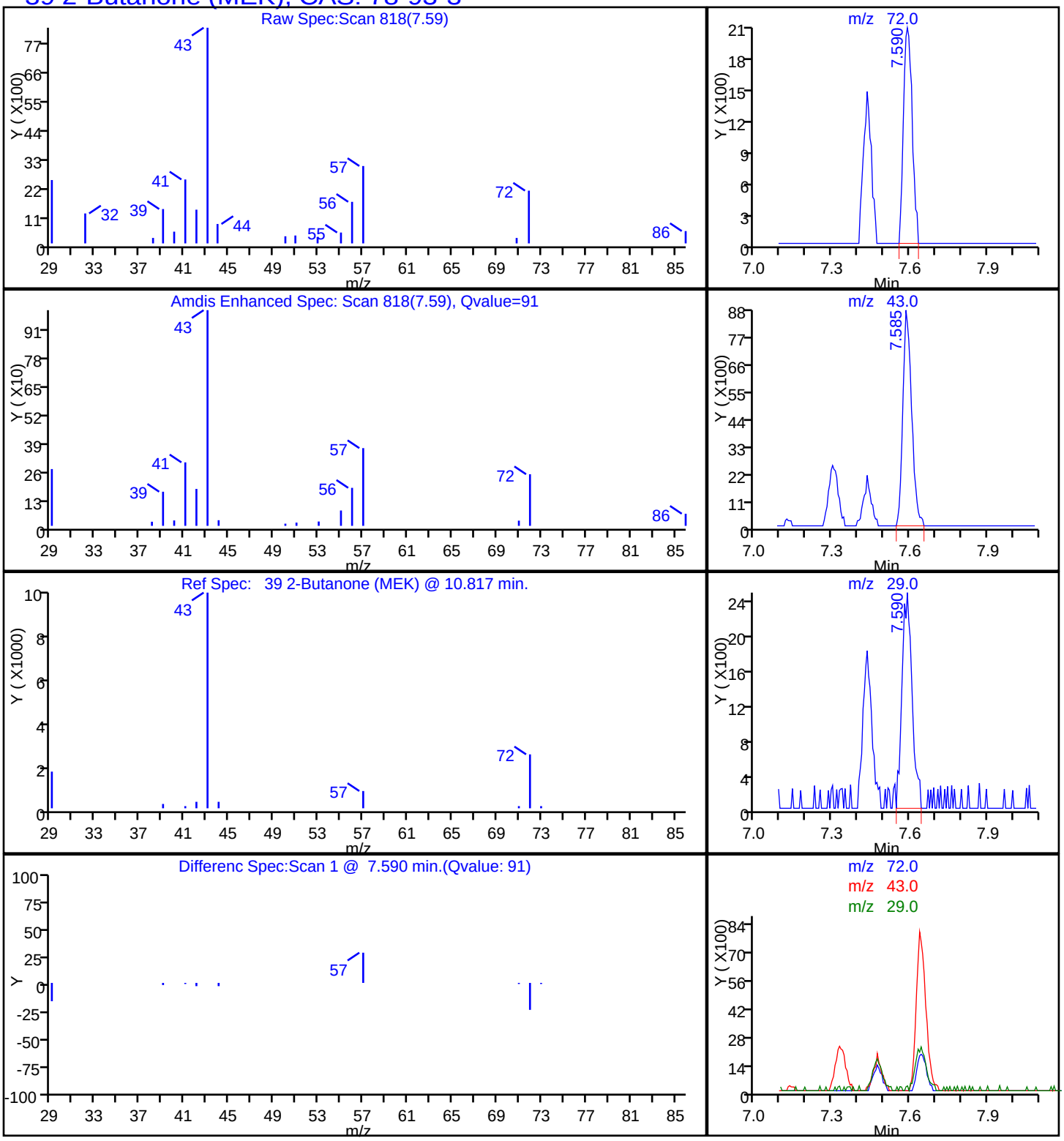
51 2,3-Dimethylpentane, CAS: 565-59-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D		
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



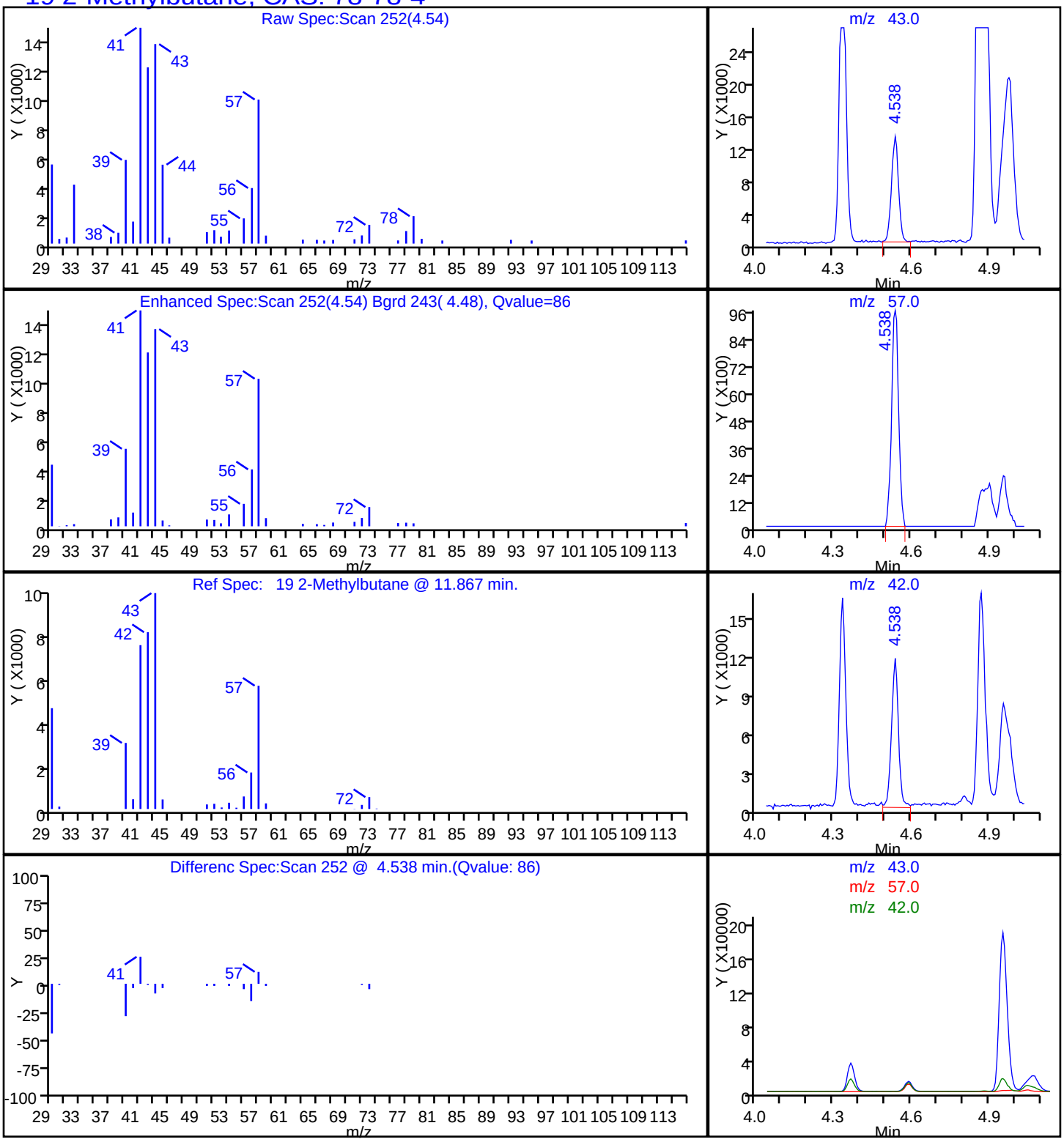
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



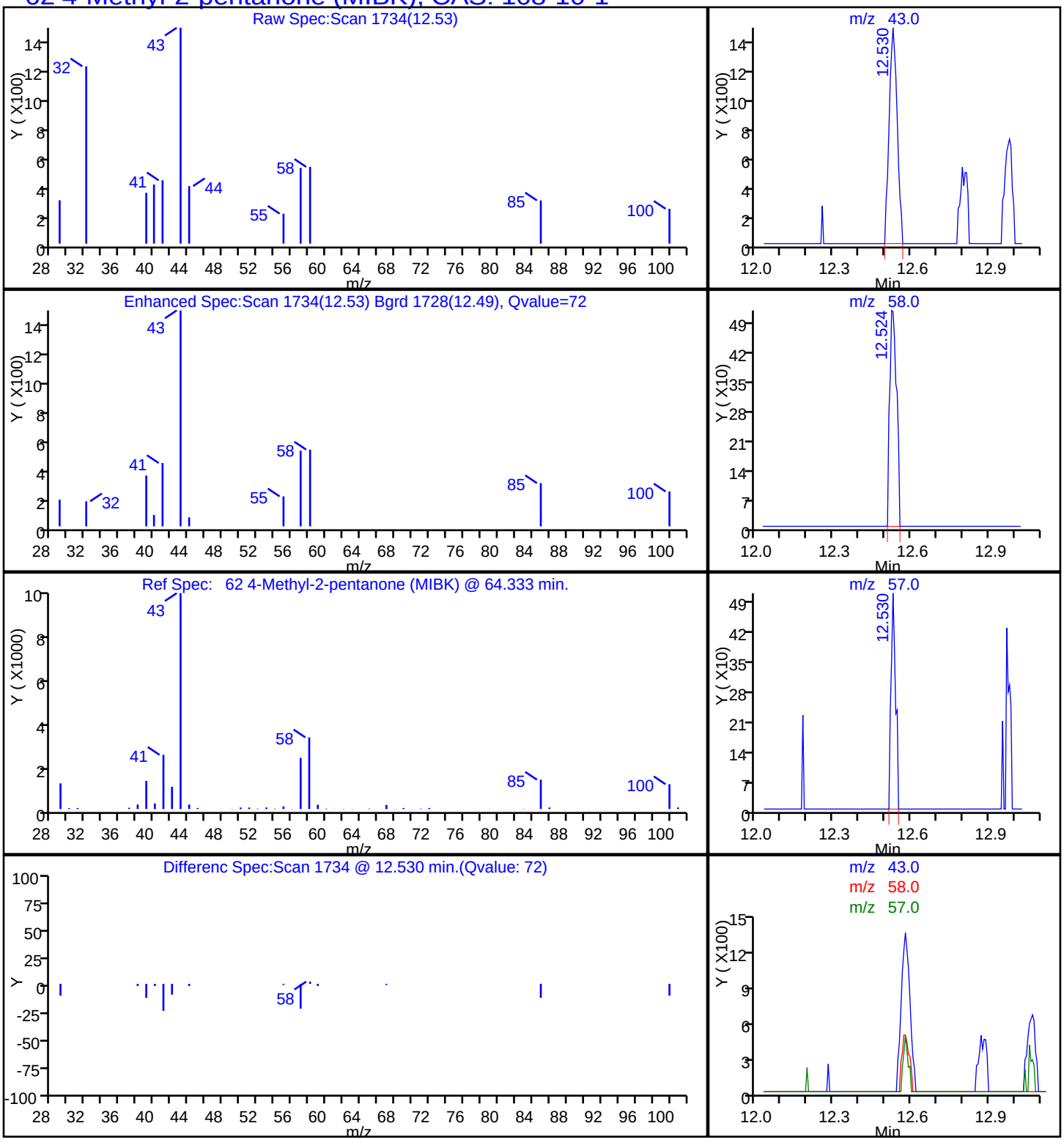
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



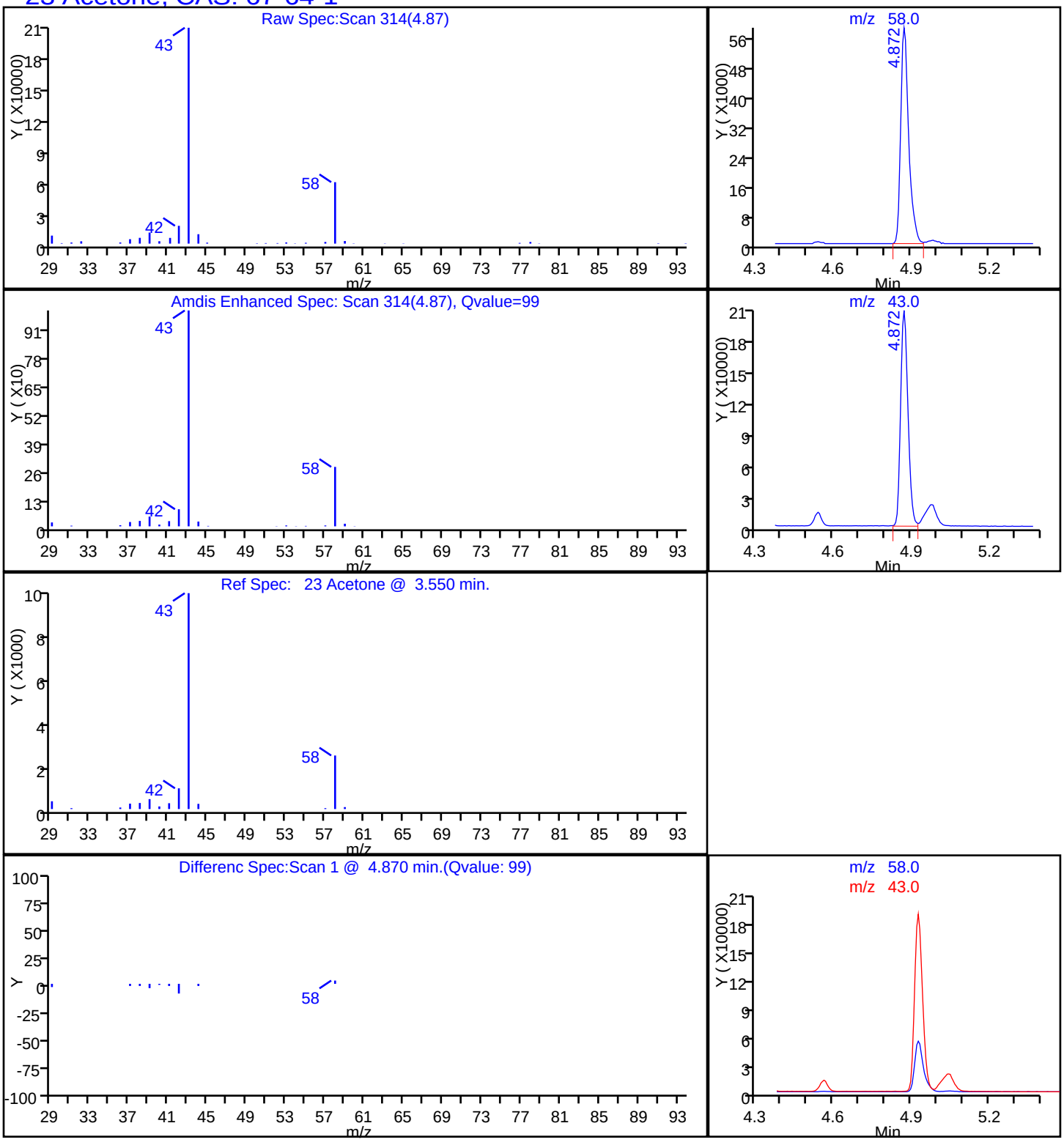
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

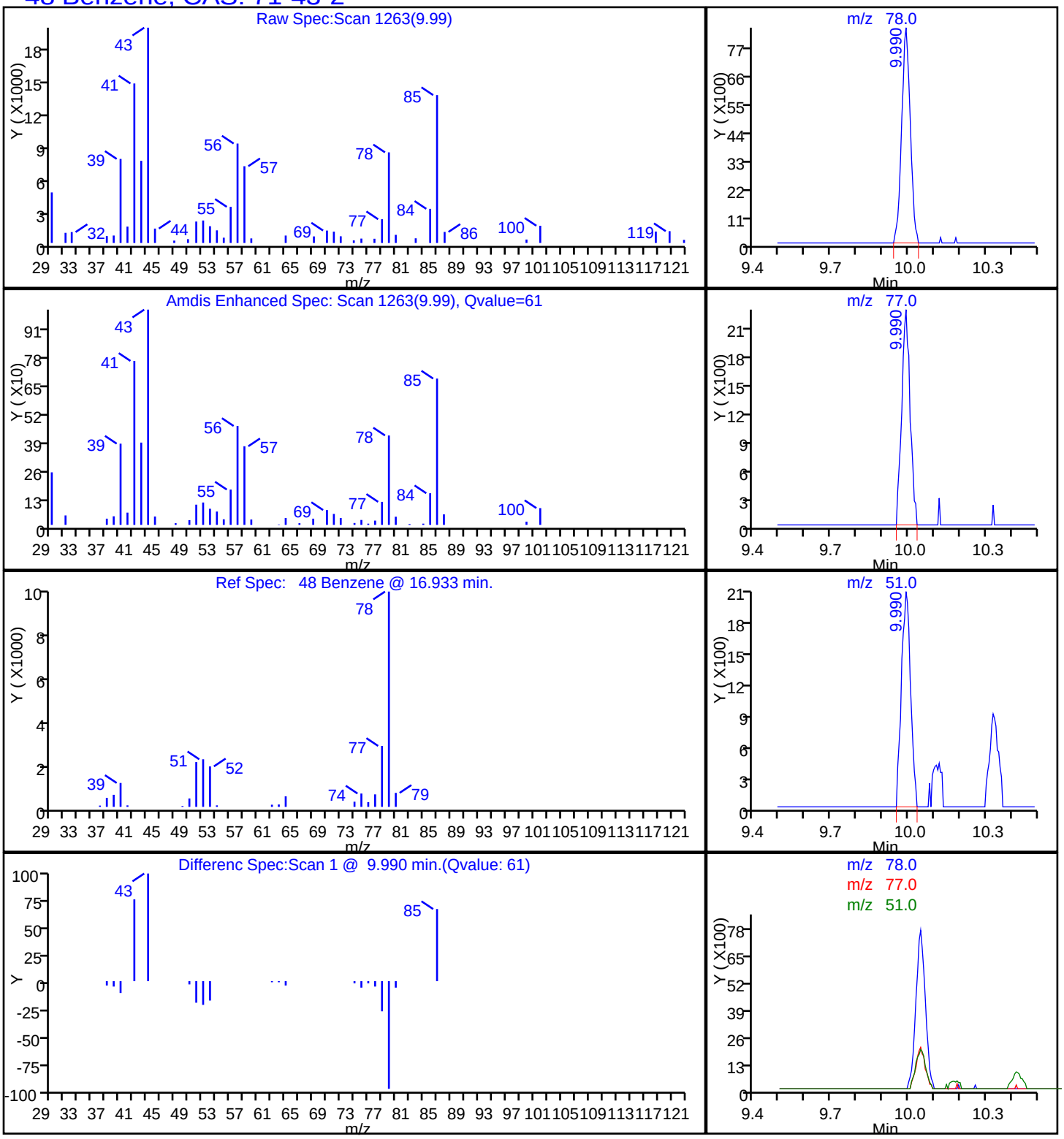


Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D				
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



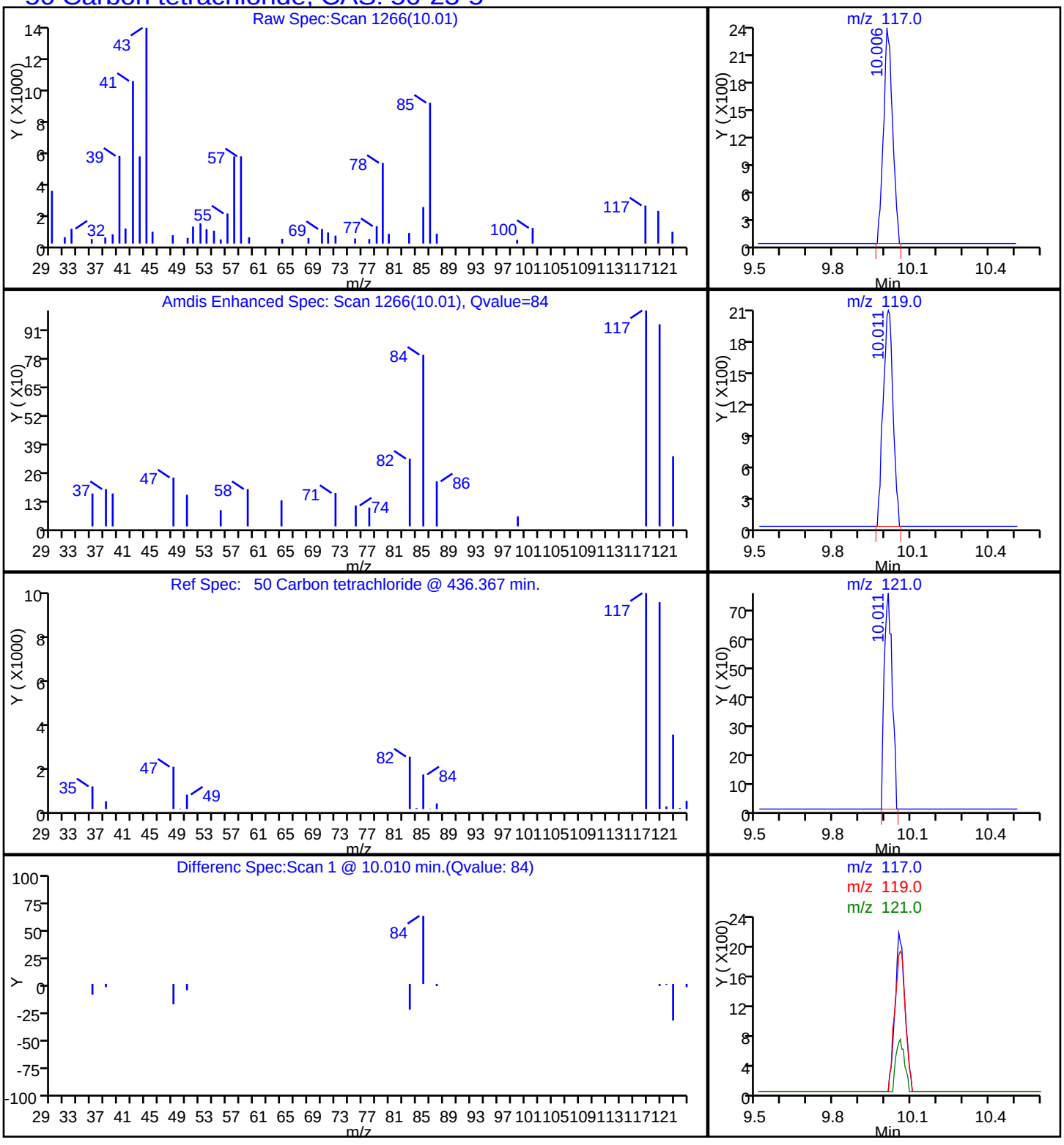
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME

Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6

Client ID: PCV-IA2-B16

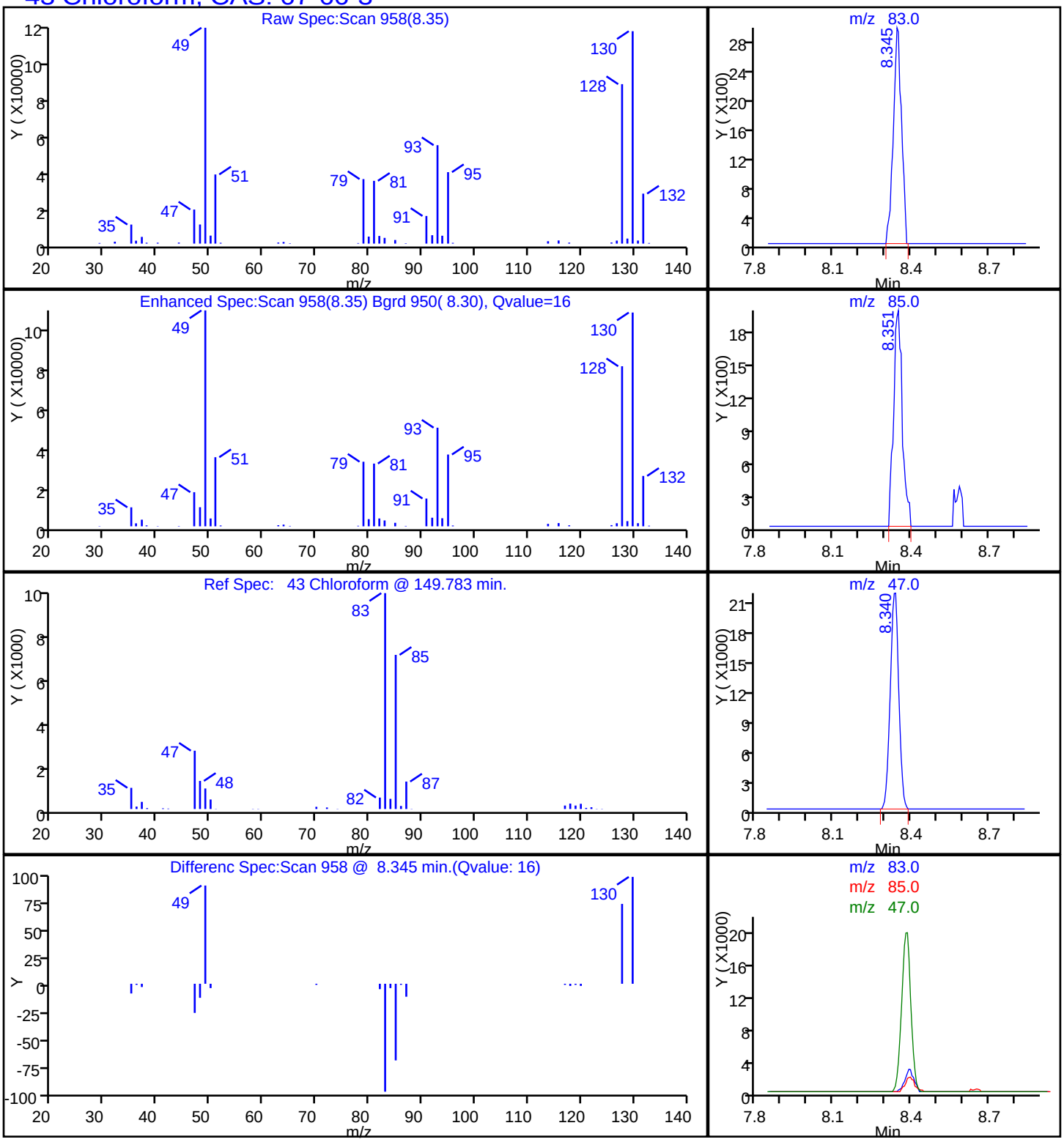
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

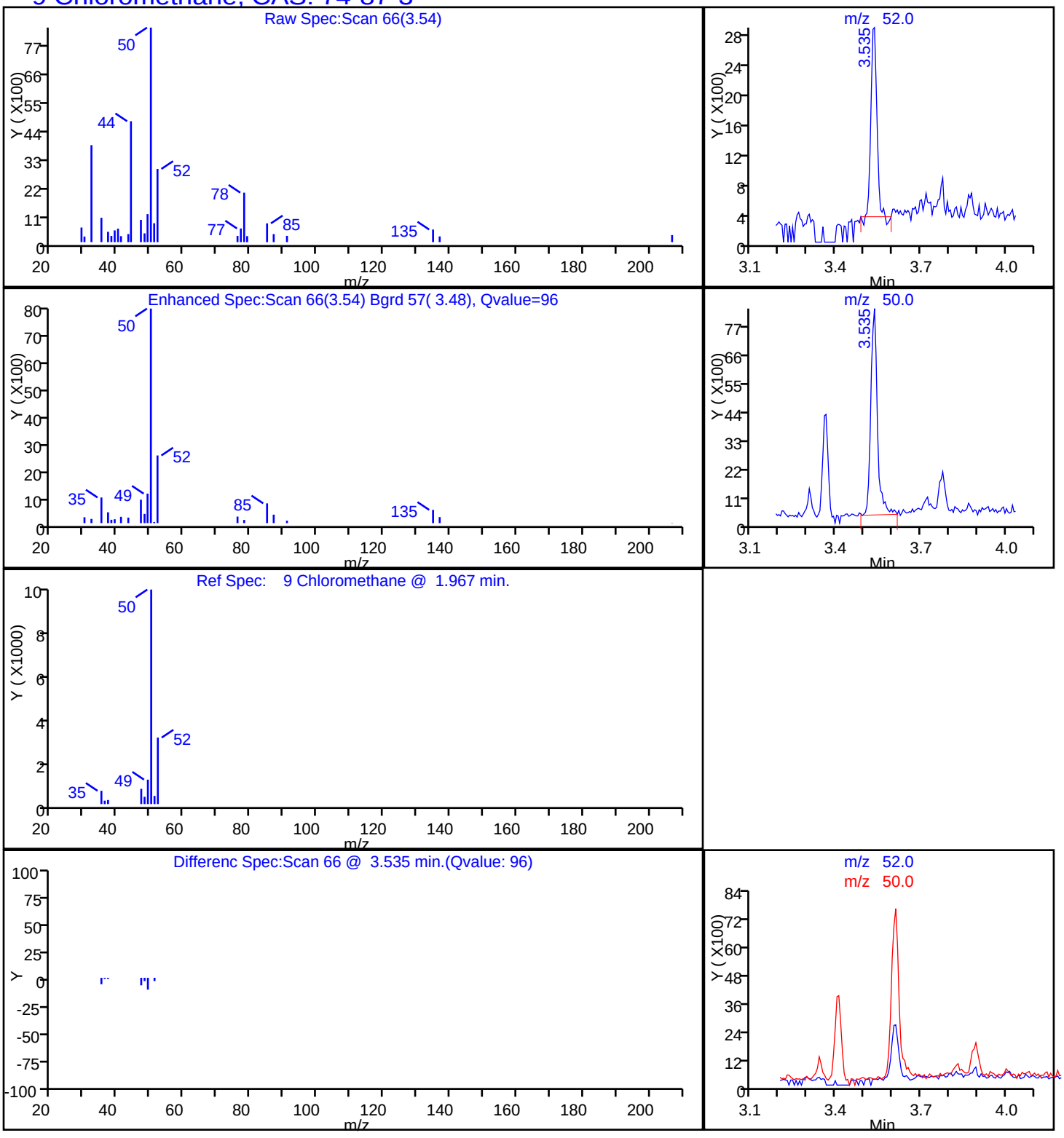
Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D
Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME
Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6
Client ID: PCV-IA2-B16
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME

Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6

Client ID: PCV-IA2-B16

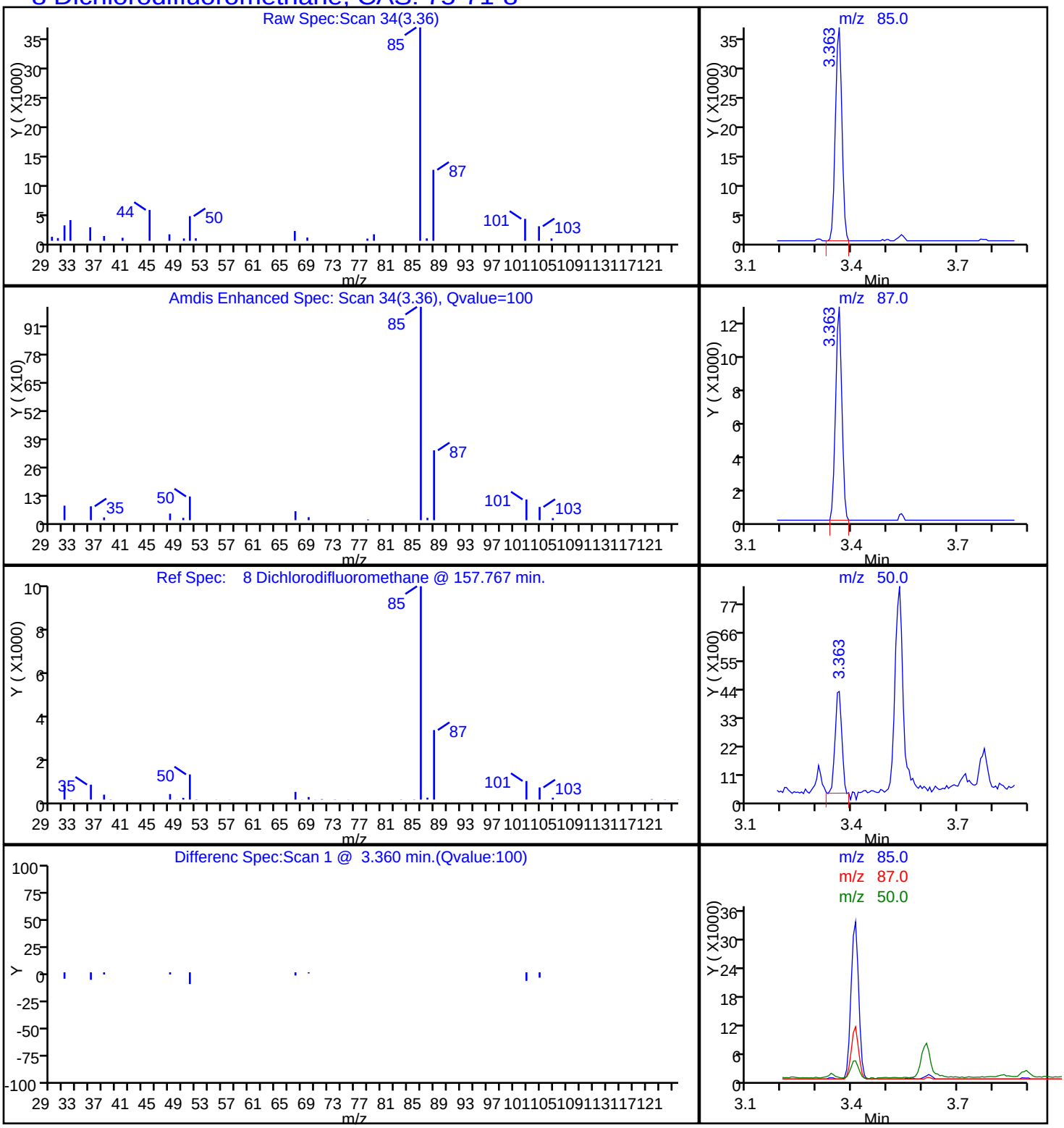
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



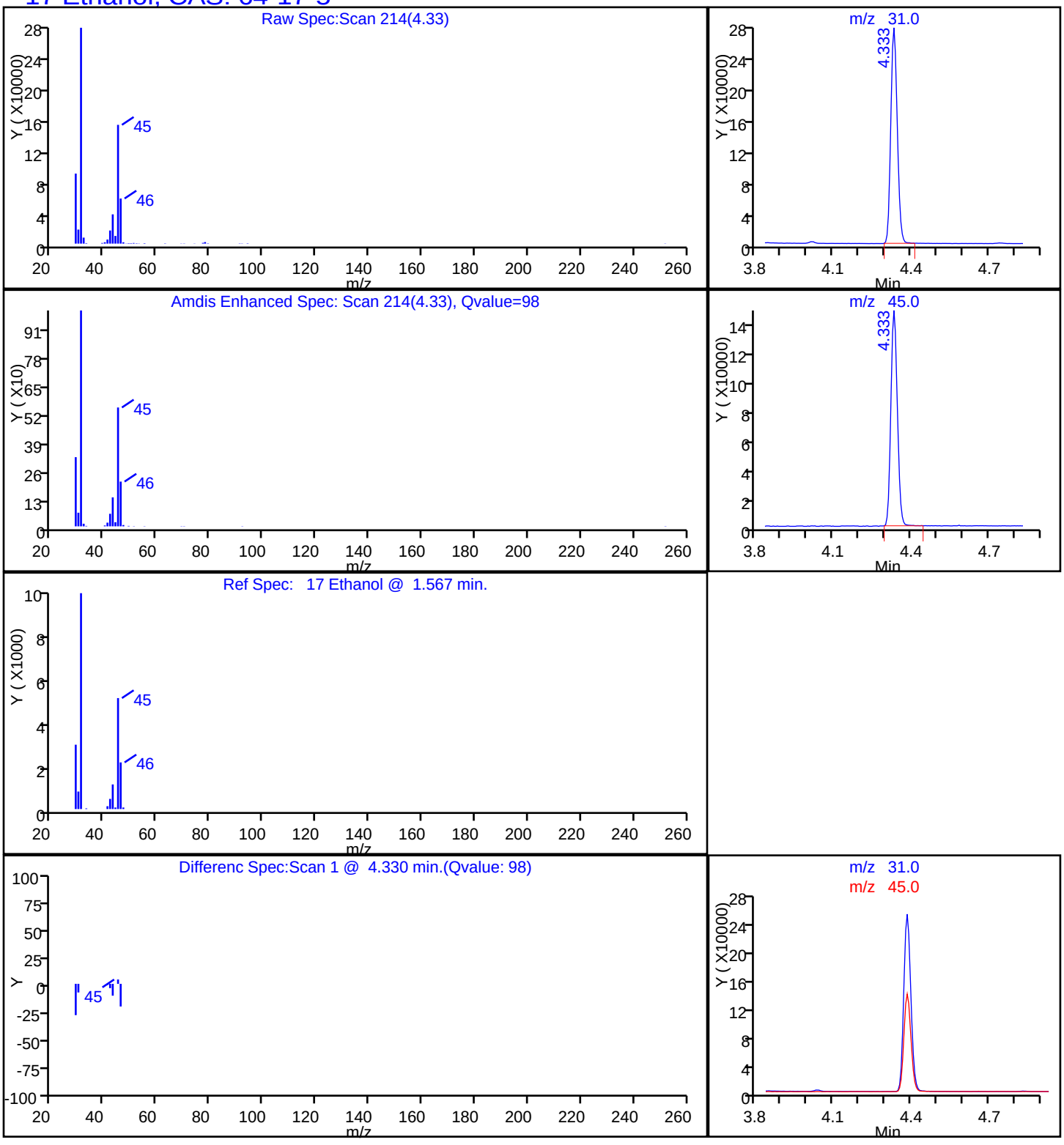
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



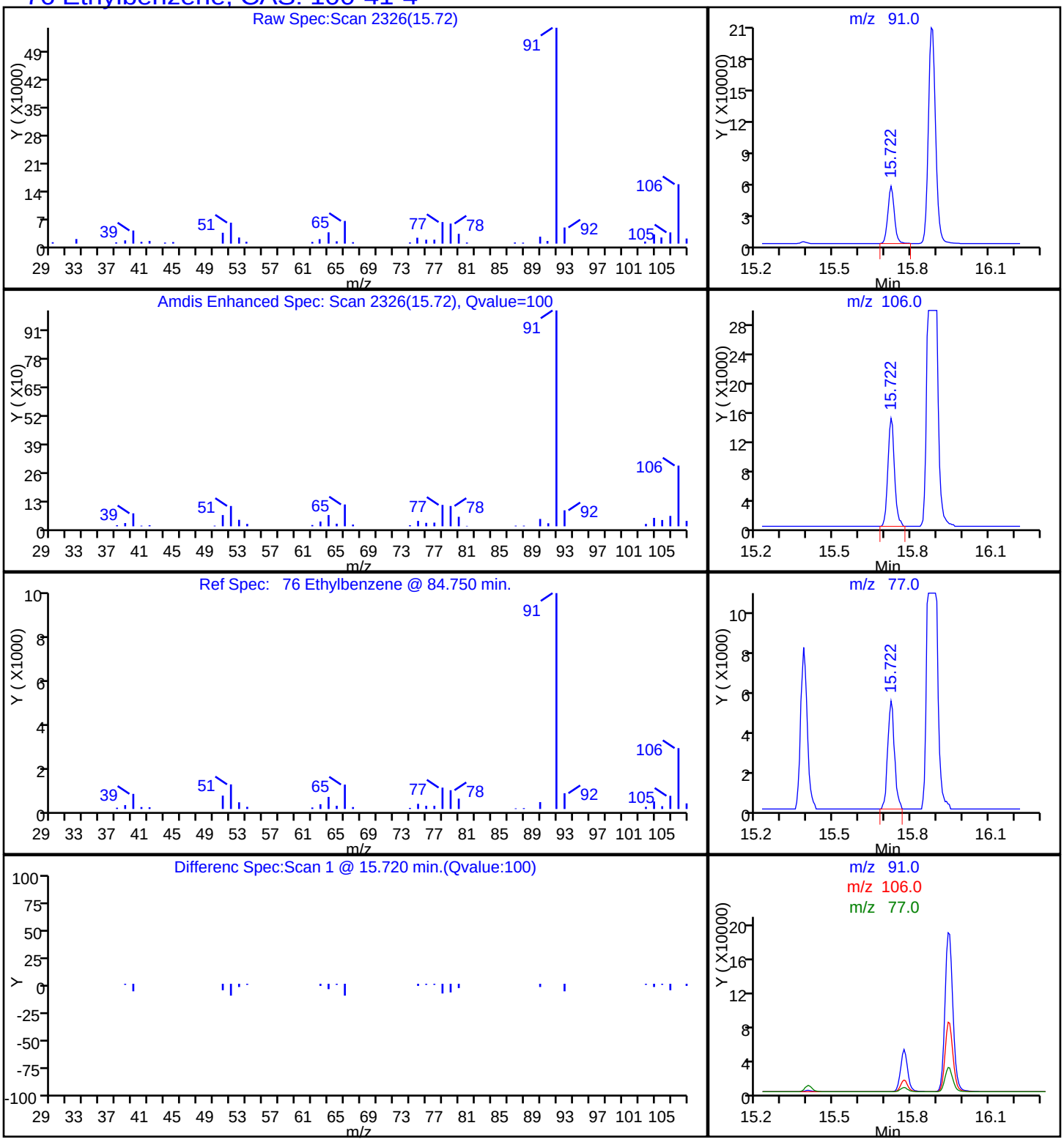
Report Date: 14-Mar-2014 07:26:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



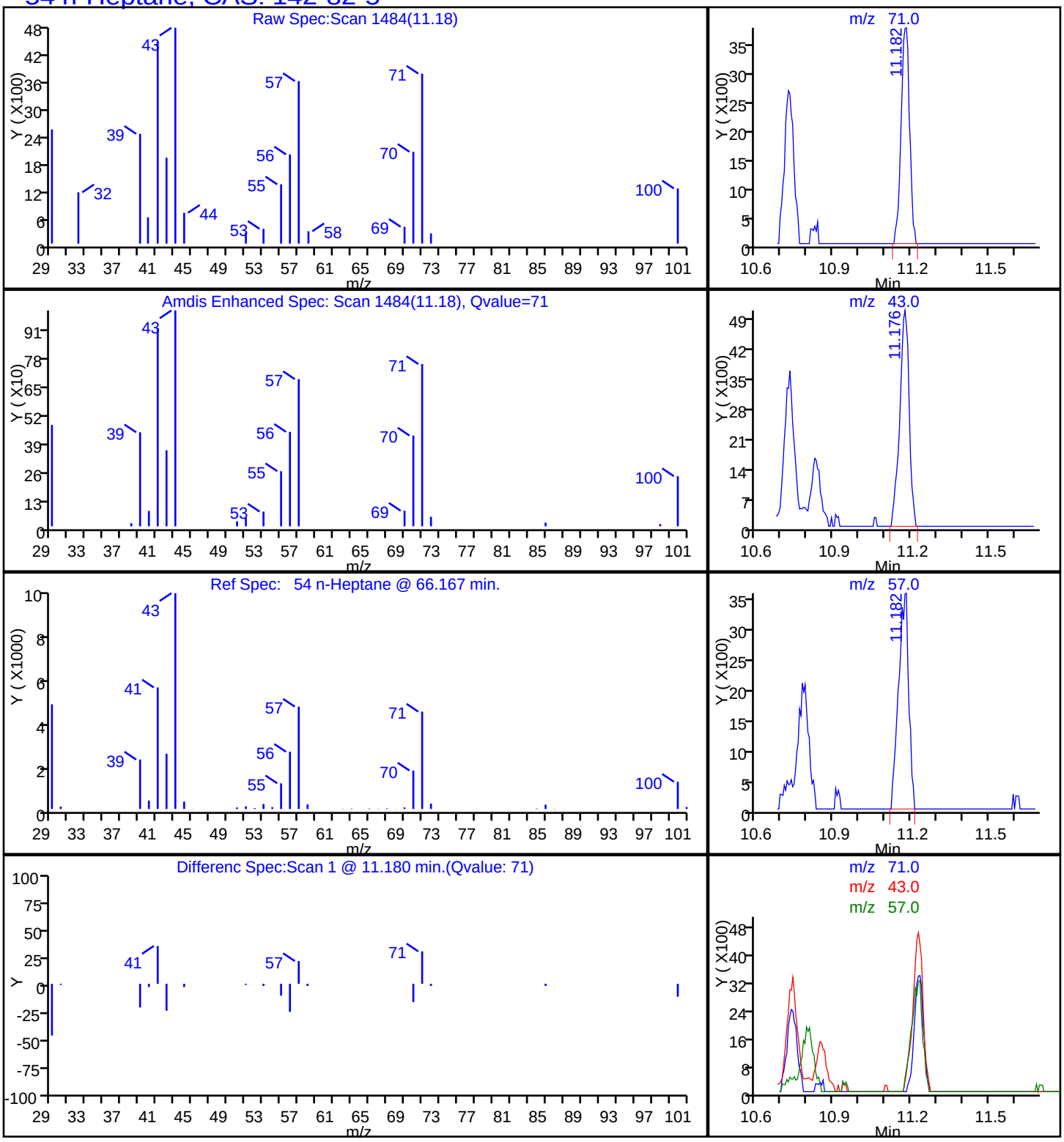
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



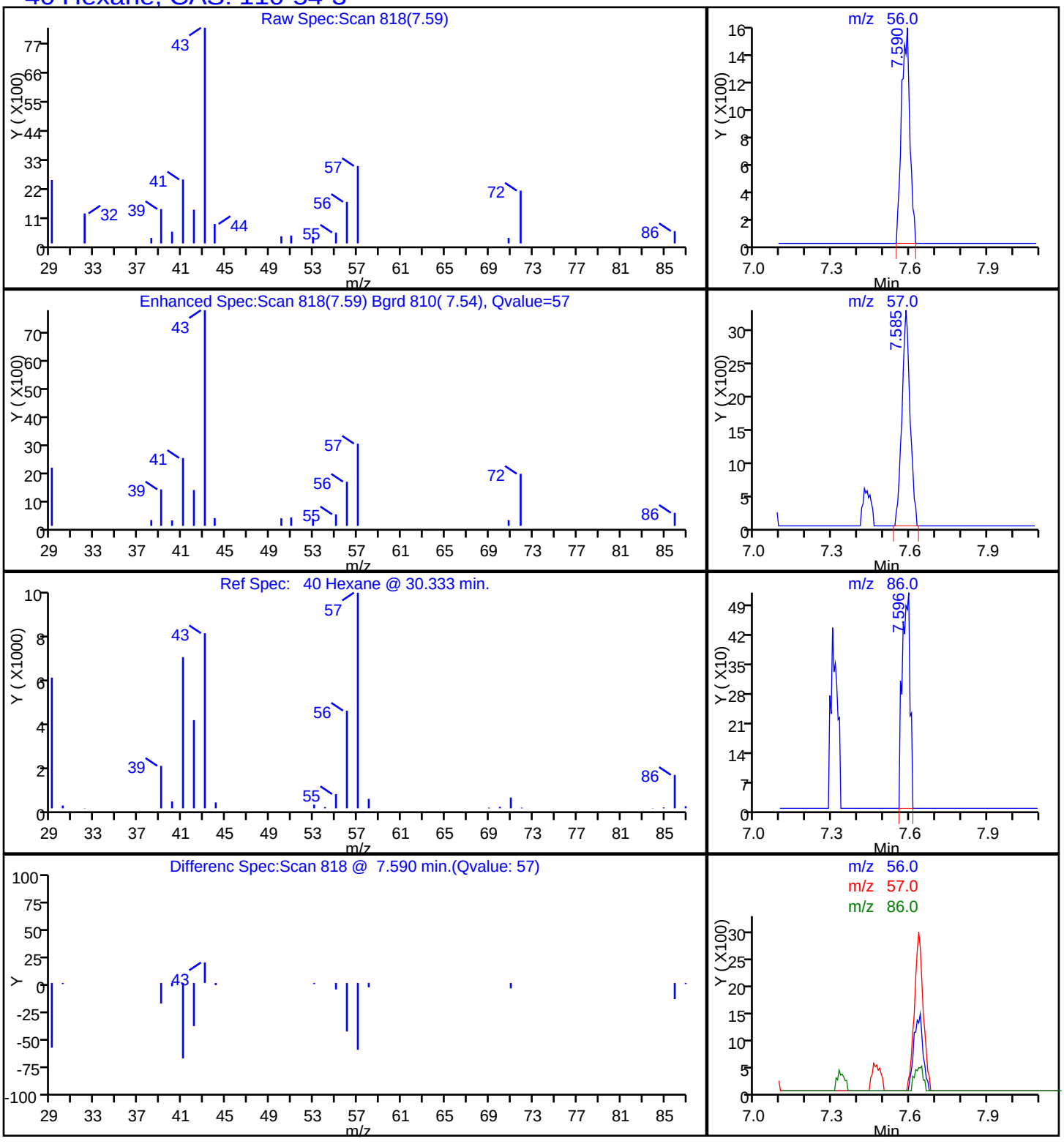
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date: 14-Mar-2014 00:15:30 Instrument ID: ME

Lims ID: 140-1037-A-6 Lab Sample ID: 140-1037-6

Client ID: PCV-IA2-B16

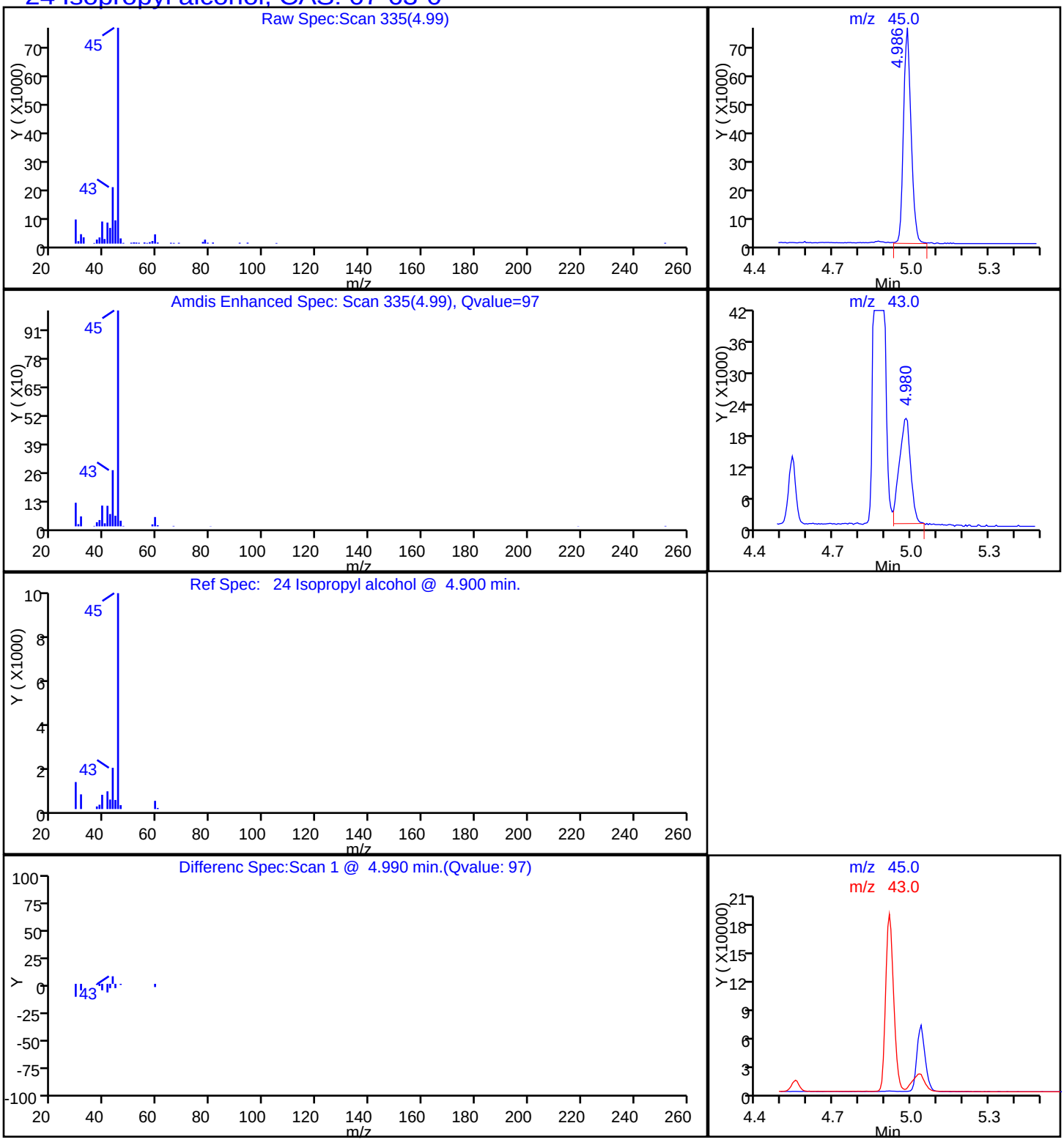
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



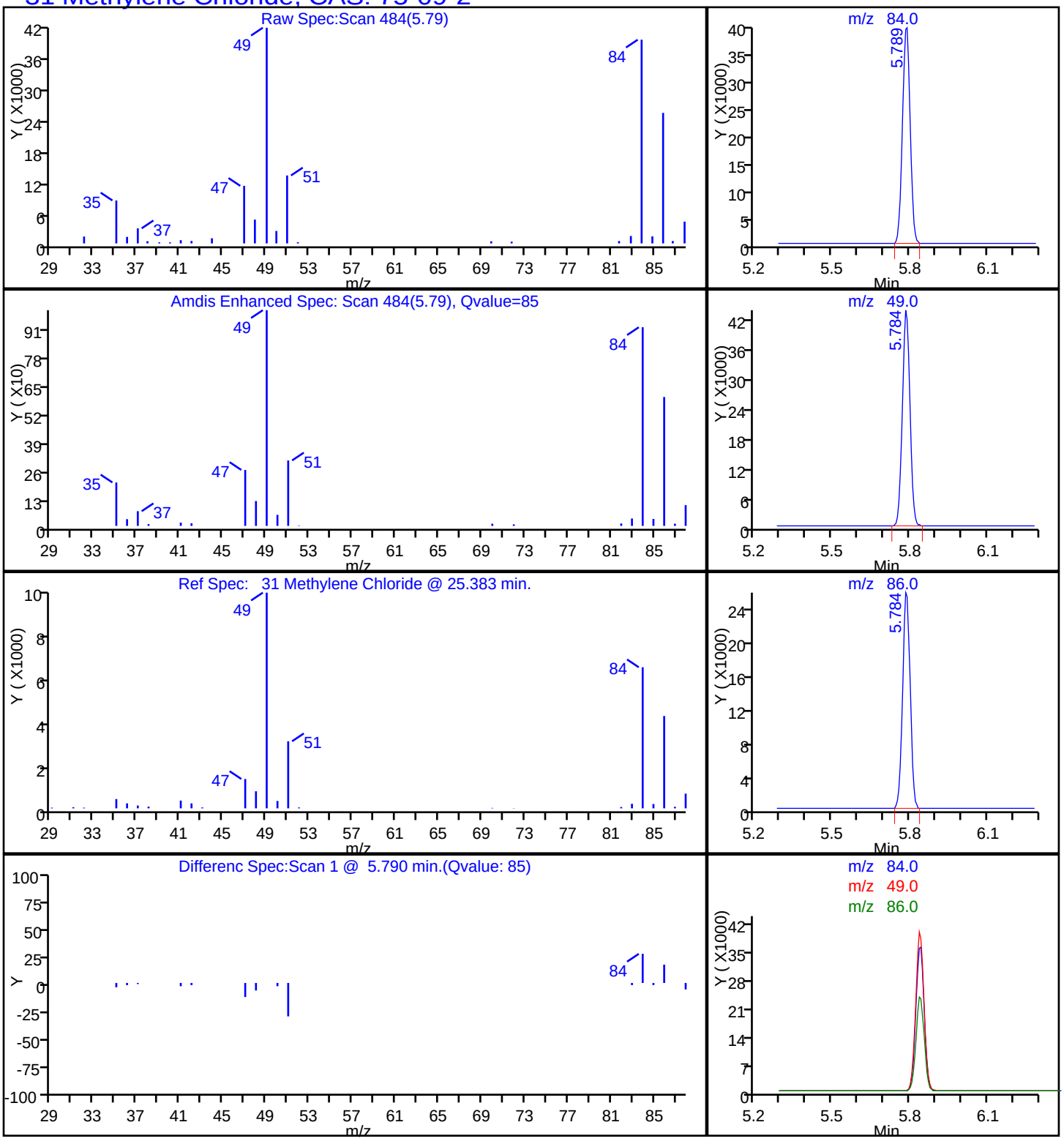
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



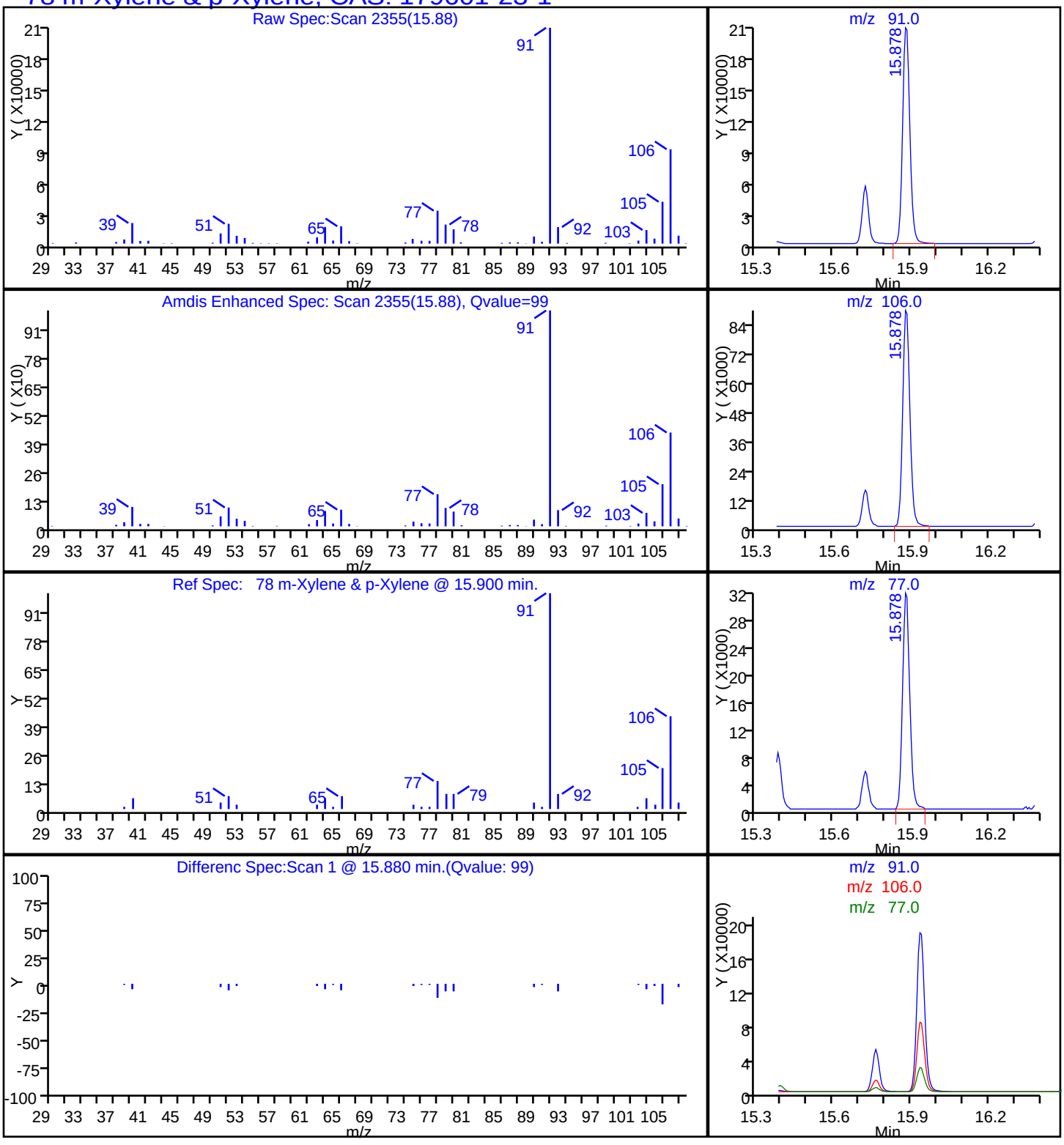
Report Date: 14-Mar-2014 07:26:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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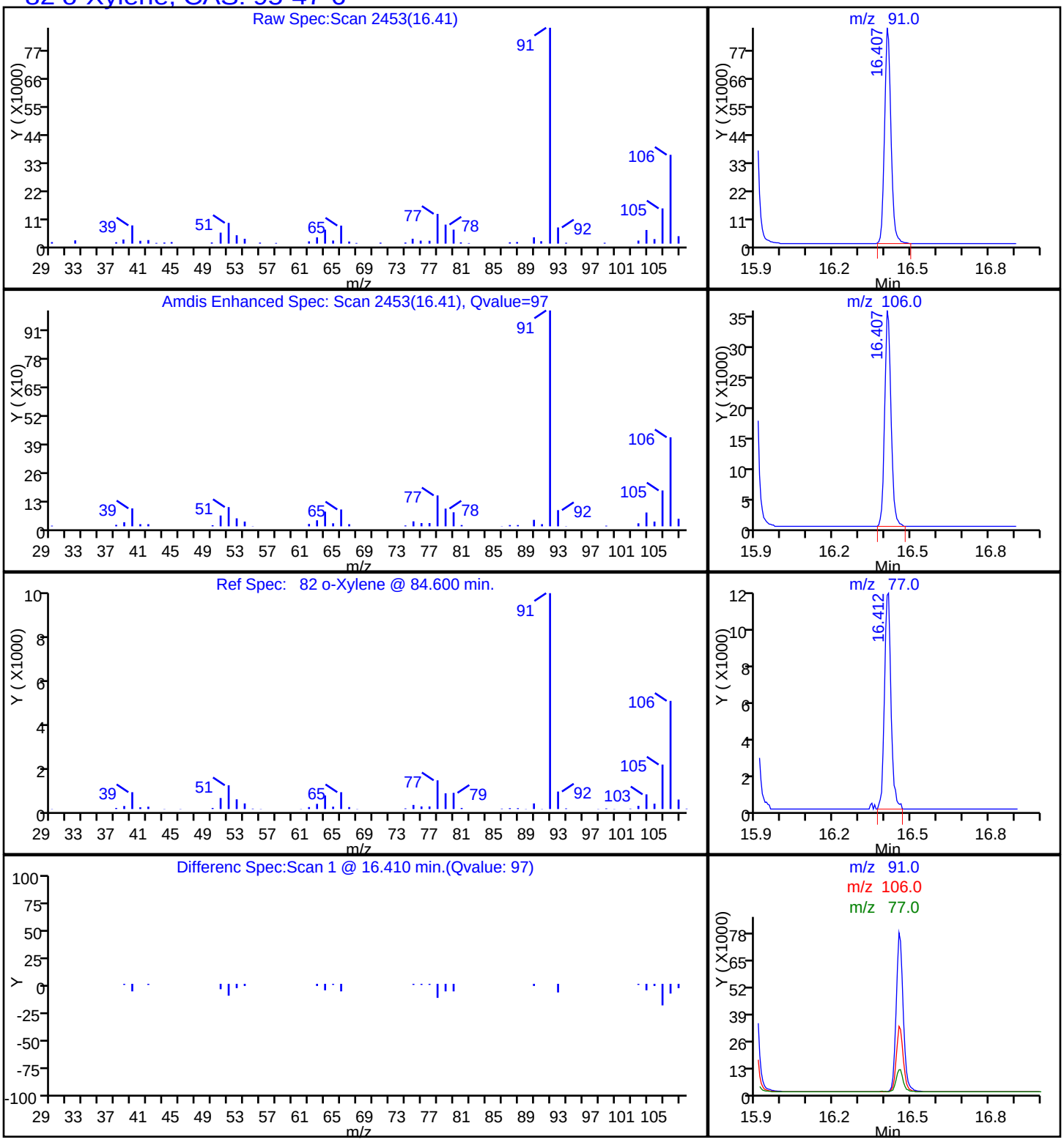
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



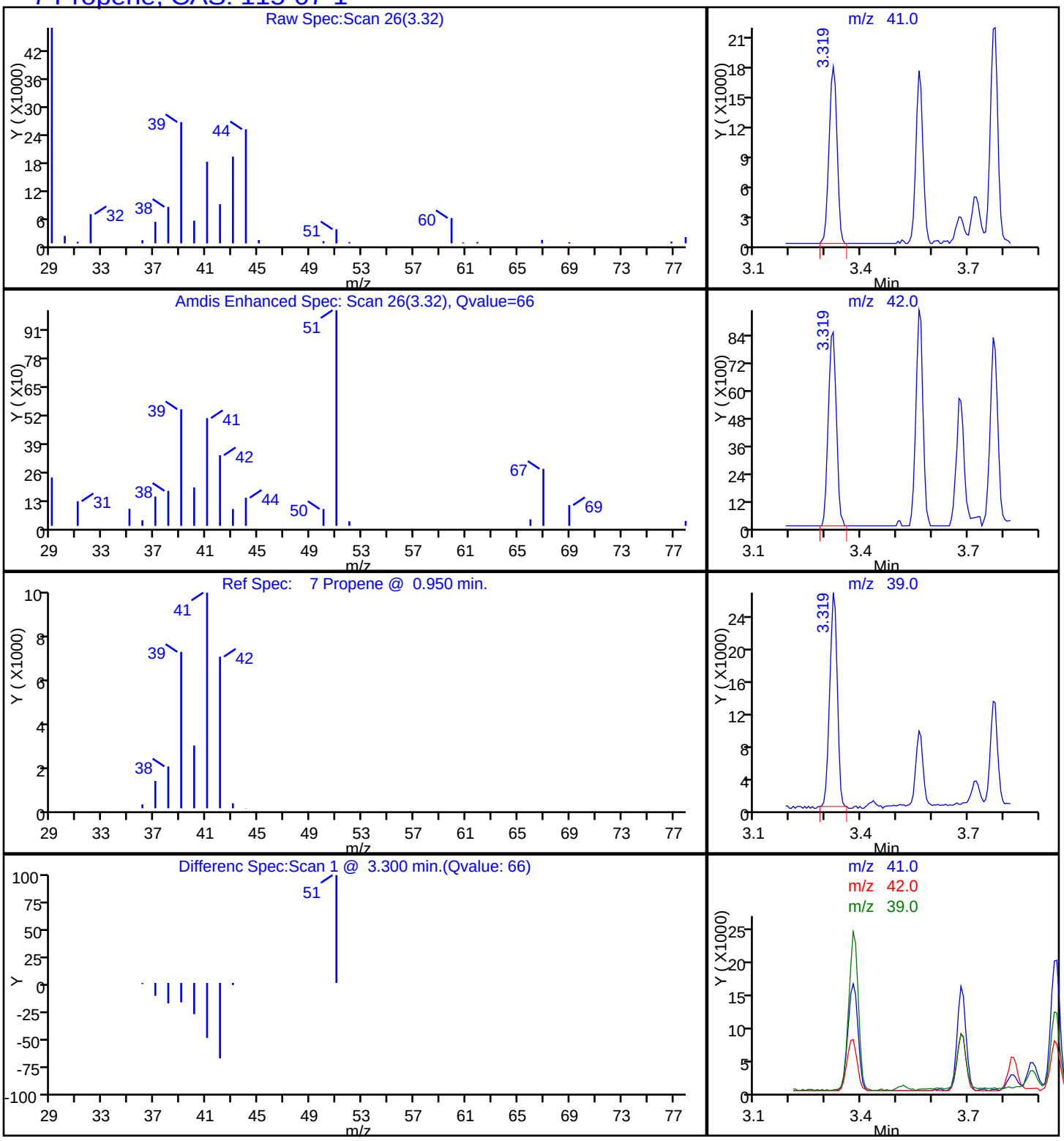
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6
Client ID:	PCV-IA2-B16		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



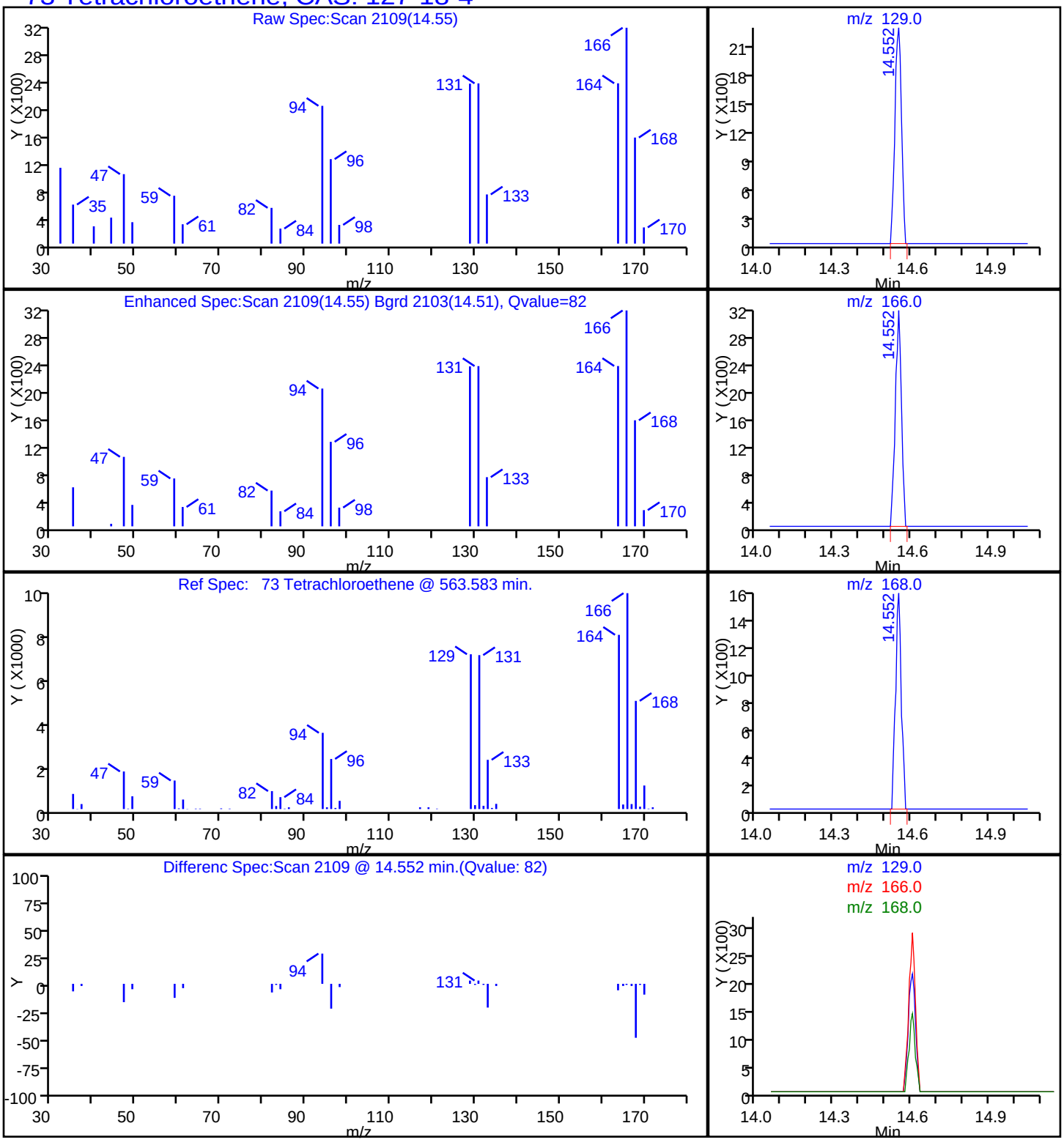
Report Date: 14-Mar-2014 07:26:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



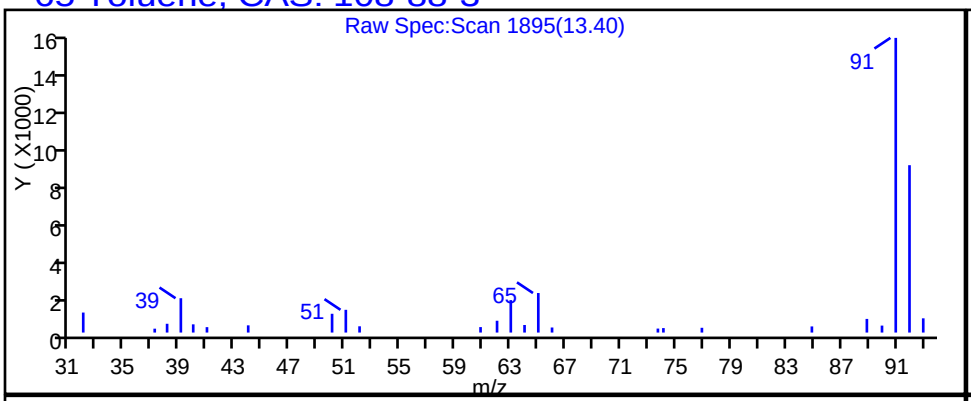
Report Date: 14-Mar-2014 07:26:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

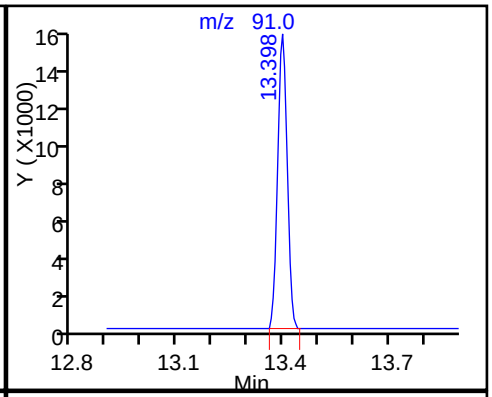
TestAmerica Knoxville

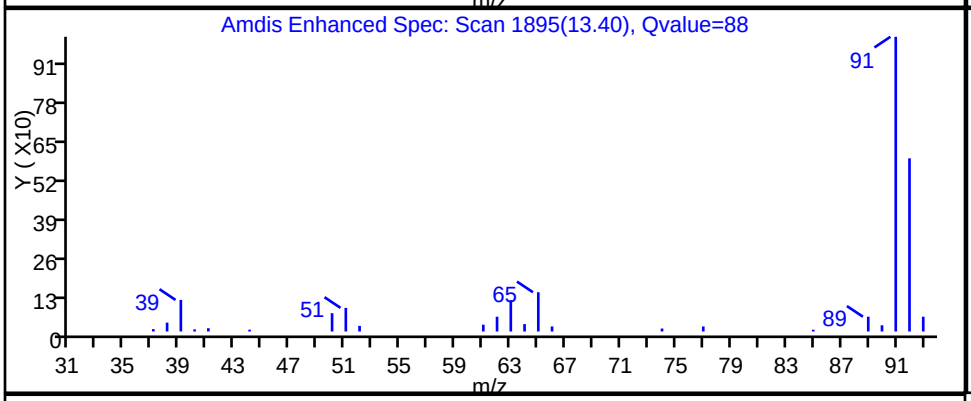
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

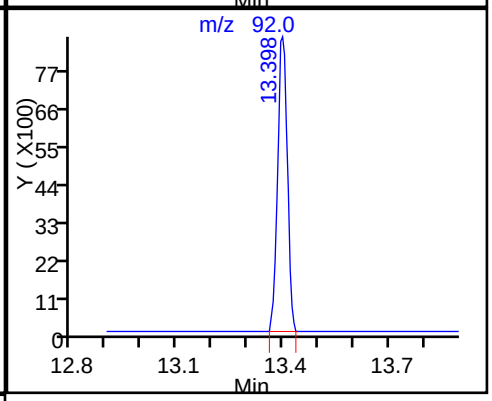
Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

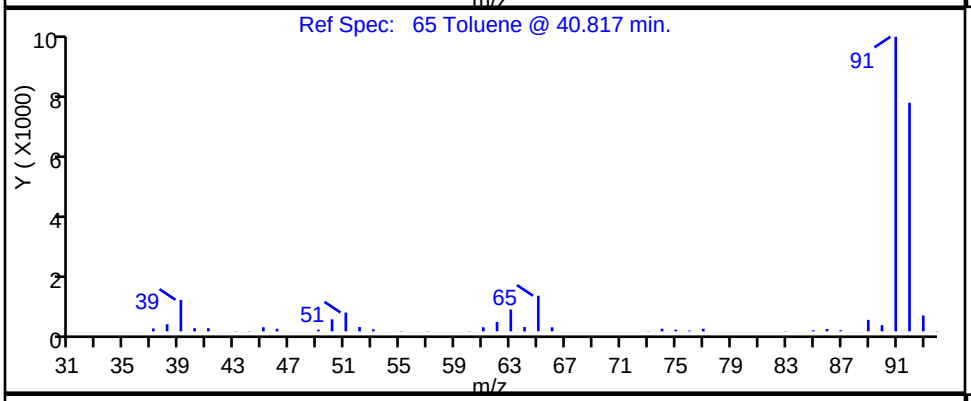
65 Toluene, CAS: 108-88-3

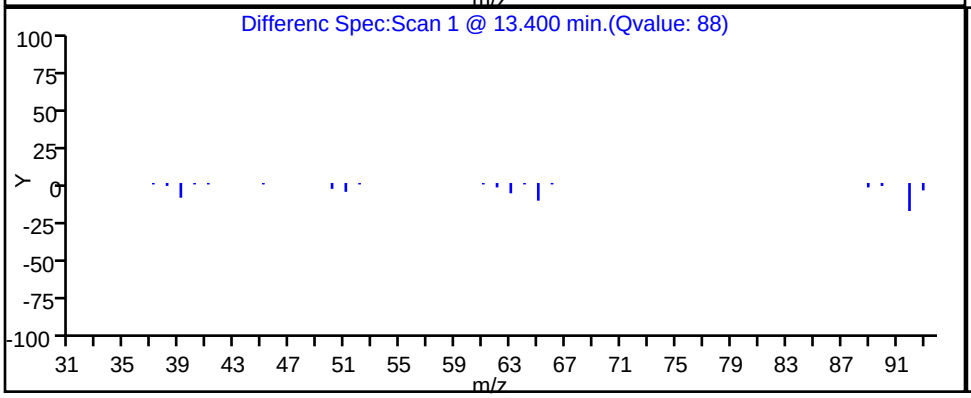


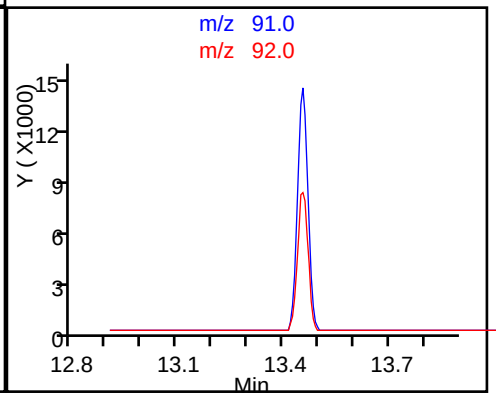












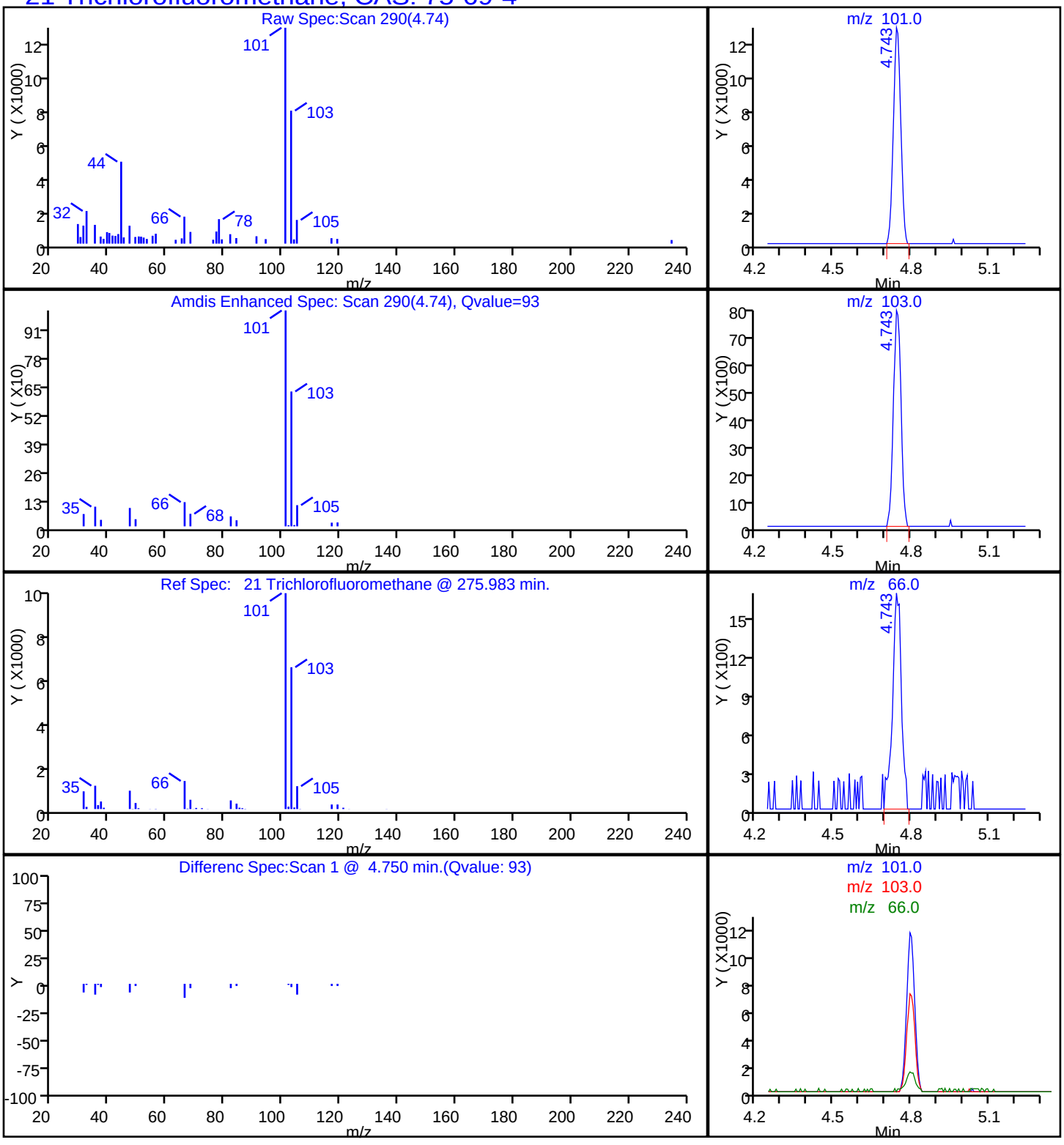
Report Date: 14-Mar-2014 07:26:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P112.D

Injection Date:	14-Mar-2014 00:15:30	Instrument ID:	ME		
Lims ID:	140-1037-A-6	Lab Sample ID:	140-1037-6		
Client ID:	PCV-IA2-B16				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.099	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.38	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.72		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	4.2	J	5.0	1.4
71-43-2	Benzene	78.11	0.26		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.037	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.062	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.046	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.47	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.045	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	27		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.13	J	0.20	0.068
142-82-5	Heptane	100.21	0.12	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.26	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.70		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.65		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.25		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.085	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.36		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.49	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	10	J	12	3.3
71-43-2	Benzene	78.11	0.83		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.11	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.39	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.23	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.97	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.15	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	51		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.57	J	0.87	0.30
142-82-5	Heptane	100.21	0.48	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.92	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.3	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.4		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.8		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.1		0.87	0.26
115-07-1	Propene	42.08	2.5	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.58	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B16 Lab Sample ID: 140-1037-7

Matrix: Air Lab File ID: EC13P113.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D
Lims ID: 140-1037-A-7 Lab Sample ID: 140-1037-7
Client ID: PCV-IA1-B16
Sample Type: Client
Inject. Date: 14-Mar-2014 01:01:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-7
Misc. Info.: E031314,TO155,,140-0000518-019
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:27:13 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:27:13

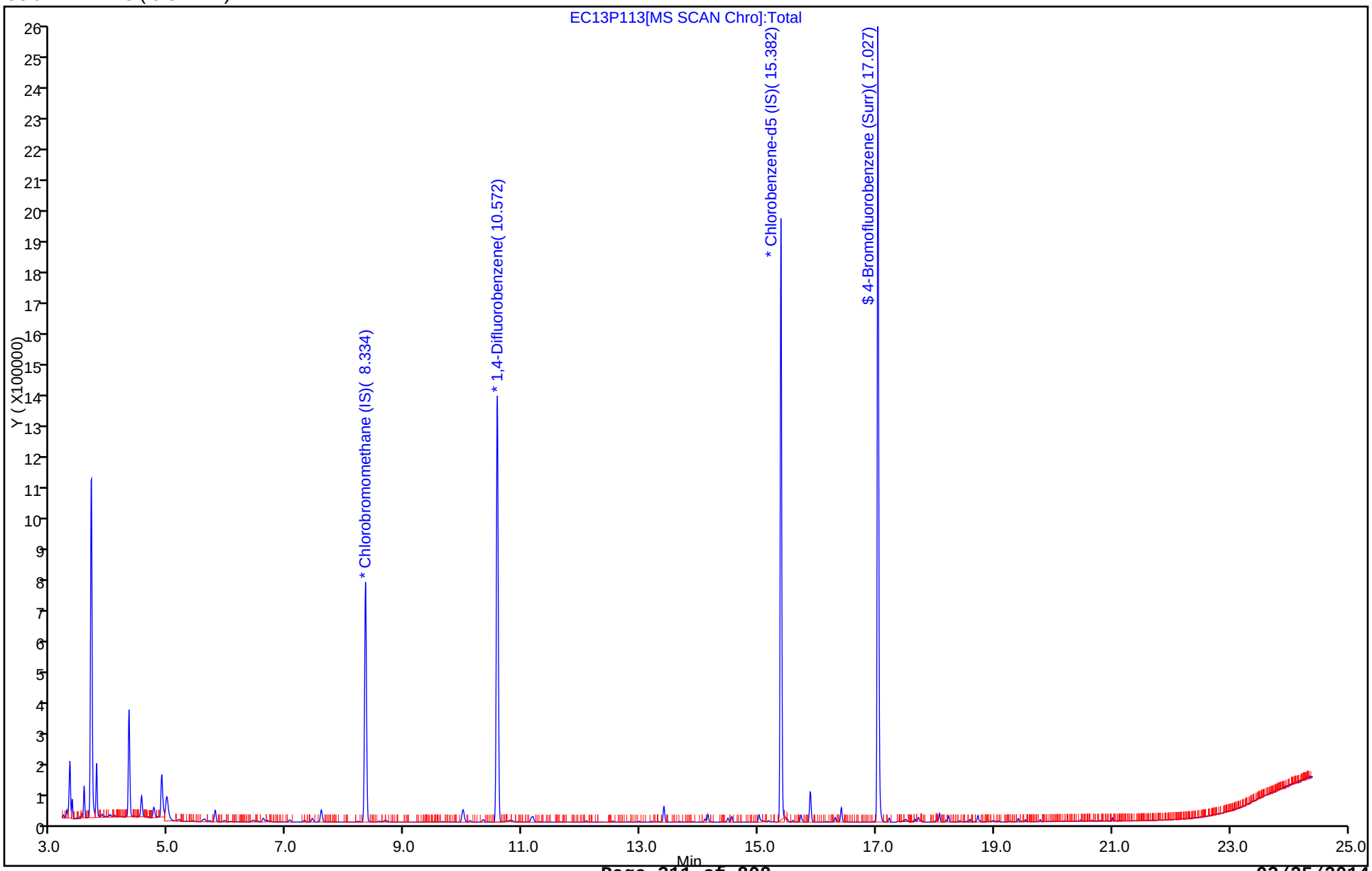
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	232718	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1126151	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	978834	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	871015	4.06	
7 Propene	41	3.319	3.309	0.010	76	33455	0.5715	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	99	44422	0.1726	
9 Chloromethane	52	3.535	3.530	0.005	98	3851	0.1874	
17 Ethanol	31	4.322	4.312	0.010	98	254066	10.9	
19 2-Methylbutane	43	4.538	4.538	0.0	87	23549	0.2890	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25584	0.0991	
23 Acetone	58	4.878	4.878	0.0	93	59365	1.68	
24 Isopropyl alcohol	45	4.975	4.970	0.005	89	49325	0.5435	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	66	4262	0.0267	
31 Methylene Chloride	84	5.789	5.789	0.0	80	18588	0.2795	
33 Carbon disulfide	76	5.940	5.940	0.0	95	3554	0.0148	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	88	5855	0.1537	
40 Hexane	56	7.585	7.585	0.0	67	6431	0.1039	
43 Chloroform	83	8.345	8.351	-0.006	5	3693	0.0185	
49 Cyclohexane	69	9.974	9.990	-0.016	40	762	0.0179	
48 Benzene	78	9.990	9.995	-0.005	94	23548	0.1039	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	76	5397	0.0248	
53 Isooctane	57	10.782	10.788	-0.006	64	6572	0.0188	
54 n-Heptane	71	11.176	11.182	-0.006	66	4045	0.0472	
65 Toluene	91	13.398	13.403	-0.005	91	37654	0.1436	
73 Tetrachloroethene	129	14.552	14.552	0.0	82	3801	0.0340	
76 Ethylbenzene	91	15.722	15.722	0.0	92	17776	0.0529	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	98	68553	0.2594	
82 o-Xylene	91	16.407	16.412	-0.005	94	29046	0.1017	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	77	11876	0.0395	

Report Date: 14-Mar-2014 07:27:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D				
Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7	Worklist Smp#:	19
Client ID:	PCV-IA1-B16				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date: 14-Mar-2014 01:01:30 Instrument ID: ME

Lims ID: 140-1037-A-7 Lab Sample ID: 140-1037-7

Client ID: PCV-IA1-B16

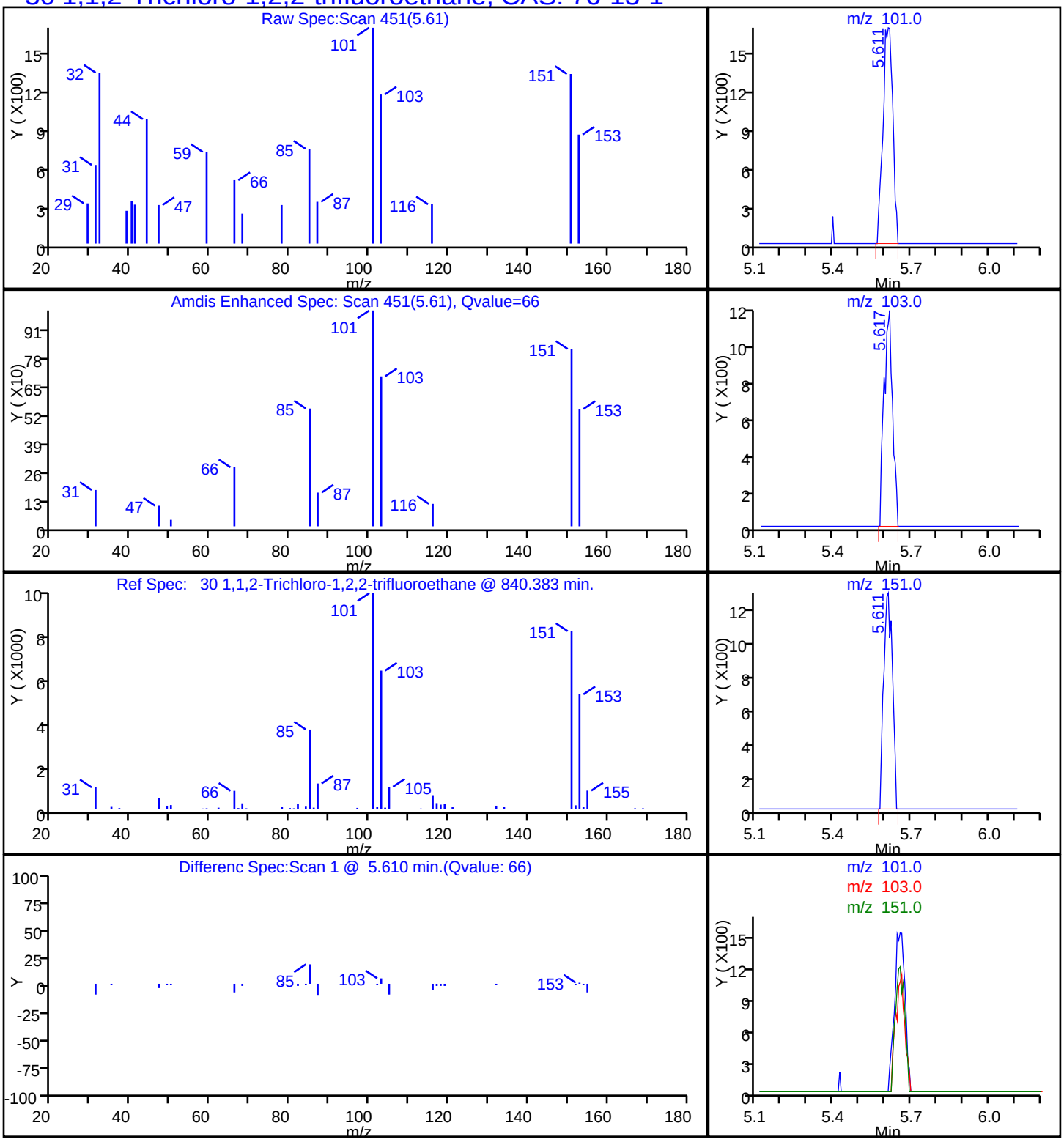
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



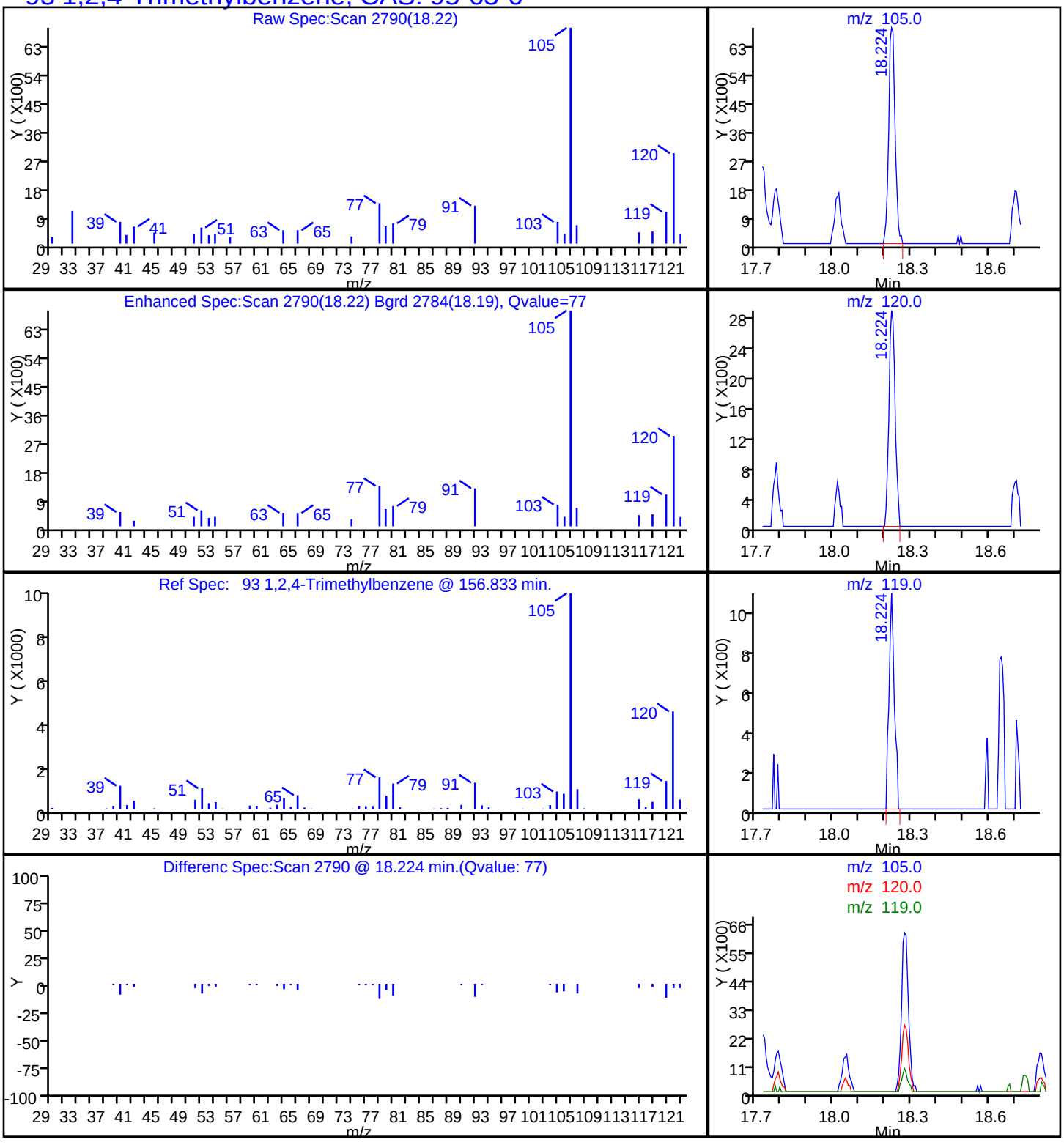
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



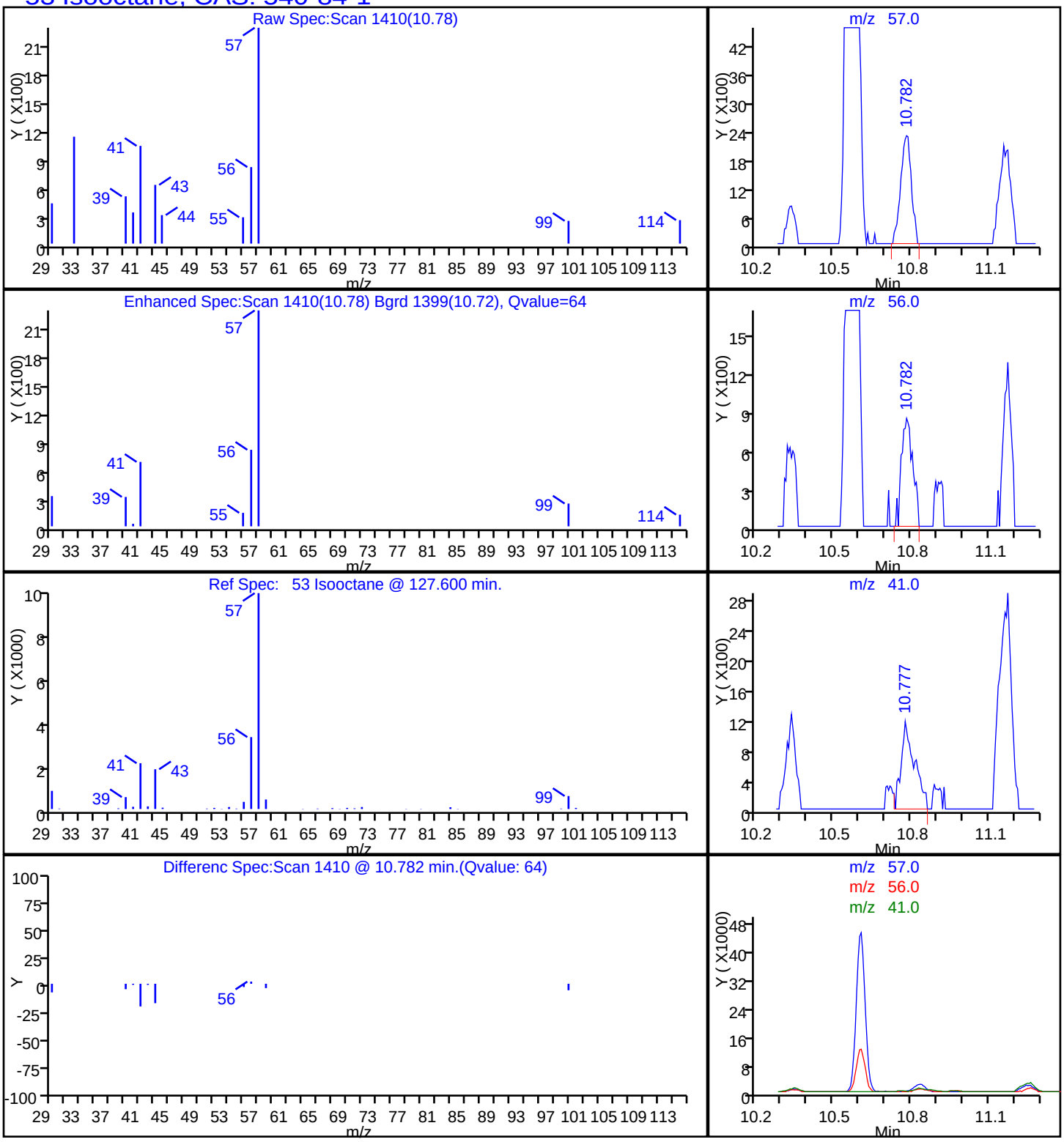
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7
Client ID:	PCV-IA1-B16		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



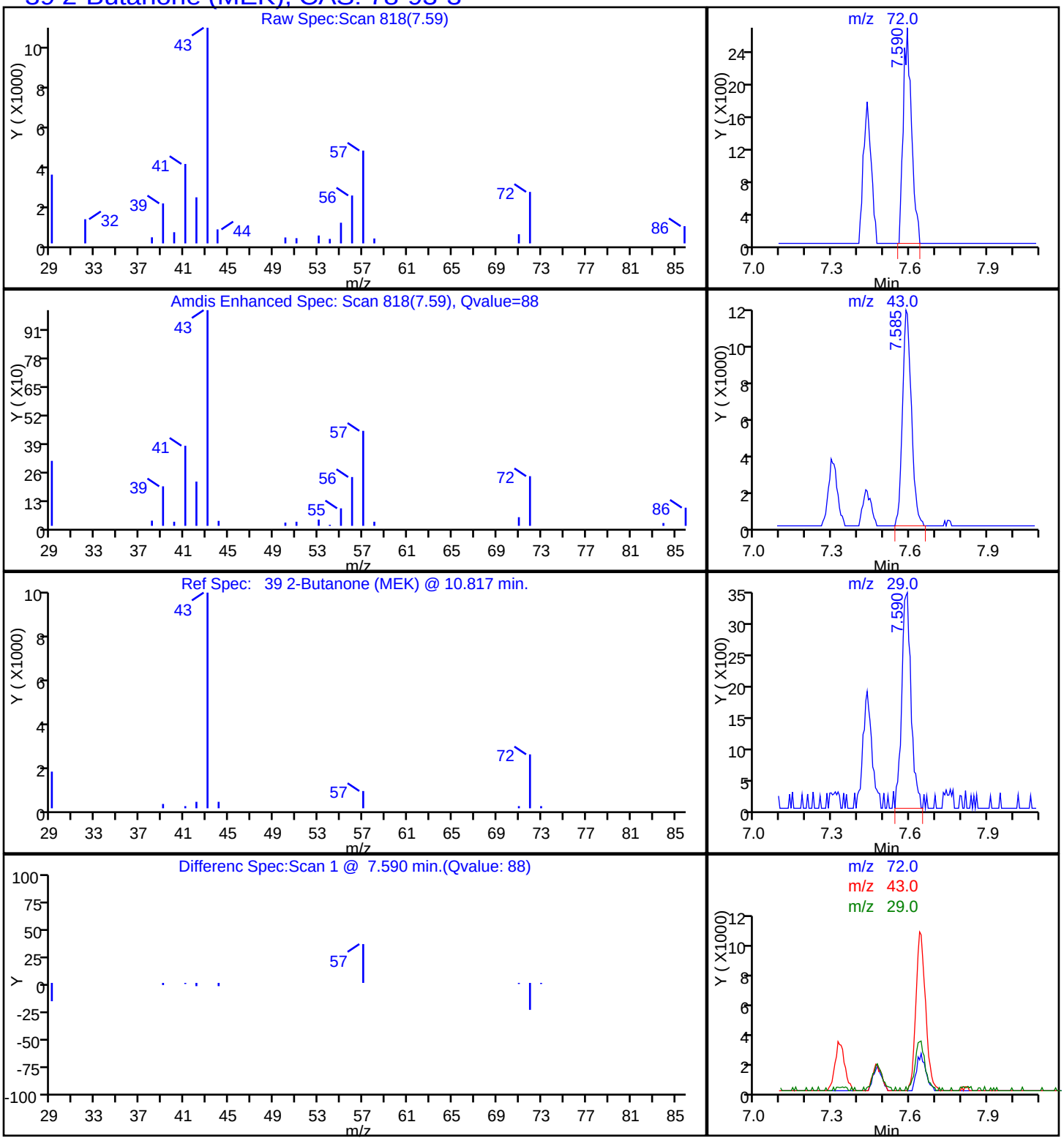
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



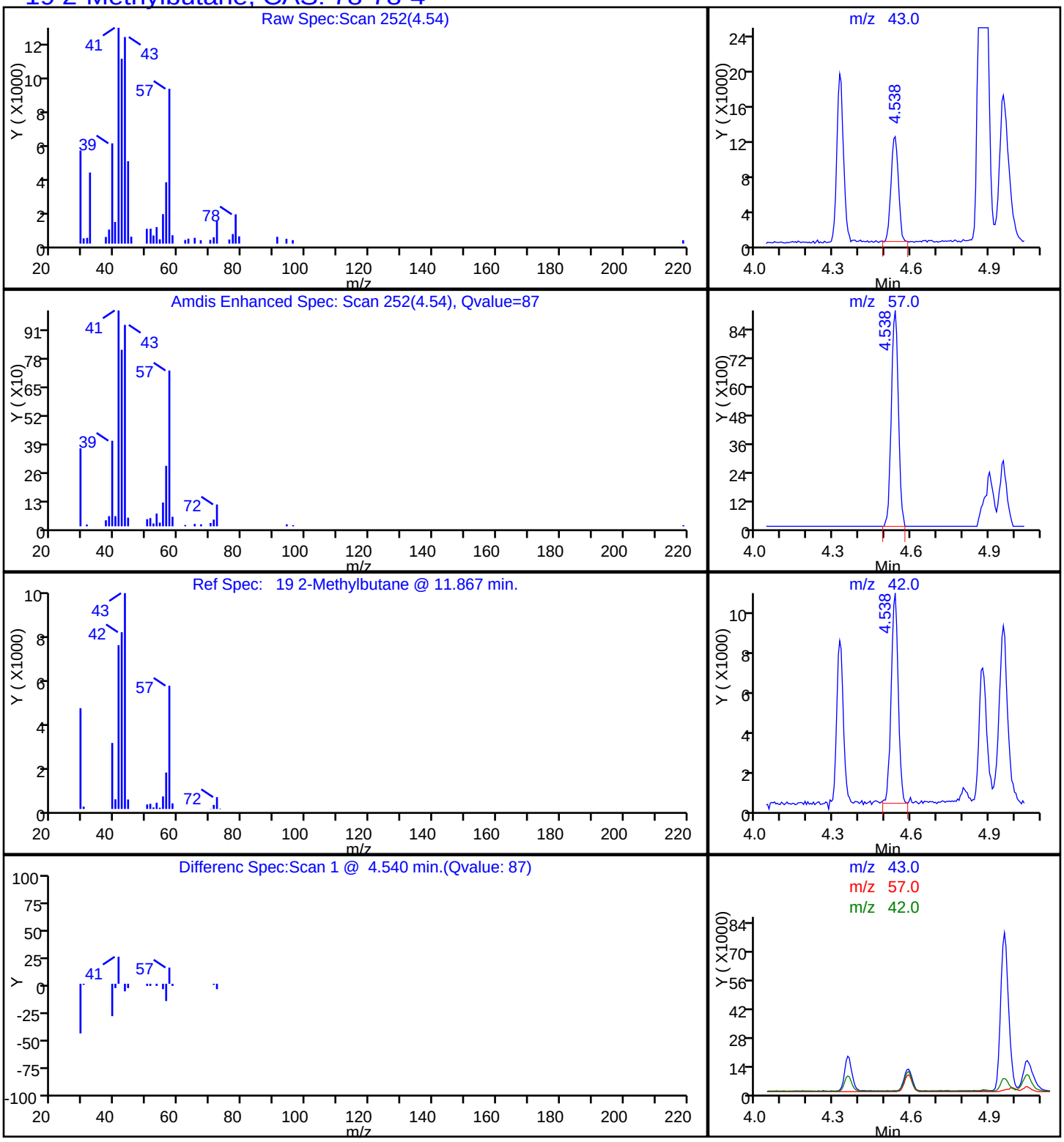
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7
Client ID:	PCV-IA1-B16		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



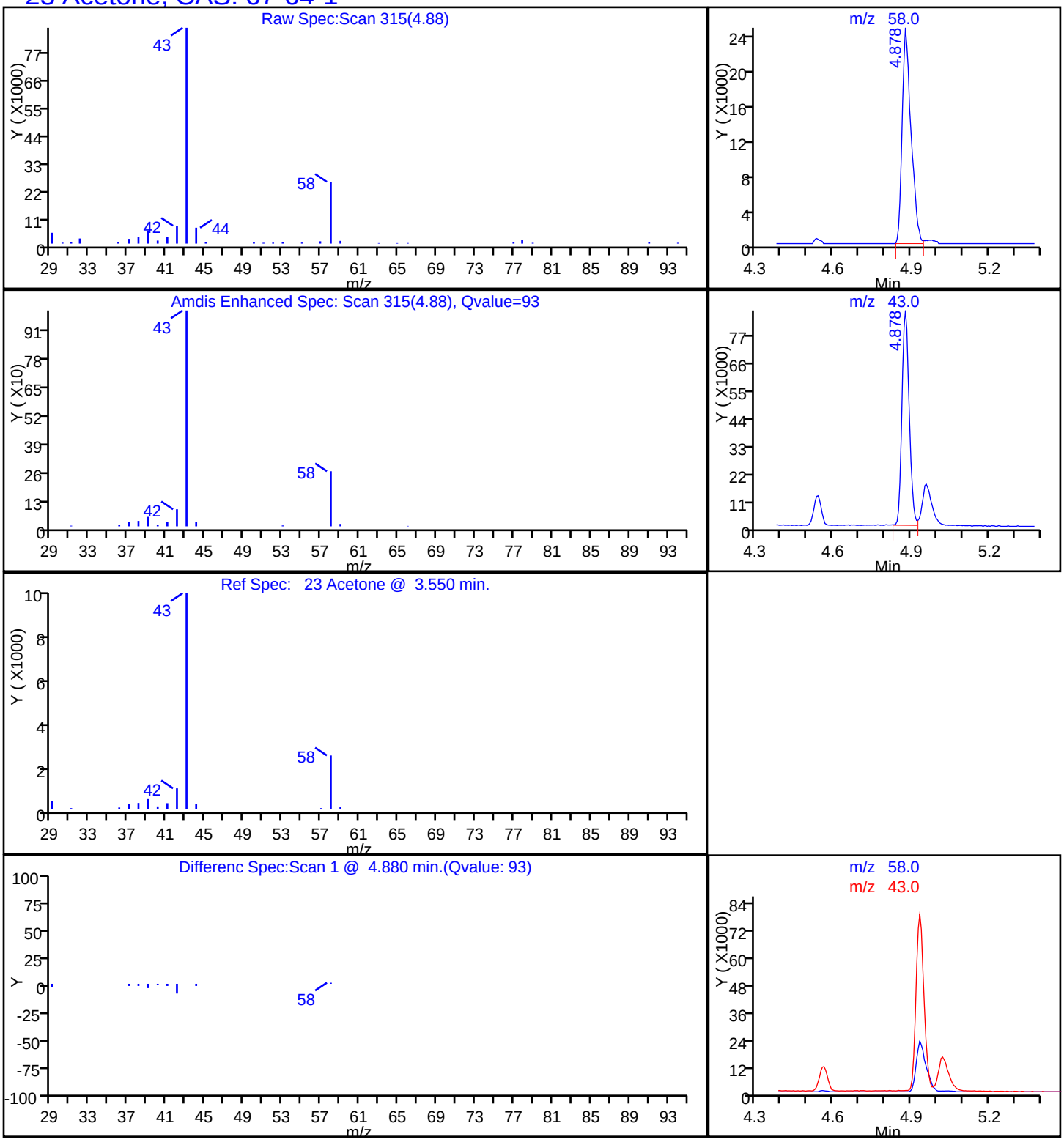
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



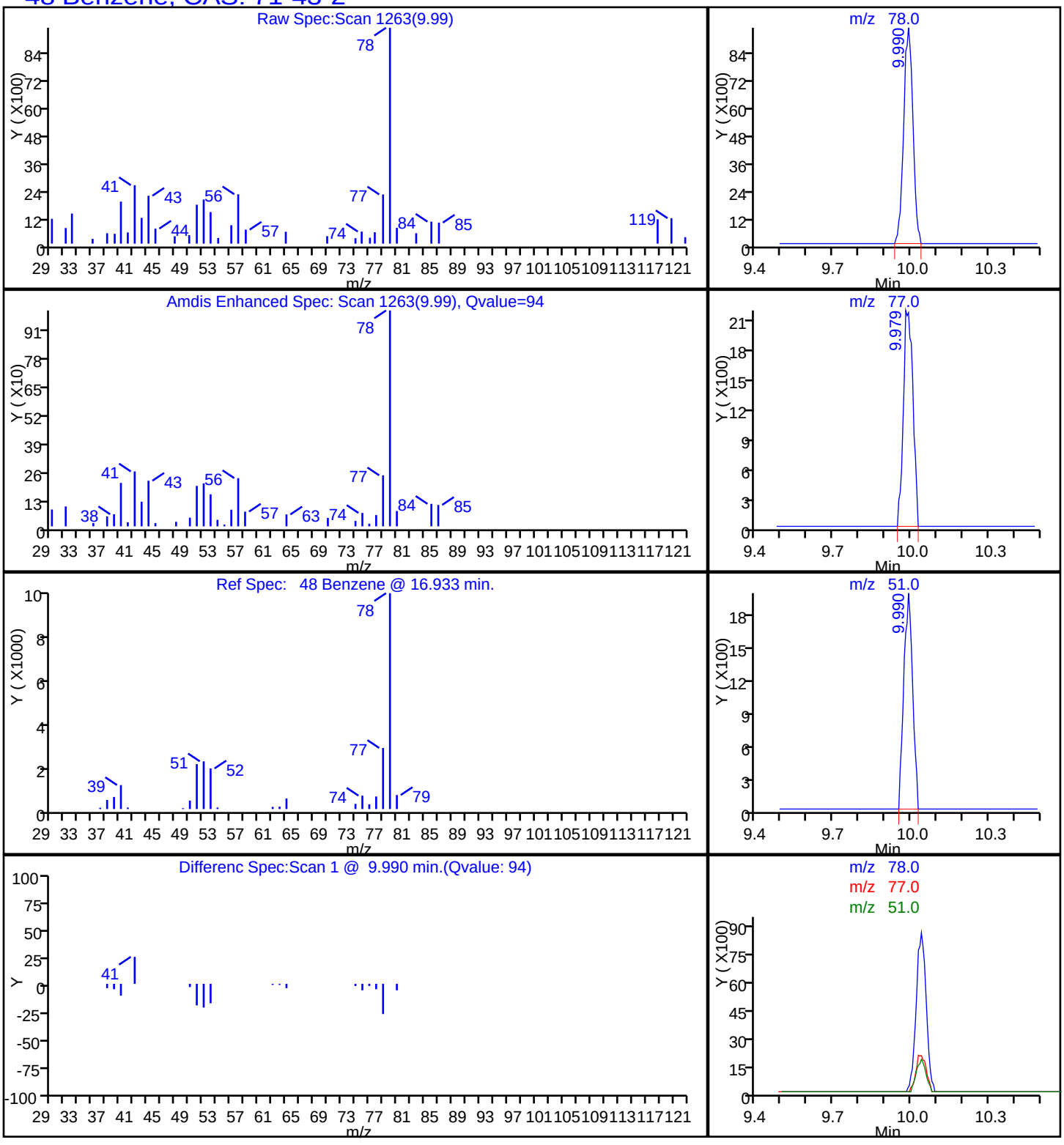
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

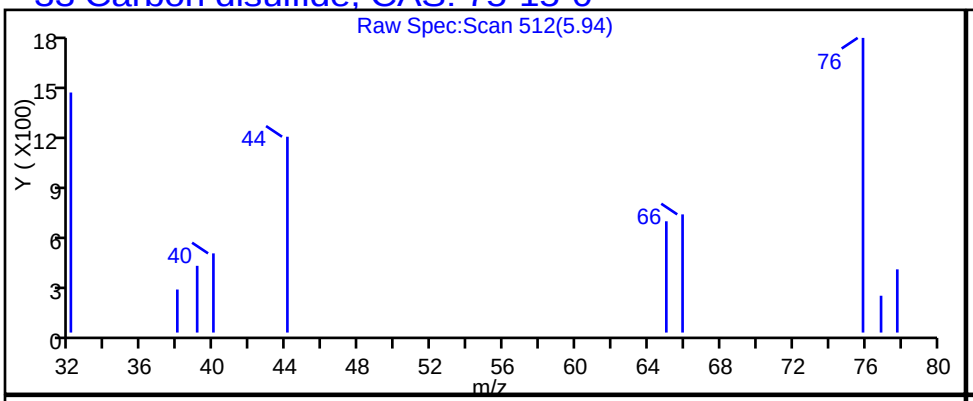
48 Benzene, CAS: 71-43-2

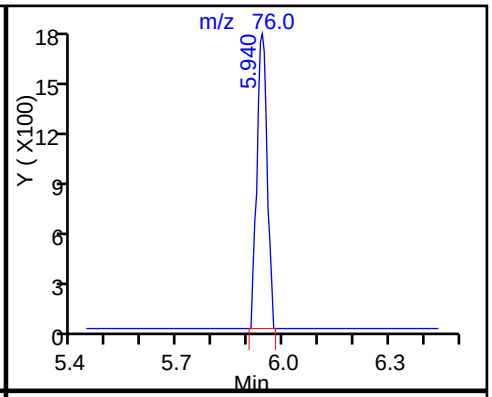


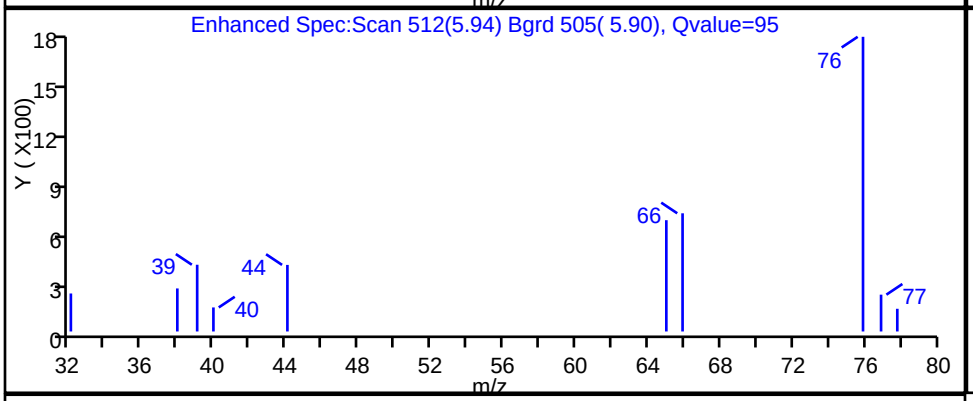
TestAmerica Knoxville

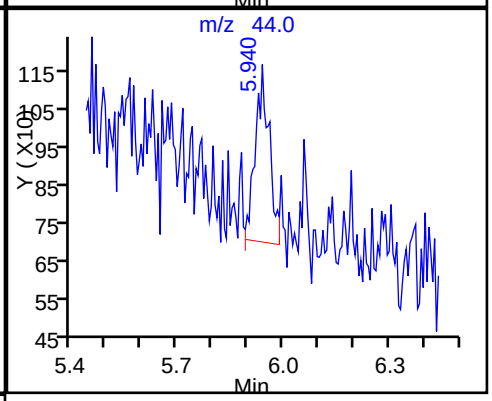
Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D				
Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

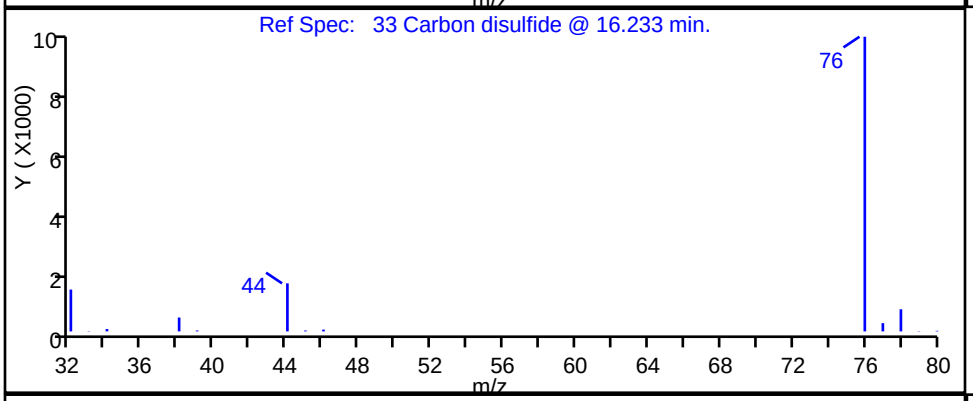
33 Carbon disulfide, CAS: 75-15-0

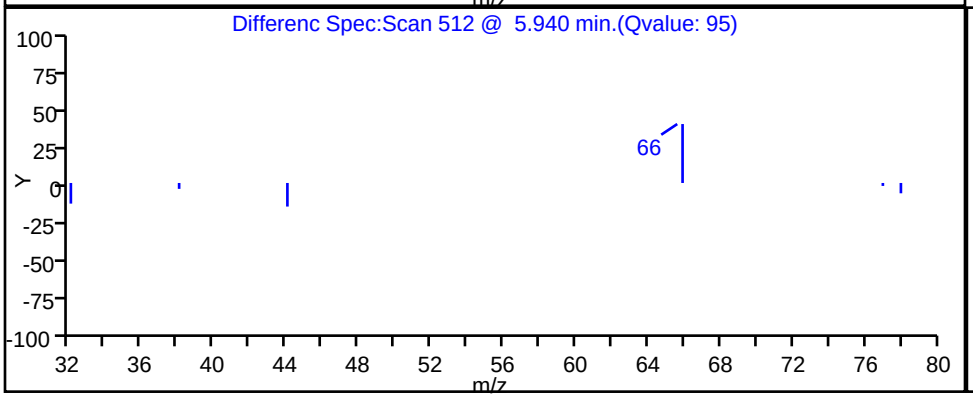


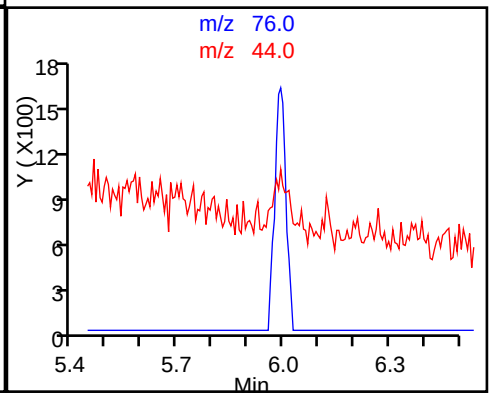












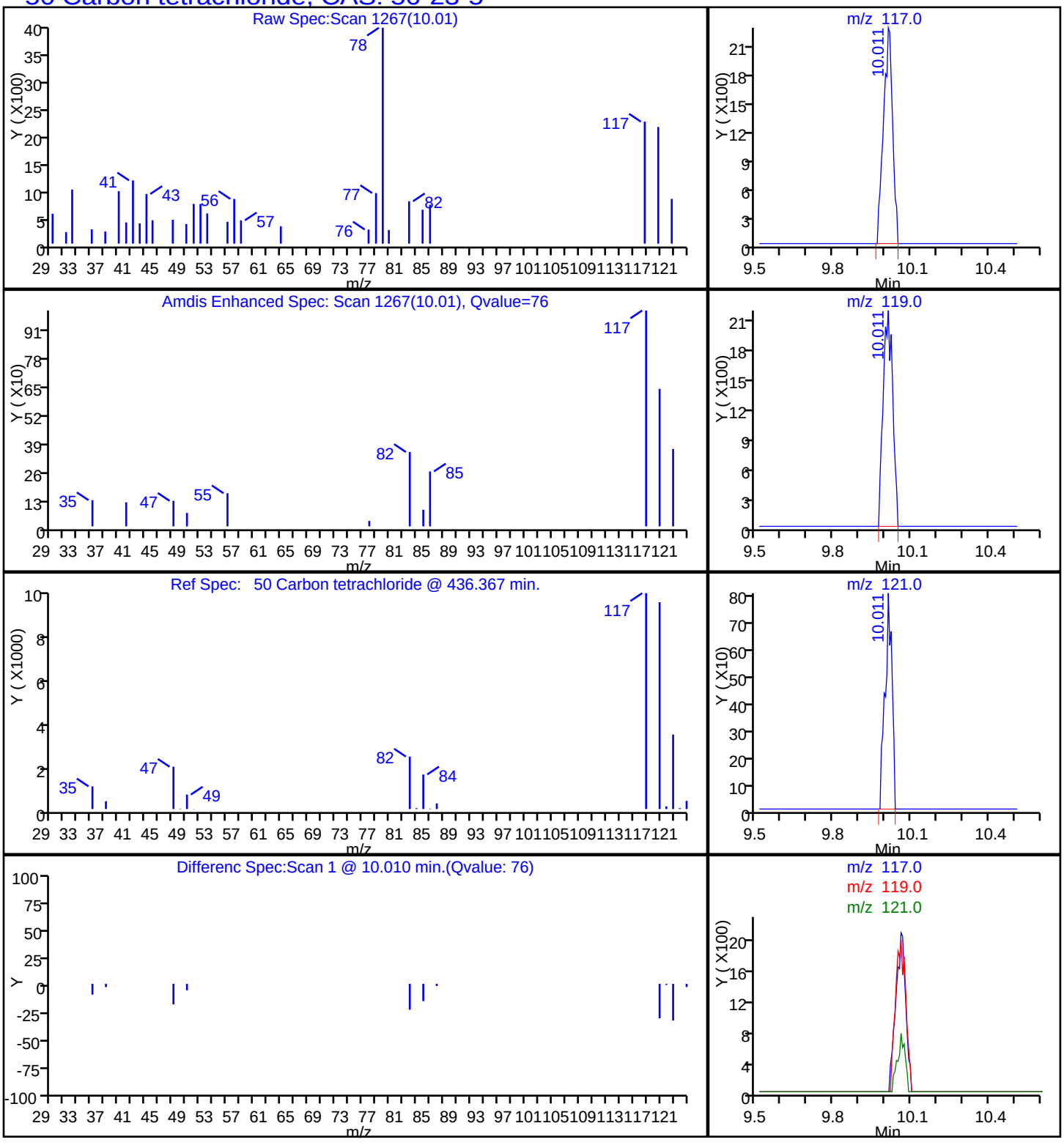
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7
Client ID:	PCV-IA1-B16		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



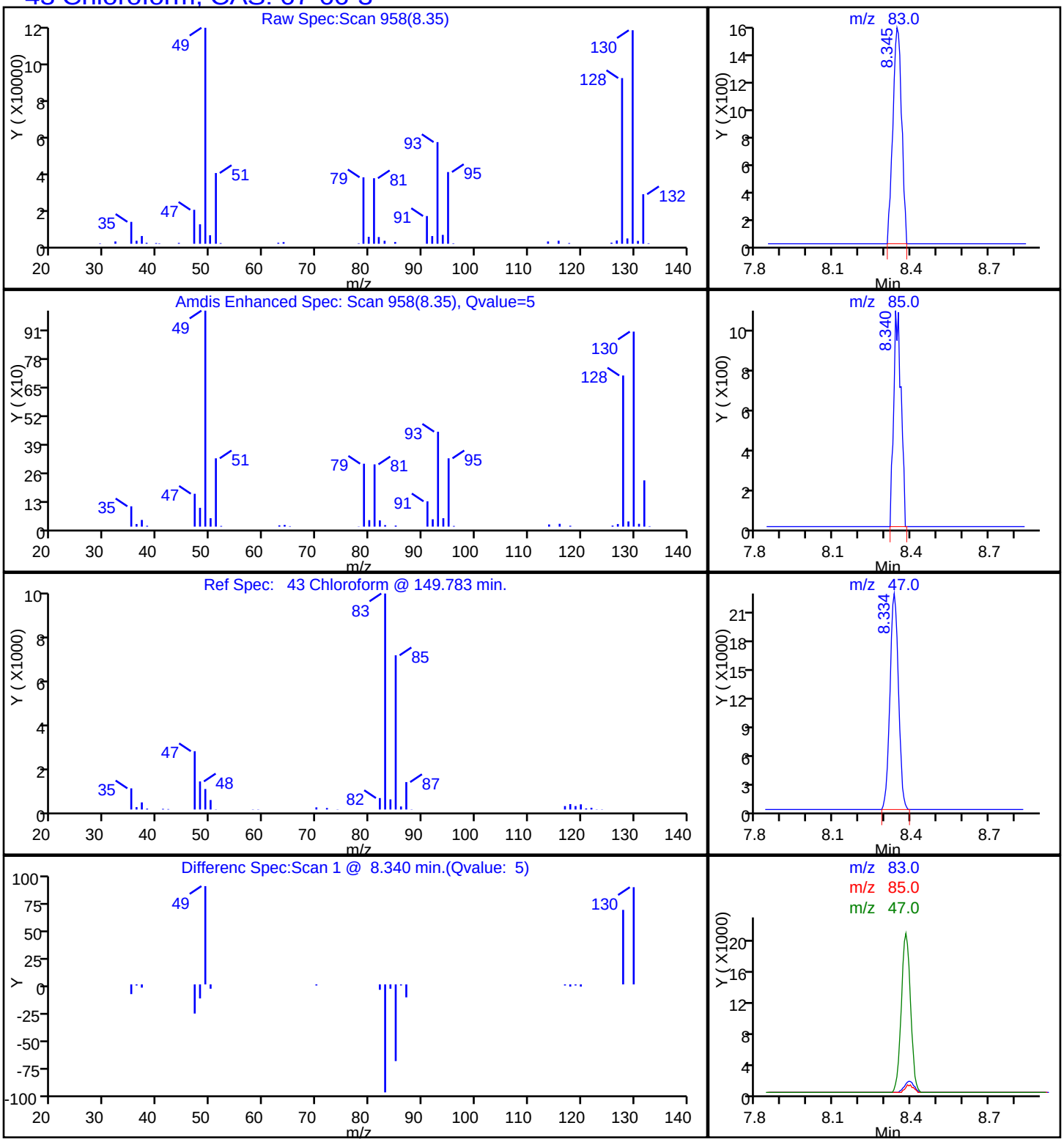
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date: 14-Mar-2014 01:01:30 Instrument ID: ME

Lims ID: 140-1037-A-7 Lab Sample ID: 140-1037-7

Client ID: PCV-IA1-B16

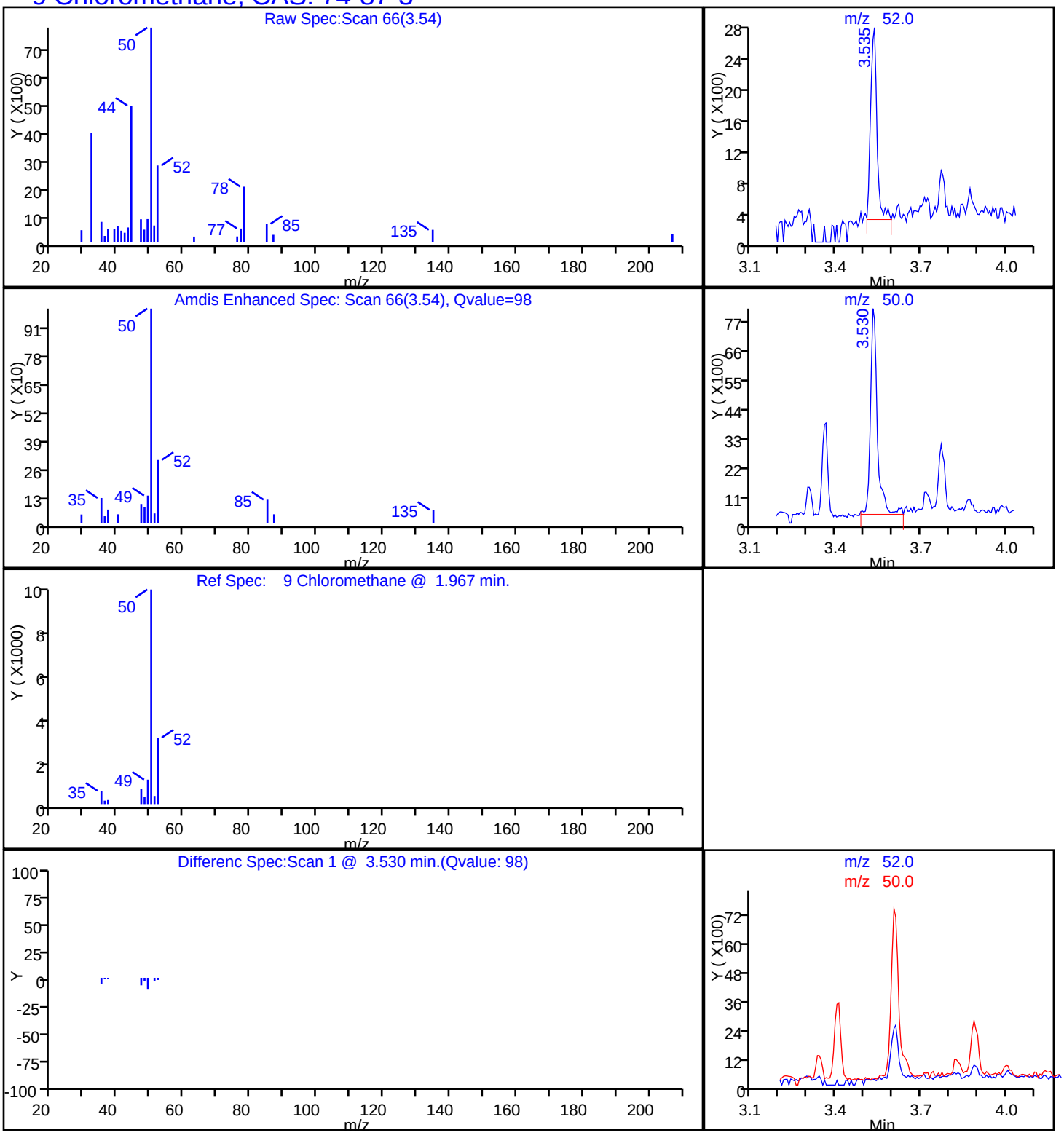
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



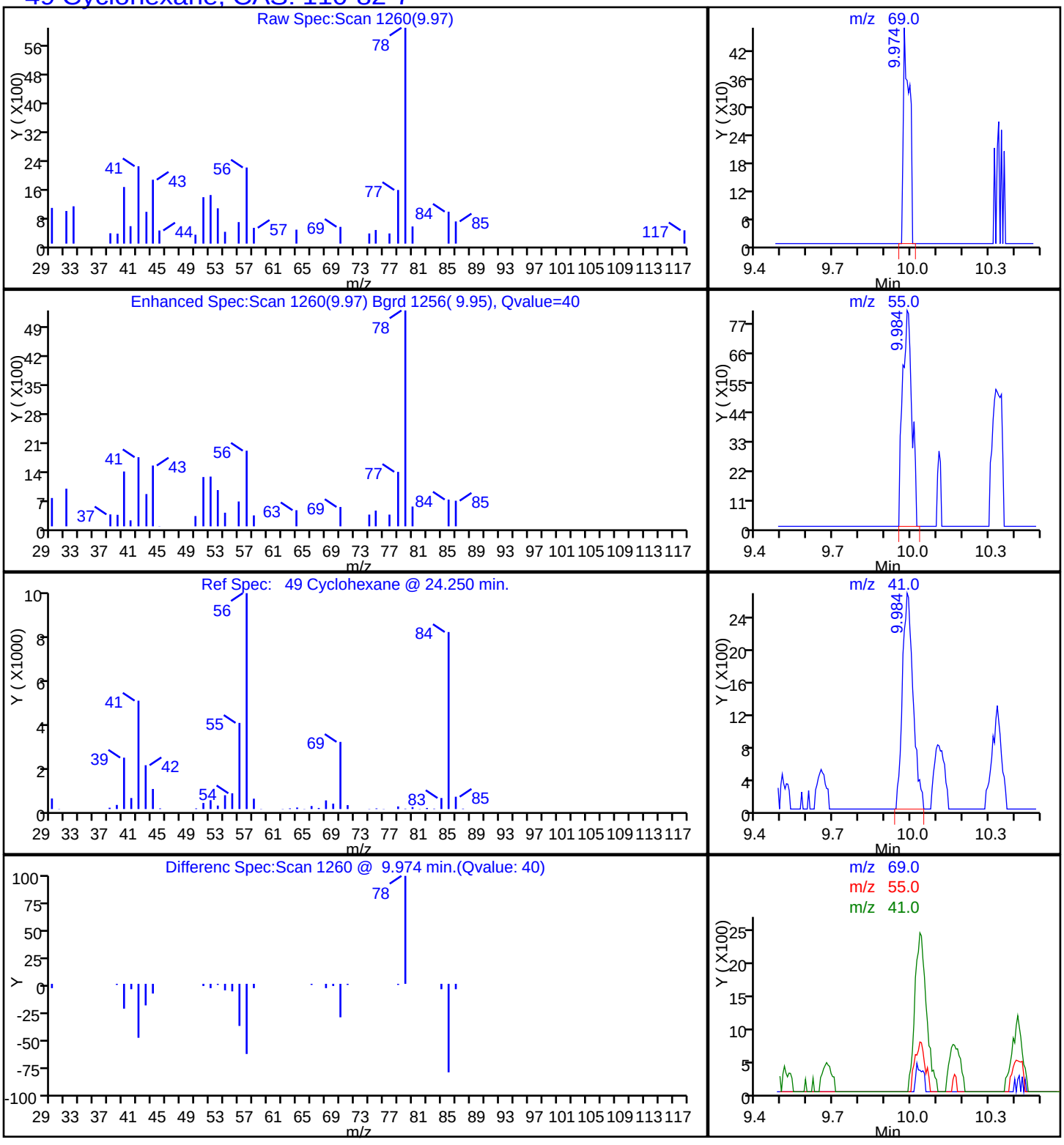
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

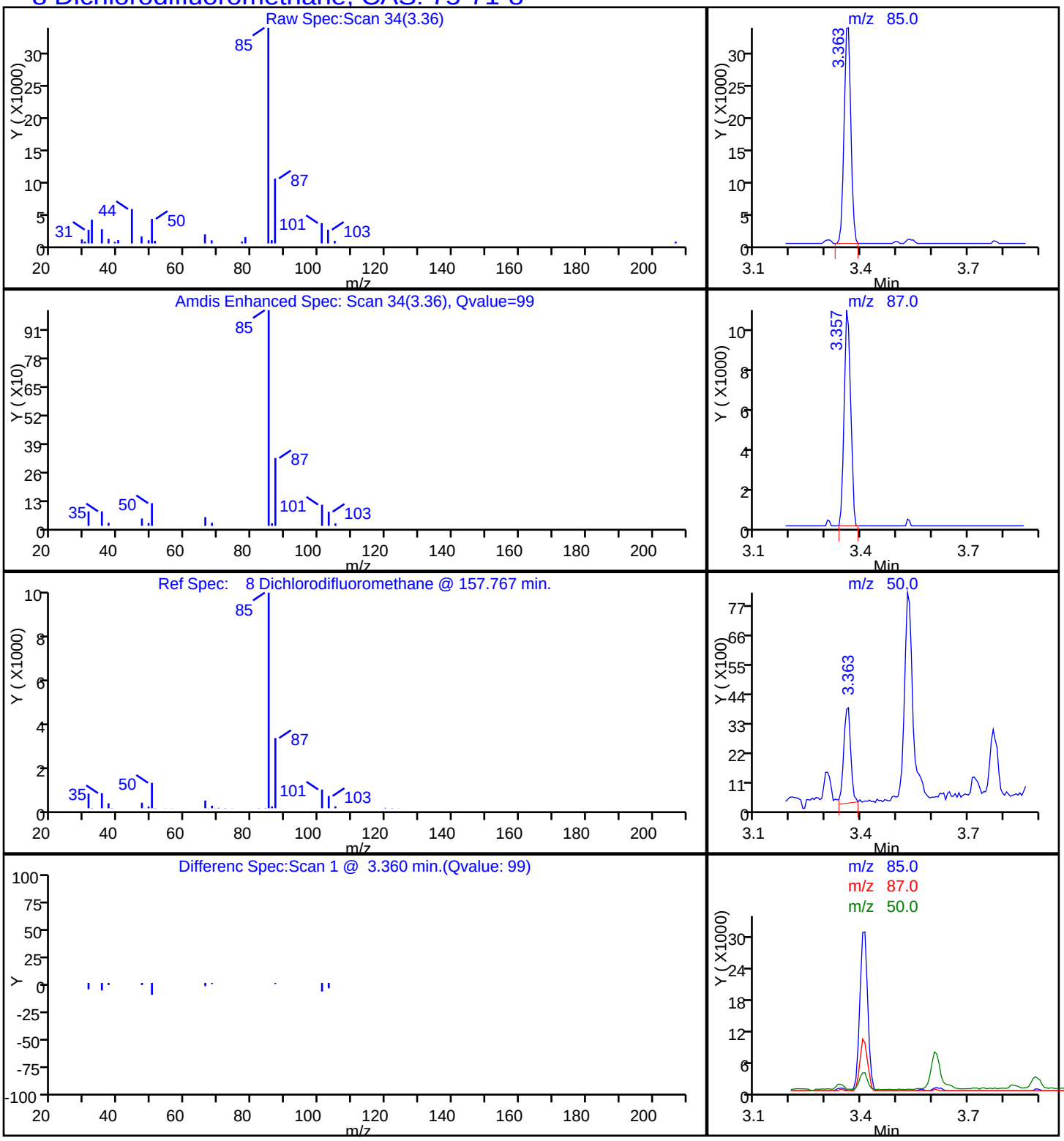
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D				
Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



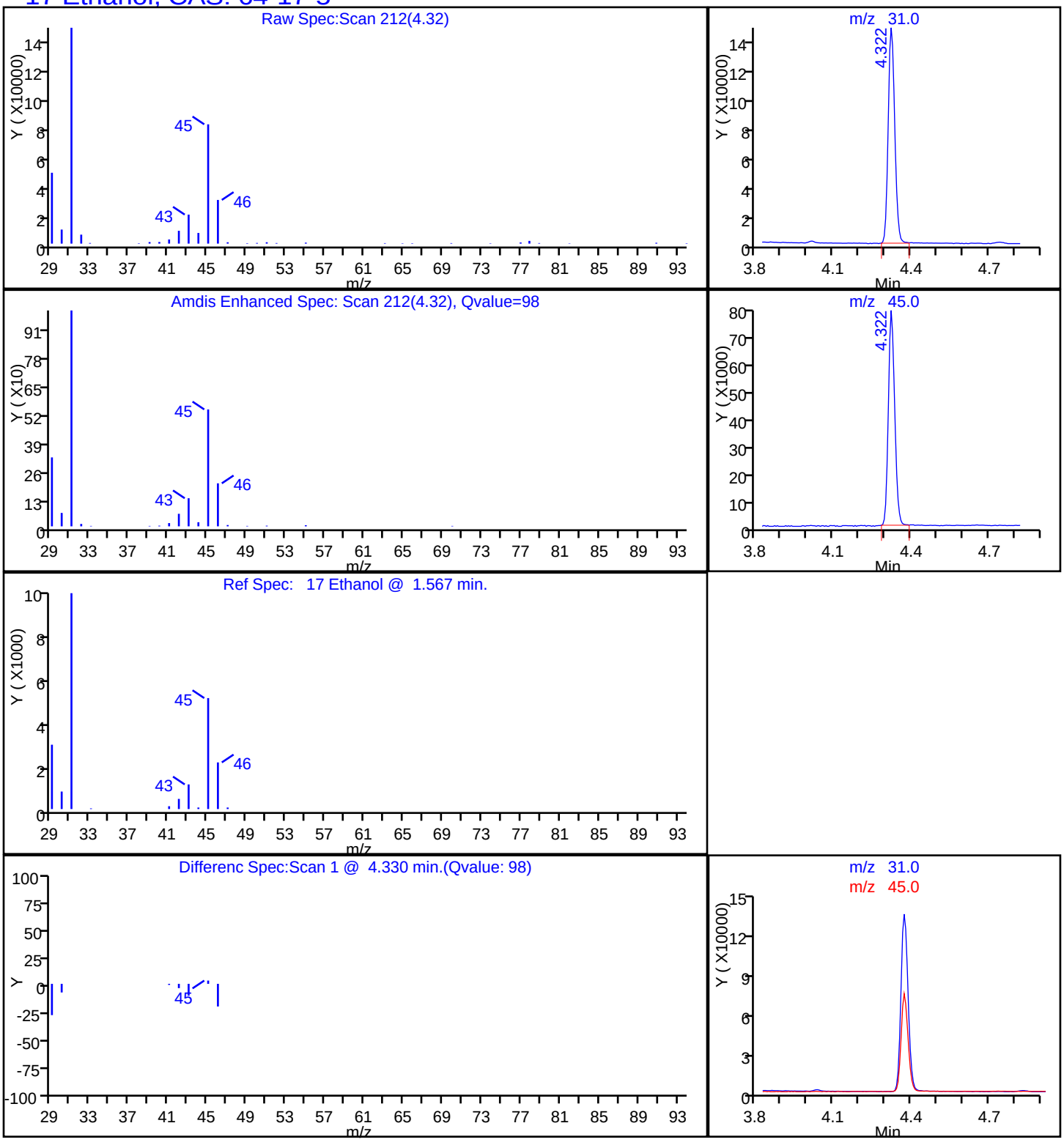
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7
Client ID:	PCV-IA1-B16		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



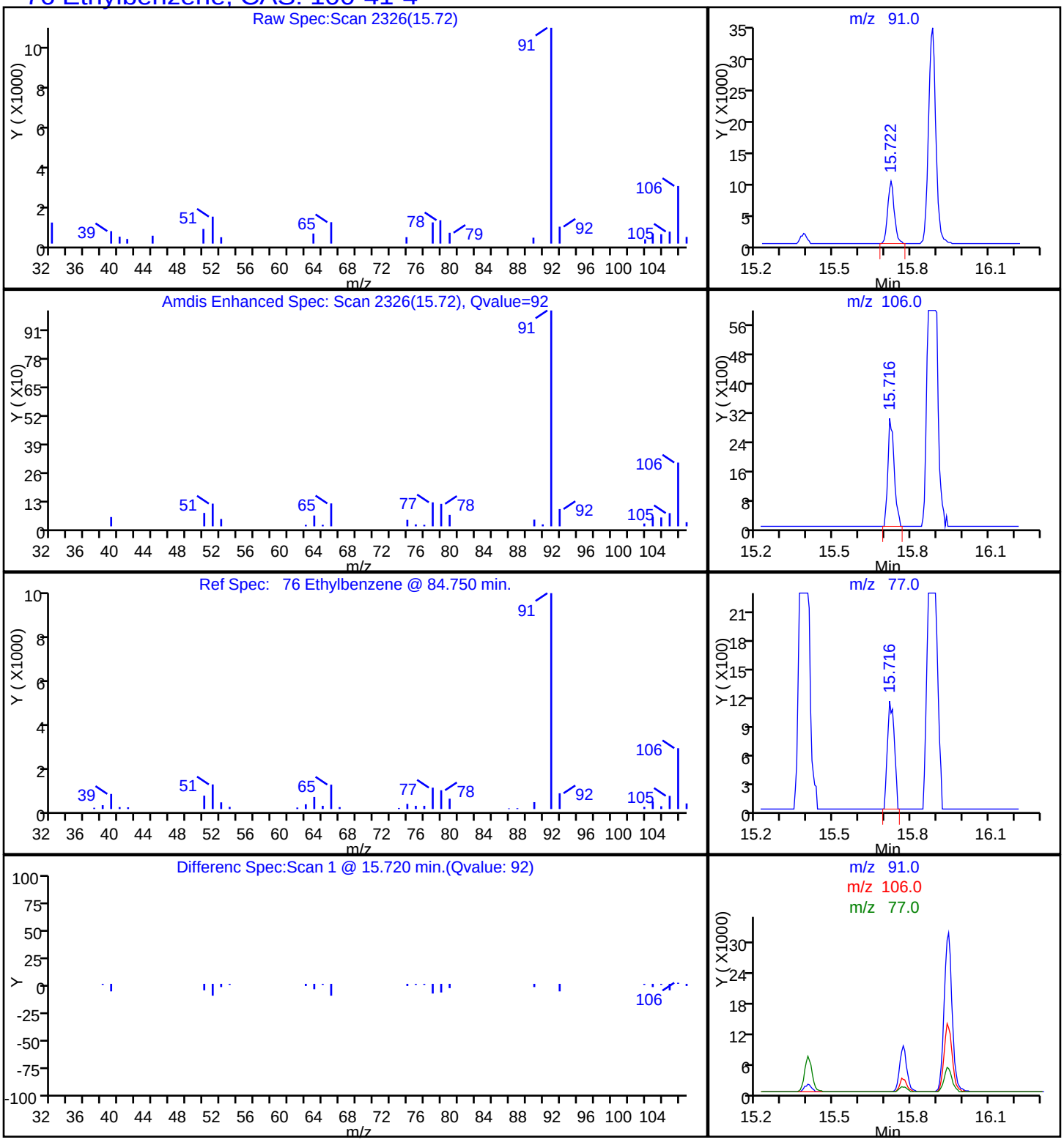
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7
Client ID:	PCV-IA1-B16		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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TestAmerica Knoxville

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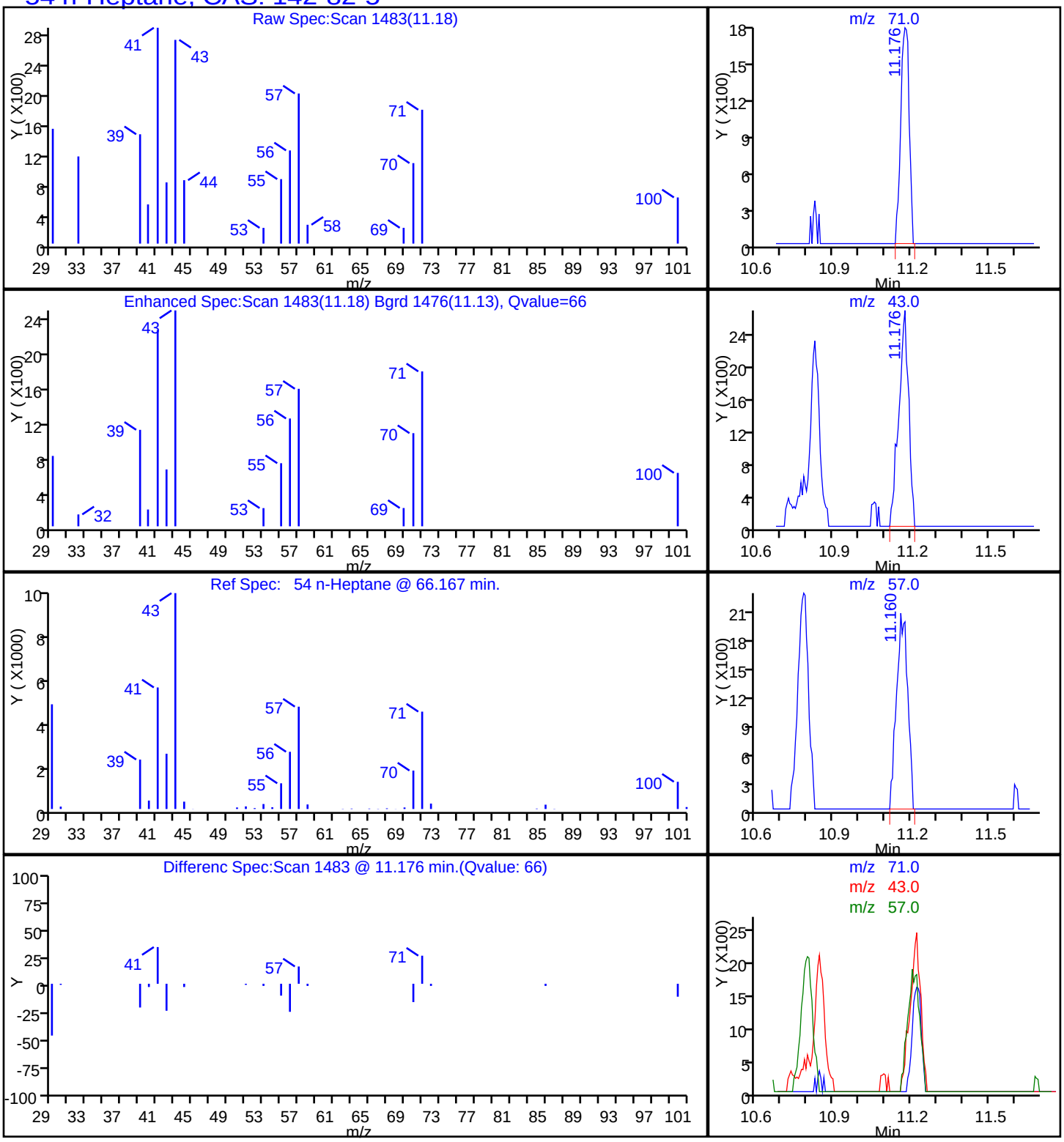
Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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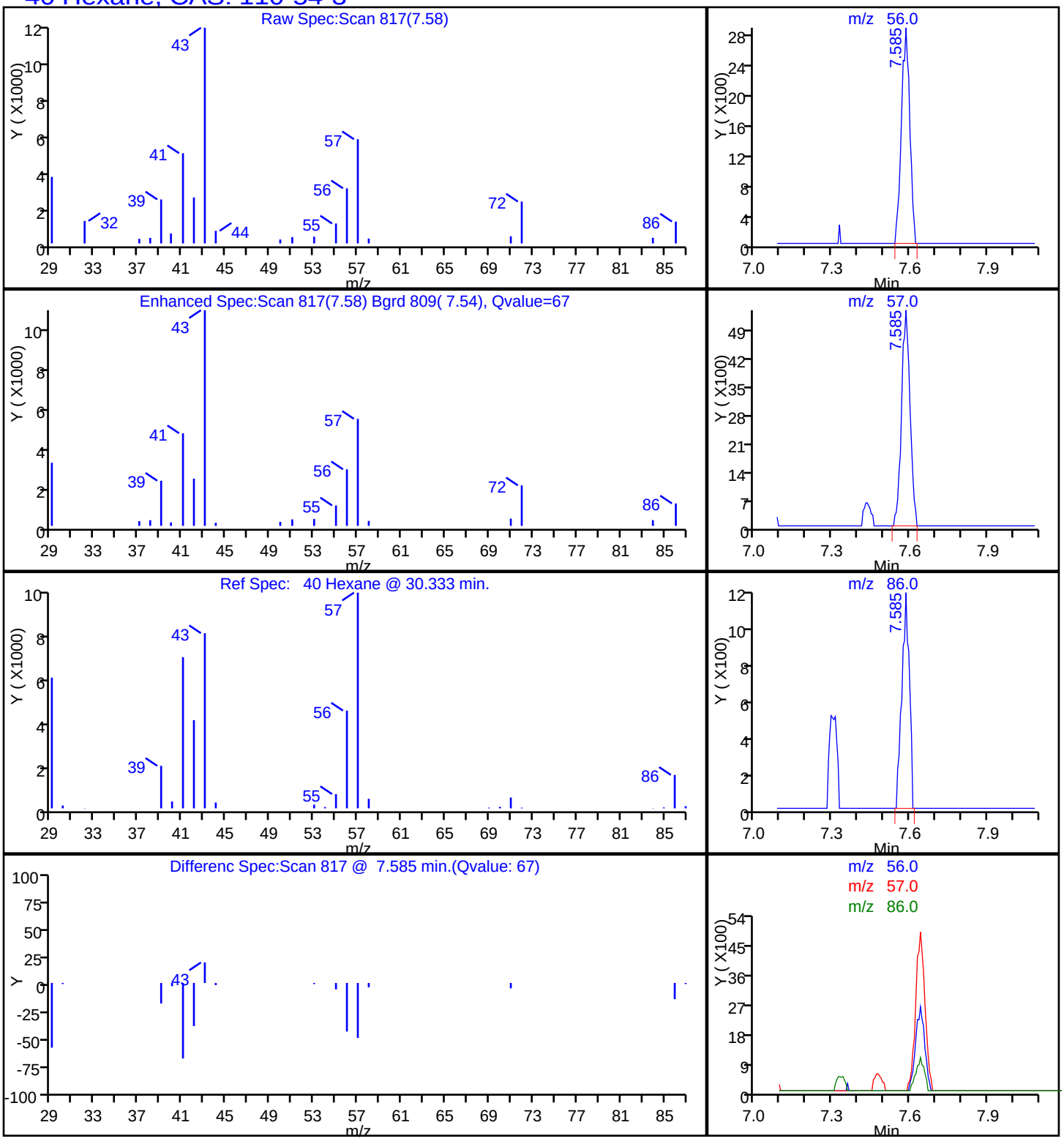
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date: 14-Mar-2014 01:01:30 Instrument ID: ME

Lims ID: 140-1037-A-7 Lab Sample ID: 140-1037-7

Client ID: PCV-IA1-B16

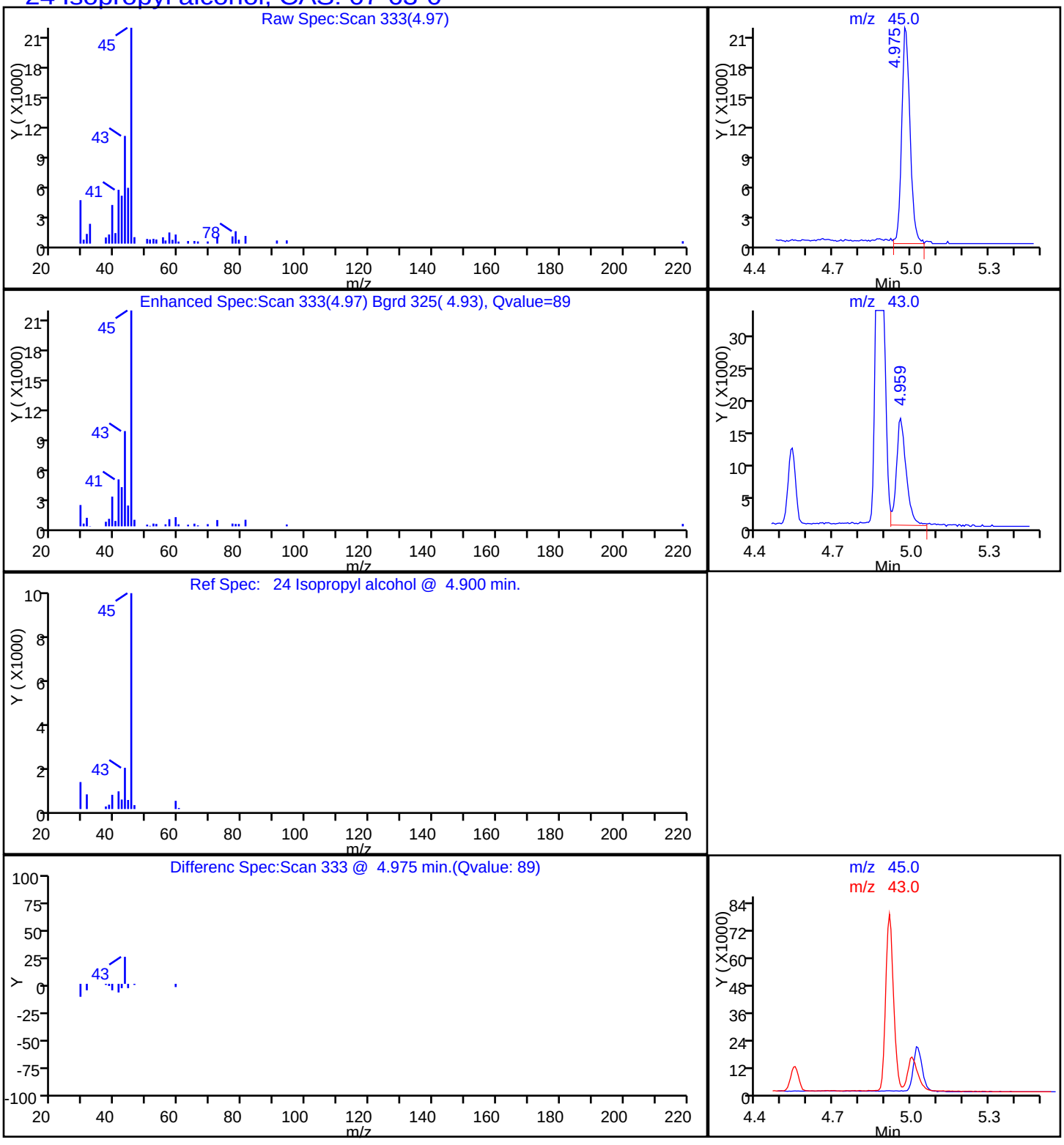
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



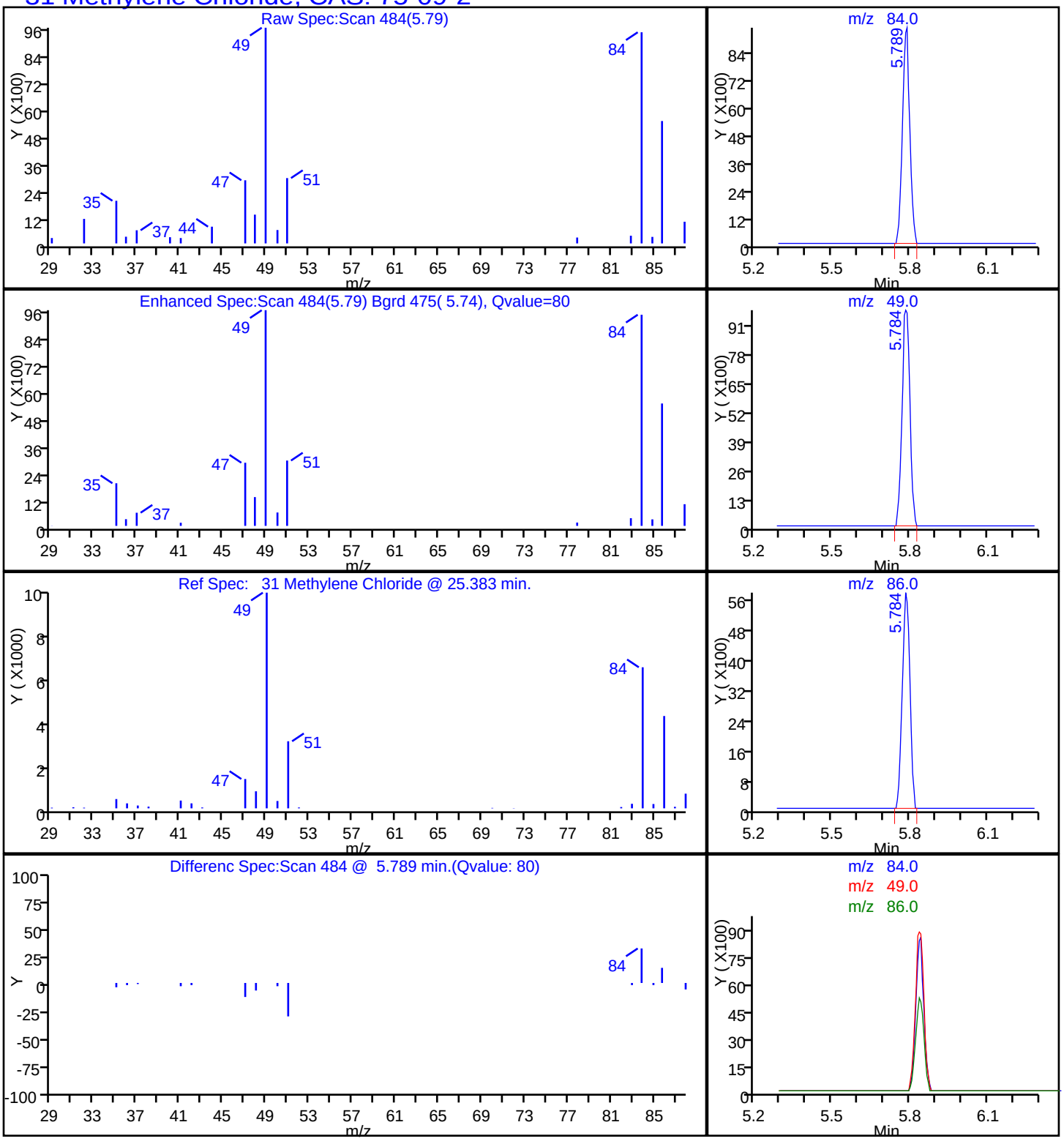
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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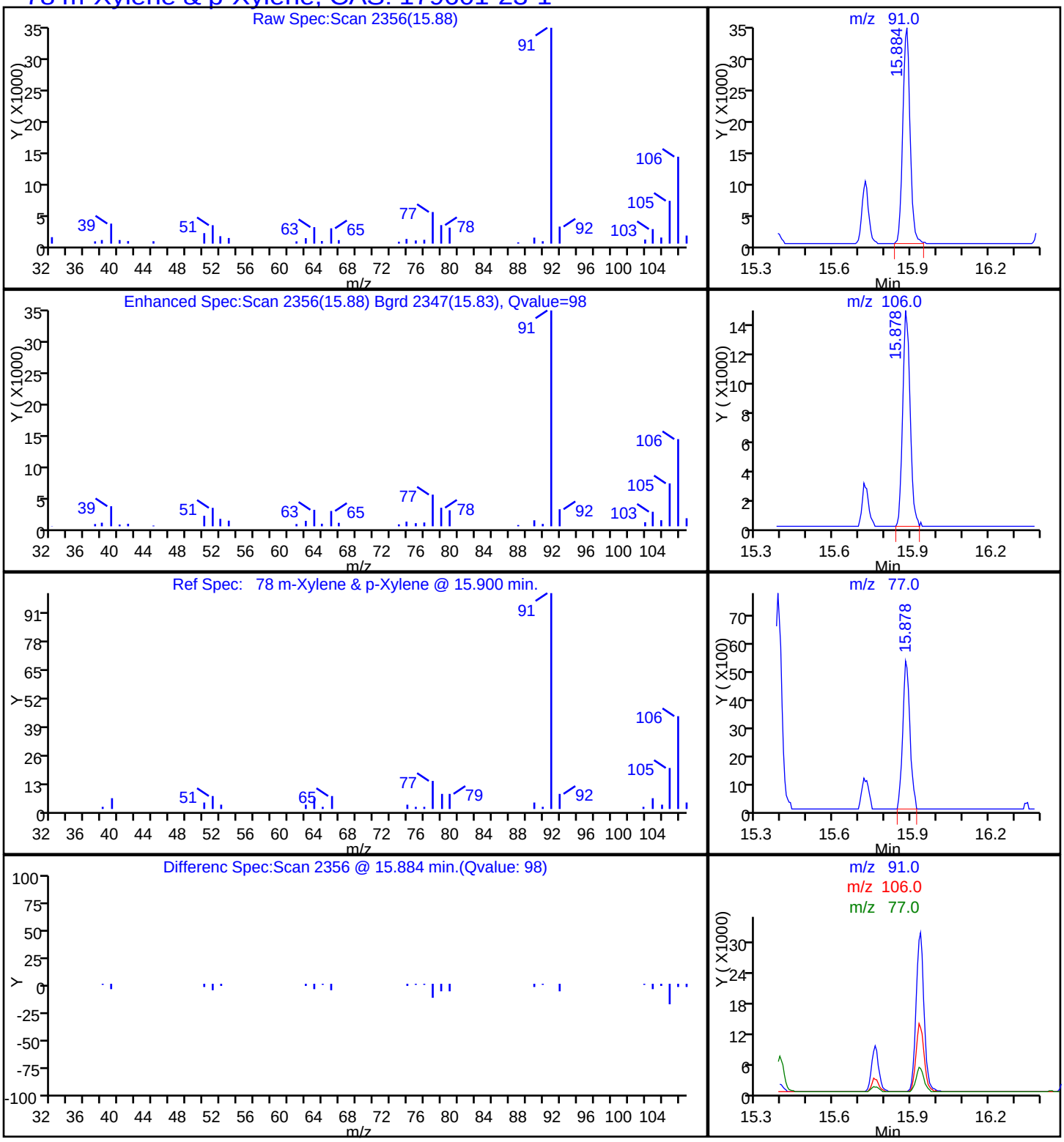
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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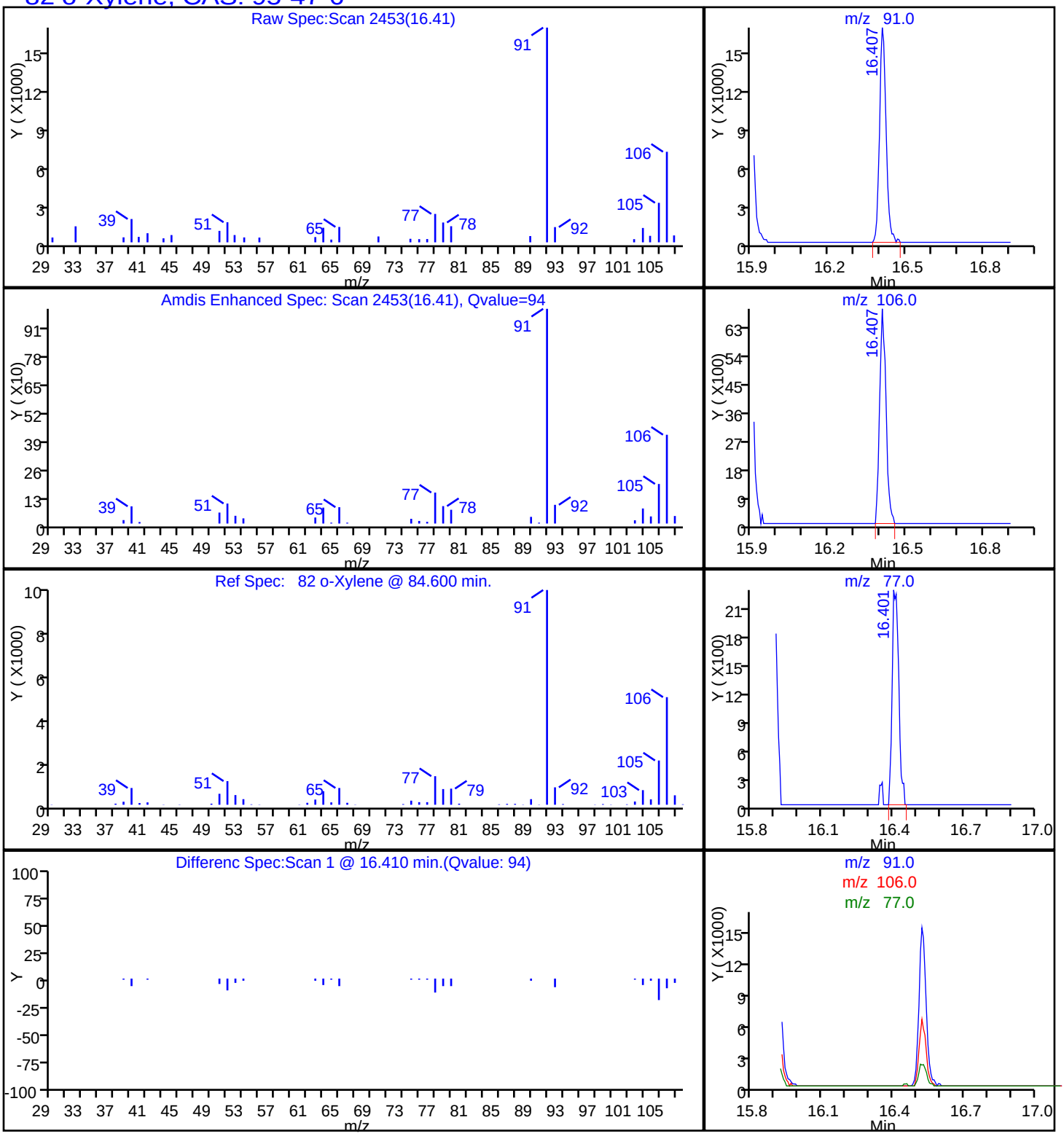
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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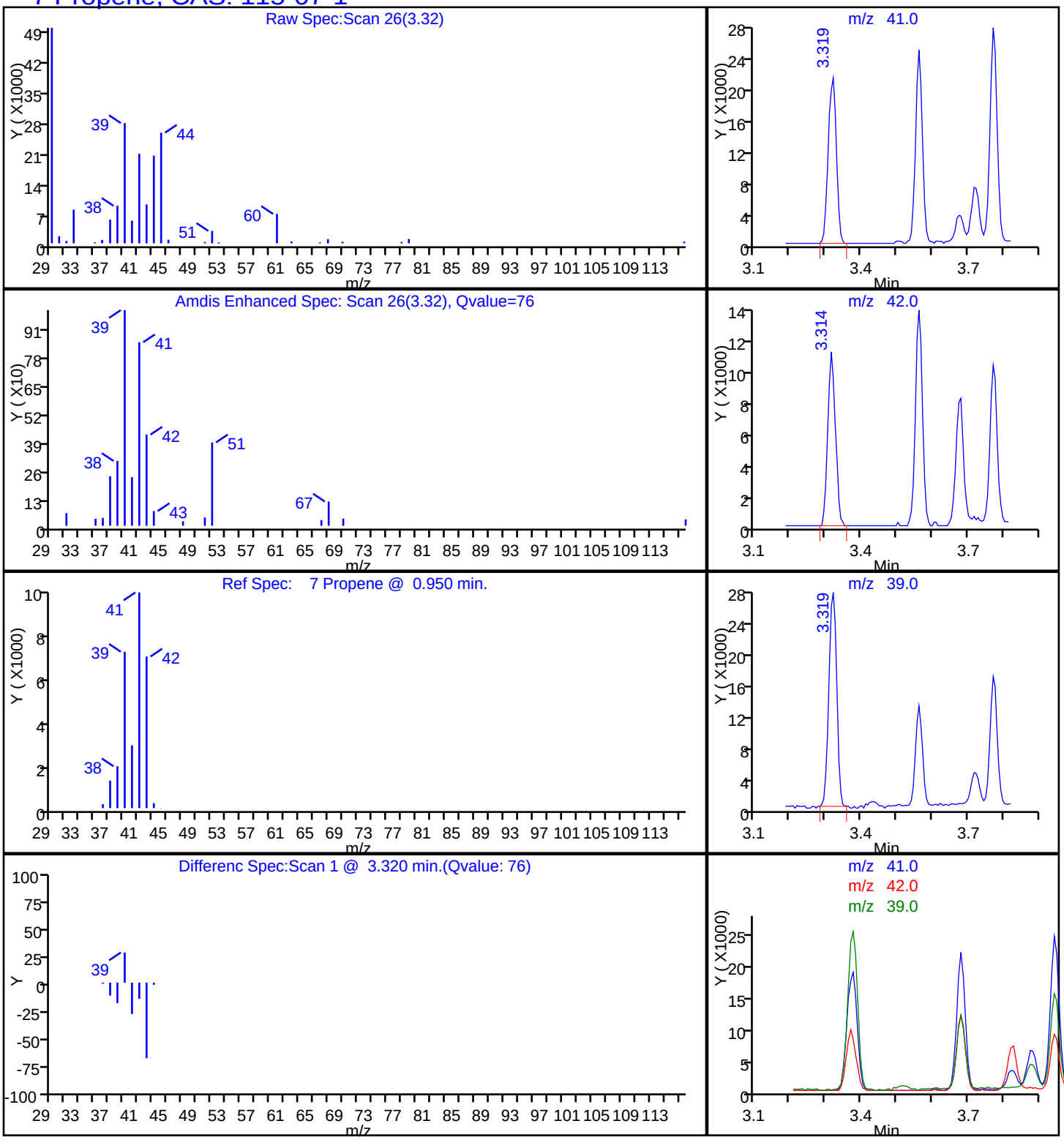
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D				
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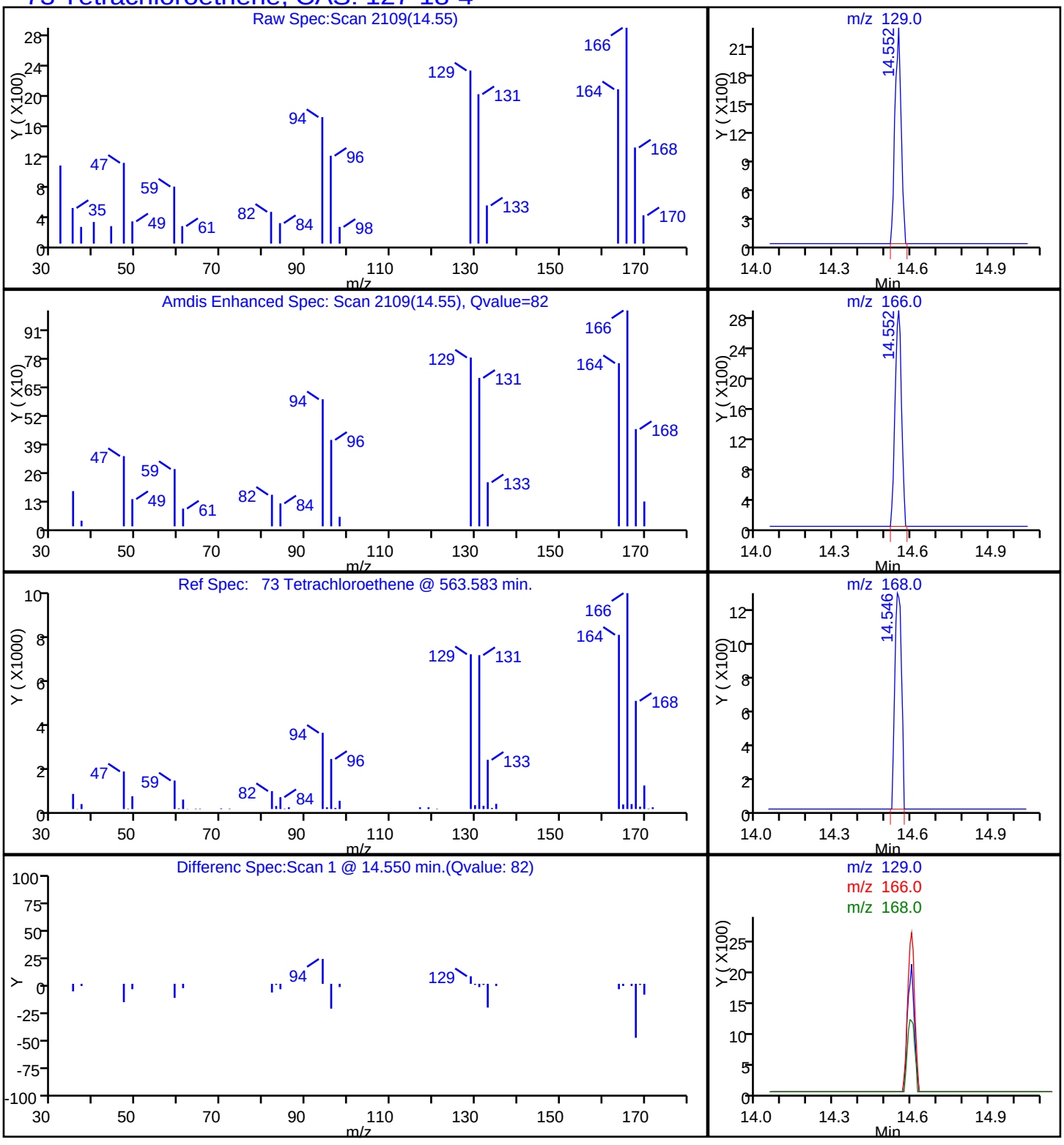
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



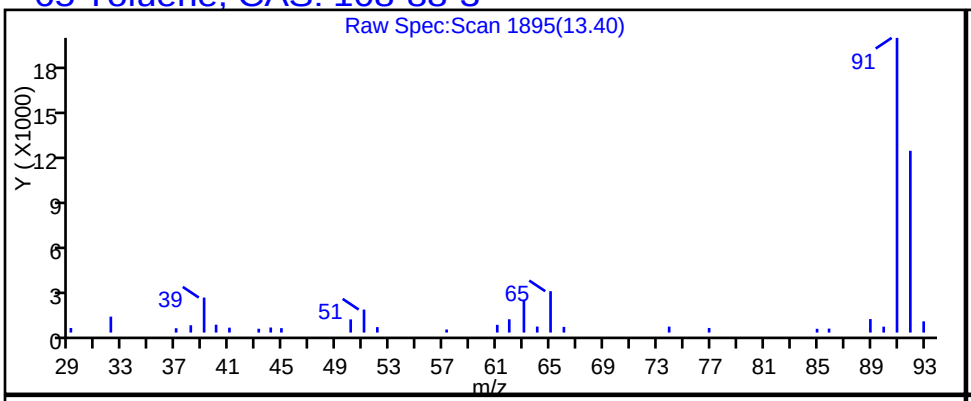
Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

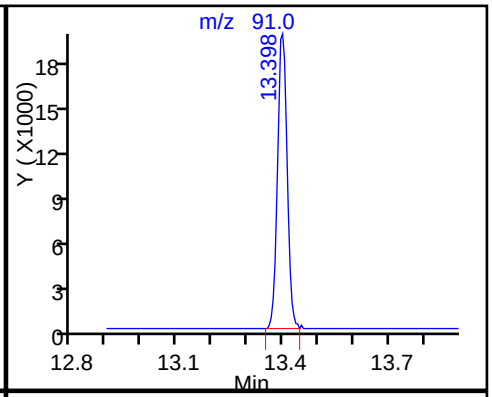
TestAmerica Knoxville

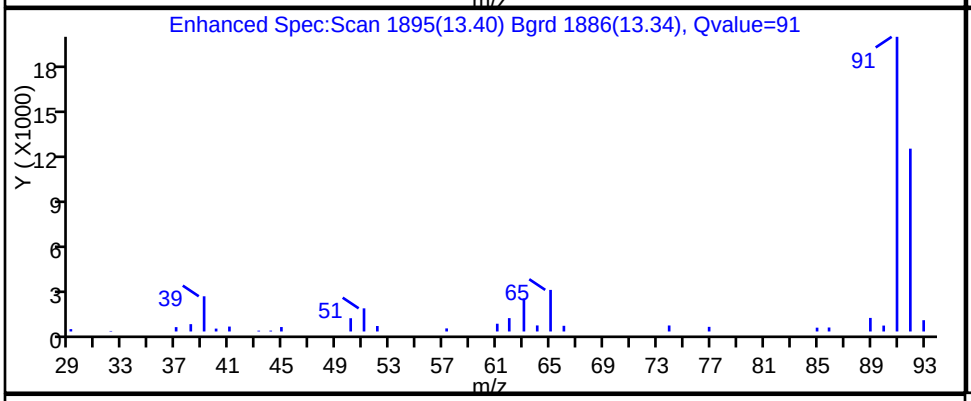
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

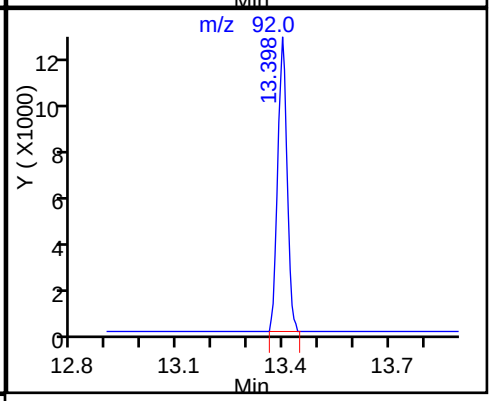
Injection Date:	14-Mar-2014 01:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-7	Lab Sample ID:	140-1037-7		
Client ID:	PCV-IA1-B16				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

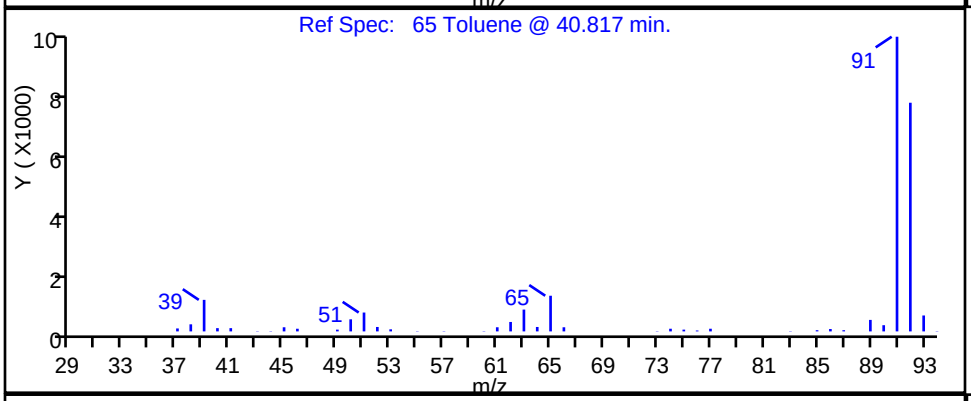
65 Toluene, CAS: 108-88-3

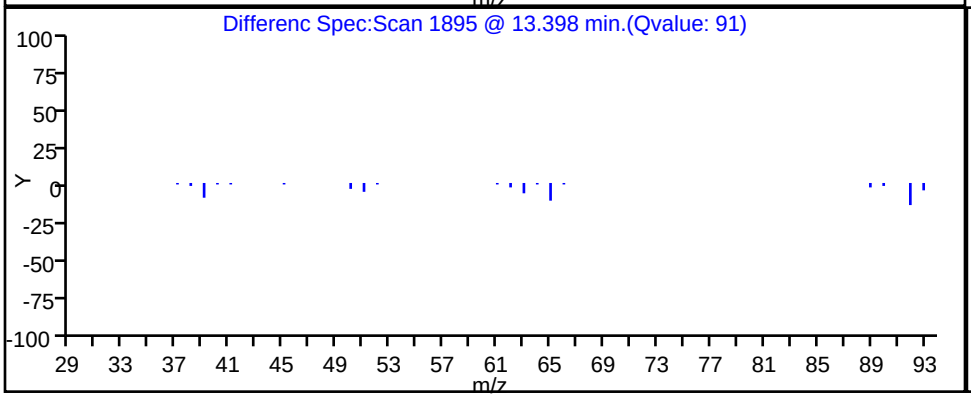


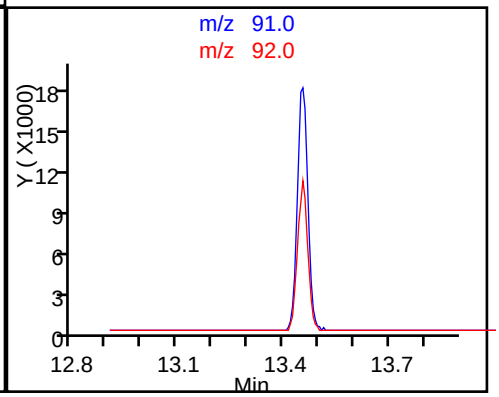












Report Date: 14-Mar-2014 07:27:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P113.D

Injection Date: 14-Mar-2014 01:01:30 Instrument ID: ME

Lims ID: 140-1037-A-7 Lab Sample ID: 140-1037-7

Client ID: PCV-IA1-B16

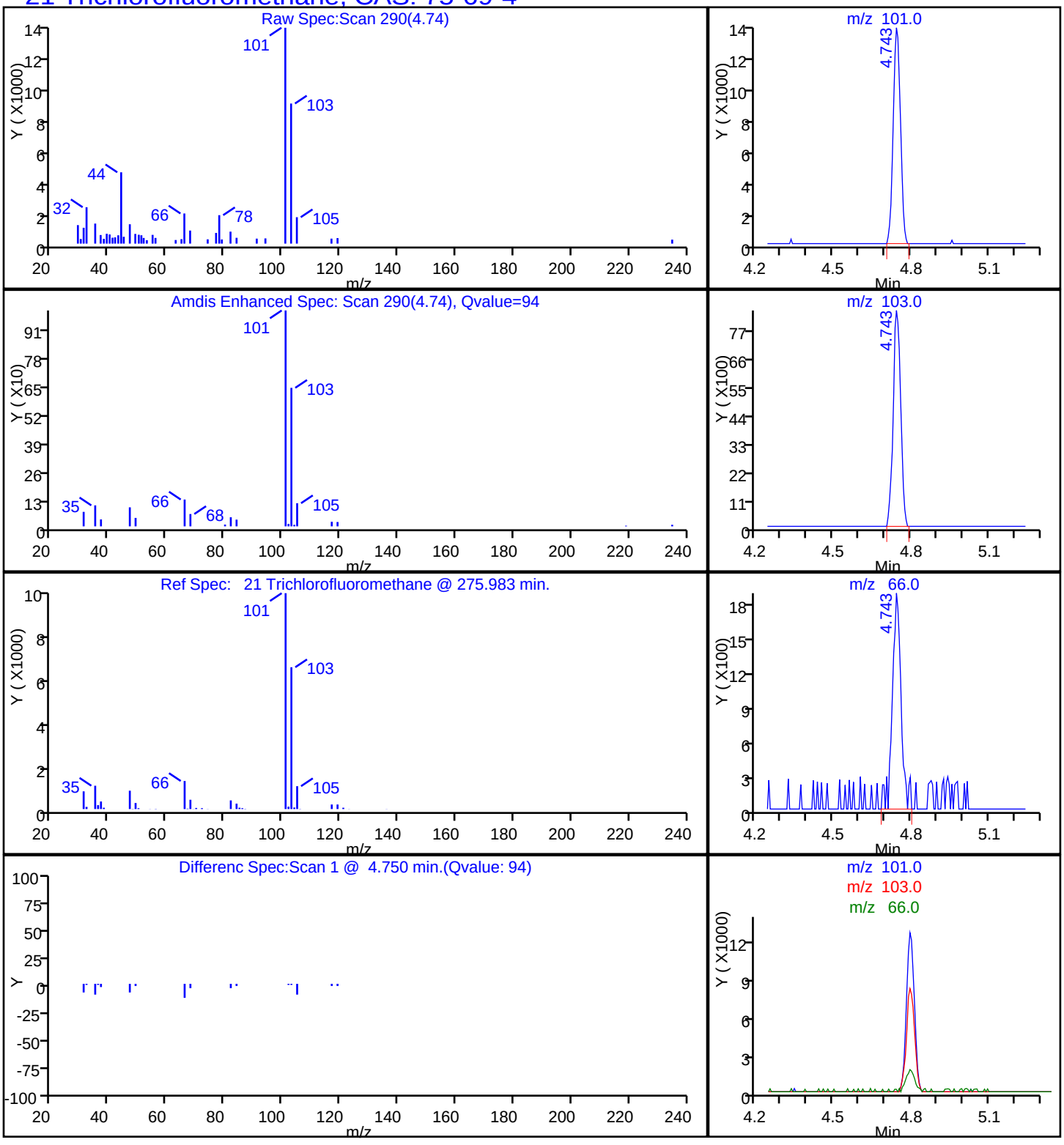
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.11	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.075	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.27	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.67		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.095	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.057	J	0.50	0.045
67-64-1	Acetone	58.08	6.1		5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.13	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068
64-17-5	Ethanol	46.07	47		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.24		0.20	0.068
142-82-5	Heptane	100.21	0.17	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	3.0		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.4		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.5		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.45		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.064	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.29		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.53	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.35	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.78	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.47	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.23	J	2.0	0.18
67-64-1	Acetone	58.08	15		12	3.3
71-43-2	Benzene	78.11	0.73		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.63	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.41	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	89		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.70	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	7.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	4.9		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	6.6		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.9		0.87	0.26
115-07-1	Propene	42.08	2.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.44	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B16 Lab Sample ID: 140-1037-8

Matrix: Air Lab File ID: EC13P114.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 01:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D
Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8
Client ID: PCV-IA3-B16
Sample Type: Client
Inject. Date: 14-Mar-2014 01:46:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-8
Misc. Info.: E031314,TO155,,140-0000518-020
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:27:50 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:27:50

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	80	222541	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1133514	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	1002115	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	906393	4.13	
	7 Propene	41	3.319	3.309	0.010	70	29504	0.5270	
	8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	46145	0.1874	
	9 Chloromethane	52	3.530	3.530	0.0	98	4672	0.2378	
	17 Ethanol	31	4.328	4.312	0.016	98	418282	18.8	
	19 2-Methylbutane	43	4.533	4.538	-0.005	85	20871	0.2678	
	21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25618	0.1037	
	23 Acetone	58	4.872	4.878	-0.006	99	82524	2.45	
	24 Isopropyl alcohol	45	4.980	4.970	0.010	96	102449	1.18	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	65	4081	0.0267	
	31 Methylene Chloride	84	5.784	5.789	-0.005	85	35968	0.5656	
	39 2-Butanone (MEK)	72	7.590	7.585	0.005	91	3866	0.1061	
	40 Hexane	56	7.585	7.585	0.0	59	3548	0.0599	
	43 Chloroform	83	8.345	8.351	-0.006	22	9869	0.0518	
	49 Cyclohexane	69	9.979	9.990	-0.011	45	2032	0.0475	
	48 Benzene	78	9.984	9.995	-0.011	92	20988	0.0920	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	90	5879	0.0268	
	53 Isooctane	57	10.782	10.788	-0.006	64	10522	0.0299	
	54 n-Heptane	71	11.171	11.182	-0.011	69	5928	0.0687	
	62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	64	3045	0.0227	
	65 Toluene	91	13.398	13.403	-0.005	89	30982	0.1154	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	76	2950	0.0258	
	76 Ethylbenzene	91	15.722	15.722	0.0	95	32836	0.0954	
	78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	164218	0.6068	
	82 o-Xylene	91	16.407	16.412	-0.005	96	52148	0.1783	
	88 4-Ethyltoluene	105	17.701	17.701	0.0	68	14094	0.0381	
	93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	79	13334	0.0434	

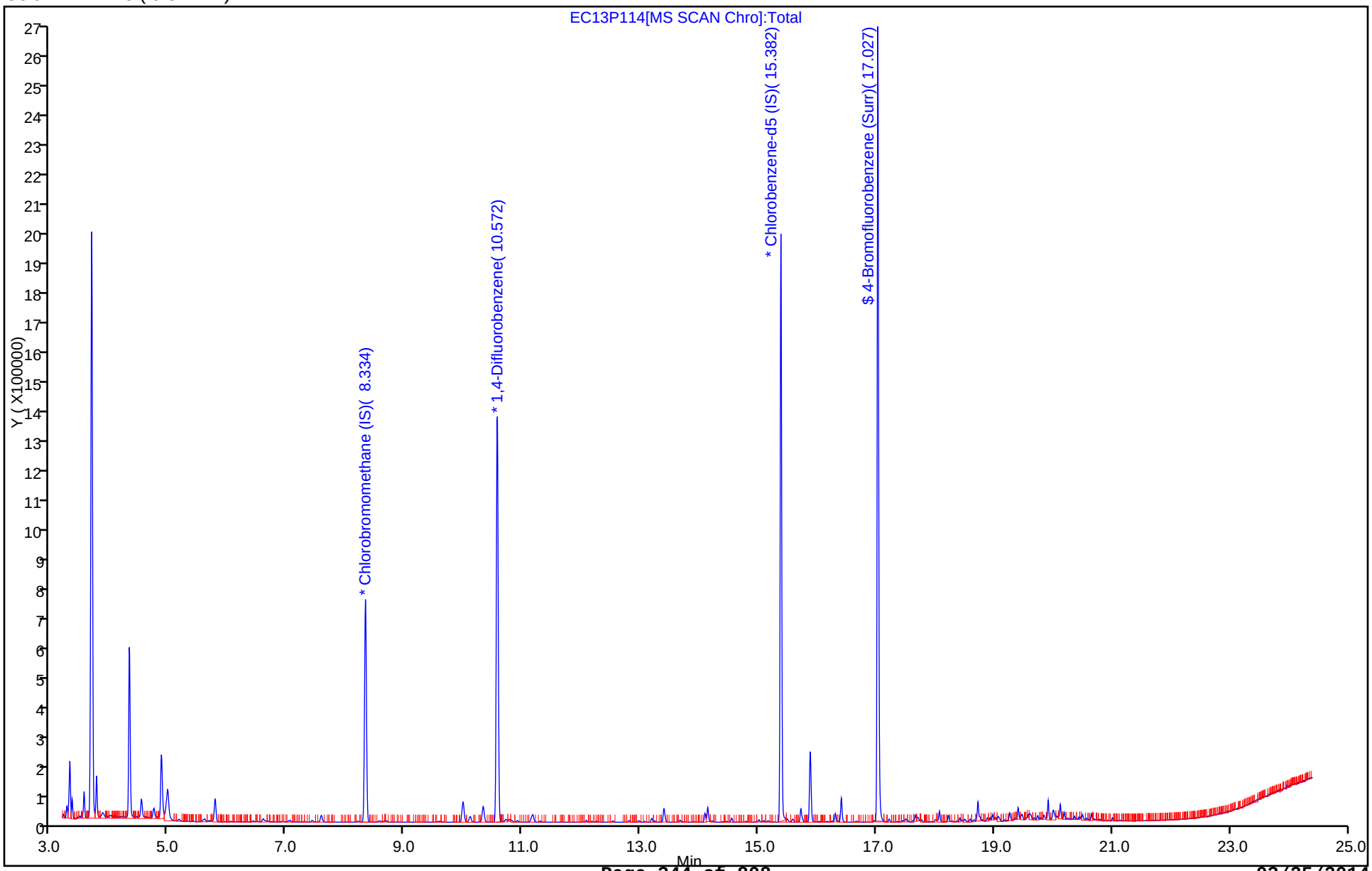
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8	Worklist Smp#:	20
Client ID:	PCV-IA3-B16				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

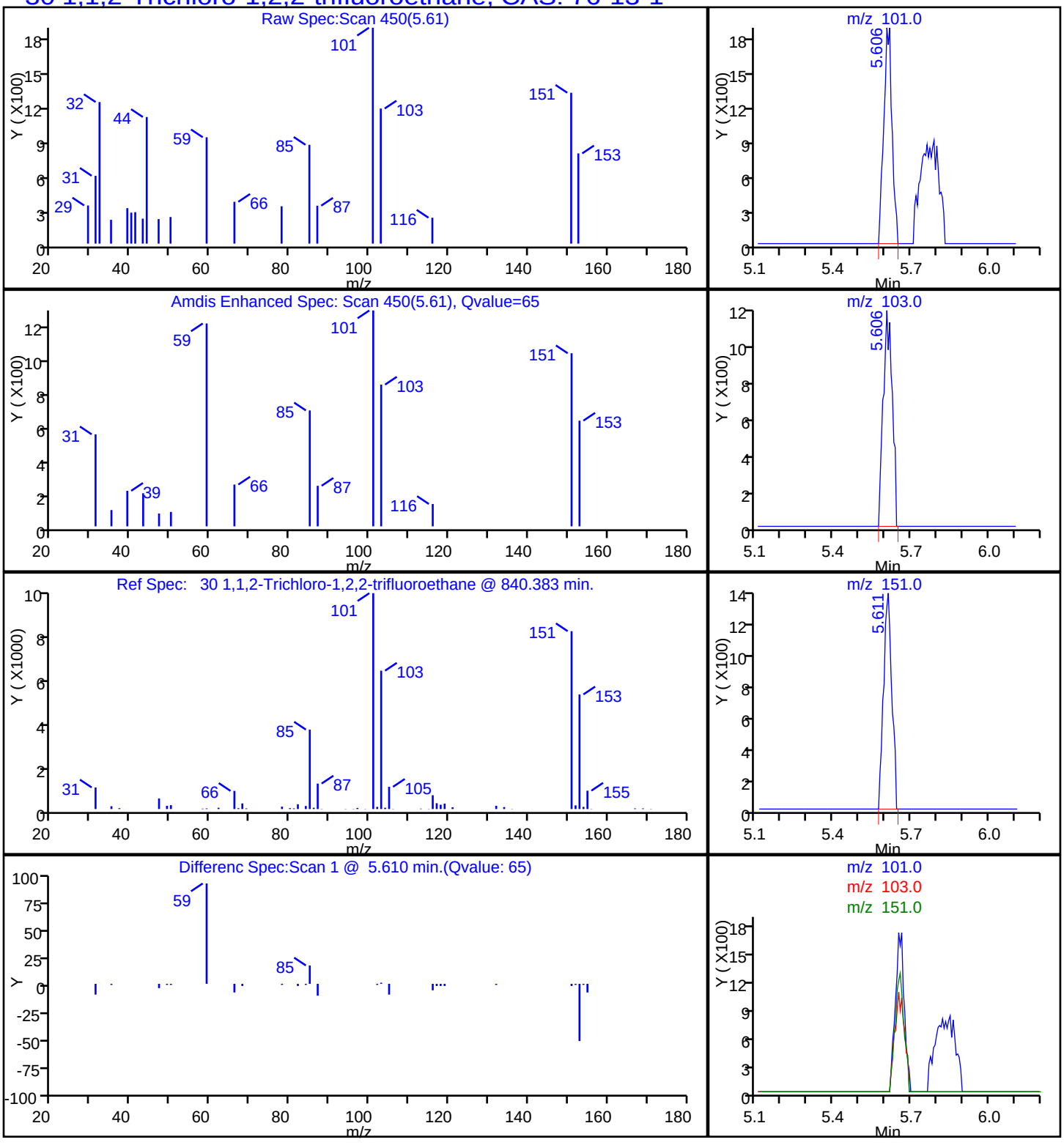
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



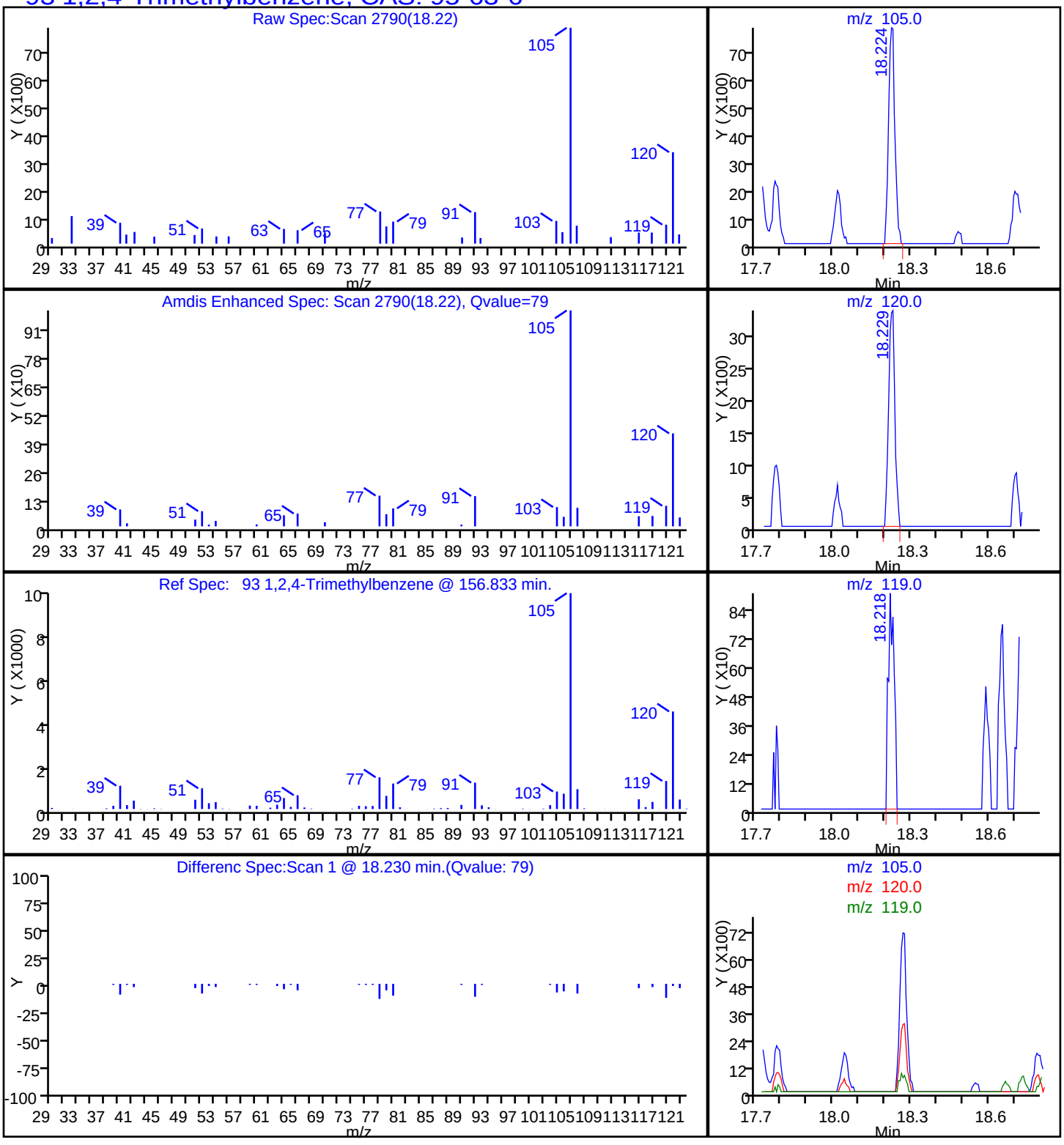
Report Date: 14-Mar-2014 07:27:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

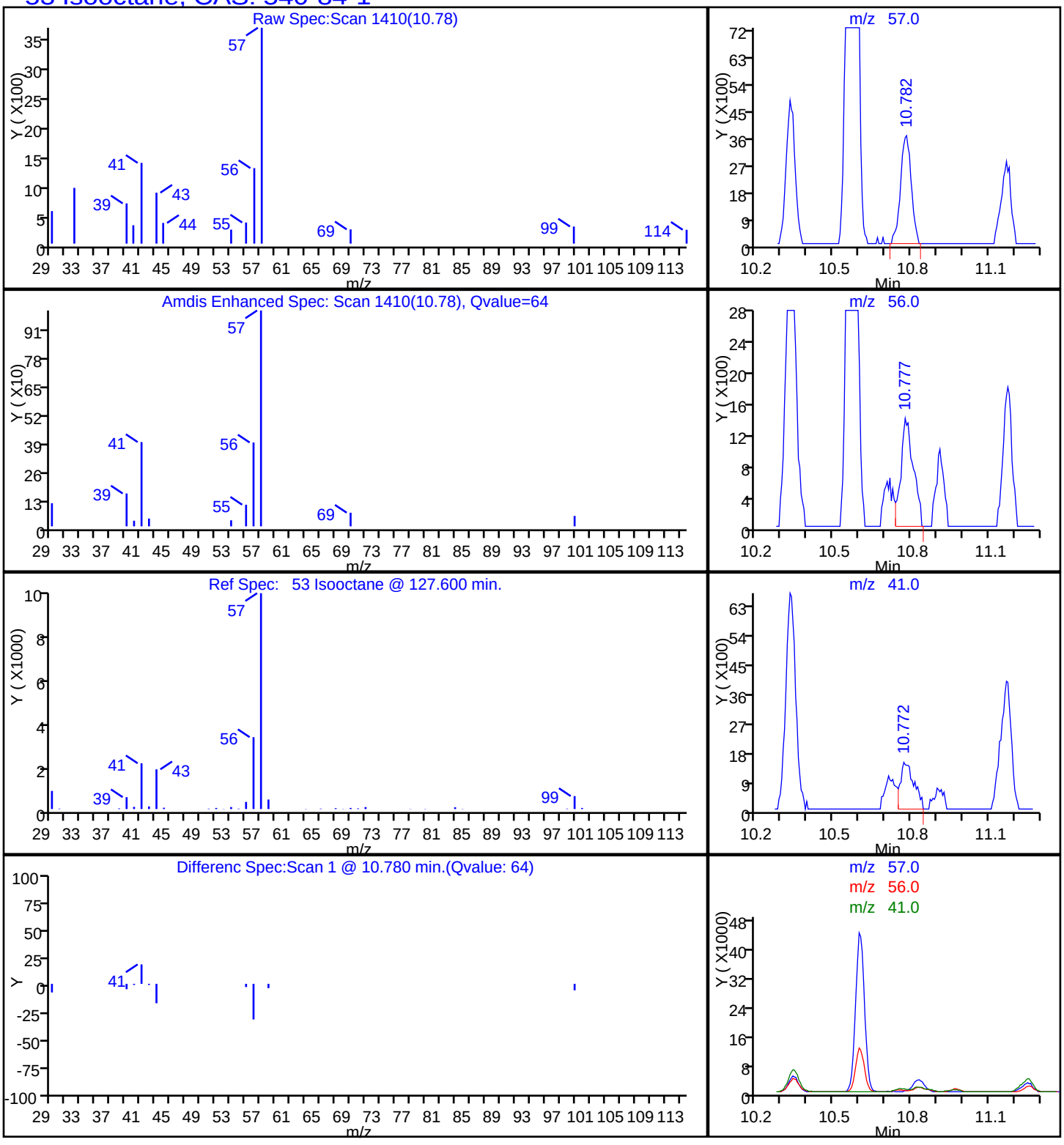
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

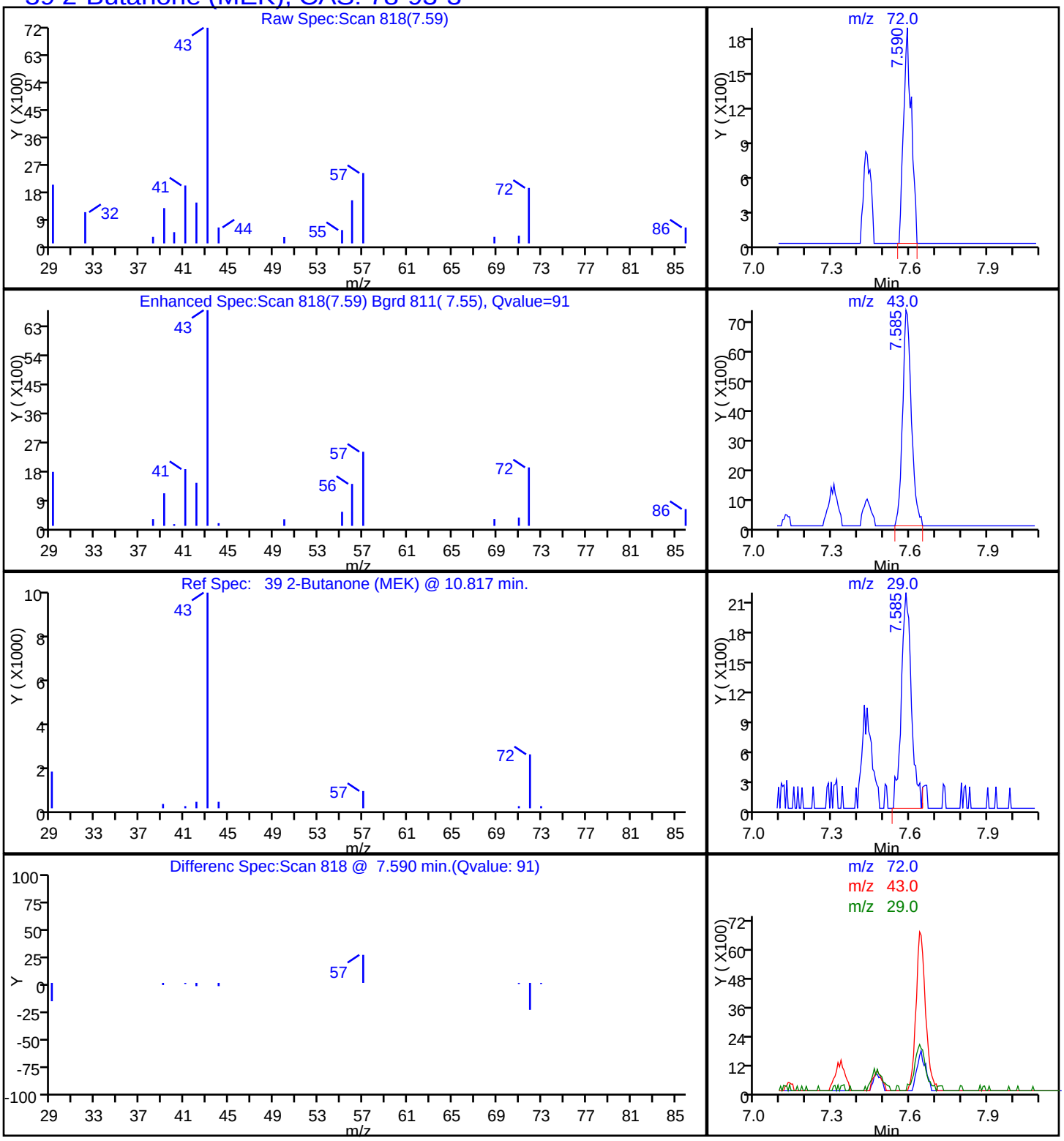
53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D		
Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

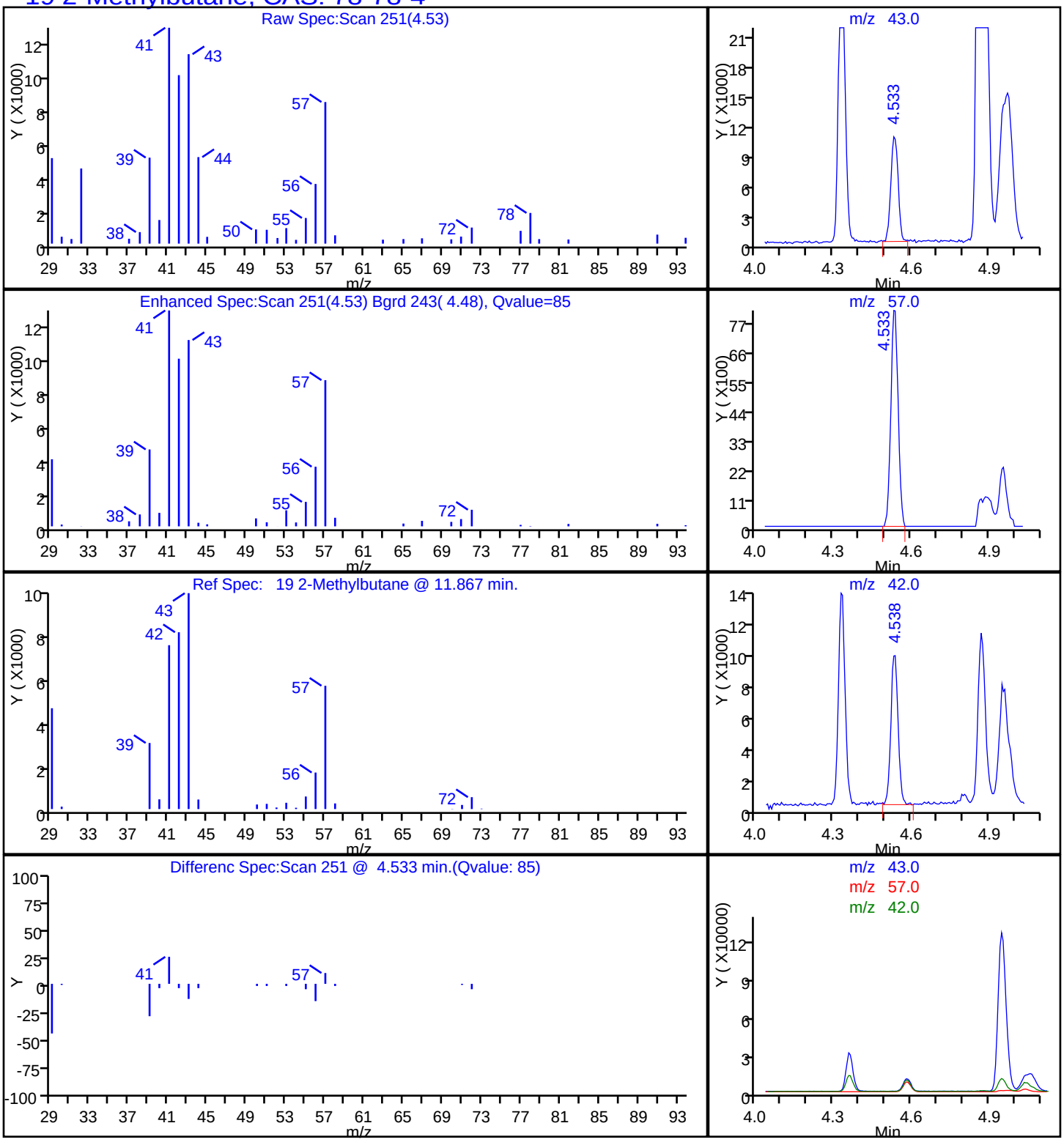
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

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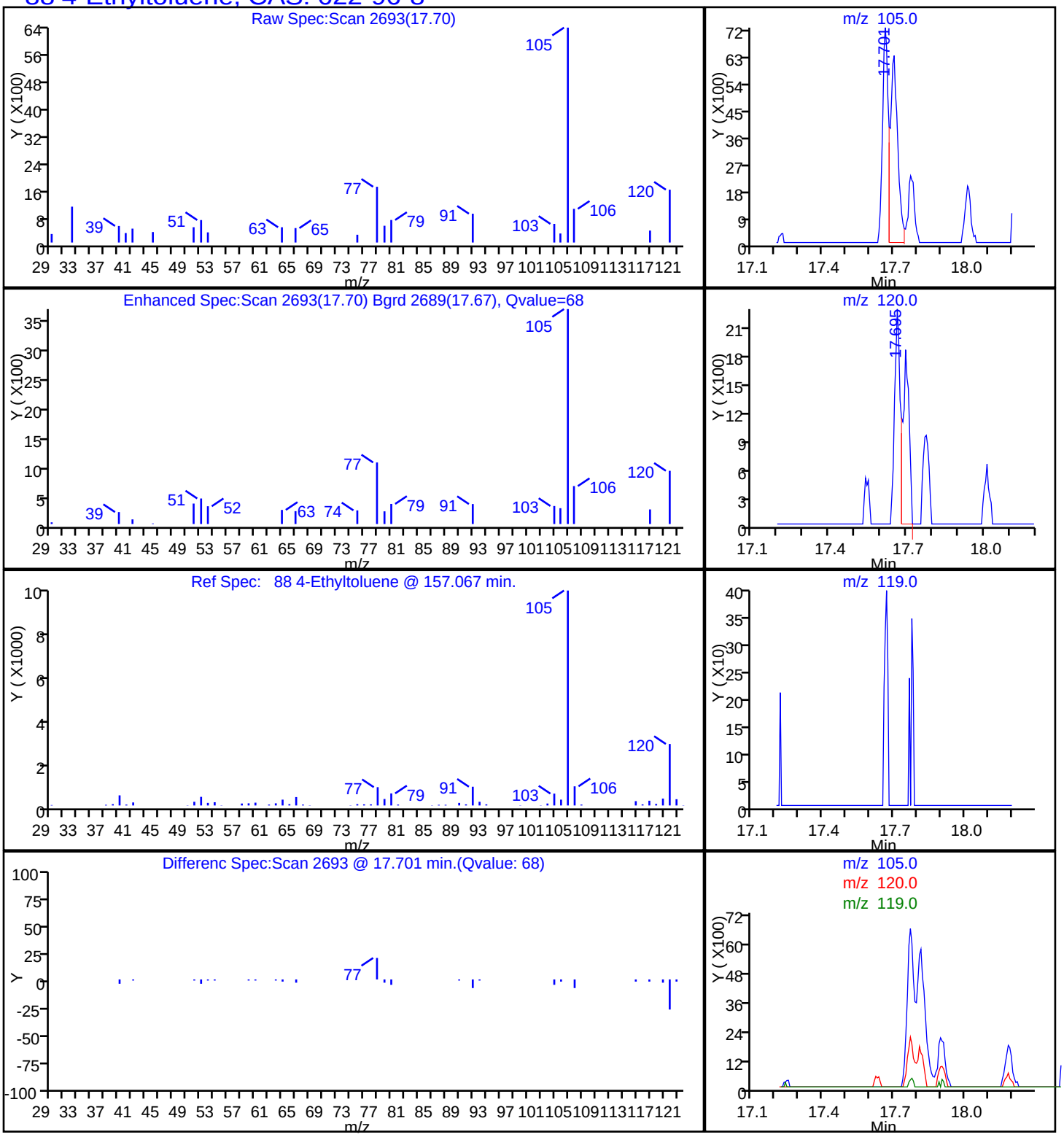
Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



Report Date: 14-Mar-2014 07:27:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

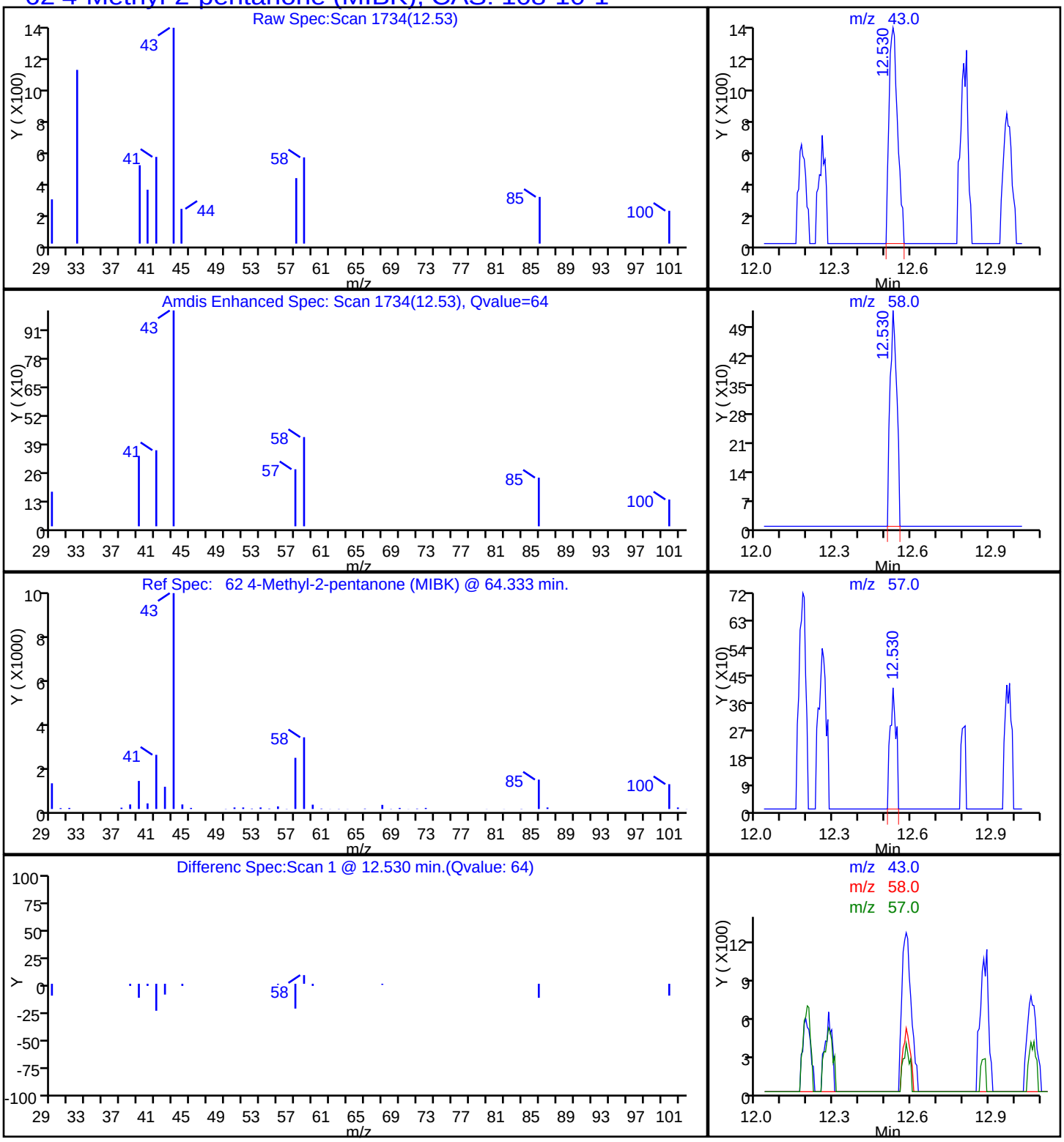
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



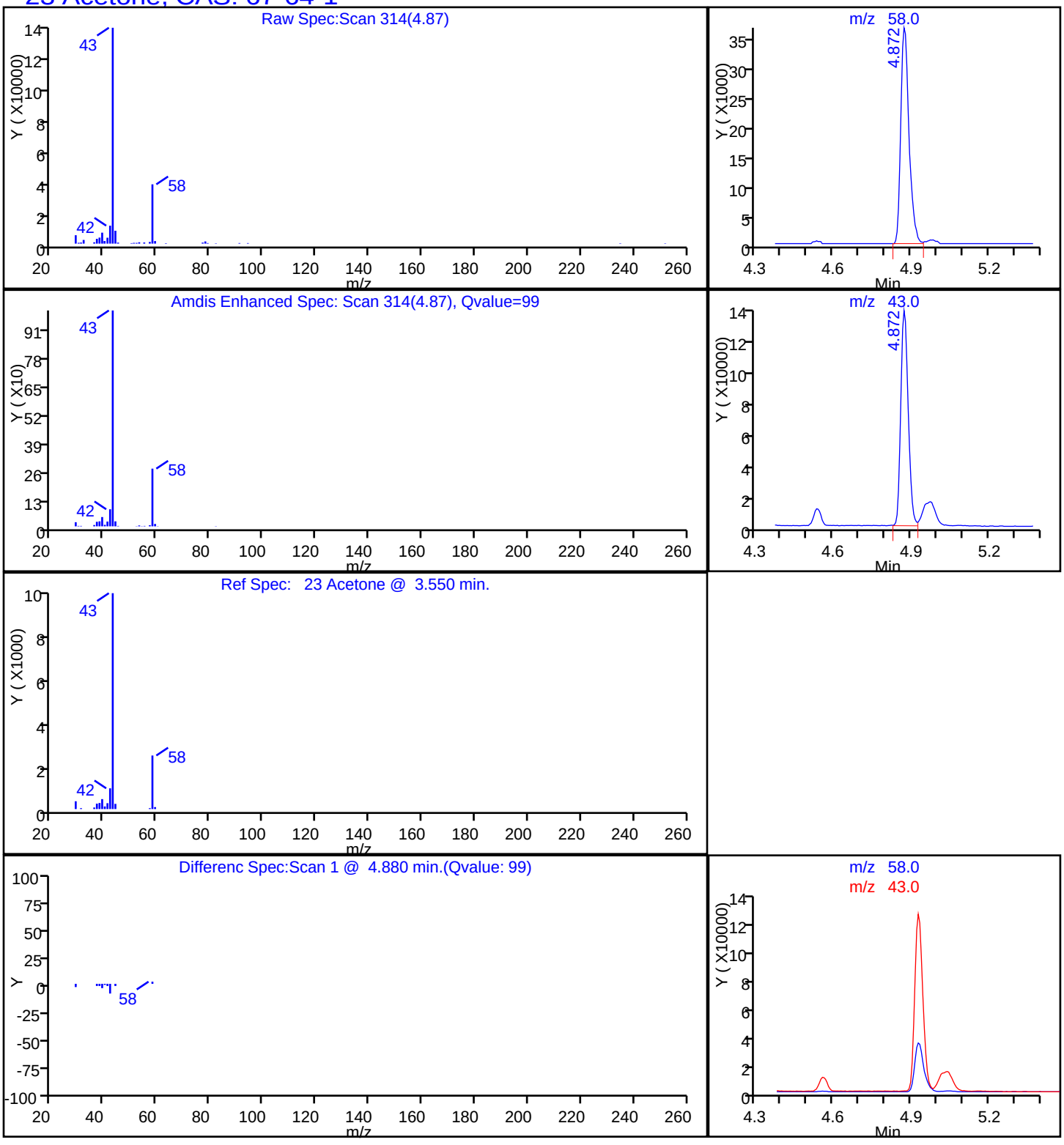
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



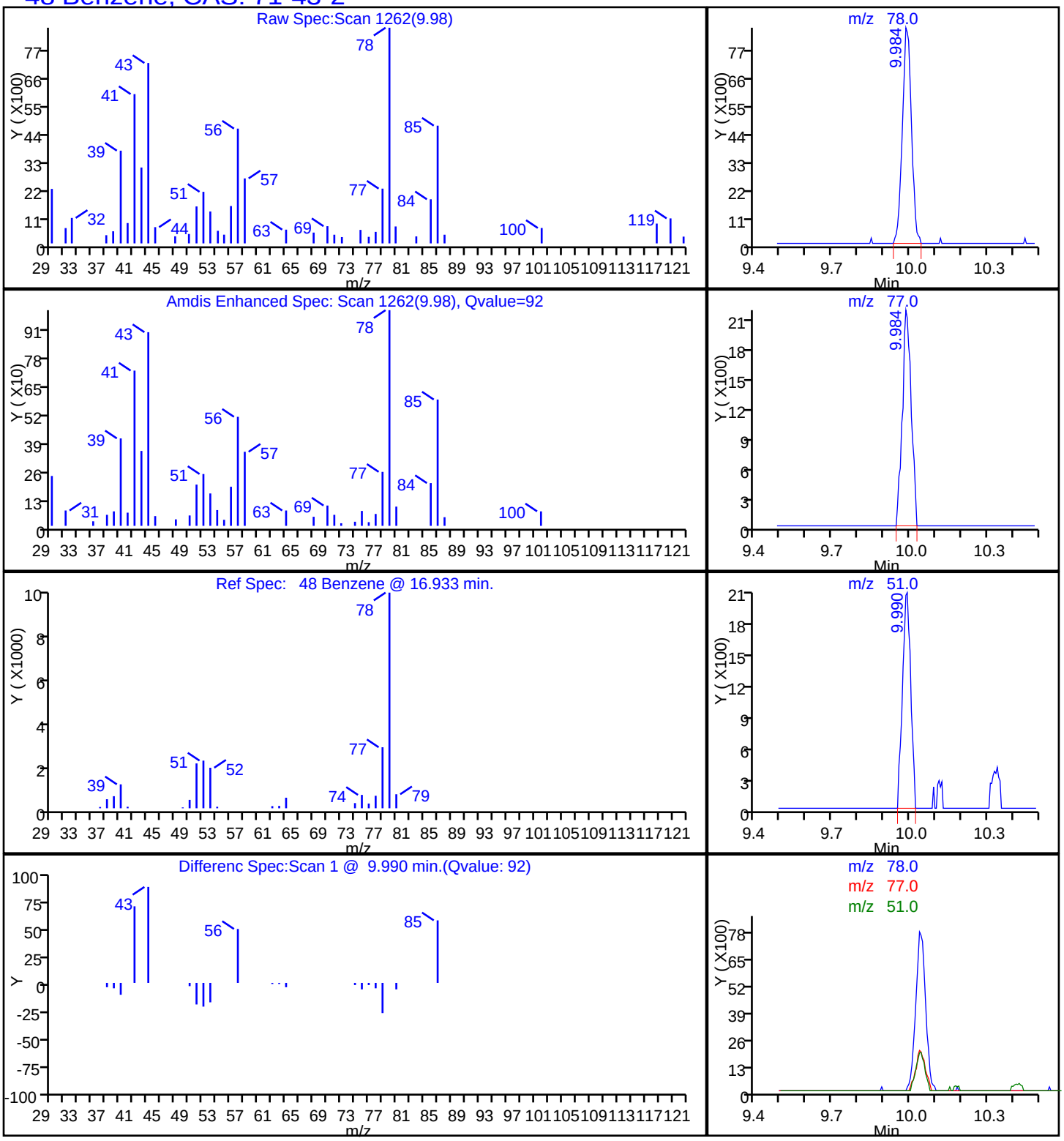
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

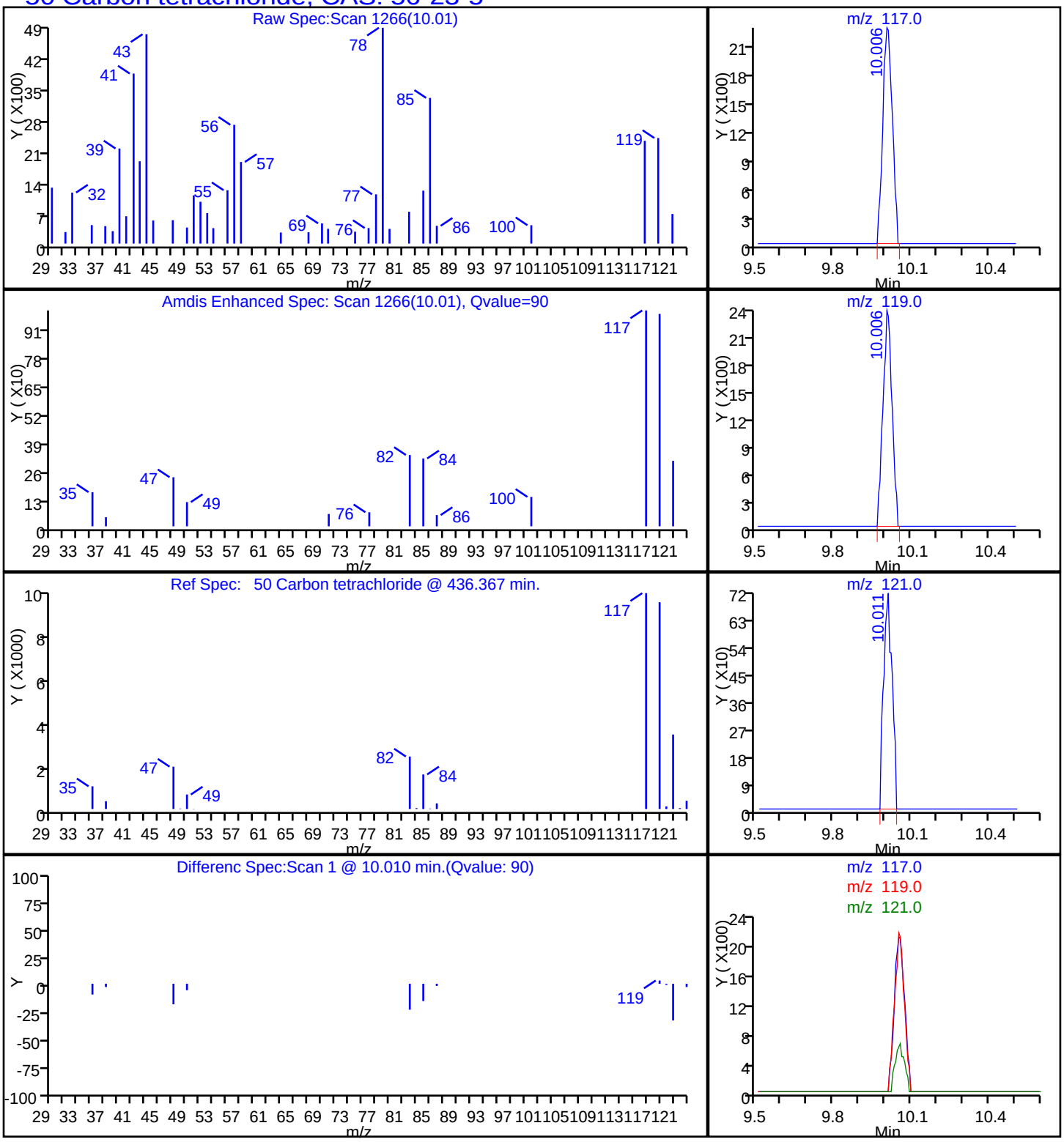
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

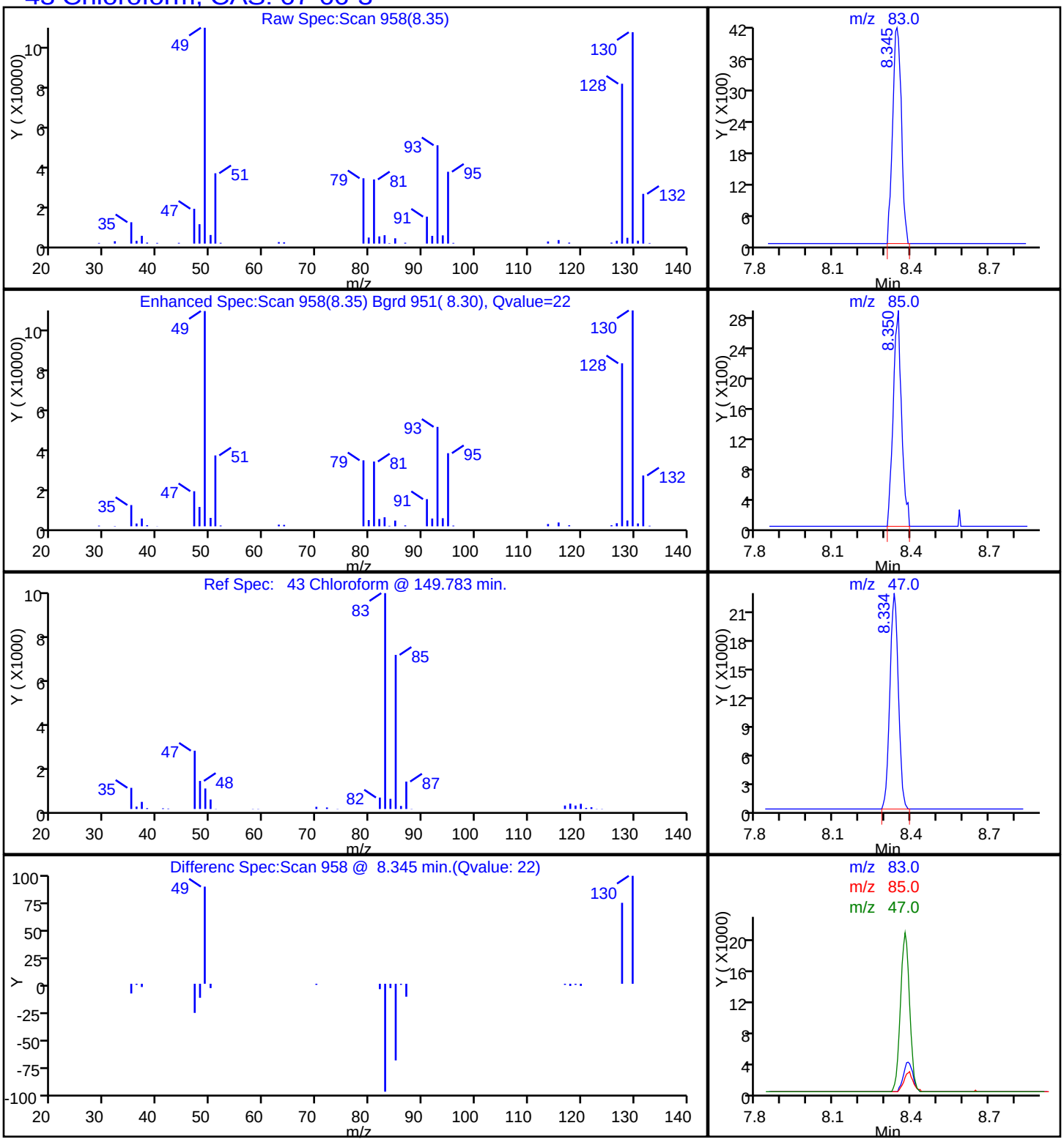
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

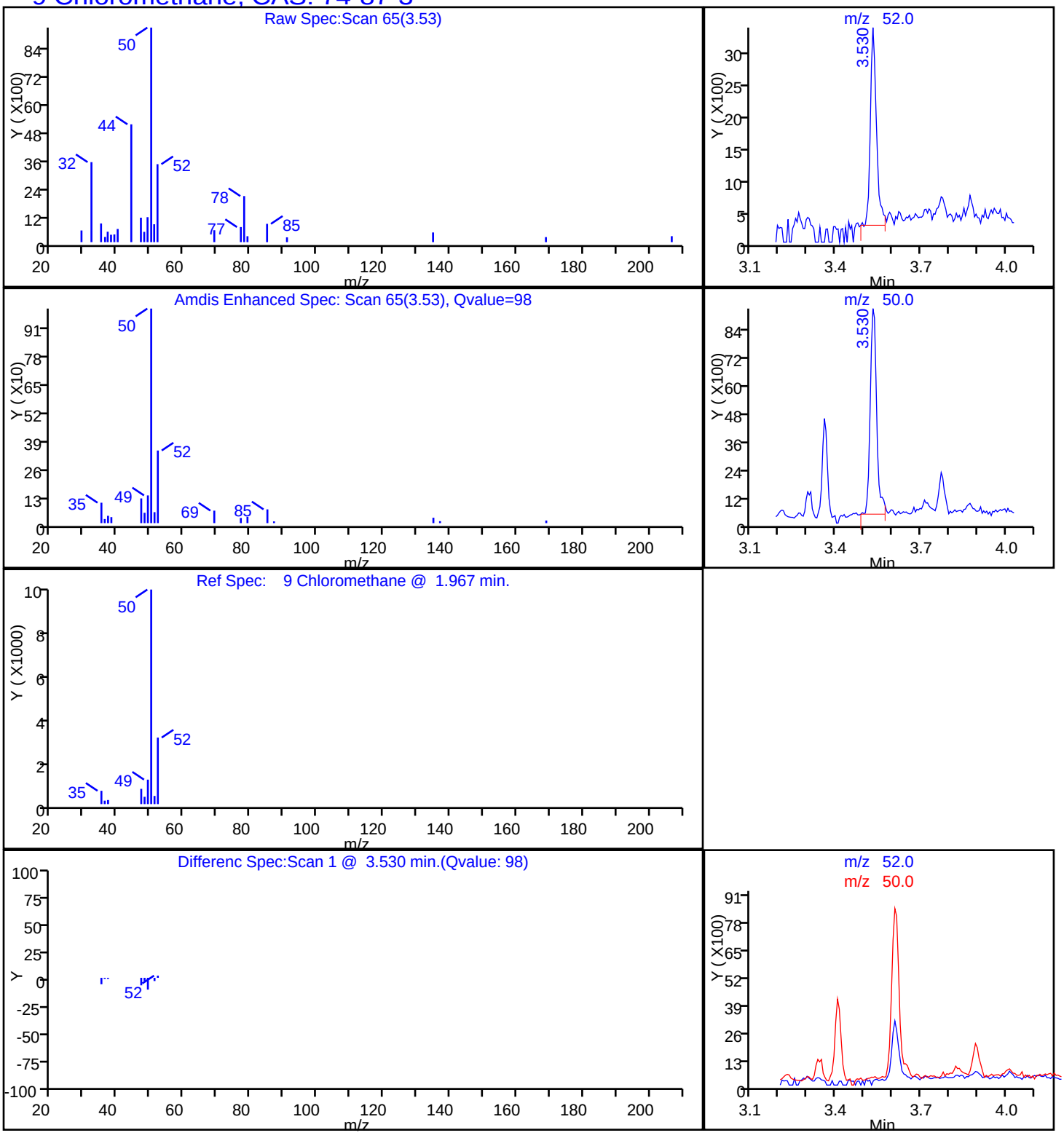
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



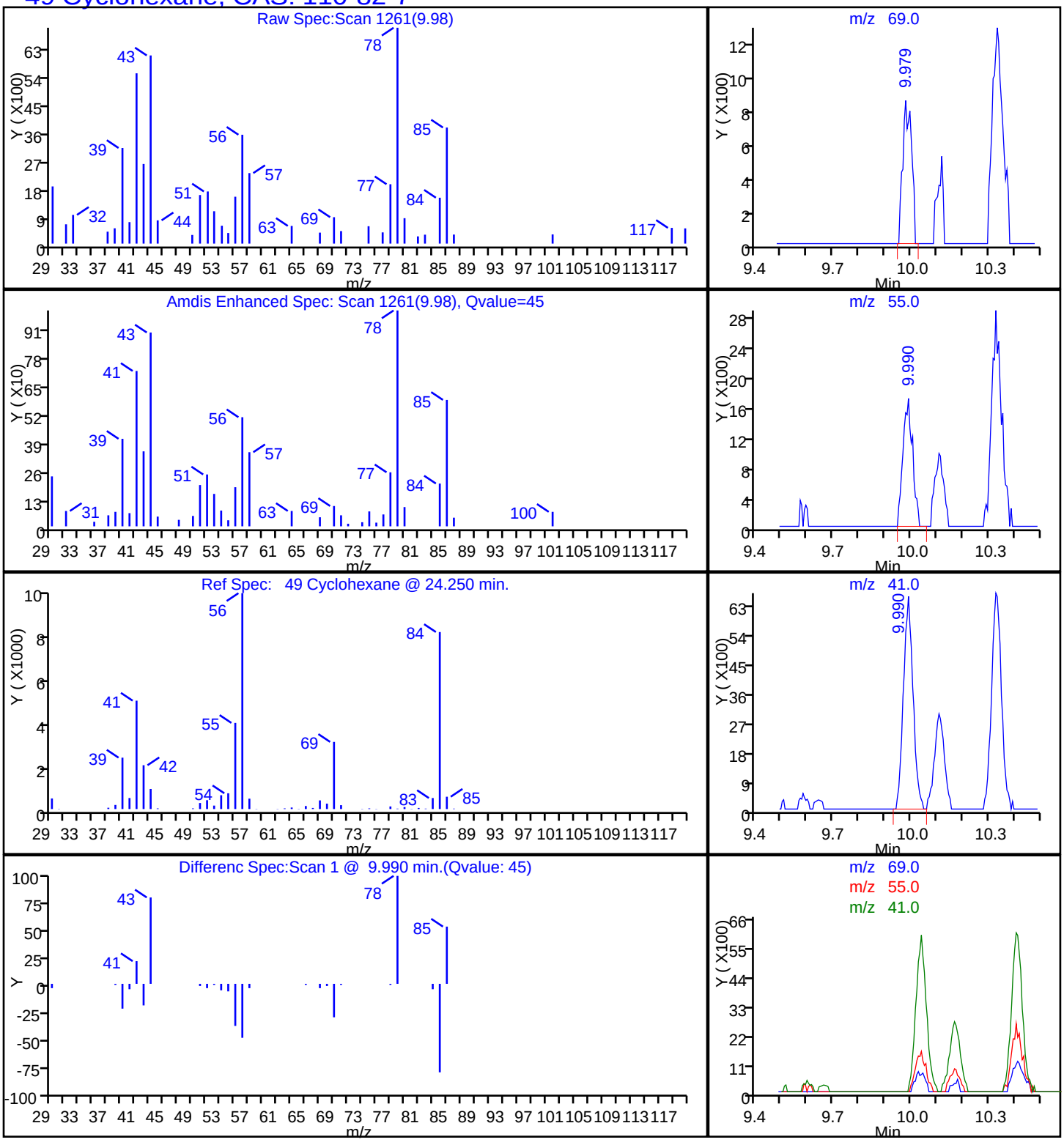
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

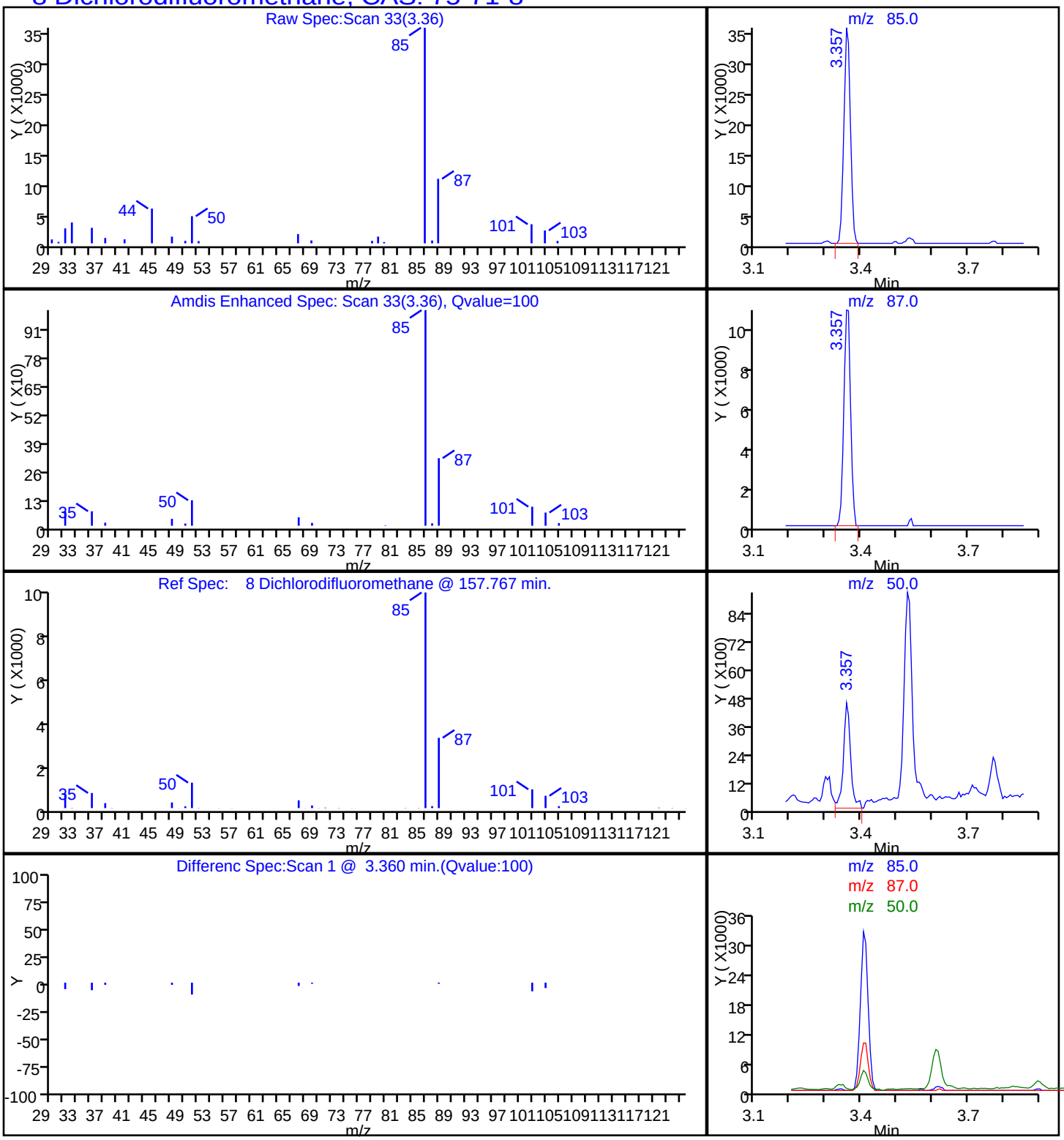
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



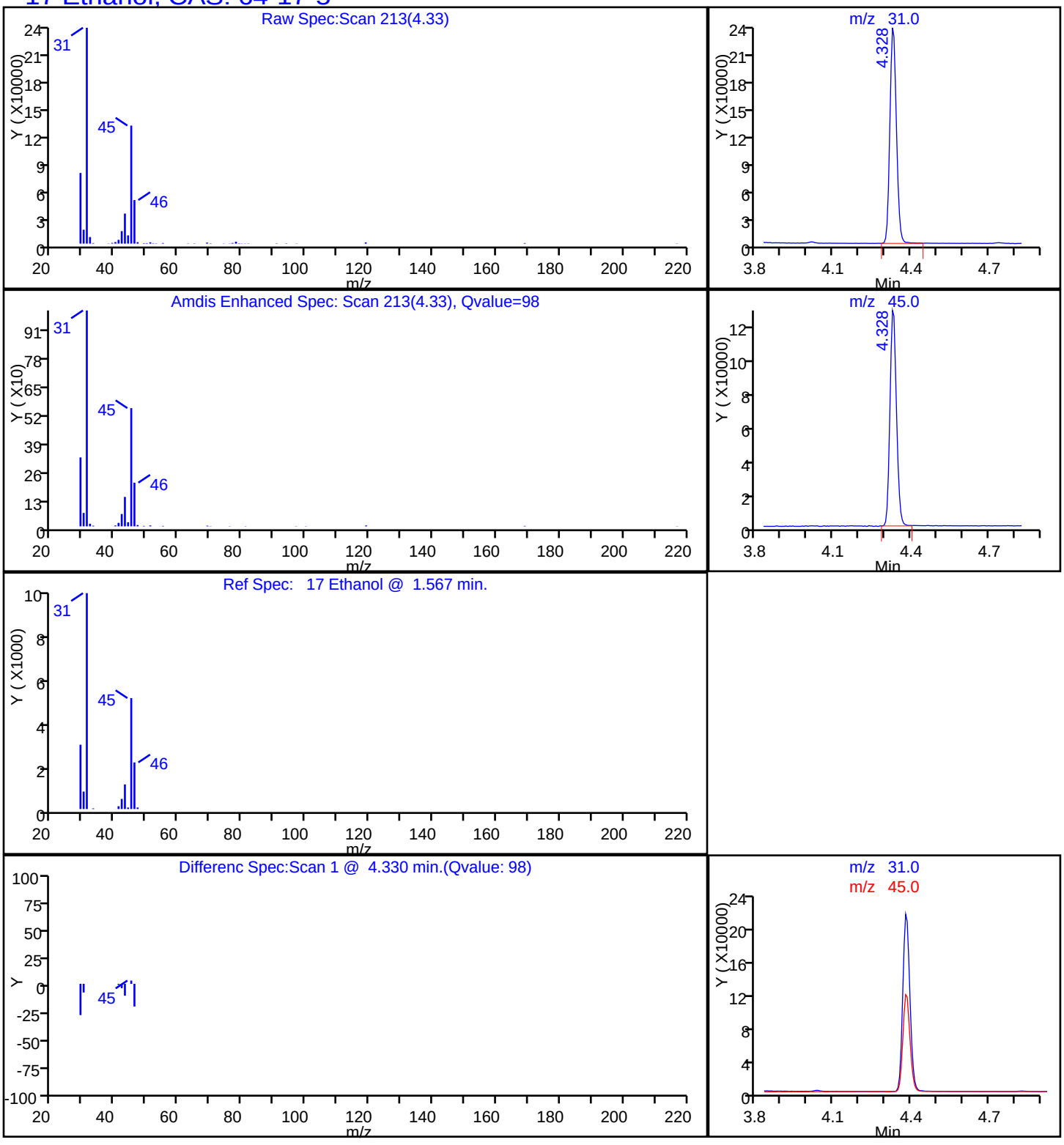
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



Report Date: 14-Mar-2014 07:27:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME

Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8

Client ID: PCV-IA3-B16

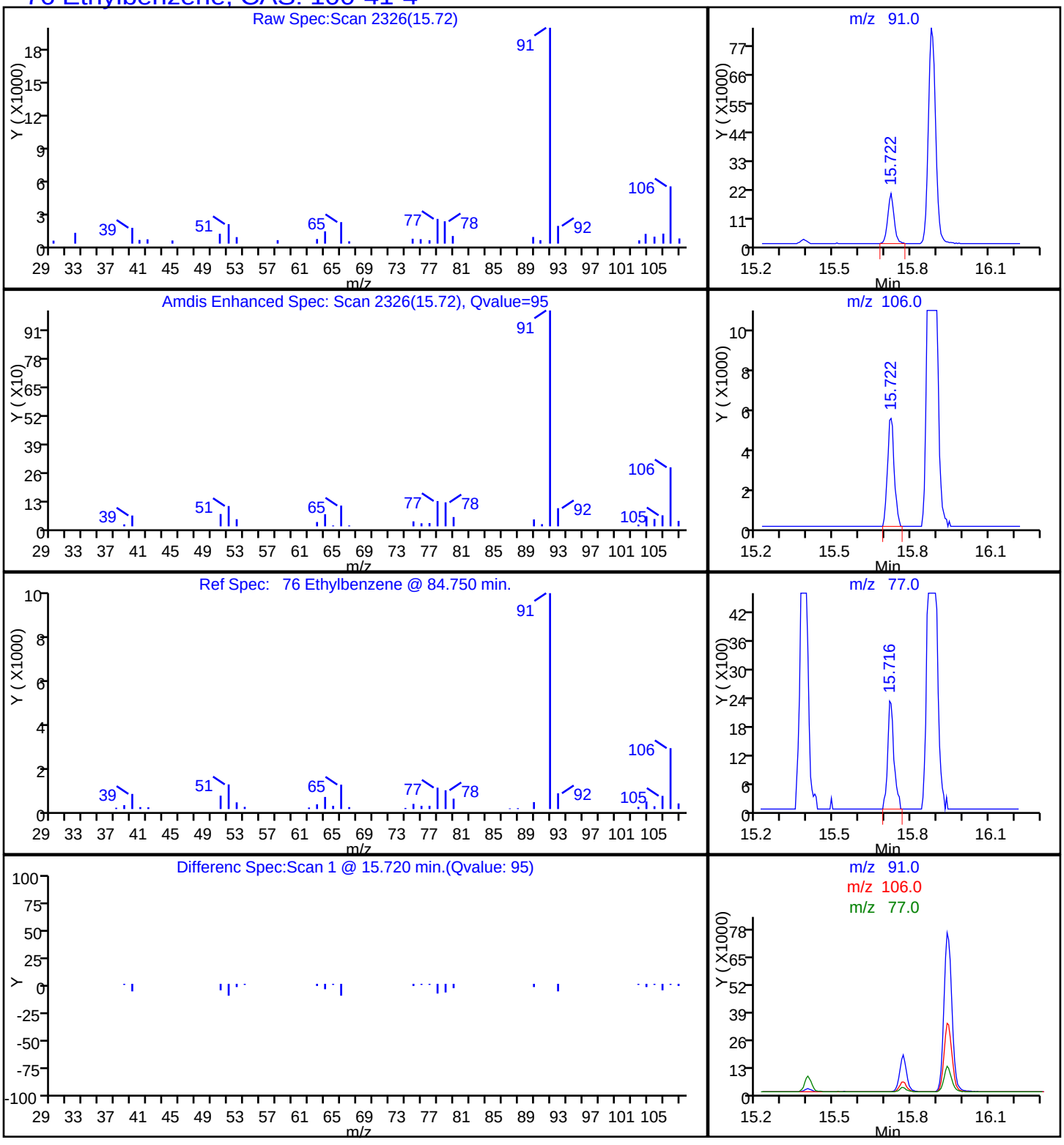
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



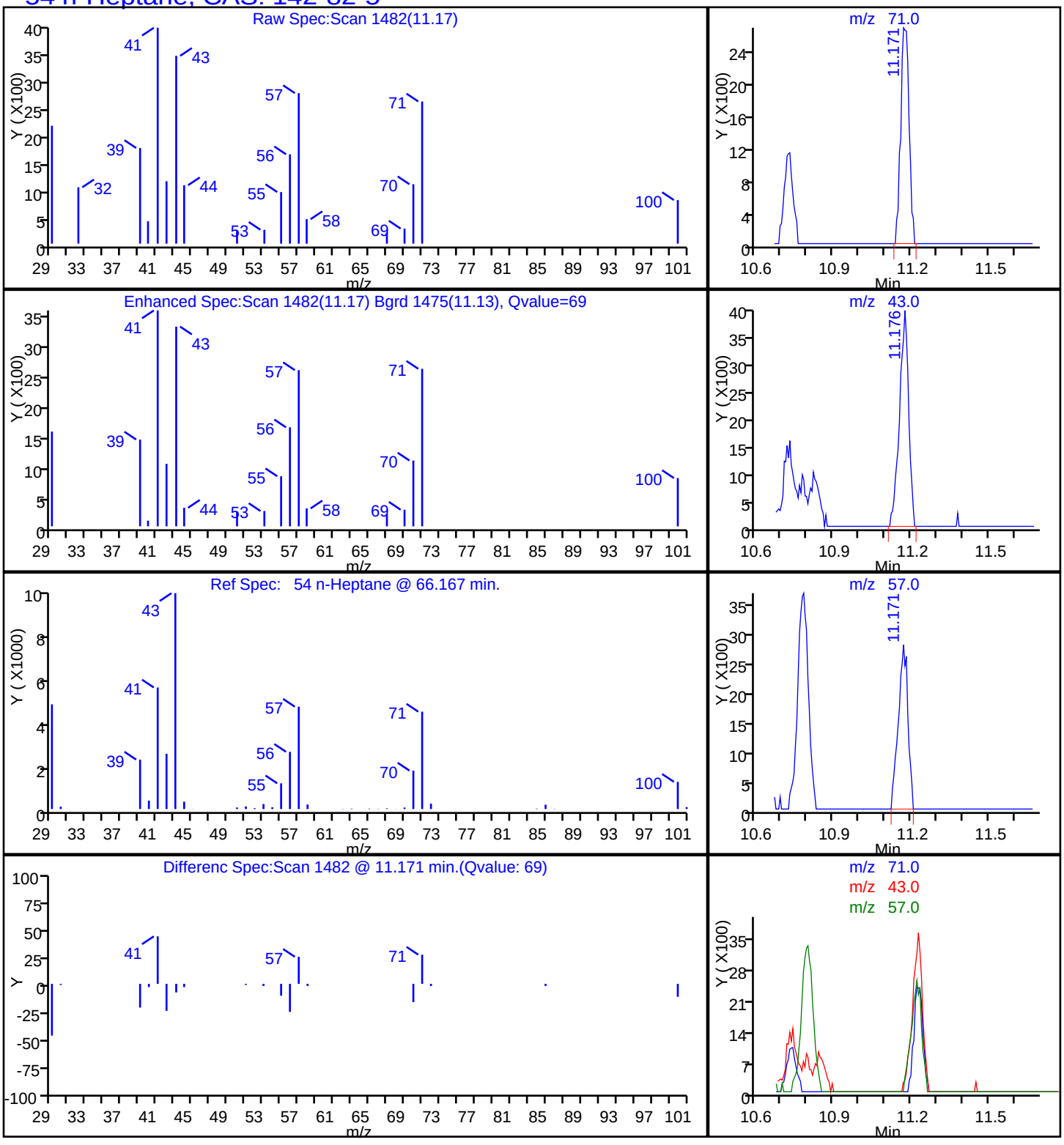
Report Date: 14-Mar-2014 07:27:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



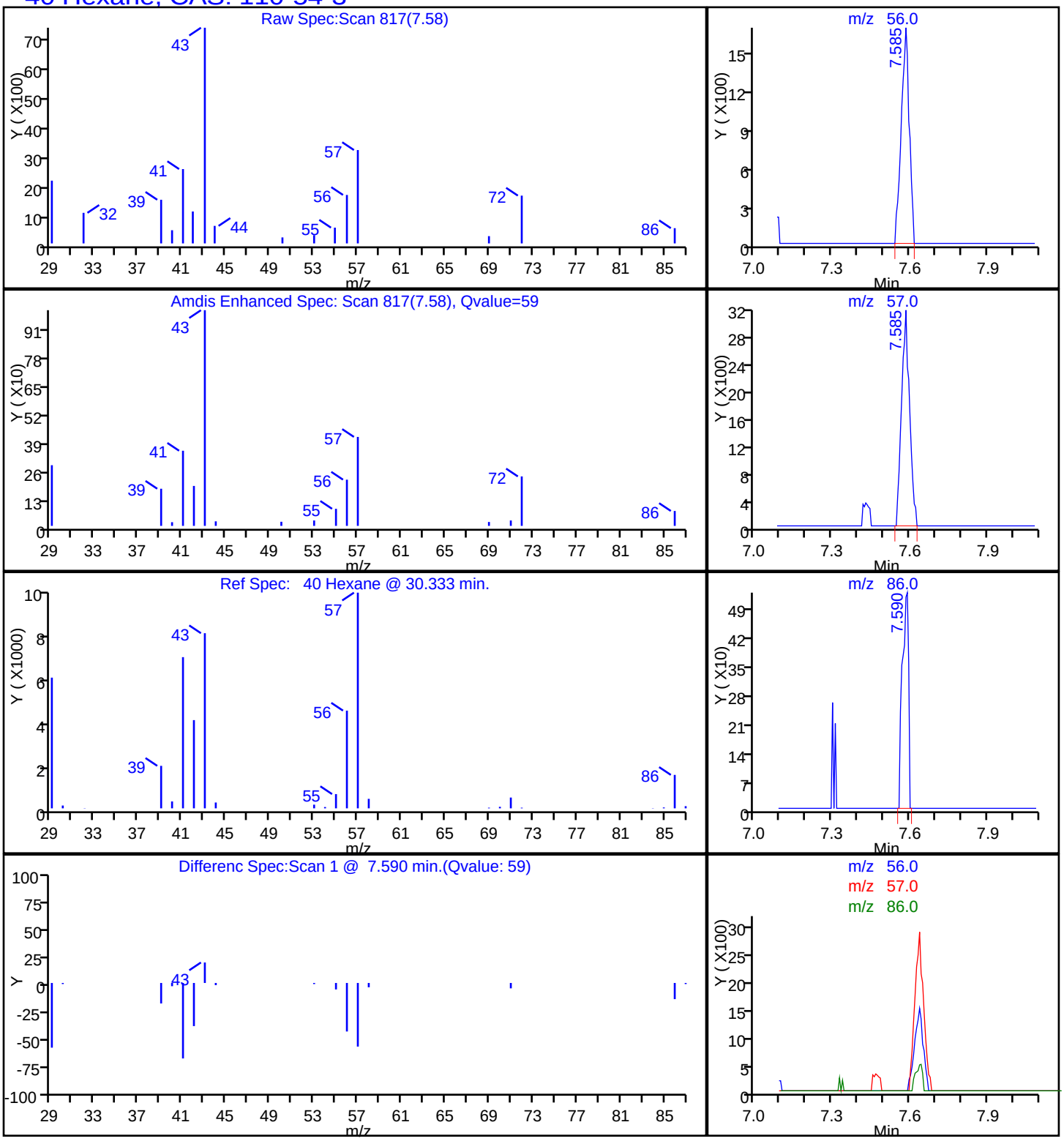
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D				
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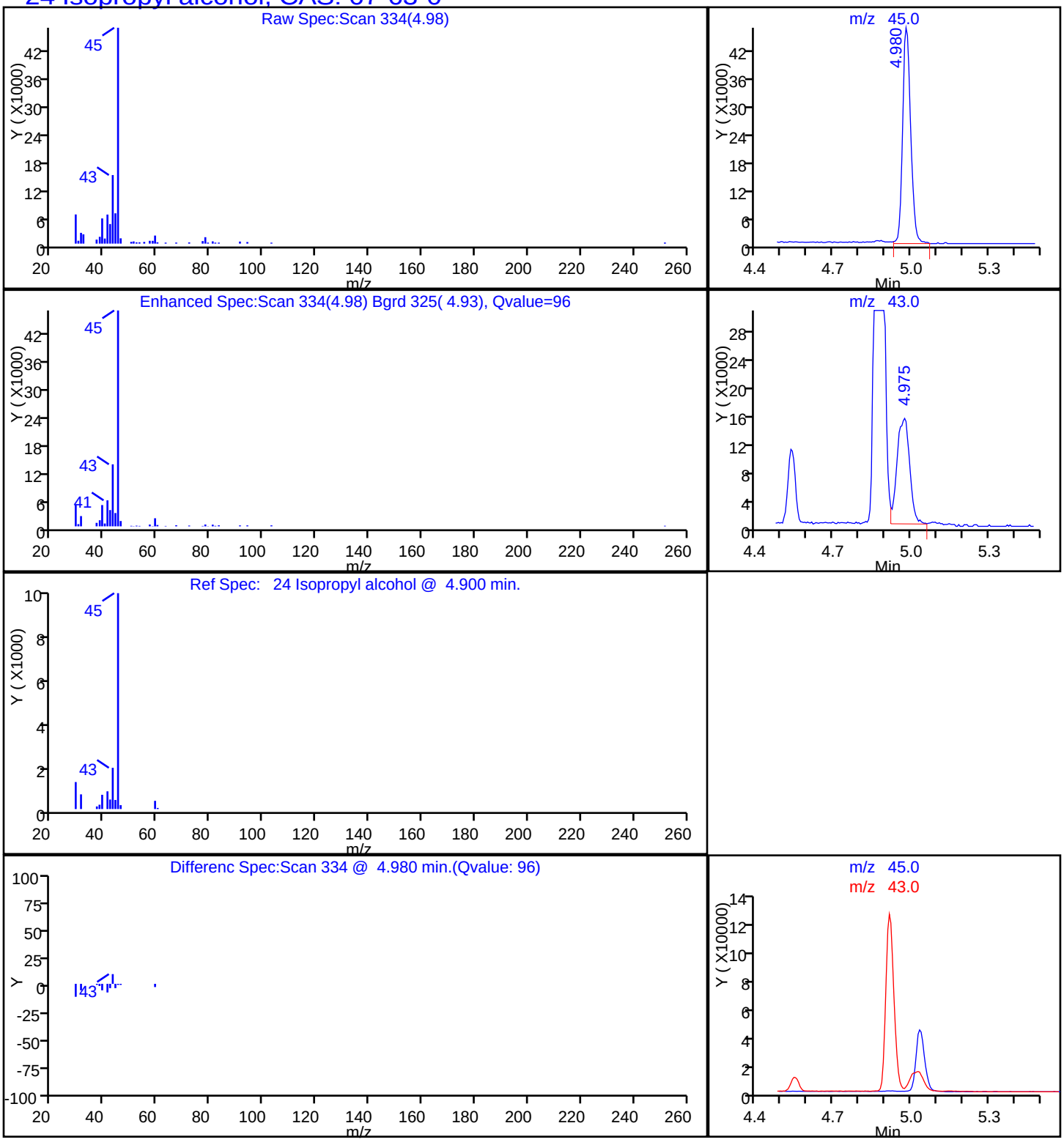
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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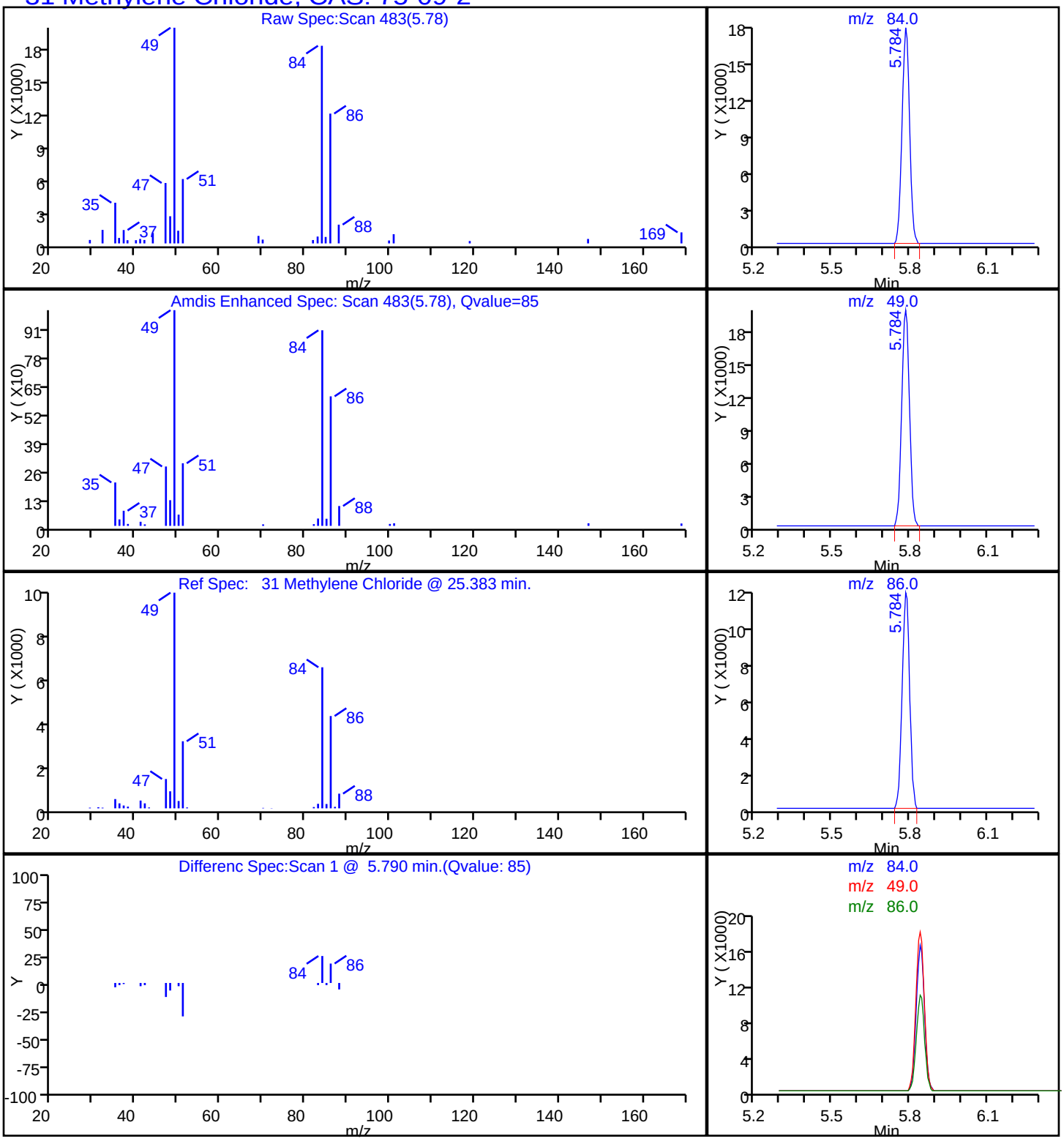
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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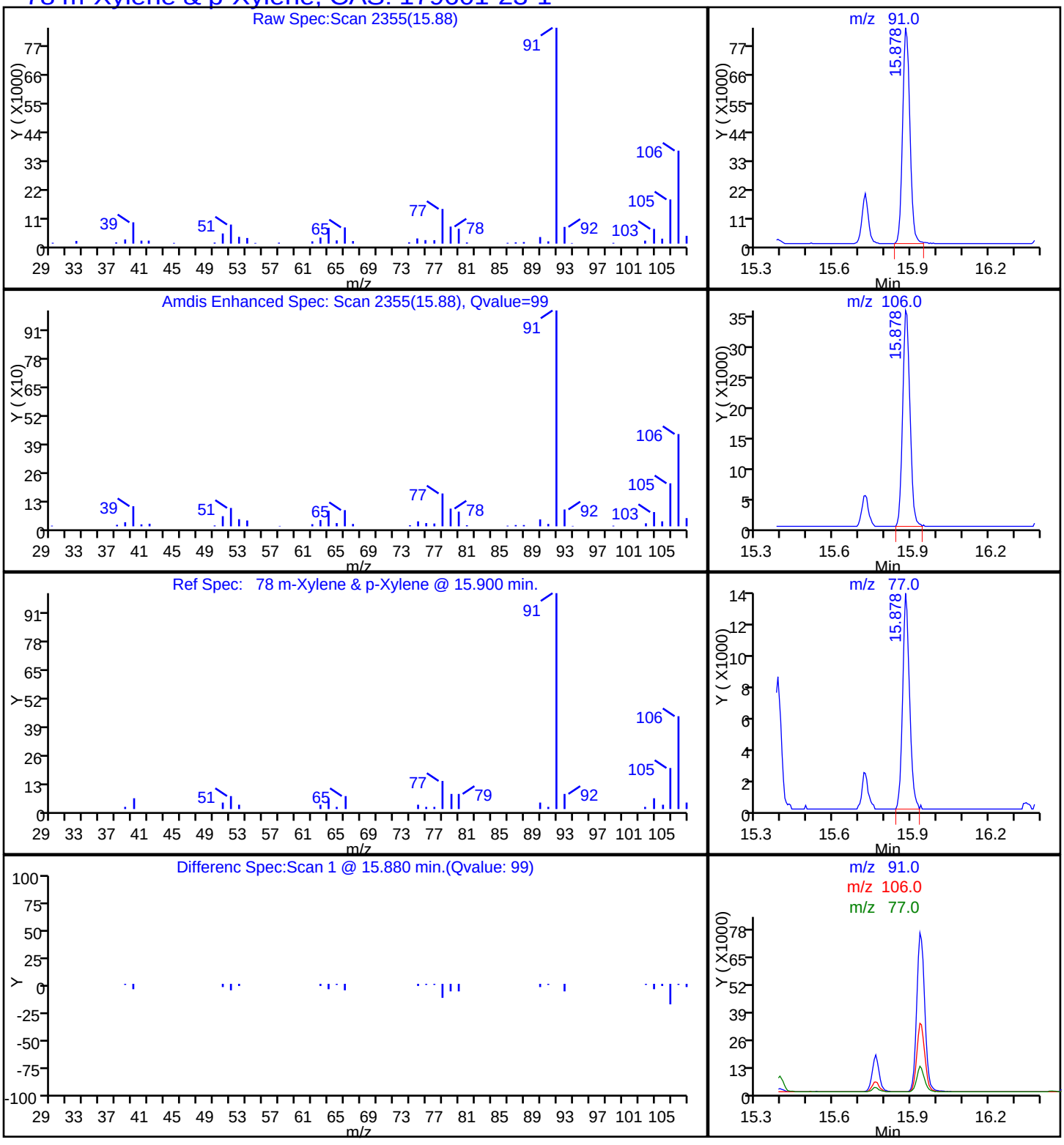
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

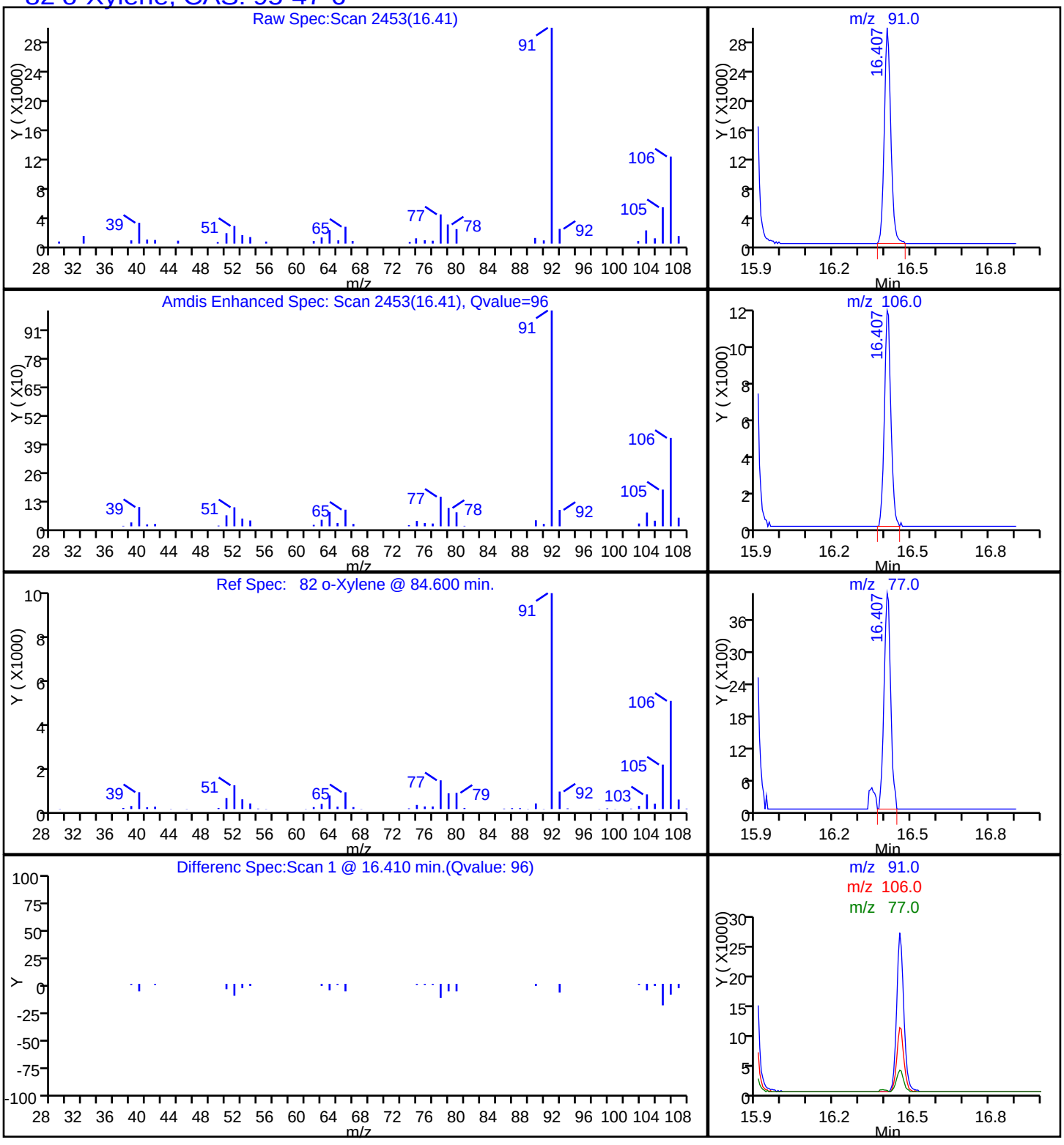
Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D
Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME
Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8
Client ID: PCV-IA3-B16
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

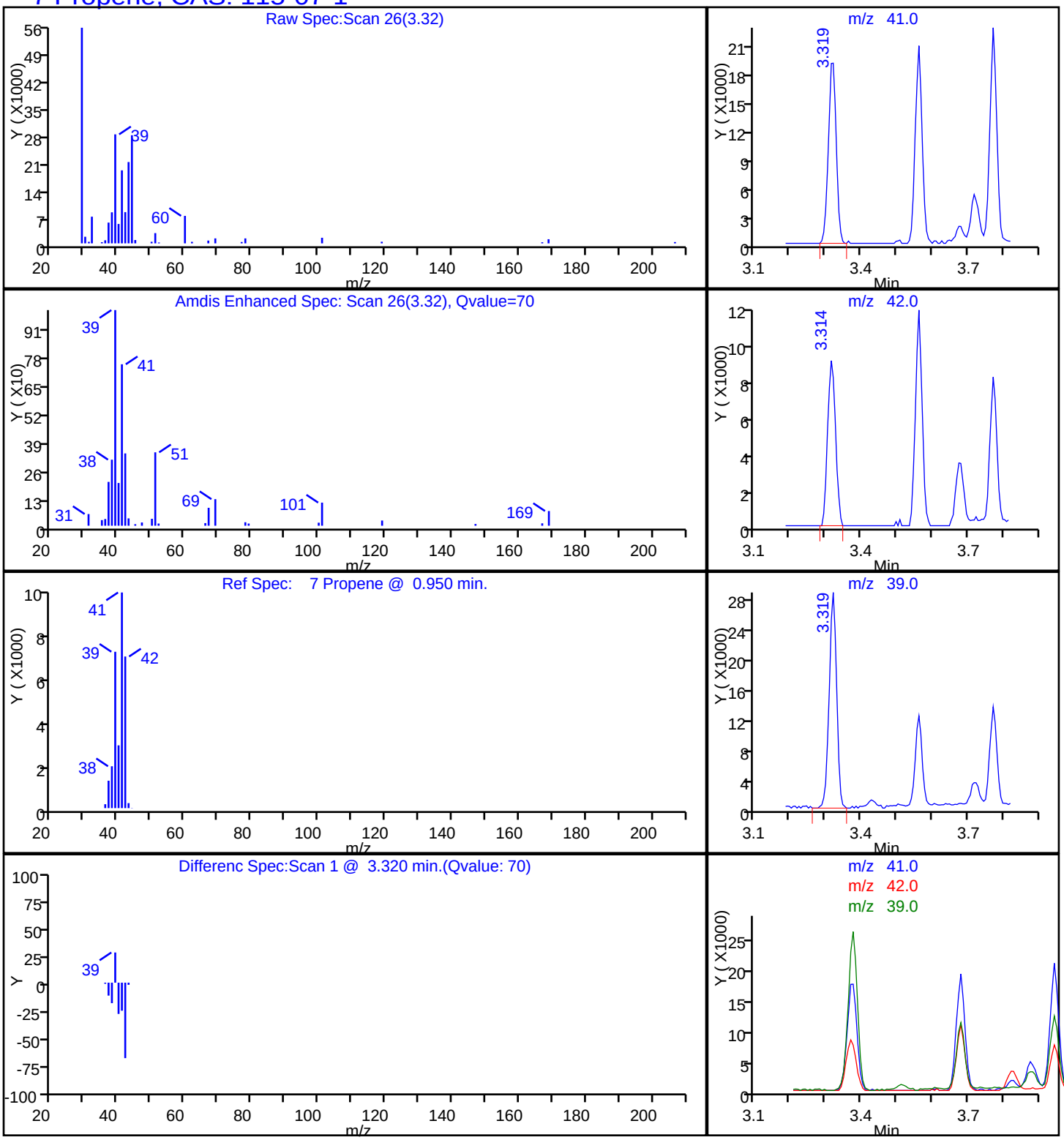
82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

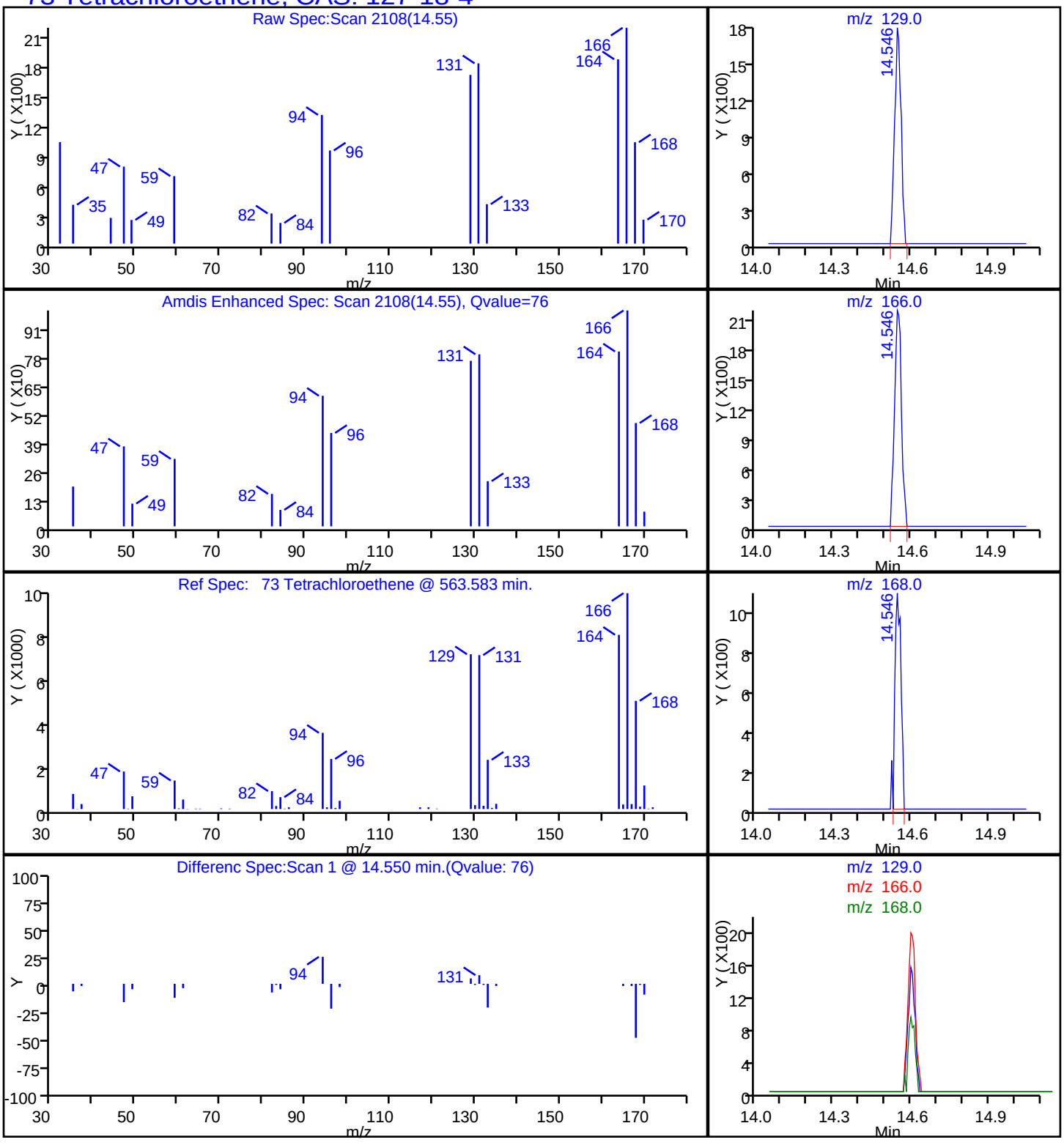
Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D		
Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8
Client ID:	PCV-IA3-B16		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D
Injection Date: 14-Mar-2014 01:46:30 Instrument ID: ME
Lims ID: 140-1037-A-8 Lab Sample ID: 140-1037-8
Client ID: PCV-IA3-B16
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



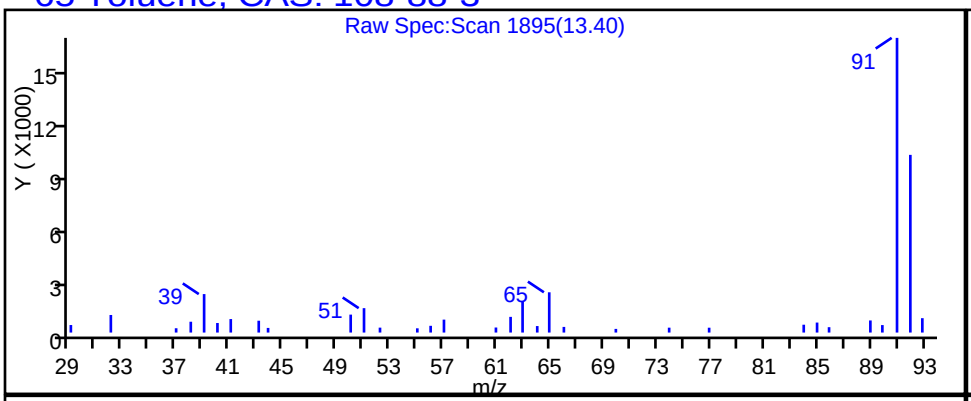
Report Date: 14-Mar-2014 07:27:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

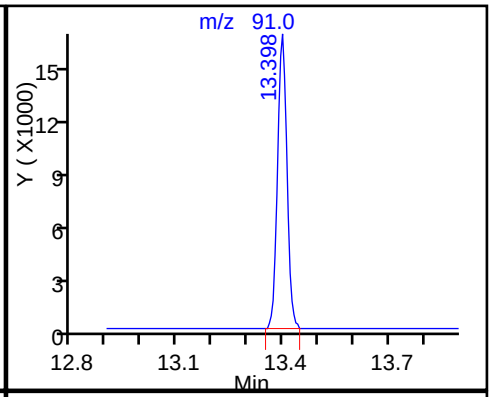
TestAmerica Knoxville

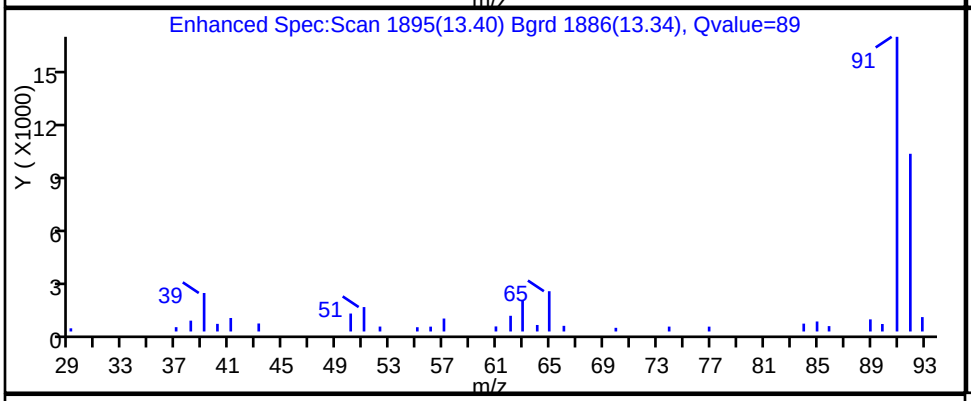
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

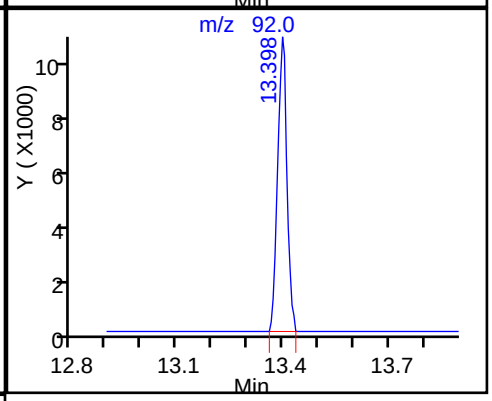
Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

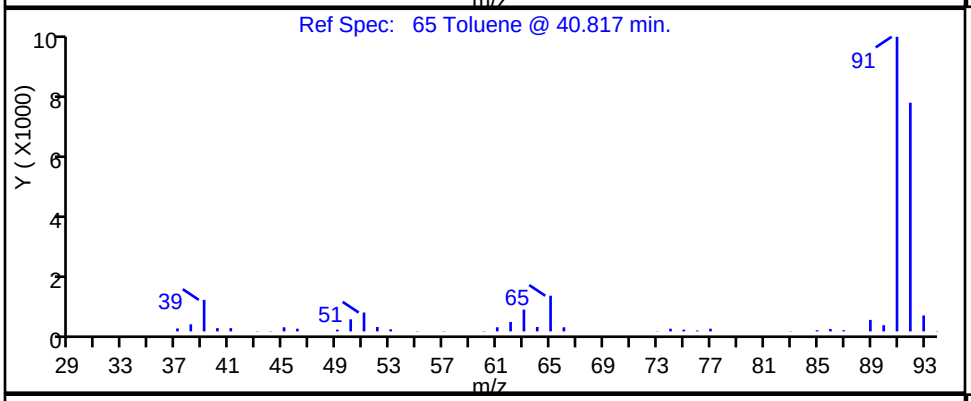
65 Toluene, CAS: 108-88-3

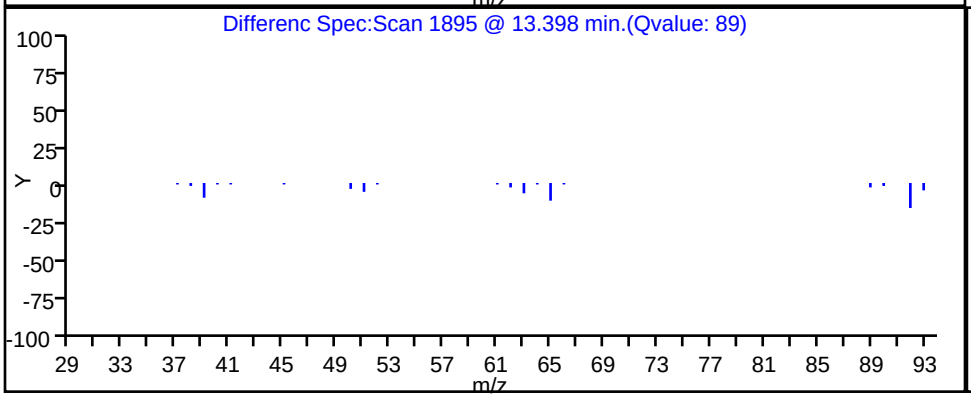


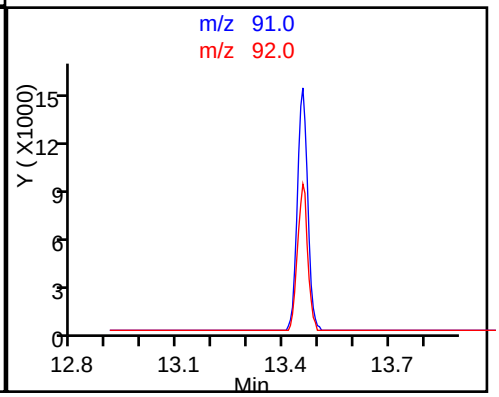












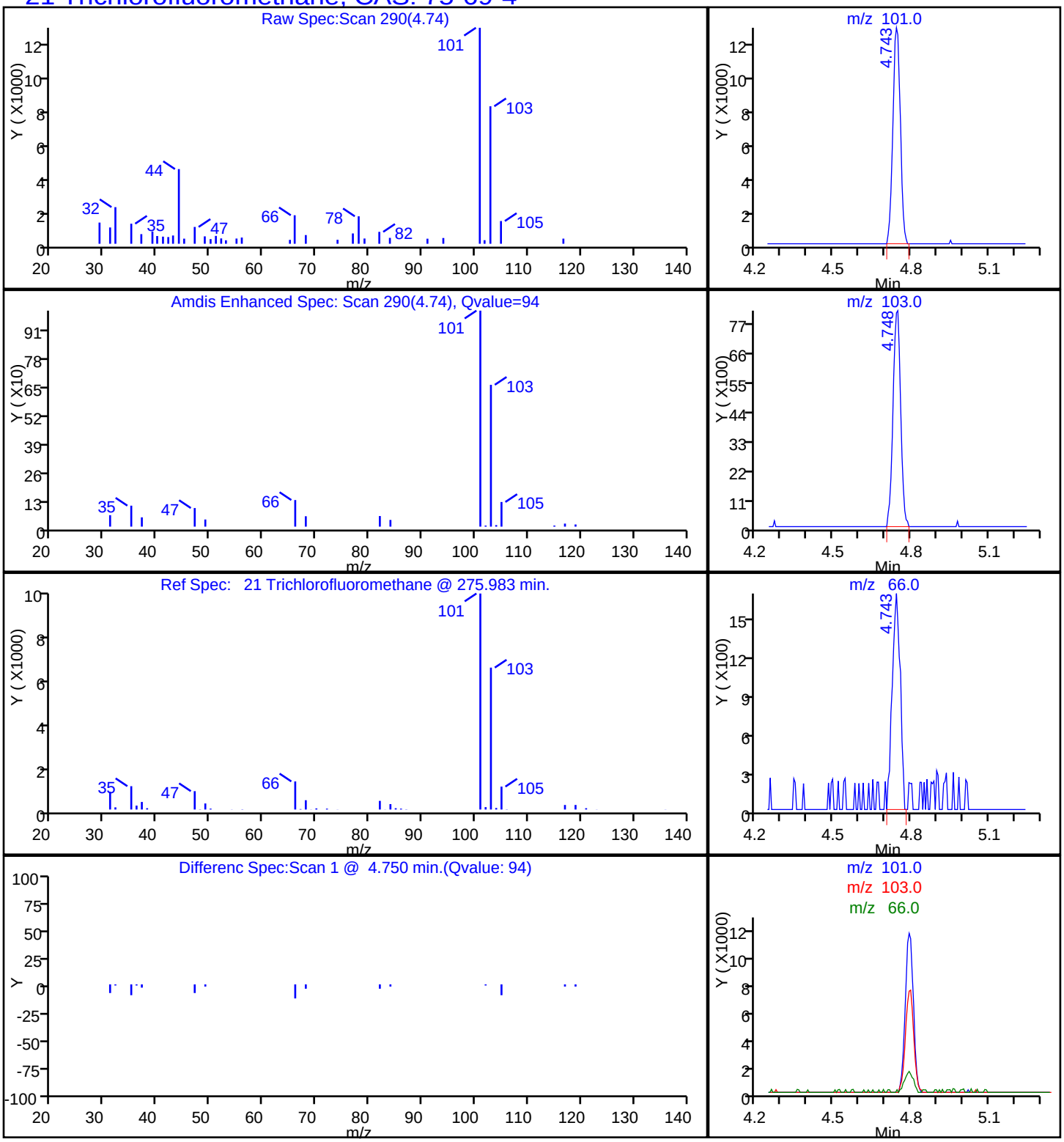
Report Date: 14-Mar-2014 07:27:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P114.D

Injection Date:	14-Mar-2014 01:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-8	Lab Sample ID:	140-1037-8		
Client ID:	PCV-IA3-B16				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.12	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.043	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.28	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.84		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.8		0.50	0.045
67-64-1	Acetone	58.08	19		5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.063	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.61		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.080	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*490*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	0.24		0.20	0.068
142-82-5	Heptane	100.21	0.13	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.52		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.54		0.20	0.061
115-07-1	Propene	42.08	1.7	cn	0.50	0.077
100-42-5	Styrene	104.15	1.8		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.098	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.46		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.60	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.83	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	12		2.0	0.18
67-64-1	Acetone	58.08	45		12	3.3
71-43-2	Benzene	78.11	0.73		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.27	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*920*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.53	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.55	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.2		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	5.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	2.4		0.87	0.26
115-07-1	Propene	42.08	2.9	cn	0.86	0.13
100-42-5	Styrene	104.15	7.8		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.67	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 Lab Sample ID: 140-1037-9

Matrix: Air Lab File ID: EC13P115.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 02:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D
Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9
Client ID: PCV-IA2-B18
Sample Type: Client
Inject. Date: 14-Mar-2014 02:31:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-9
Misc. Info.: E031314,TO155,,140-0000518-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:28:56 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:28:56

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	207508	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1003266	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	896081	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	778123	3.97	
	7 Propene	41	3.319	3.309	0.010	52	34867	0.6680	
	8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	44703	0.1947	
	9 Chloromethane	52	3.530	3.530	0.0	86	4456	0.2432	
	17 Ethanol	31	4.338	4.312	0.026	96	4056897	195.5	E
	19 2-Methylbutane	43	4.533	4.538	-0.005	87	24455	0.3365	
	21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	24177	0.1050	
	23 Acetone	58	4.867	4.878	-0.011	99	235878	7.50	
	24 Isopropyl alcohol	45	4.996	4.970	0.026	98	82266	1.02	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	58	4052	0.0284	
	31 Methylene Chloride	84	5.789	5.789	0.0	77	12376	0.2087	
	39 2-Butanone (MEK)	72	7.585	7.585	0.0	91	3835	0.1129	
	40 Hexane	56	7.579	7.585	-0.006	59	3468	0.0628	
	43 Chloroform	83	8.340	8.351	-0.011	16	4504	0.0253	
	49 Cyclohexane	69	9.984	9.990	-0.006	52	1204	0.0318	
	48 Benzene	78	9.990	9.995	-0.005	91	18421	0.0912	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	78	5154	0.0266	
	53 Isooctane	57	10.777	10.788	-0.011	55	5313	0.0170	
	54 n-Heptane	71	11.176	11.182	-0.006	63	3951	0.0517	
	62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	135375	1.14	
	65 Toluene	91	13.398	13.403	-0.005	91	44551	0.1856	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	79	4021	0.0393	
	76 Ethylbenzene	91	15.722	15.722	0.0	96	29688	0.0965	
	78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	121364	0.5016	
	80 Styrene	104	16.353	16.353	0.0	97	122990	0.7345	
	82 o-Xylene	91	16.407	16.412	-0.005	93	56752	0.2170	
	93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	80	13383	0.0487	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

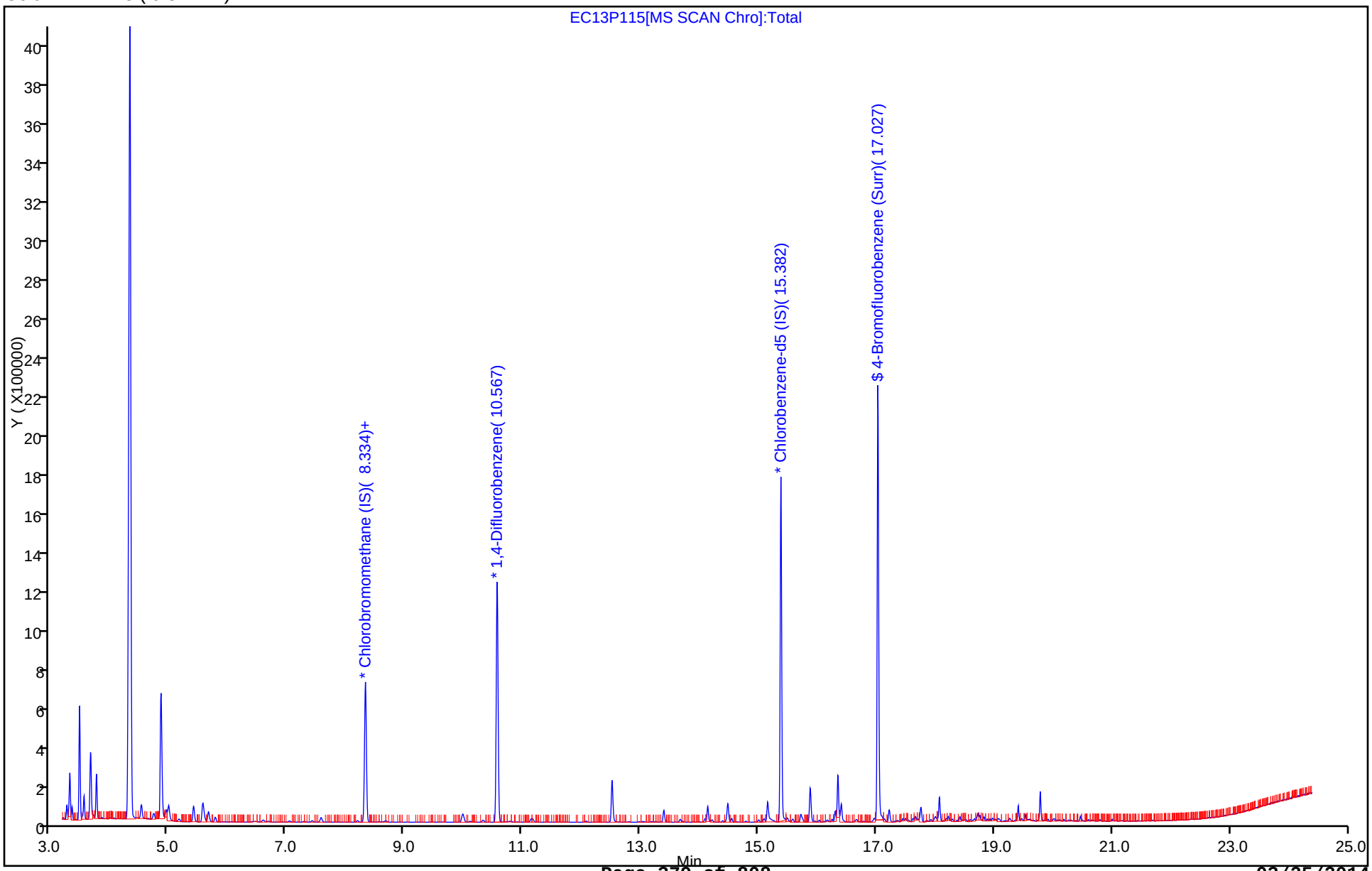
Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9	Worklist Smp#:	21
Client ID:	PCV-IA2-B18				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

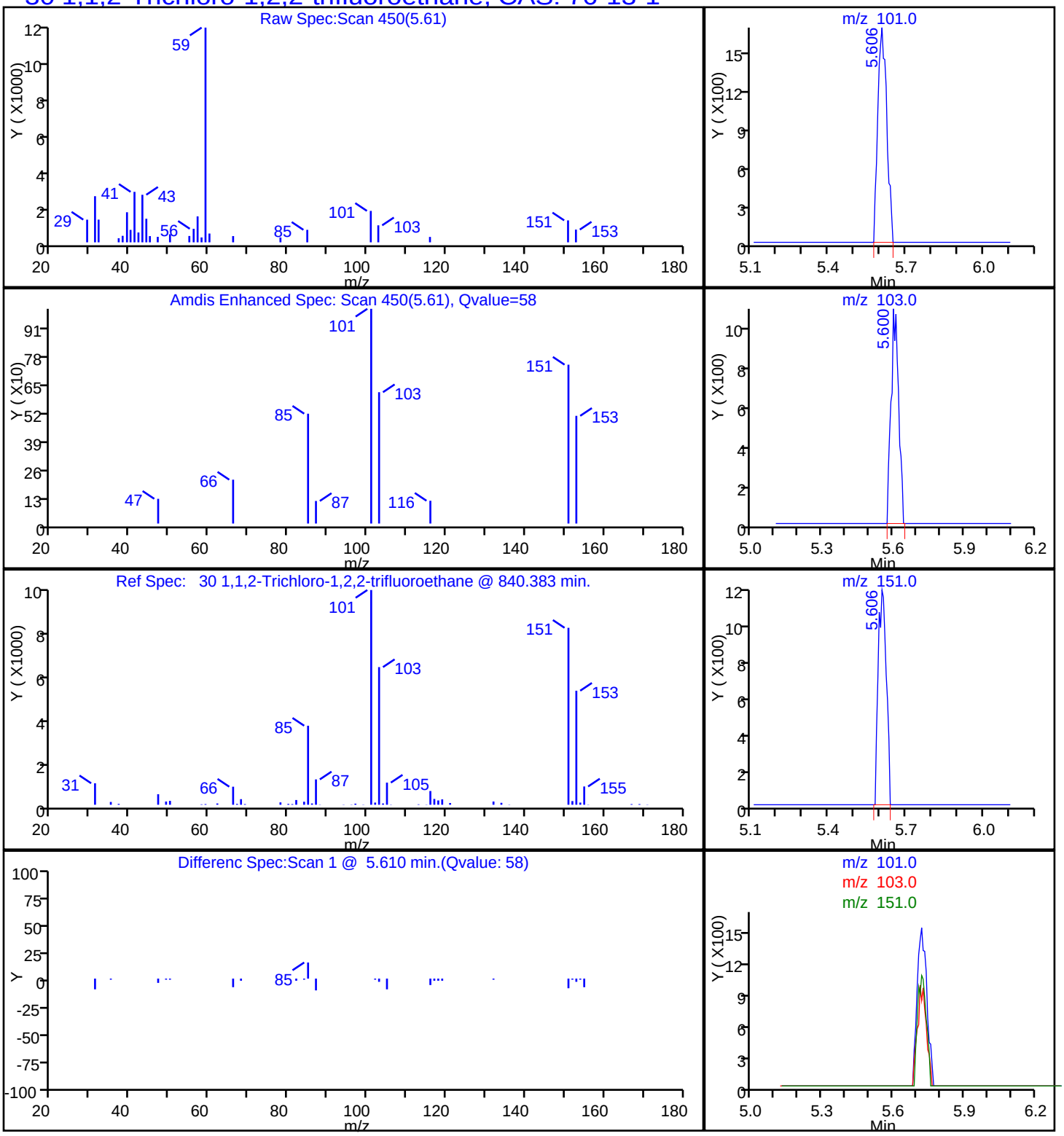
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D				
Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

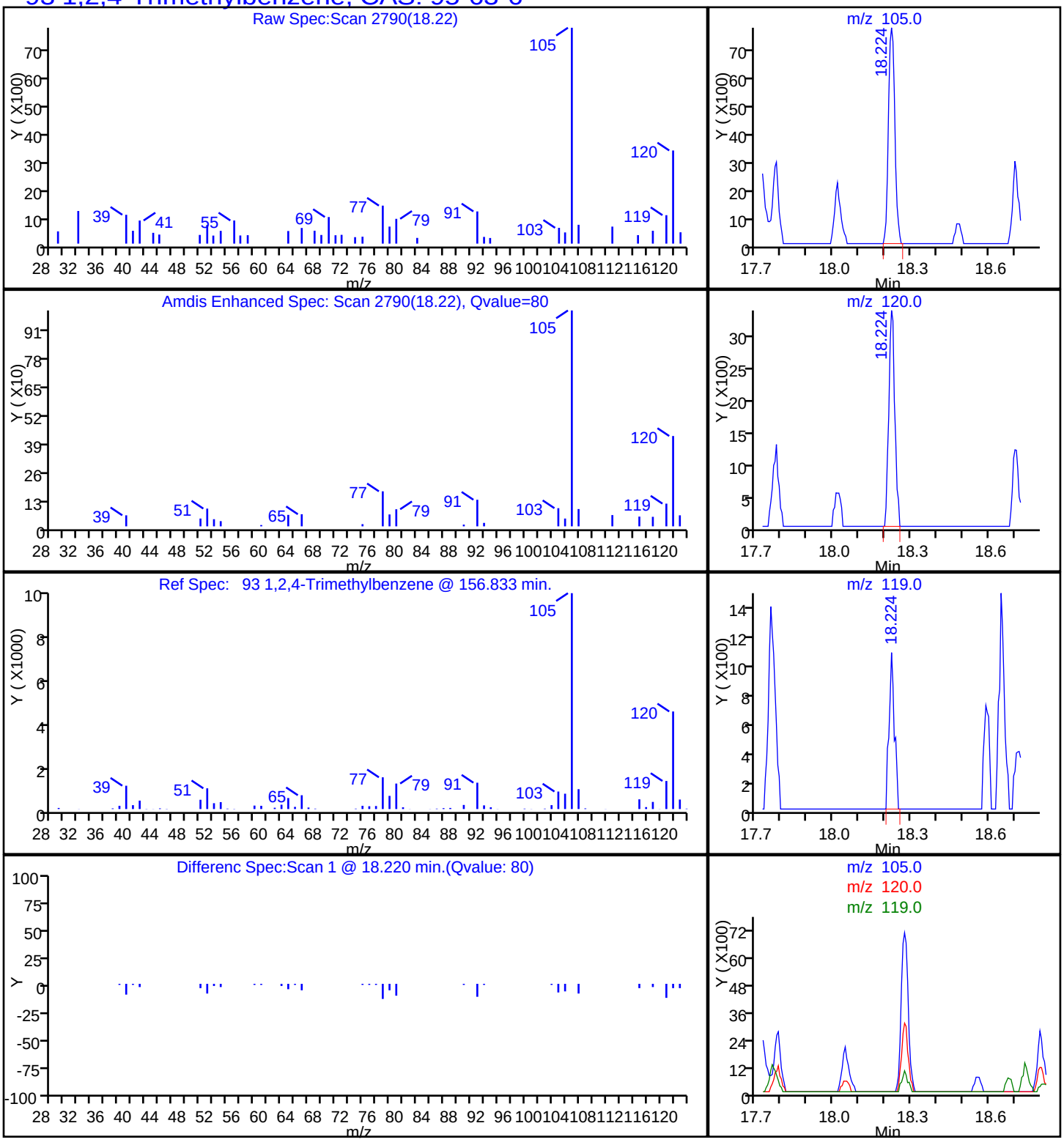
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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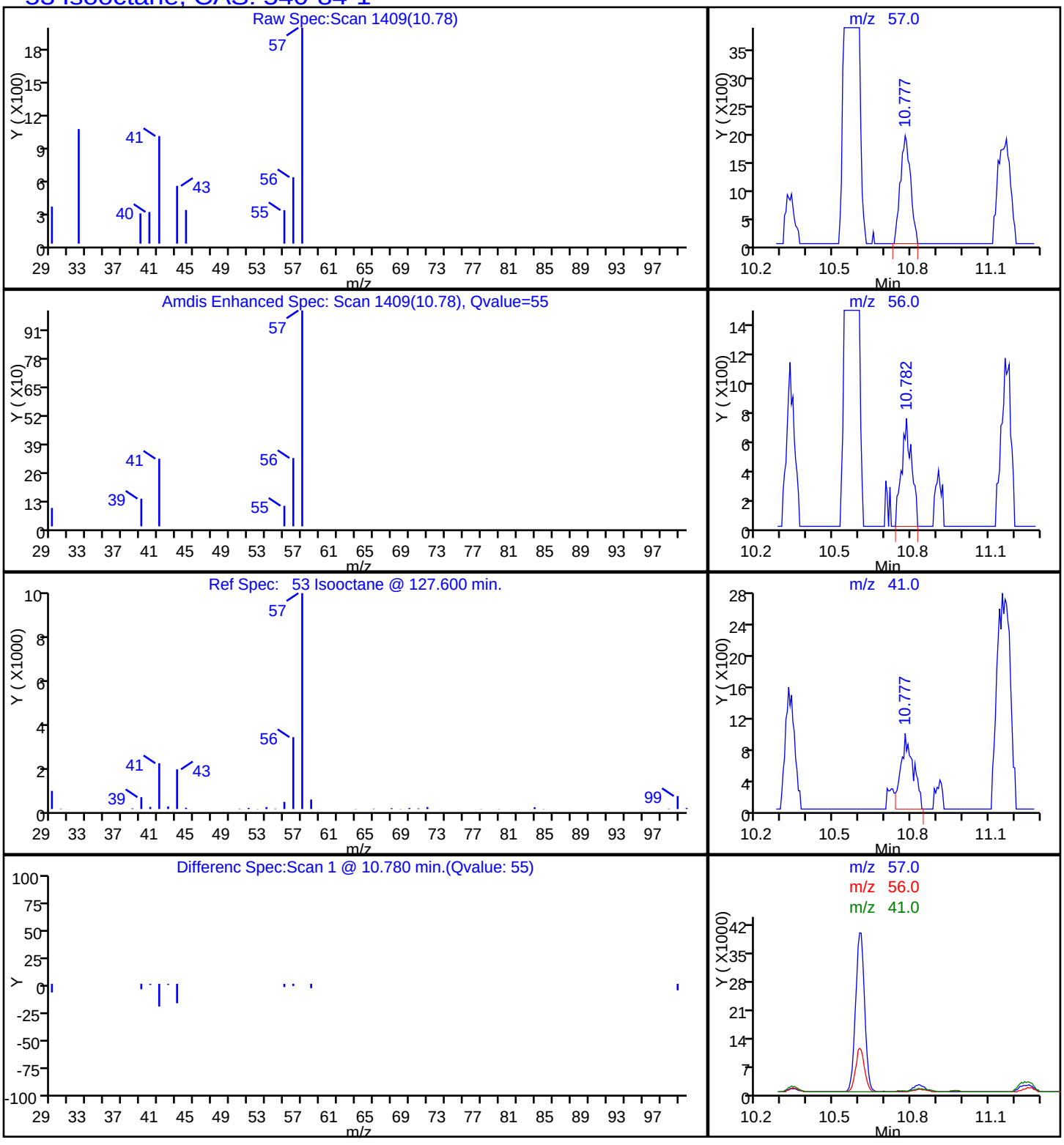
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



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TestAmerica Knoxville

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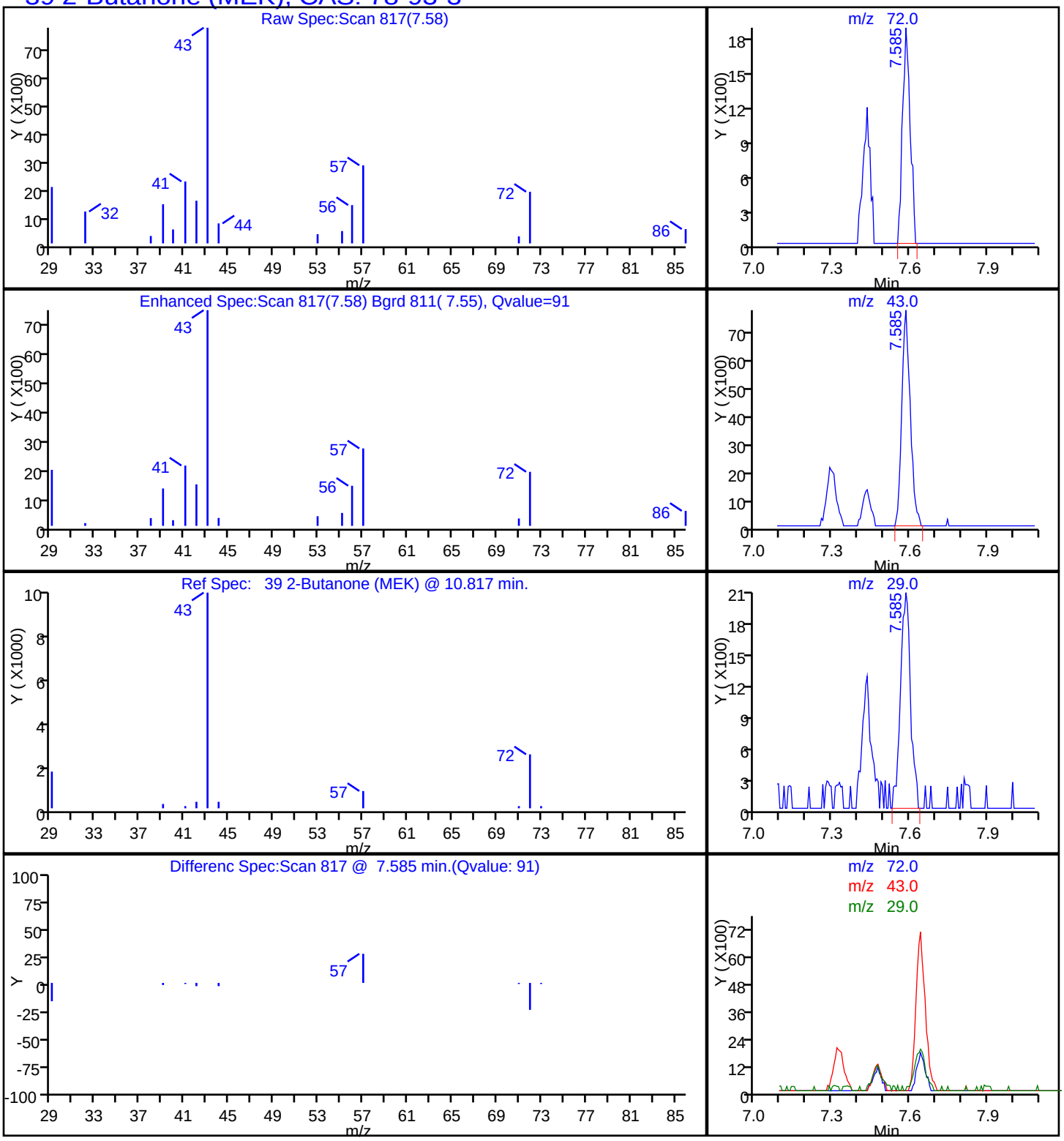
Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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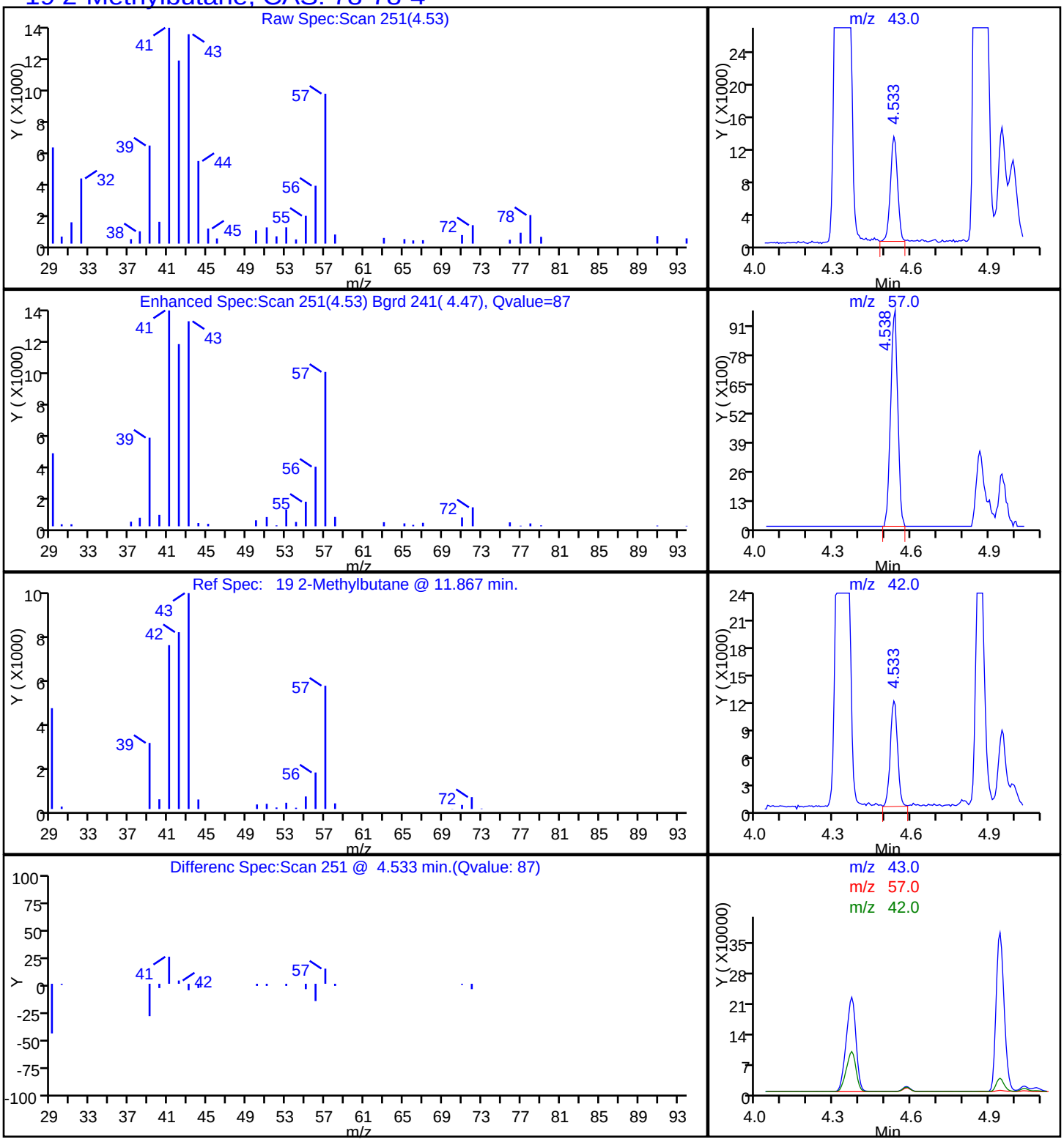
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

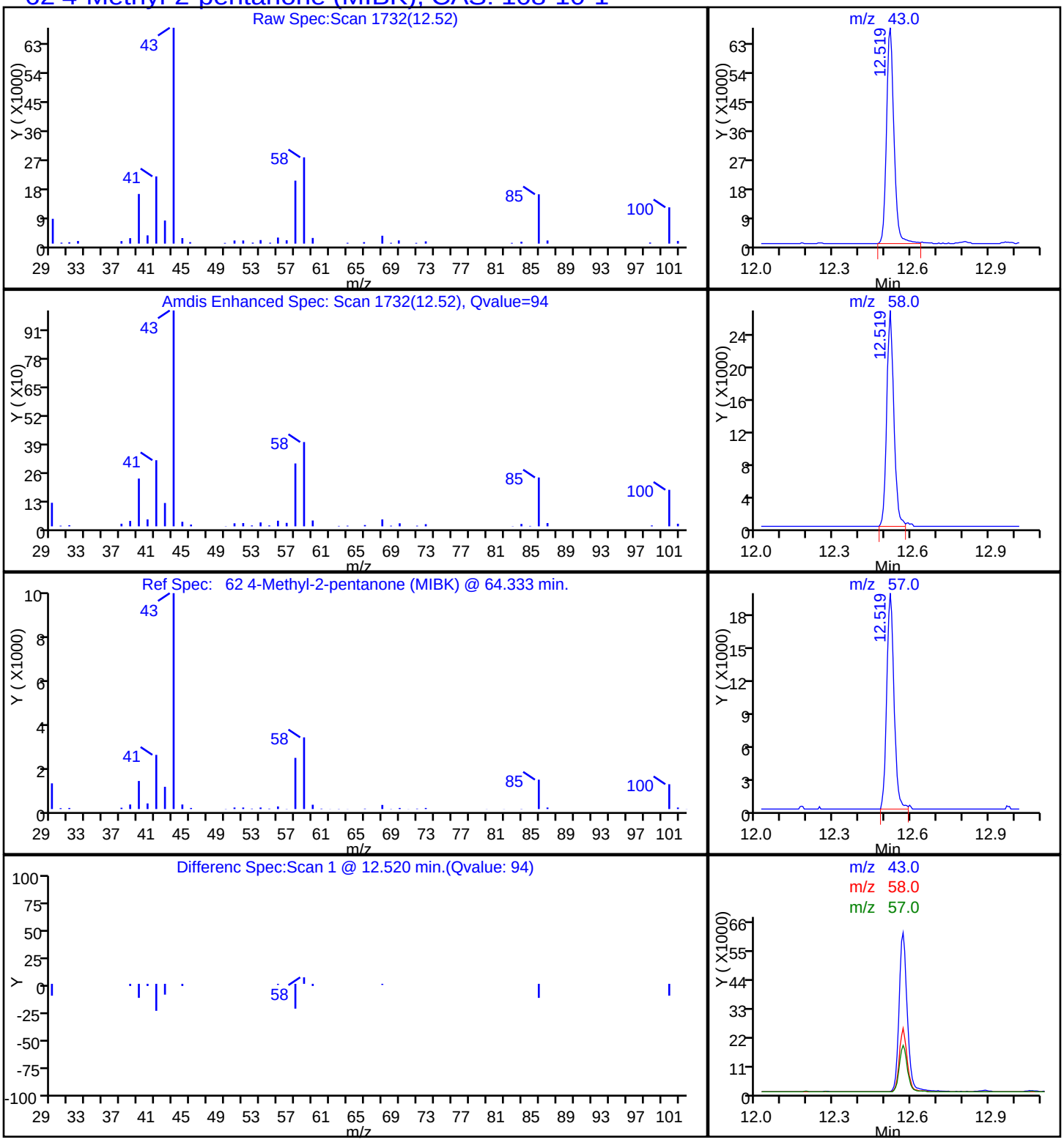
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

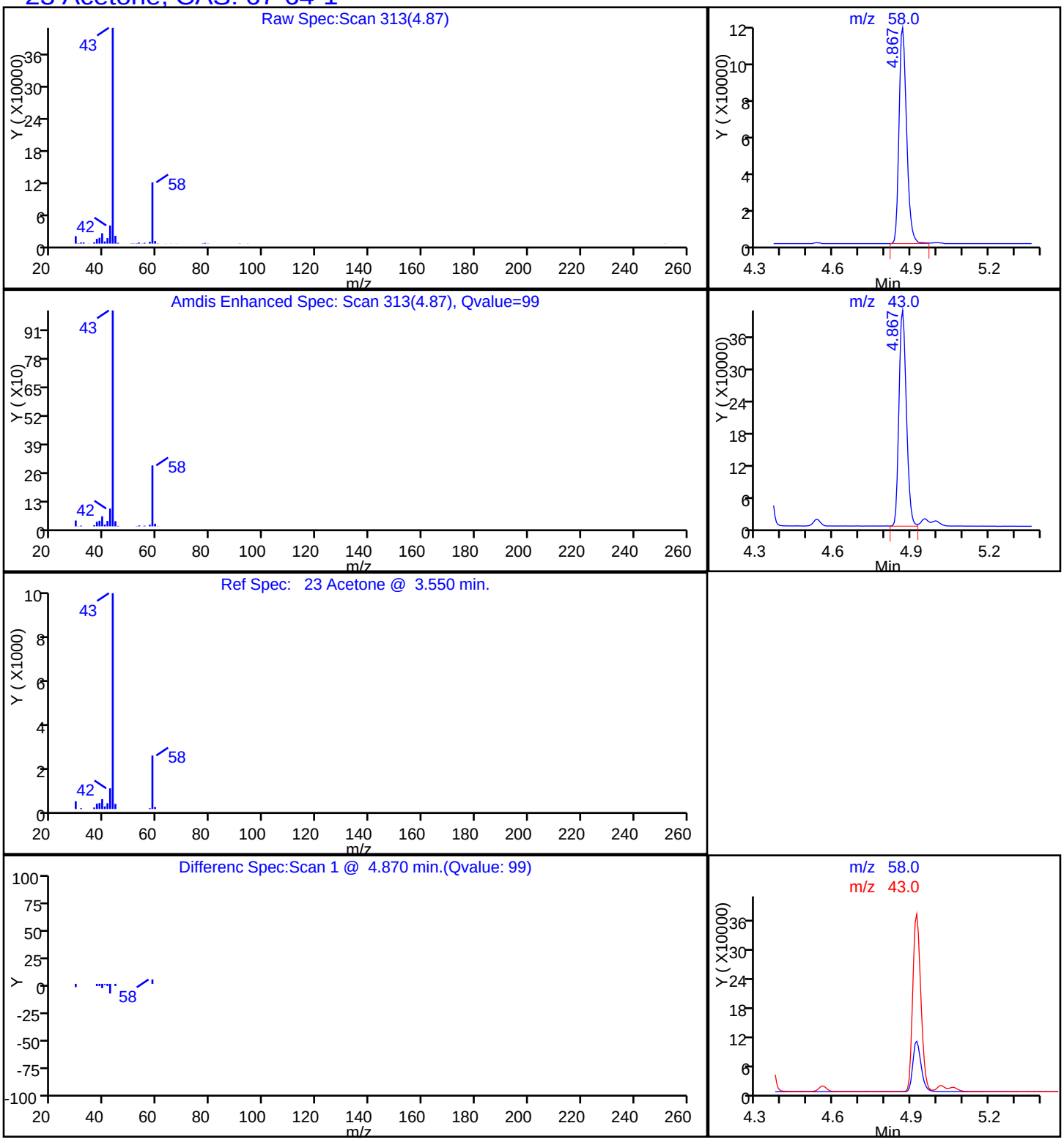
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



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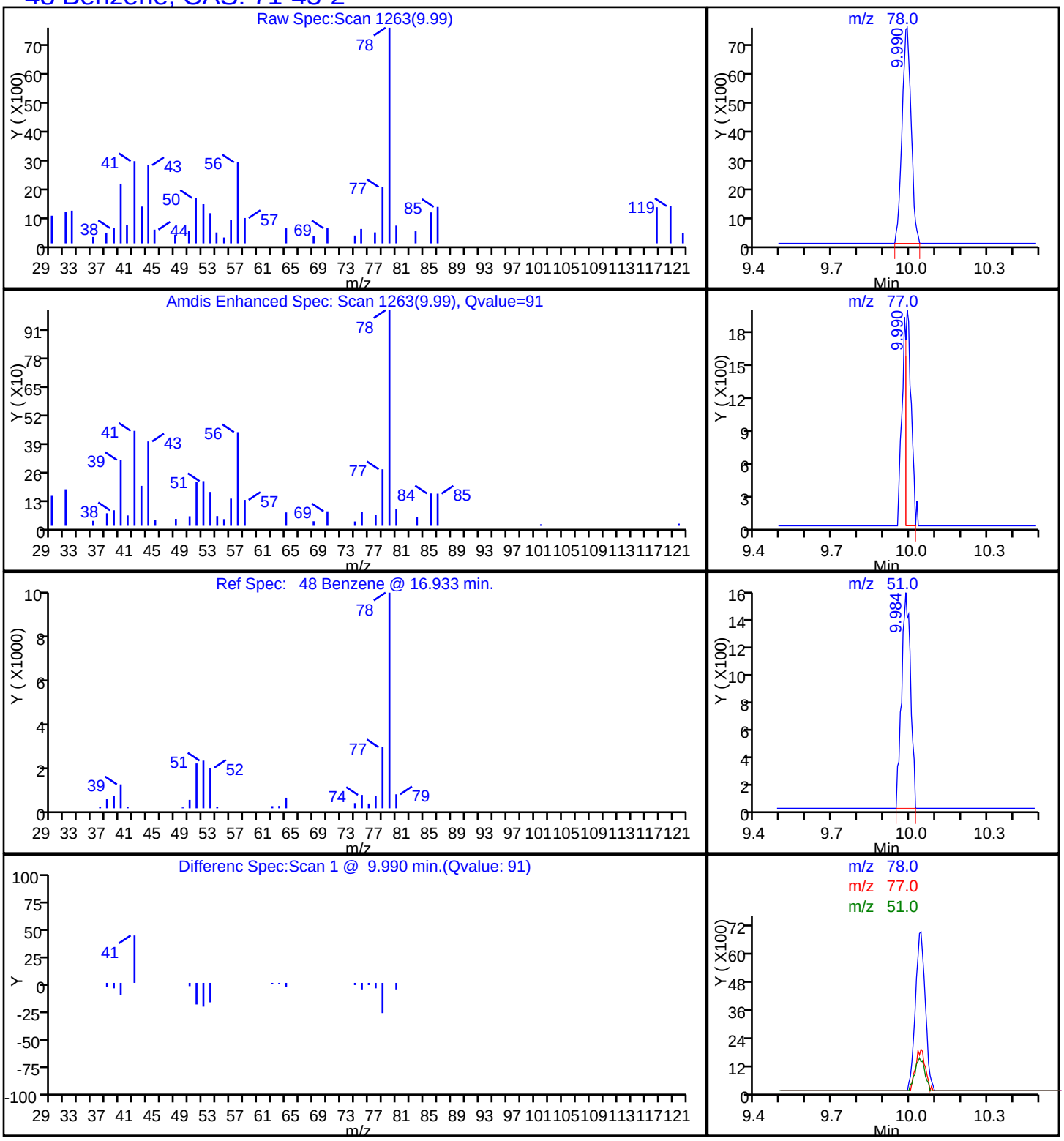
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



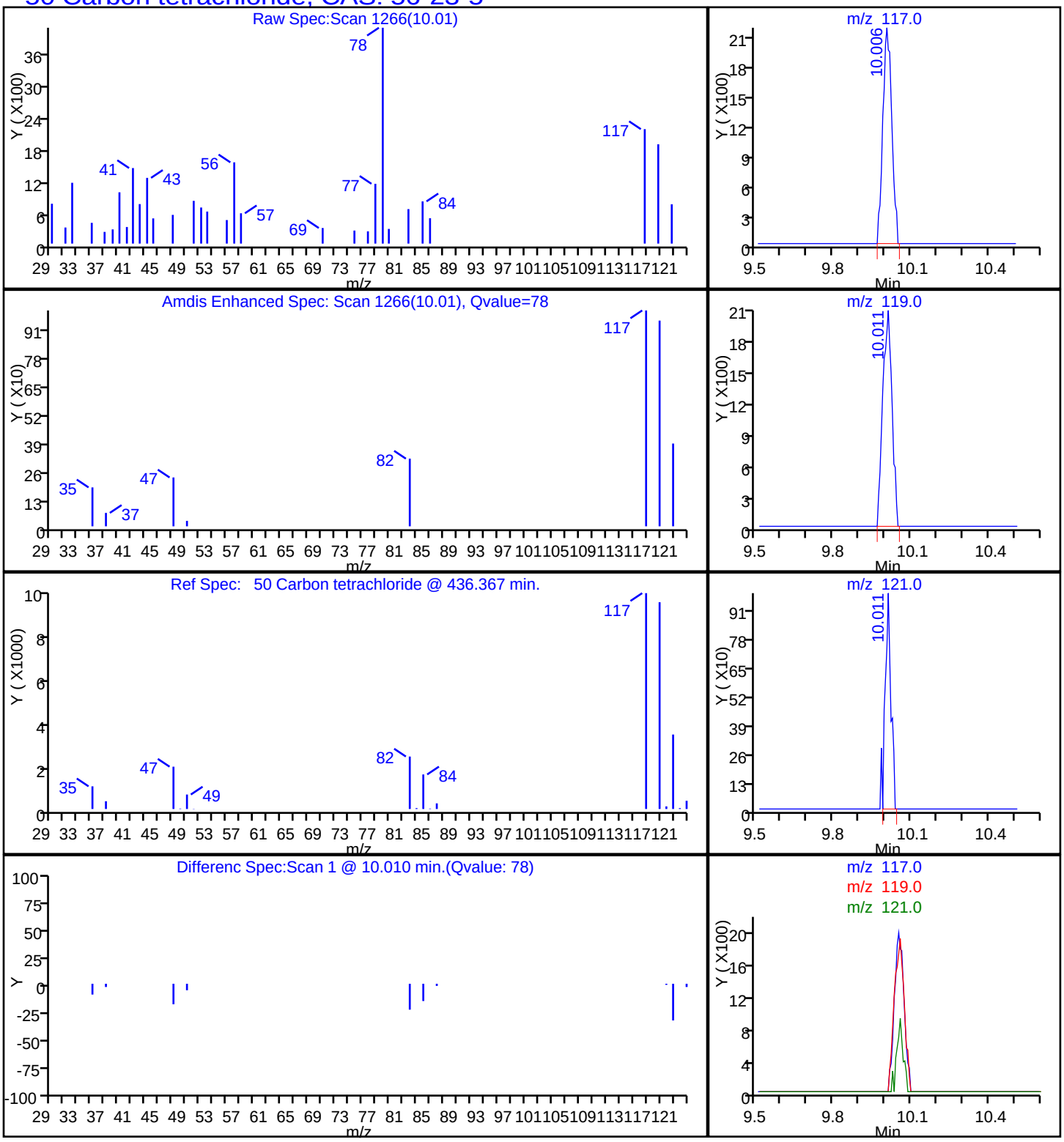
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

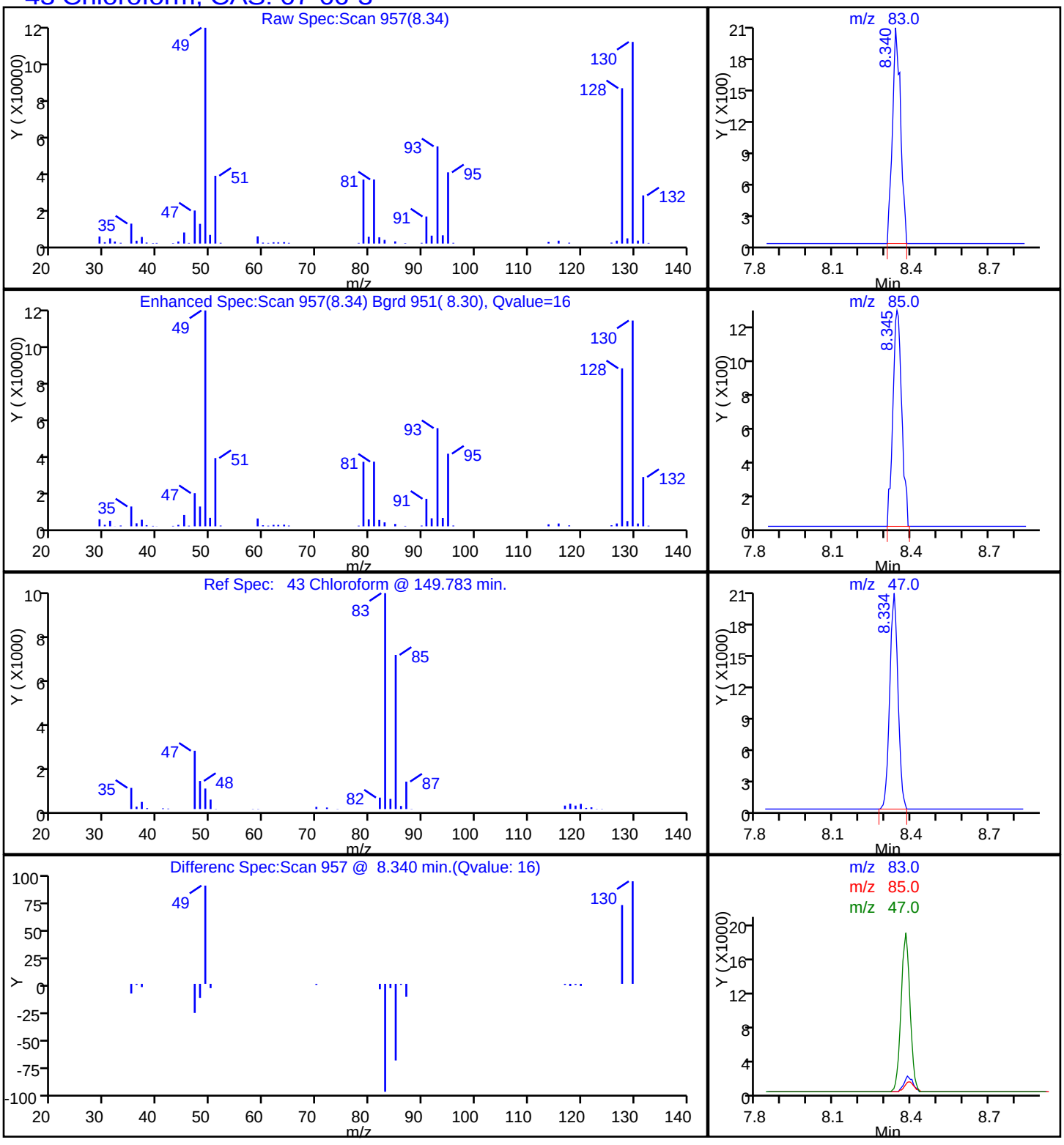
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



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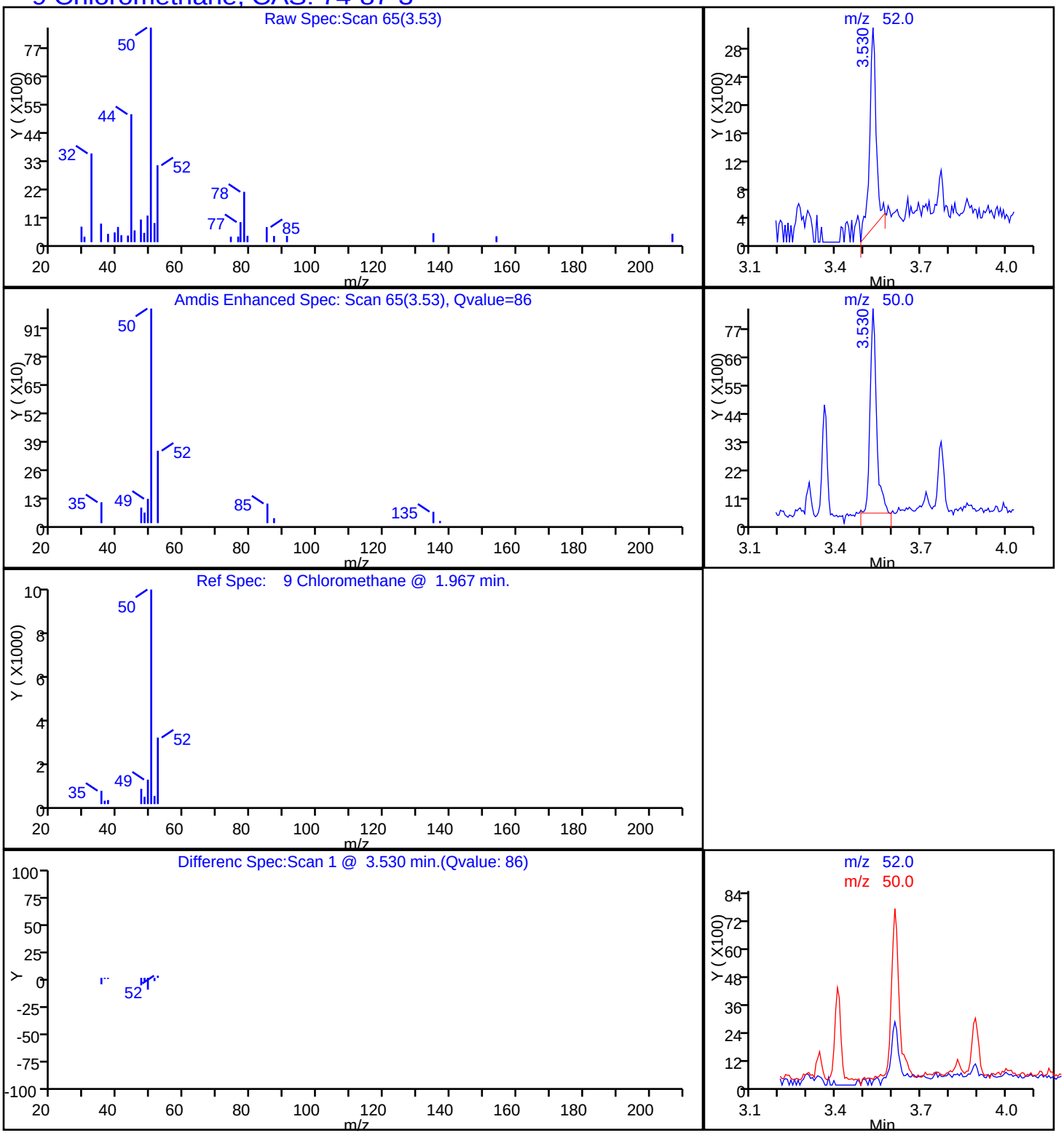
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



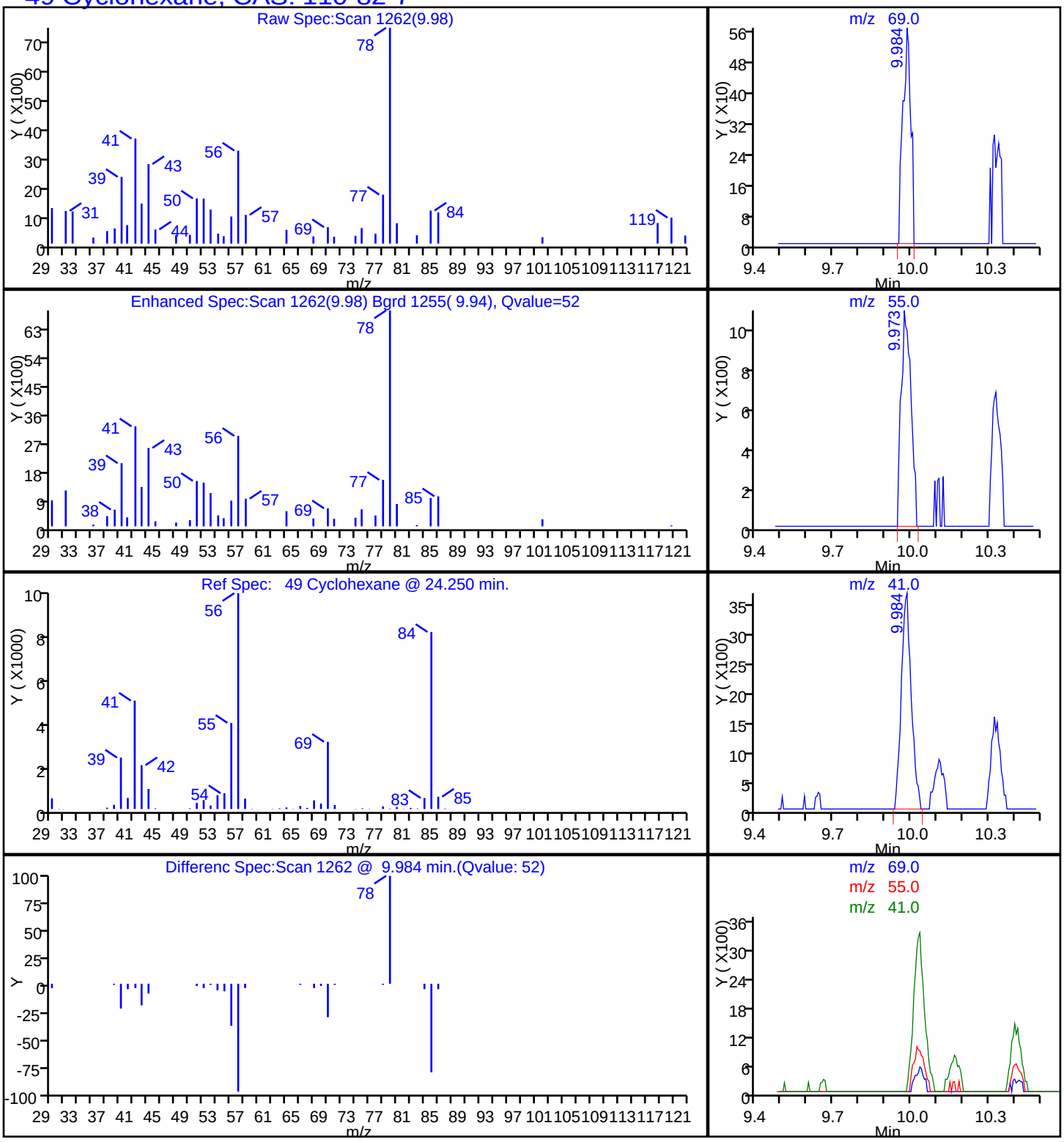
Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

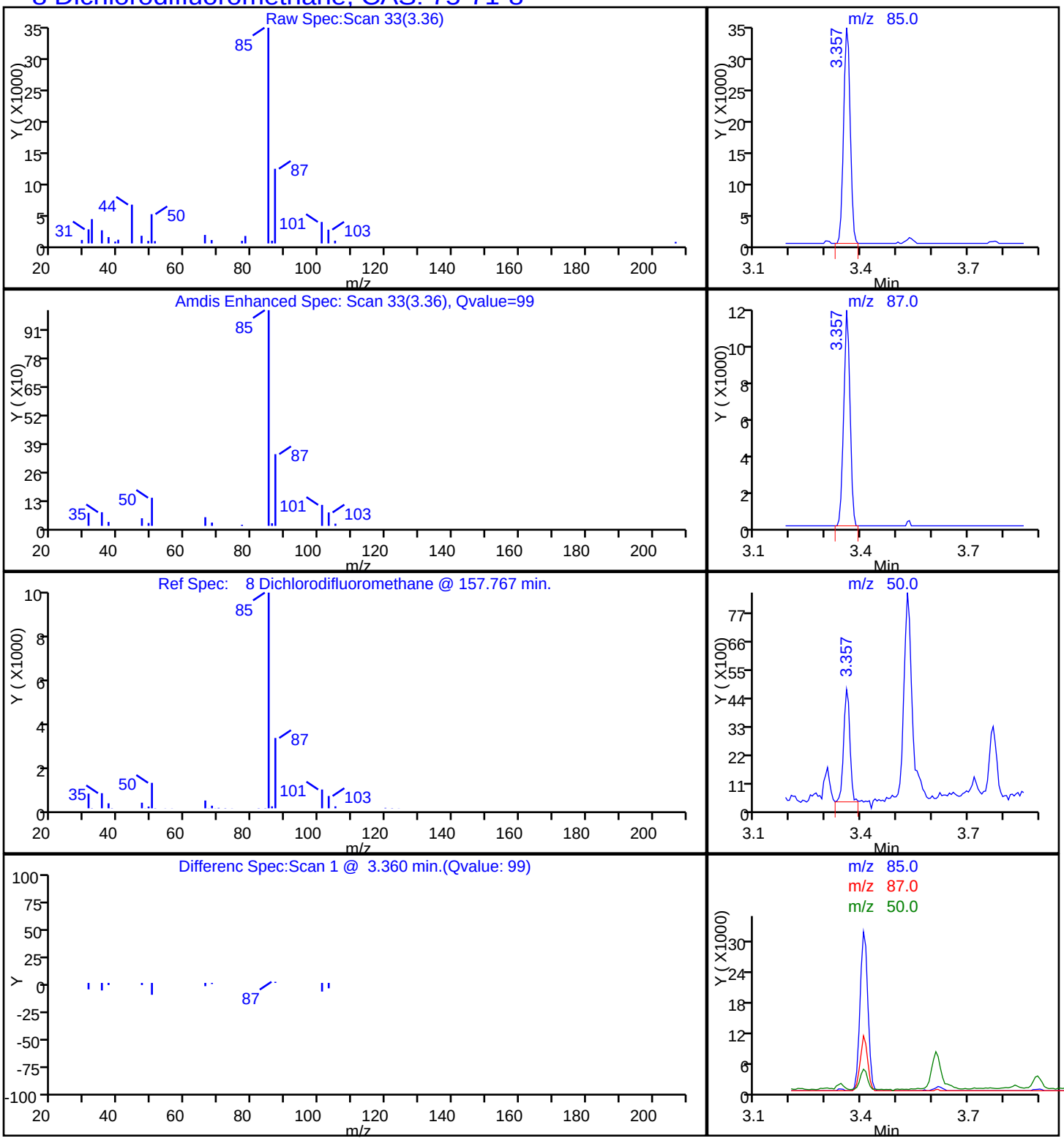
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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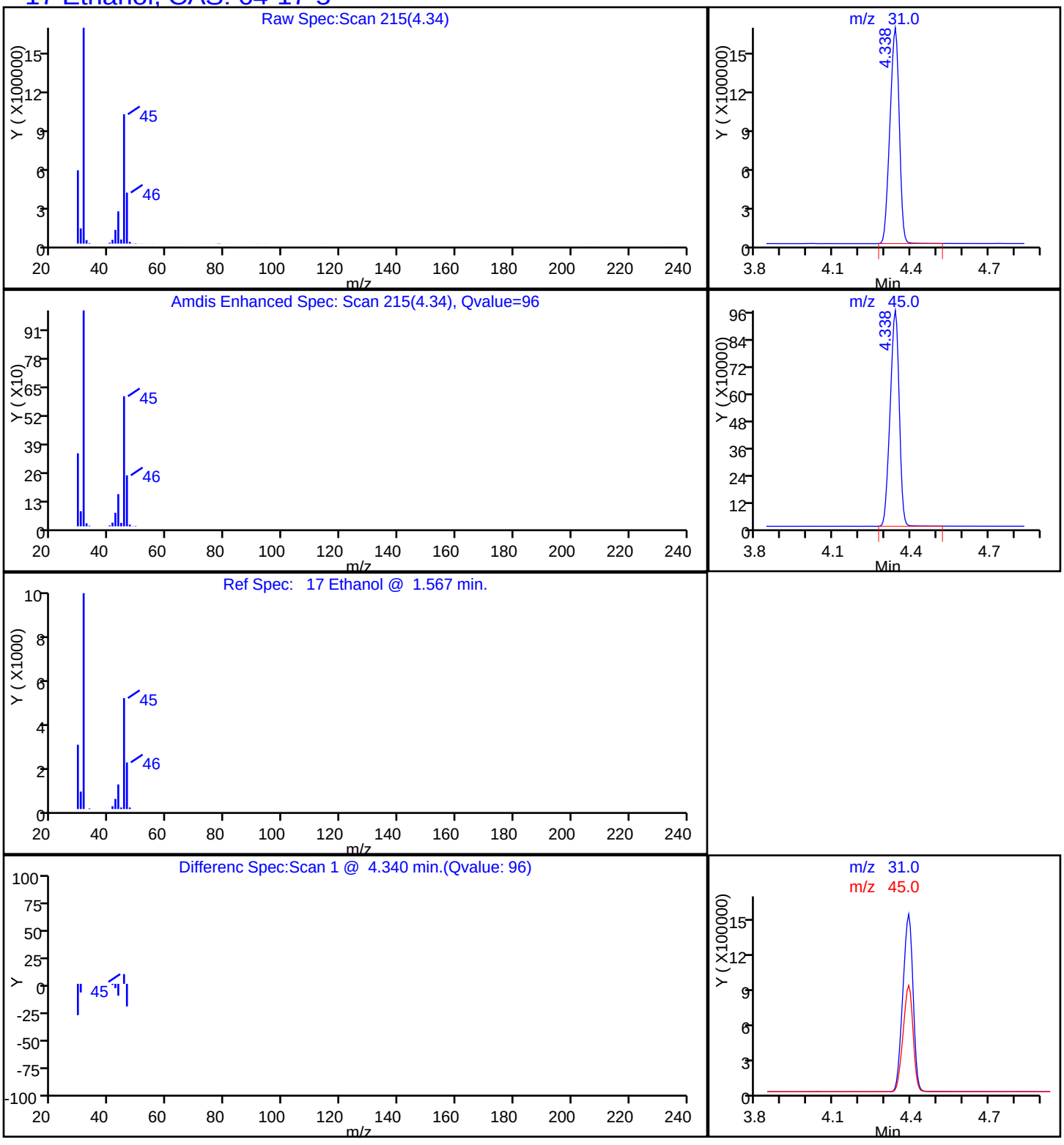
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

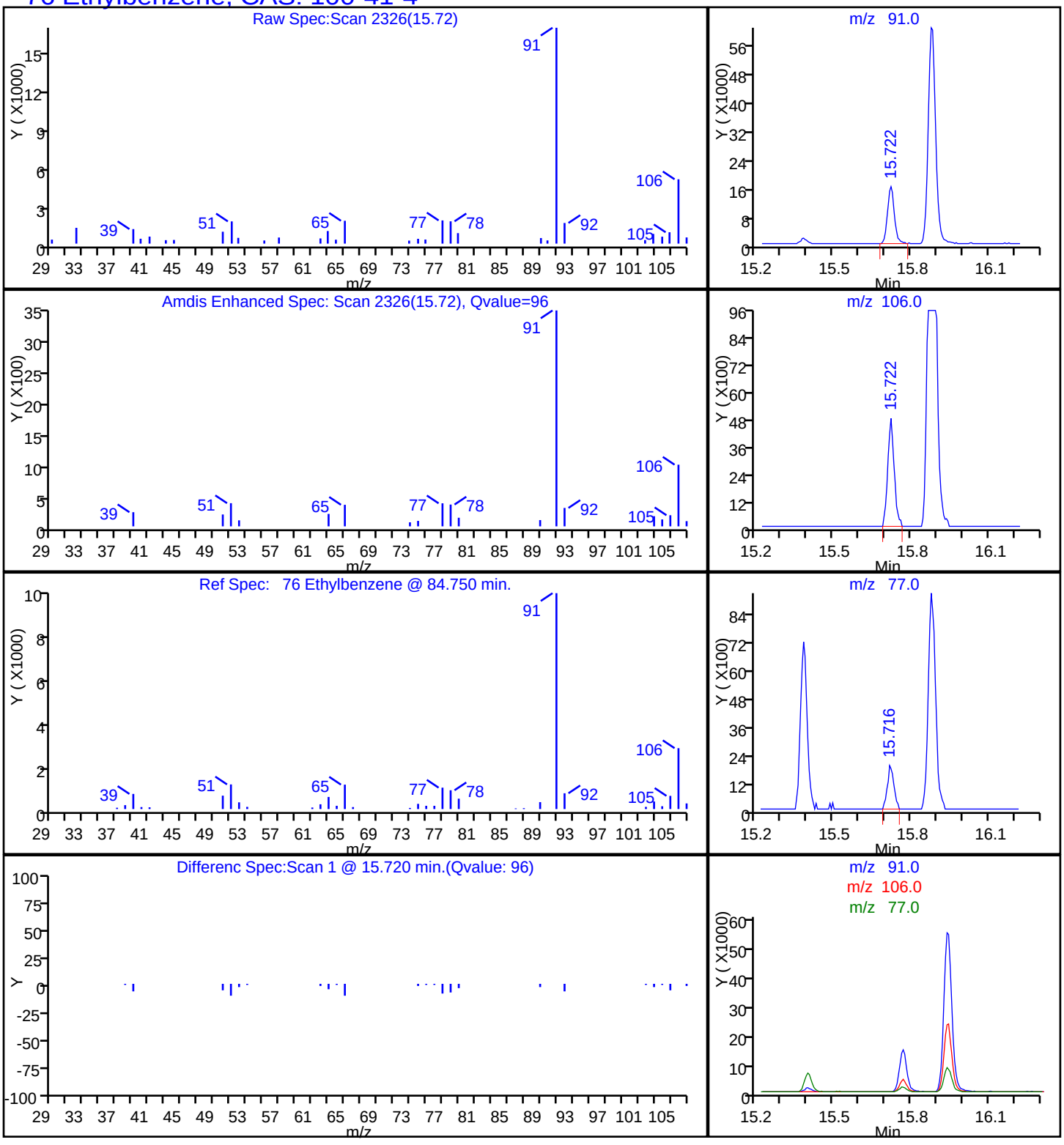
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



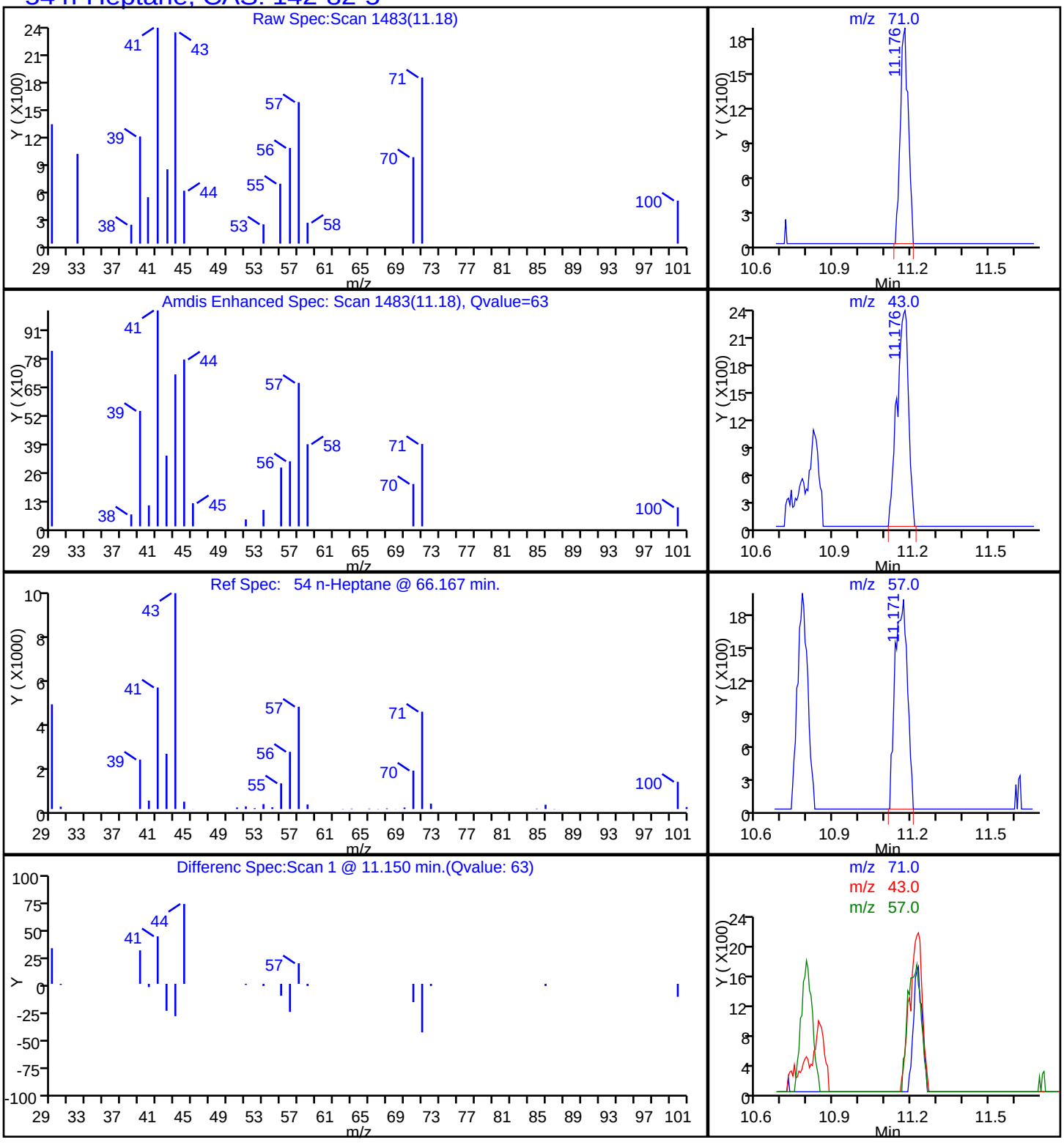
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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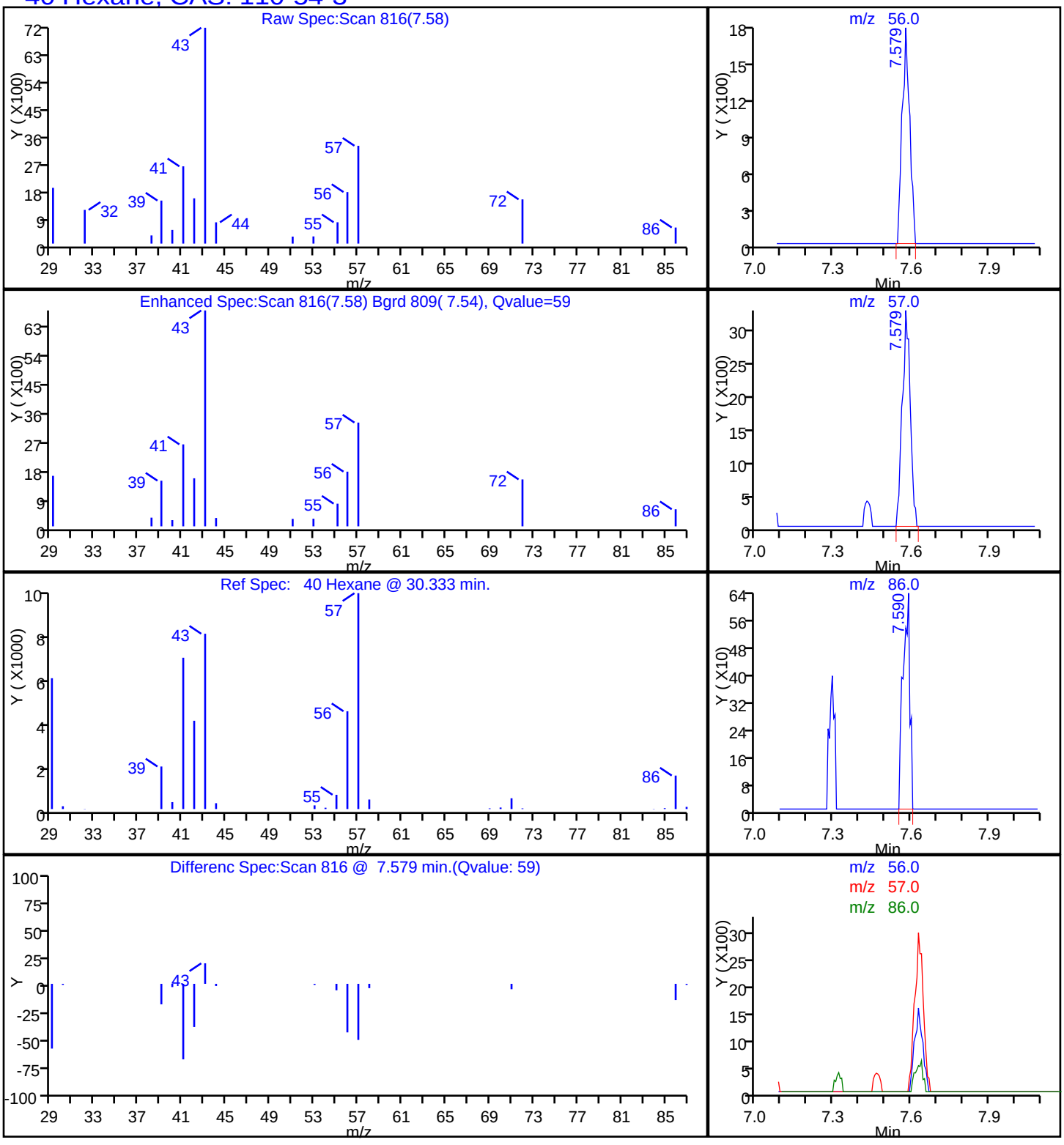
Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

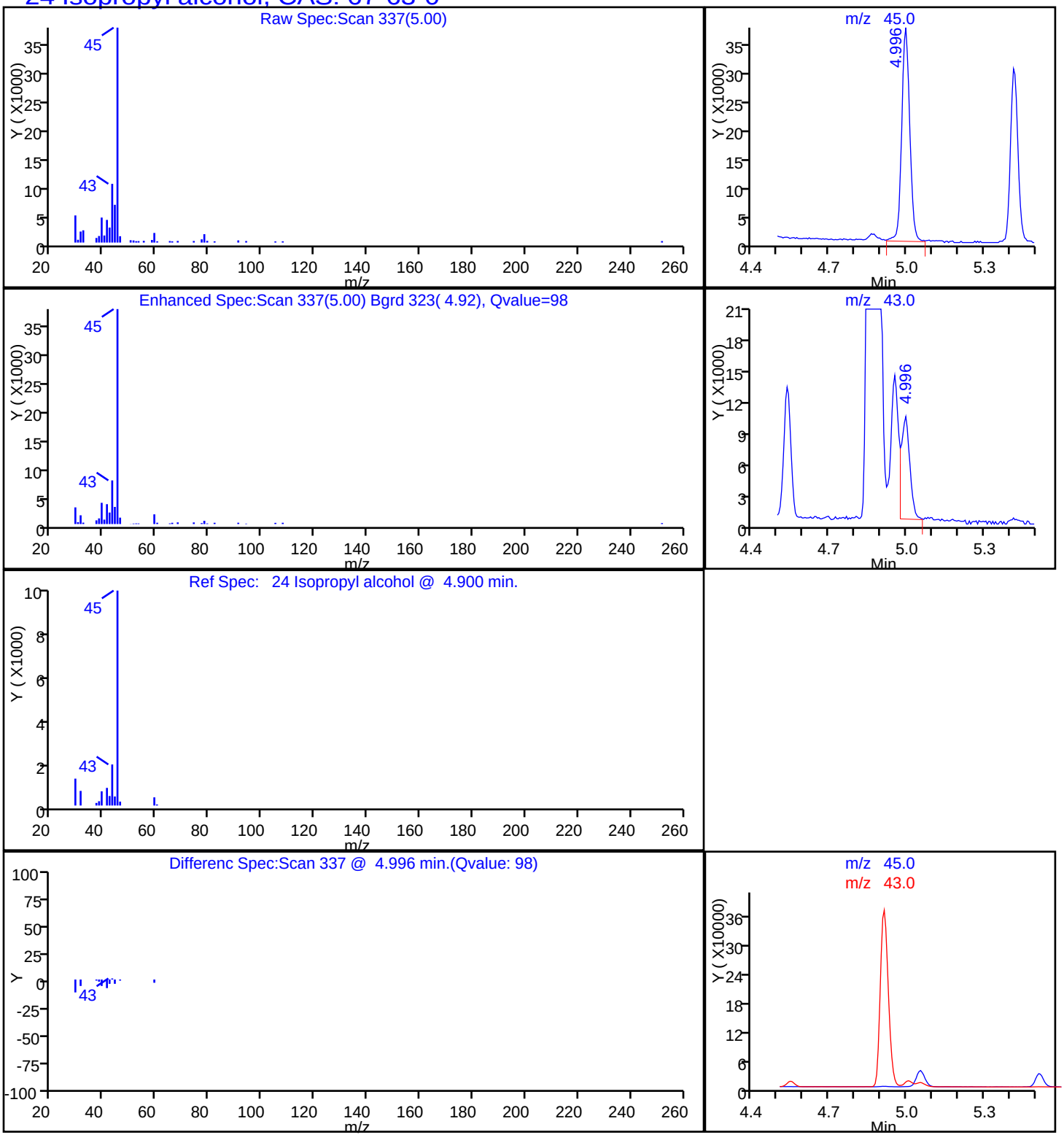
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D		
Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



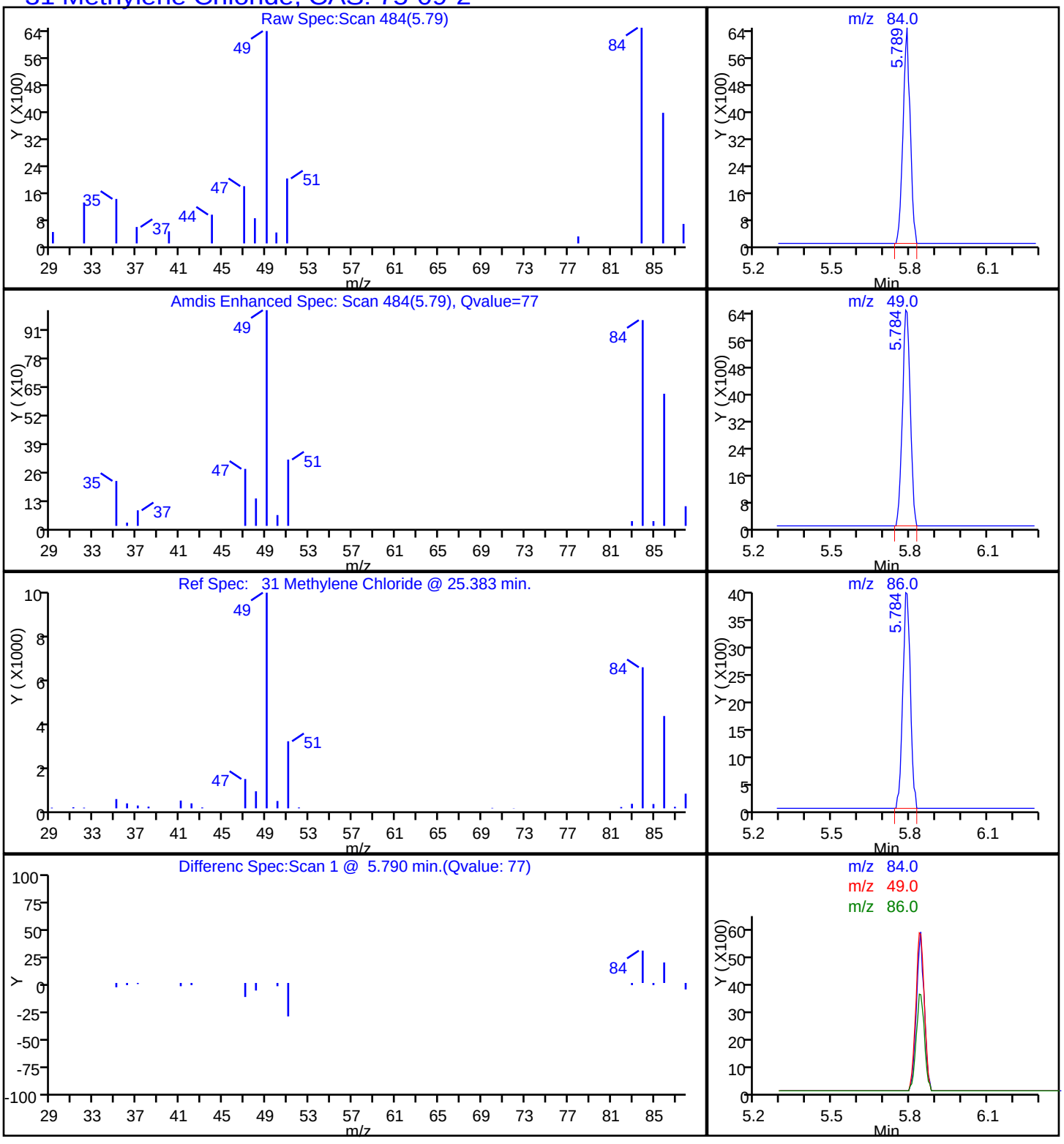
Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



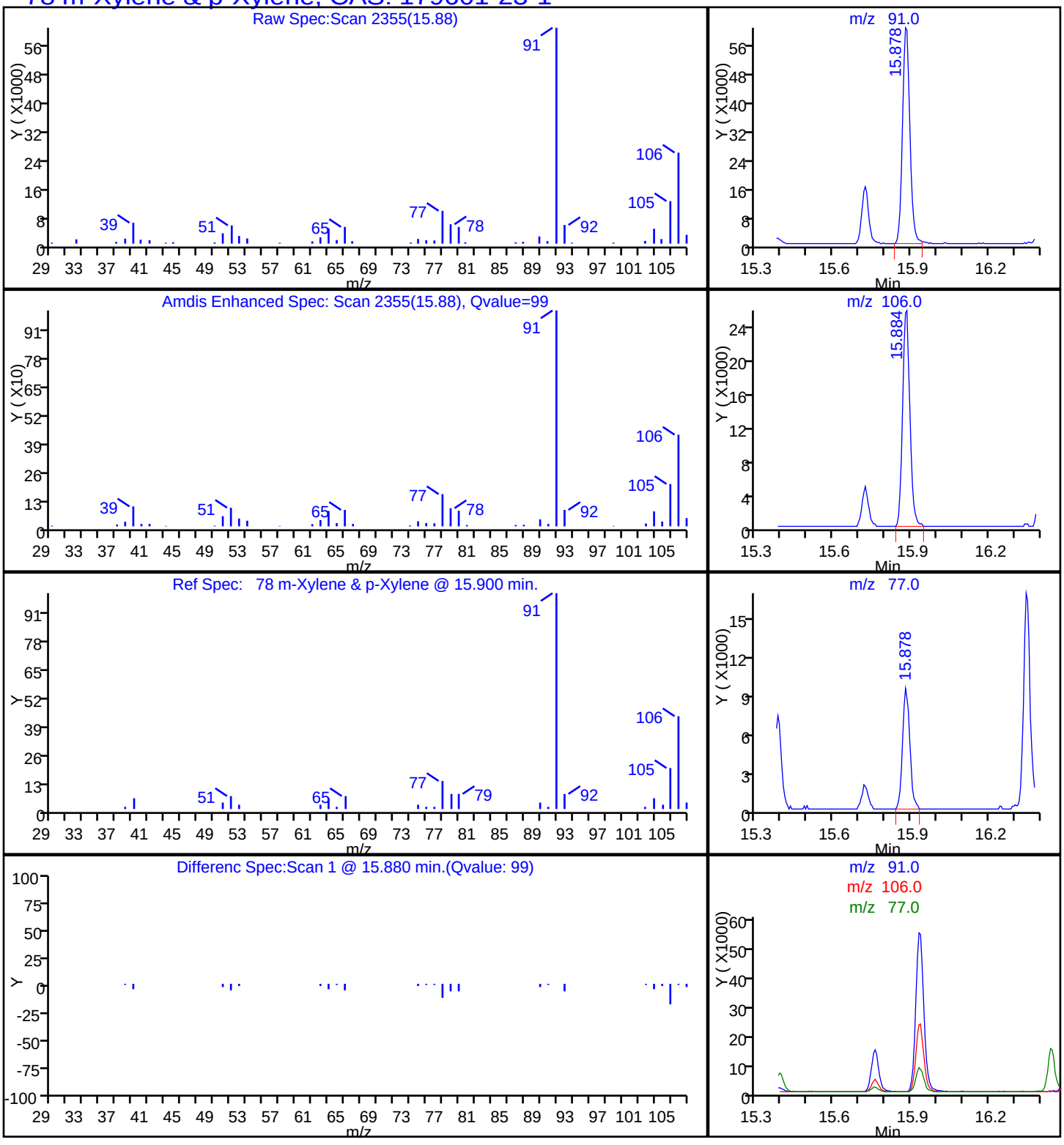
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



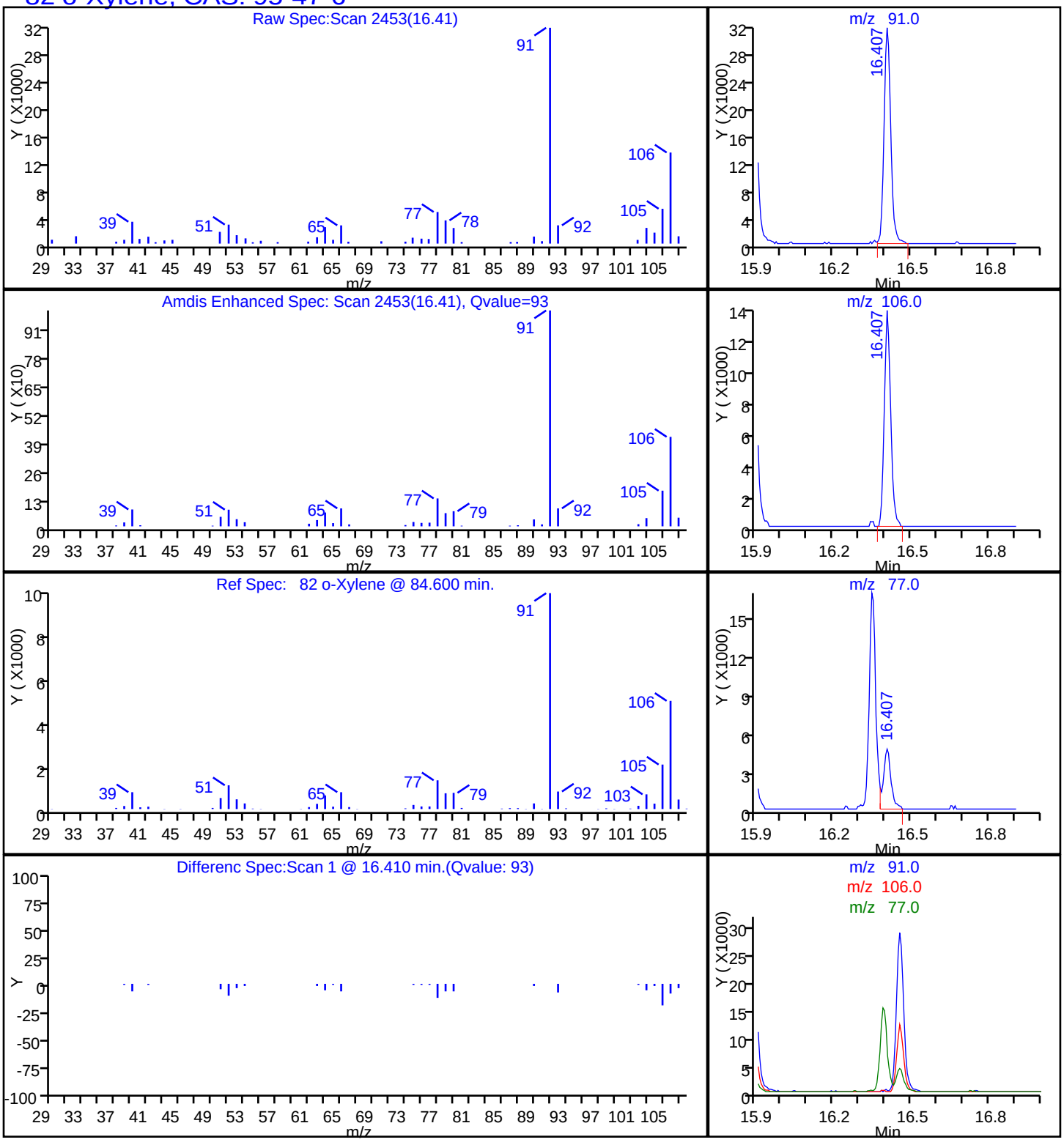
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date: 14-Mar-2014 02:31:30 Instrument ID: ME

Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9

Client ID: PCV-IA2-B18

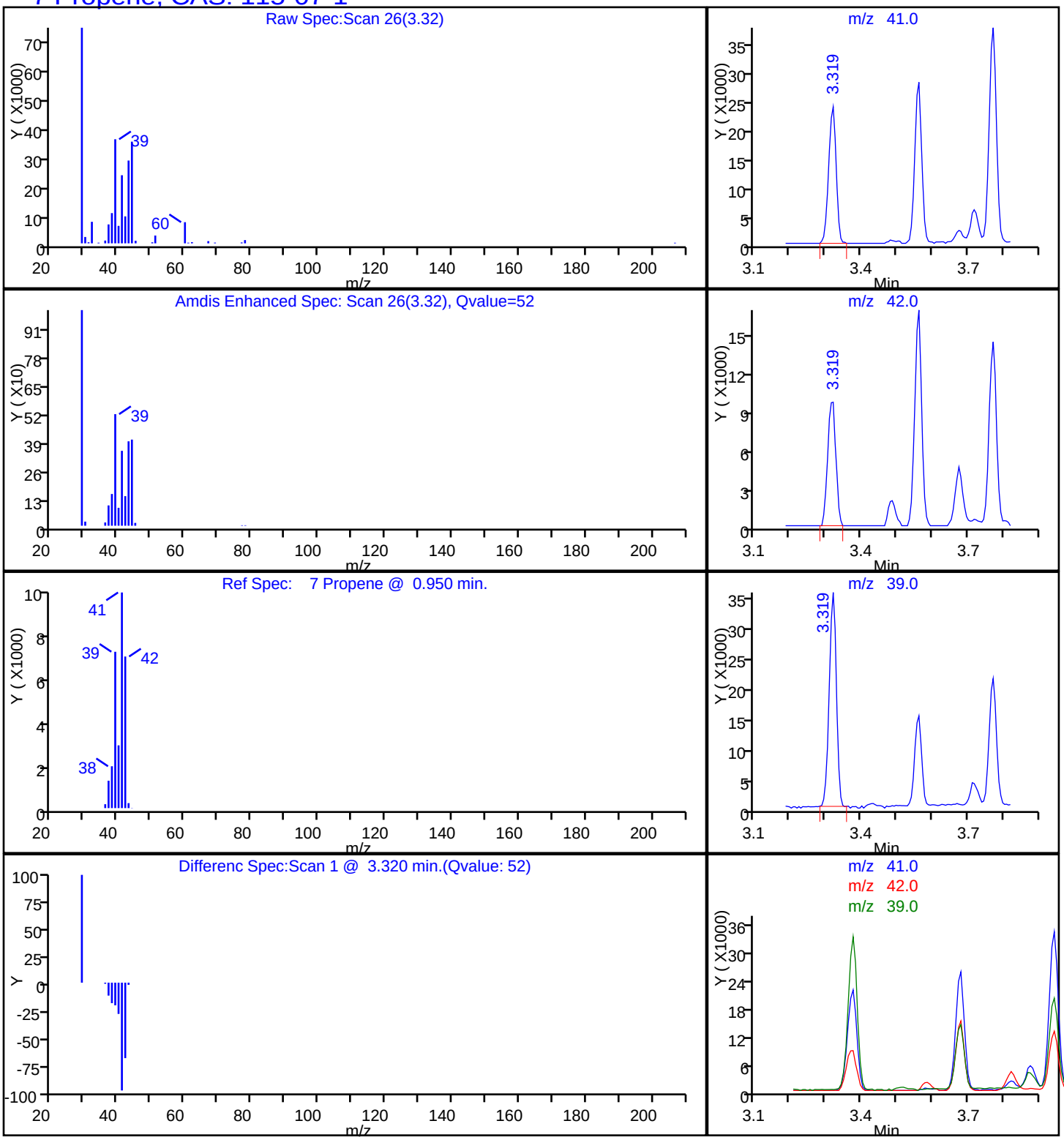
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

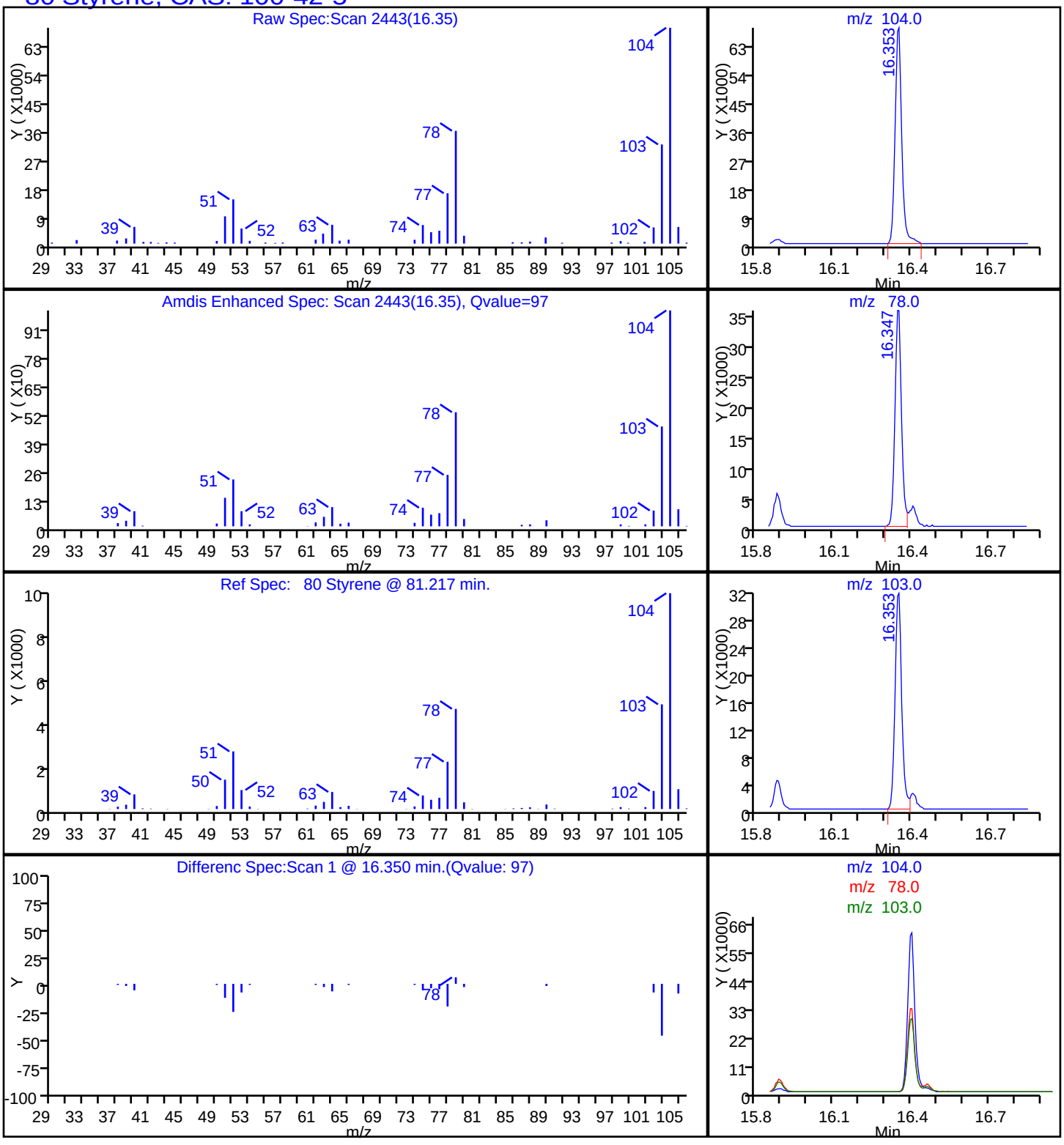
7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D		
Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



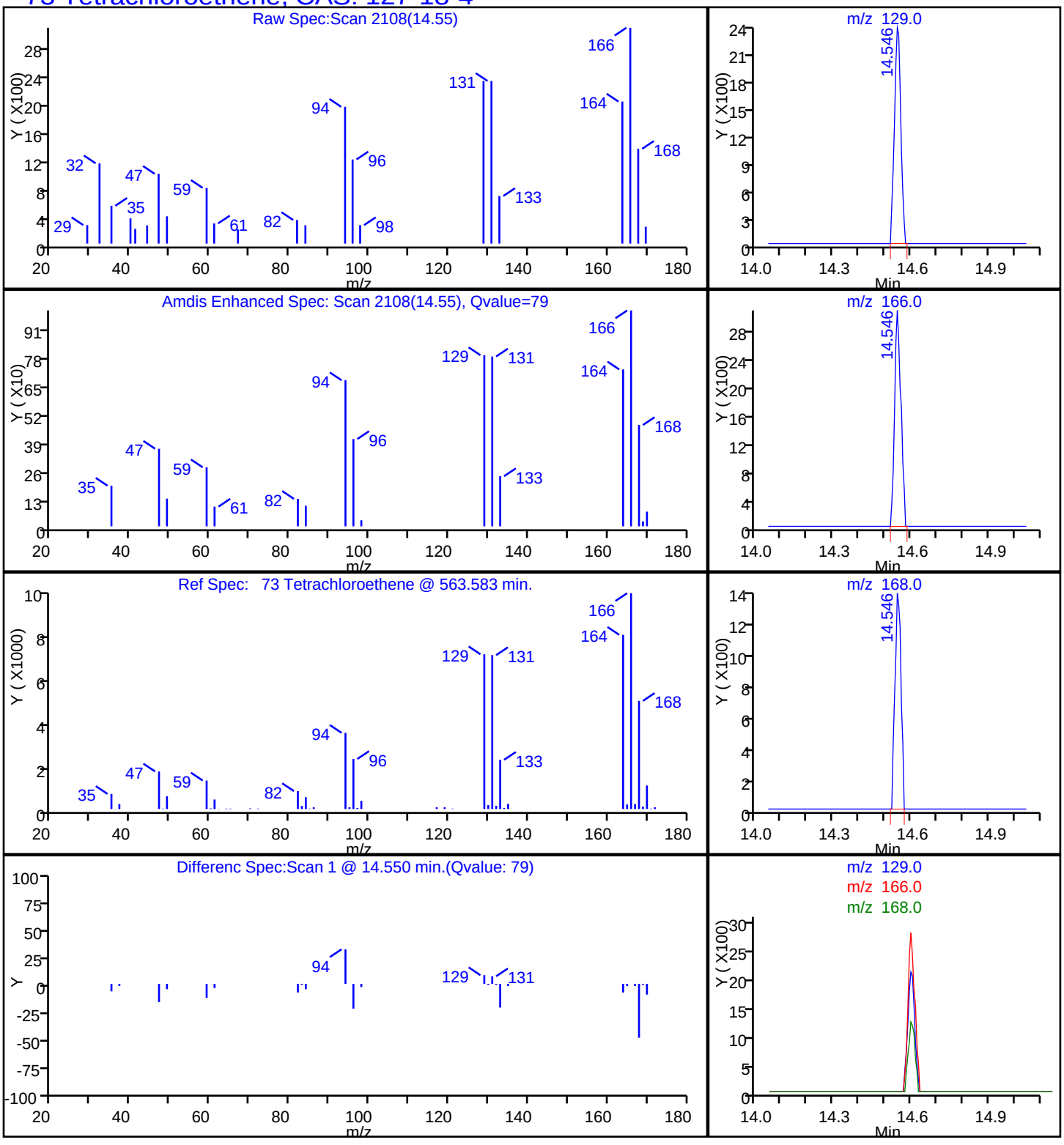
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



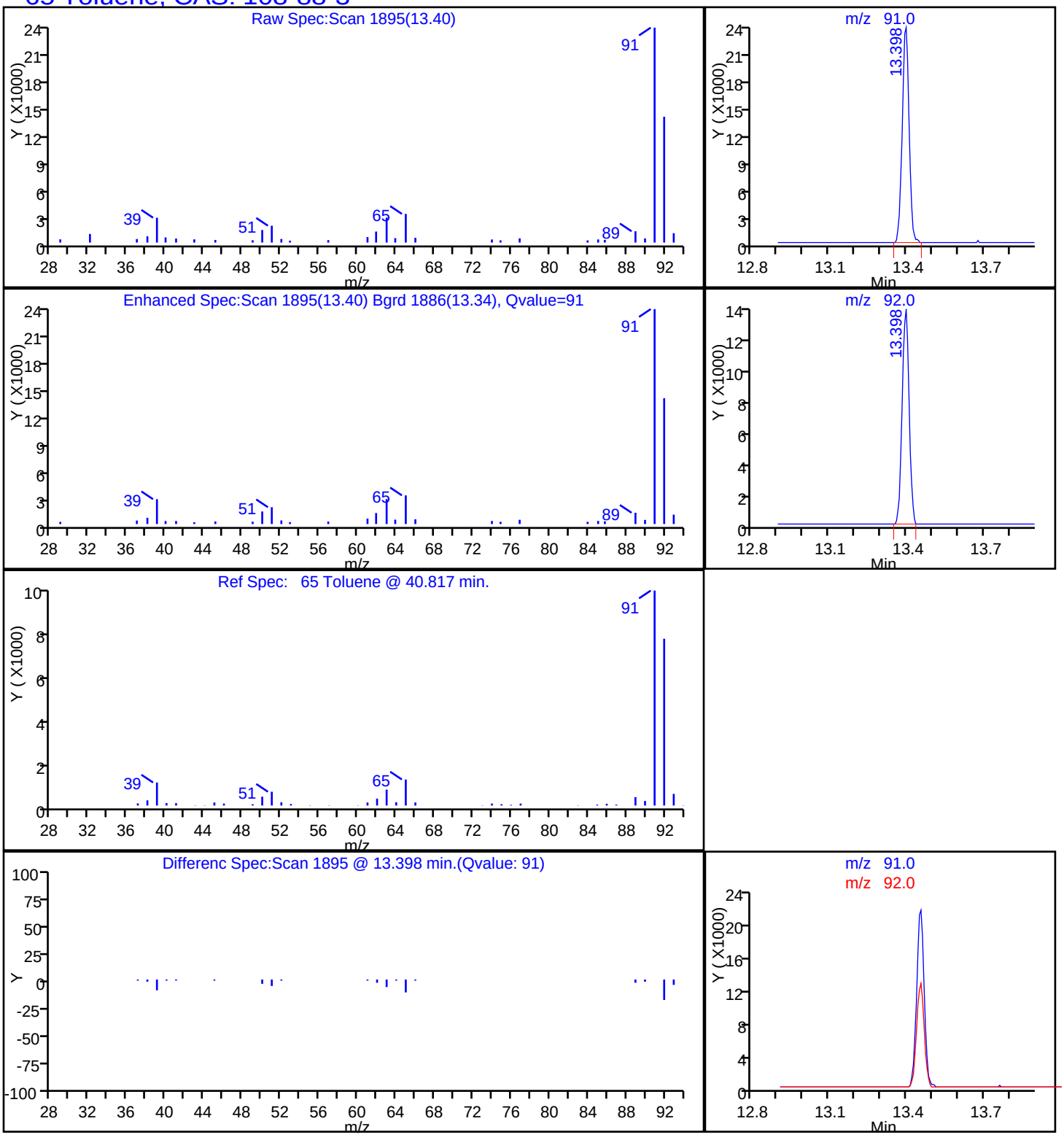
Report Date: 14-Mar-2014 07:28:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



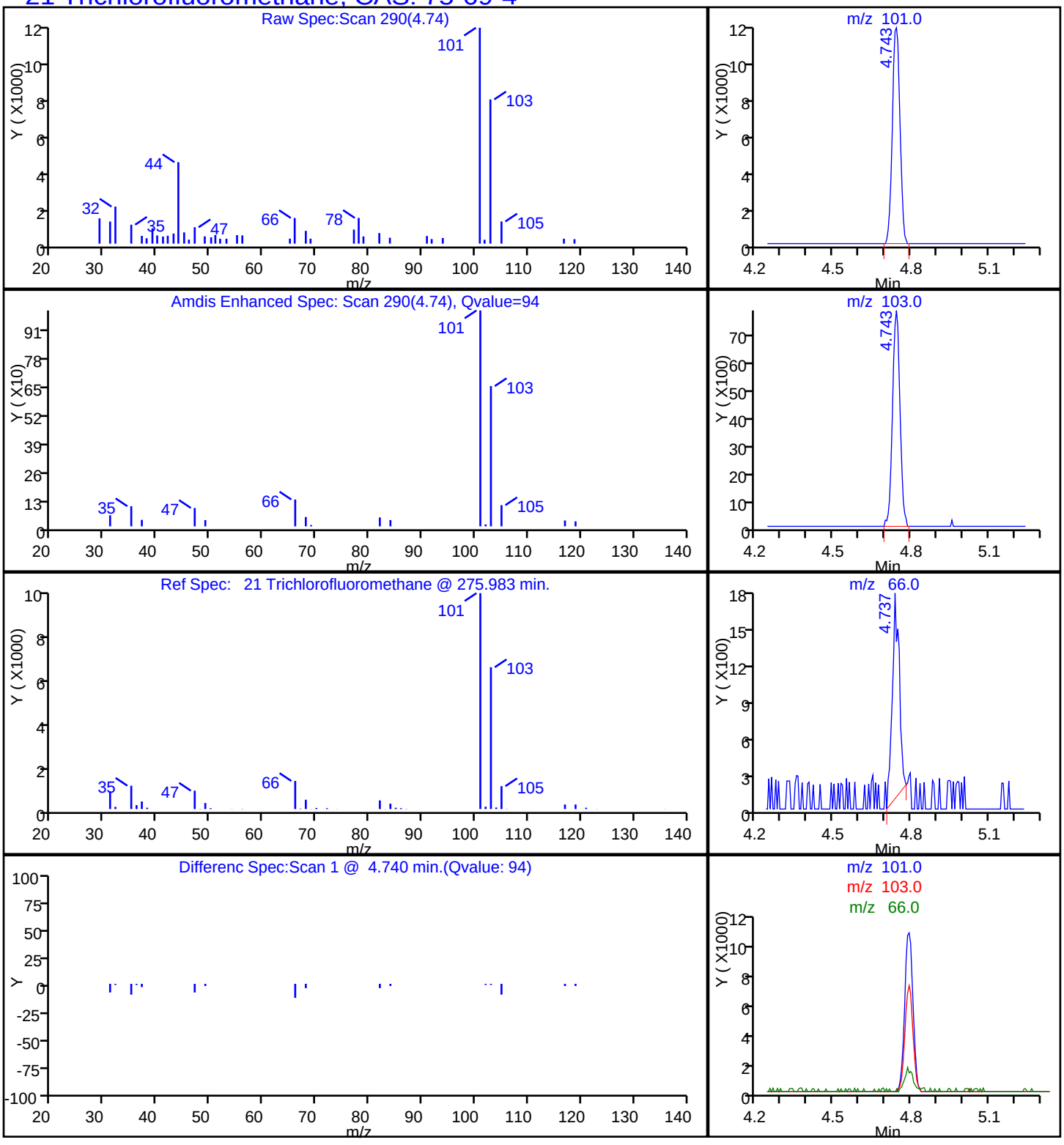
Report Date: 14-Mar-2014 07:28:56 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115.D

Injection Date:	14-Mar-2014 02:31:30	Instrument ID:	ME		
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9		
Client ID:	PCV-IA2-B18				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 DL Lab Sample ID: 140-1037-9 DL

Matrix: Air Lab File ID: EC13P115DL.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 50(mL) Date Analyzed: 03/14/2014 08:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	470		8.0	8.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA2-B18 DL Lab Sample ID: 140-1037-9 DL

Matrix: Air Lab File ID: EC13P115DL.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:08

Sample wt/vol: 50(mL) Date Analyzed: 03/14/2014 08:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	880		15	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115DL.D
Lims ID: 140-1037-A-9 Lab Sample ID: 140-1037-9
Client ID: PCV-IA2-B18
Sample Type: Client
Inject. Date: 14-Mar-2014 08:31:30 ALS Bottle#: 15 Worklist Smp#: 29
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-9
Misc. Info.: E031314,TO155,,140-0000518-029
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:06:37 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 09:09:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	214562	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1065162	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	977610	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	817677	3.82	
7 Propene	41	3.319	3.309	0.010	54	9113	0.1688	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	96	11136	0.0469	
9 Chloromethane	52	3.530	3.530	0.0	75	1589	0.0839	
17 Ethanol	31	4.322	4.312	0.010	98	1003710	46.8	
19 2-Methylbutane	43	4.533	4.538	-0.005	83	7756	0.1032	
21 Trichlorofluoromethane	101	4.738	4.748	-0.010	80	6141	0.0258	
23 Acetone	58	4.878	4.878	0.0	99	53225	1.64	
24 Isopropyl alcohol	45	4.986	4.970	0.016	97	19545	0.2336	
31 Methylene Chloride	84	5.784	5.789	-0.005	68	7839	0.1279	
40 Hexane	56	7.579	7.585	-0.006	63	883	0.0155	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	91	20732	0.1642	
76 Ethylbenzene	91	15.878	15.722	0.156	83	17758	0.0529	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	93	17758	0.0673	
80 Styrene	104	16.353	16.353	0.0	92	14911	0.0816	
82 o-Xylene	91	16.407	16.412	-0.005	72	9222	0.0323	

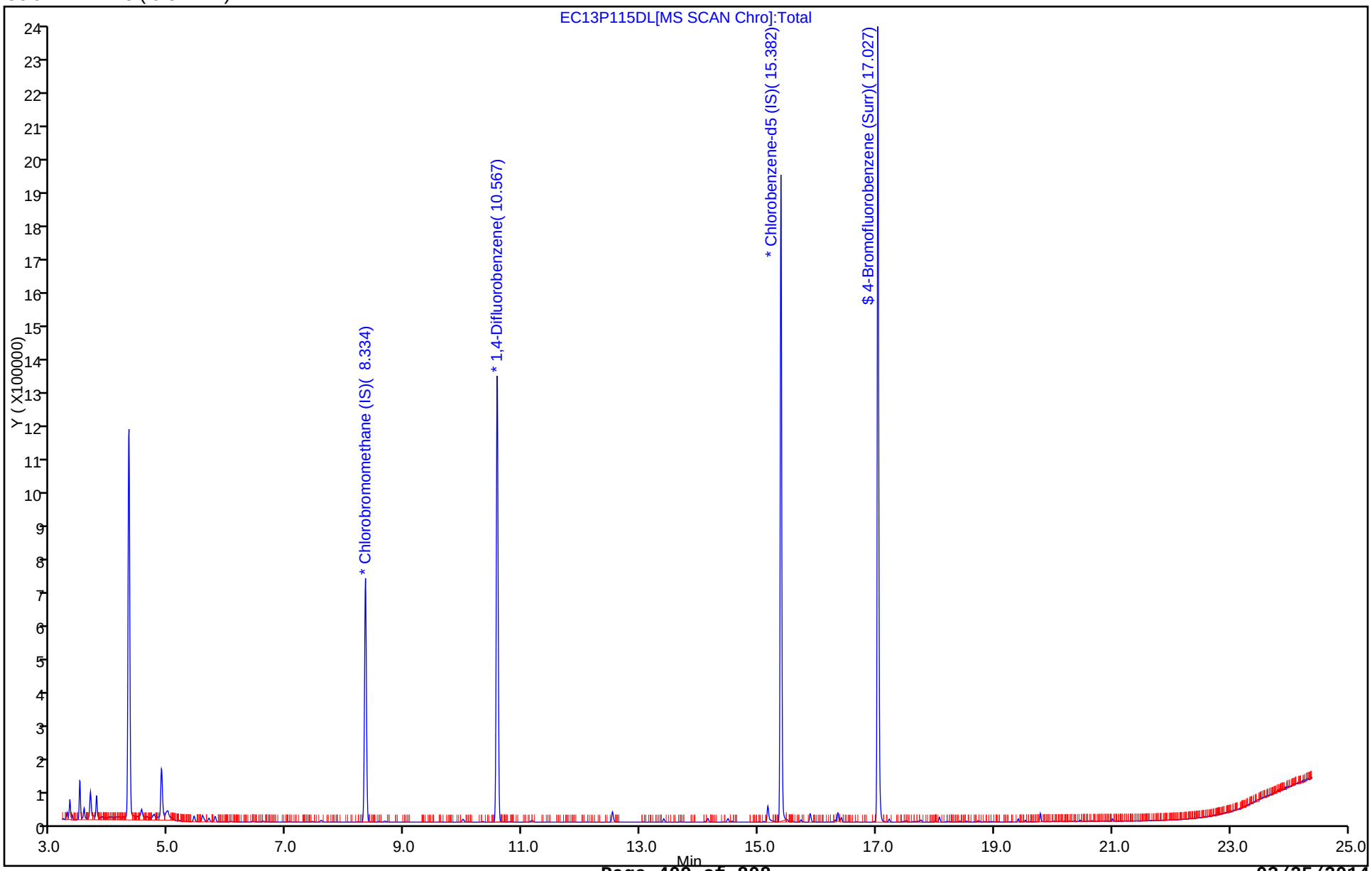
Report Date: 14-Mar-2014 09:09:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115DL.D

Injection Date:	14-Mar-2014 08:31:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9	Worklist Smp#:	29
Client ID:	PCV-IA2-B18				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



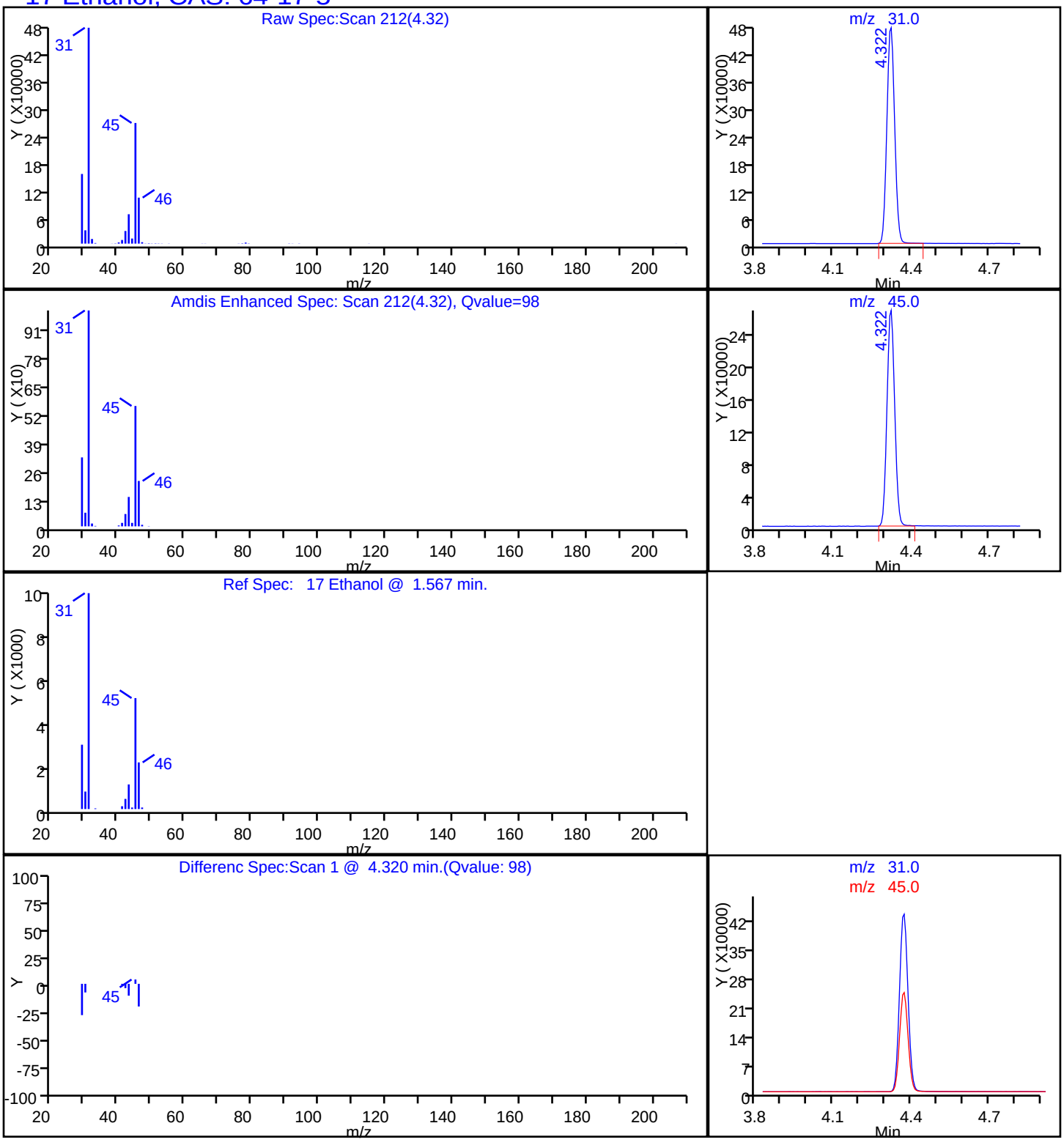
Report Date: 14-Mar-2014 09:09:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P115DL.D

Injection Date:	14-Mar-2014 08:31:30	Instrument ID:	ME
Lims ID:	140-1037-A-9	Lab Sample ID:	140-1037-9
Client ID:	PCV-IA2-B18		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 29
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.061	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.085	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.23	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.63		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.050	J	0.50	0.045
67-64-1	Acetone	58.08	3.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.061	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.043	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.46	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	32		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.37		0.20	0.068
142-82-5	Heptane	100.21	0.075	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	2.0		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.0		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.74		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.26		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.46	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.42	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.68	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.20	J	2.0	0.18
67-64-1	Acetone	58.08	7.9	J	12	3.3
71-43-2	Benzene	78.11	0.64		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.38	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.21	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.95	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	59		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.6		0.87	0.30
142-82-5	Heptane	100.21	0.31	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.59	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	6.9		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	8.5		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	3.2		0.87	0.26
115-07-1	Propene	42.08	2.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.98		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA3-B18 Lab Sample ID: 140-1037-10

Matrix: Air Lab File ID: EC13P116.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:12

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D
Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10
Client ID: PCV-IA3-B18
Sample Type: Client
Inject. Date: 14-Mar-2014 03:16:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-10
Misc. Info.: E031314,TO155,,140-0000518-022
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:28:56 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:29:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	232887	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1161746	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	1021157	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	927962	4.15	
7 Propene	41	3.319	3.309	0.010	55	32549	0.5556	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	96	44721	0.1736	
9 Chloromethane	52	3.530	3.530	0.0	96	3797	0.1847	
17 Ethanol	31	4.328	4.312	0.016	99	293928	12.6	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	20666	0.2534	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25499	0.0987	
23 Acetone	58	4.878	4.878	0.0	92	46907	1.33	
24 Isopropyl alcohol	45	4.980	4.970	0.010	94	44842	0.4938	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	65	3877	0.0242	
31 Methylene Chloride	84	5.784	5.789	-0.005	85	52592	0.7903	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	90	3521	0.0924	
40 Hexane	56	7.585	7.585	0.0	66	4132	0.0667	
43 Chloroform	83	8.340	8.351	-0.011	5	3413	0.0171	
48 Benzene	78	9.995	9.995	0.0	94	18792	0.0804	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	90	5456	0.0243	
54 n-Heptane	71	11.176	11.182	-0.006	65	2647	0.0299	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	67	2727	0.0198	
65 Toluene	91	13.398	13.403	-0.005	90	28367	0.1037	
76 Ethylbenzene	91	15.722	15.722	0.0	98	51406	0.1466	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	215213	0.7805	
82 o-Xylene	91	16.407	16.412	-0.005	96	88274	0.2961	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	77	10656	0.0340	

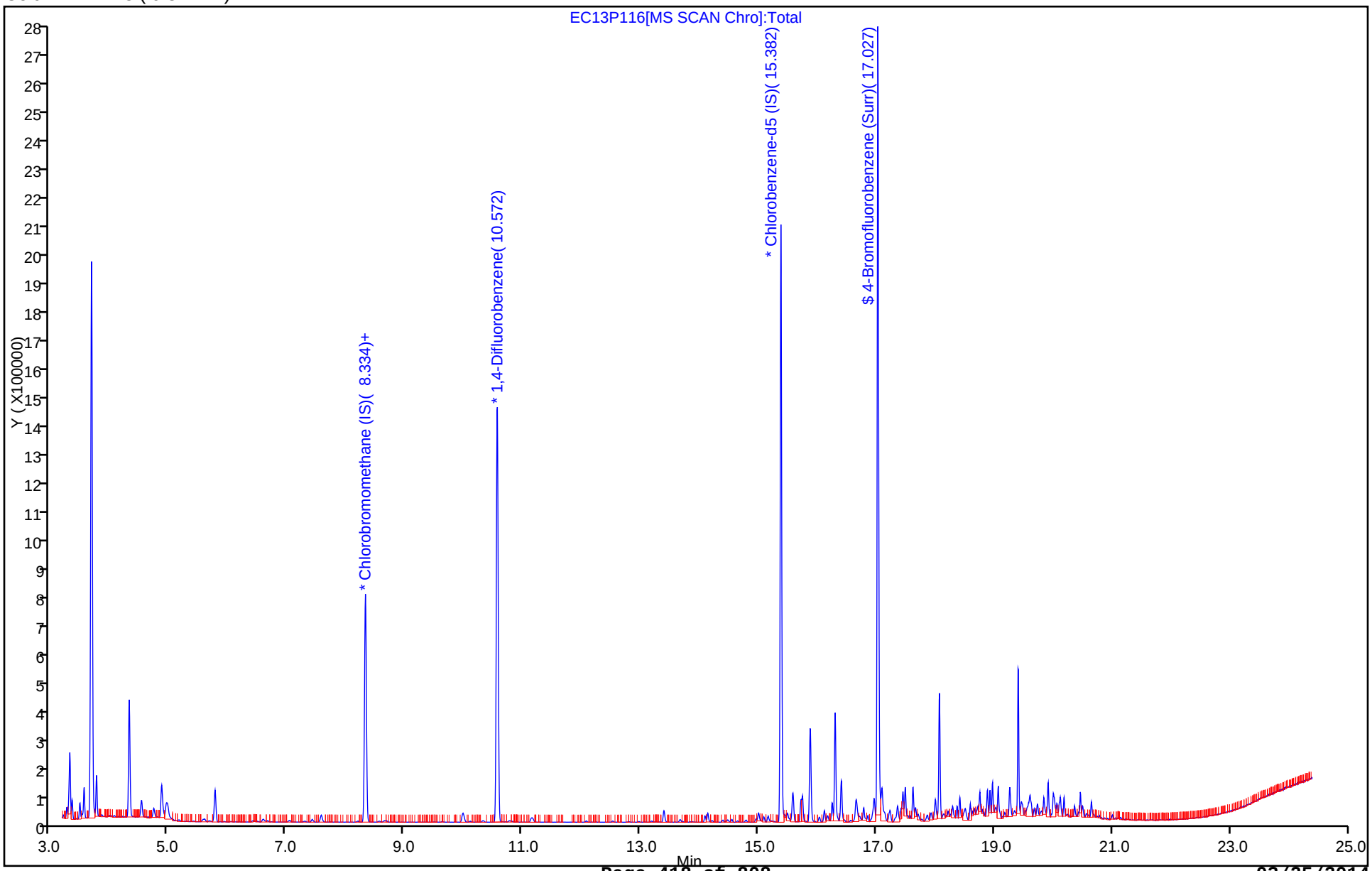
Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

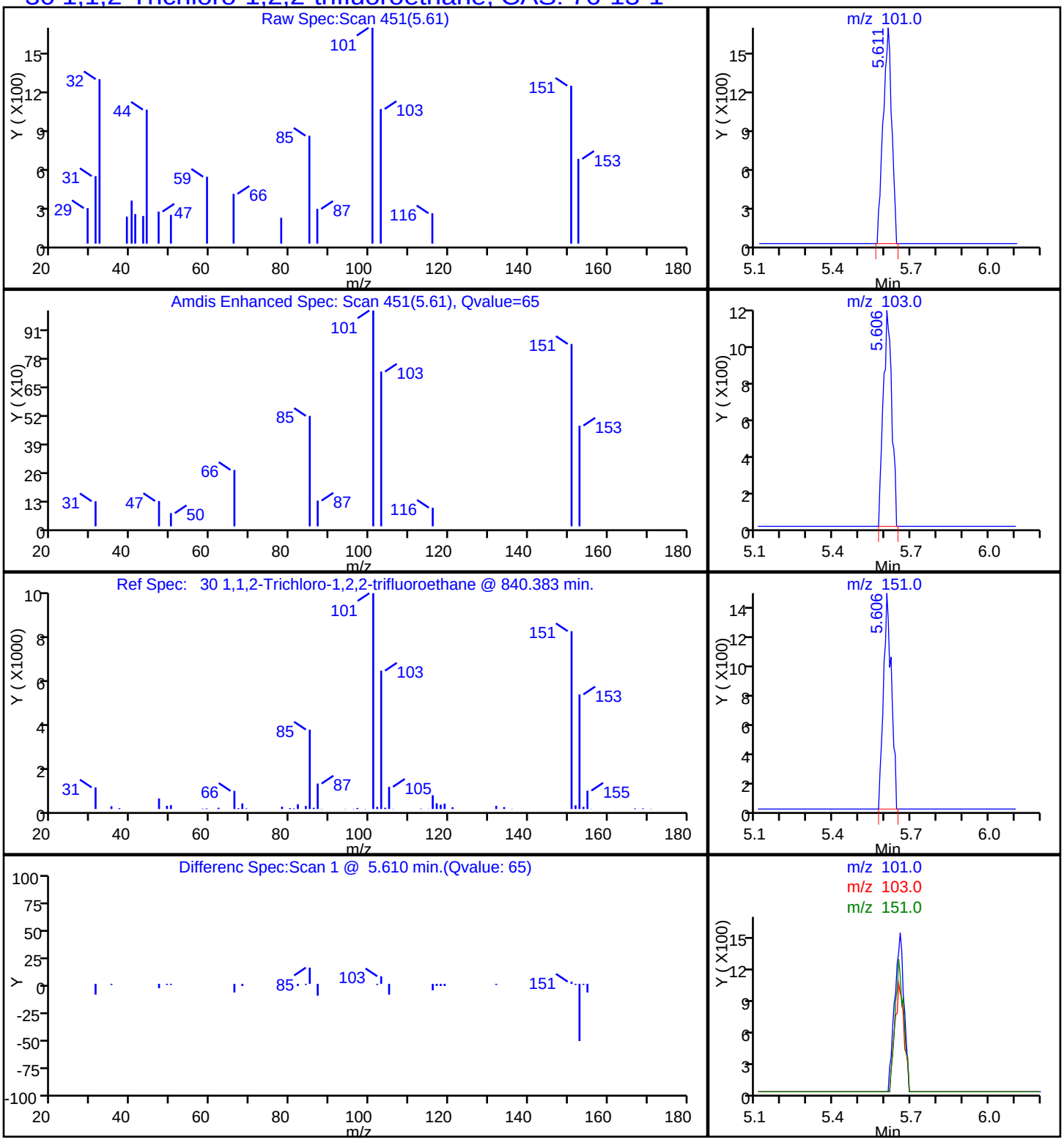
Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10	Worklist Smp#:	22
Client ID:	PCV-IA3-B18				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D
Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME
Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10
Client ID: PCV-IA3-B18
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



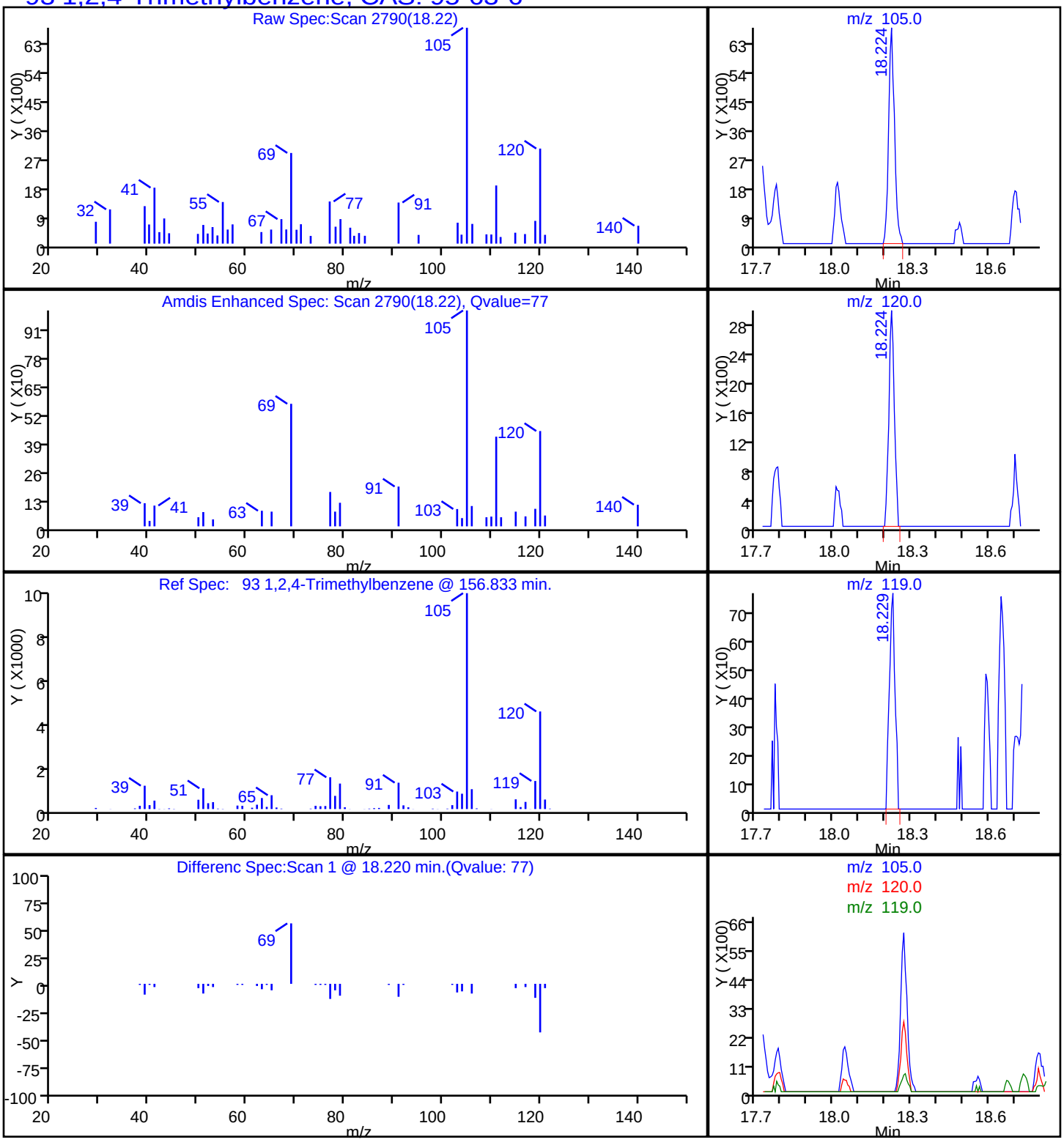
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

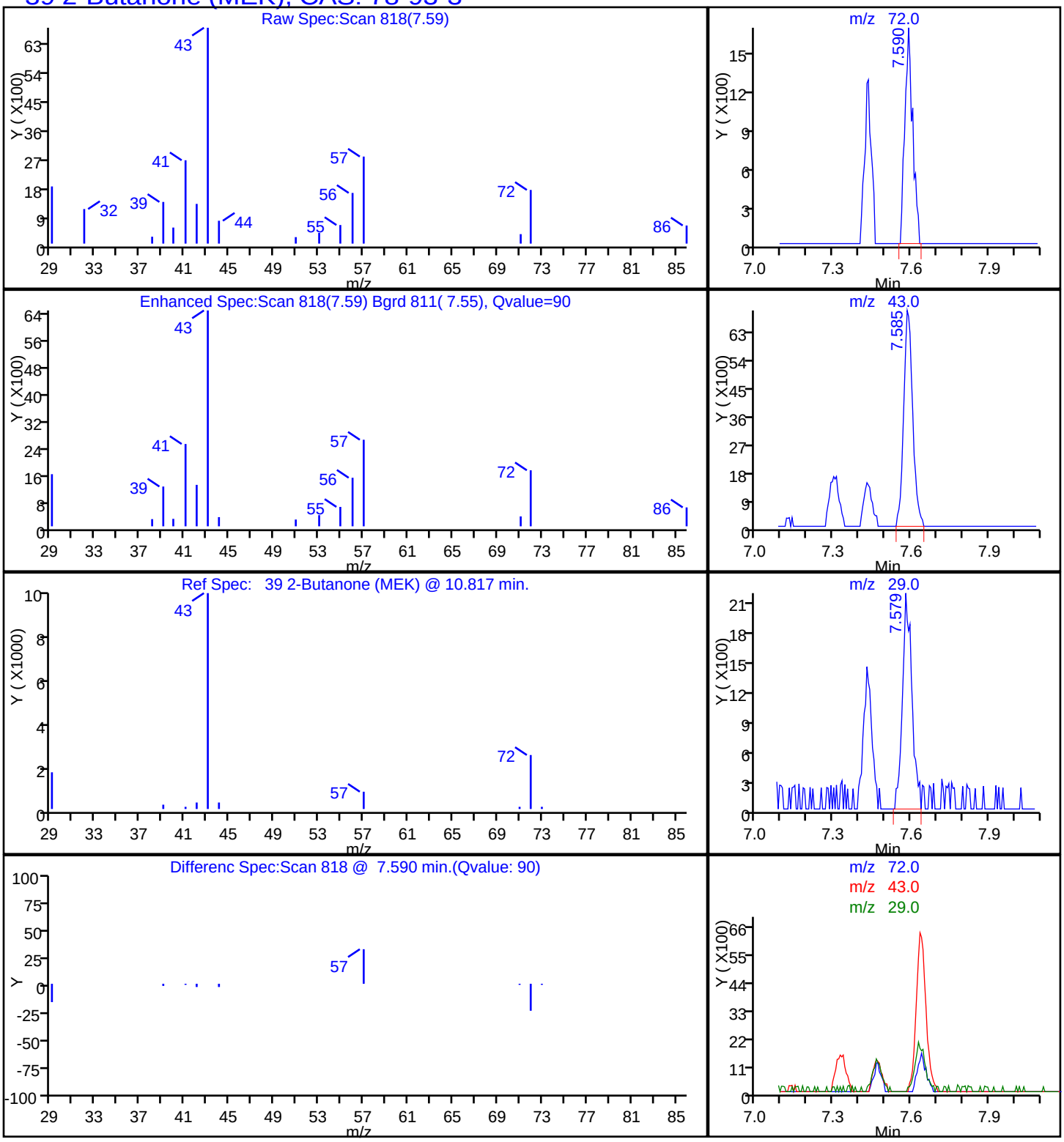
93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D				
Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



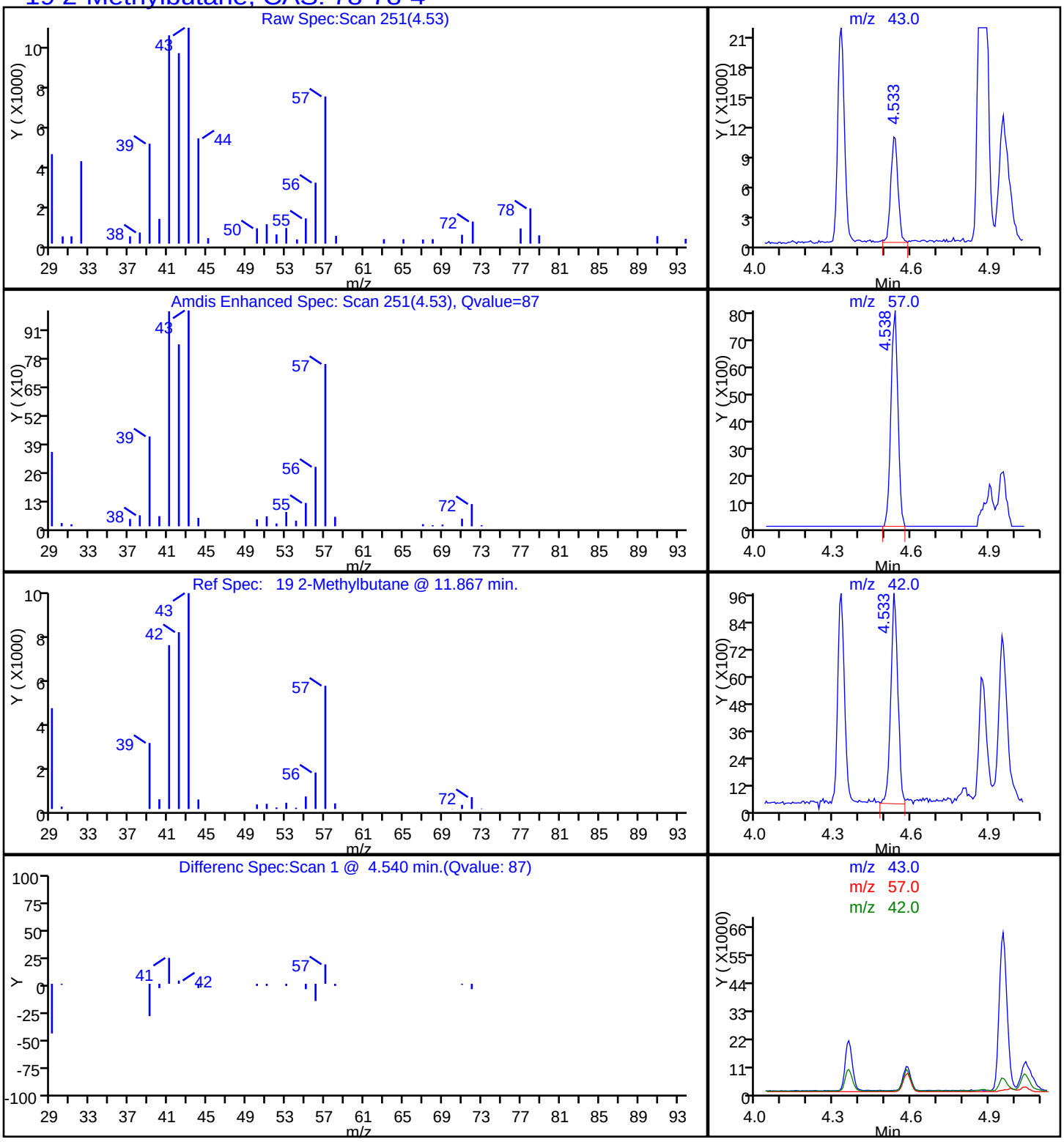
Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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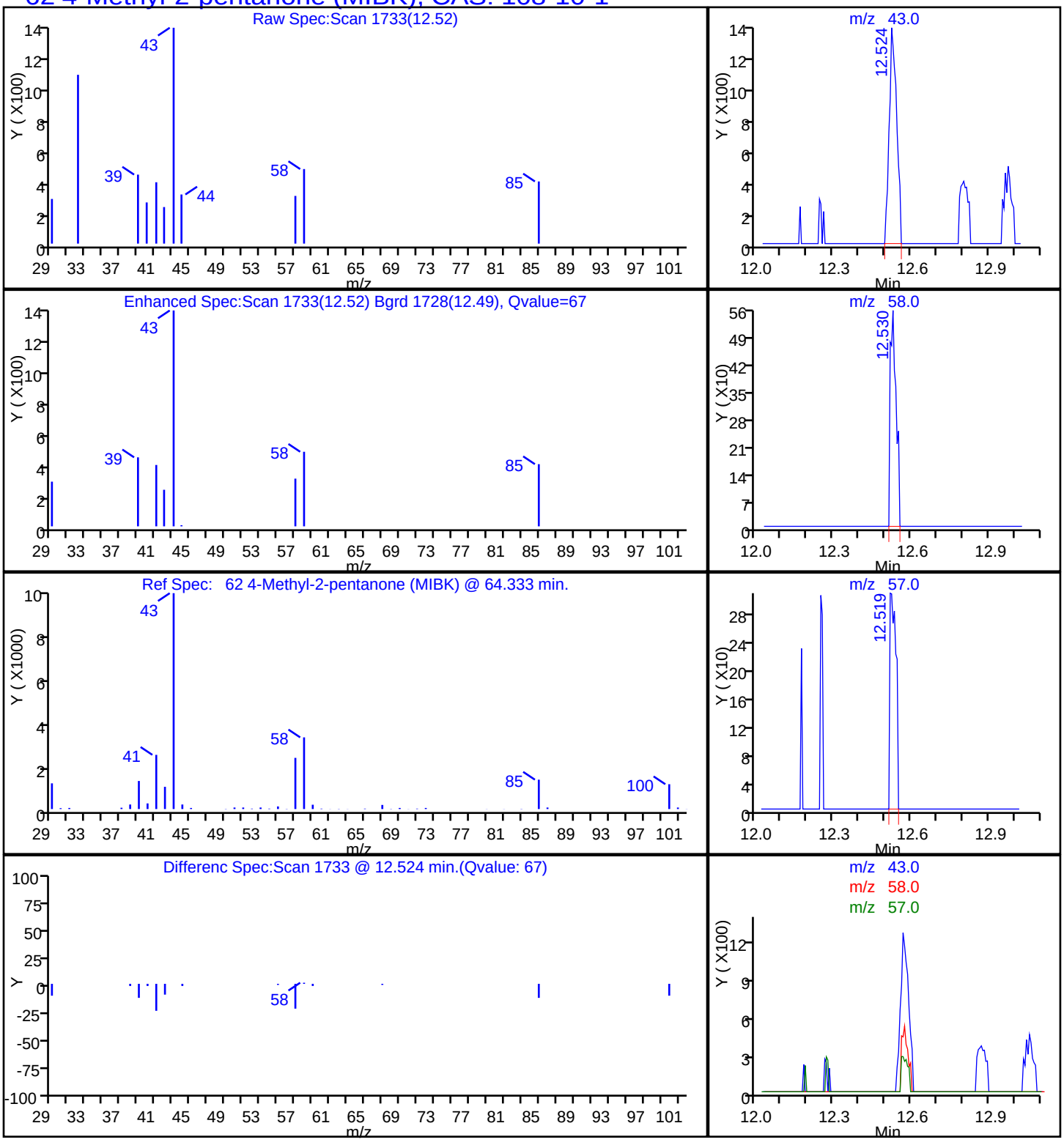
Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME
Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10
Client ID: PCV-IA3-B18
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

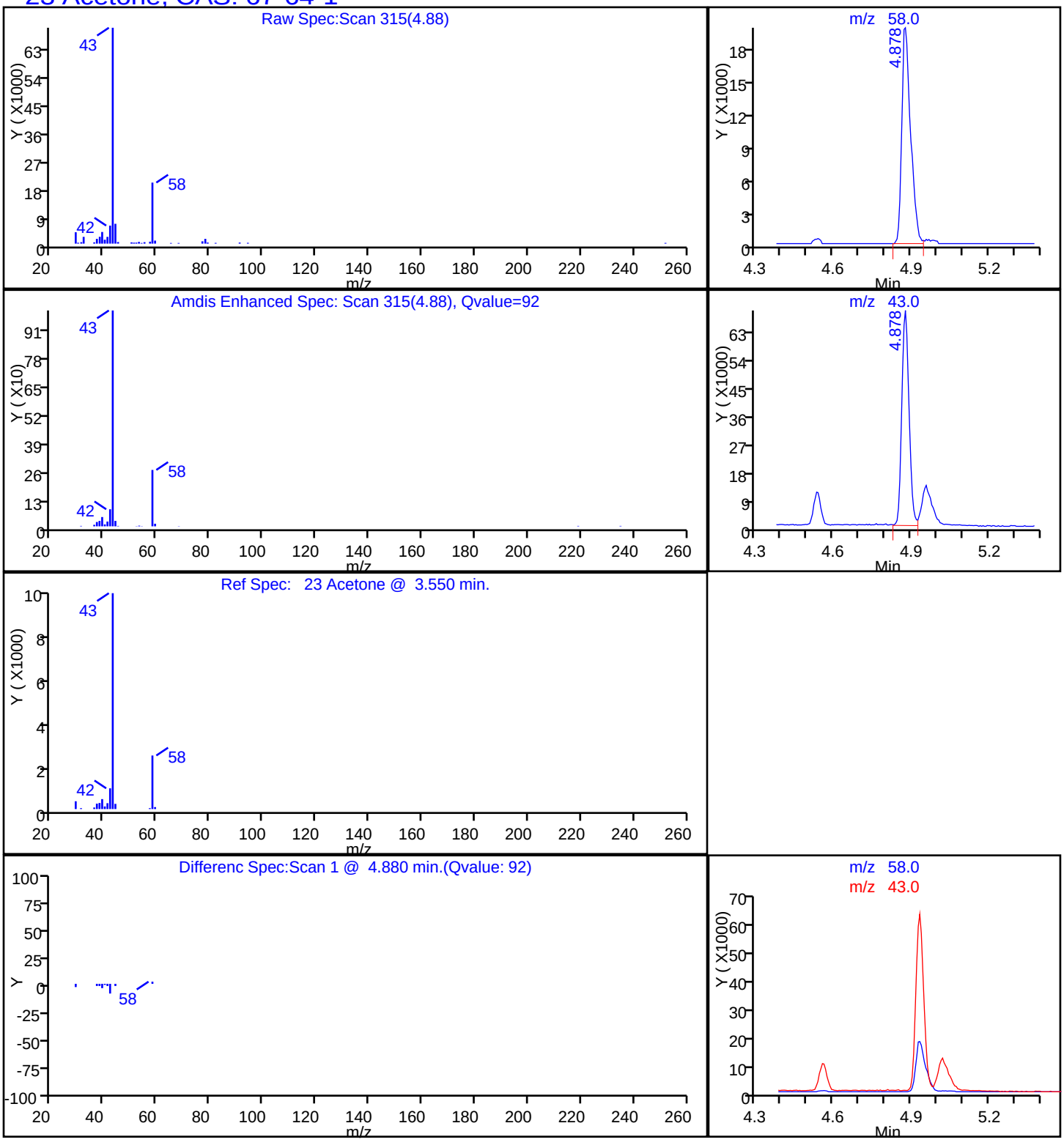
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



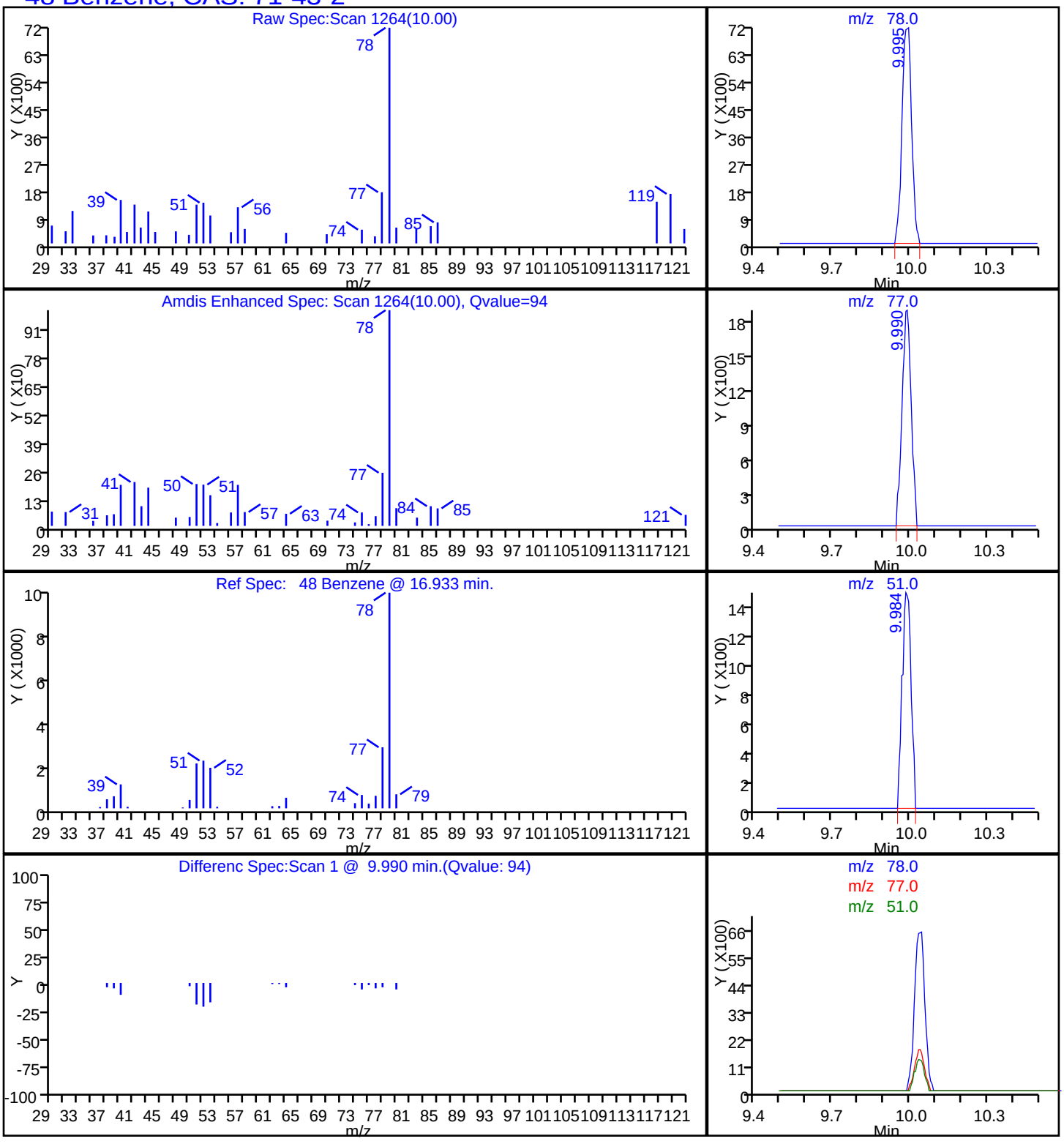
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

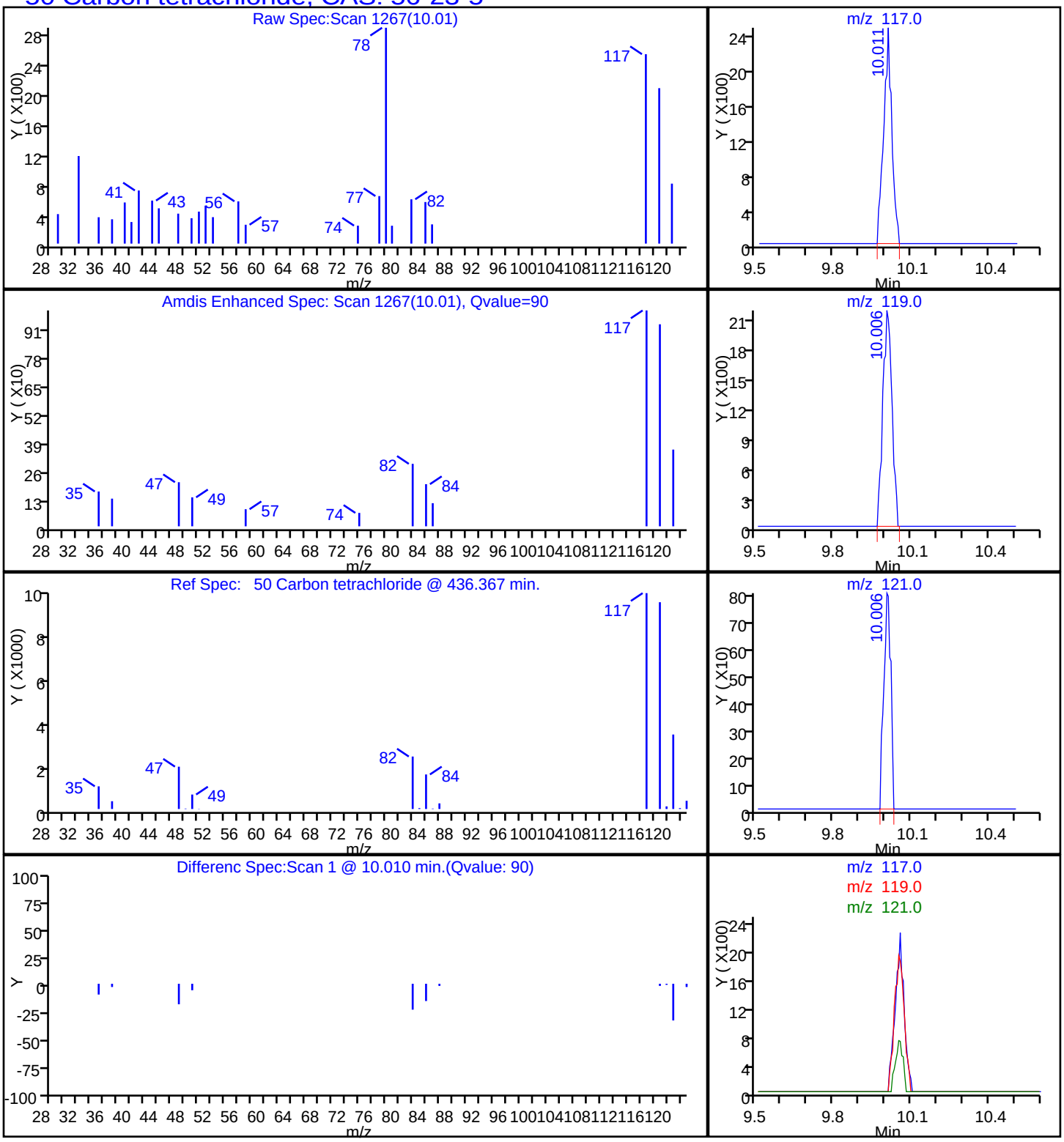
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

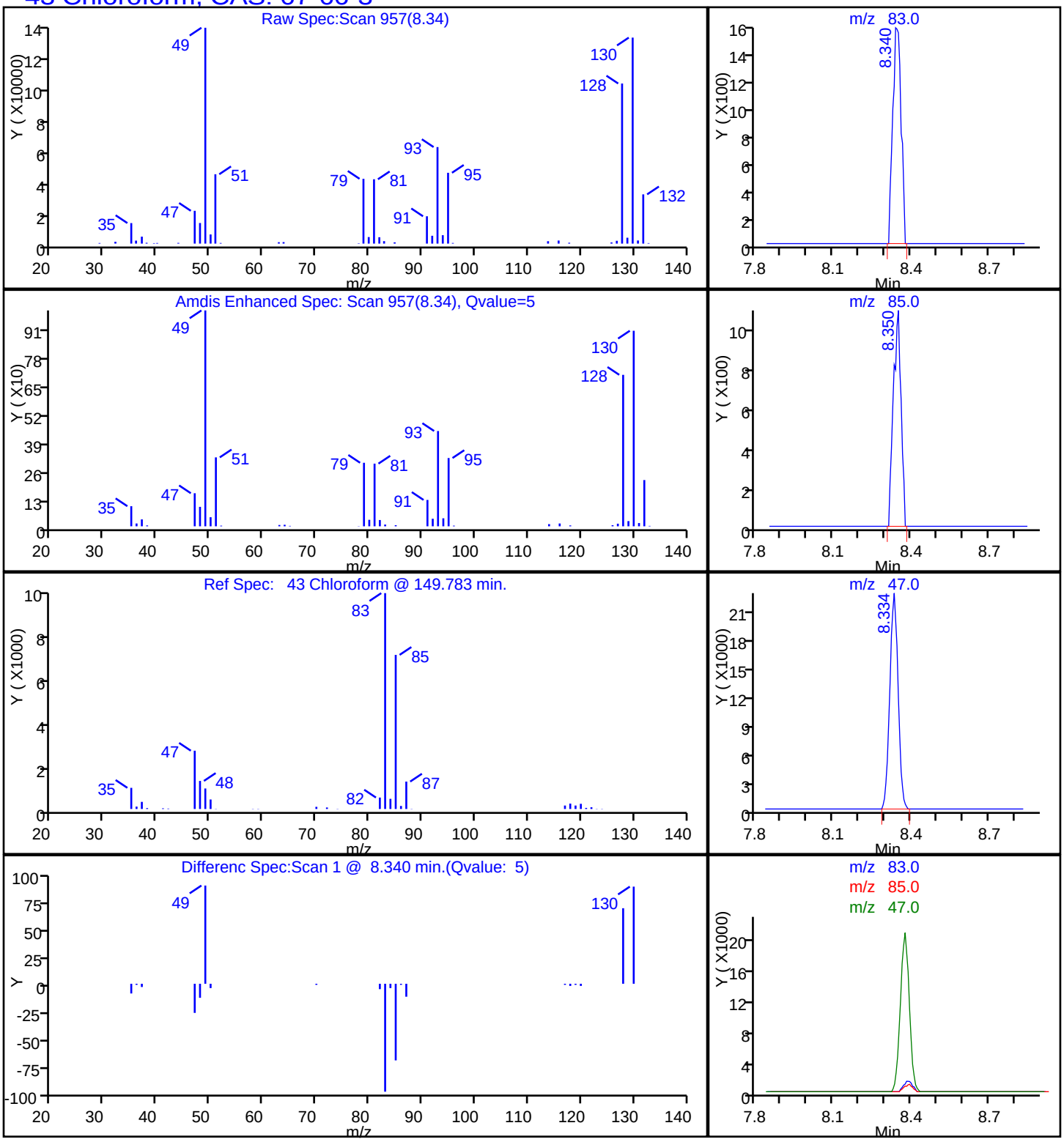
50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D		
Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

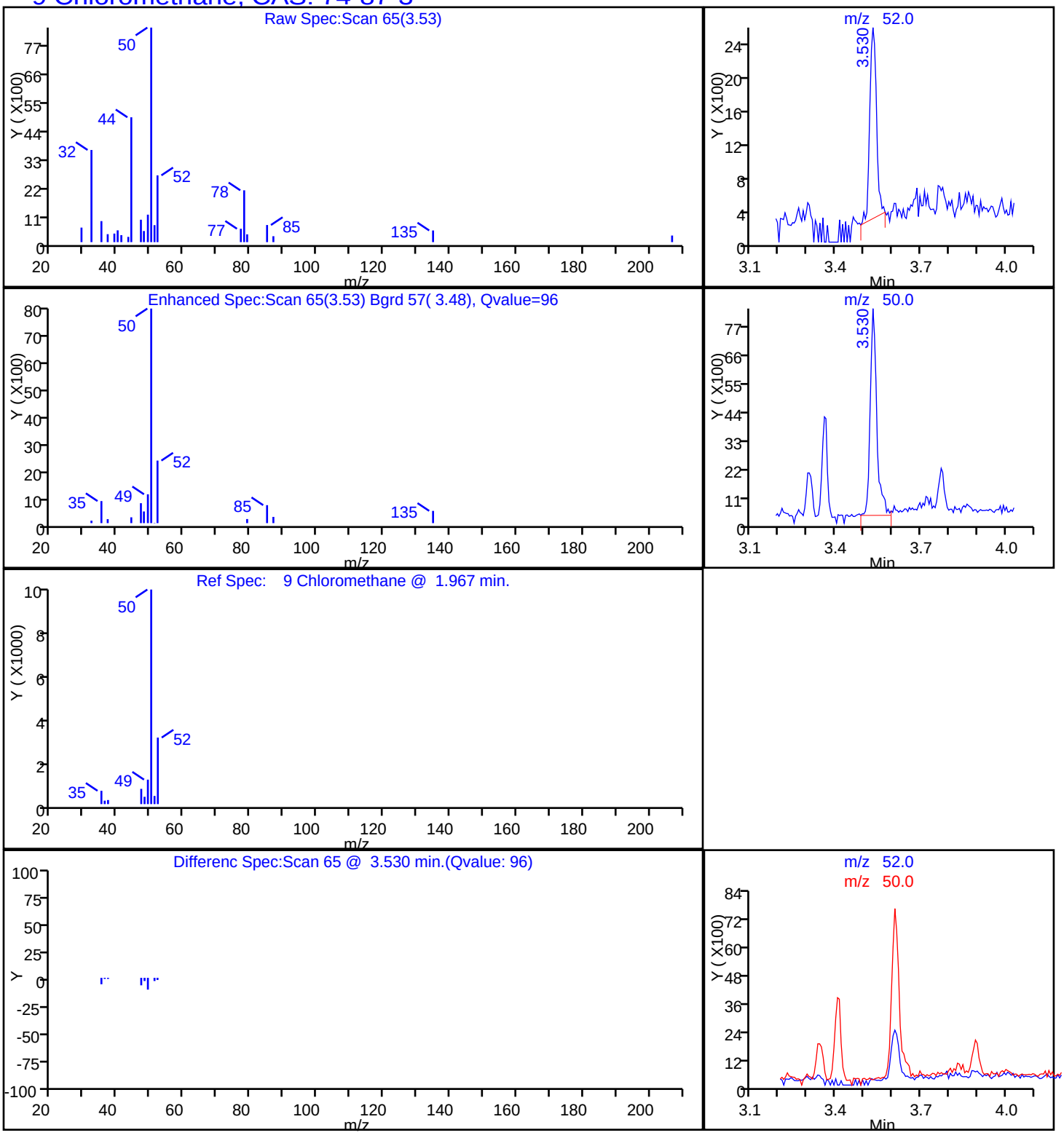
43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D		
Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

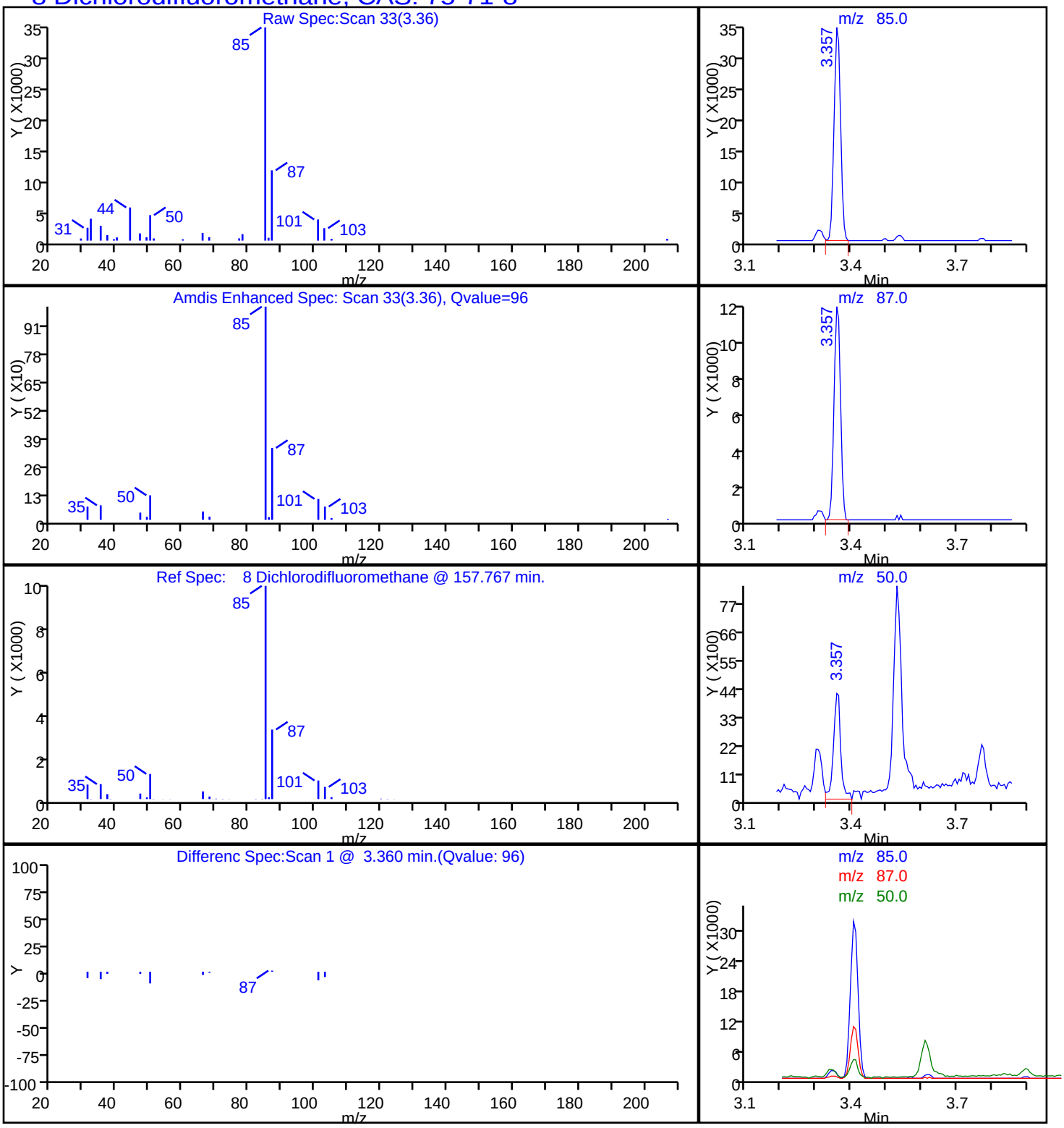
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

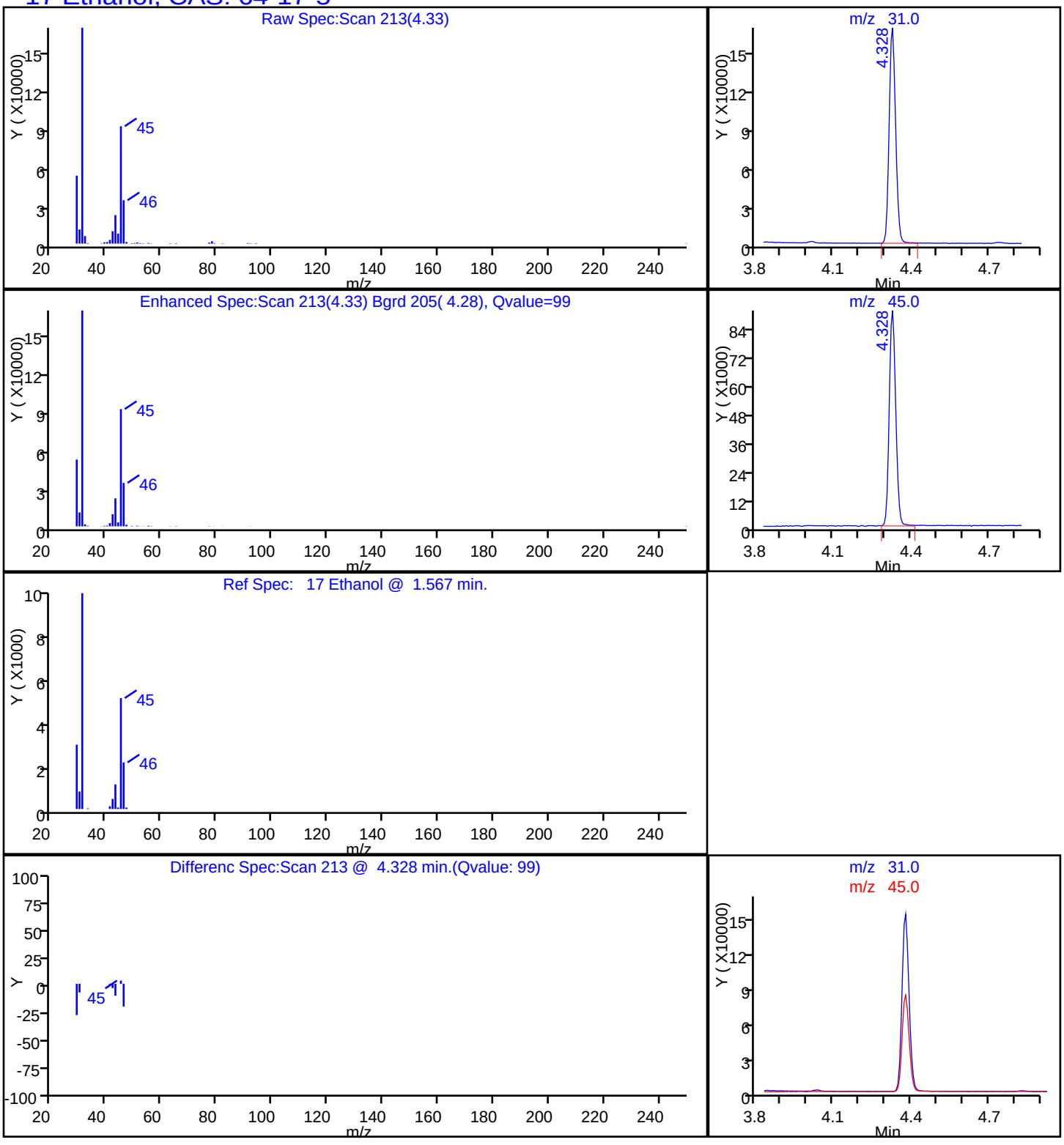
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5



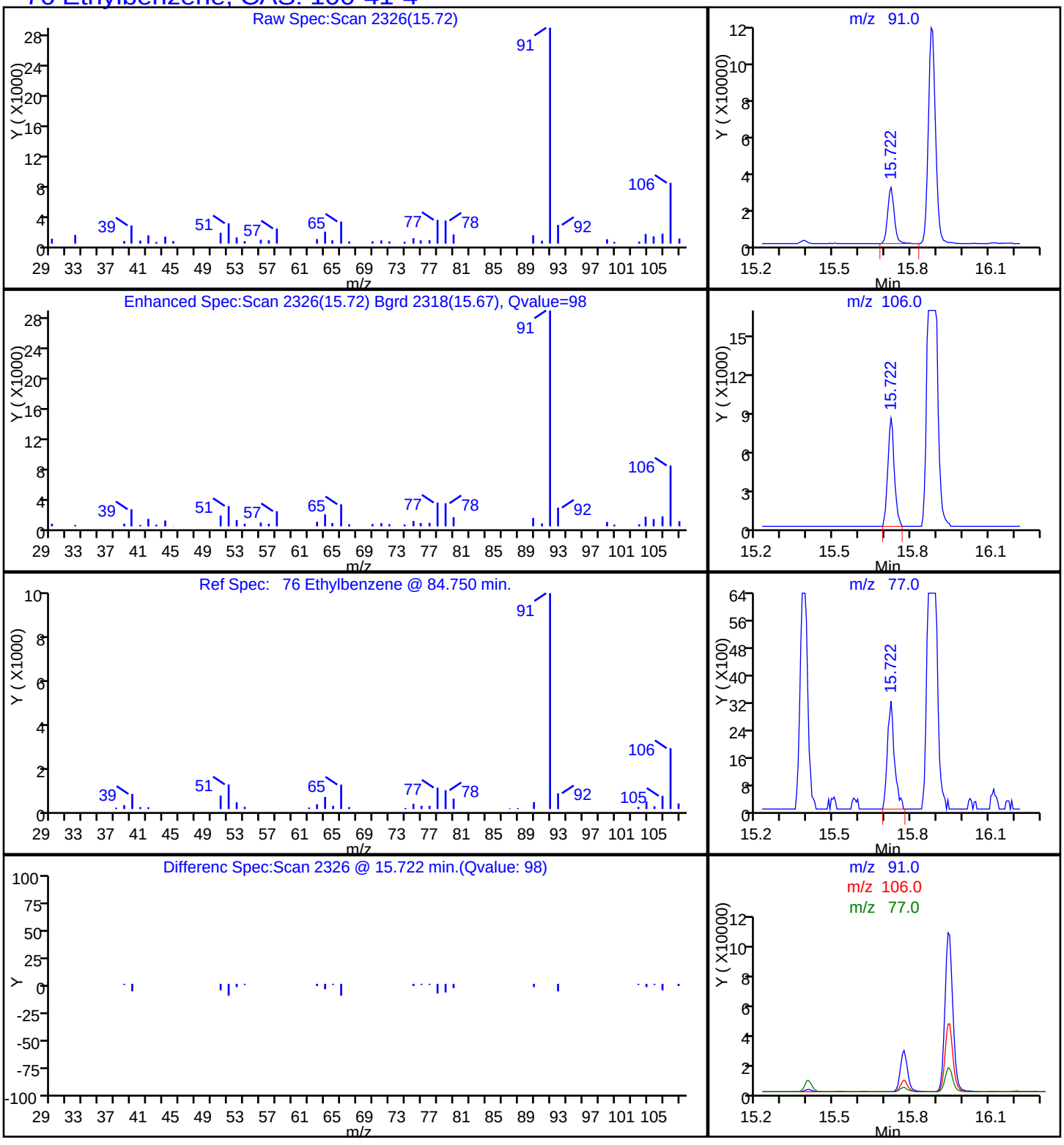
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



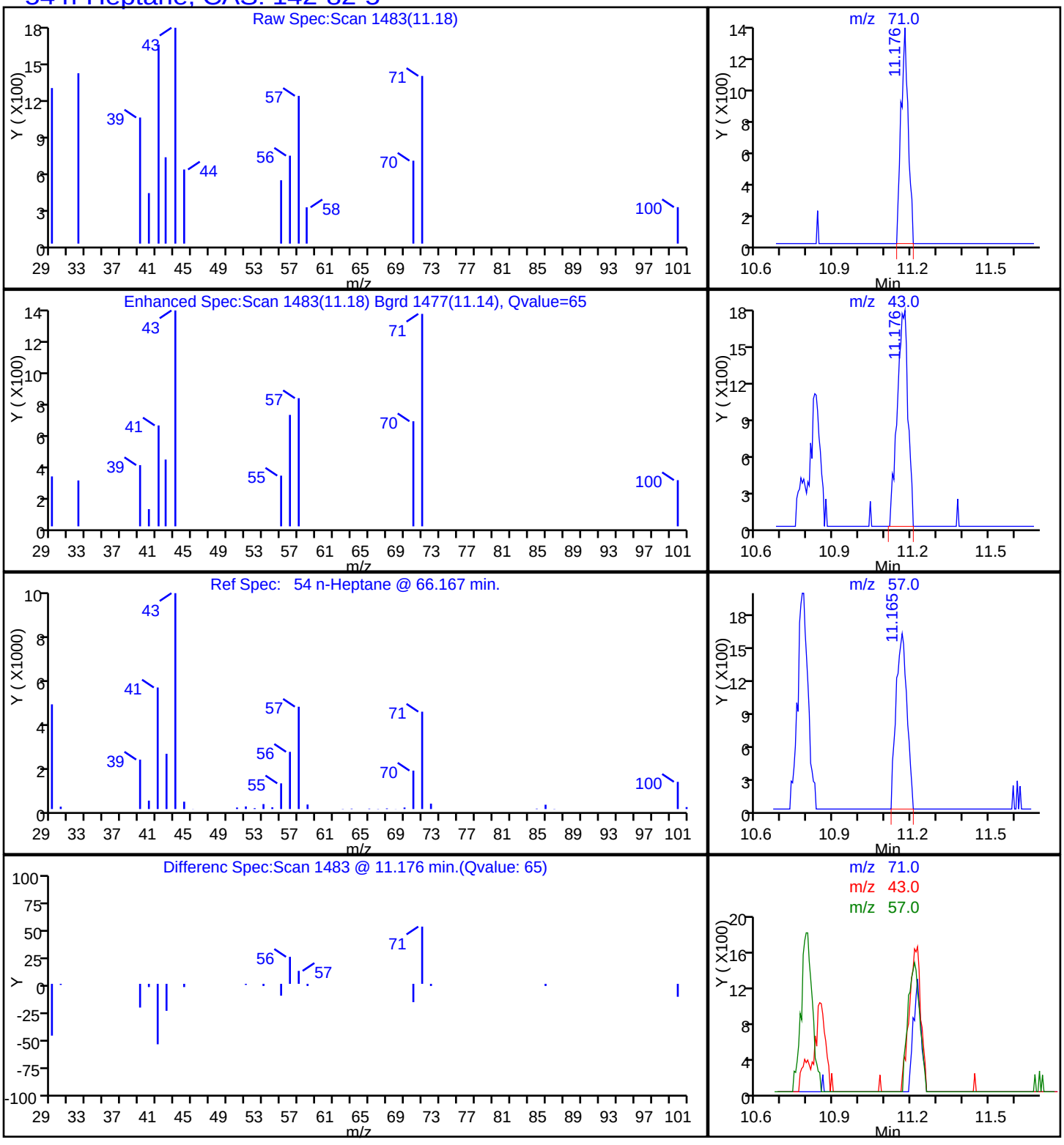
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



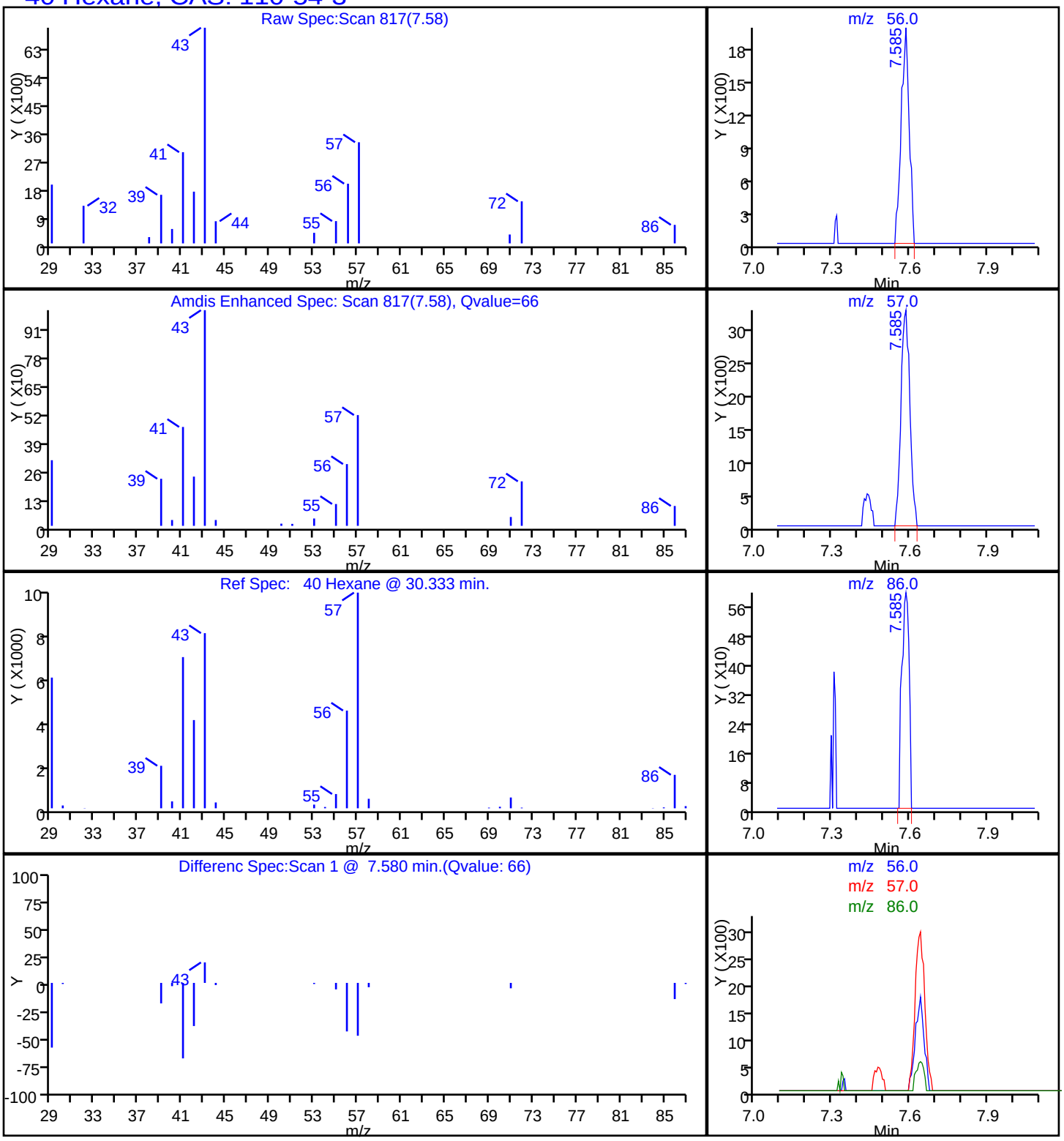
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

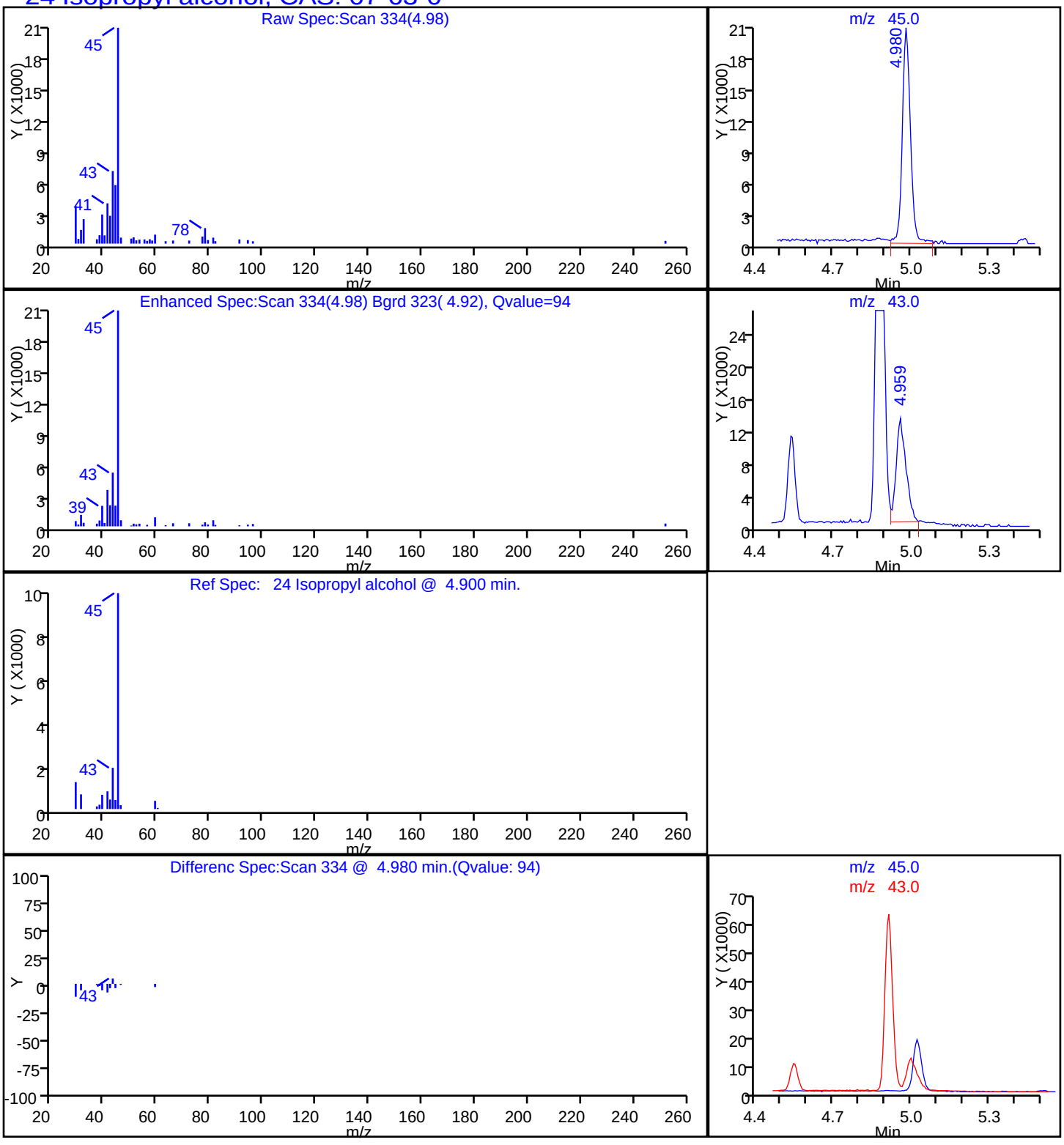
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



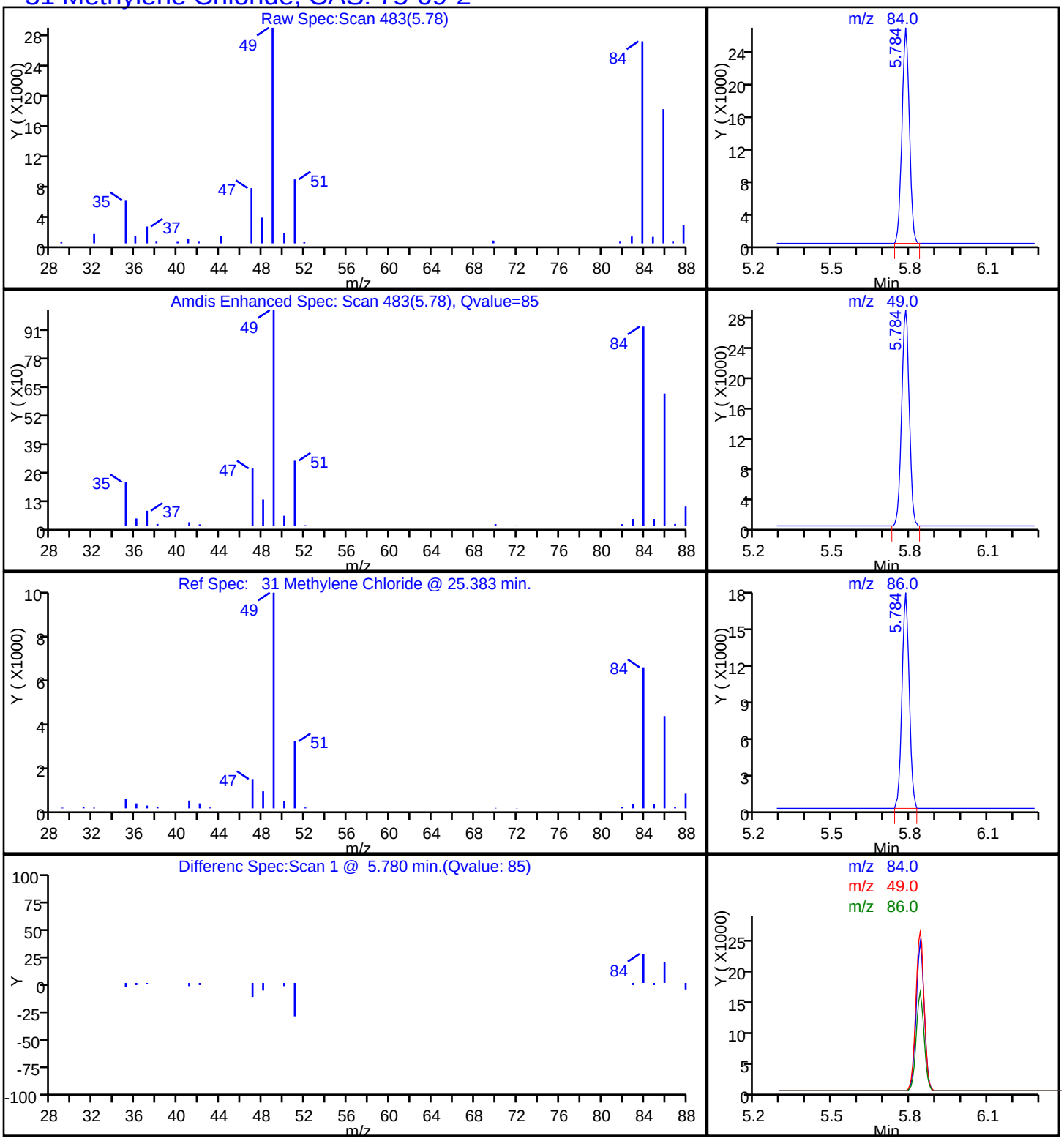
Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



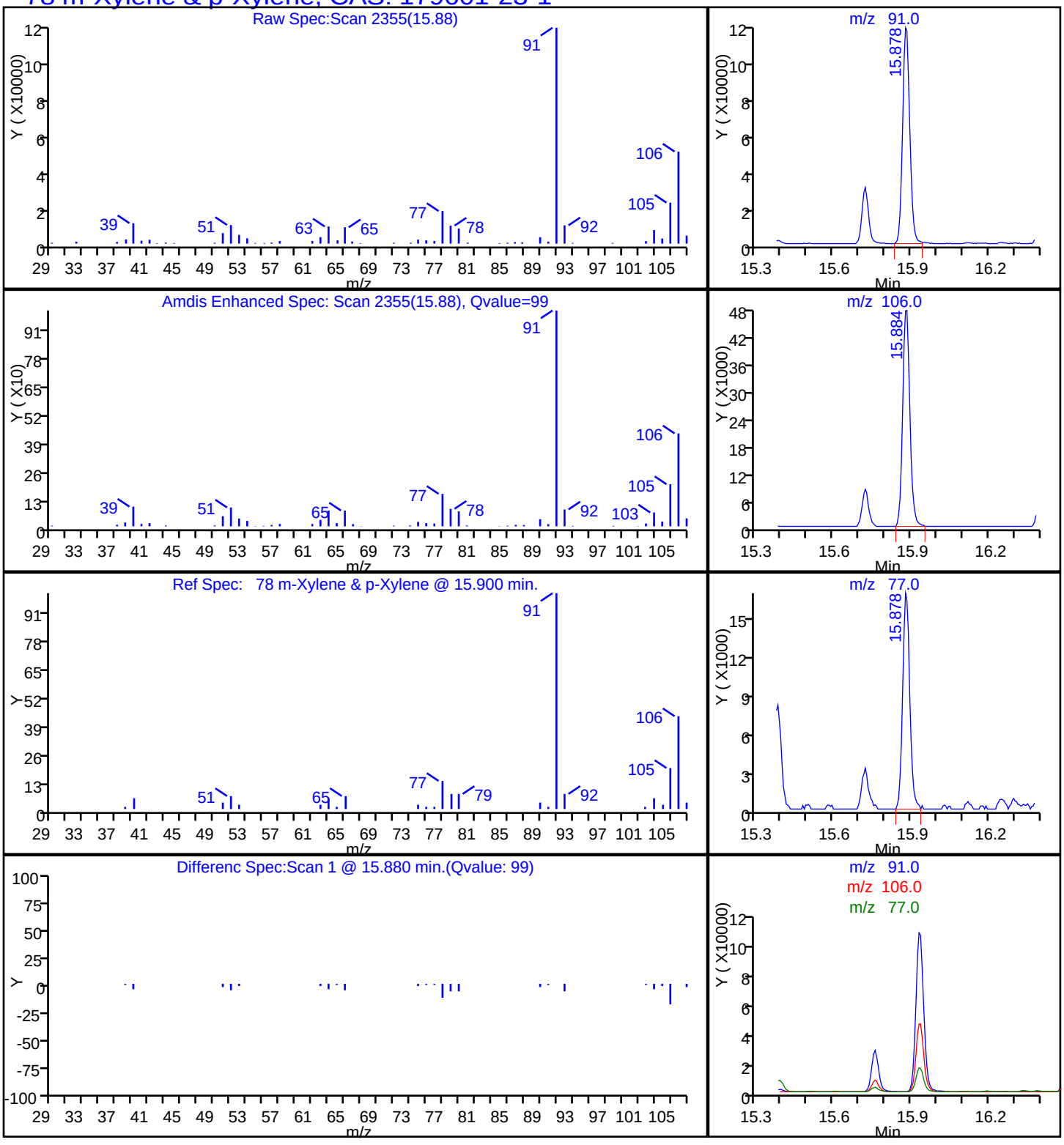
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

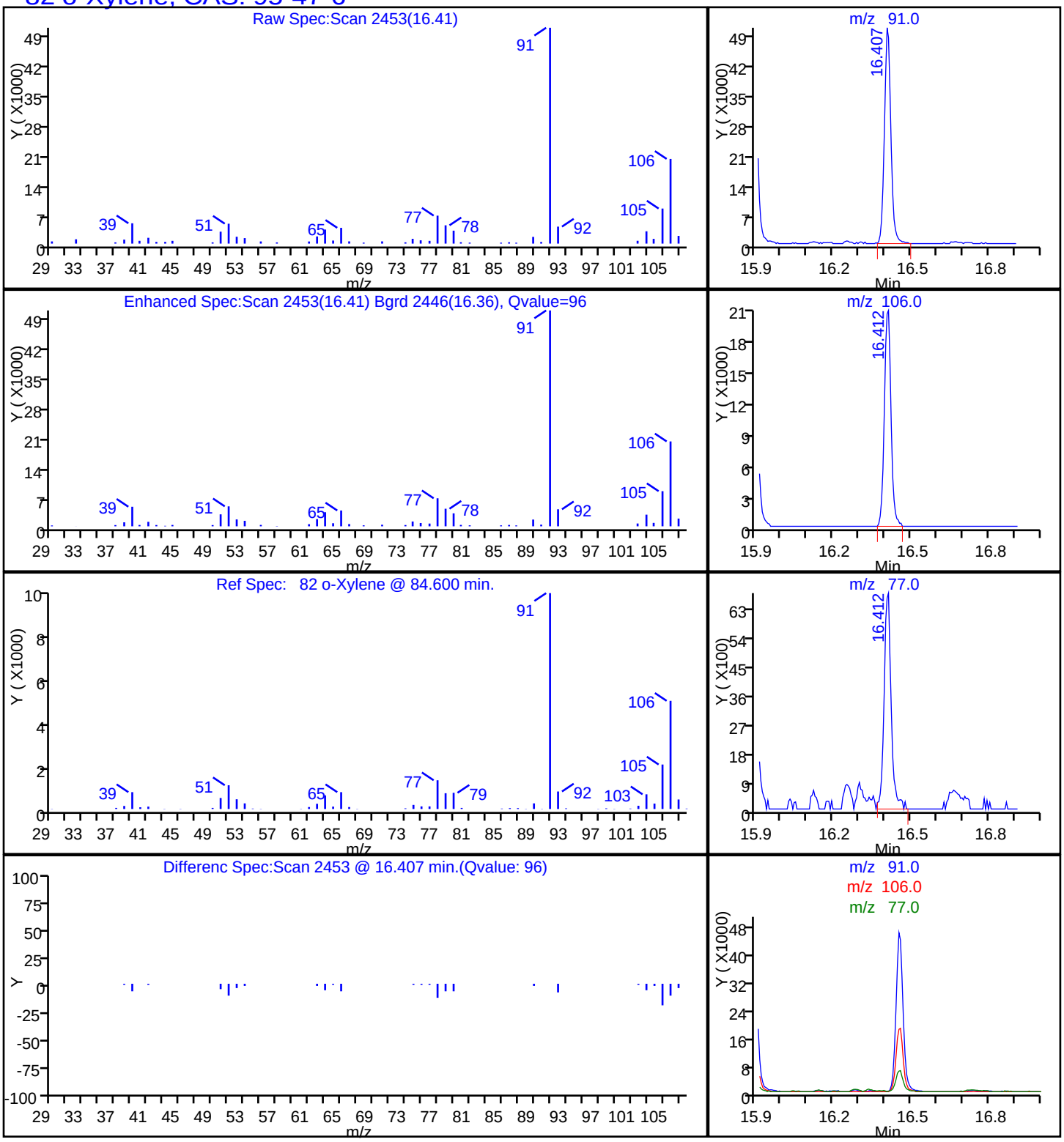


Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D		
Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10
Client ID:	PCV-IA3-B18		
Operator ID:	7126	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date: 14-Mar-2014 03:16:30 Instrument ID: ME

Lims ID: 140-1037-A-10 Lab Sample ID: 140-1037-10

Client ID: PCV-IA3-B18

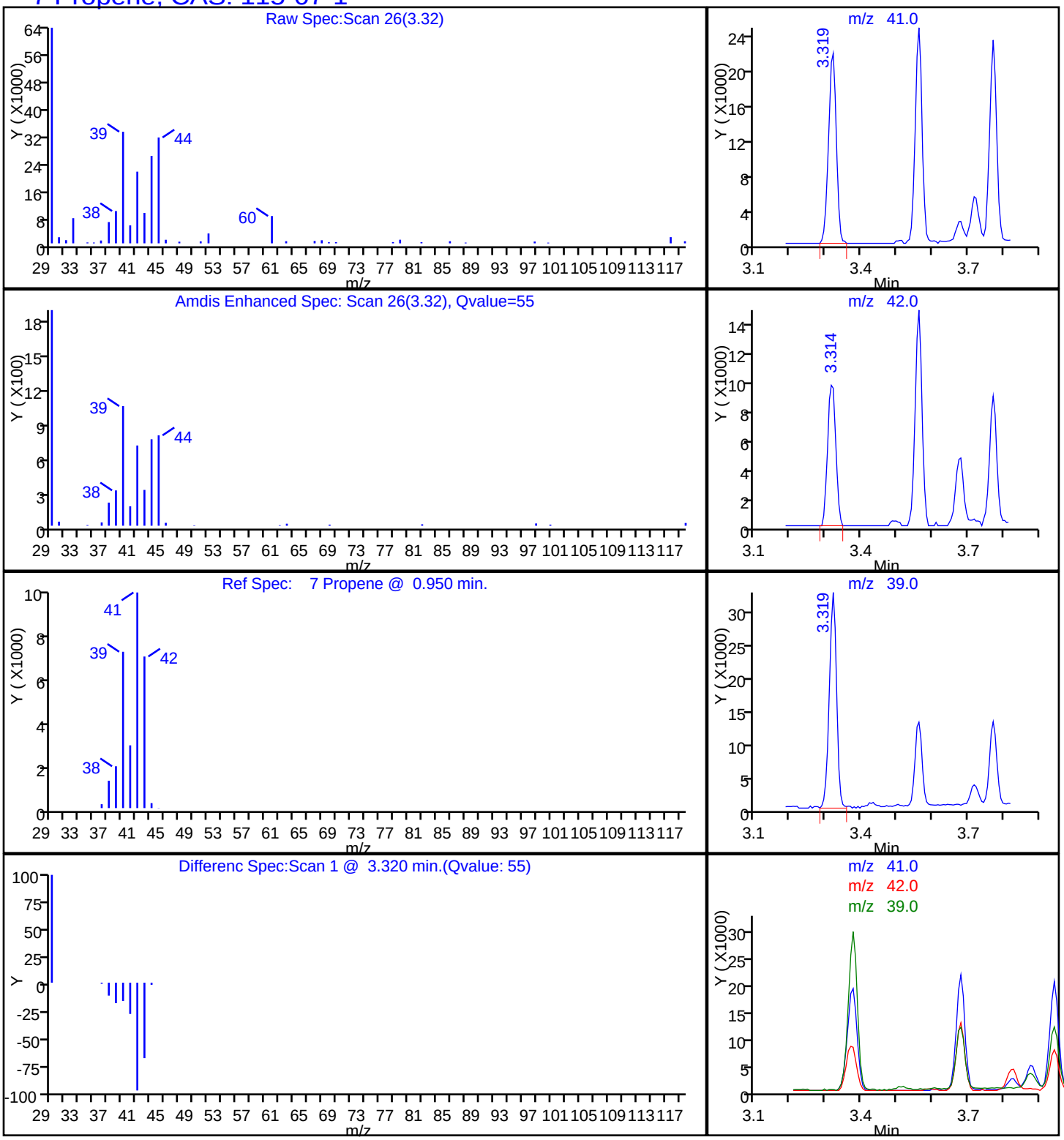
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



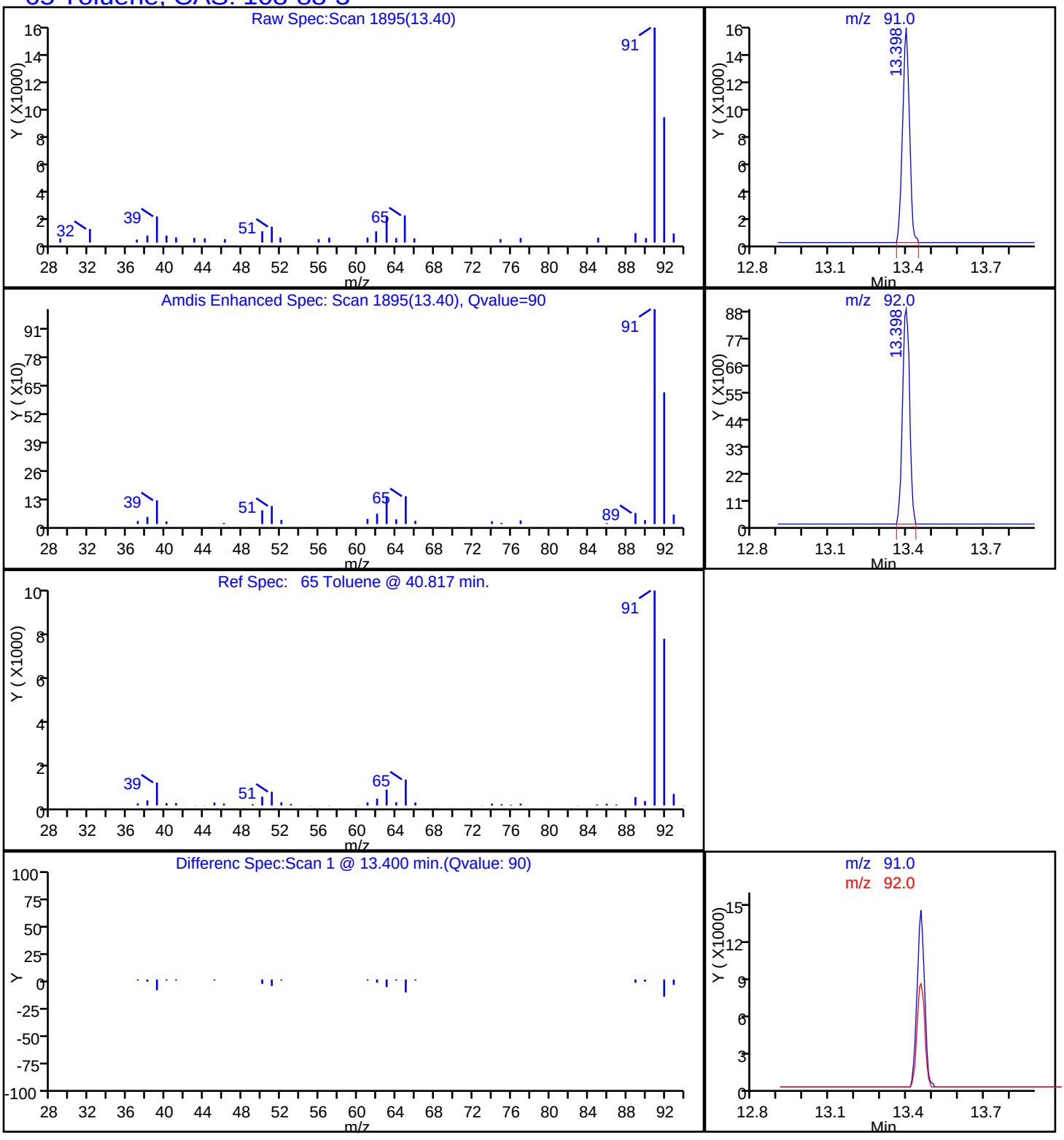
Report Date: 14-Mar-2014 07:29:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



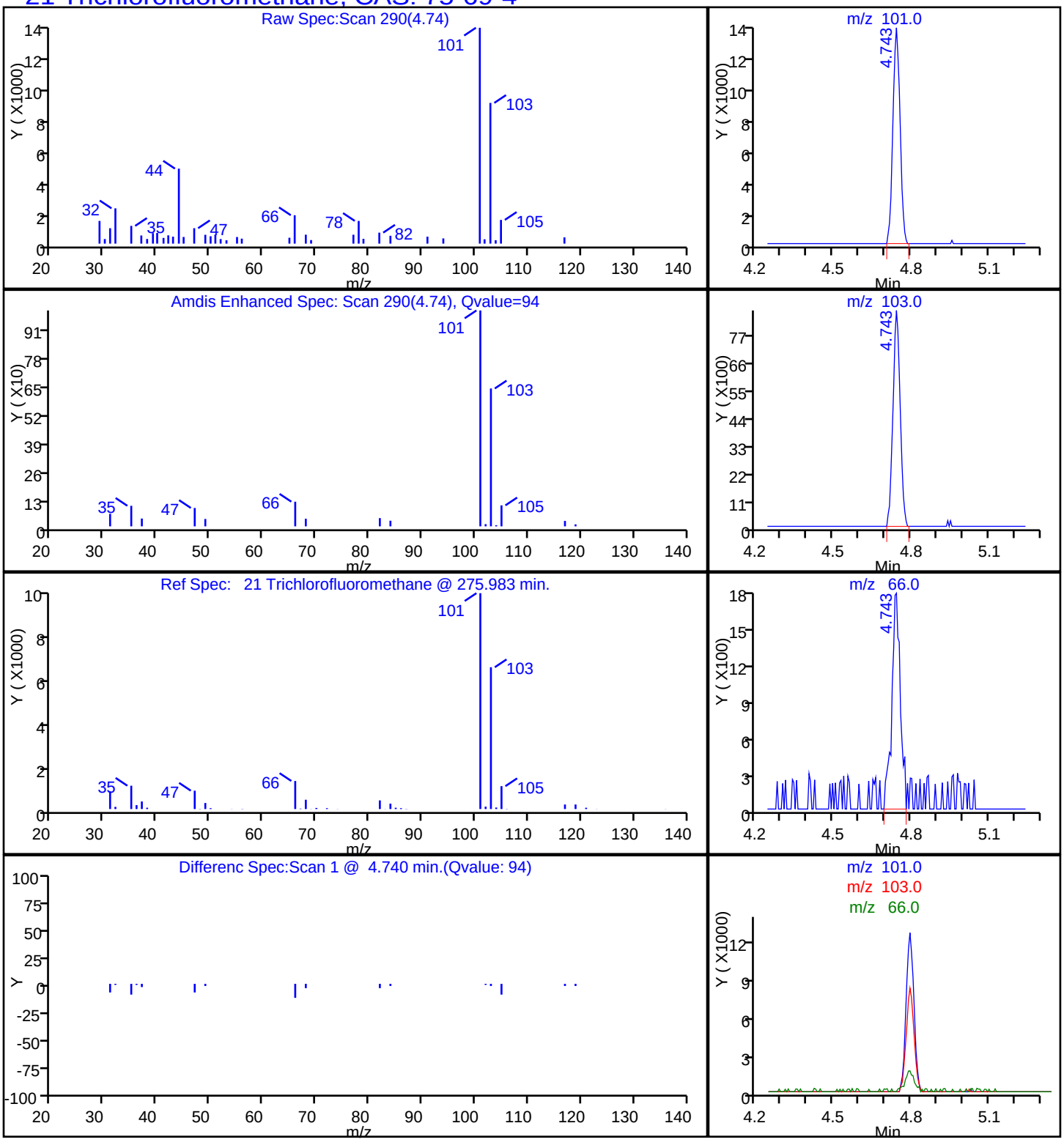
Report Date: 14-Mar-2014 07:29:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P116.D

Injection Date:	14-Mar-2014 03:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-10	Lab Sample ID:	140-1037-10		
Client ID:	PCV-IA3-B18				
Operator ID:	7126	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.060	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.081	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.36	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.62		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.11	J	0.50	0.045
67-64-1	Acetone	58.08	4.1	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.037	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.041	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.48	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	25		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.059	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.45	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.47		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.22		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.24		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.46	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.47	J	2.0	0.18
67-64-1	Acetone	58.08	9.7	J	12	3.3
71-43-2	Benzene	78.11	0.59	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.12	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.20	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	48		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.44	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.5	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.6	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	5.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	2.0		0.87	0.26
115-07-1	Propene	42.08	2.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.81		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IA1-B18 Lab Sample ID: 140-1037-11

Matrix: Air Lab File ID: EC13P201.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D
Lims ID: 140-1037-A-11 Lab Sample ID: 140-1037-11
Client ID: PCV-IA1-B18
Sample Type: Client
Inject. Date: 14-Mar-2014 04:01:30 ALS Bottle#: 1 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-11
Misc. Info.: E031314,TO155,,140-0000518-023
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:30:04 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:30:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	224357	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1106892	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	970147	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	873286	4.11	
	7 Propene	41	3.314	3.309	0.005	73	30914	0.5478	
	8 Dichlorodifluoromethane	85	3.357	3.357	0.0	95	48505	0.1954	
	9 Chloromethane	52	3.530	3.530	0.0	98	3832	0.1934	
	17 Ethanol	31	4.328	4.312	0.016	99	226606	10.1	
	19 2-Methylbutane	43	4.533	4.538	-0.005	88	19603	0.2495	
	21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	23666	0.0951	
	23 Acetone	58	4.873	4.878	-0.005	92	55543	1.63	
	24 Isopropyl alcohol	45	4.980	4.970	0.010	95	49619	0.5671	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	61	3700	0.0240	
	31 Methylene Chloride	84	5.784	5.789	-0.005	79	11479	0.1790	
	33 Carbon disulfide	76	5.935	5.940	-0.005	81	3482	0.0150	
	39 2-Butanone (MEK)	72	7.590	7.585	0.005	92	5269	0.1435	
	40 Hexane	56	7.580	7.585	-0.005	56	3001	0.0503	
	43 Chloroform	83	8.345	8.351	-0.006	5	3164	0.0165	
	48 Benzene	78	9.985	9.995	-0.010	91	16530	0.0742	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	89	5474	0.0256	
	54 n-Heptane	71	11.176	11.182	-0.006	64	1987	0.0236	
	62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	83	6034	0.0460	
	65 Toluene	91	13.393	13.403	-0.010	87	22394	0.0862	
	76 Ethylbenzene	91	15.722	15.722	0.0	95	30715	0.0922	
	78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	131047	0.5002	
	82 o-Xylene	91	16.407	16.412	-0.005	95	53097	0.1875	
	93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	75	9687	0.0325	

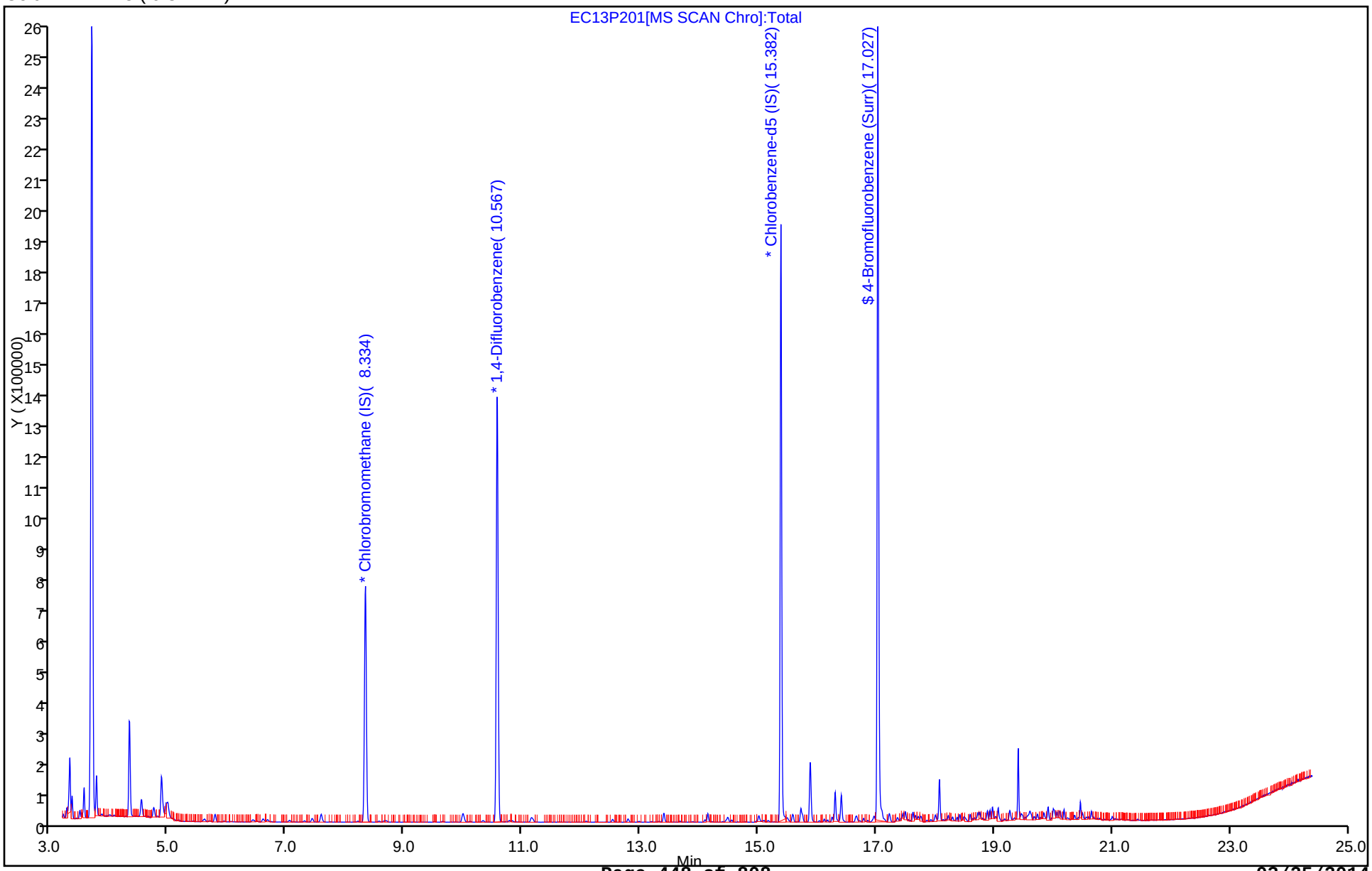
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

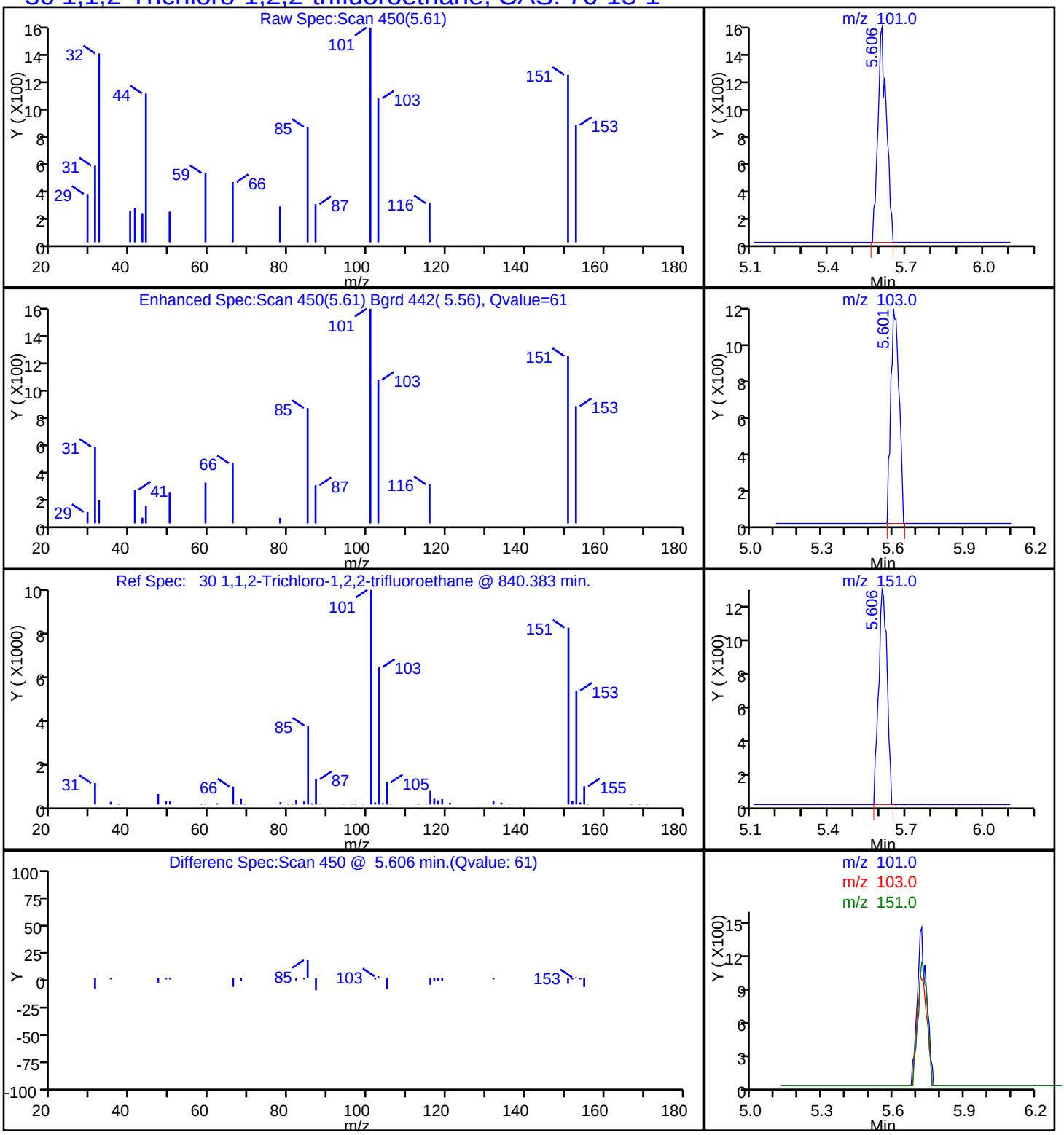
Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11	Worklist Smp#:	23
Client ID:	PCV-IA1-B18				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D
Injection Date: 14-Mar-2014 04:01:30 Instrument ID: ME
Lims ID: 140-1037-A-11 Lab Sample ID: 140-1037-11
Client ID: PCV-IA1-B18
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



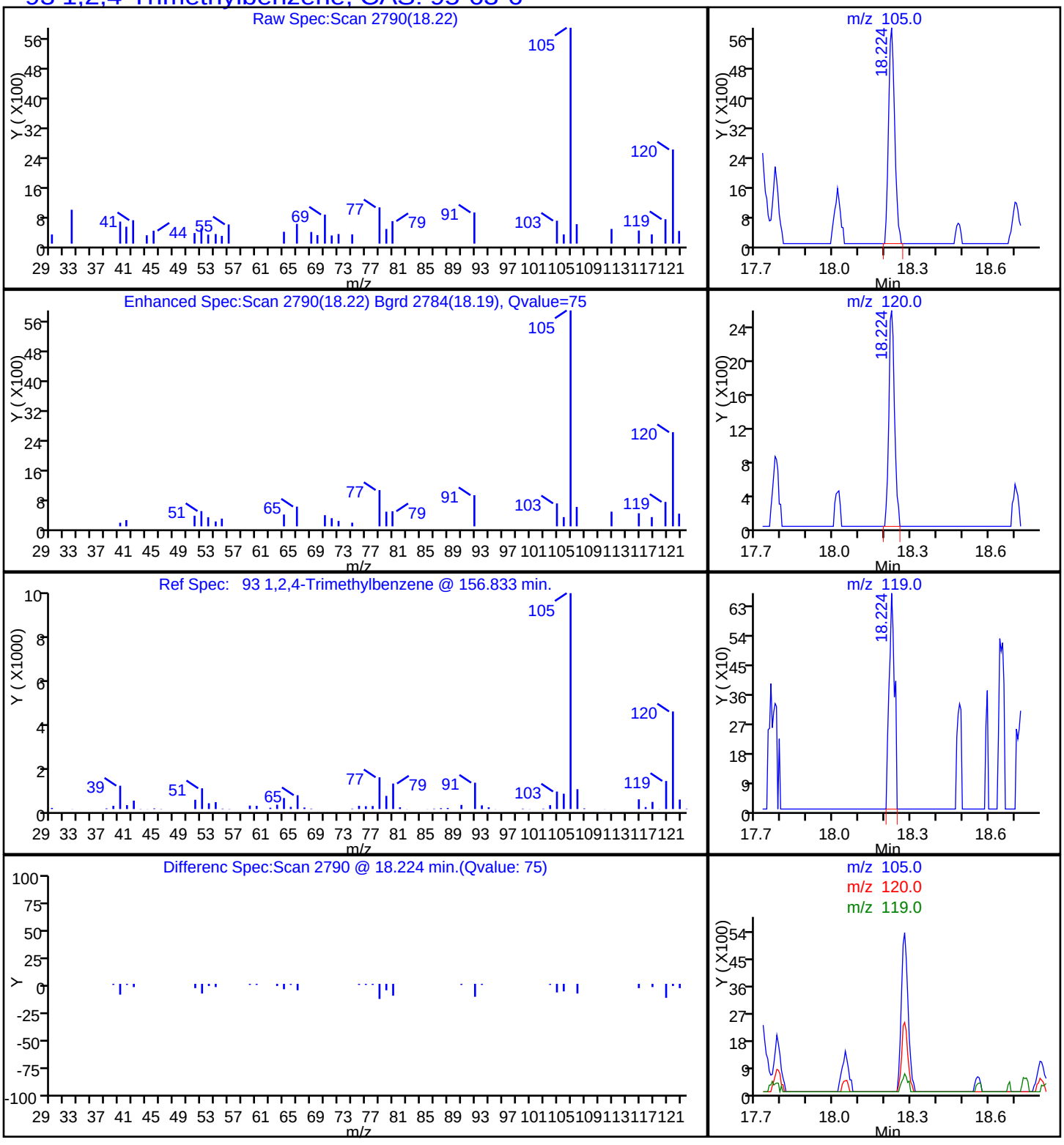
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11		
Client ID:	PCV-IA1-B18				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



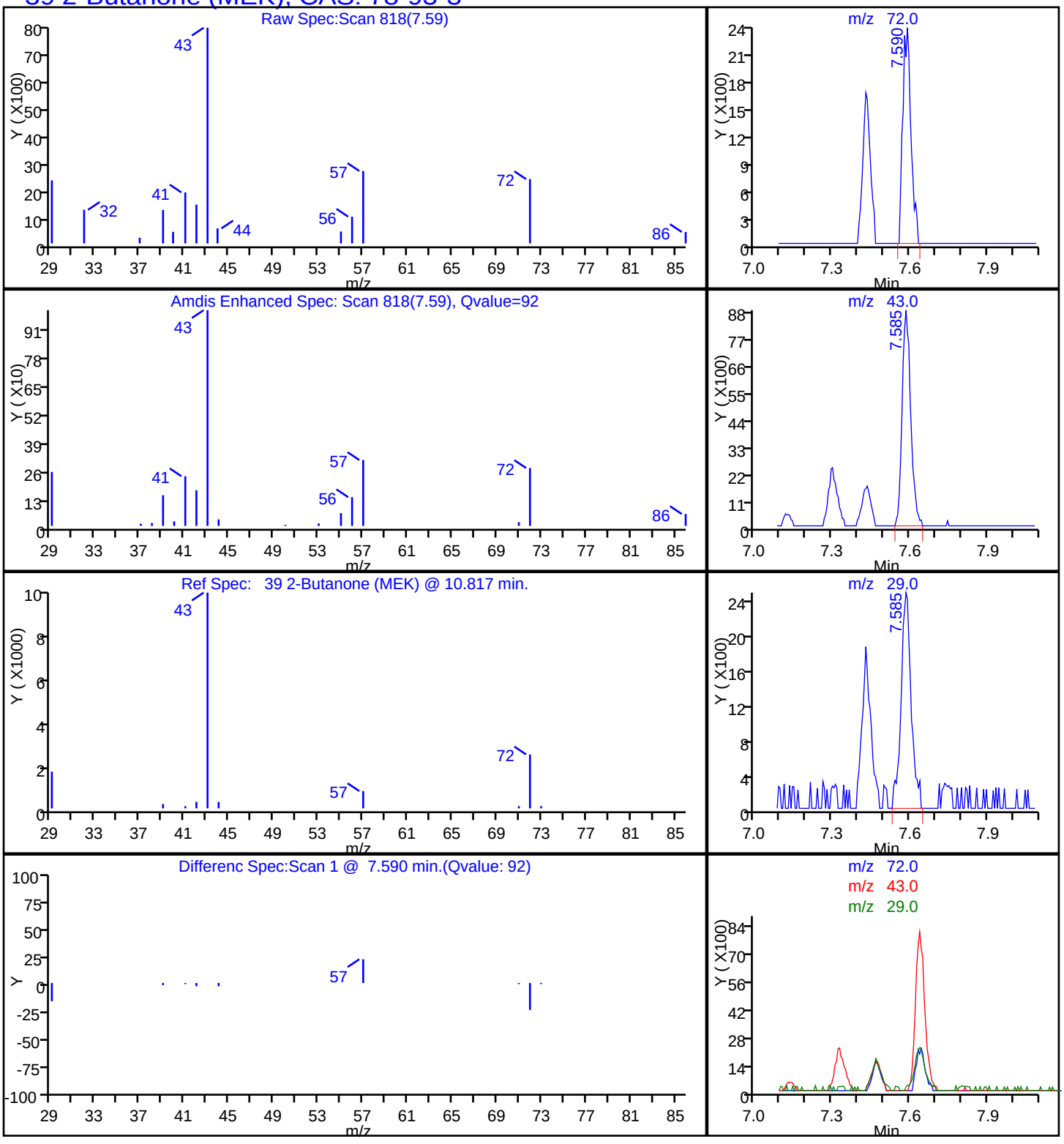
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



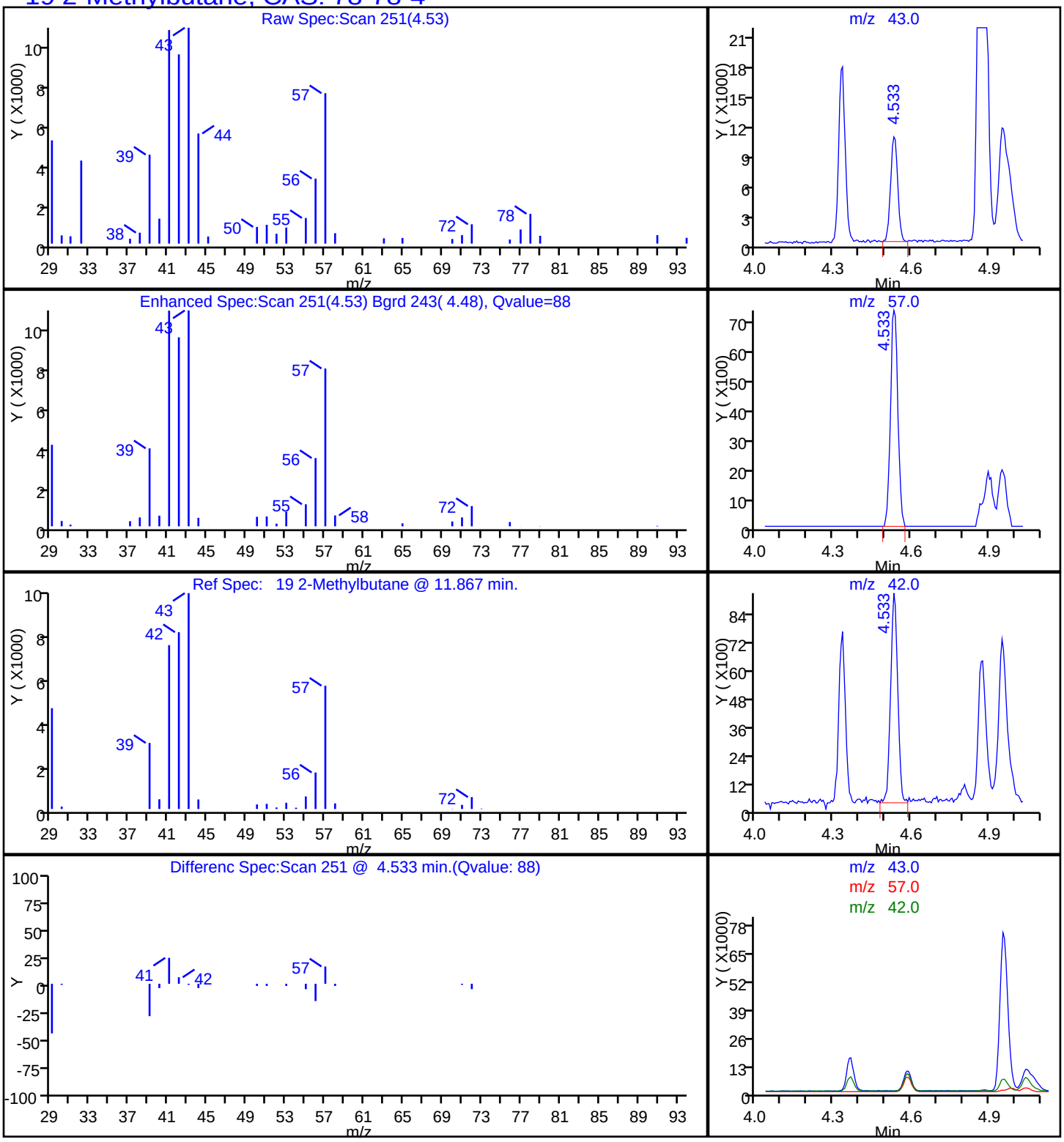
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



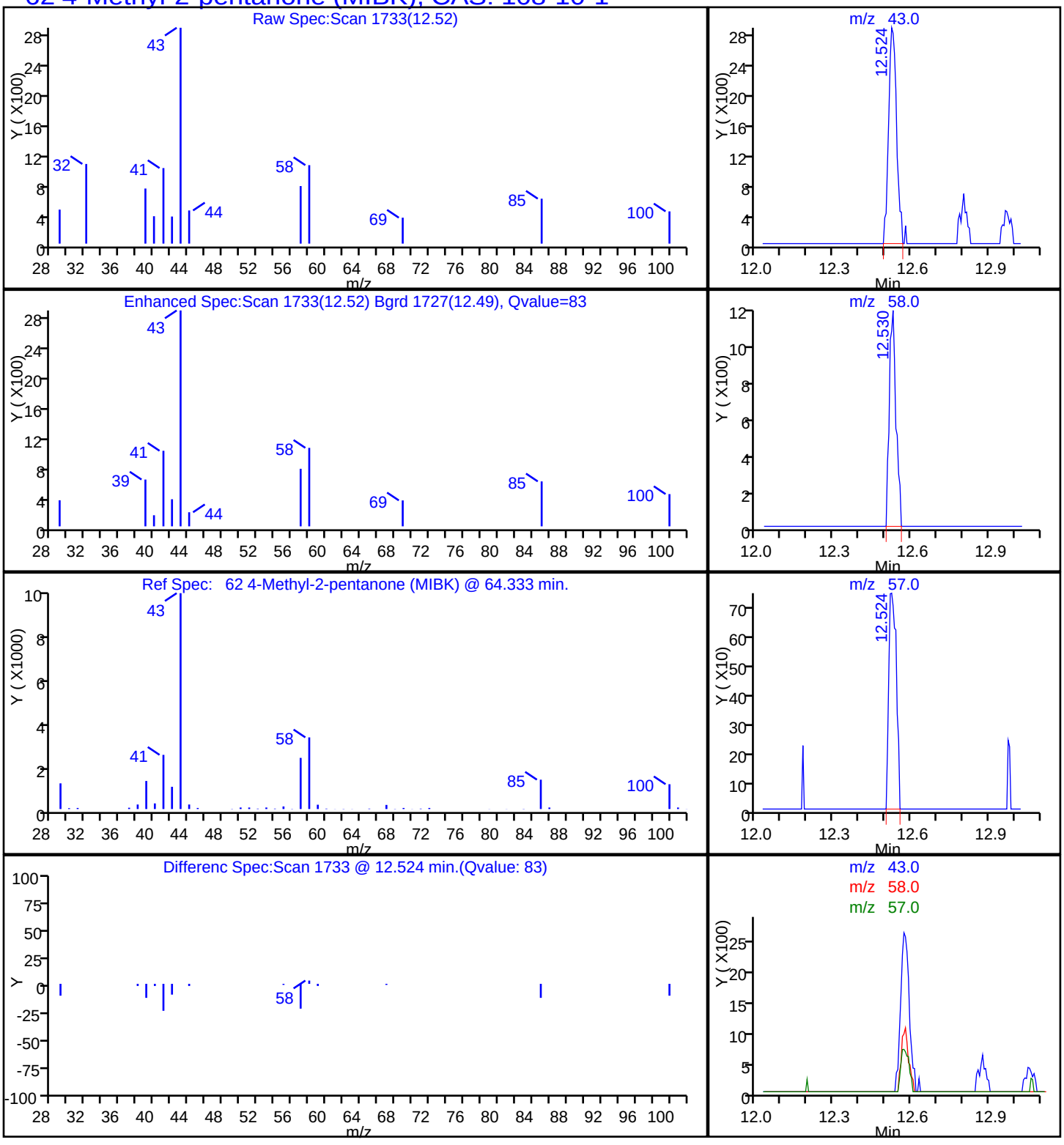
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



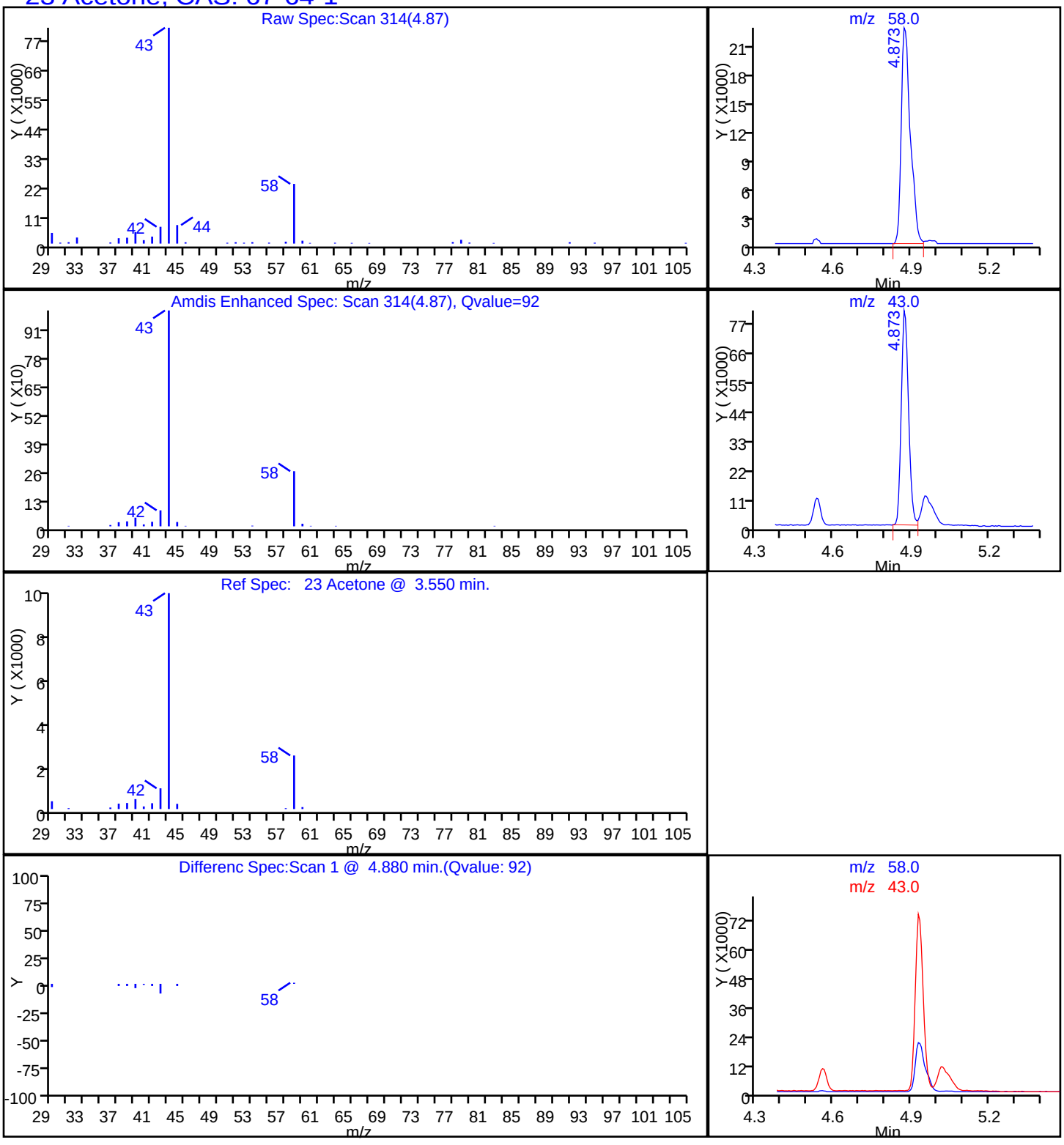
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



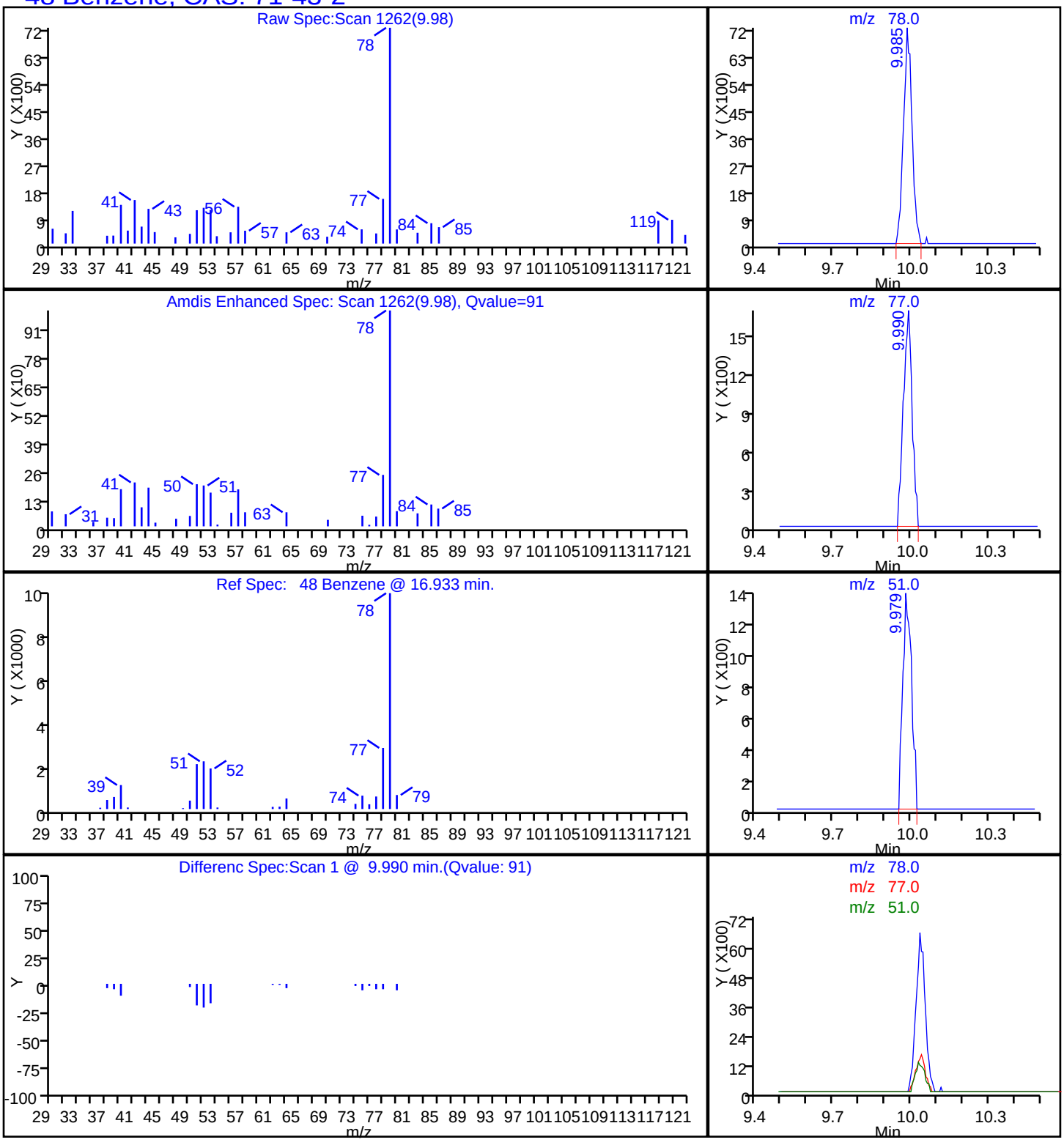
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



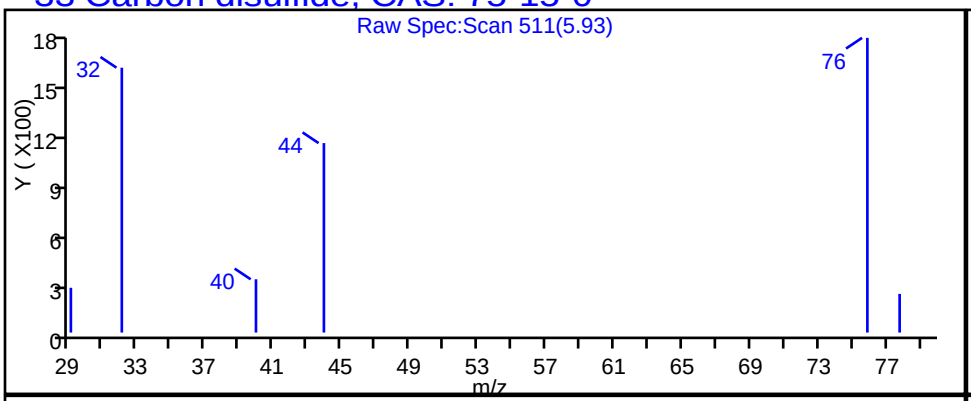
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

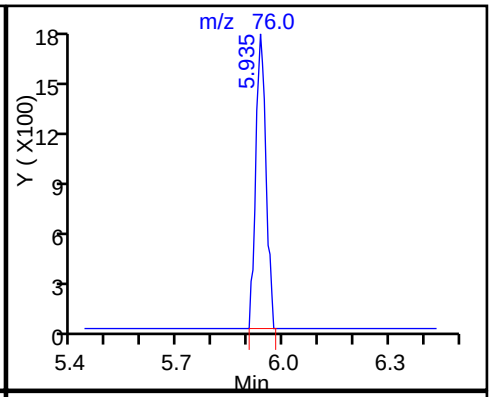
TestAmerica Knoxville

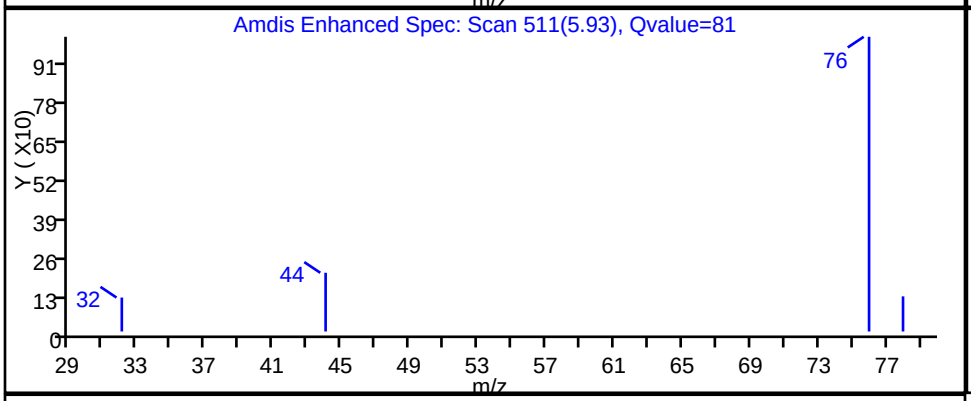
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

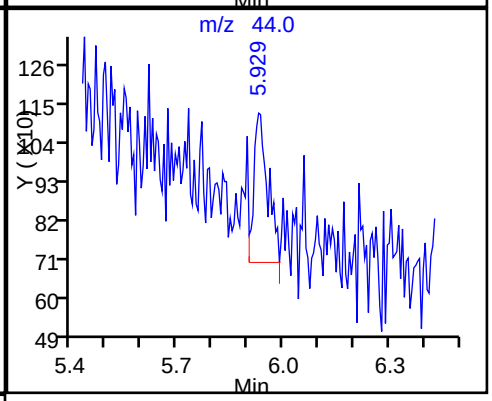
Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

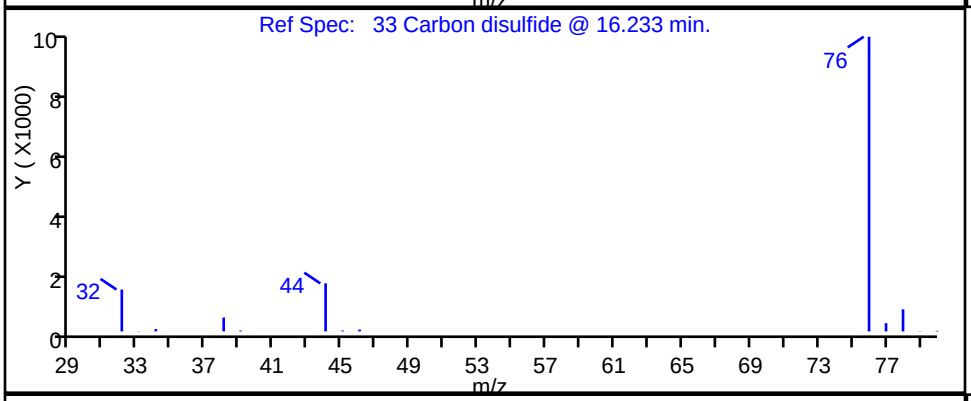
33 Carbon disulfide, CAS: 75-15-0

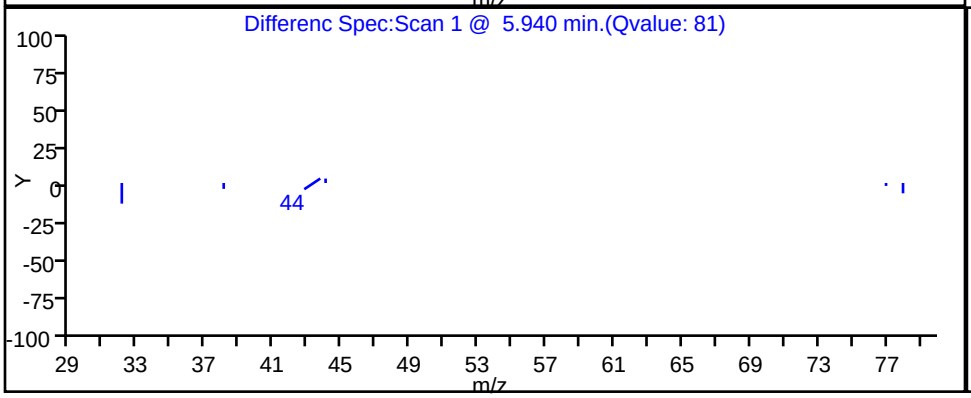


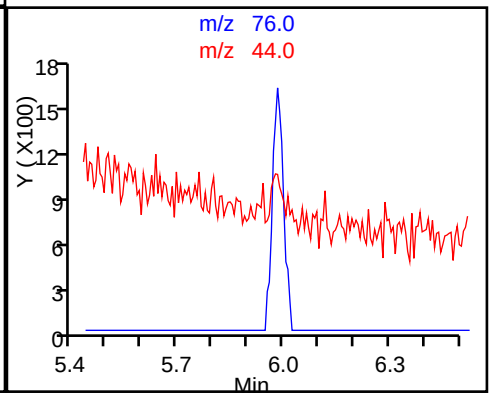












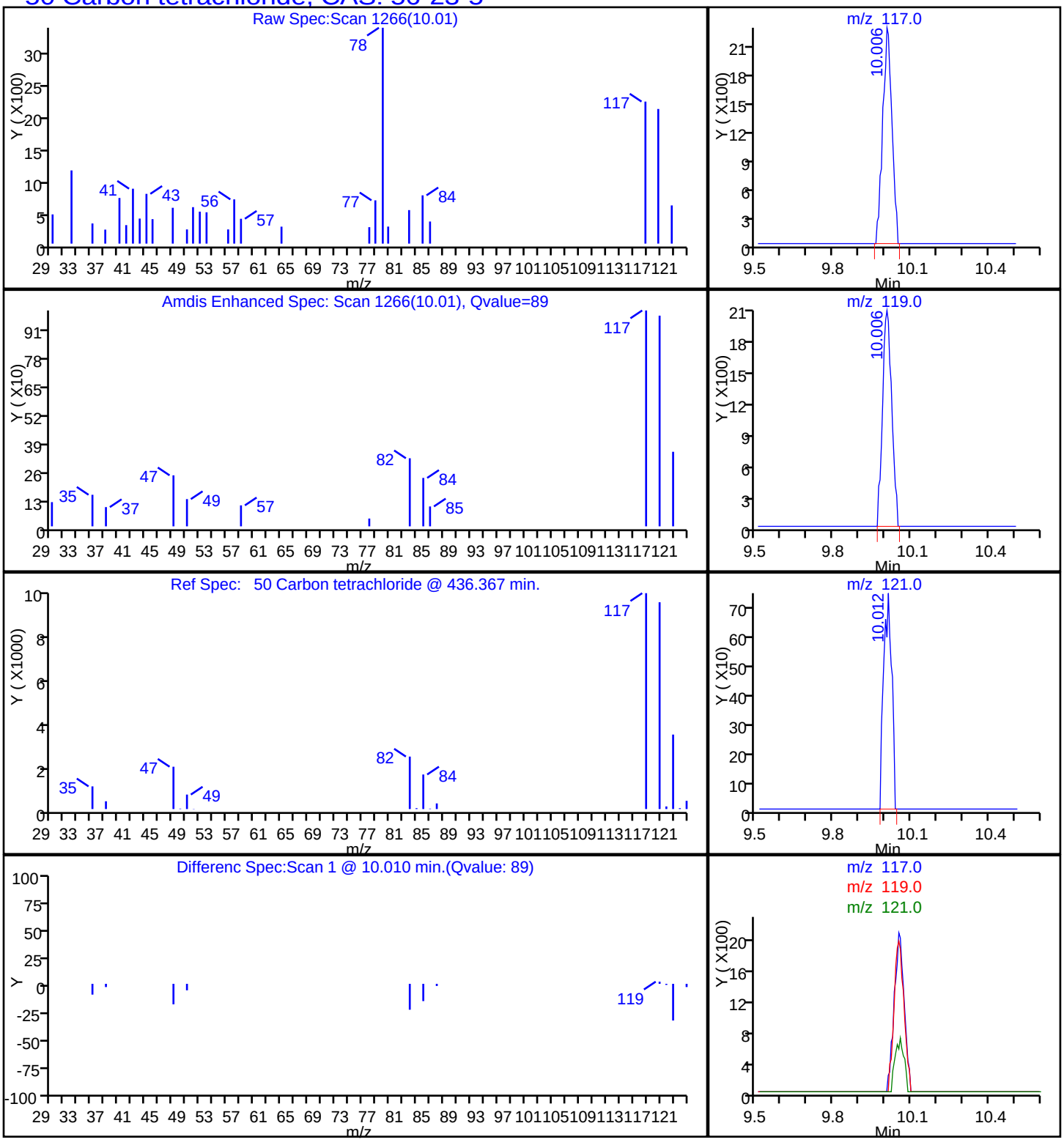
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



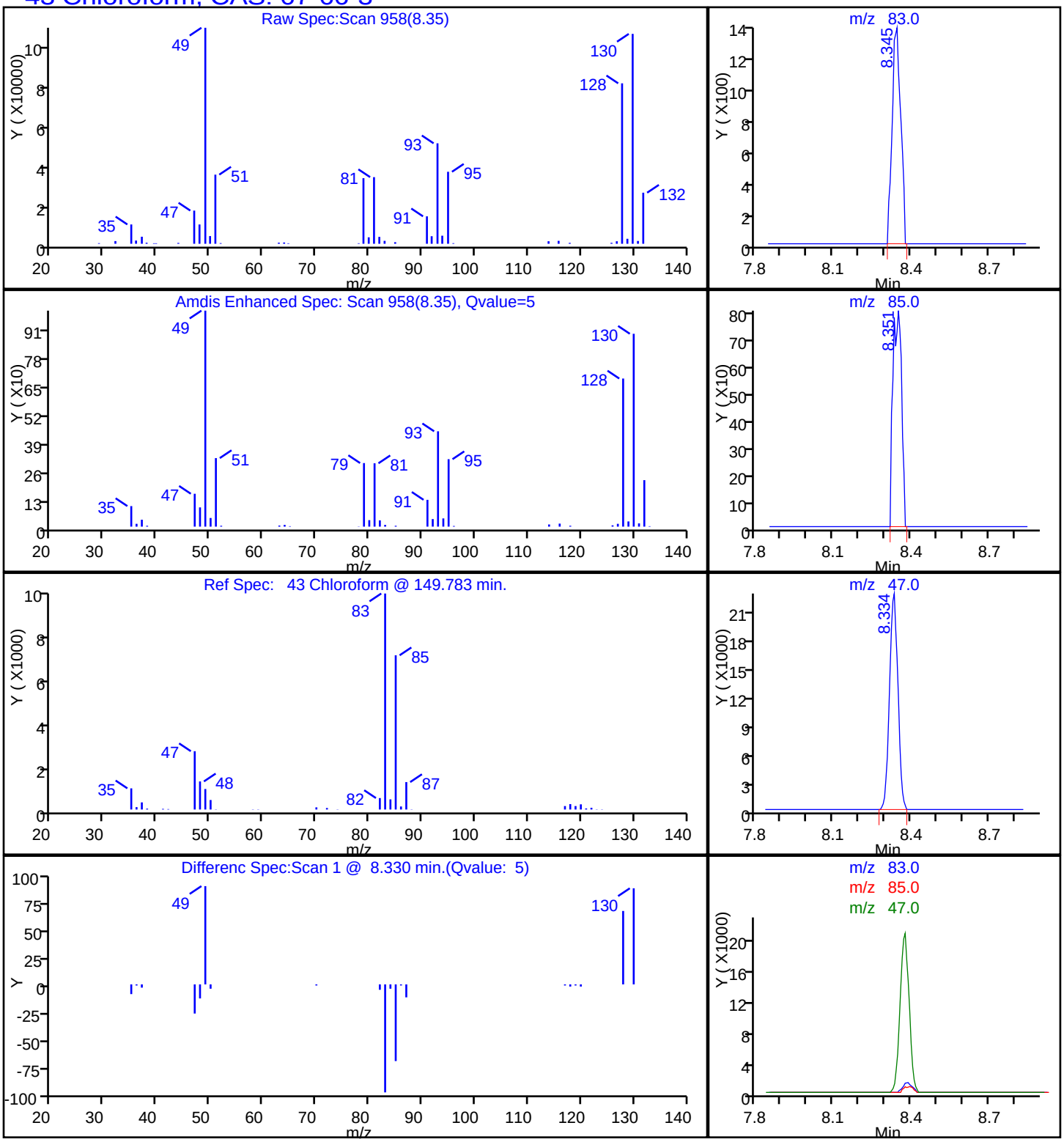
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11		
Client ID:	PCV-IA1-B18				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



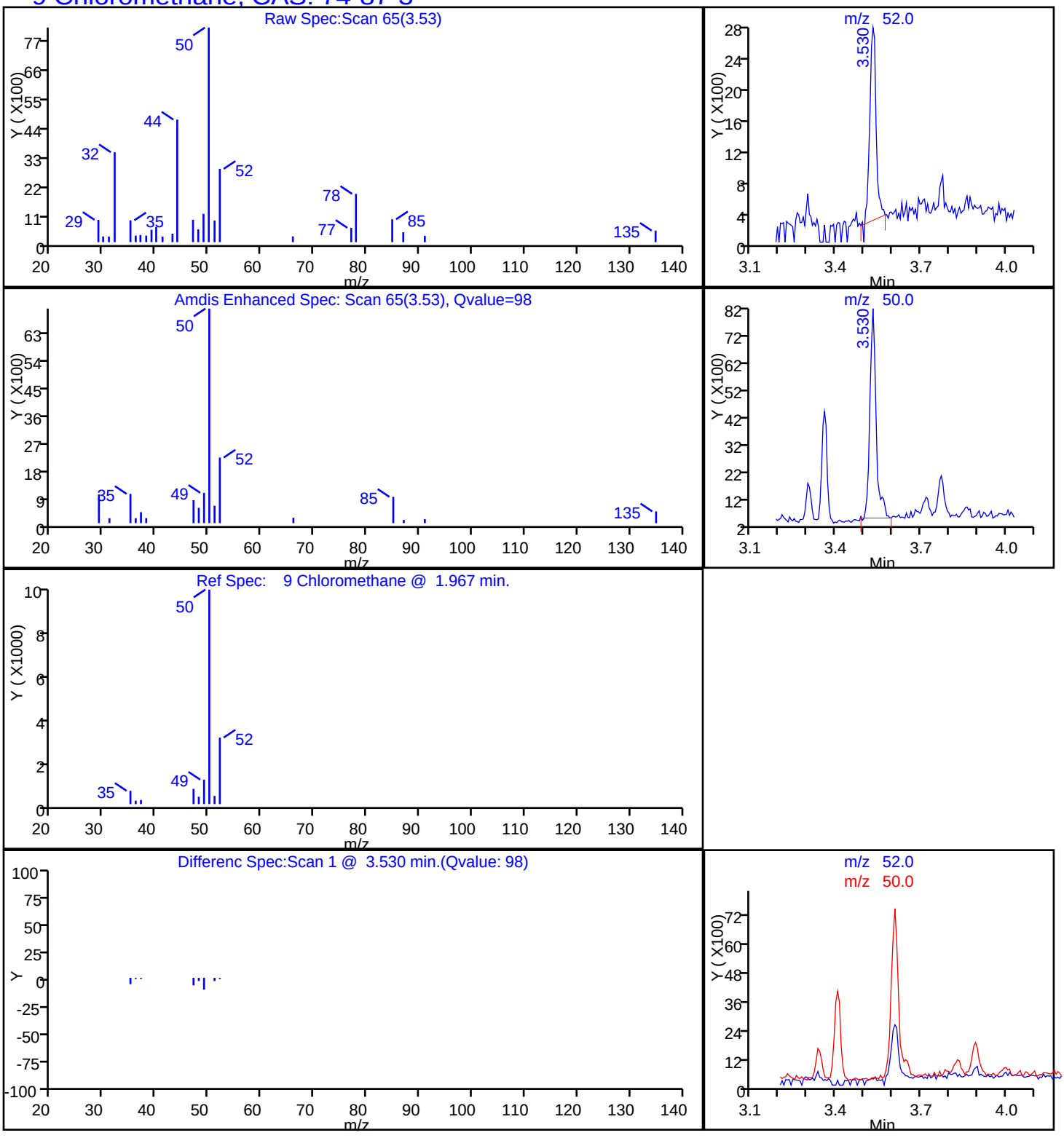
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

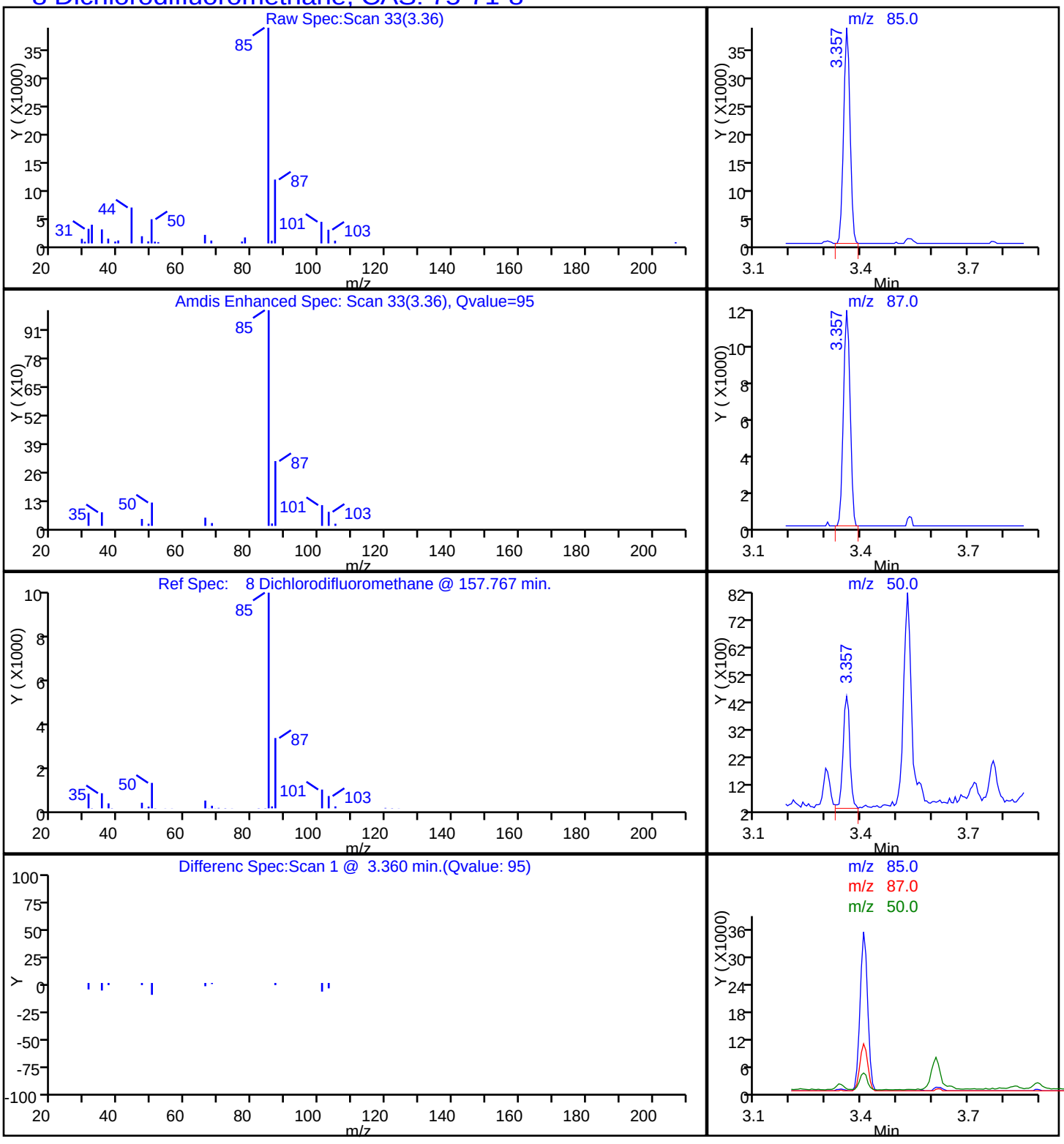
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D		
Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



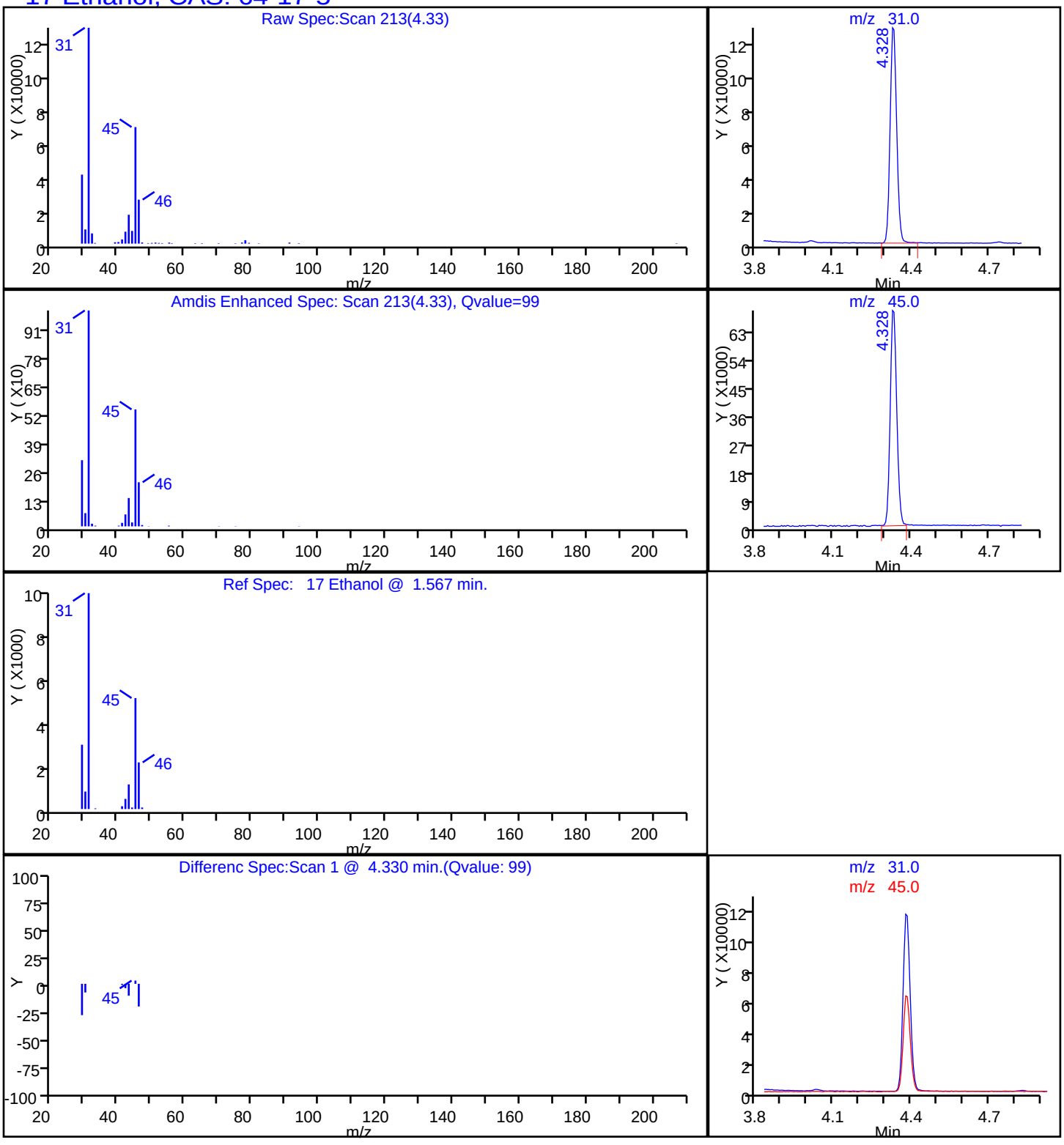
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



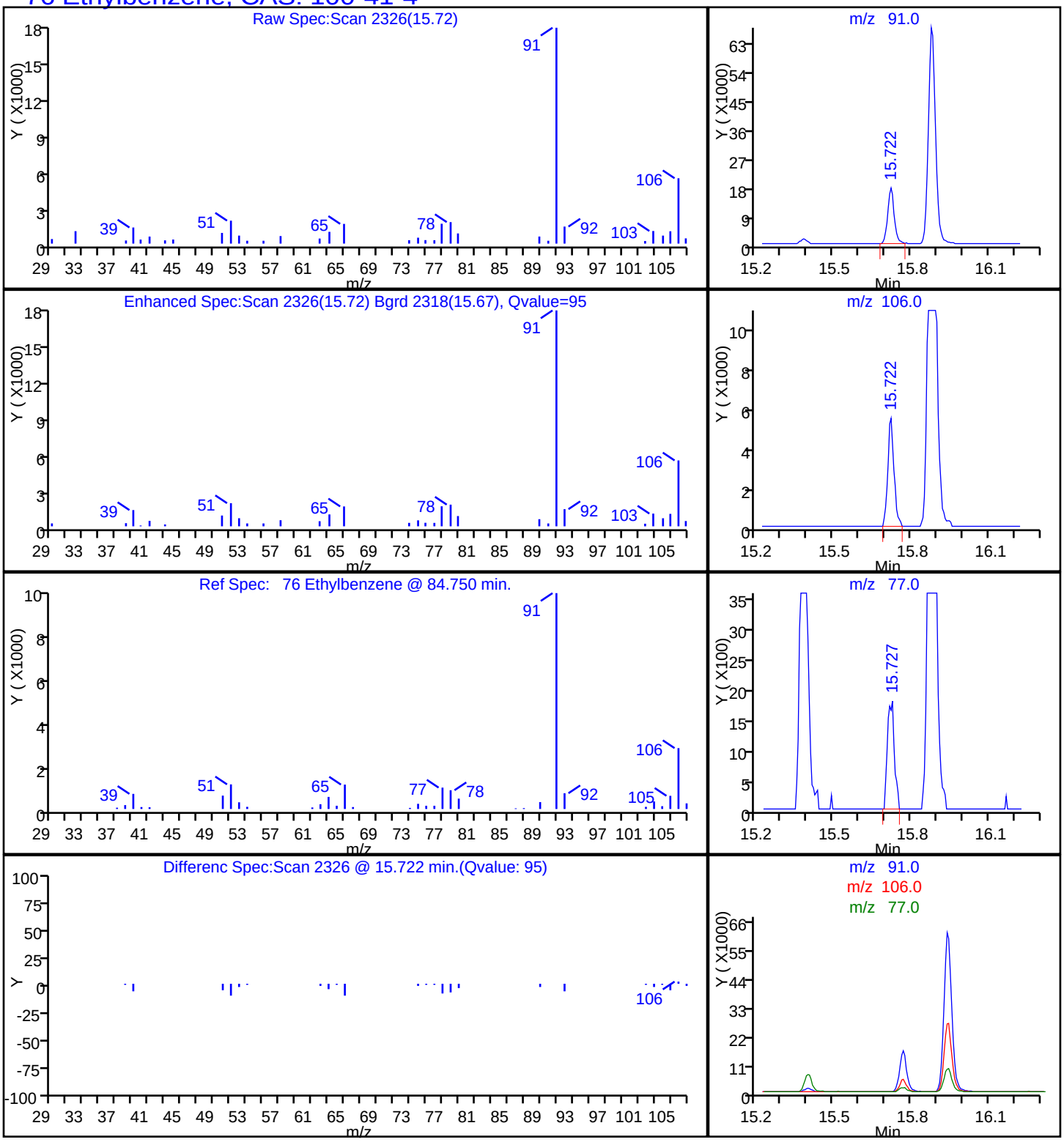
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11		
Client ID:	PCV-IA1-B18				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



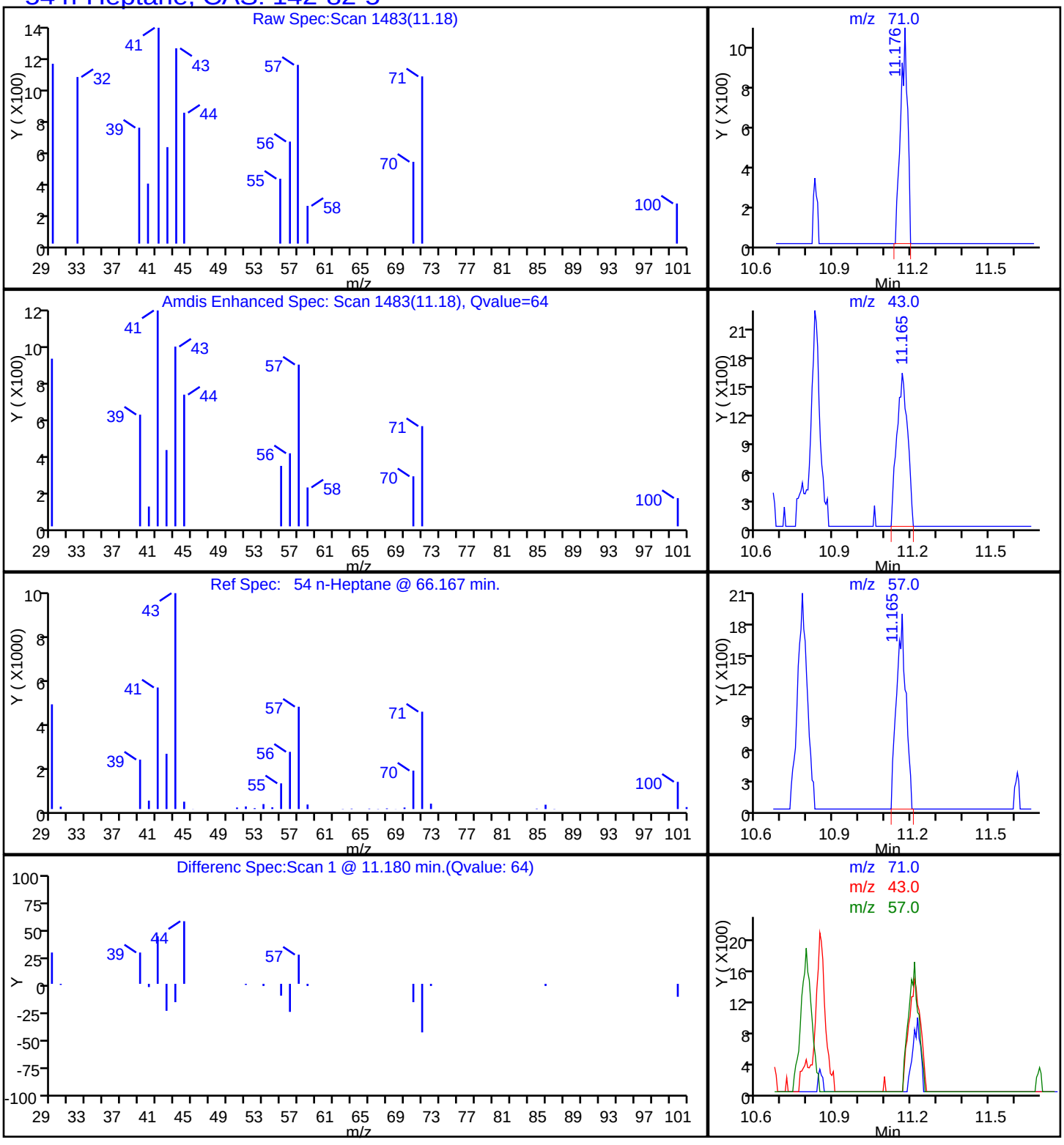
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



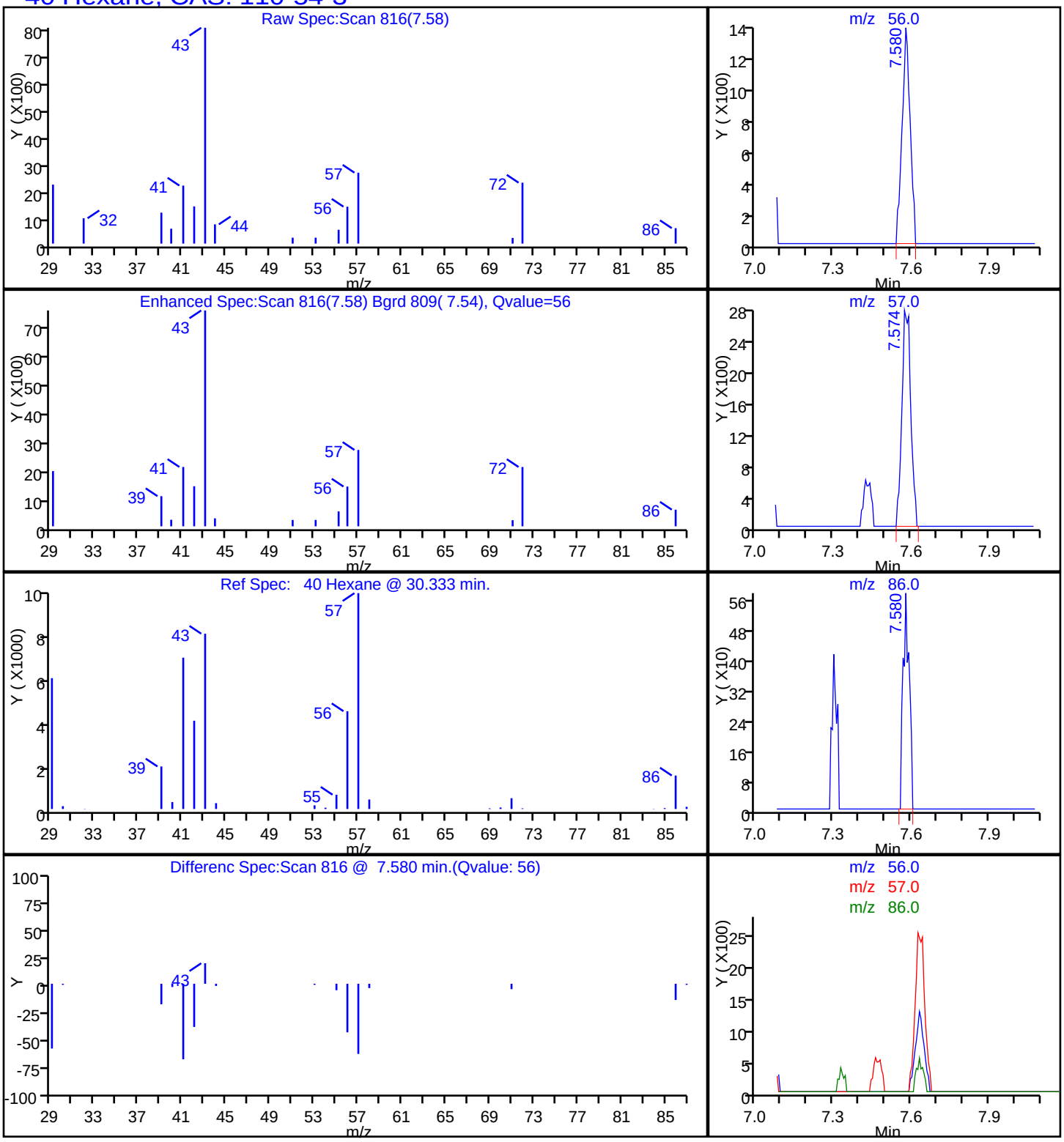
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



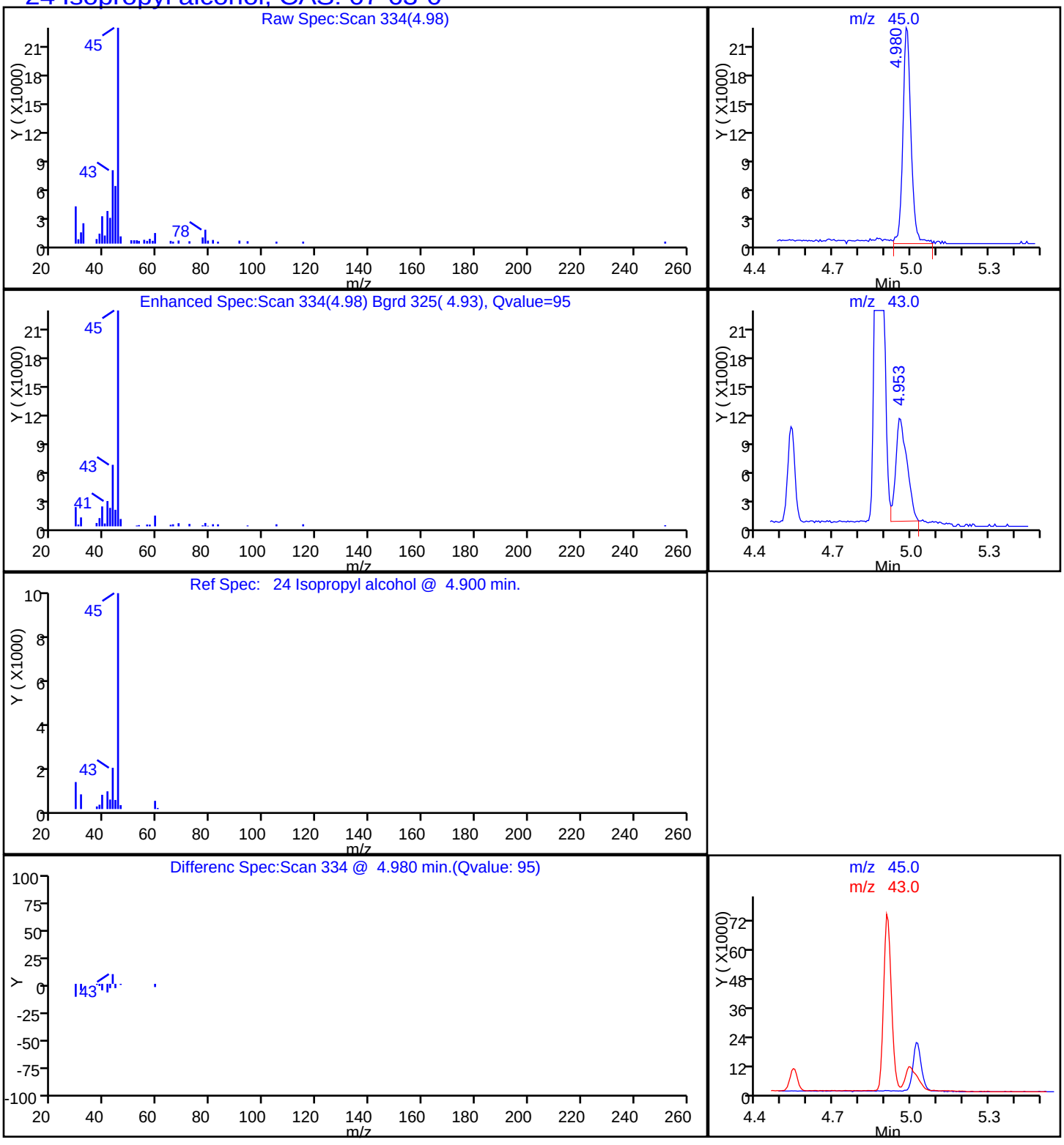
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



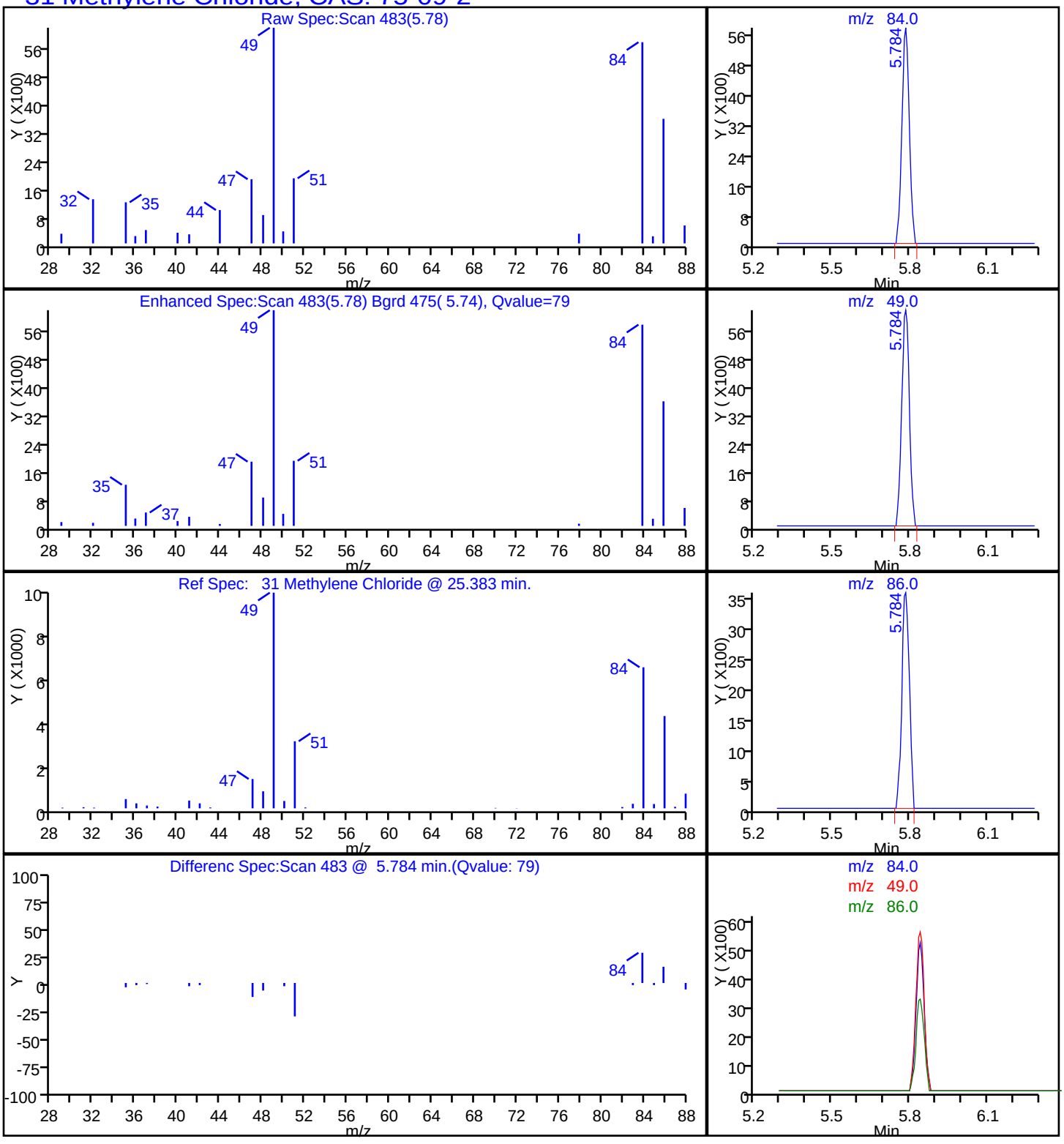
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



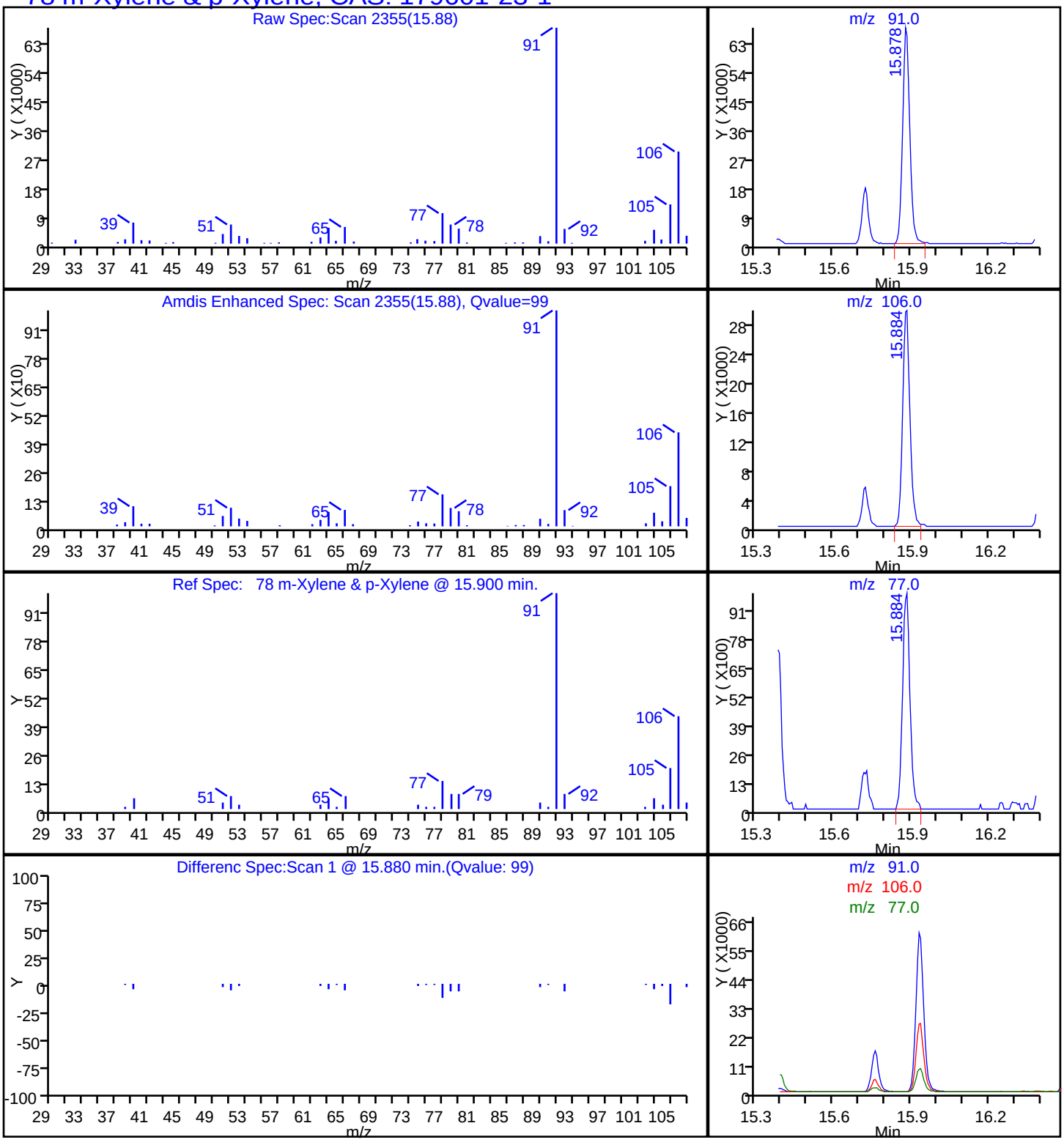
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11		
Client ID:	PCV-IA1-B18				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

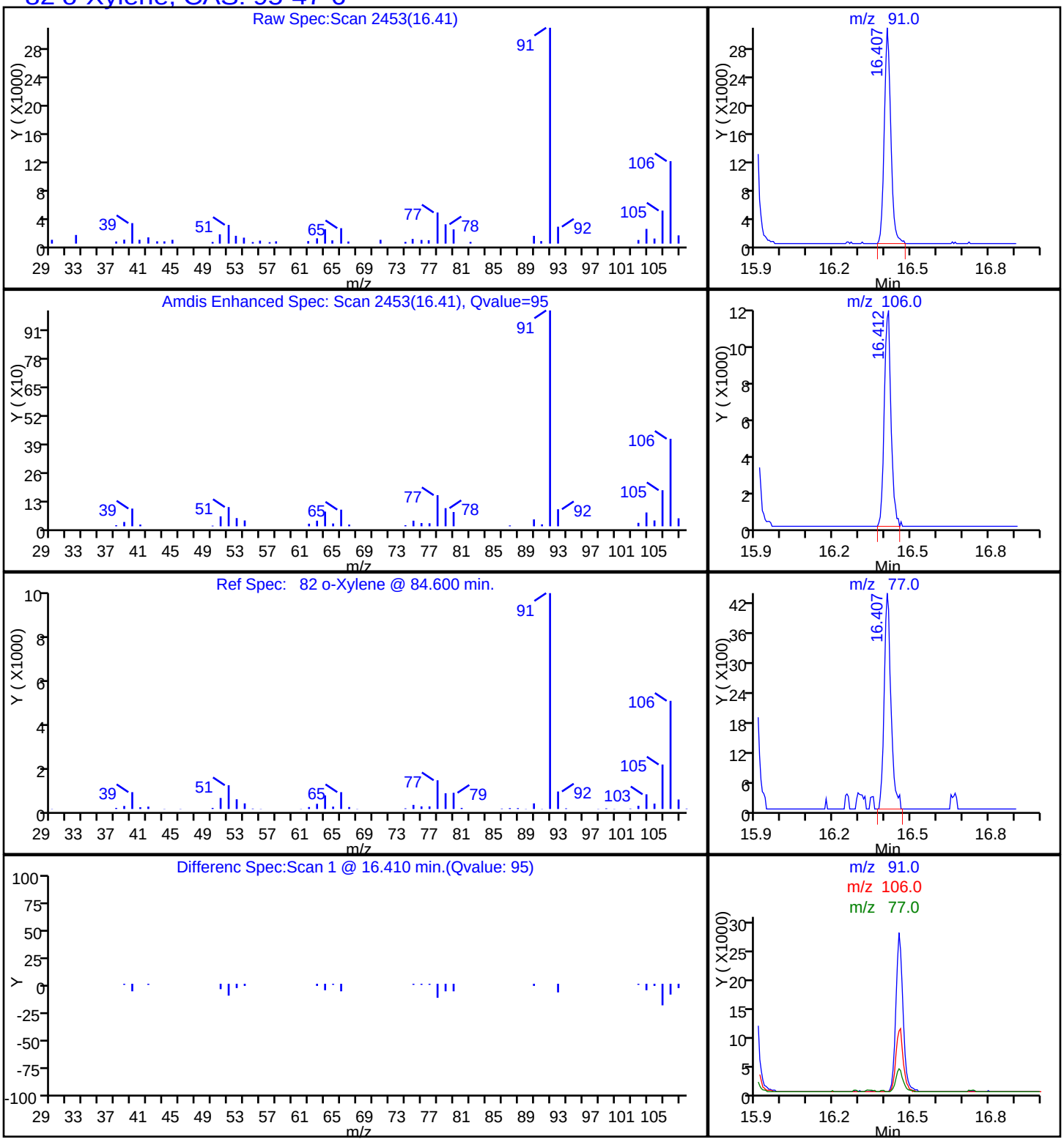
78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D		
Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date: 14-Mar-2014 04:01:30 Instrument ID: ME

Lims ID: 140-1037-A-11 Lab Sample ID: 140-1037-11

Client ID: PCV-IA1-B18

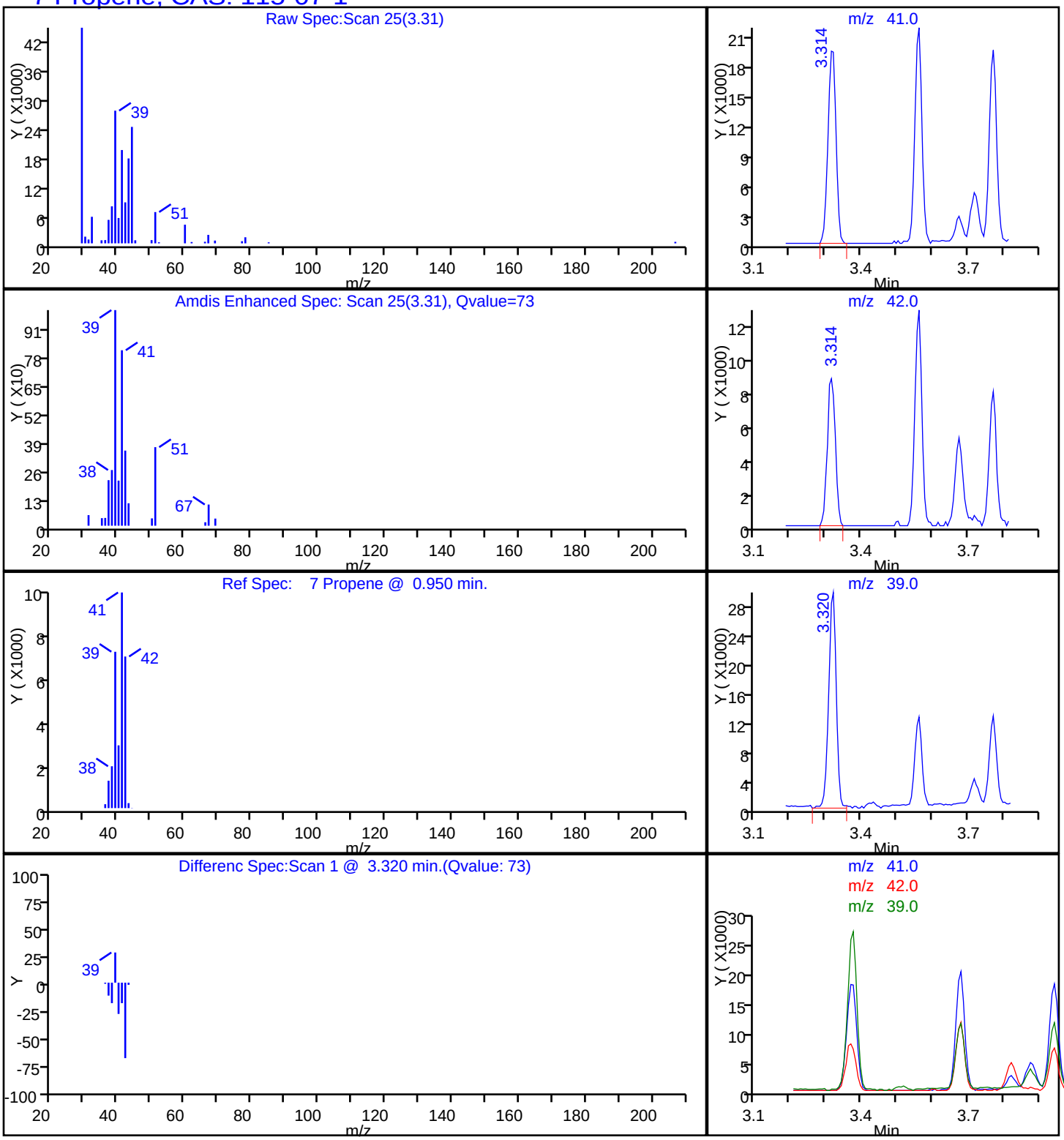
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



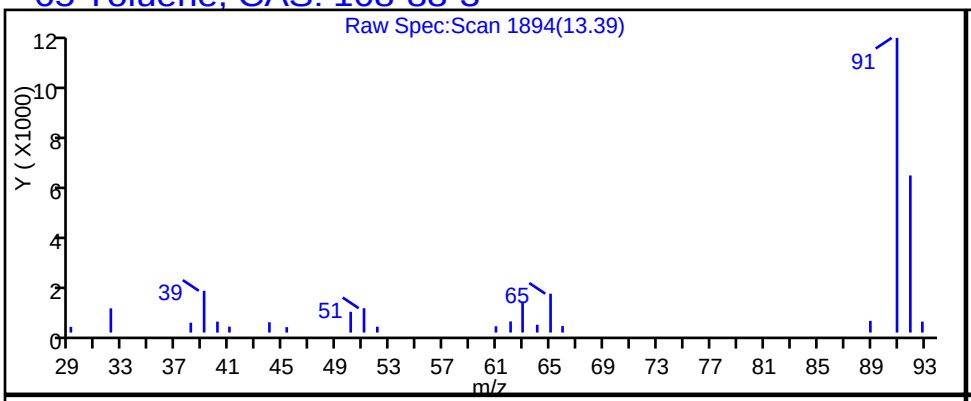
Report Date: 14-Mar-2014 07:30:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

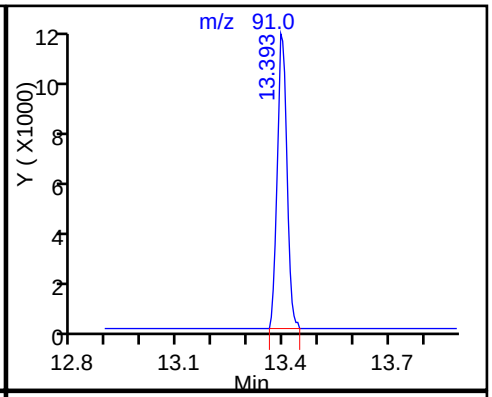
TestAmerica Knoxville

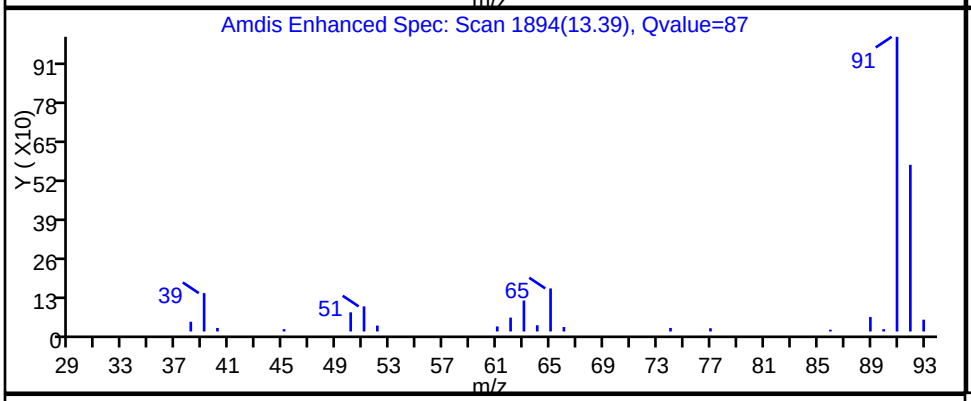
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

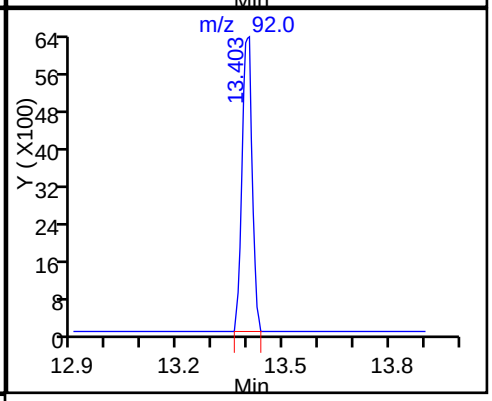
Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME		
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11		
Client ID:	PCV-IA1-B18				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

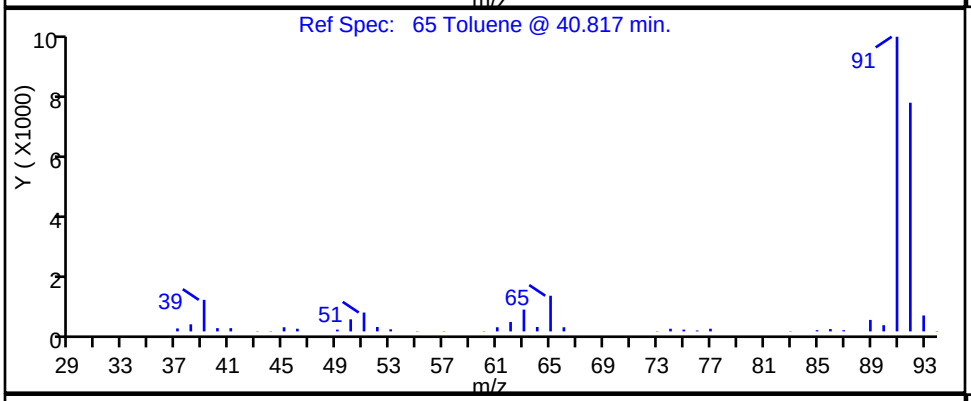
65 Toluene, CAS: 108-88-3

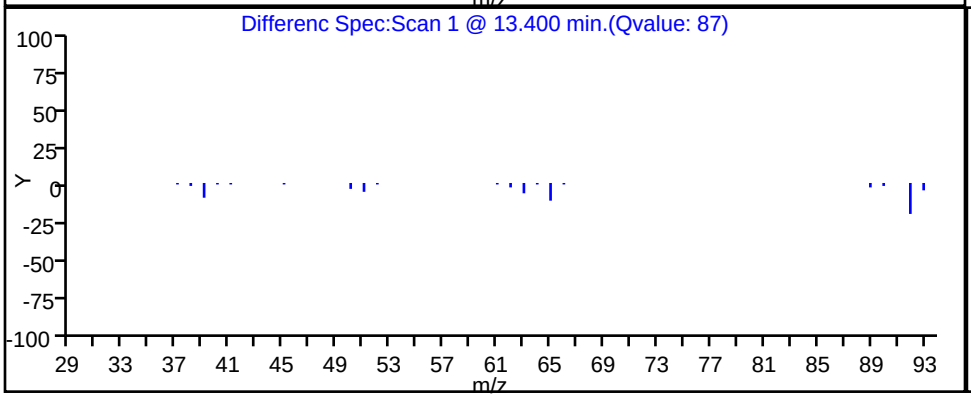


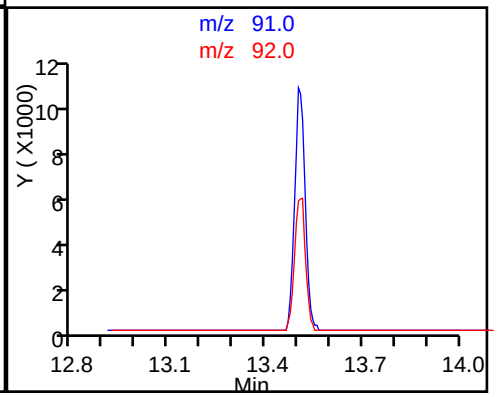












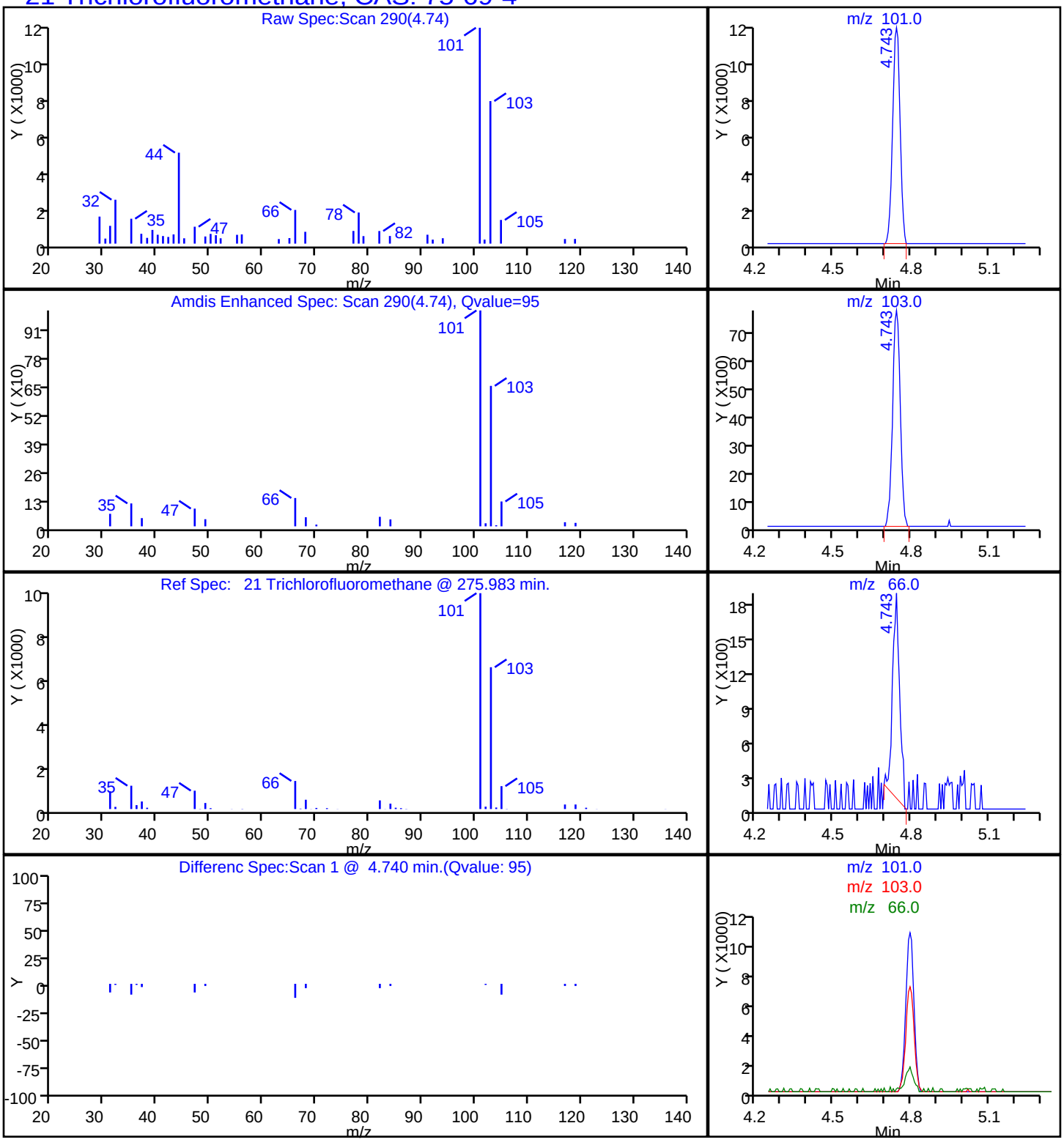
Report Date: 14-Mar-2014 07:30:04 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P201.D

Injection Date:	14-Mar-2014 04:01:30	Instrument ID:	ME
Lims ID:	140-1037-A-11	Lab Sample ID:	140-1037-11
Client ID:	PCV-IA1-B18		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 Lab Sample ID: 140-1037-12

Matrix: Air Lab File ID: EC13P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.67		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.10	J	0.50	0.045
67-64-1	Acetone	58.08	2.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 Lab Sample ID: 140-1037-12

Matrix: Air Lab File ID: EC13P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.045	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.65		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	25		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.27		0.20	0.068
142-82-5	Heptane	100.21	0.058	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.50		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.56		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.22		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.24		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 Lab Sample ID: 140-1037-12

Matrix: Air Lab File ID: EC13P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 | Lab Sample ID: 140-1037-12

Matrix: Air | Lab File ID: EC13P202.D

Analysis Method: TO-15 | Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) | Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 951 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.43	J	2.0	0.18
67-64-1	Acetone	58.08	6.3	J	12	3.3
71-43-2	Benzene	78.11	0.61	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 Lab Sample ID: 140-1037-12

Matrix: Air Lab File ID: EC13P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.22	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	47		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.2		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.47	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.9	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	6.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	2.4		0.87	0.26
115-07-1	Propene	42.08	2.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.84		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-IATC-B18 Lab Sample ID: 140-1037-12

Matrix: Air Lab File ID: EC13P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 04:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D
Lims ID: 140-1037-A-12 Lab Sample ID: 140-1037-12
Client ID: PCV-IATC-B18
Sample Type: Client
Inject. Date: 14-Mar-2014 04:46:30 ALS Bottle#: 2 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-12
Misc. Info.: E031314,TO155,,140-0000518-024
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:30:04 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:30:31

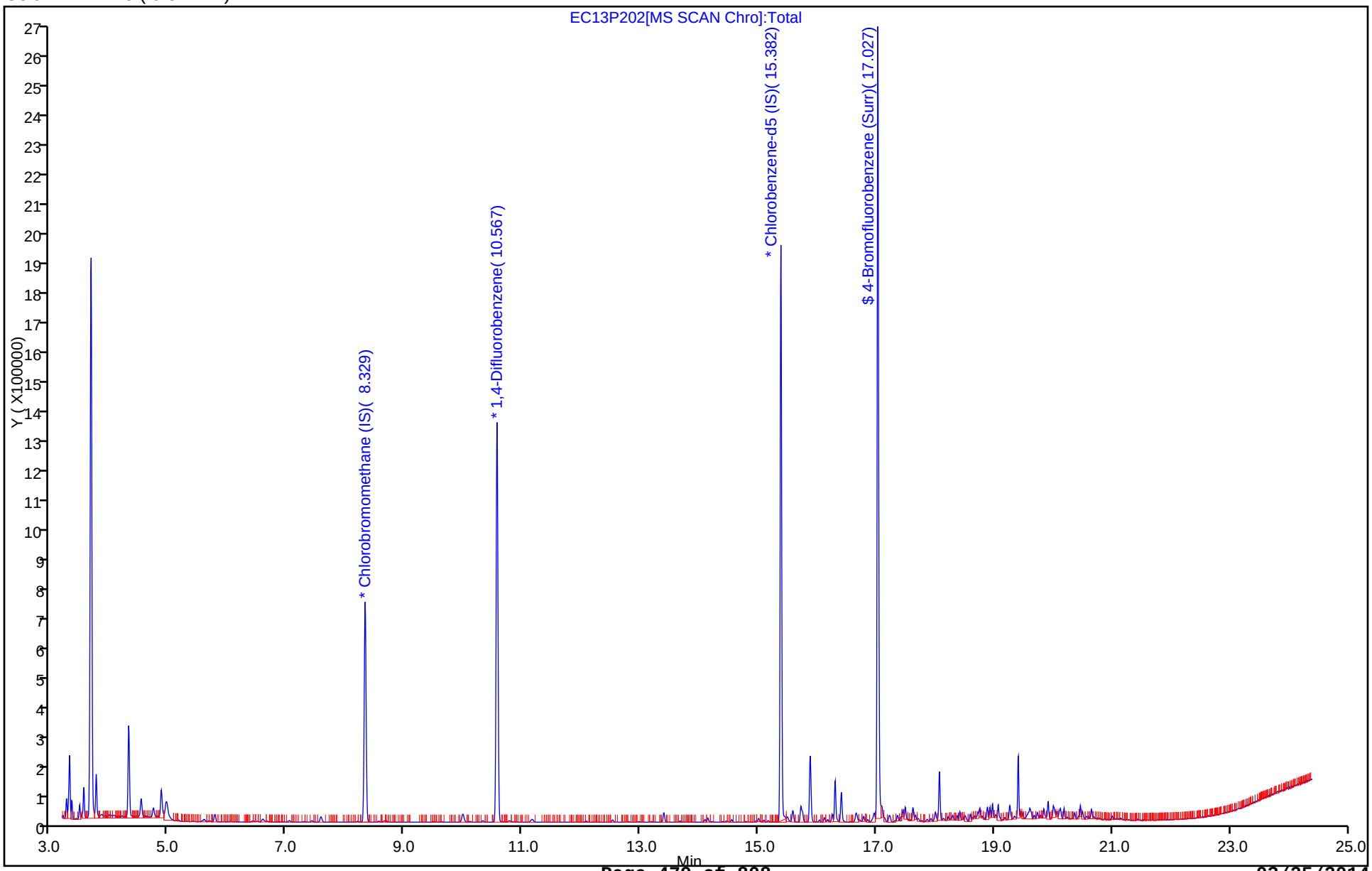
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	79	223040	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1090521	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	991944	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	923358	4.25	
7 Propene	41	3.314	3.309	0.005	54	31942	0.5693	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	43992	0.1783	
9 Chloromethane	52	3.524	3.530	-0.006	97	5107	0.2593	
17 Ethanol	31	4.317	4.312	0.005	98	223002	10.0	
19 2-Methylbutane	43	4.527	4.538	-0.011	86	21004	0.2689	
21 Trichlorofluoromethane	101	4.738	4.748	-0.010	95	23682	0.0957	
23 Acetone	58	4.873	4.878	-0.005	92	35833	1.06	
24 Isopropyl alcohol	45	4.970	4.970	0.0	90	41537	0.4776	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	64	4043	0.0264	
31 Methylene Chloride	84	5.784	5.789	-0.005	78	12654	0.1985	
40 Hexane	56	7.569	7.585	-0.016	66	3140	0.0529	
43 Chloroform	83	8.340	8.351	-0.011	5	3447	0.0180	
48 Benzene	78	9.985	9.995	-0.011	89	16892	0.0770	
50 Carbon tetrachloride	117	10.001	10.017	-0.016	86	5412	0.0257	
54 n-Heptane	71	11.176	11.182	-0.006	60	1921	0.0231	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	81	5424	0.0420	
65 Toluene	91	13.398	13.403	-0.005	86	23695	0.0892	
76 Ethylbenzene	91	15.722	15.722	0.0	98	37260	0.1094	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	151822	0.5668	
82 o-Xylene	91	16.407	16.412	-0.005	96	64681	0.2234	

Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

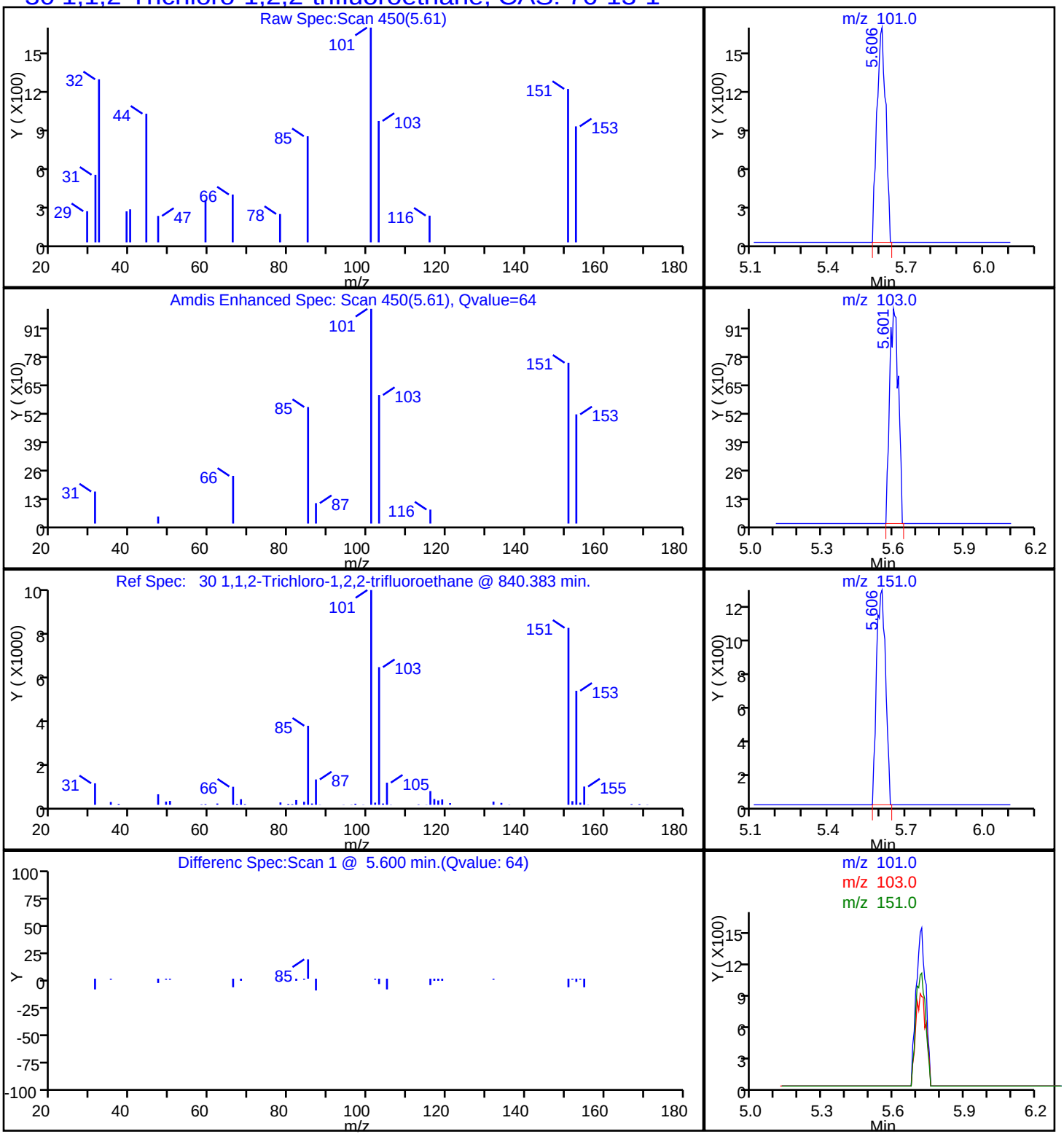
Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D				
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12	Worklist Smp#:	24
Client ID:	PCV-IATC-B18				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D
Injection Date: 14-Mar-2014 04:46:30 Instrument ID: ME
Lims ID: 140-1037-A-12 Lab Sample ID: 140-1037-12
Client ID: PCV-IATC-B18
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



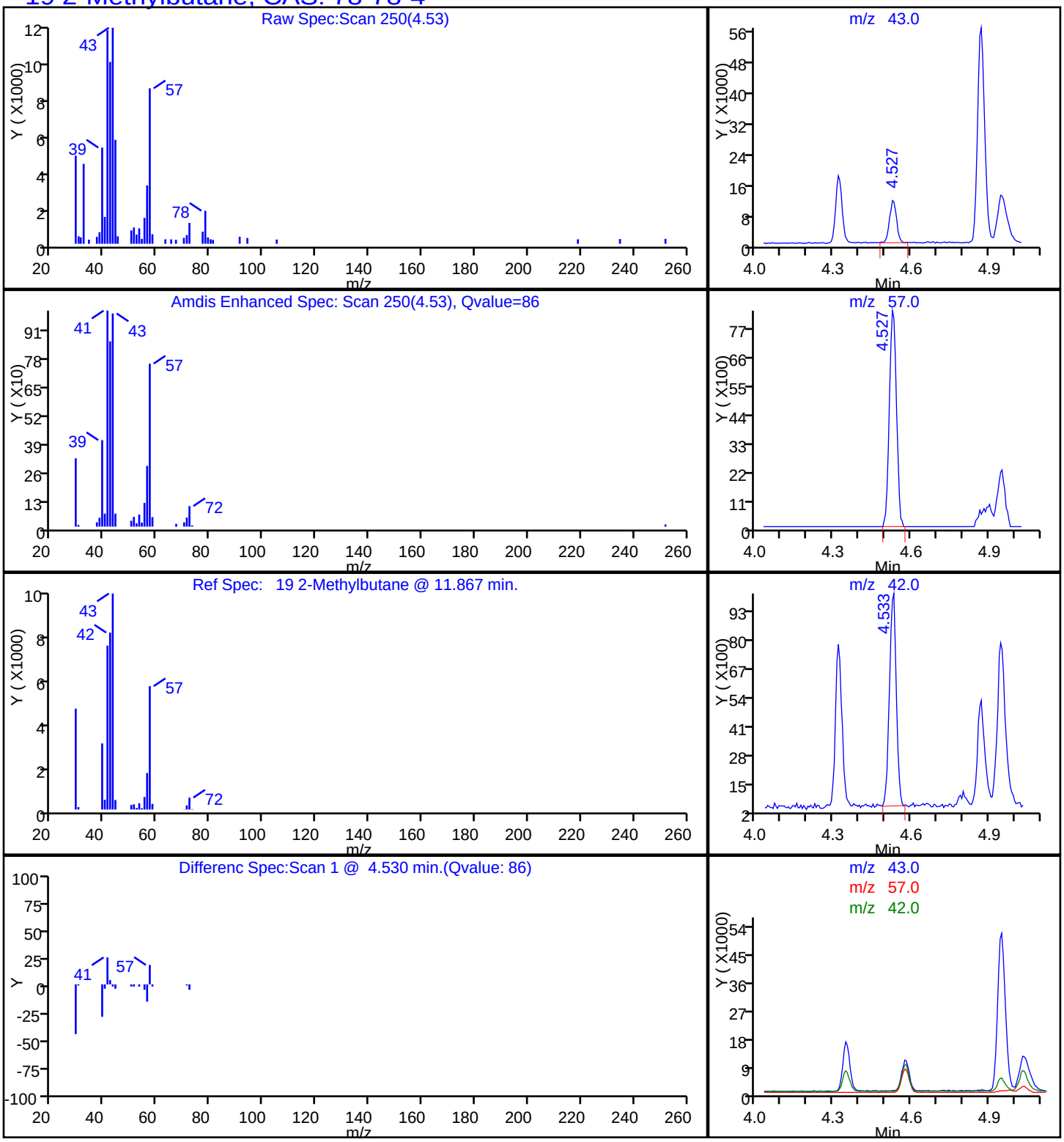
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12		
Client ID:	PCV-IATC-B18				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date: 14-Mar-2014 04:46:30 Instrument ID: ME

Lims ID: 140-1037-A-12 Lab Sample ID: 140-1037-12

Client ID: PCV-IATC-B18

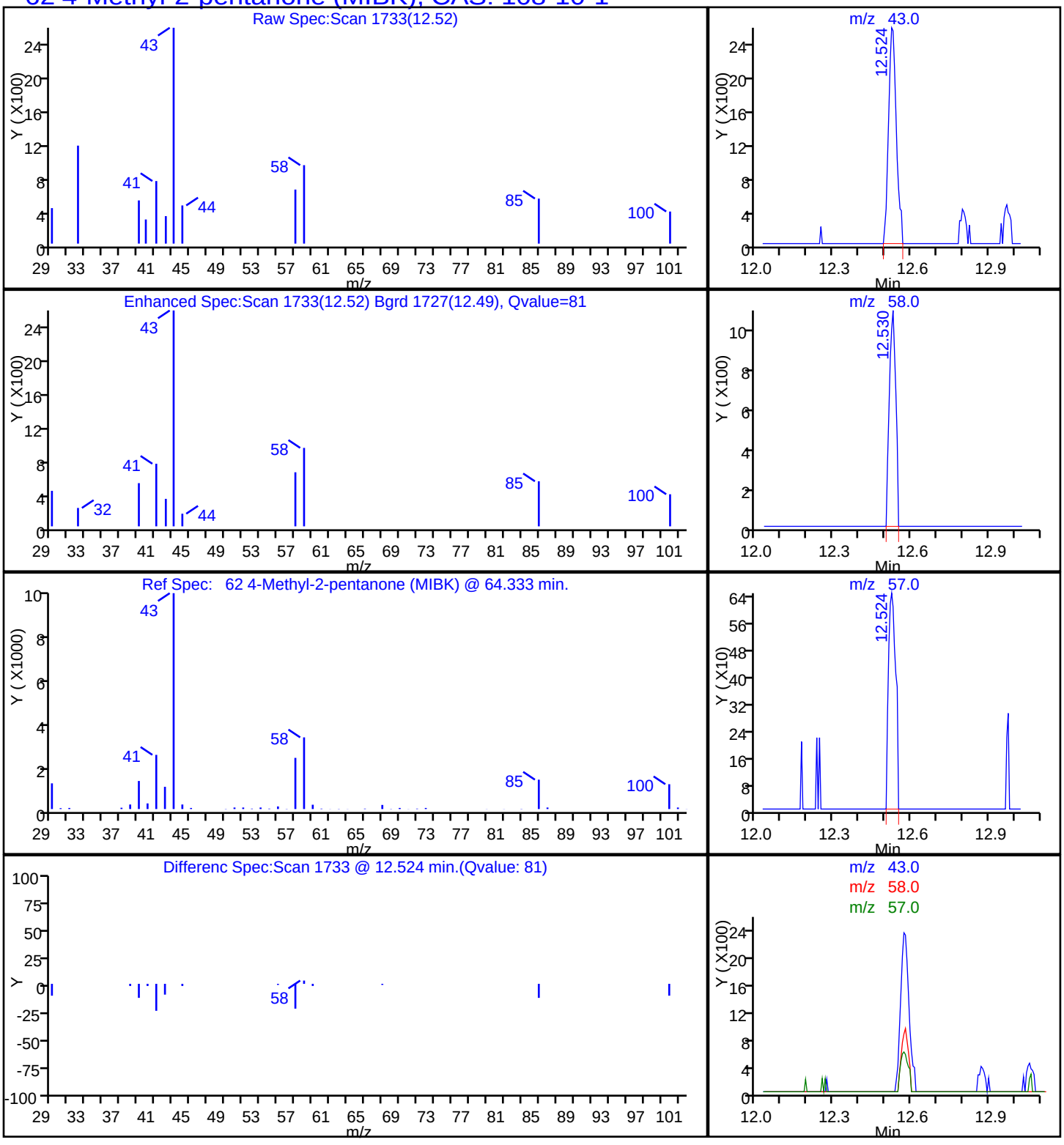
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 24

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

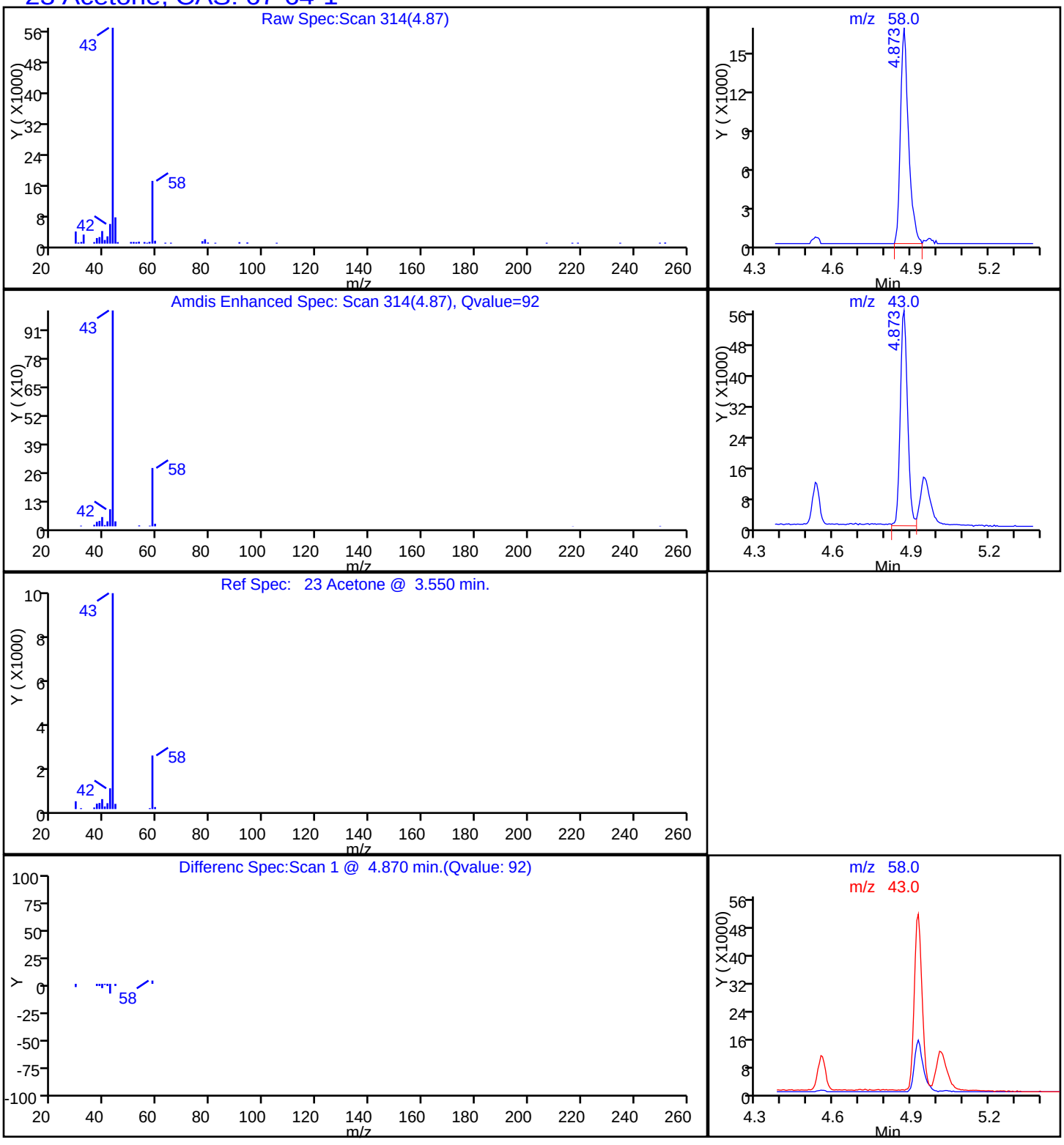
62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D		
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



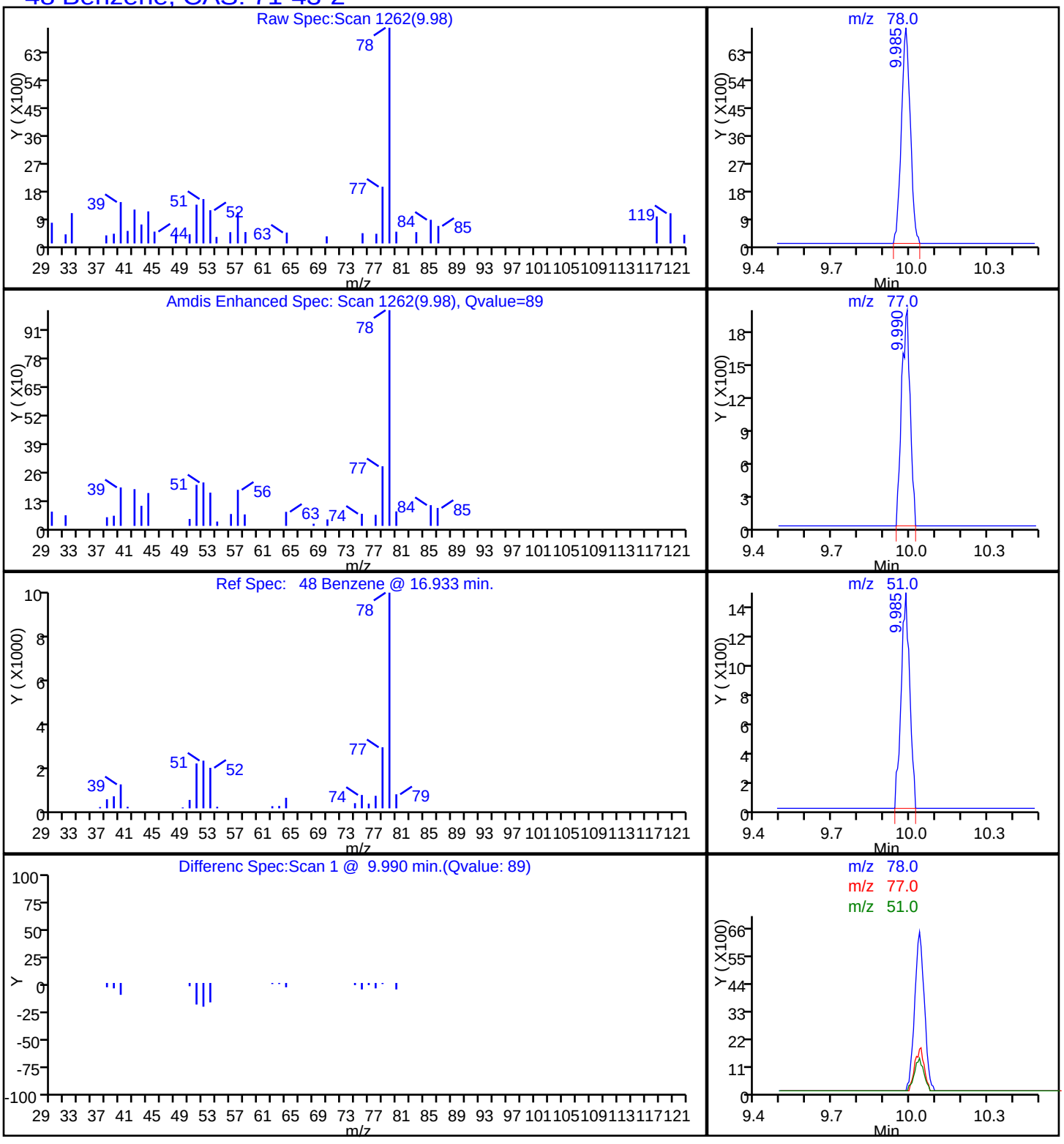
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date: 14-Mar-2014 04:46:30 Instrument ID: ME

Lims ID: 140-1037-A-12 Lab Sample ID: 140-1037-12

Client ID: PCV-IATC-B18

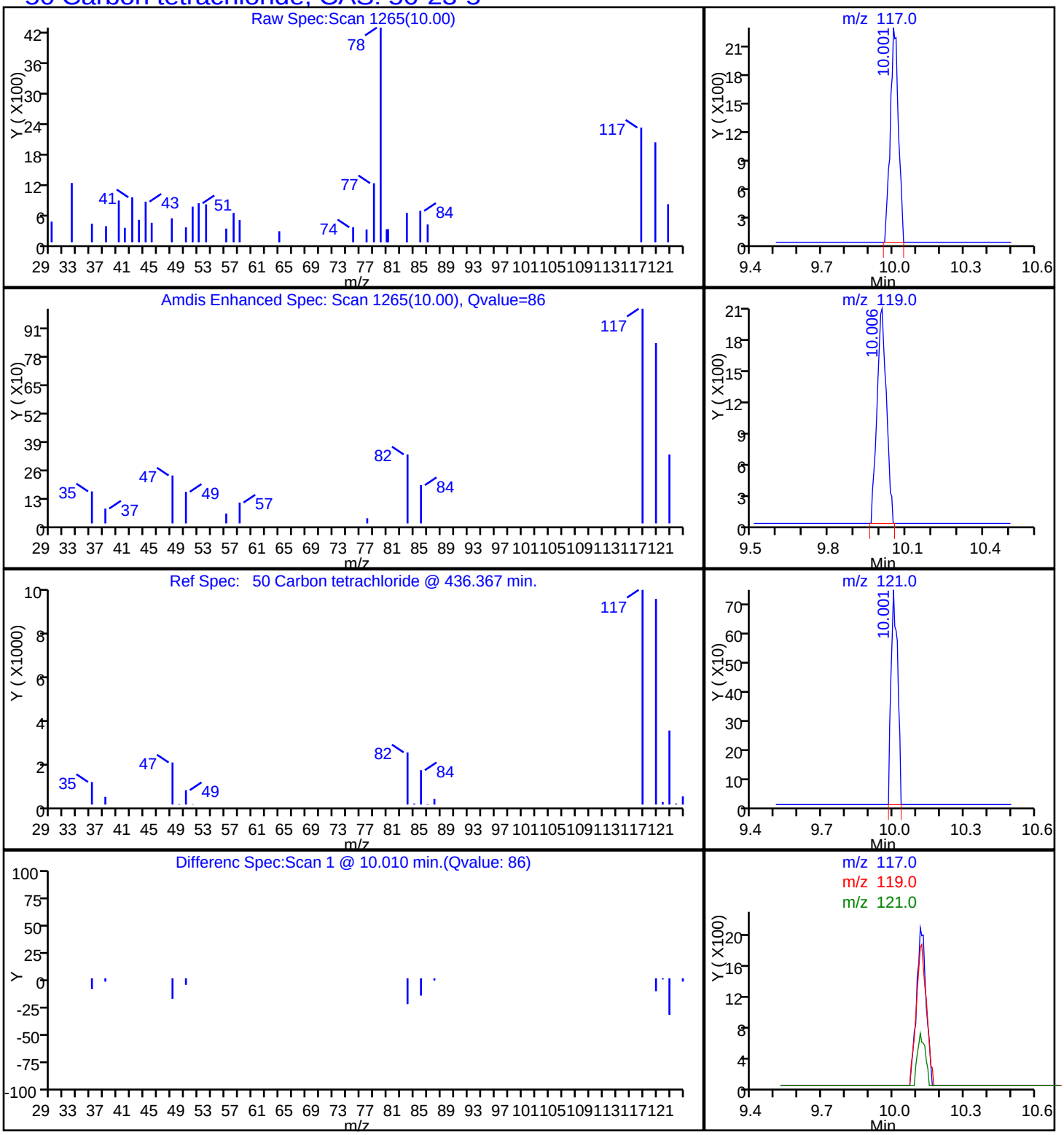
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 24

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



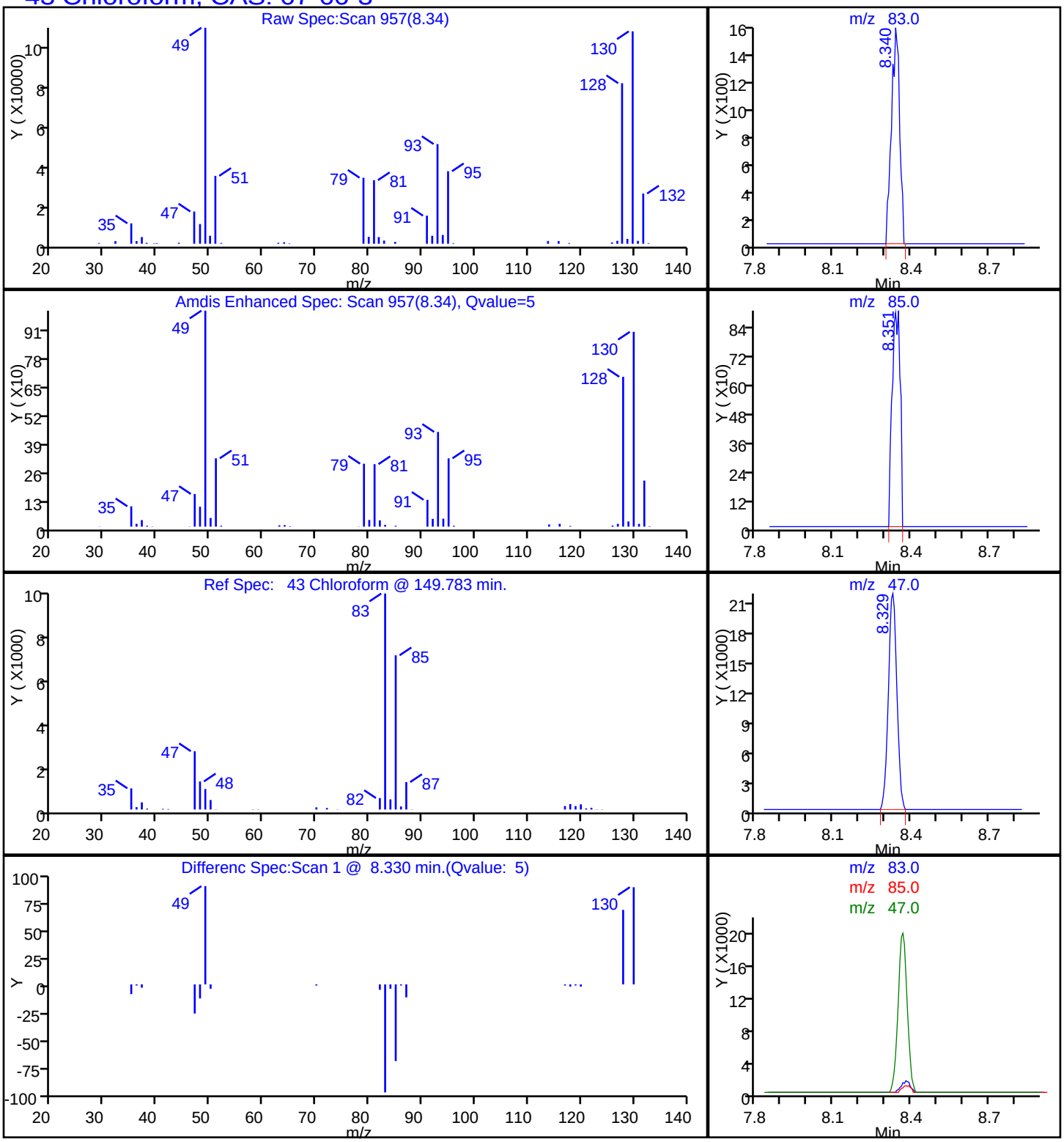
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



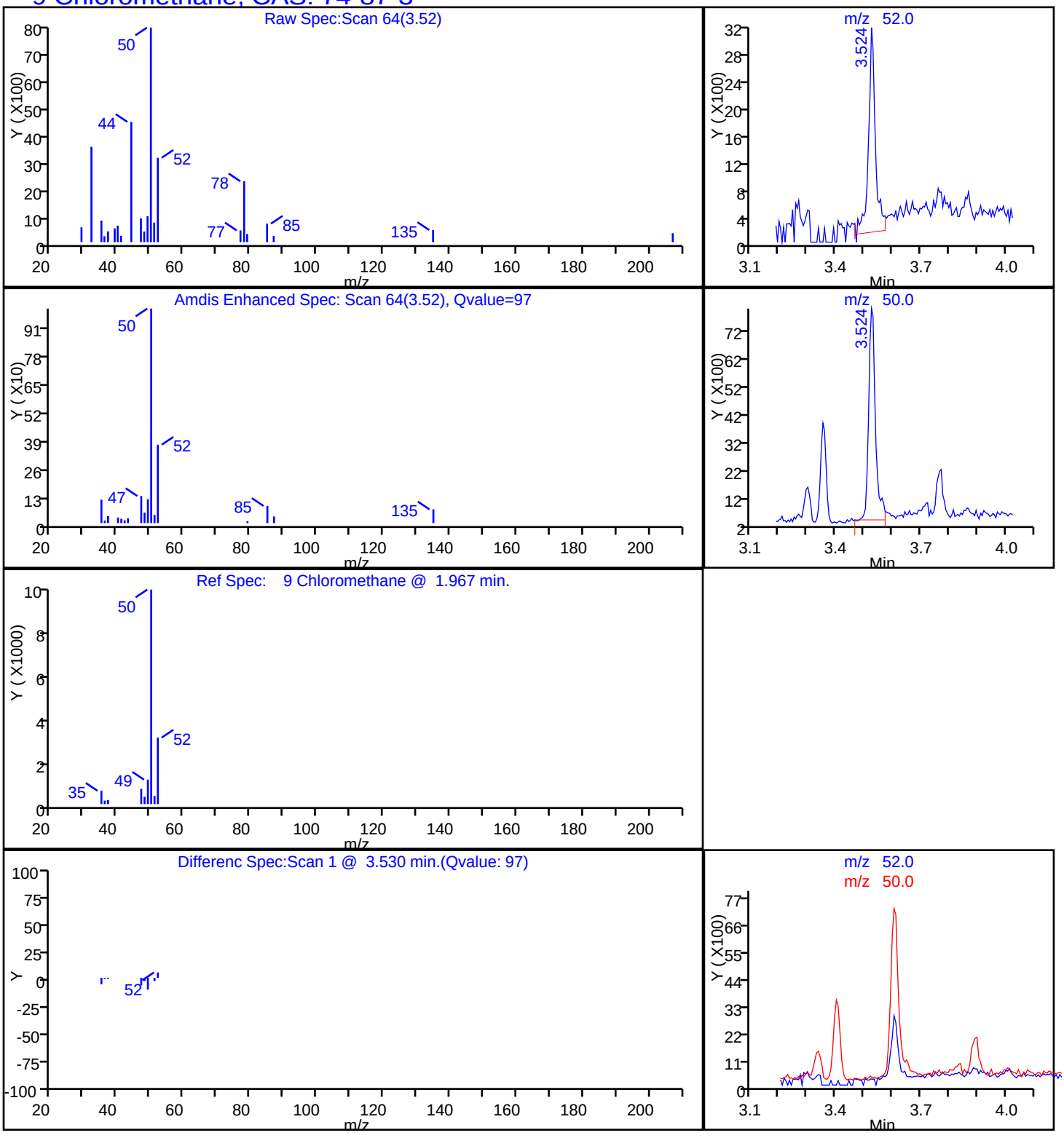
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12		
Client ID:	PCV-IATC-B18				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

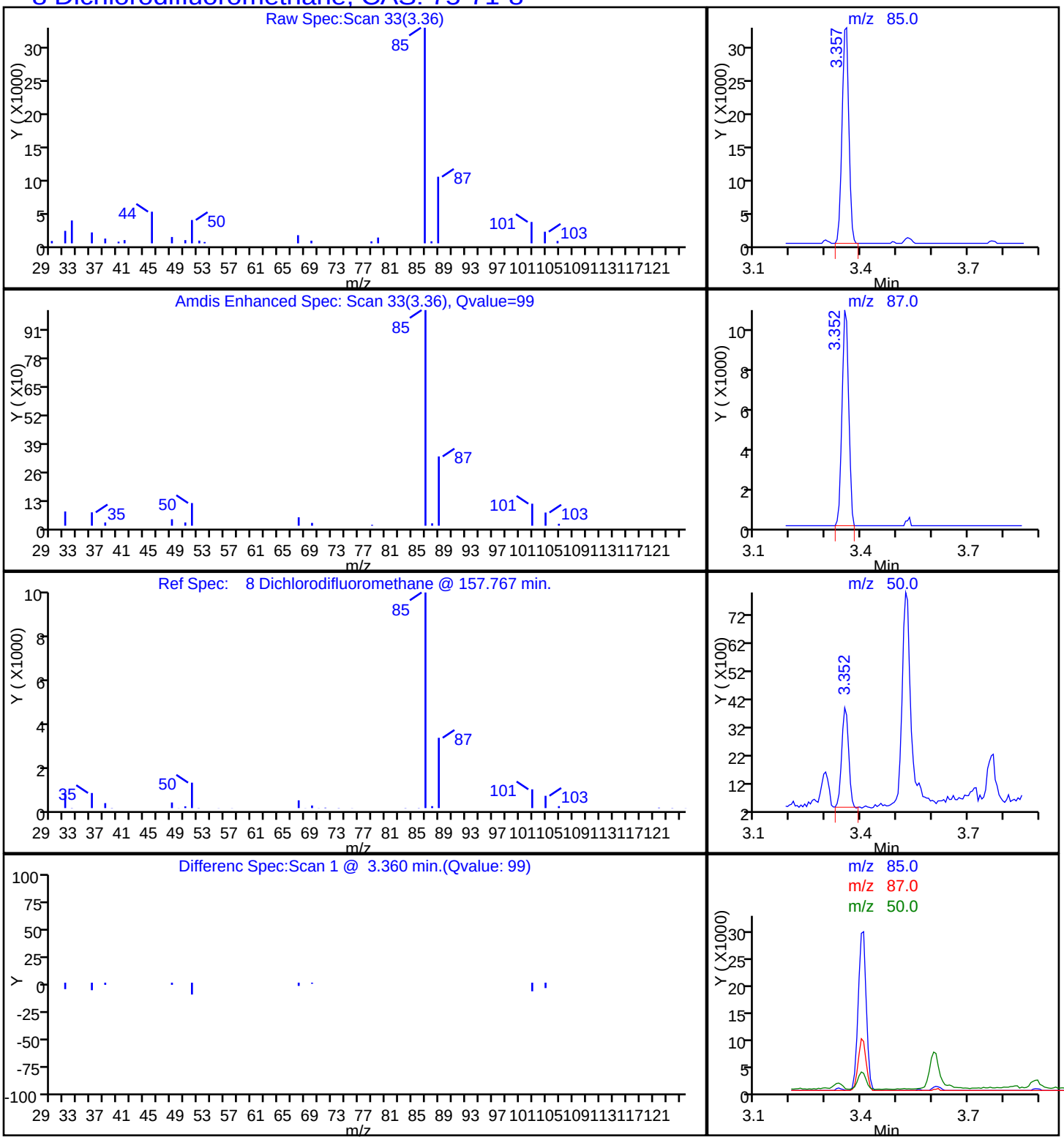
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D		
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



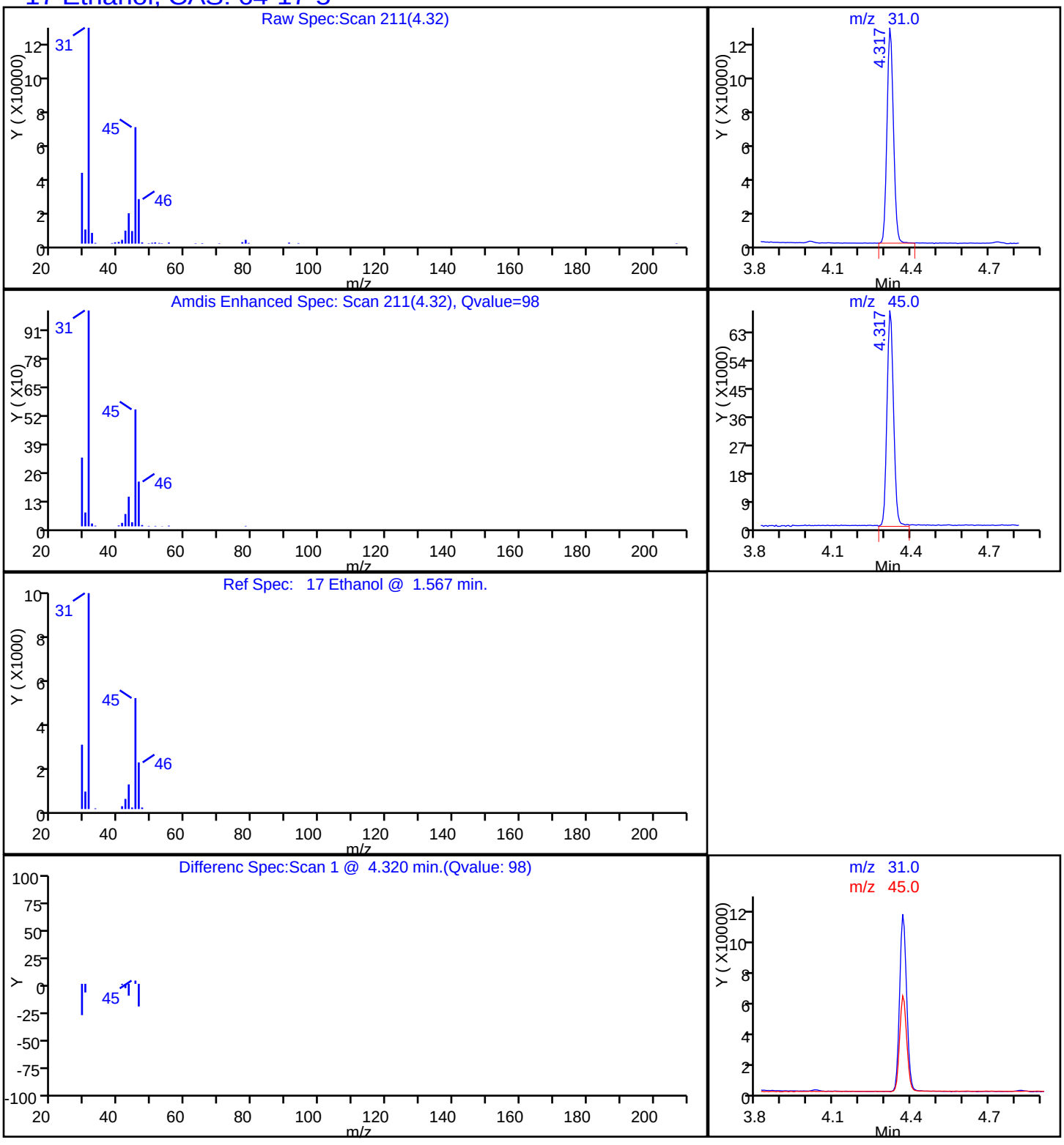
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



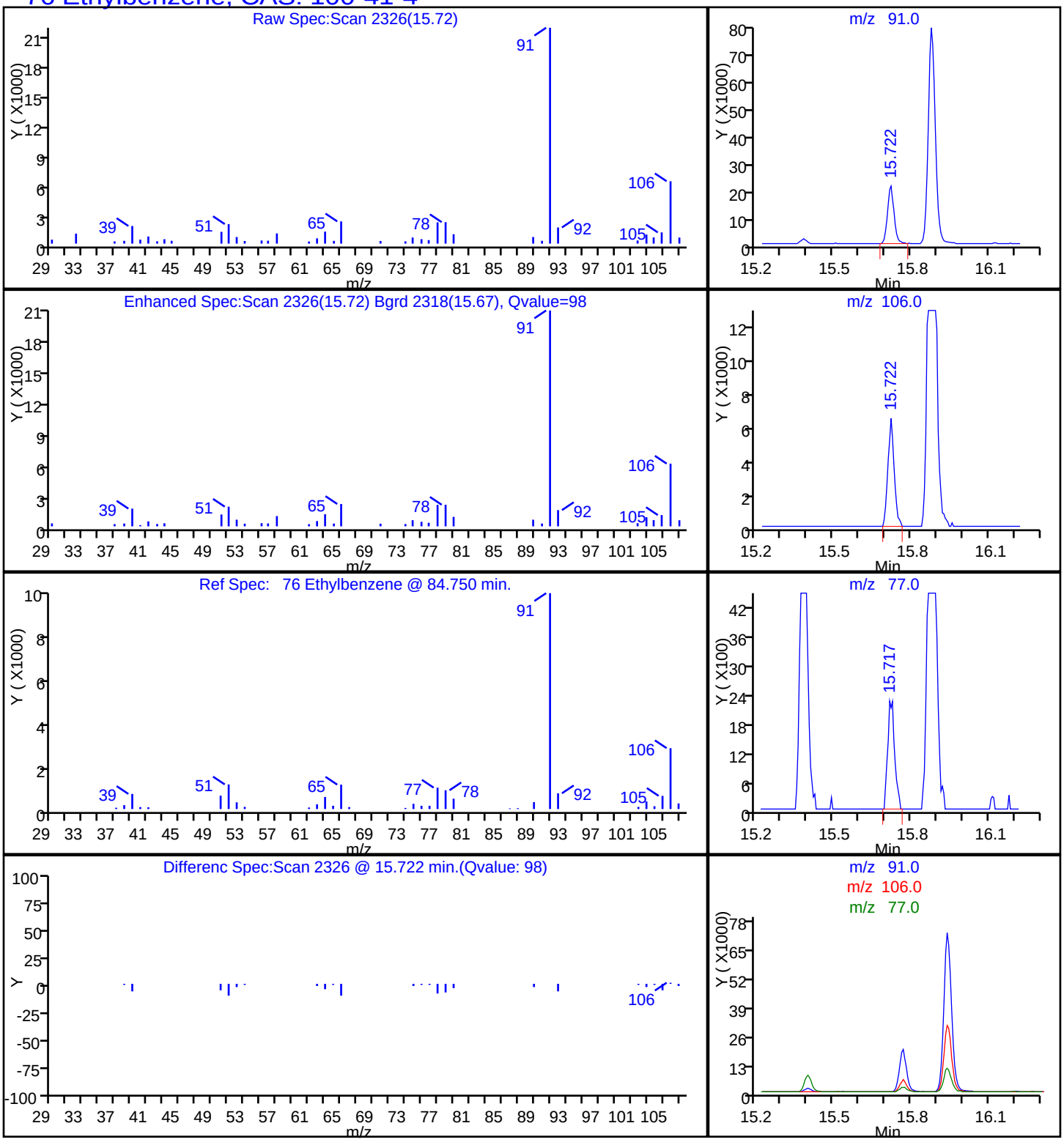
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



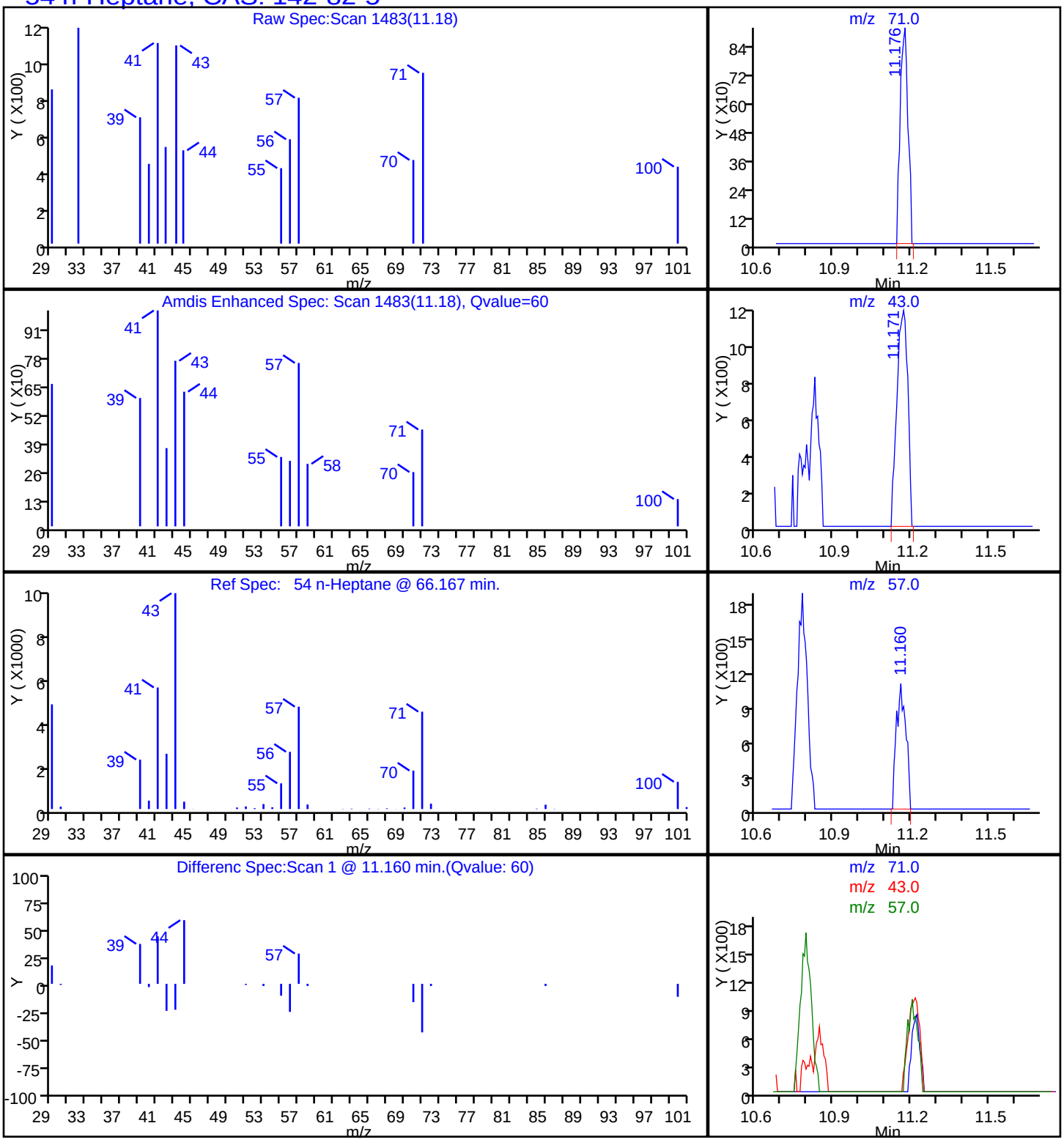
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



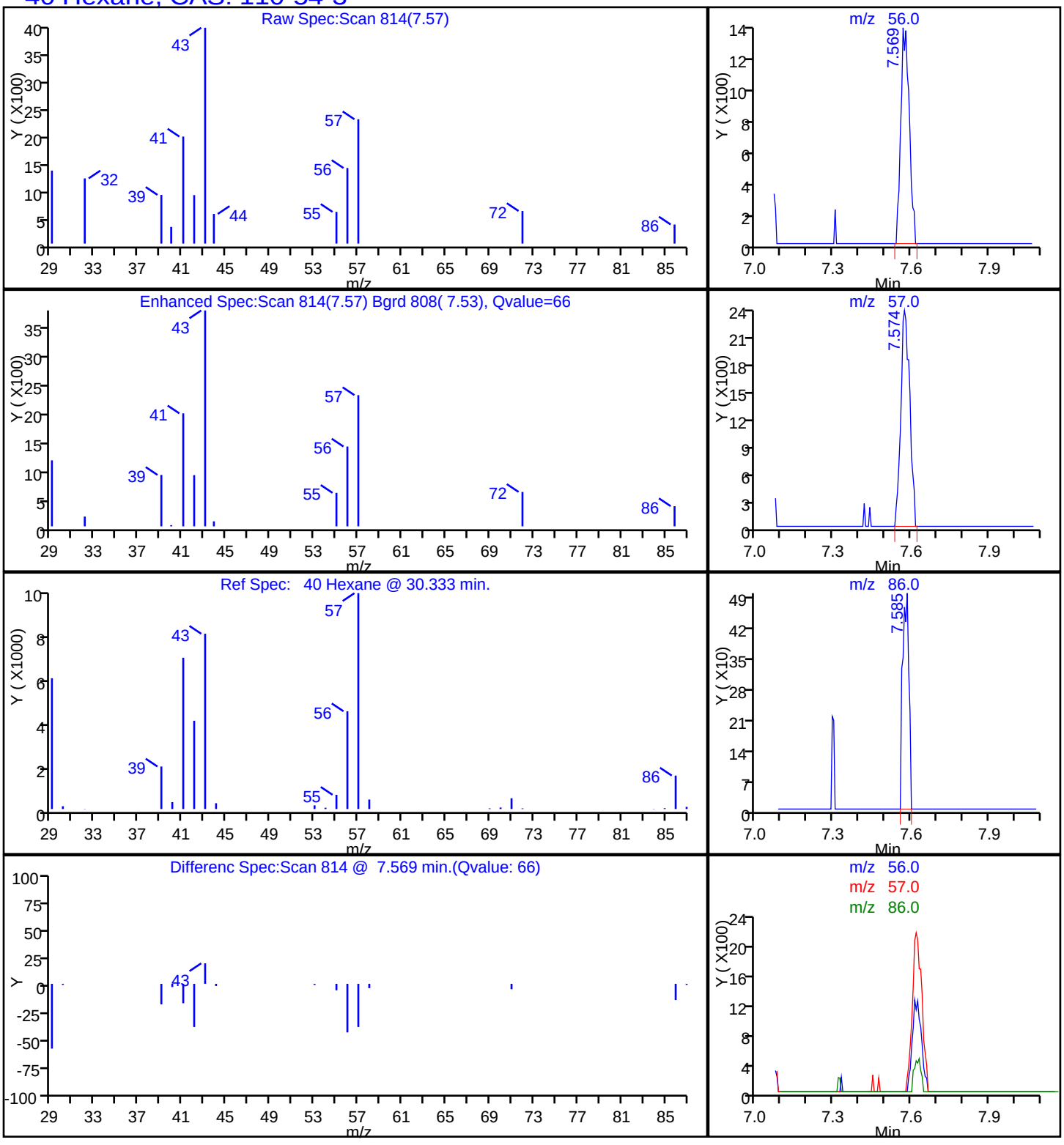
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



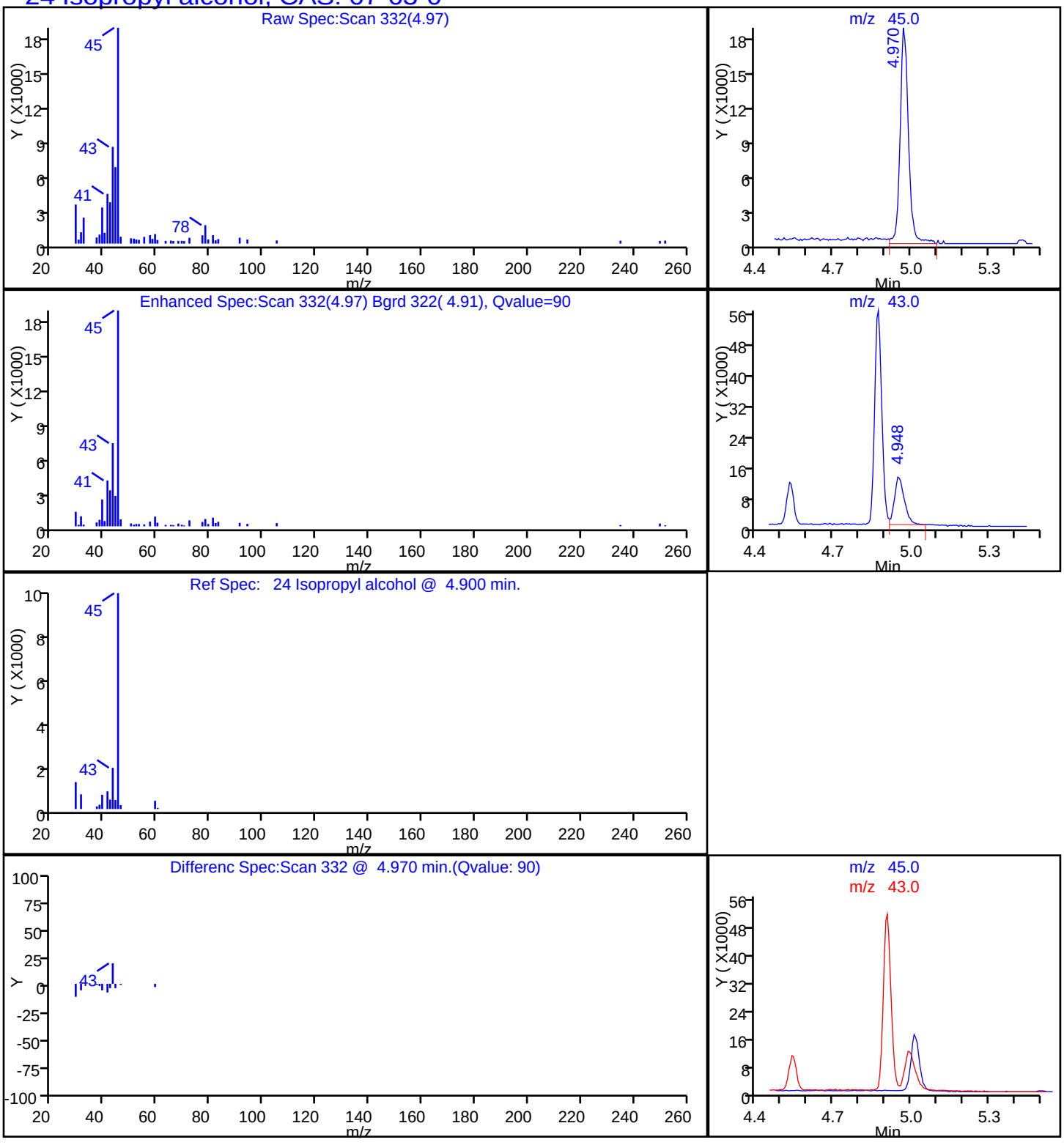
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12		
Client ID:	PCV-IATC-B18				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



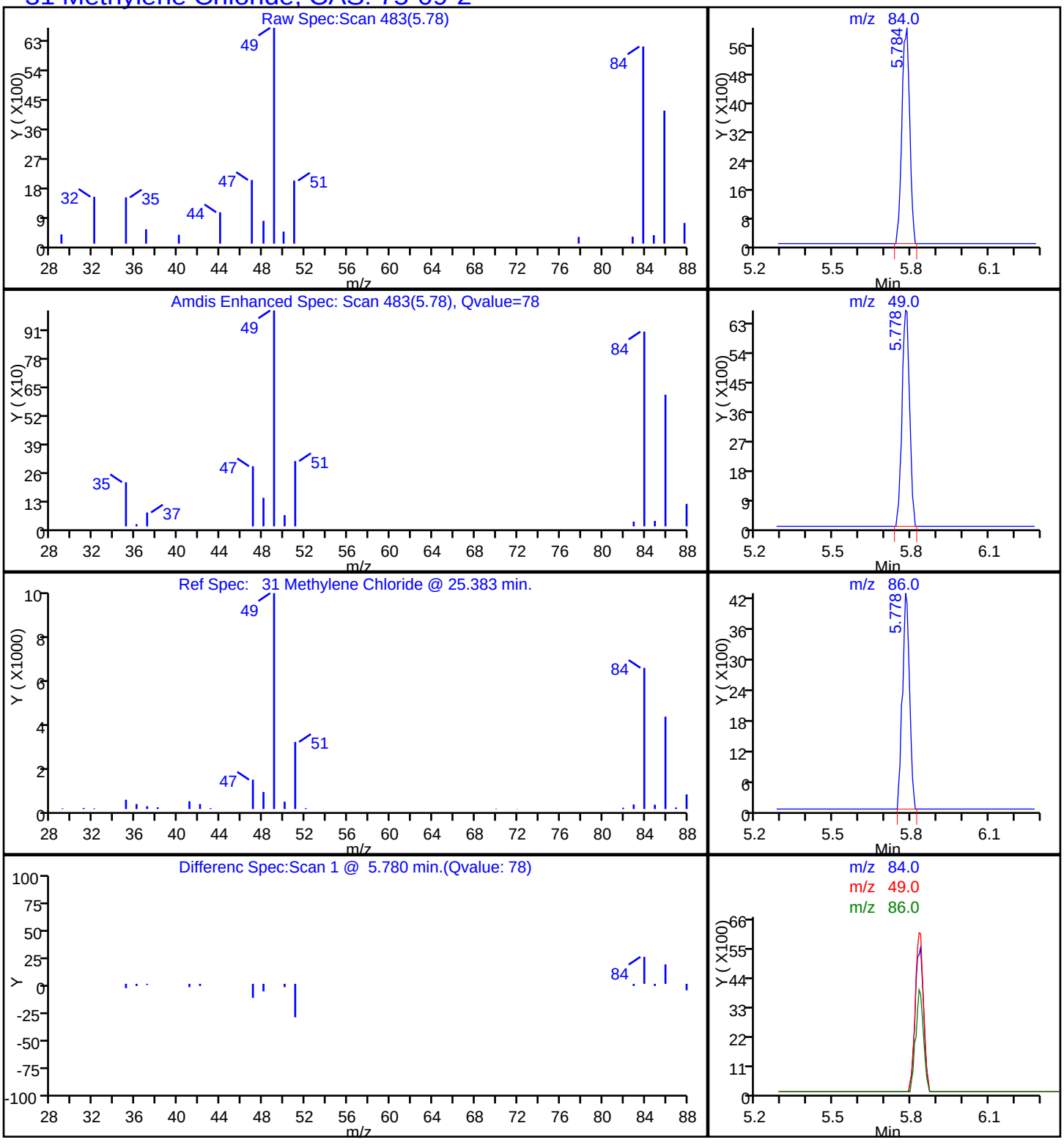
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12		
Client ID:	PCV-IATC-B18				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



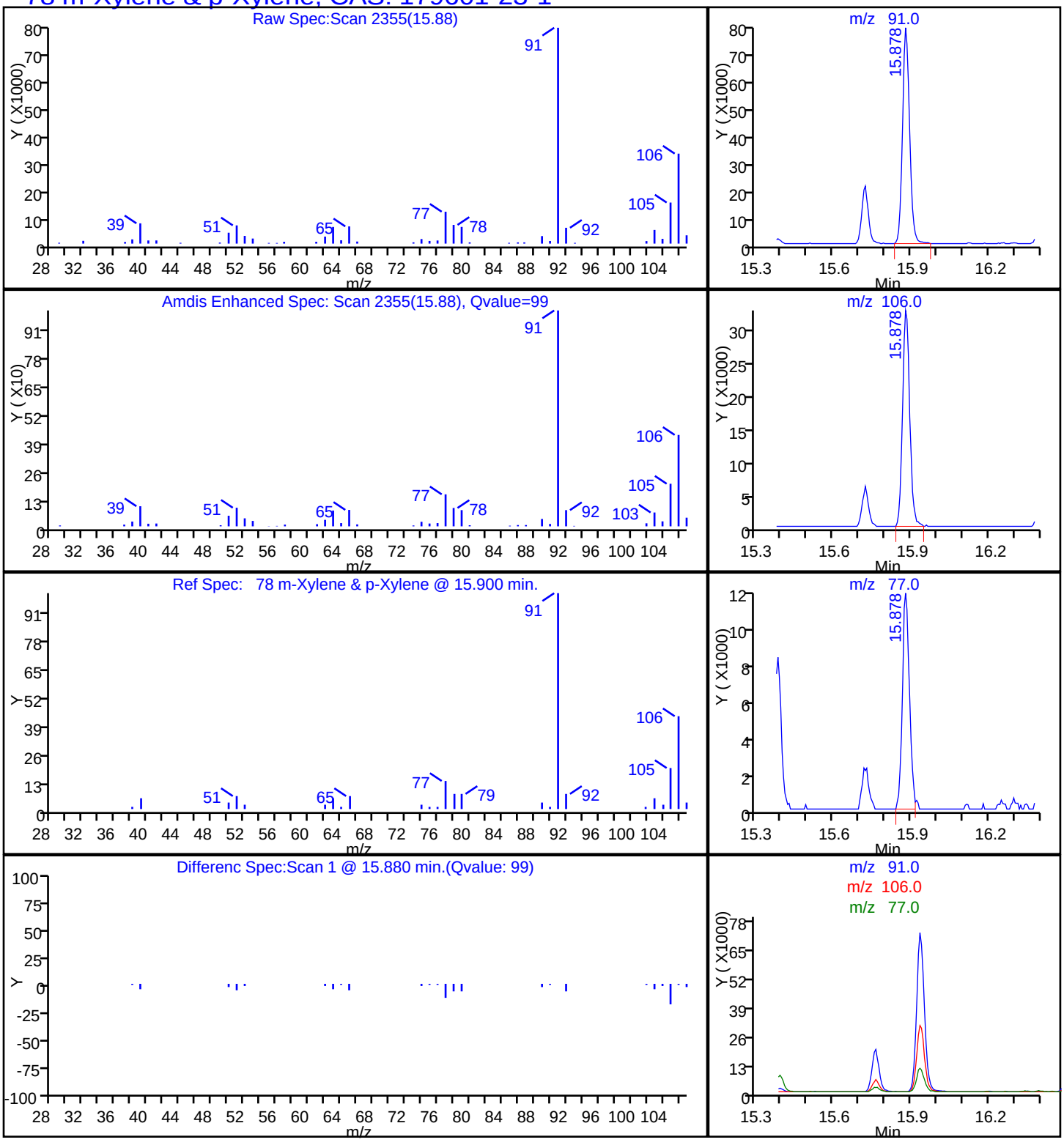
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

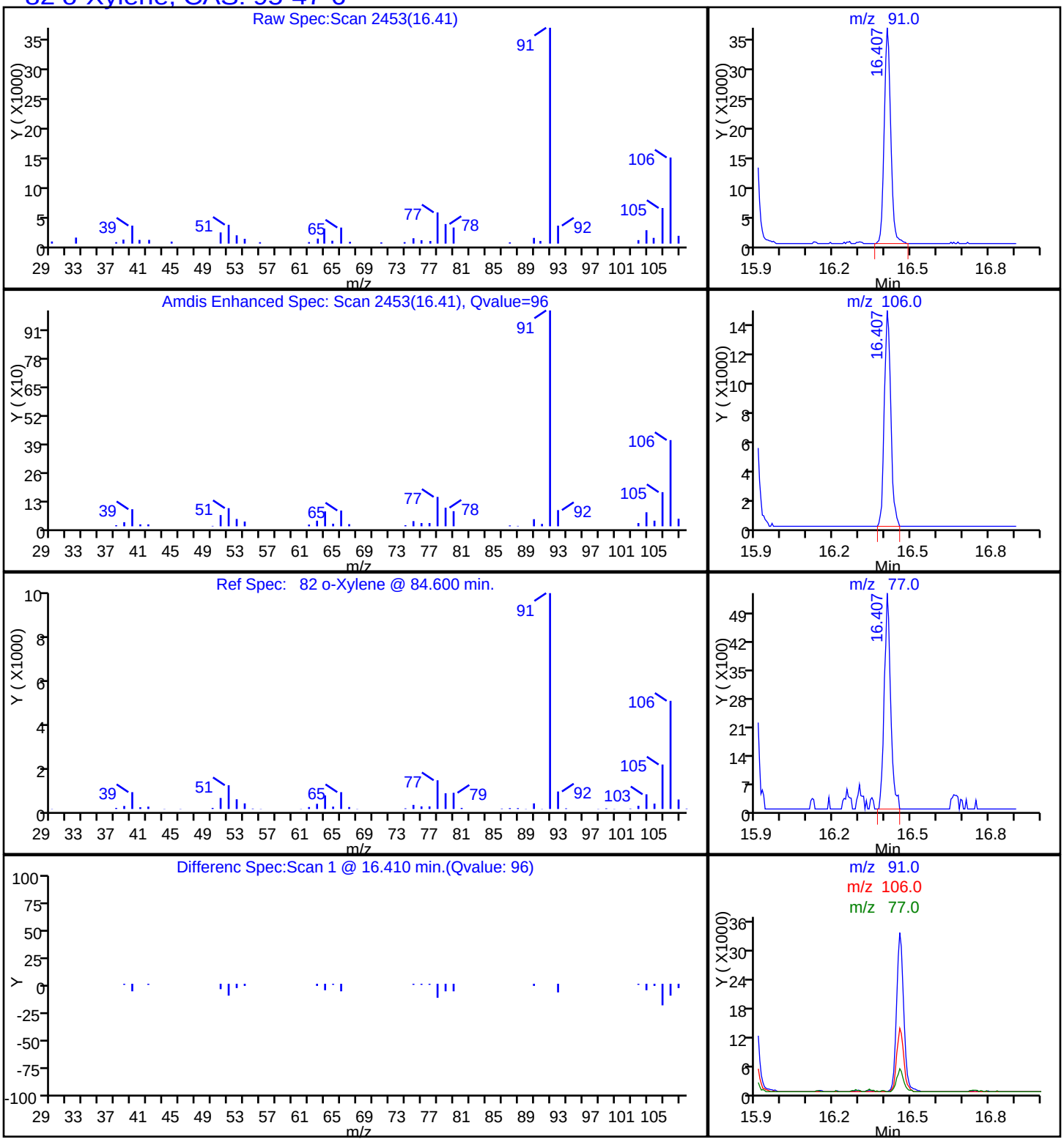
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME		
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12		
Client ID:	PCV-IATC-B18				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D		
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date: 14-Mar-2014 04:46:30 Instrument ID: ME

Lims ID: 140-1037-A-12 Lab Sample ID: 140-1037-12

Client ID: PCV-IATC-B18

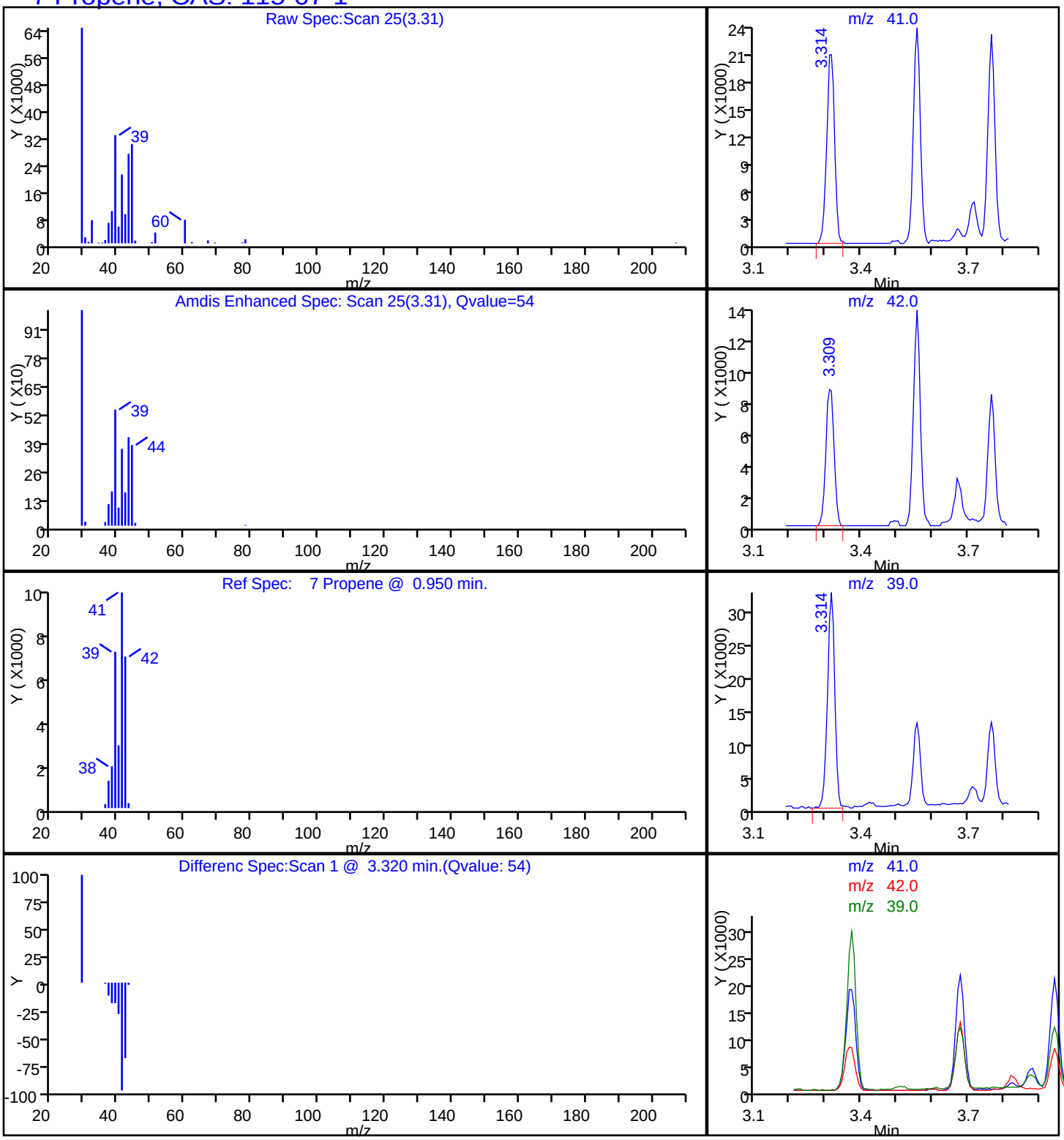
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 24

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



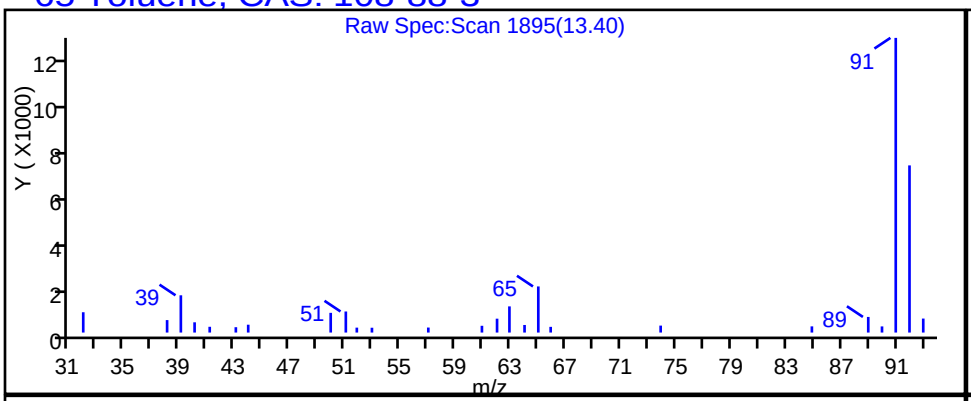
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

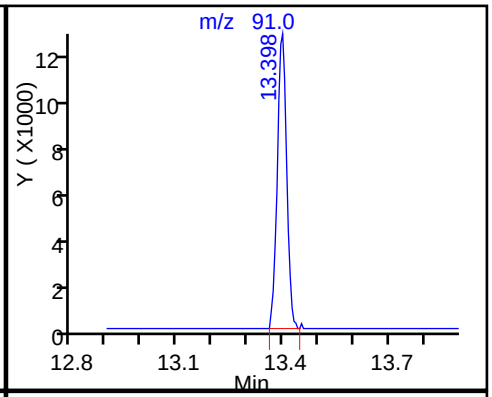
TestAmerica Knoxville

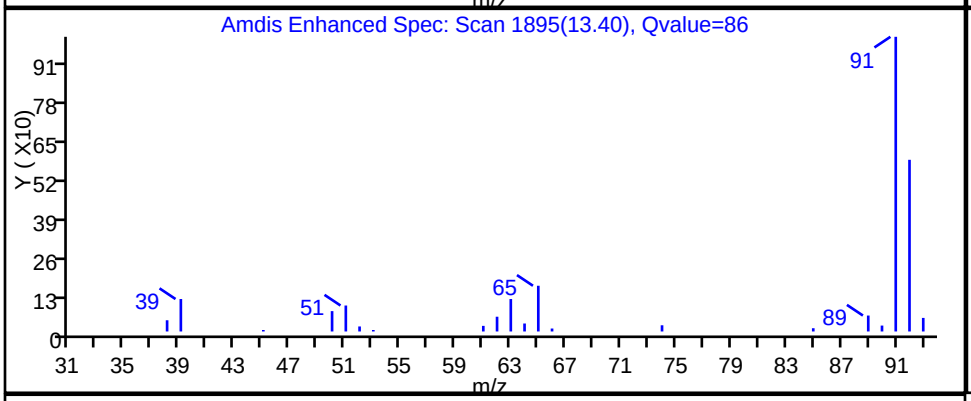
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

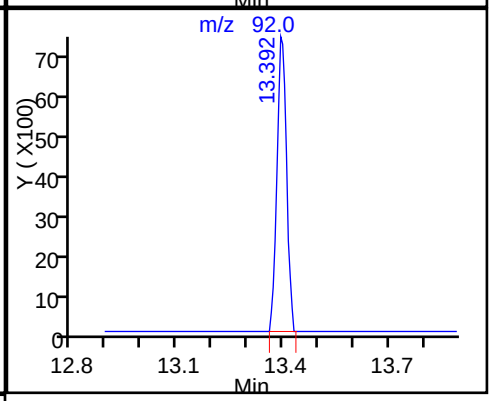
Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

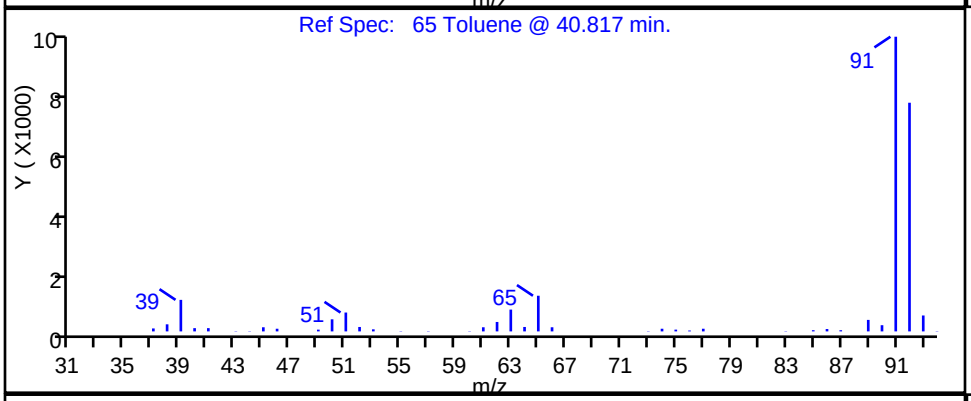
65 Toluene, CAS: 108-88-3

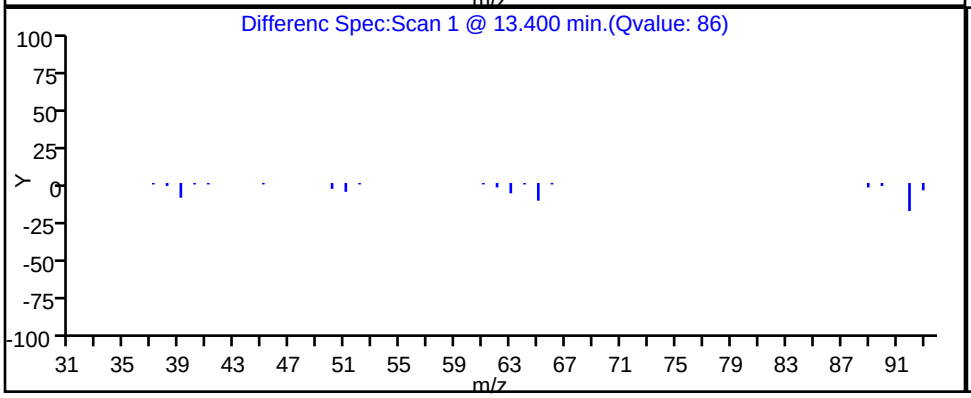


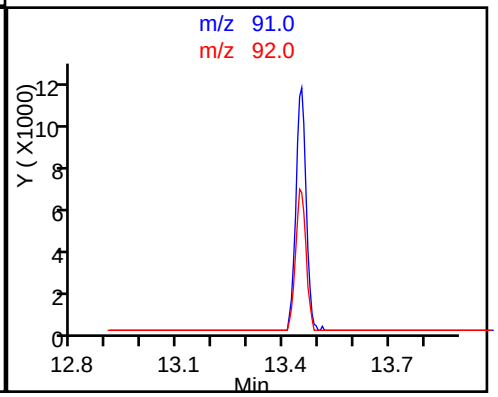












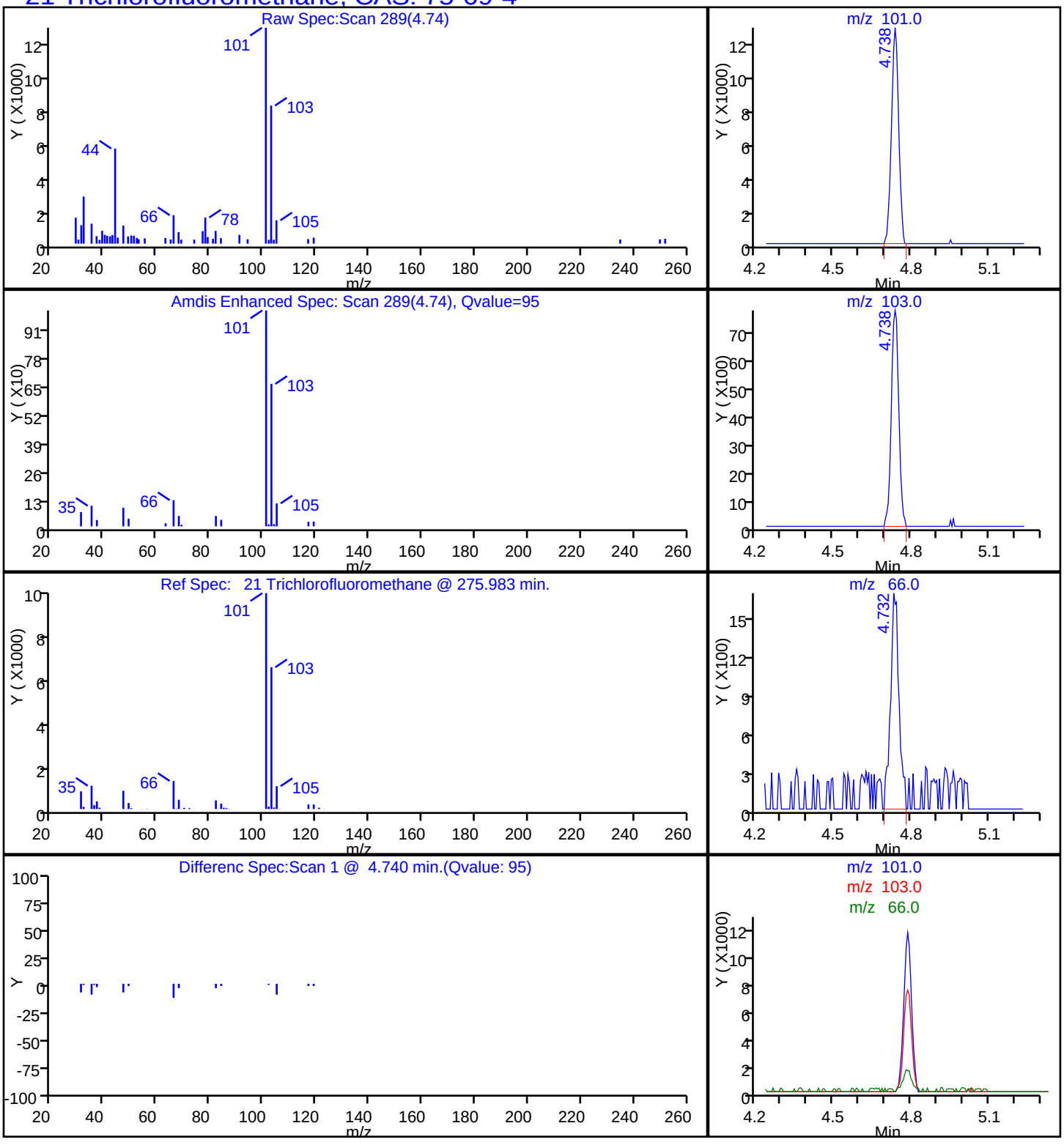
Report Date: 14-Mar-2014 07:30:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P202.D

Injection Date:	14-Mar-2014 04:46:30	Instrument ID:	ME
Lims ID:	140-1037-A-12	Lab Sample ID:	140-1037-12
Client ID:	PCV-IATC-B18		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.077	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.051	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.41	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.4		0.50	0.045
67-64-1	Acetone	58.08	5.0		5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.075	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.65		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.20	0.068
64-17-5	Ethanol	46.07	11		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.060	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.20	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.9		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.26		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.31		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.59	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	18		2.0	0.18
67-64-1	Acetone	58.08	12		12	3.3
71-43-2	Benzene	78.11	0.71		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.47	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.99	0.34
64-17-5	Ethanol	46.07	20		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.25	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.69	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	6.7		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.97		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: PCV-AMB1 Lab Sample ID: 140-1037-13

Matrix: Air Lab File ID: EC13P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:59

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 06:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D
Lims ID: 140-1037-A-13 Lab Sample ID: 140-1037-13
Client ID: PCV-AMB1
Sample Type: Client
Inject. Date: 14-Mar-2014 06:16:30 ALS Bottle#: 4 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1037-a-13
Misc. Info.: E031314,TO155,,140-0000518-025
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:31:26 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:31:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	191943	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	916212	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	864566	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	84	779091	4.12	
7 Propene	41	3.314	3.309	0.005	88	25333	0.5247	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	45248	0.2131	
9 Chloromethane	52	3.530	3.530	0.0	96	4395	0.2593	
17 Ethanol	31	4.306	4.312	-0.006	98	81775	4.26	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	29526	0.4393	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	93	26213	0.1231	
23 Acetone	58	4.872	4.878	-0.006	93	57945	1.99	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	97	37026	0.4947	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	68	4074	0.0309	
31 Methylene Chloride	84	5.784	5.789	-0.005	85	42366	0.7724	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	92	5162	0.1643	
40 Hexane	56	7.579	7.585	-0.006	59	4015	0.0786	
48 Benzene	78	9.984	9.995	-0.011	92	16478	0.0894	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	90	5349	0.0302	
53 Isooctane	57	10.772	10.788	-0.016	57	5759	0.0202	
54 n-Heptane	71	11.171	11.182	-0.011	61	1676	0.0240	
62 4-Methyl-2-pentanone (MIBK)	43	12.513	12.519	-0.006	94	192990	1.78	
65 Toluene	91	13.392	13.403	-0.011	88	23880	0.1031	

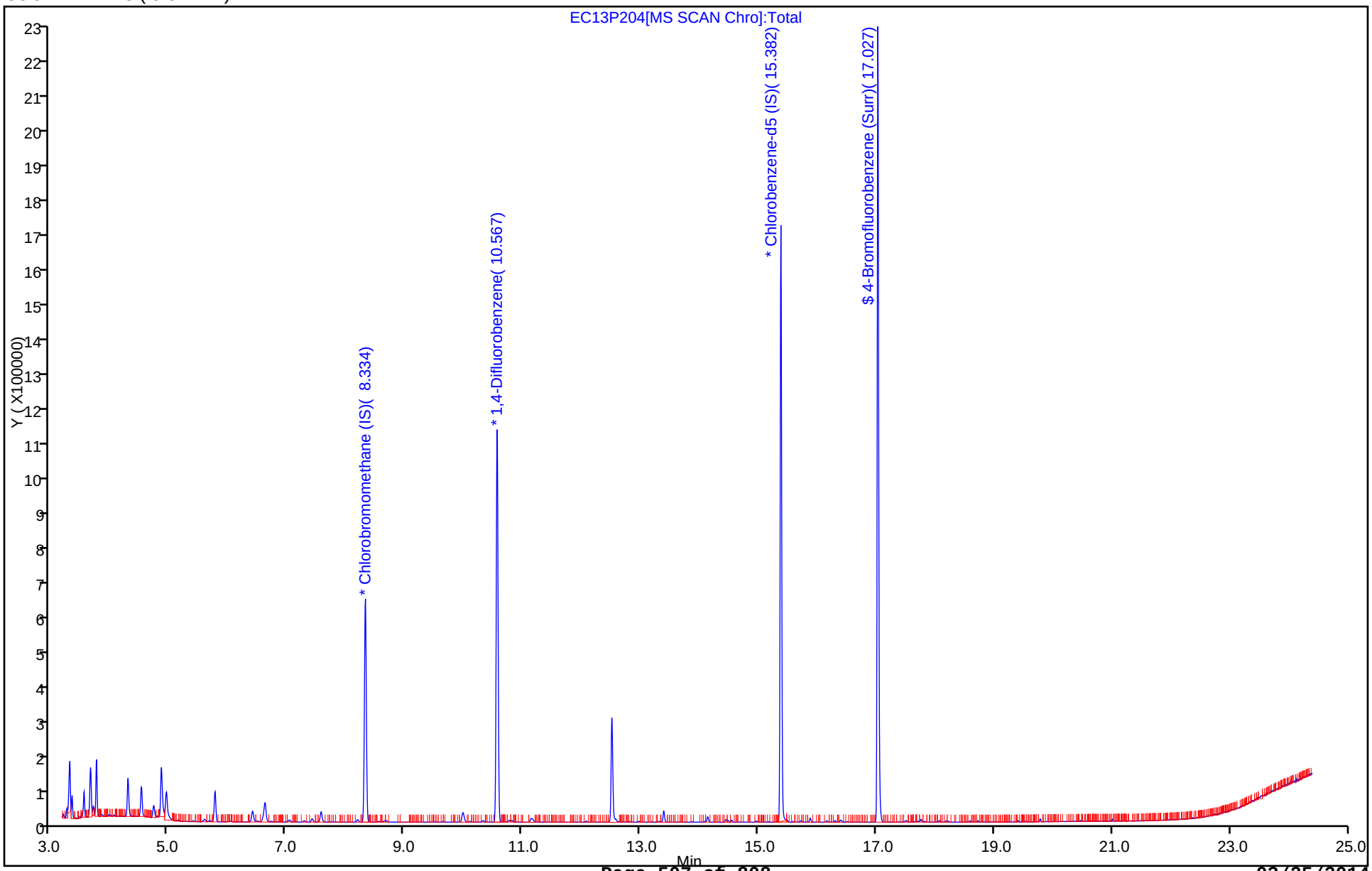
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13	Worklist Smp#:	25
Client ID:	PCV-AMB1				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date: 14-Mar-2014 06:16:30 Instrument ID: ME

Lims ID: 140-1037-A-13 Lab Sample ID: 140-1037-13

Client ID: PCV-AMB1

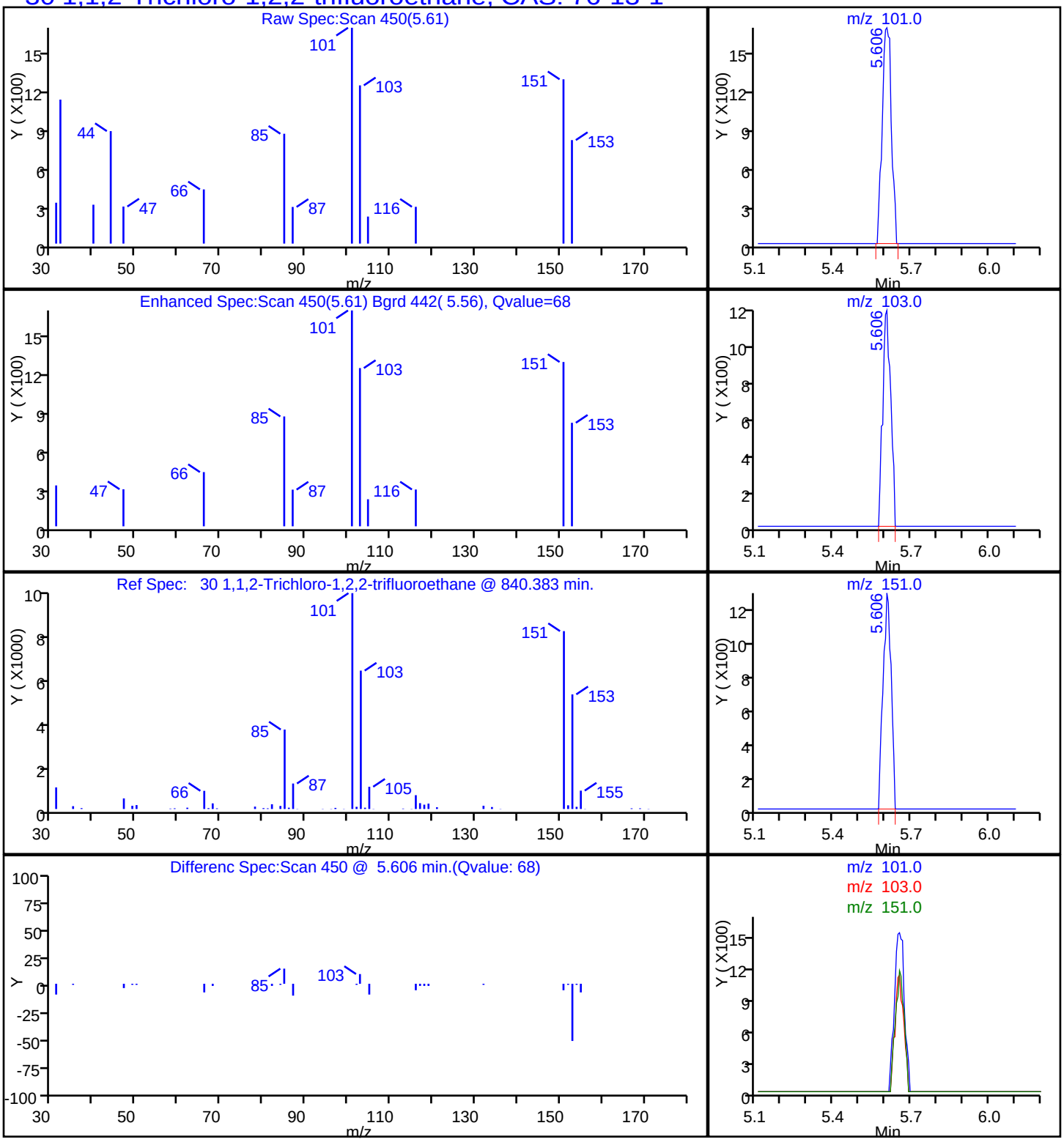
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



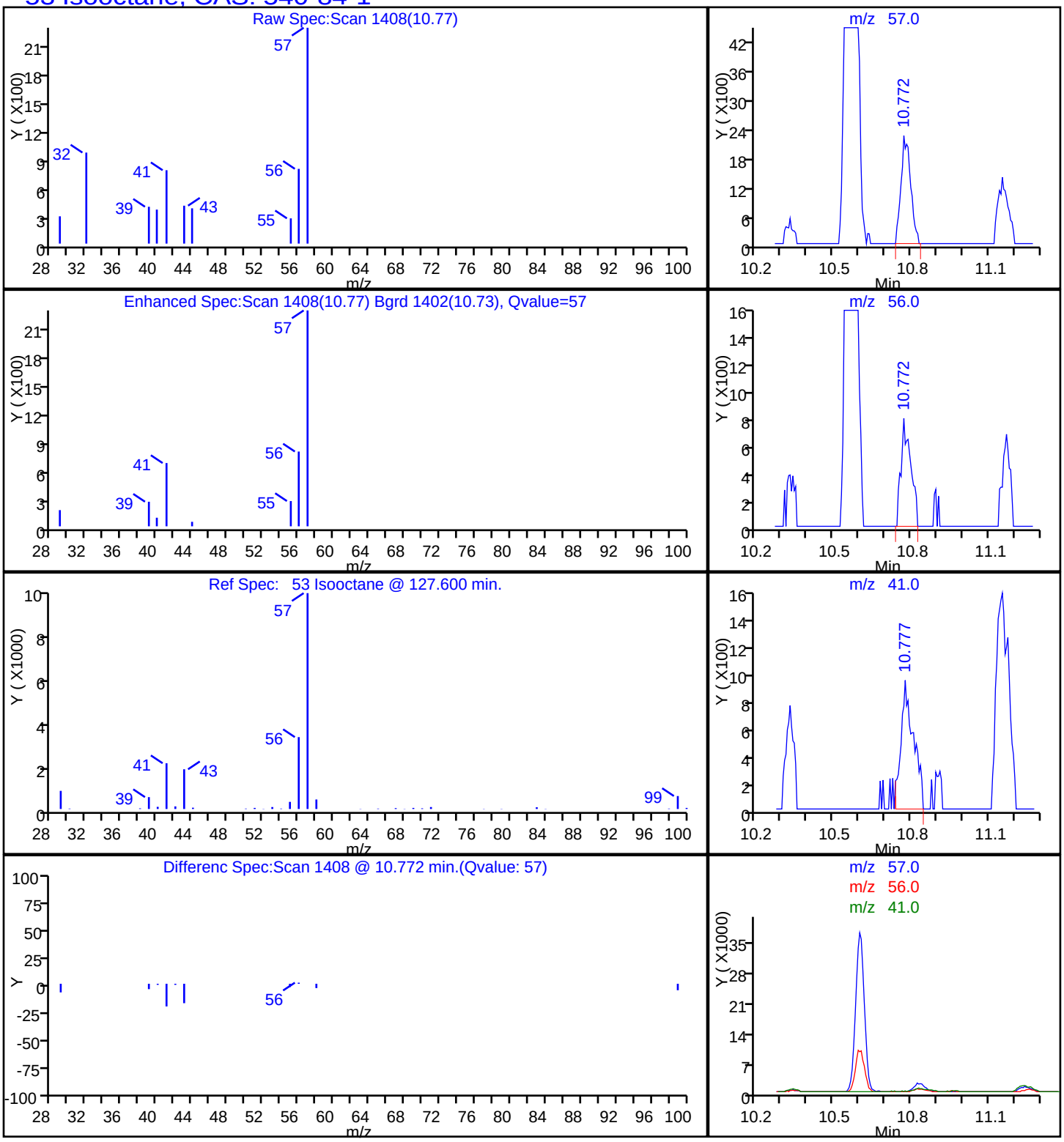
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



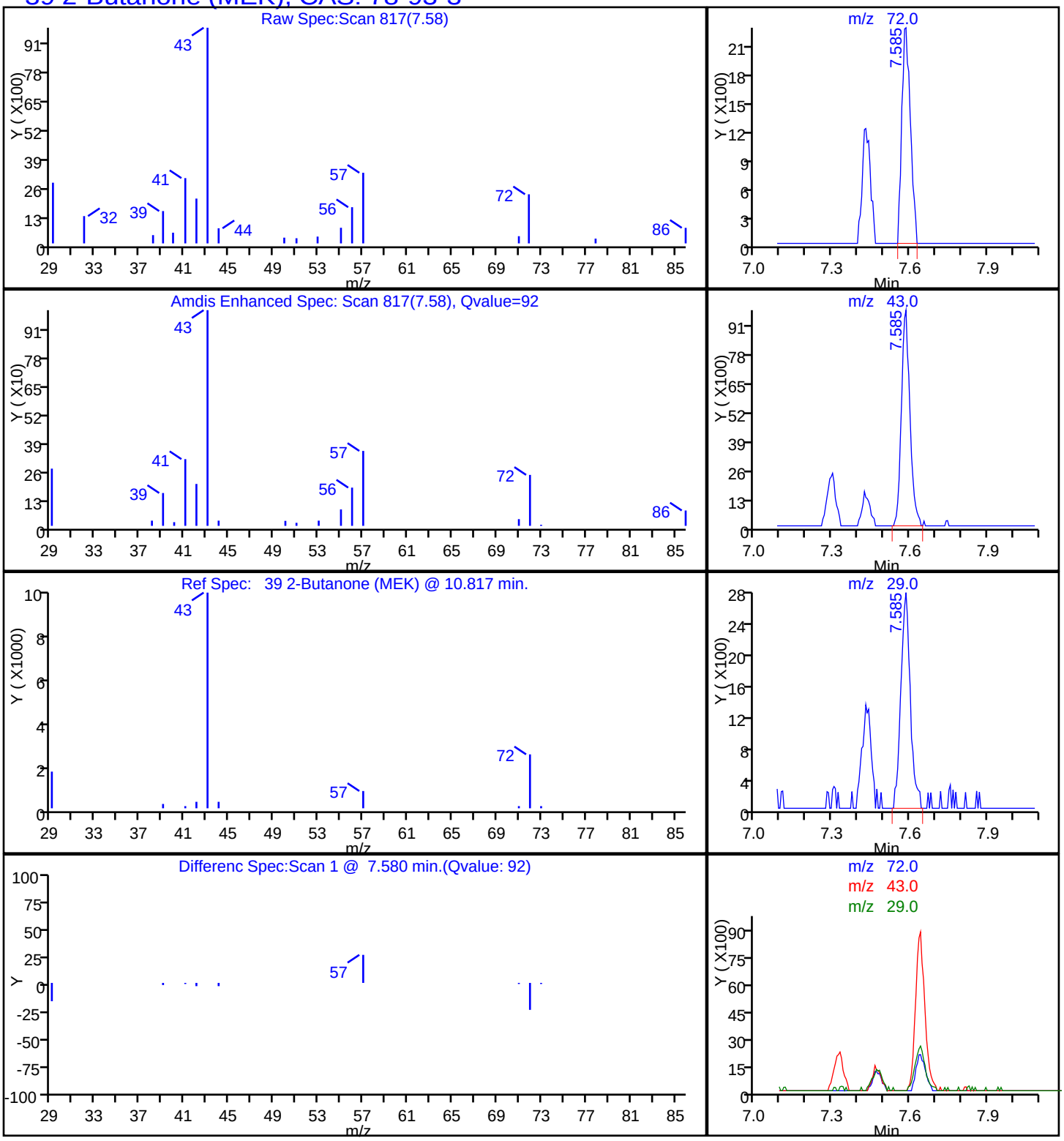
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



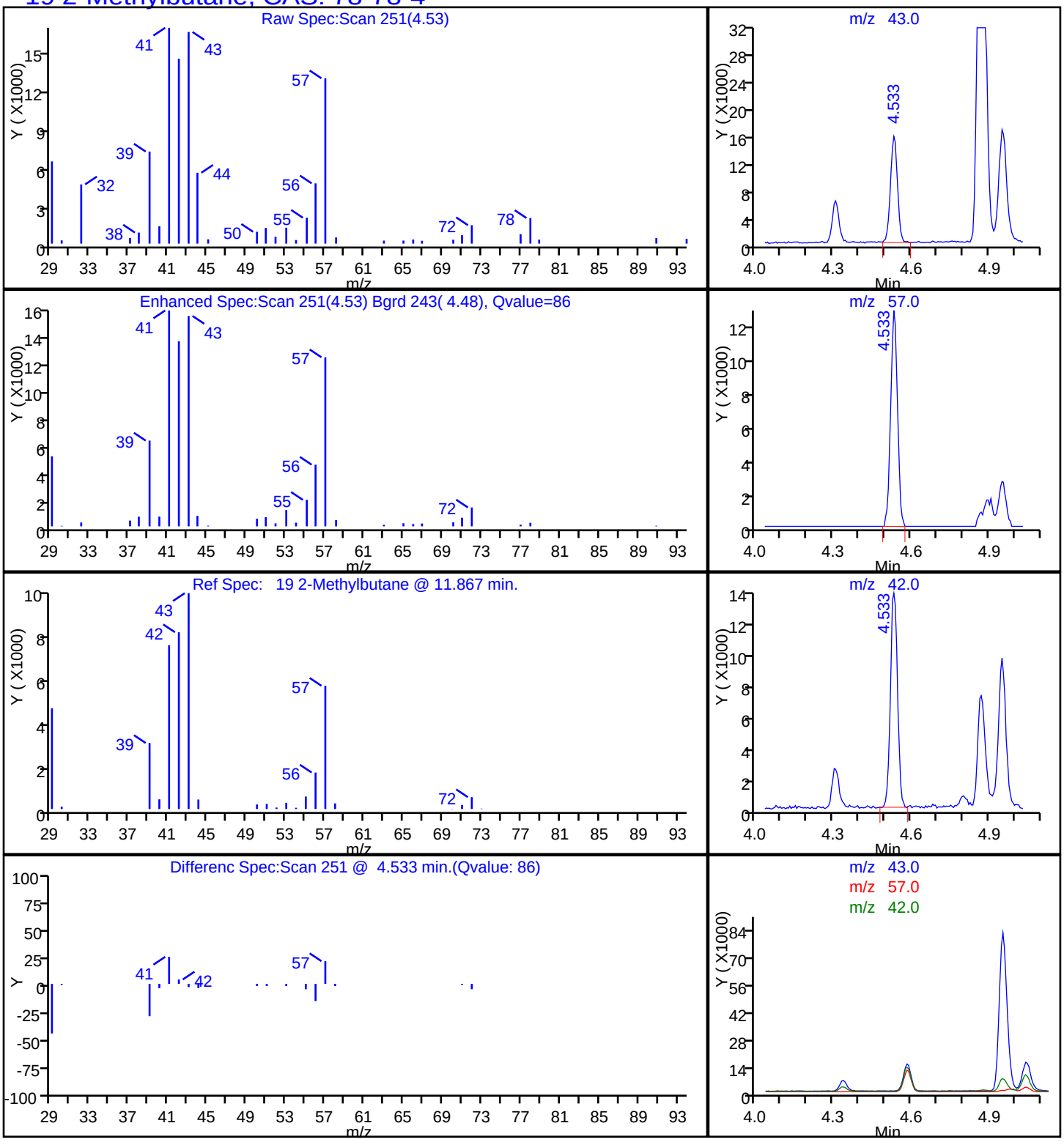
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



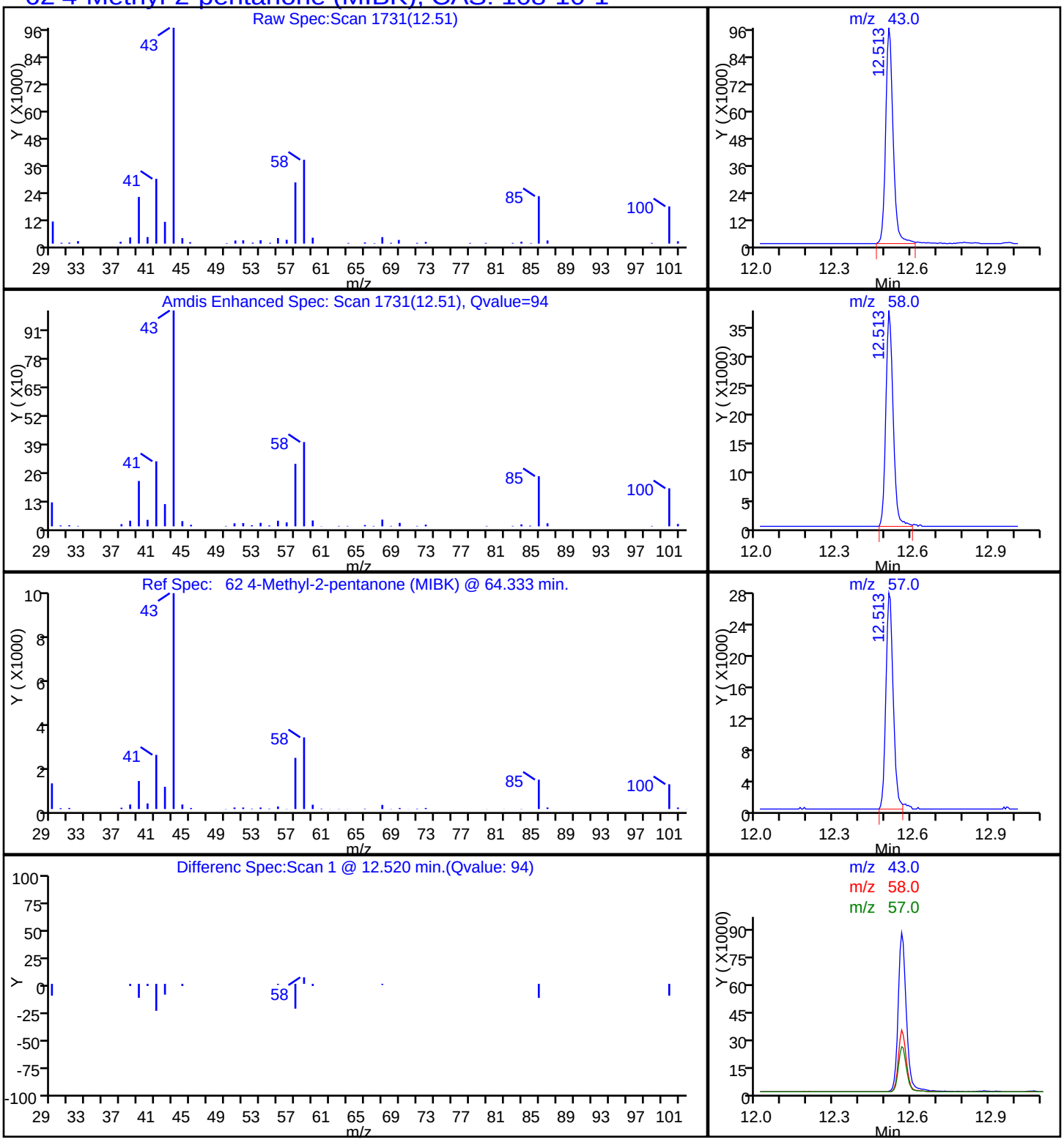
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13		
Client ID:	PCV-AMB1				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



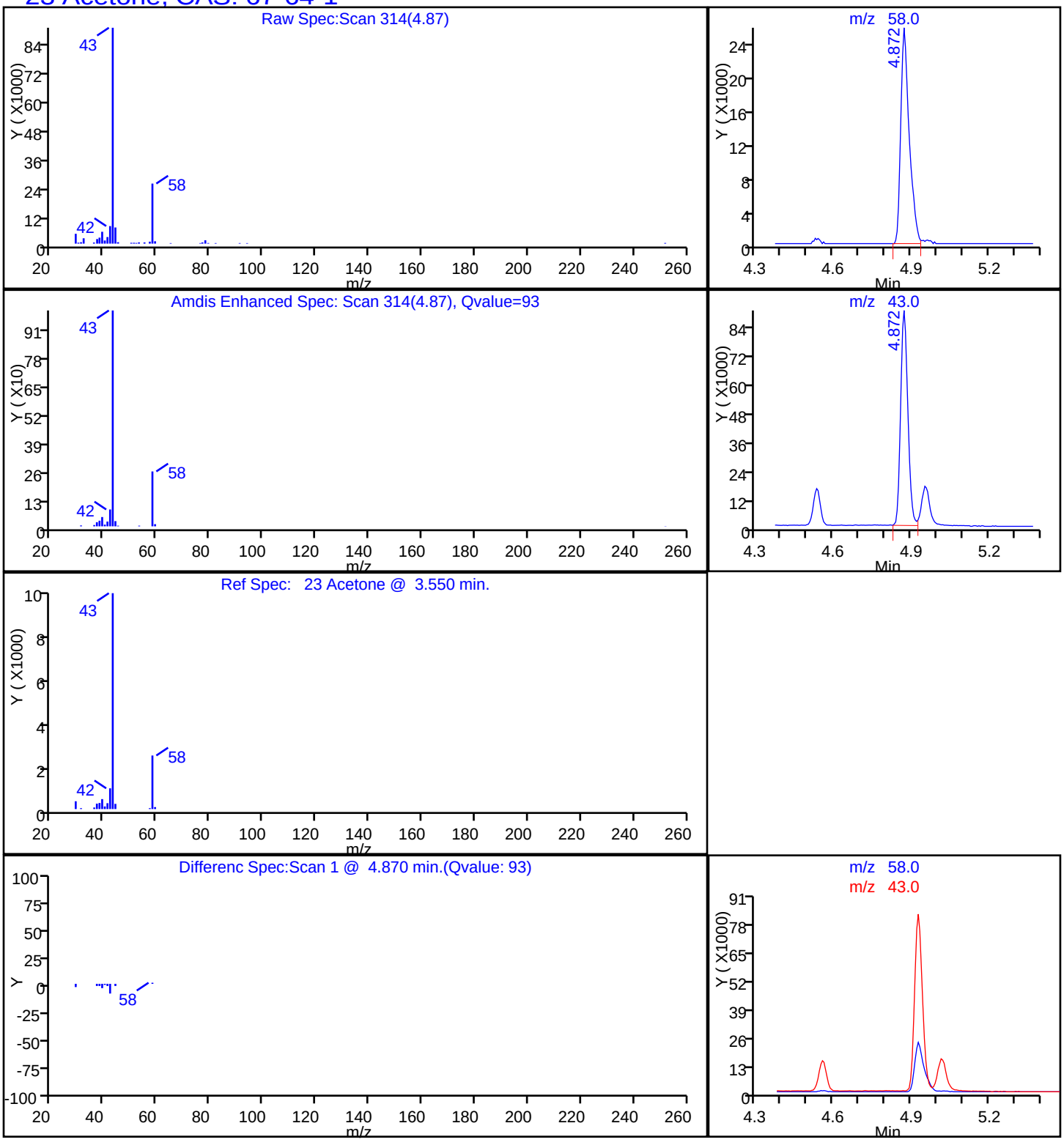
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



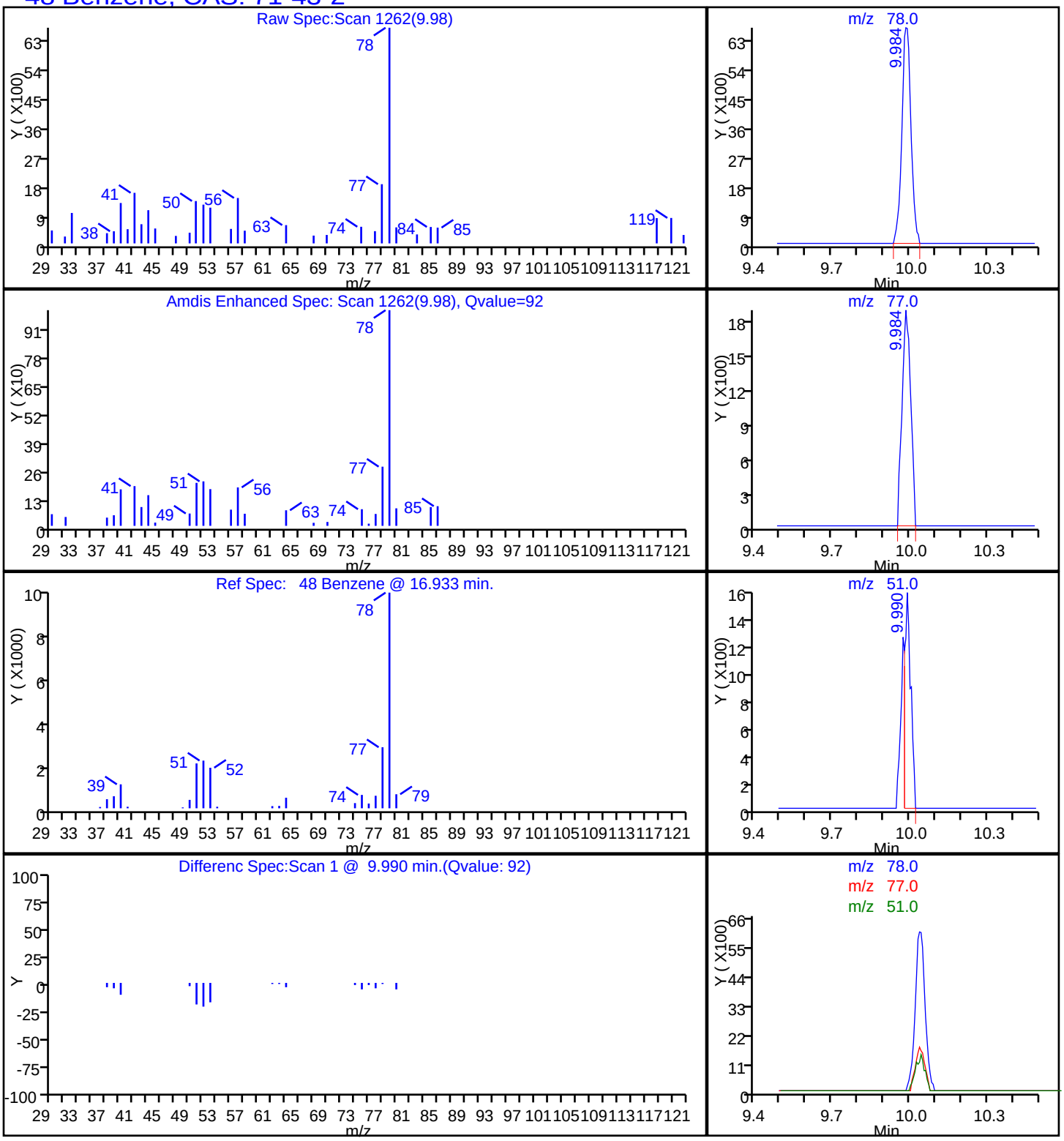
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



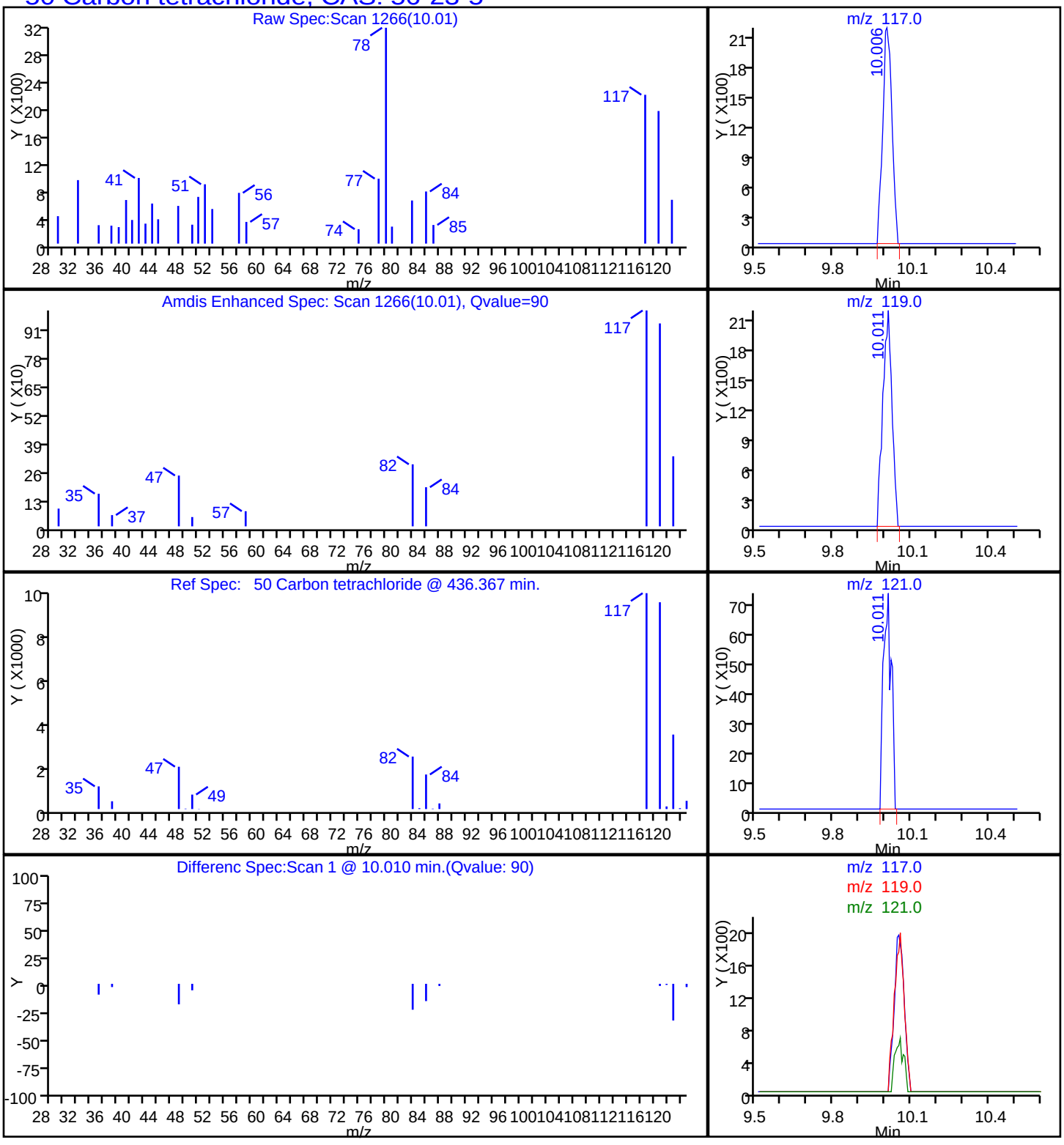
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



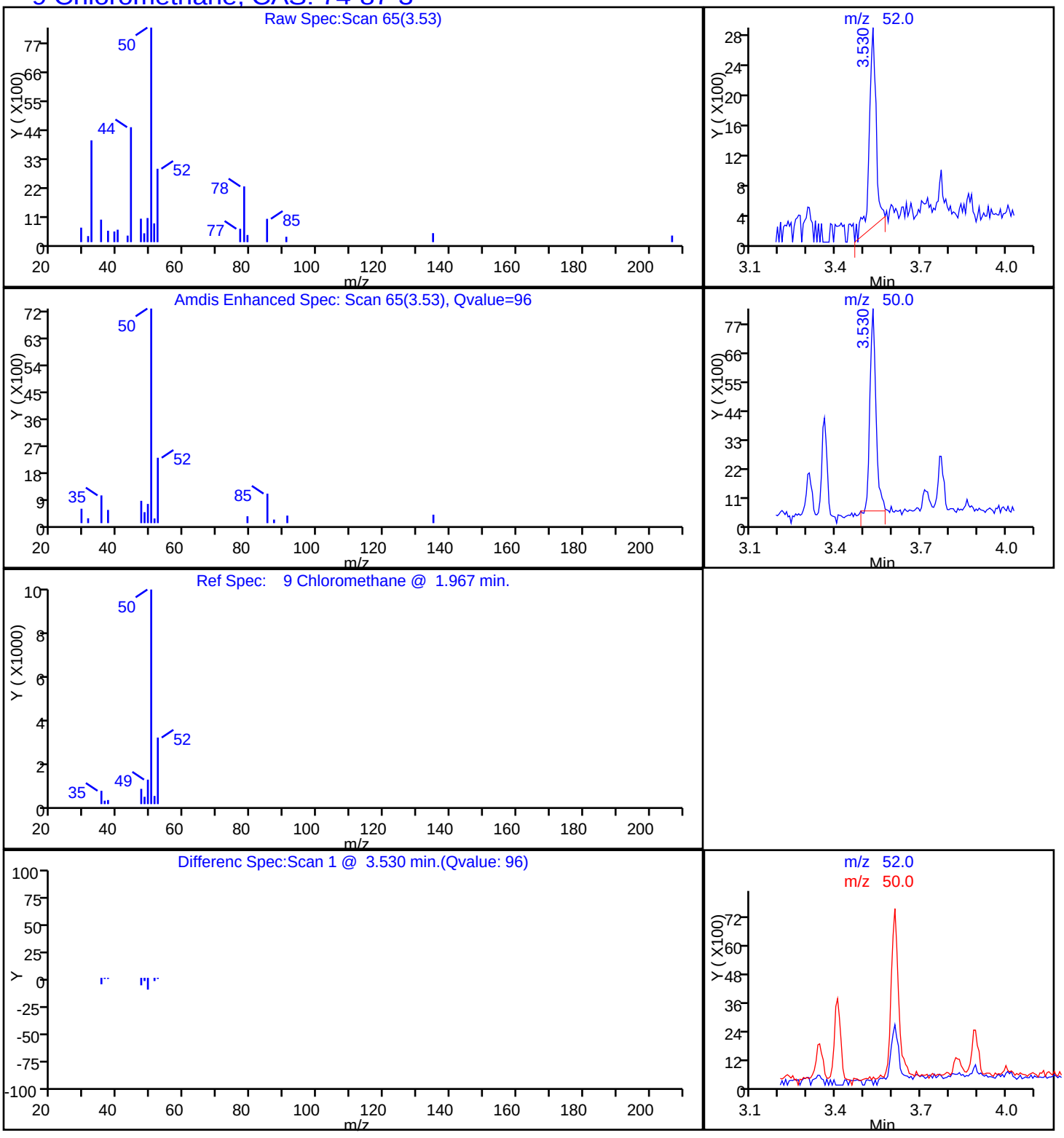
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date: 14-Mar-2014 06:16:30 Instrument ID: ME

Lims ID: 140-1037-A-13 Lab Sample ID: 140-1037-13

Client ID: PCV-AMB1

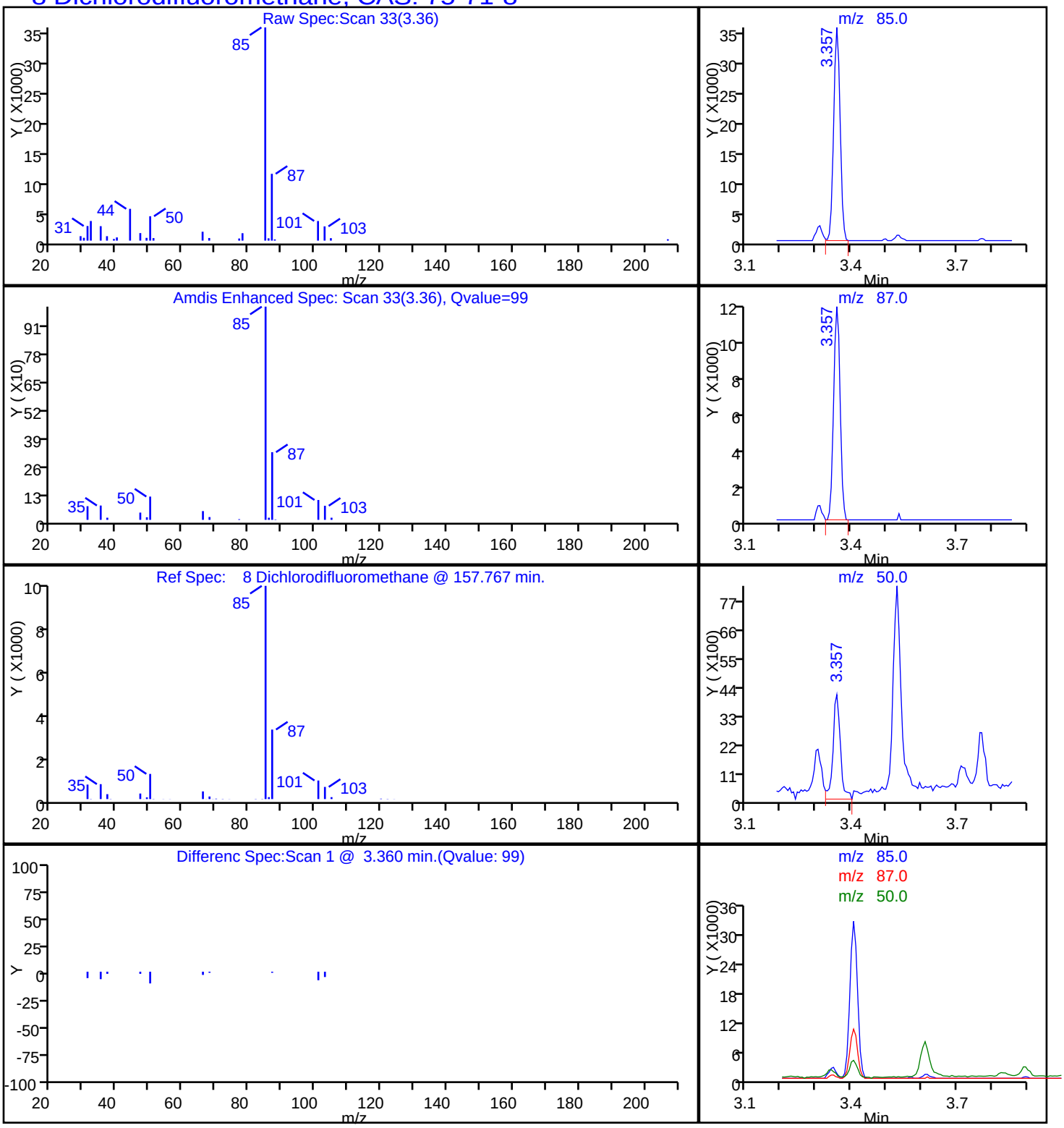
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



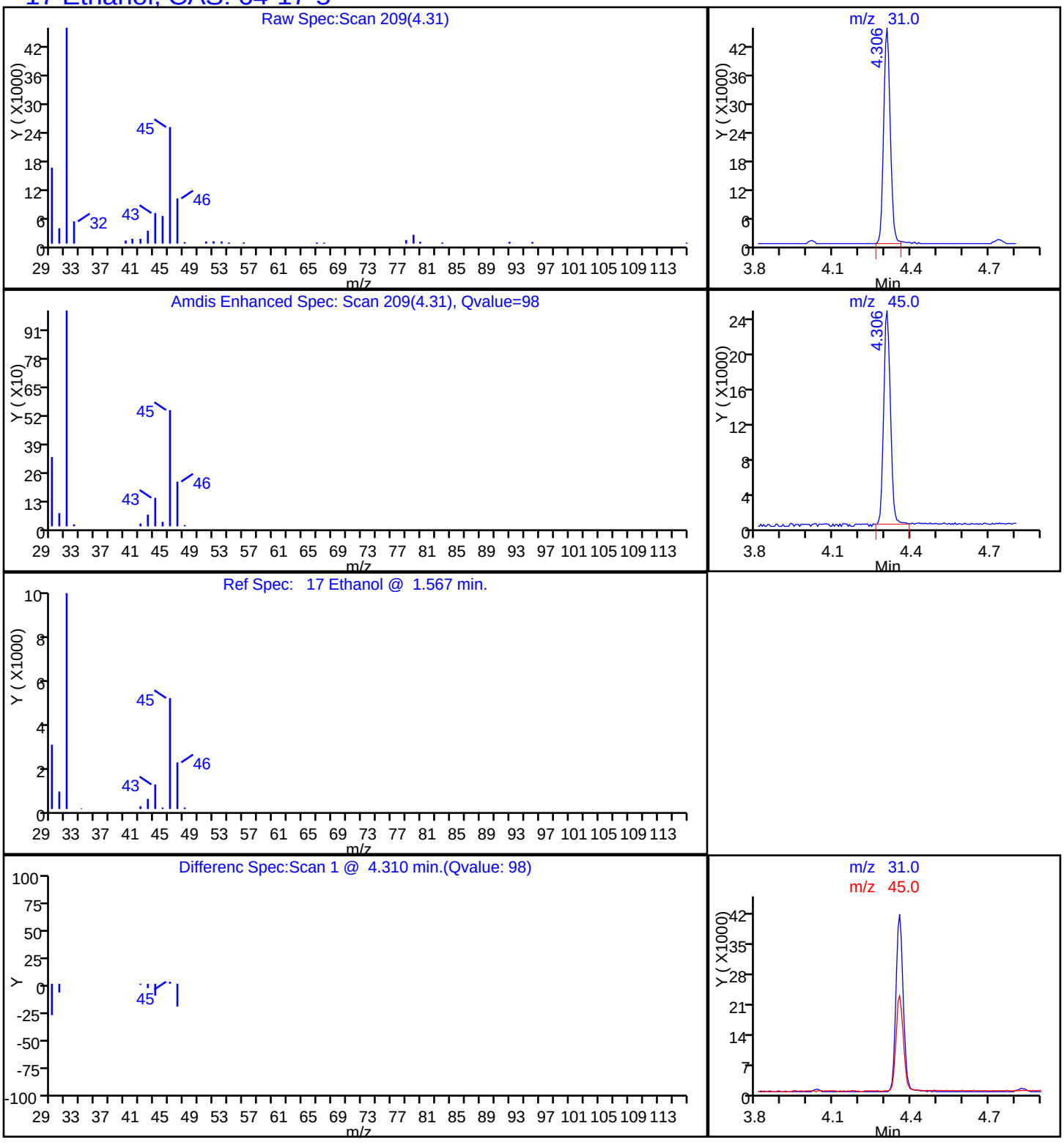
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



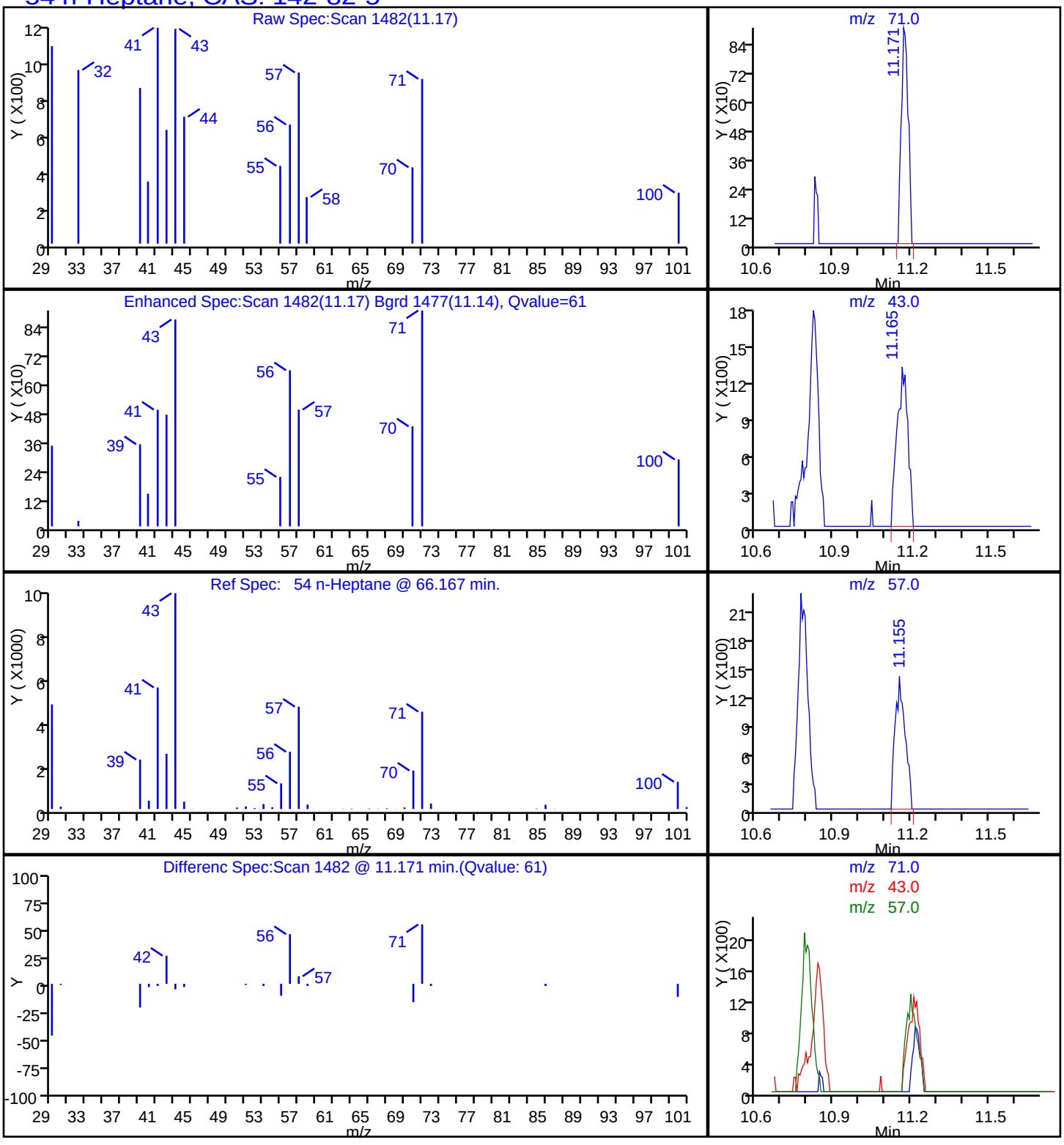
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



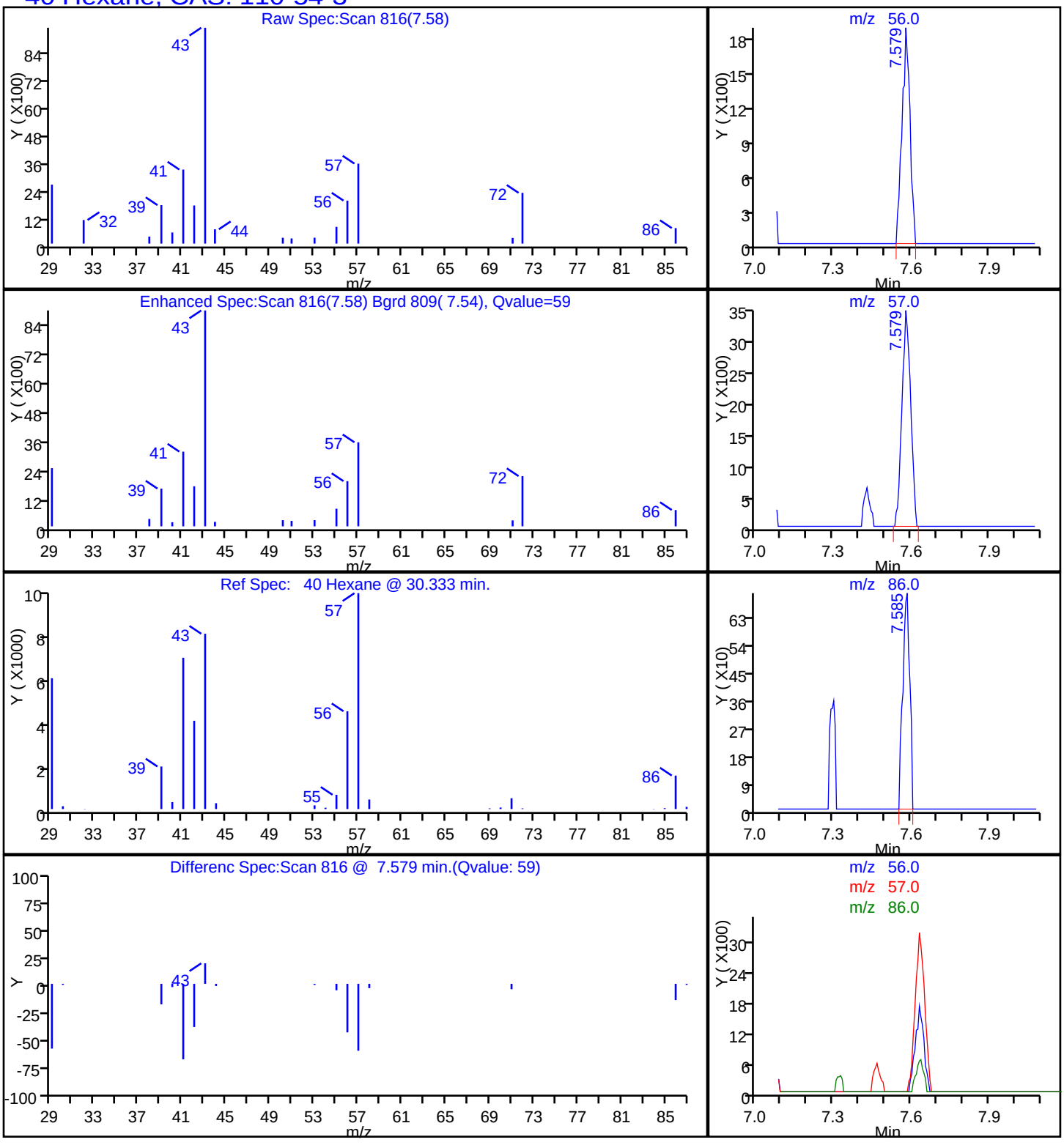
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3

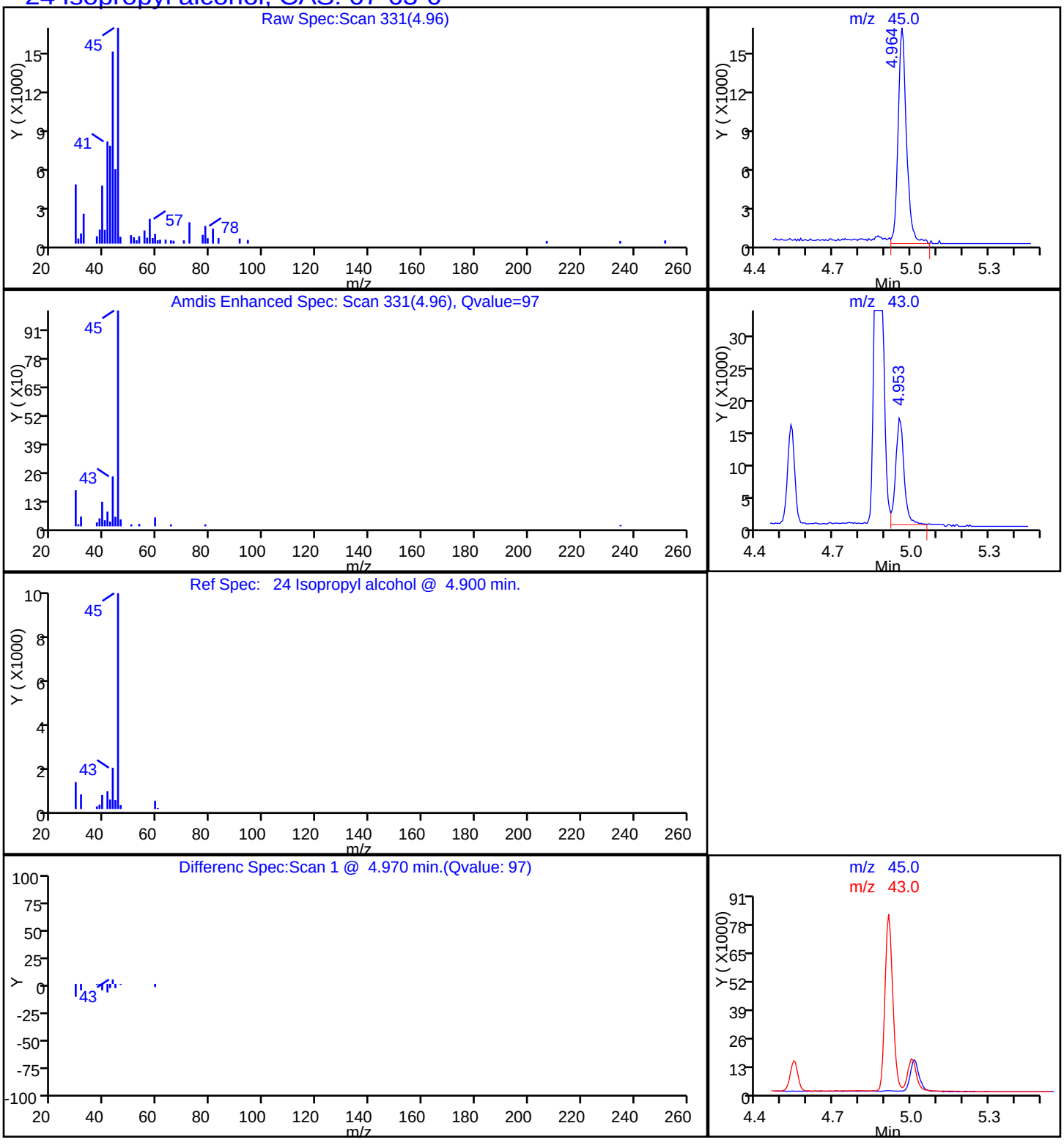


Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D		
Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



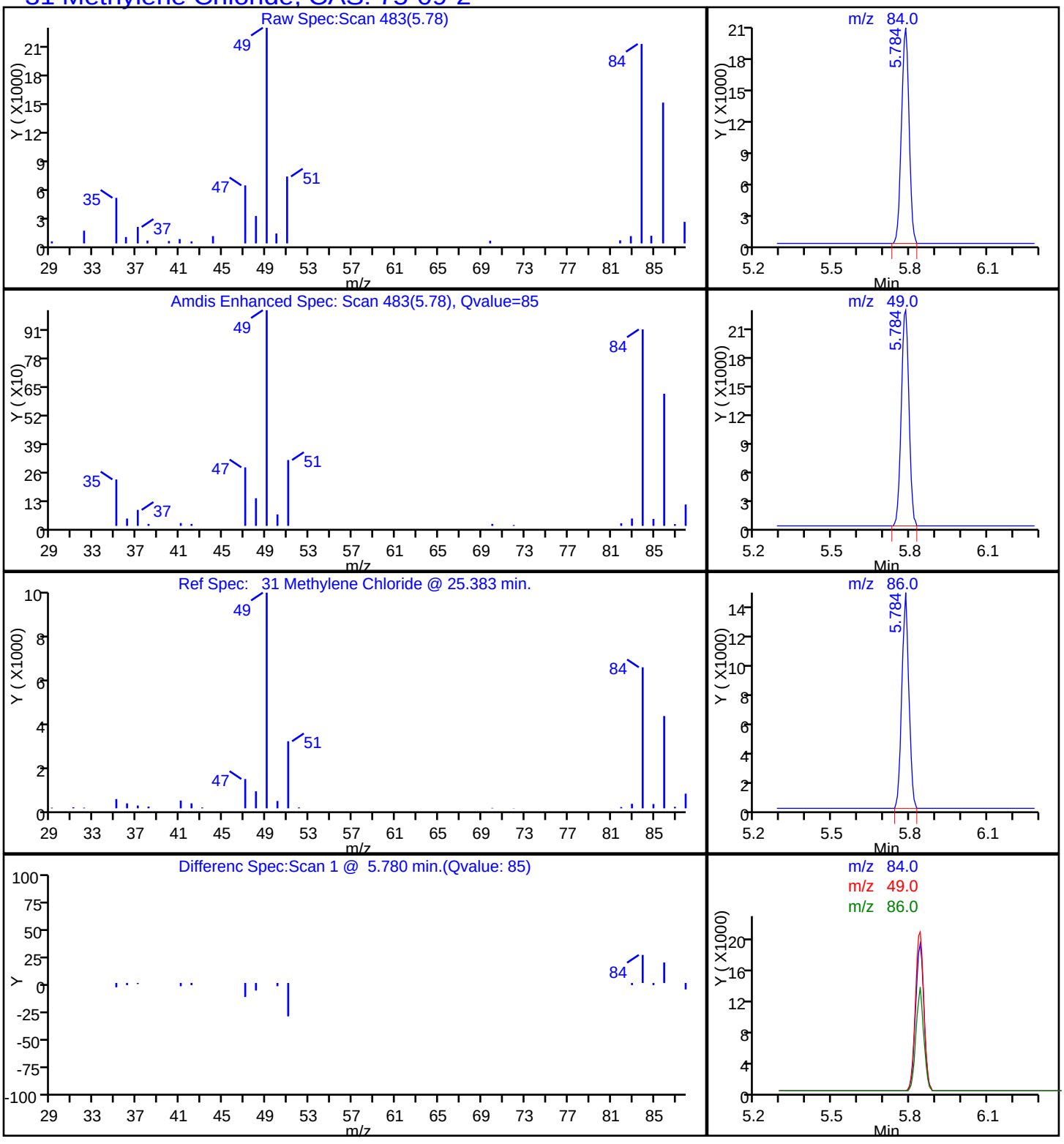
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME		
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13		
Client ID:	PCV-AMB1				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date: 14-Mar-2014 06:16:30 Instrument ID: ME

Lims ID: 140-1037-A-13 Lab Sample ID: 140-1037-13

Client ID: PCV-AMB1

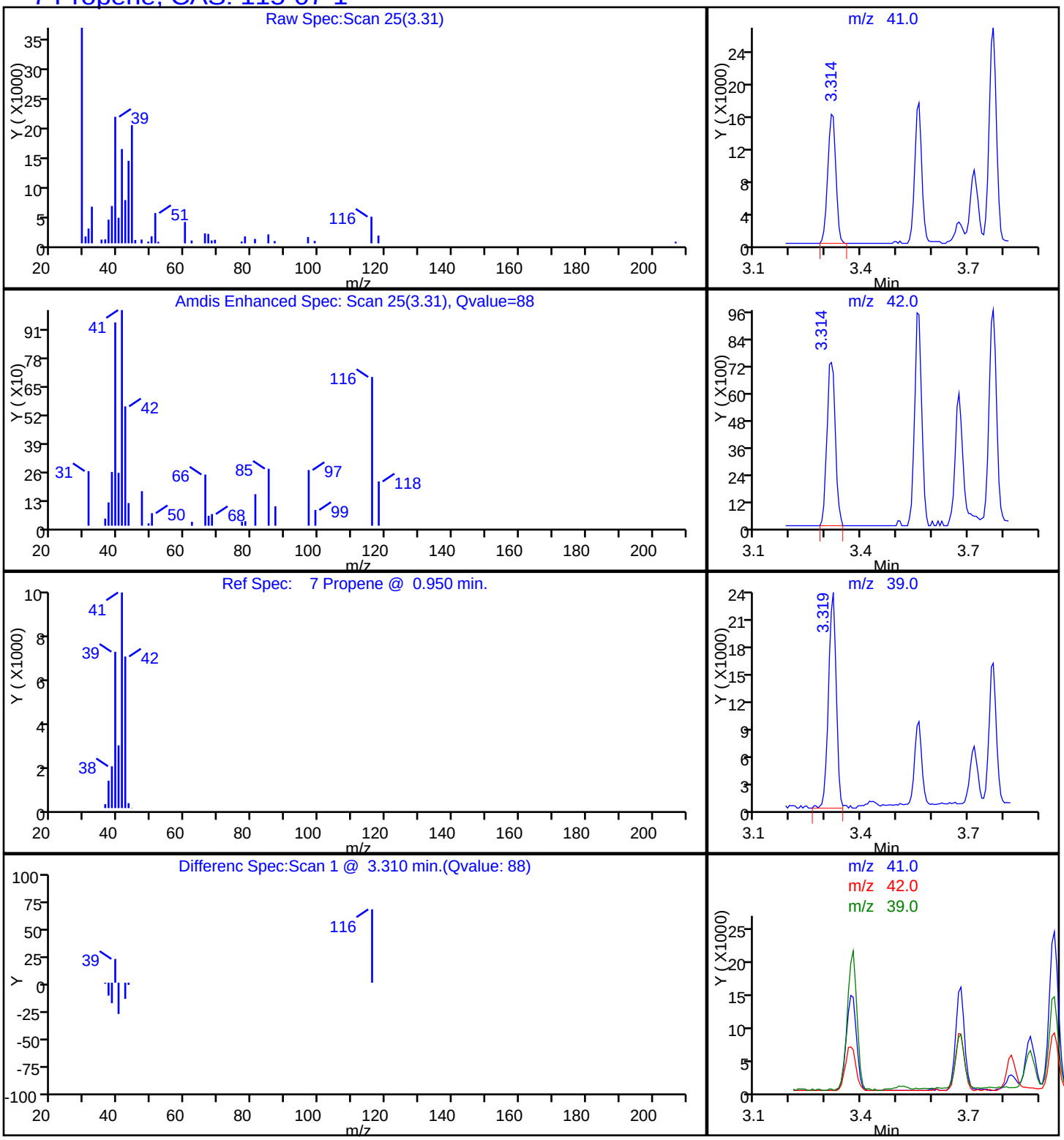
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



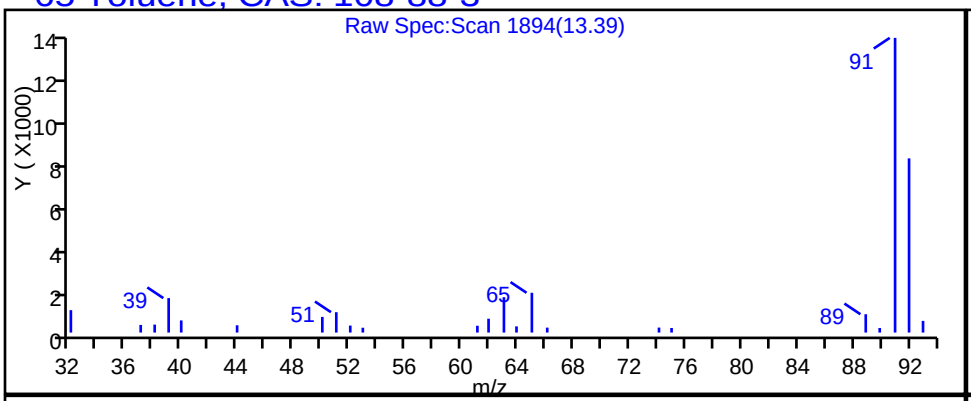
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

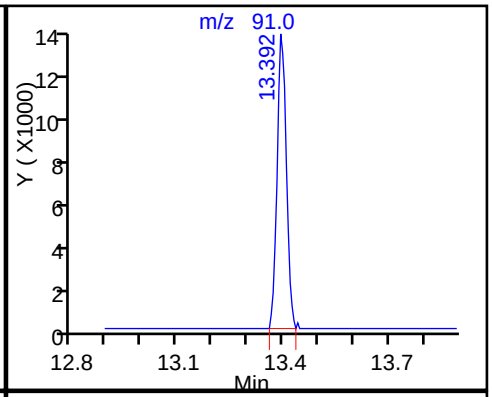
TestAmerica Knoxville

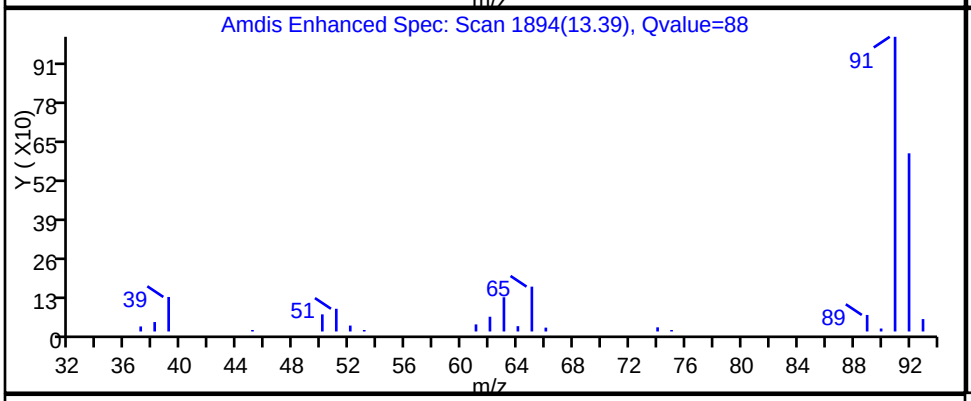
Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

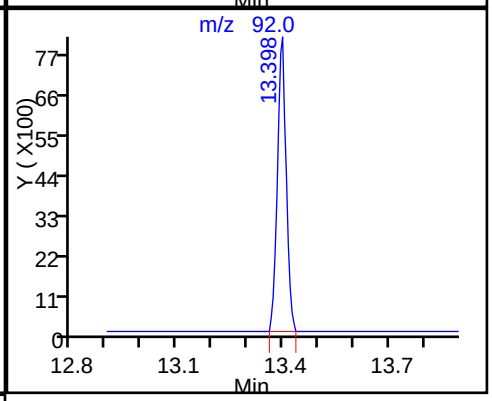
Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

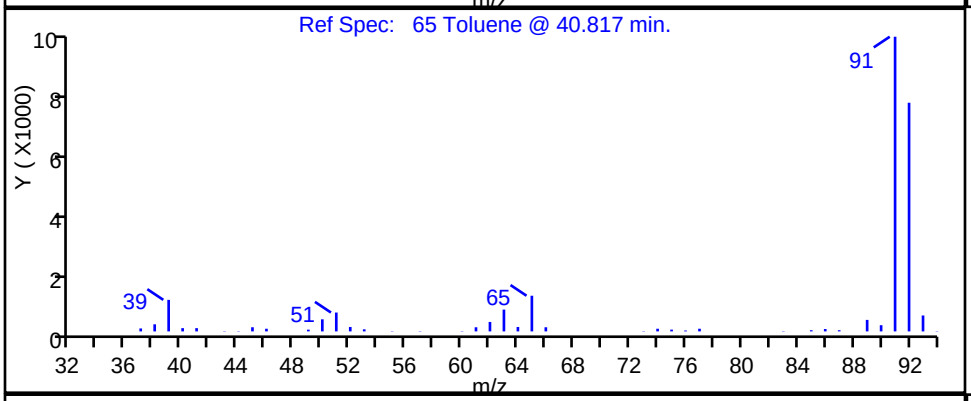
65 Toluene, CAS: 108-88-3

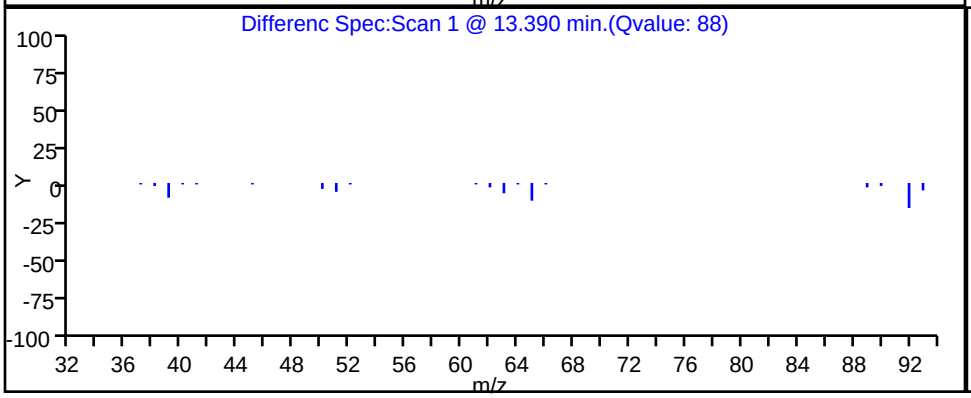


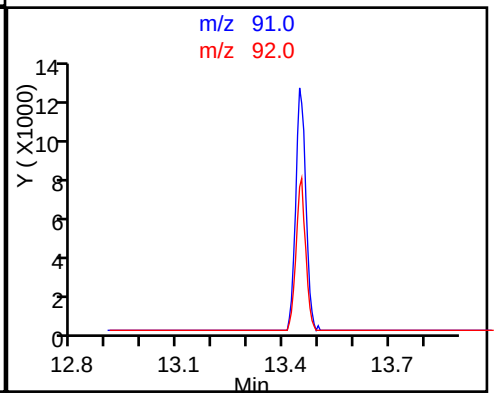












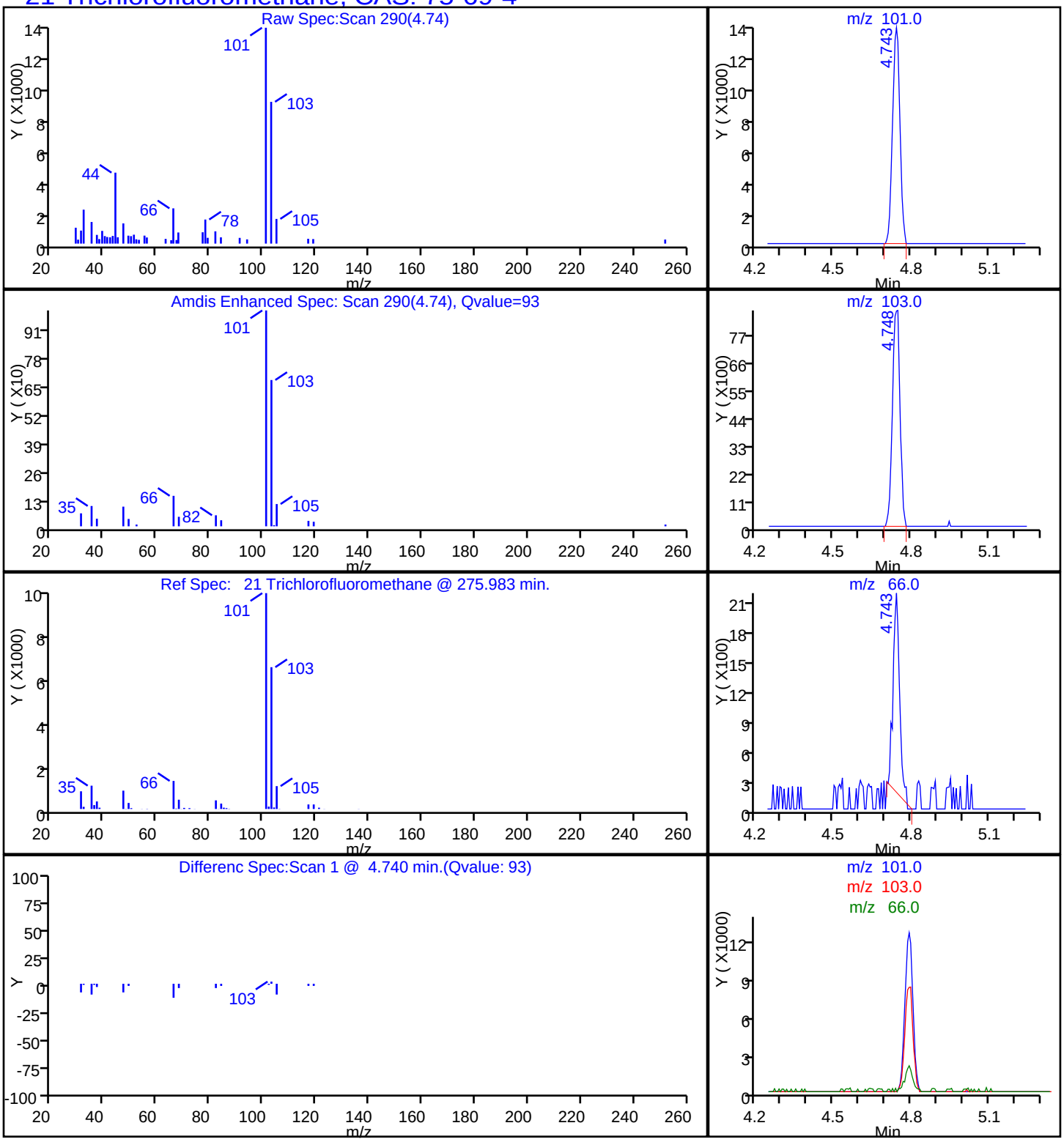
Report Date: 14-Mar-2014 07:31:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EC13P204.D

Injection Date:	14-Mar-2014 06:16:30	Instrument ID:	ME
Lims ID:	140-1037-A-13	Lab Sample ID:	140-1037-13
Client ID:	PCV-AMB1		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

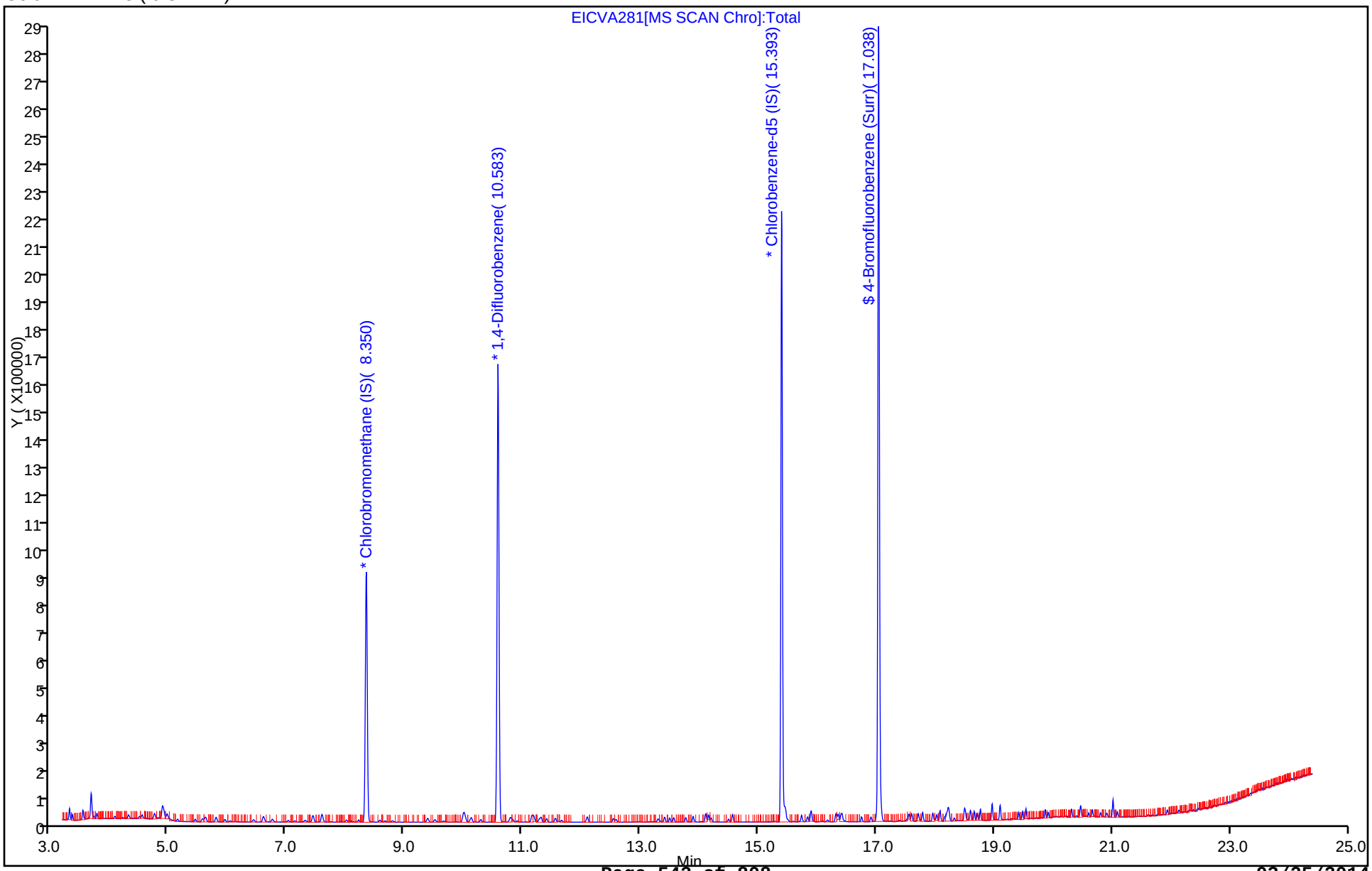
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

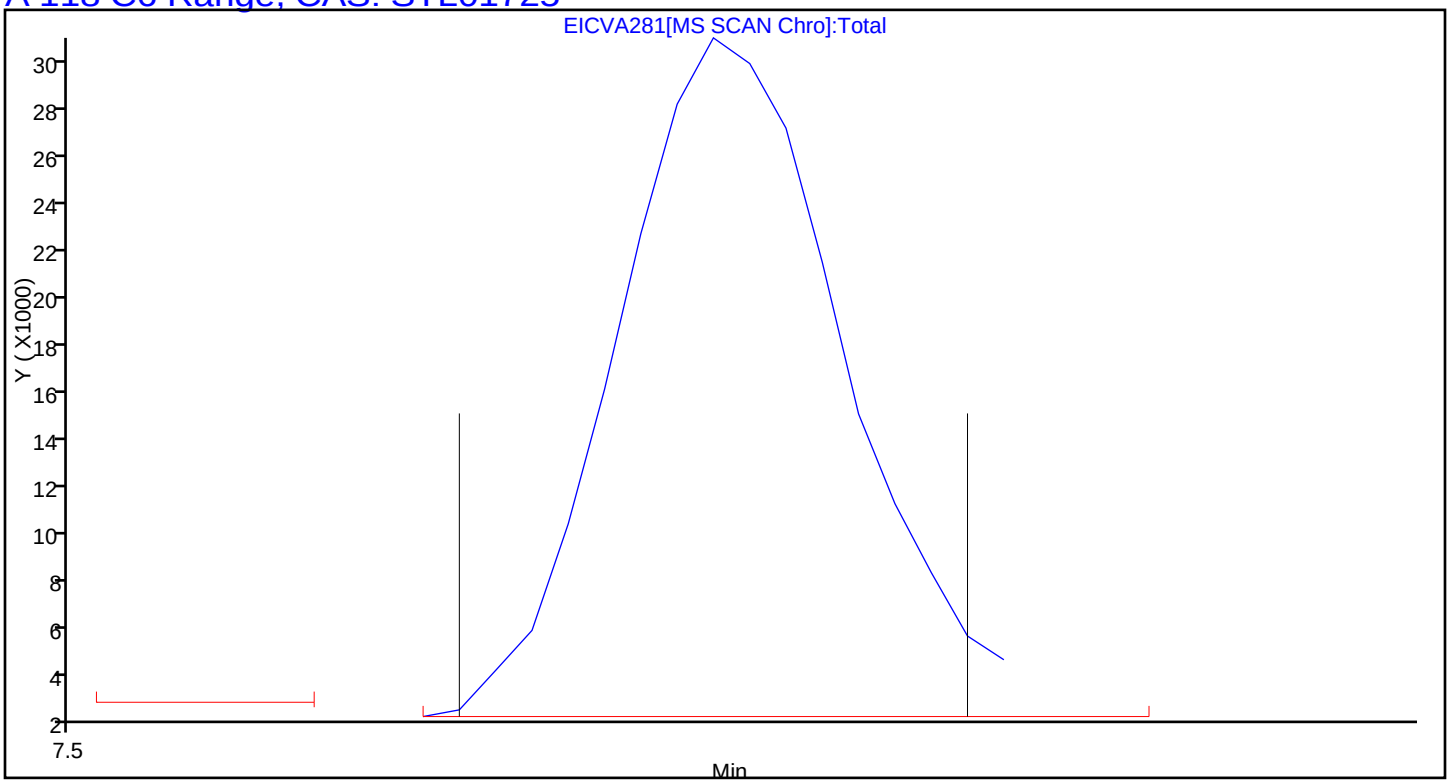


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

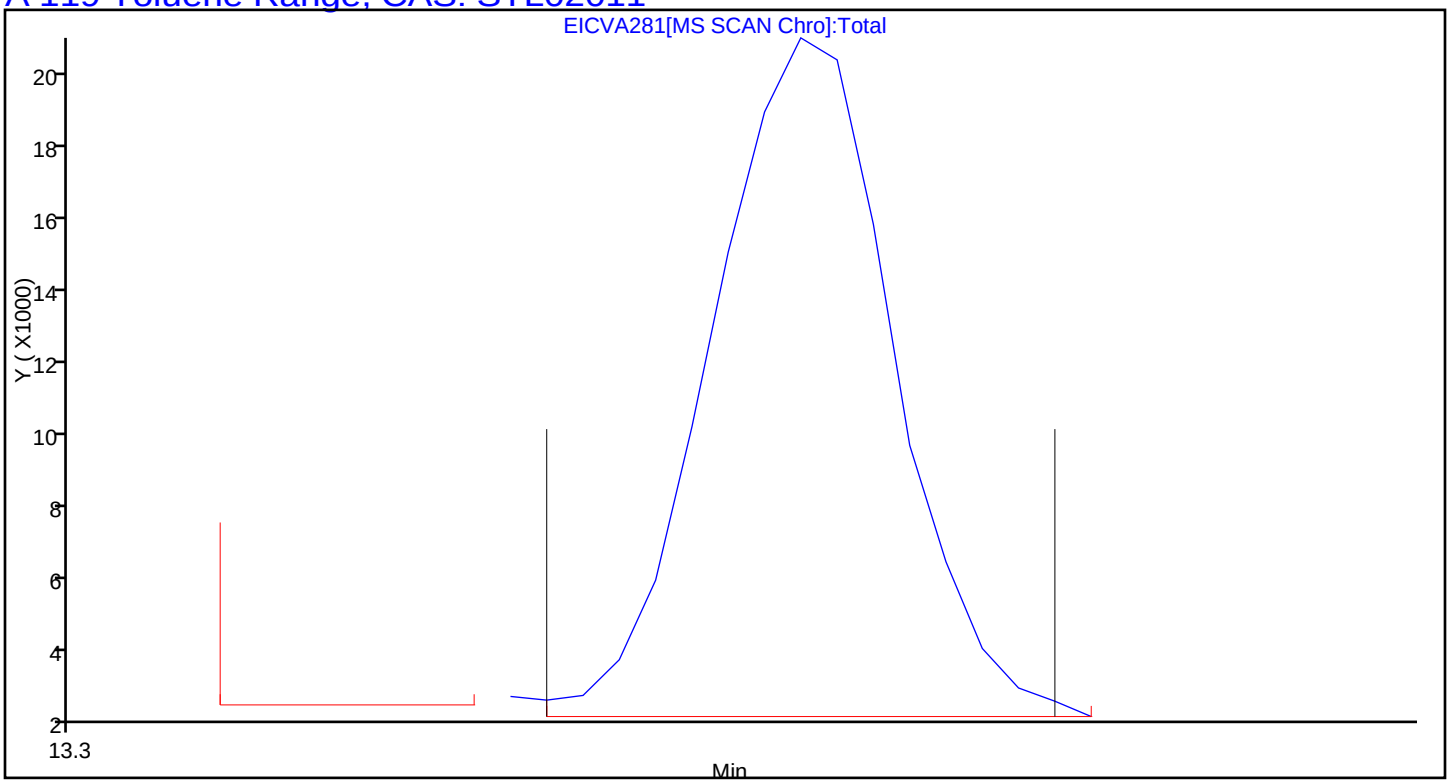


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

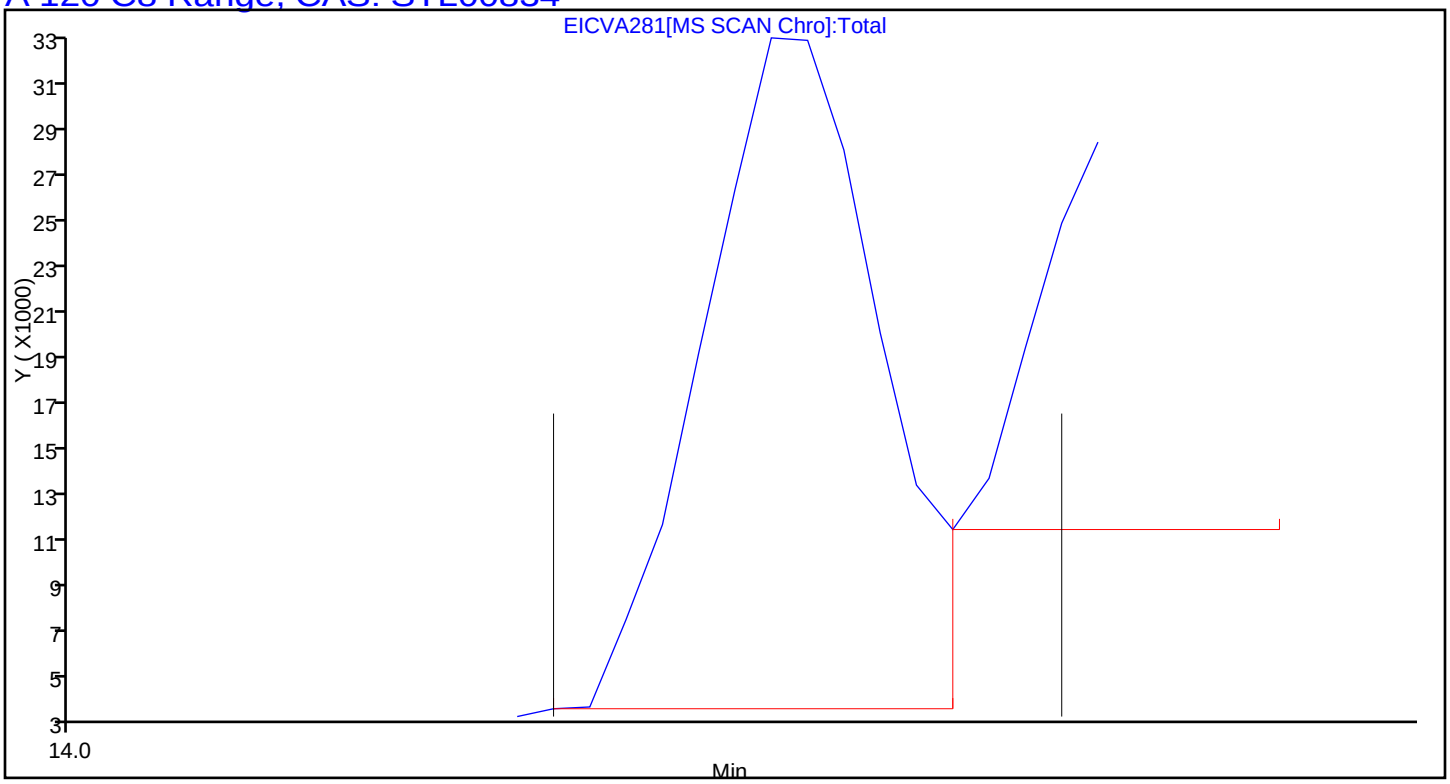


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

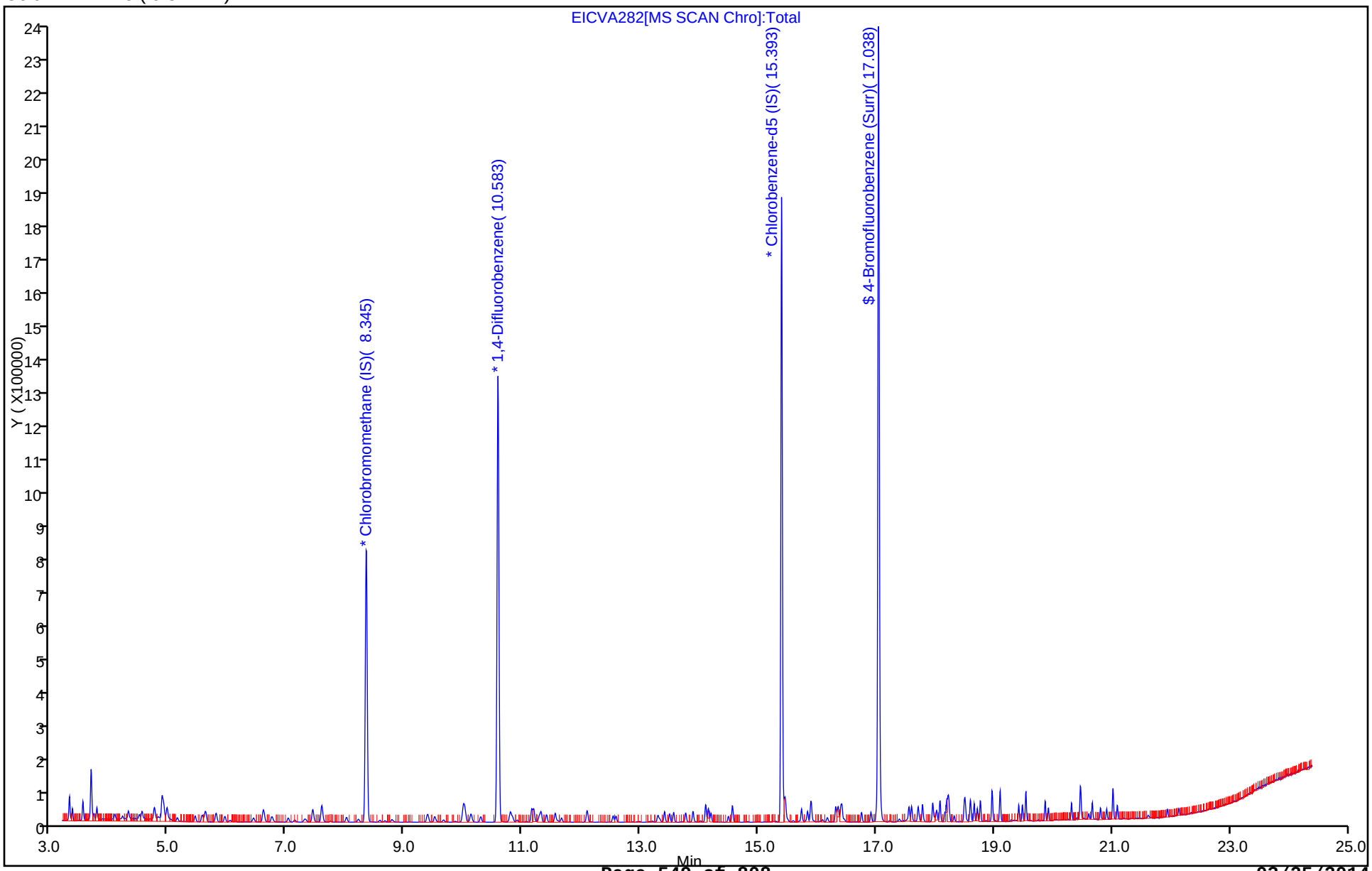
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

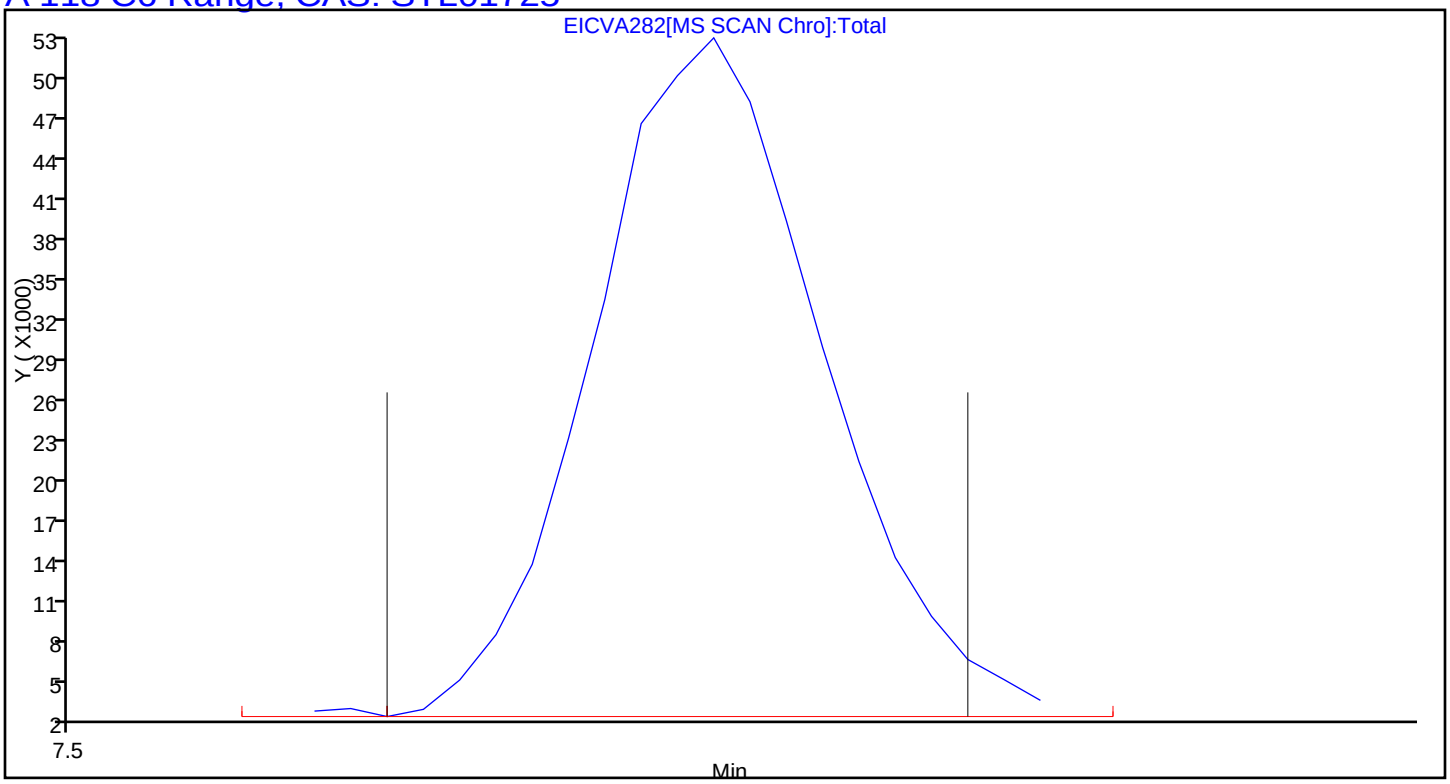


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

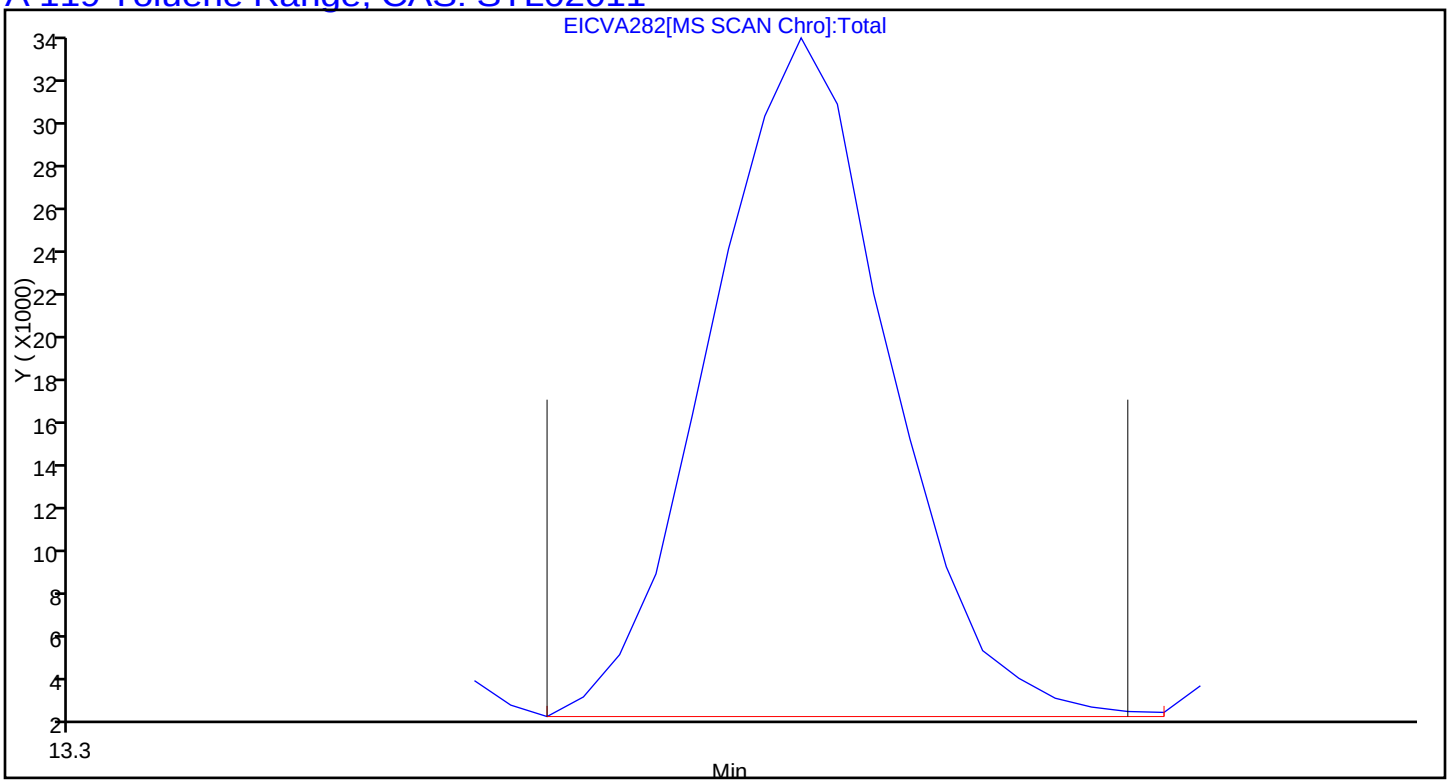


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

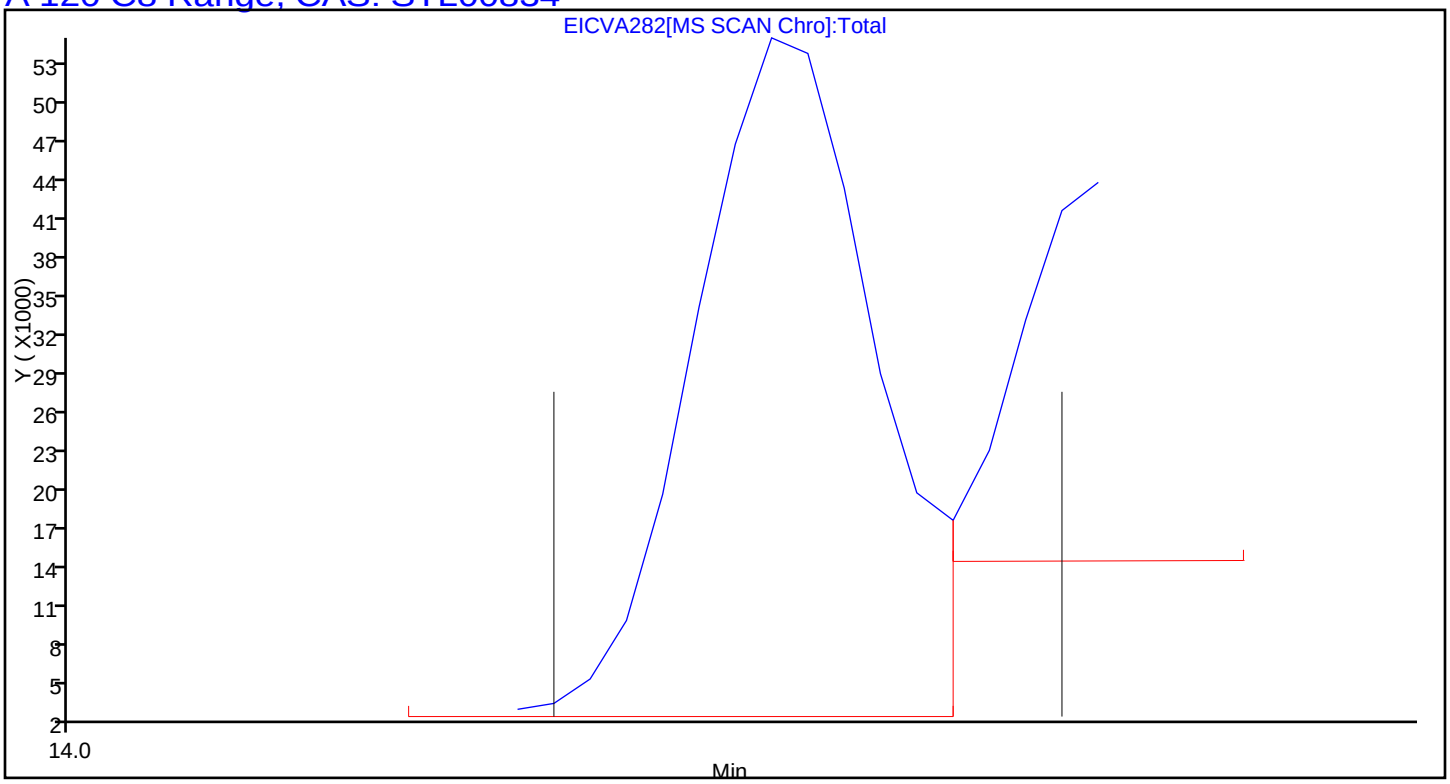


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

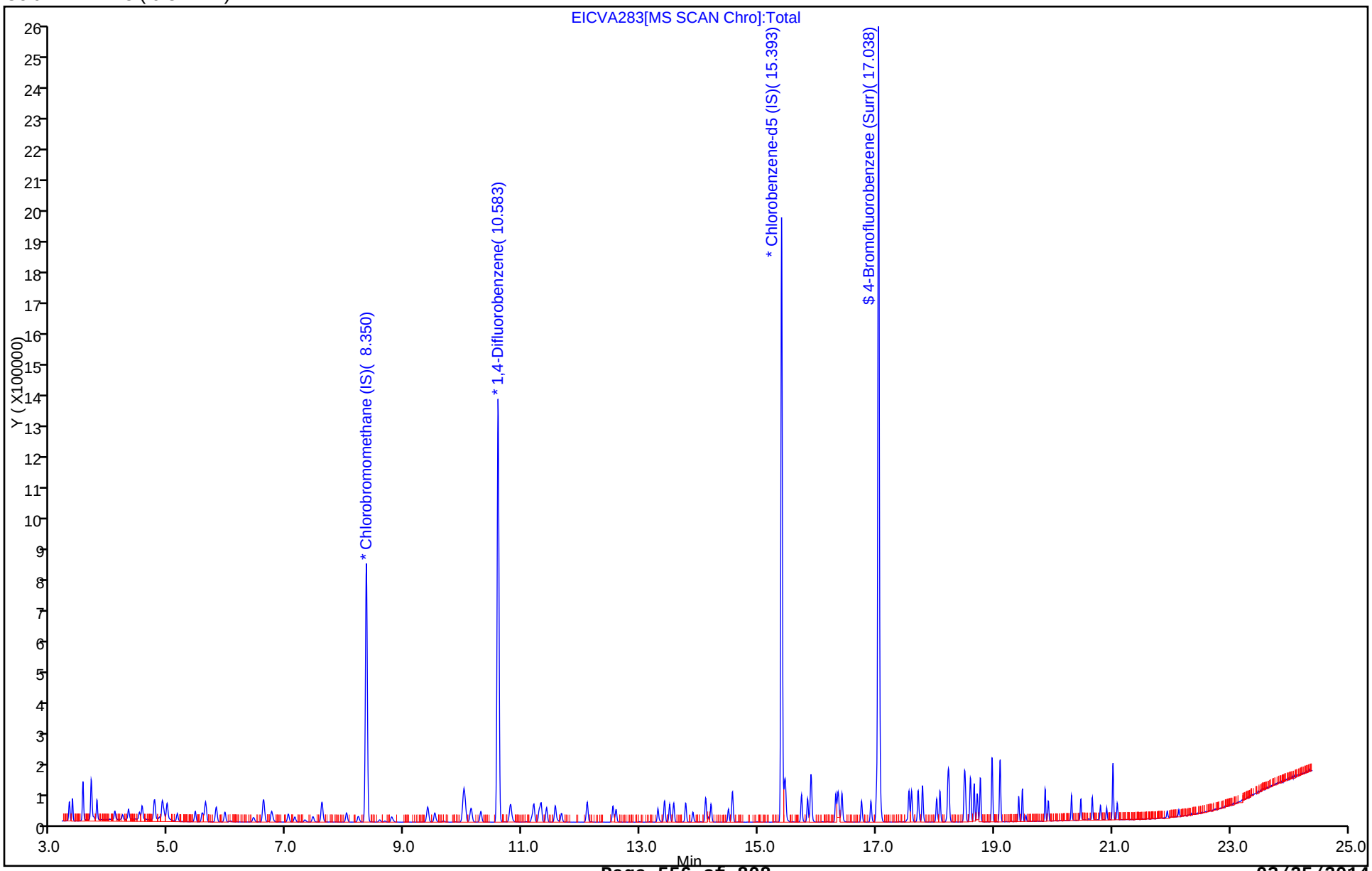
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

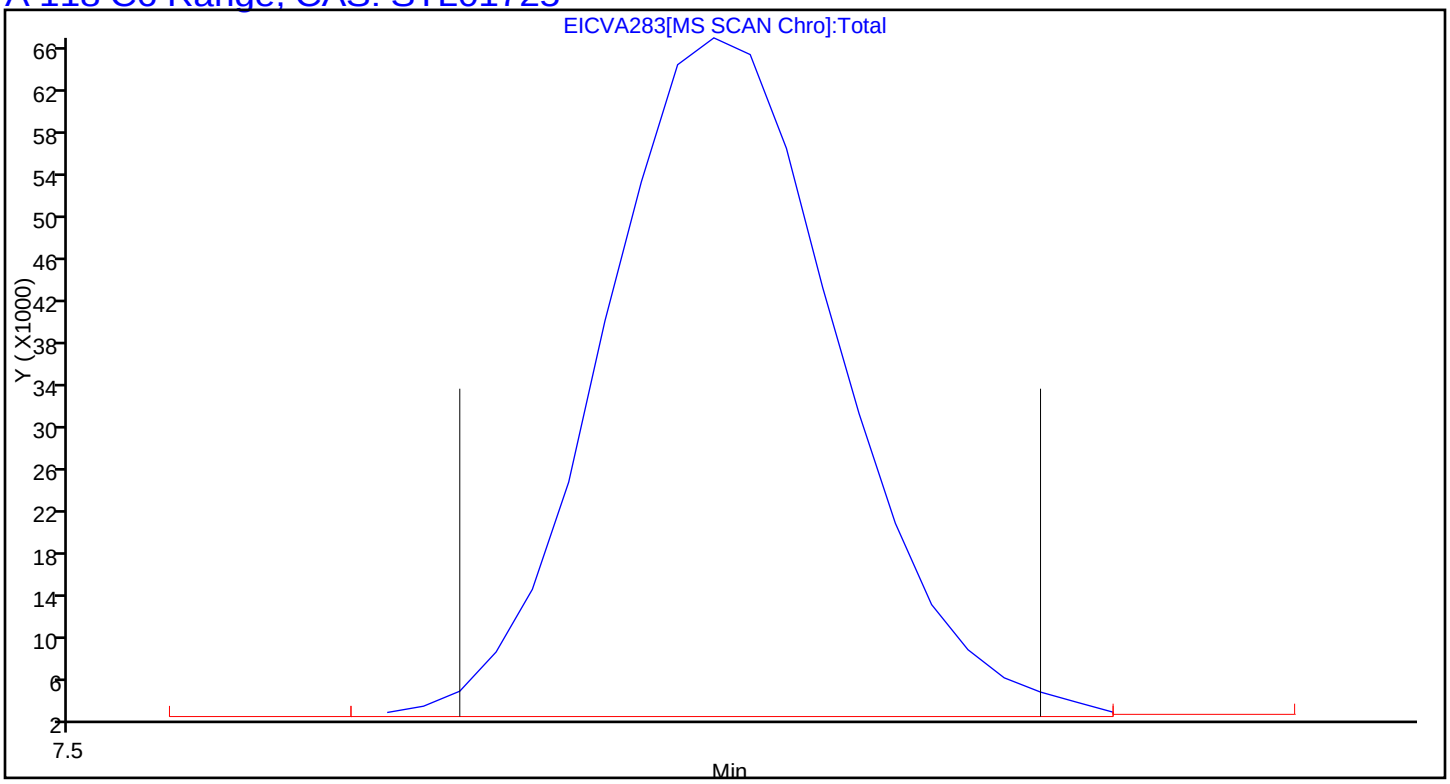


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

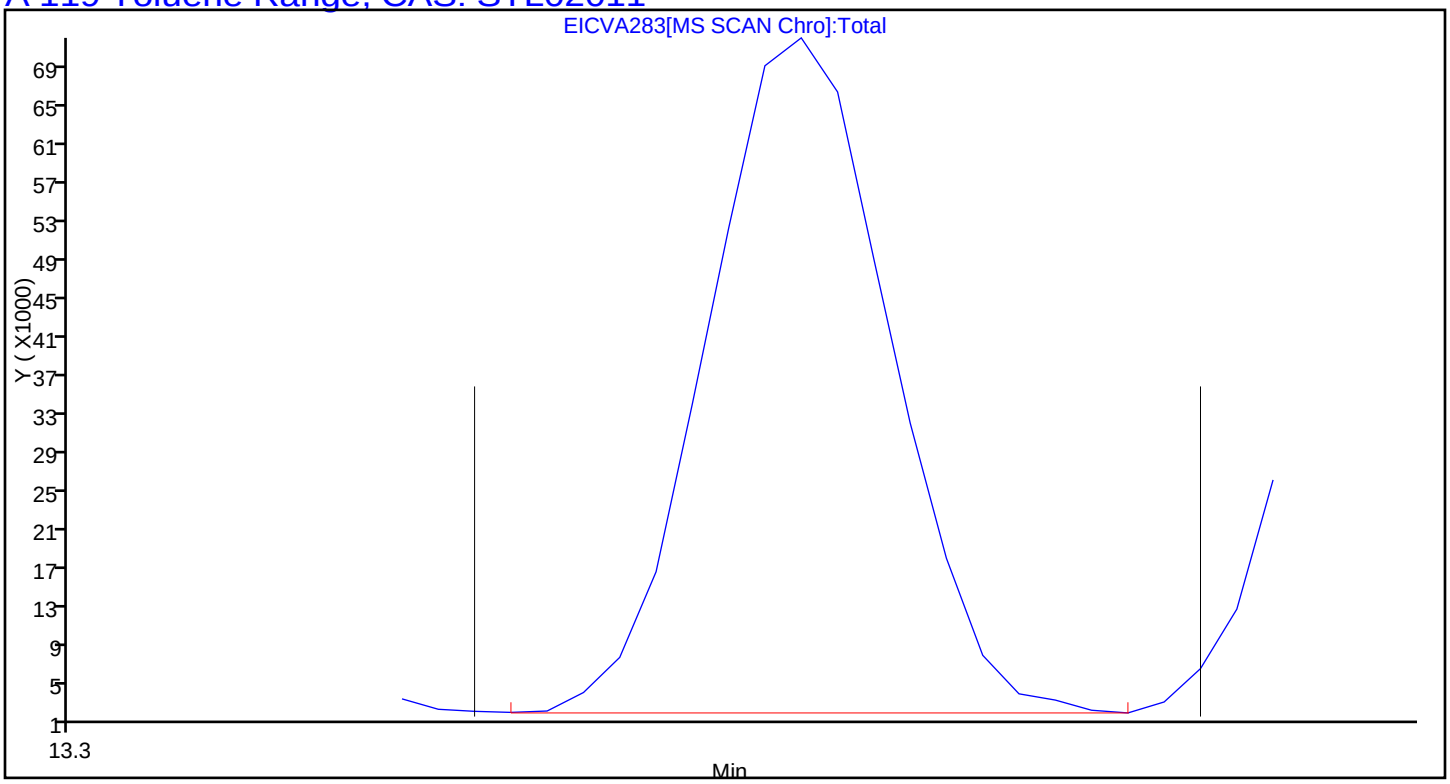


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

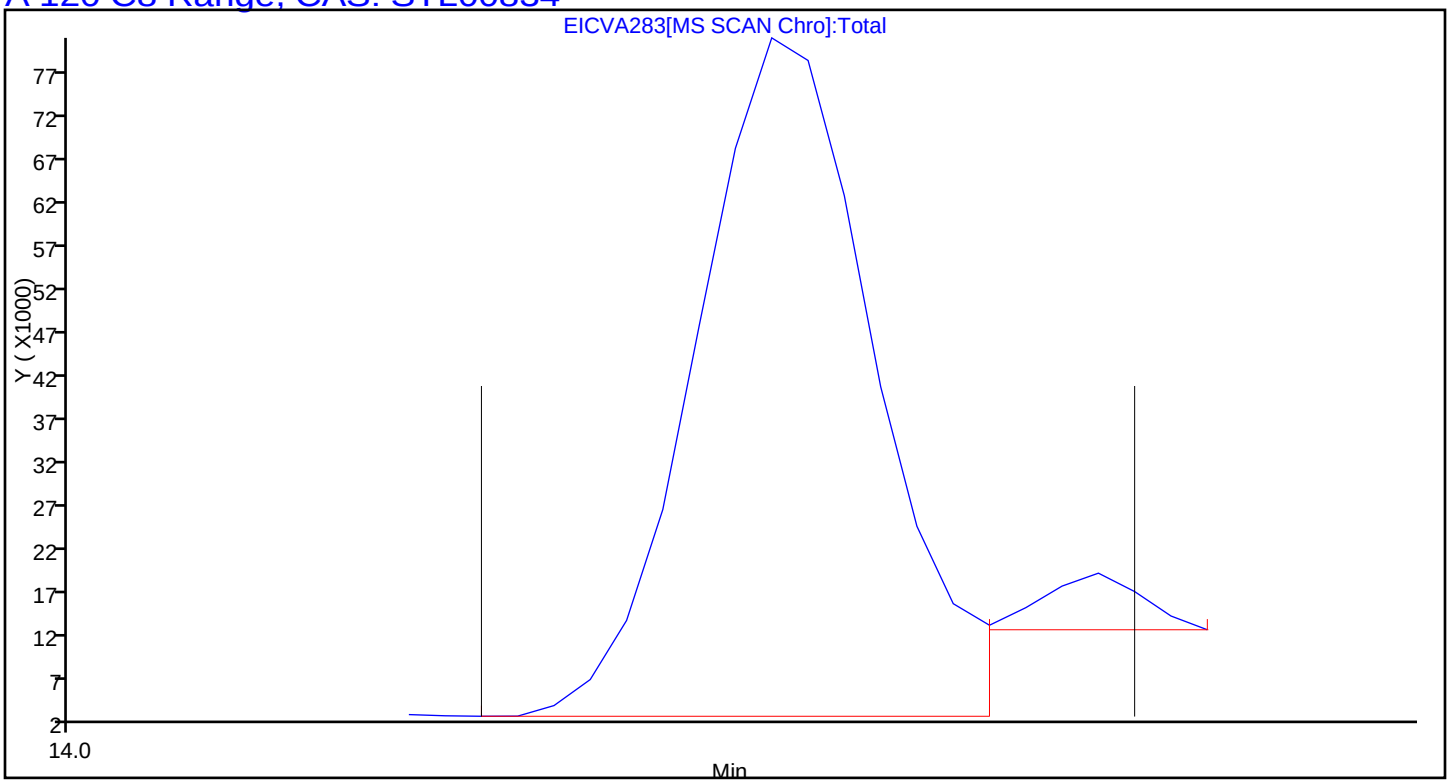


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

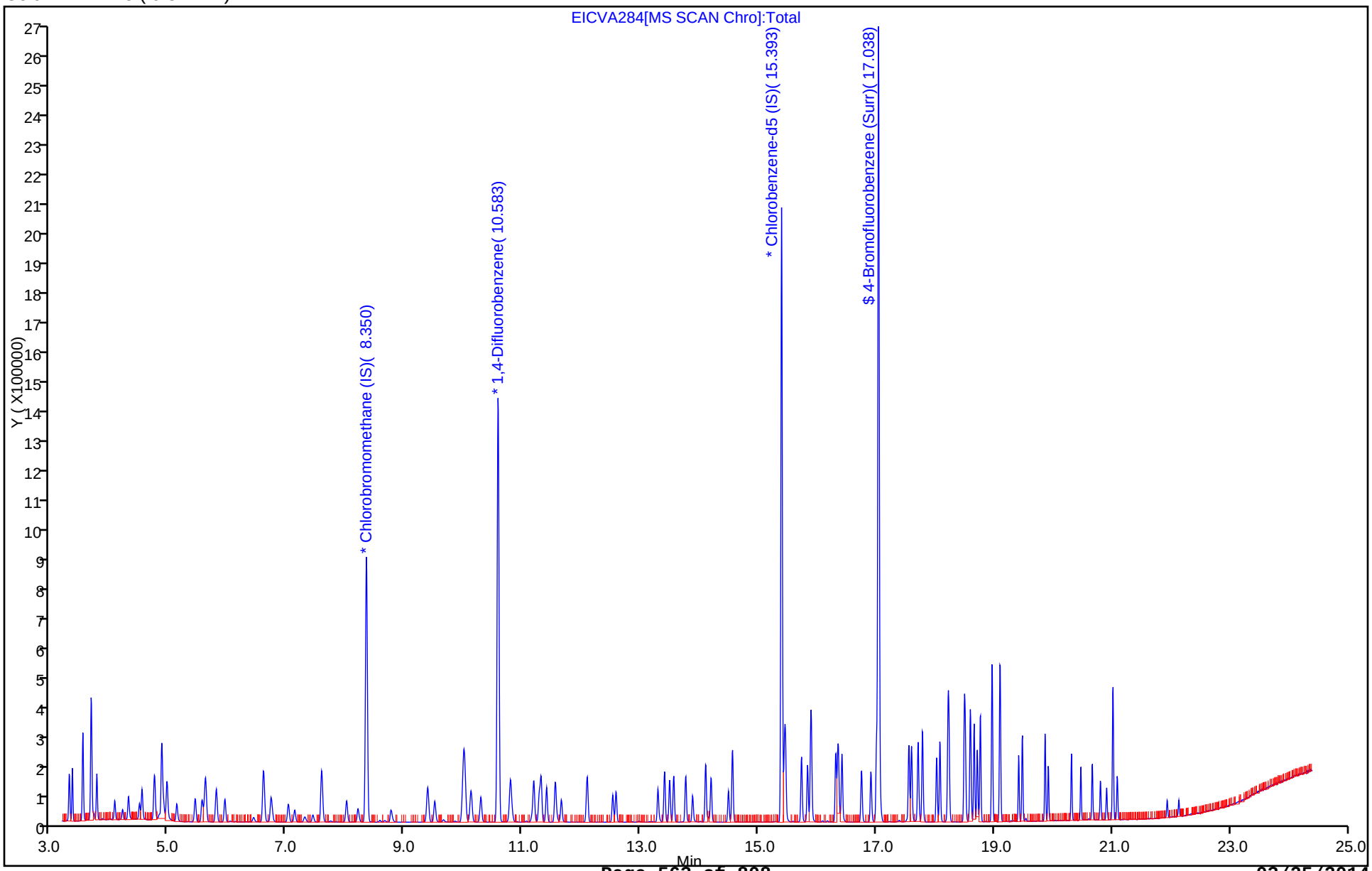
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

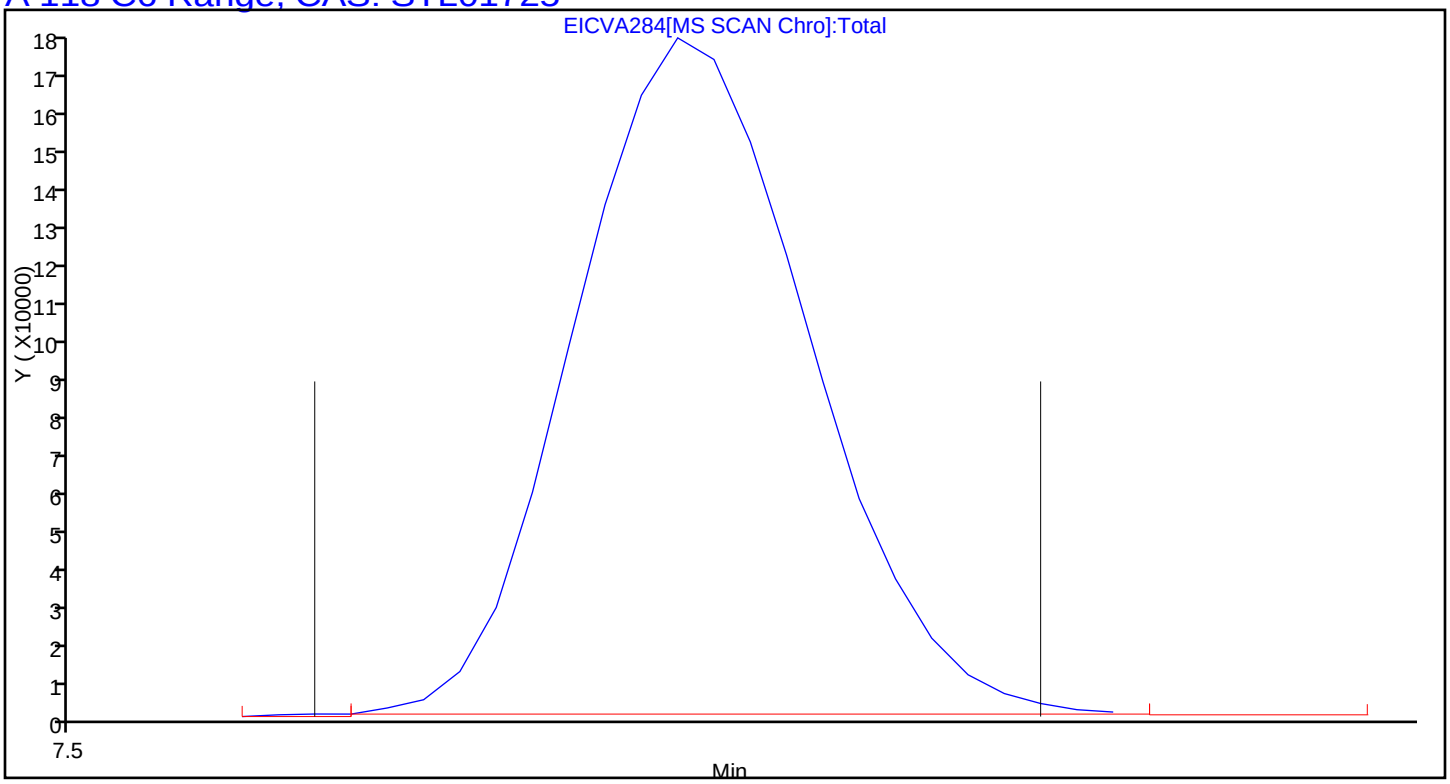


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

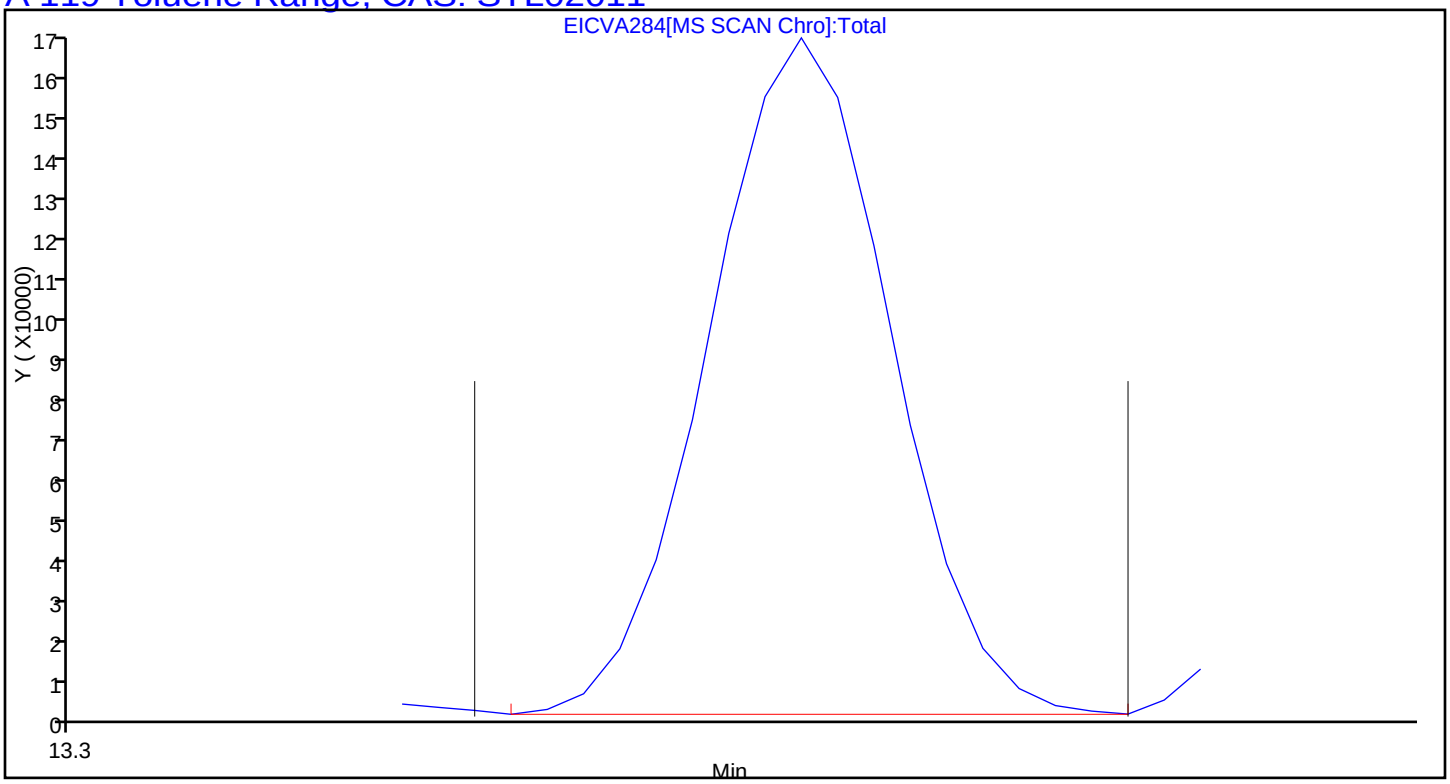


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

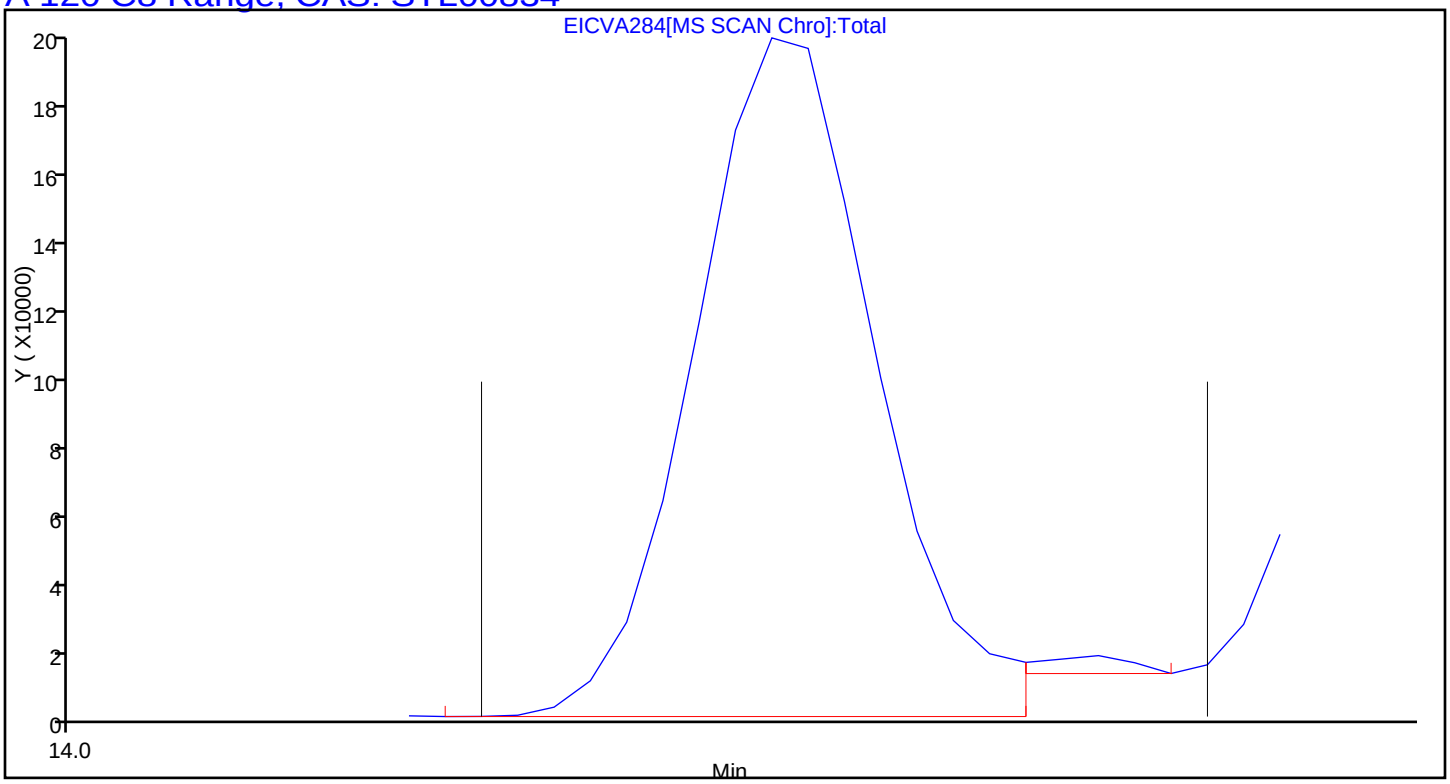


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

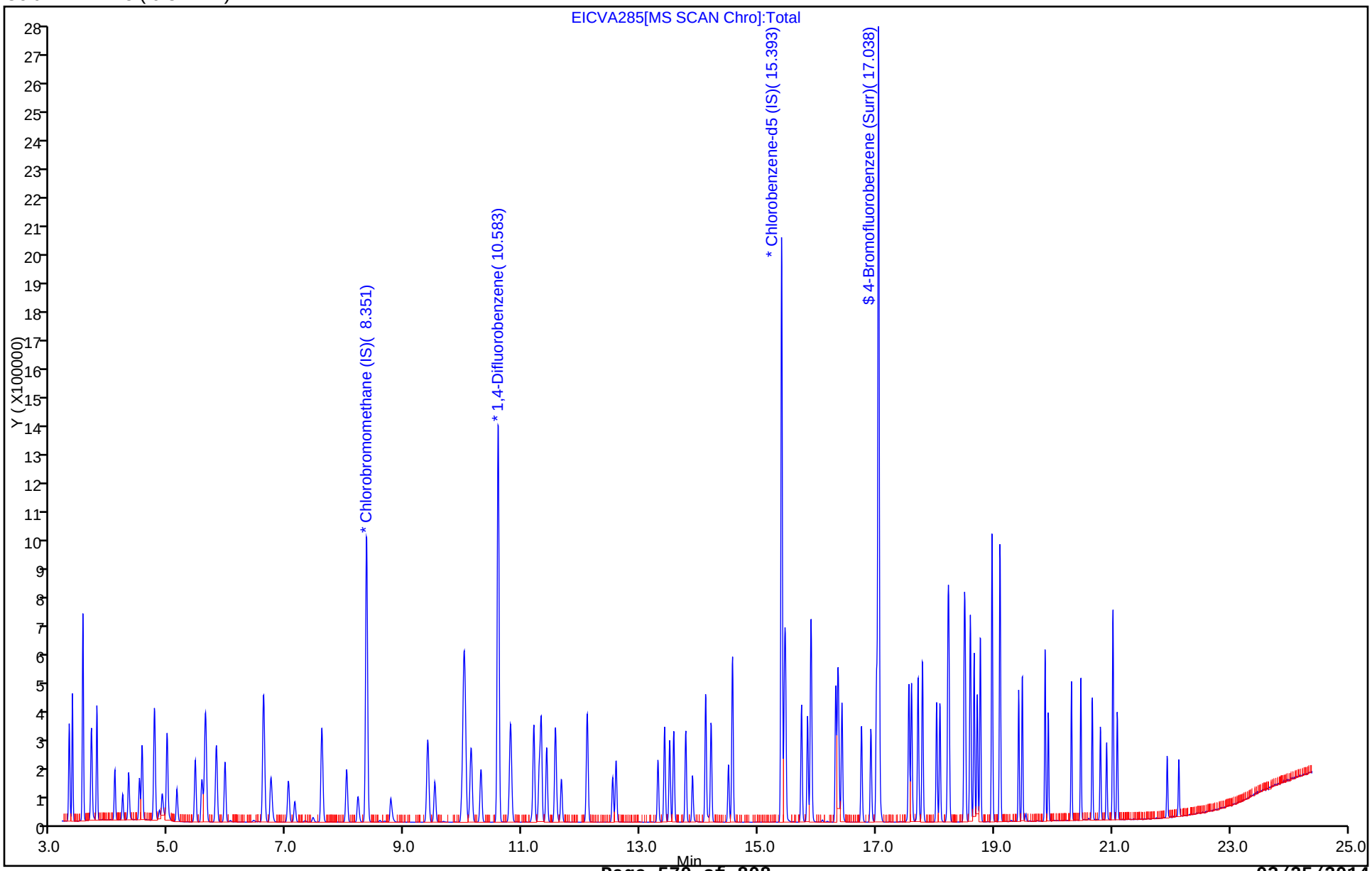
Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

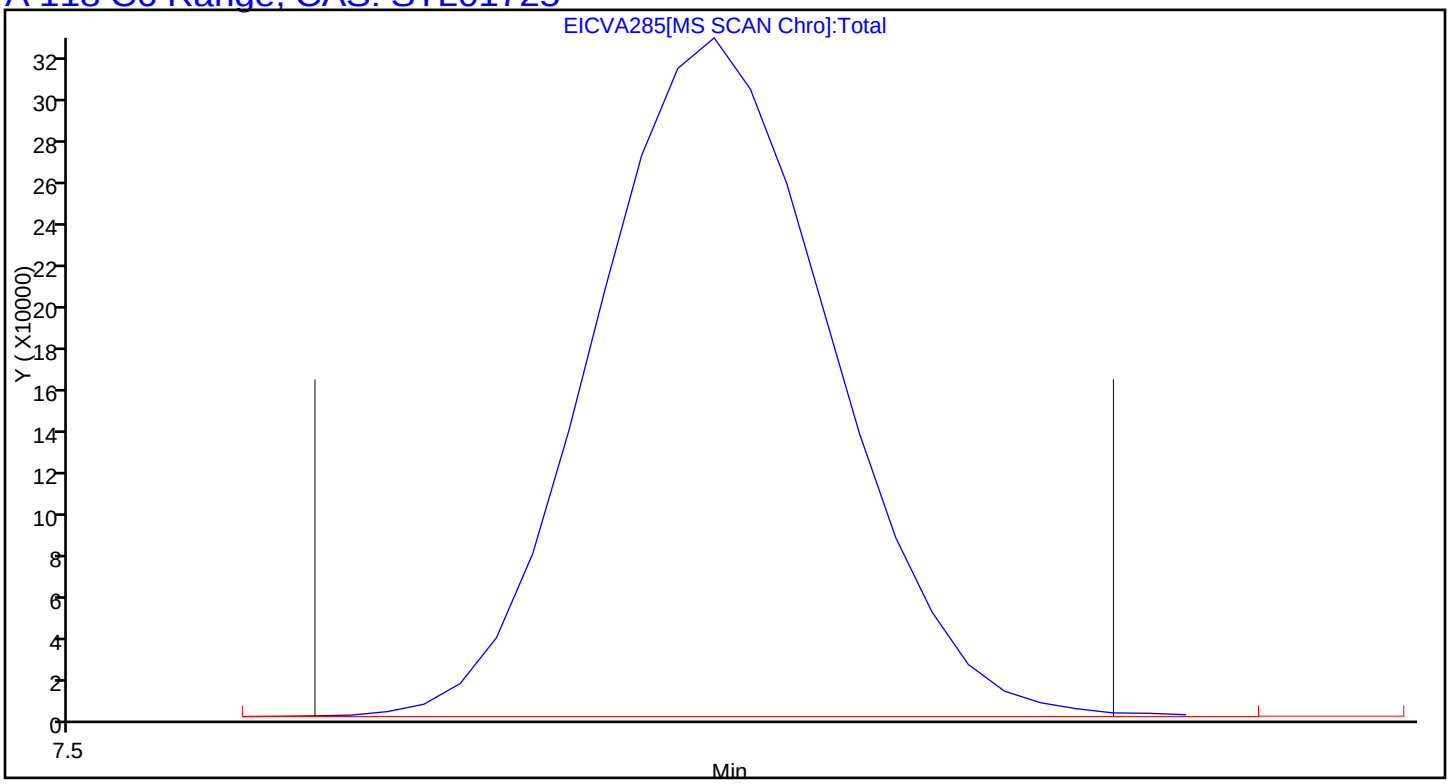


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

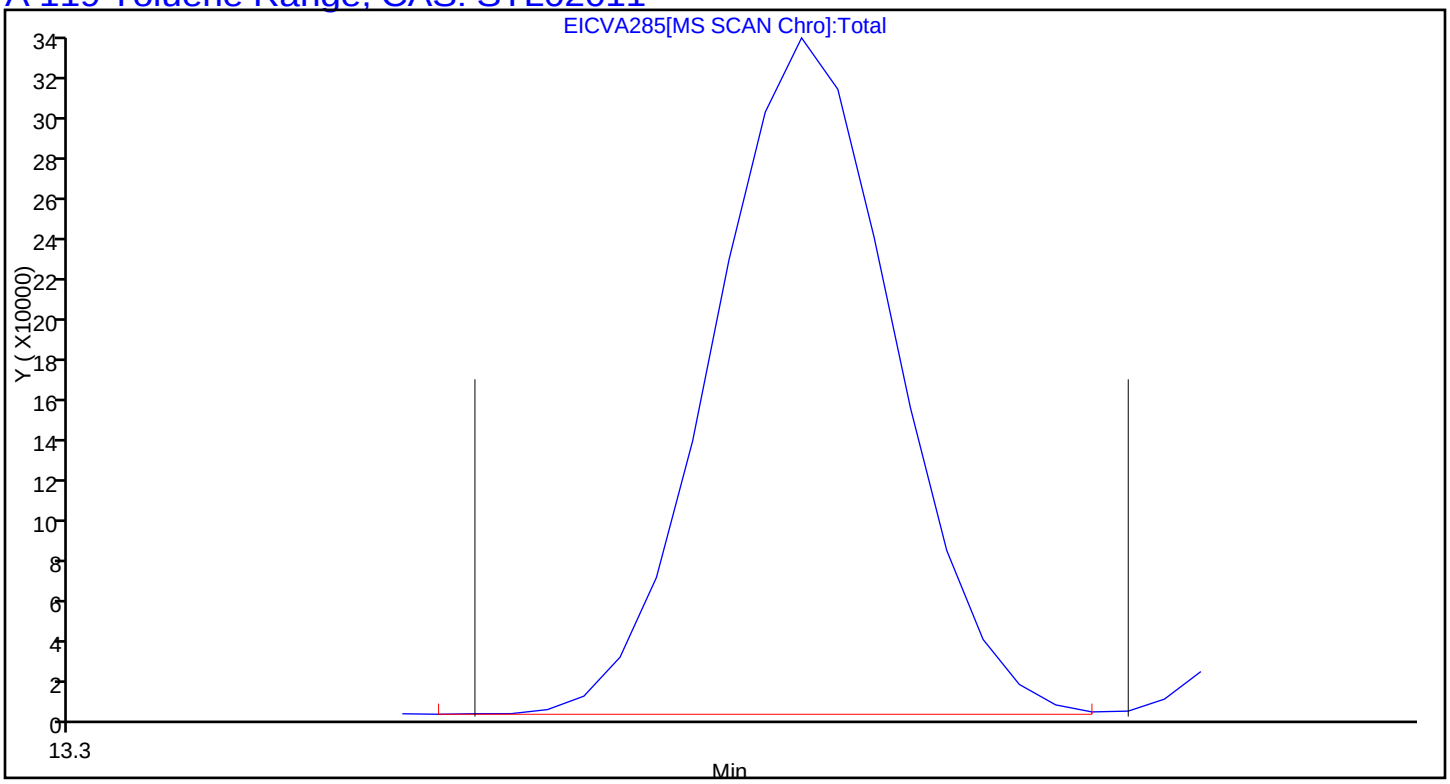


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

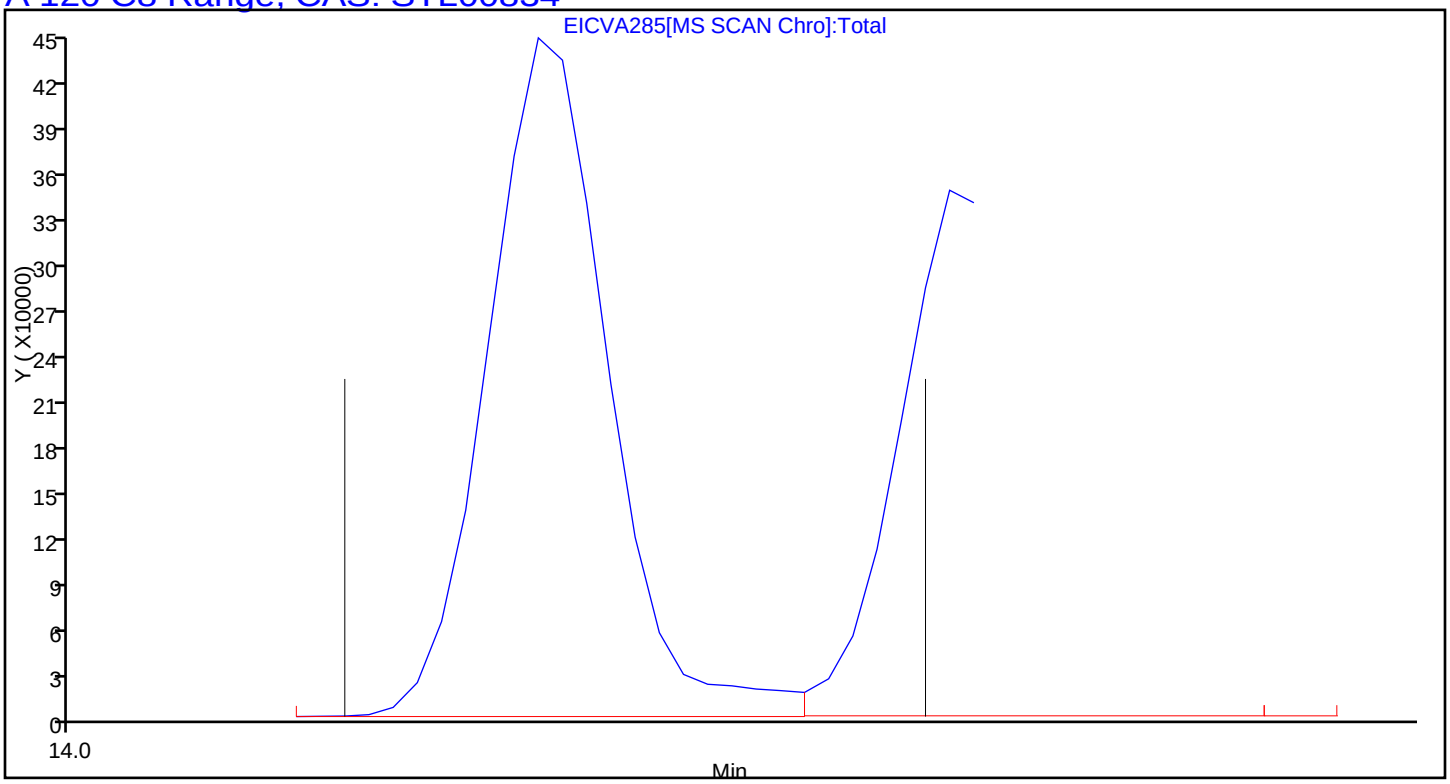


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

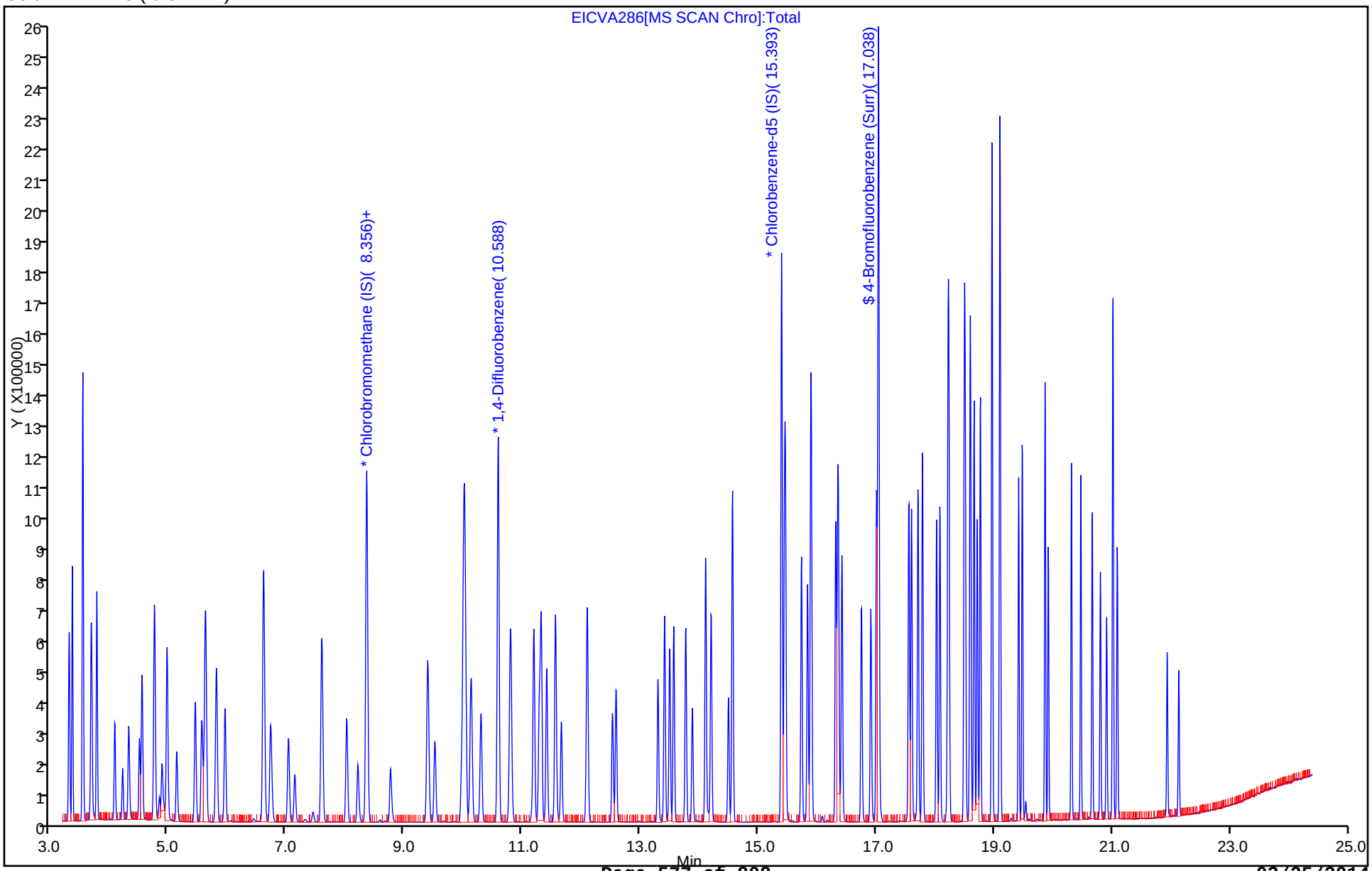
Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

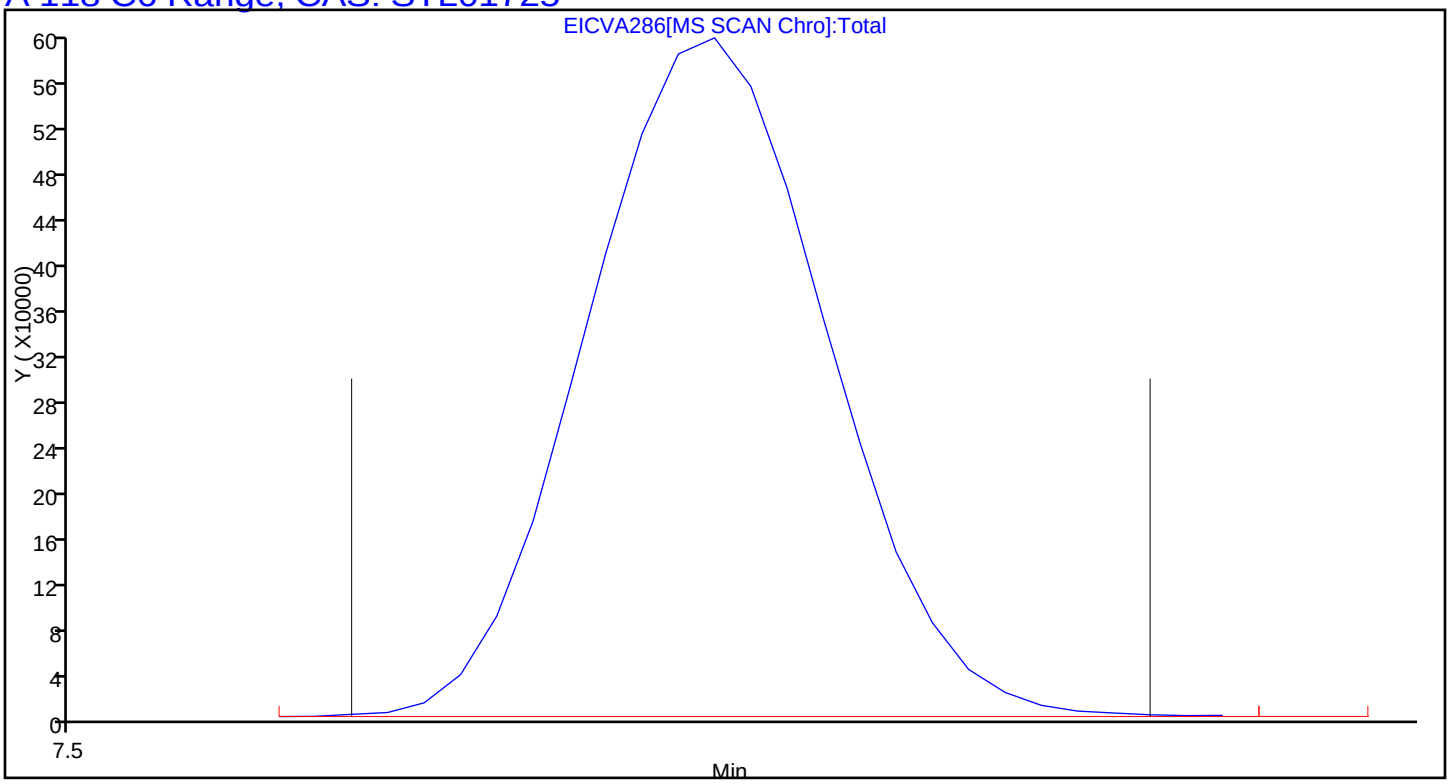


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

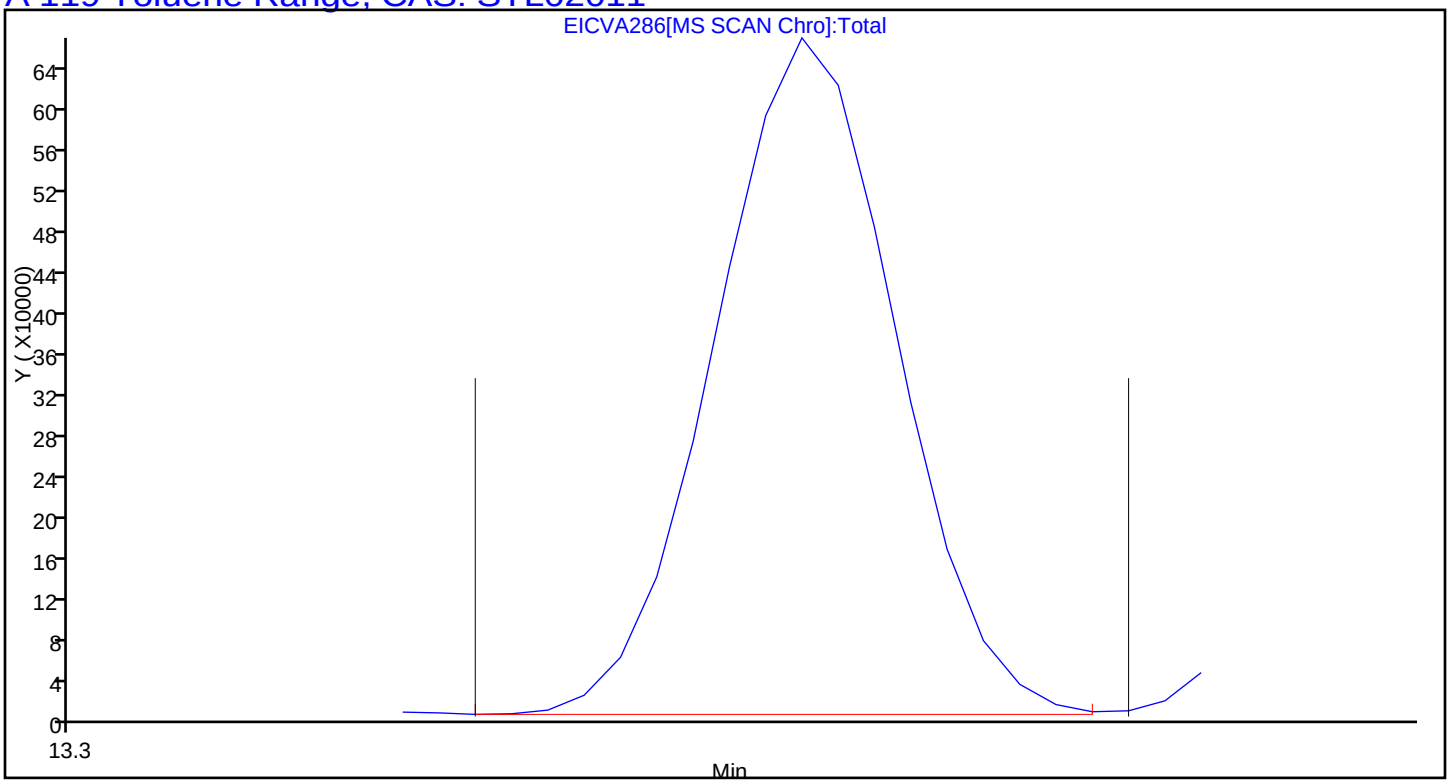


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

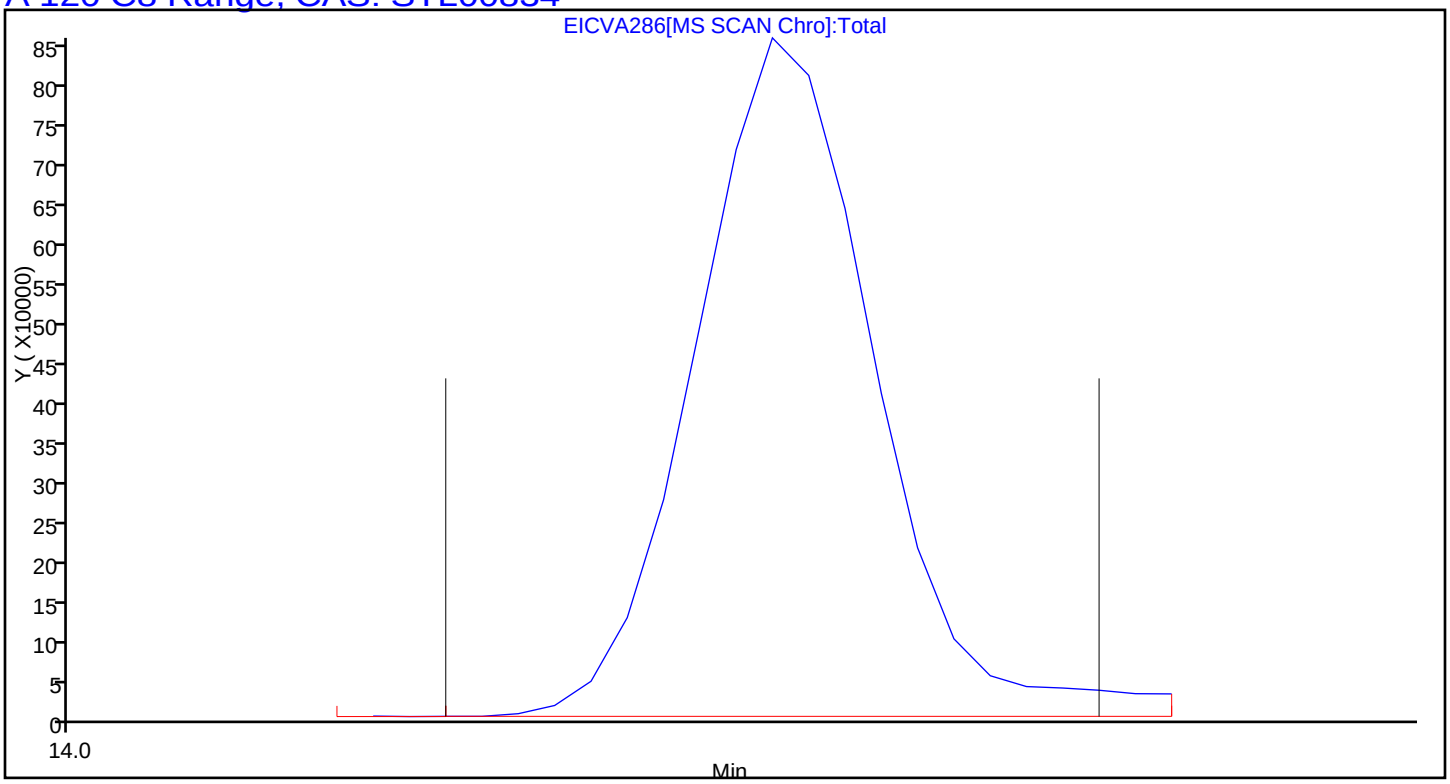


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

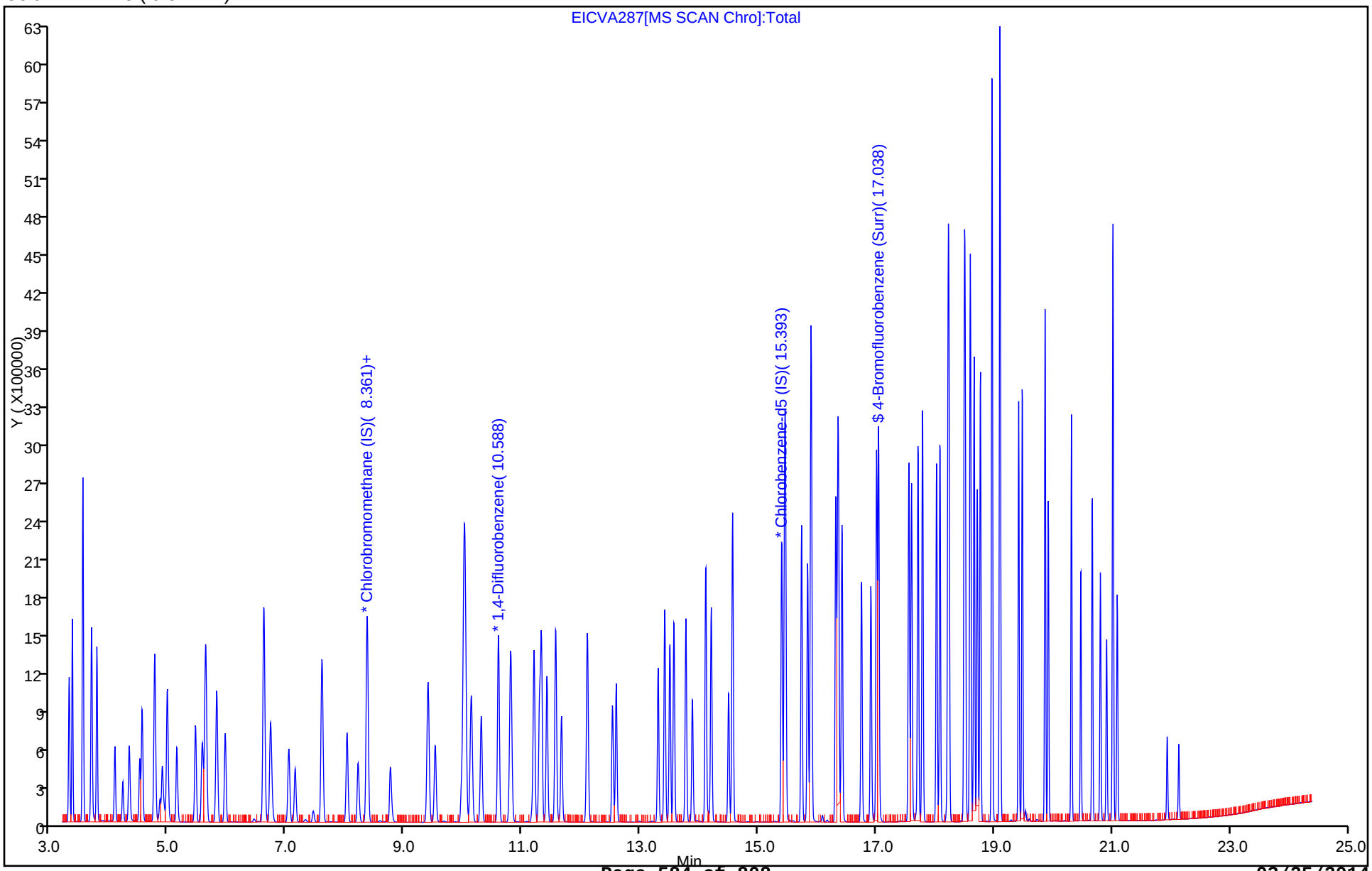
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

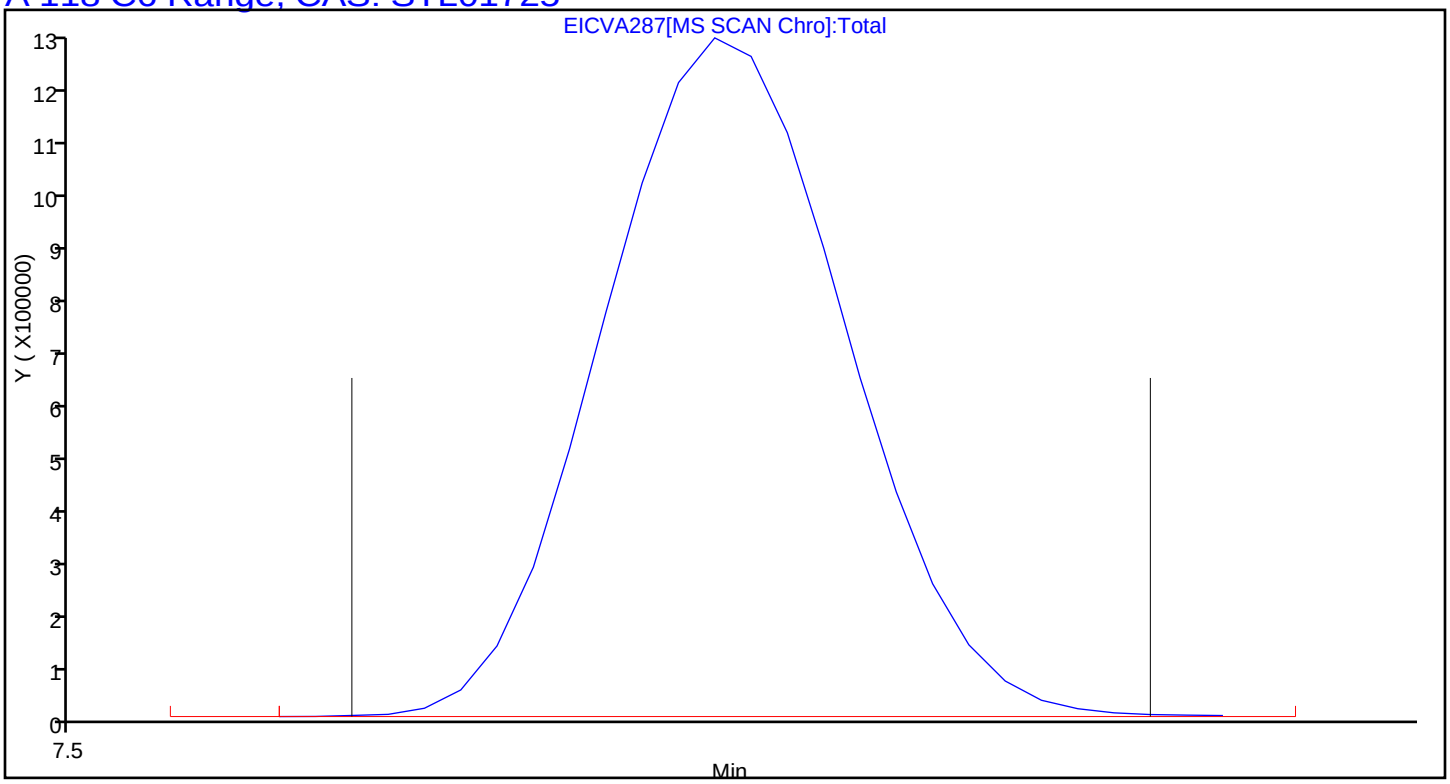


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

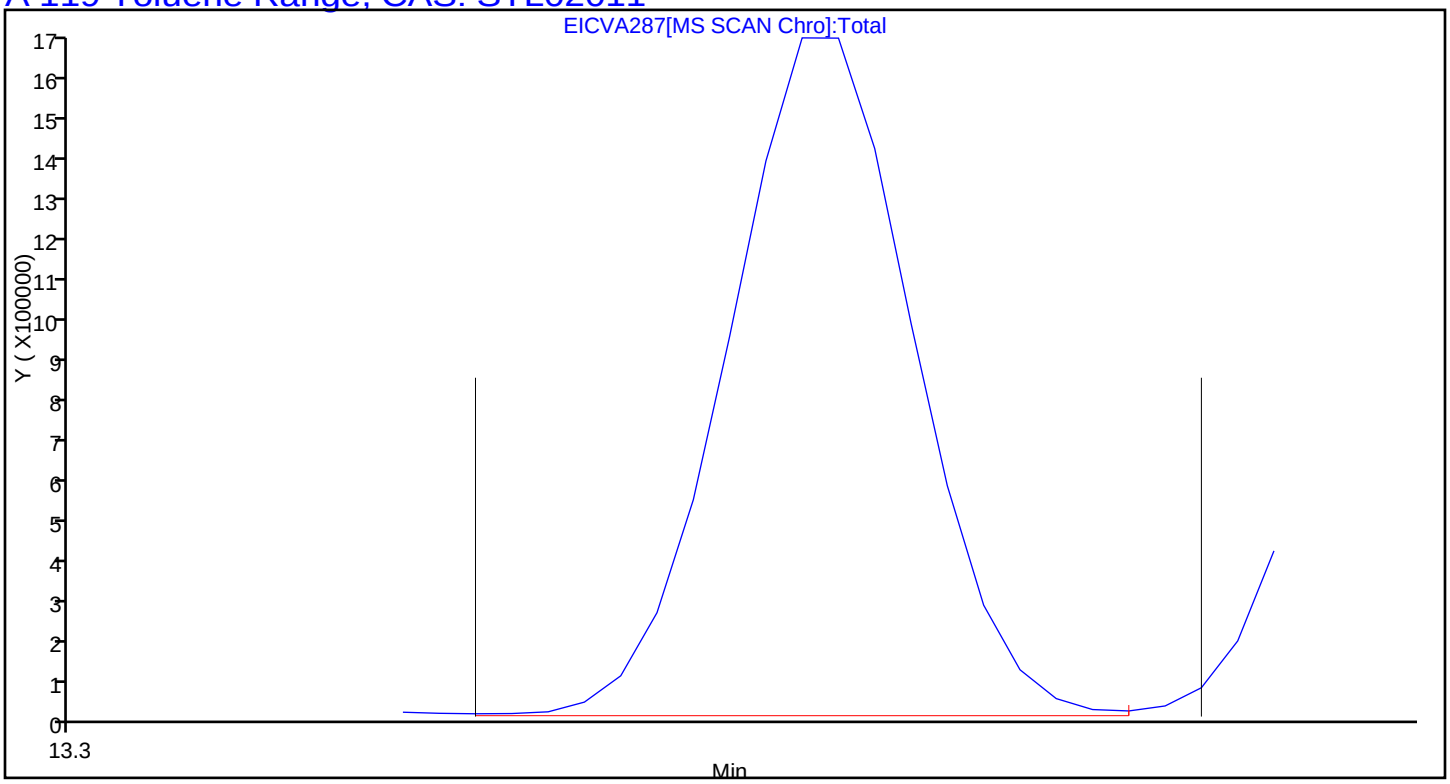


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

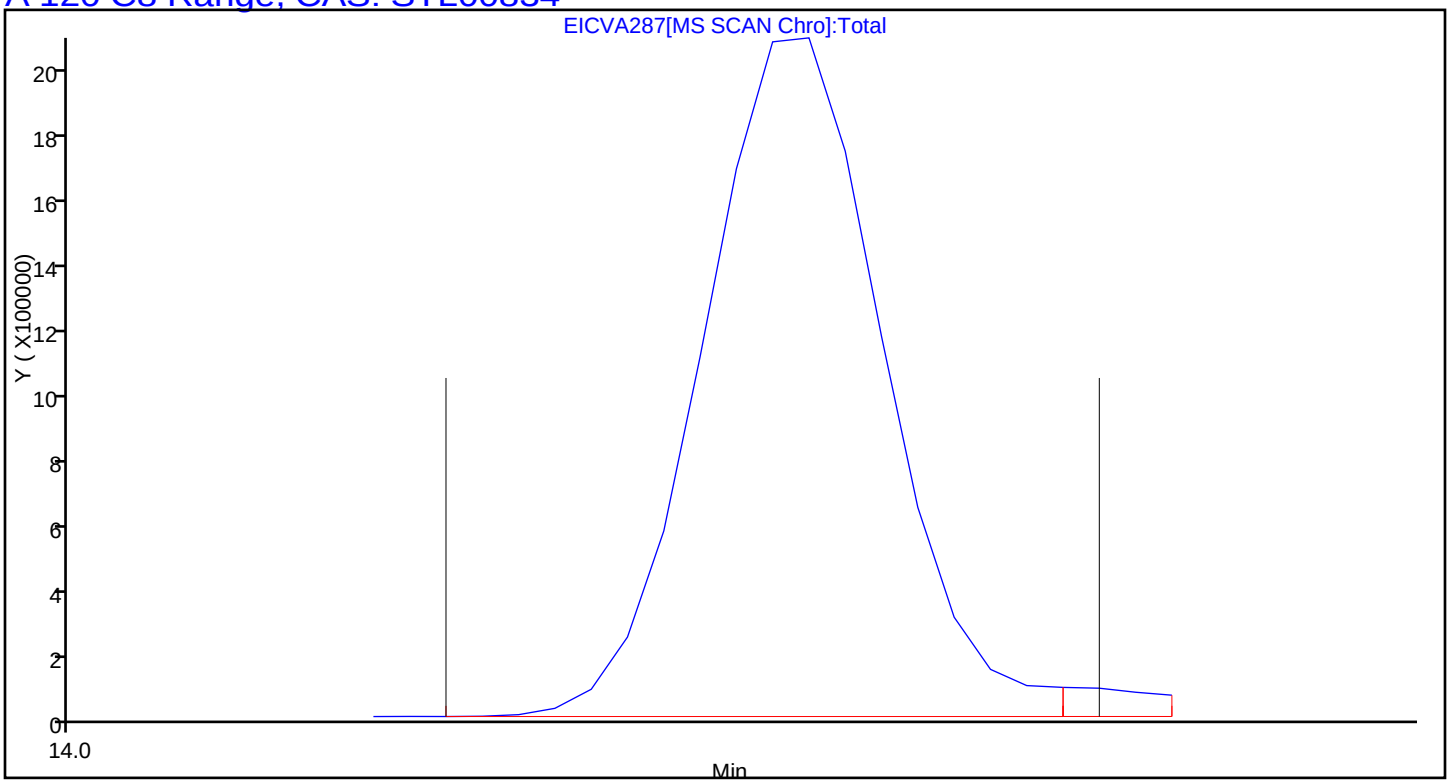


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

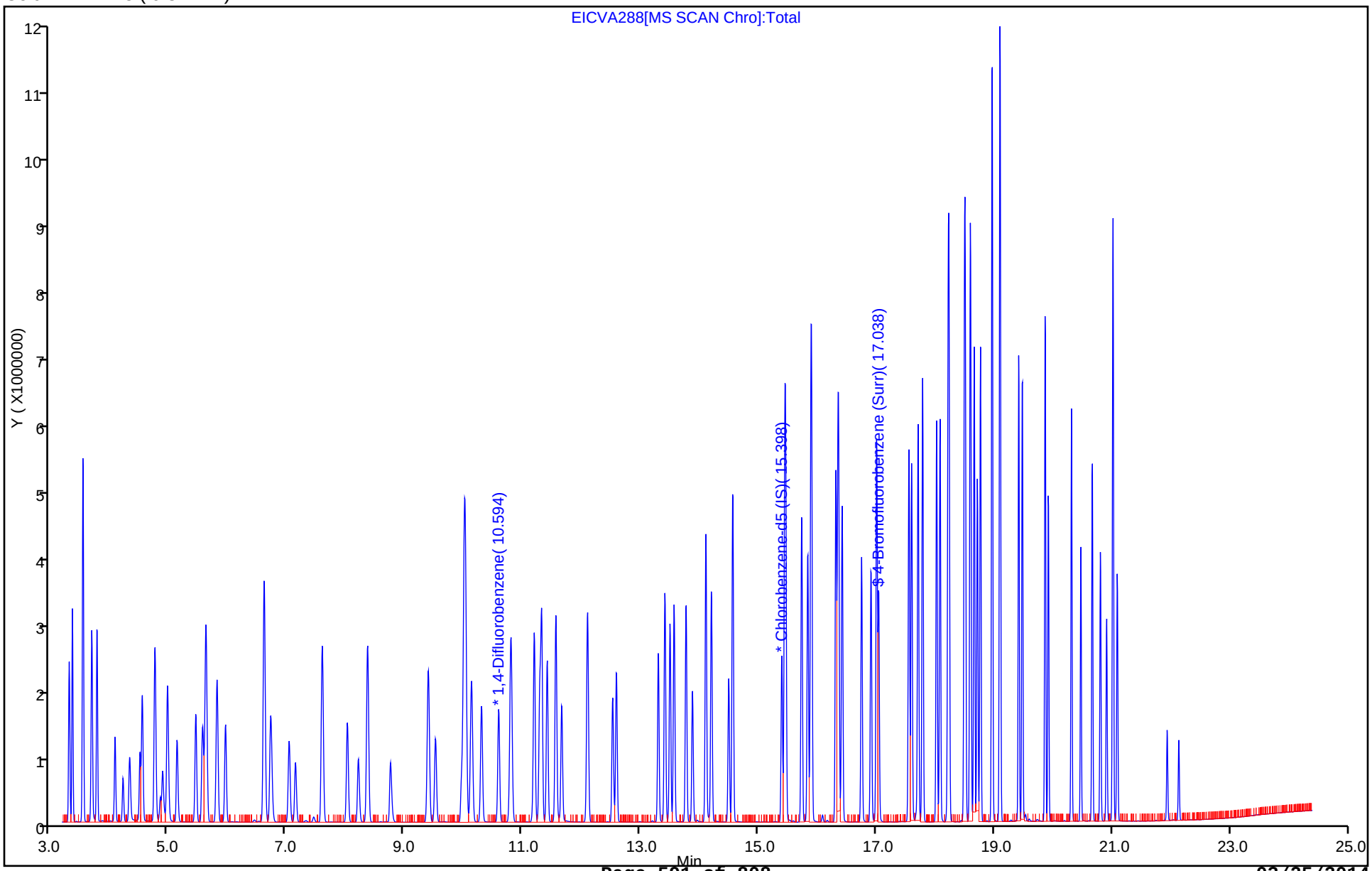
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

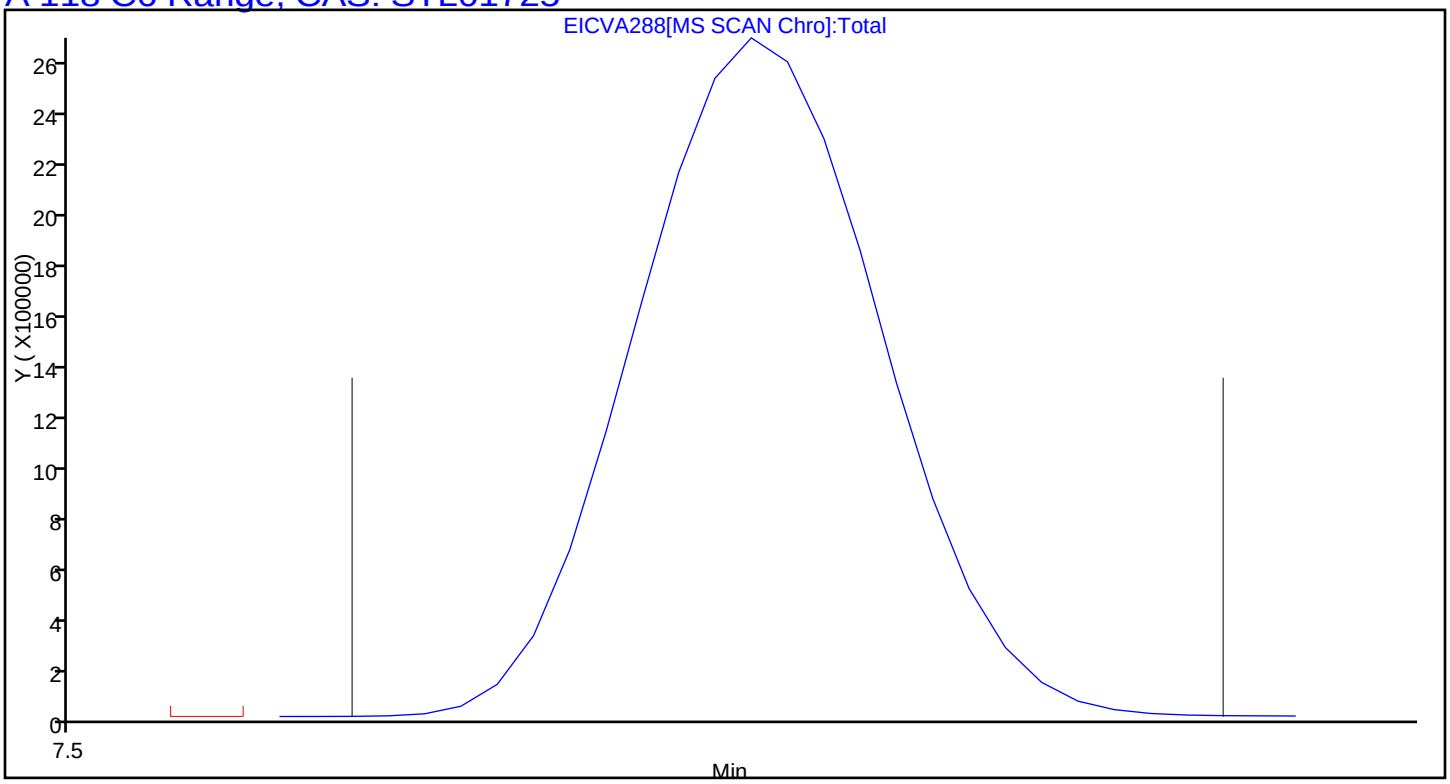


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

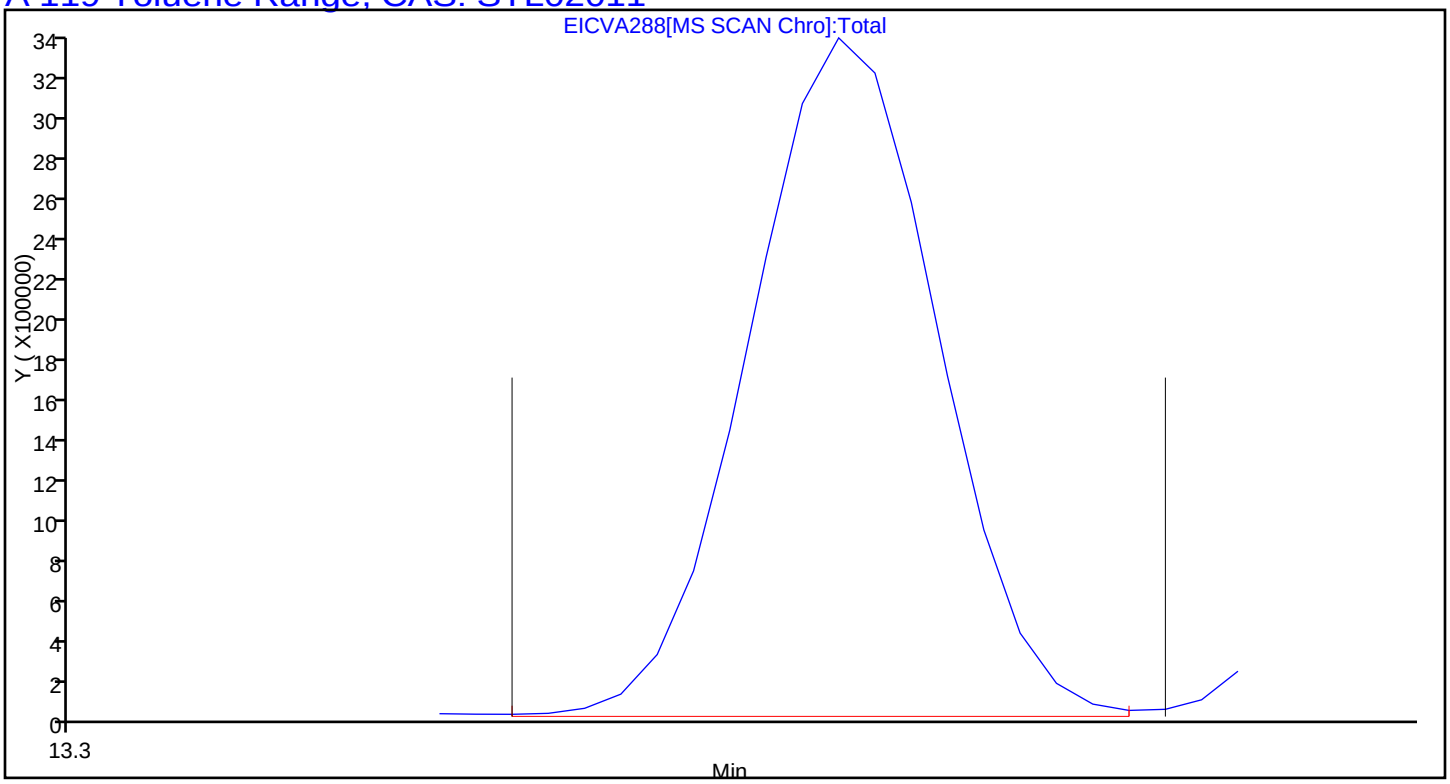


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

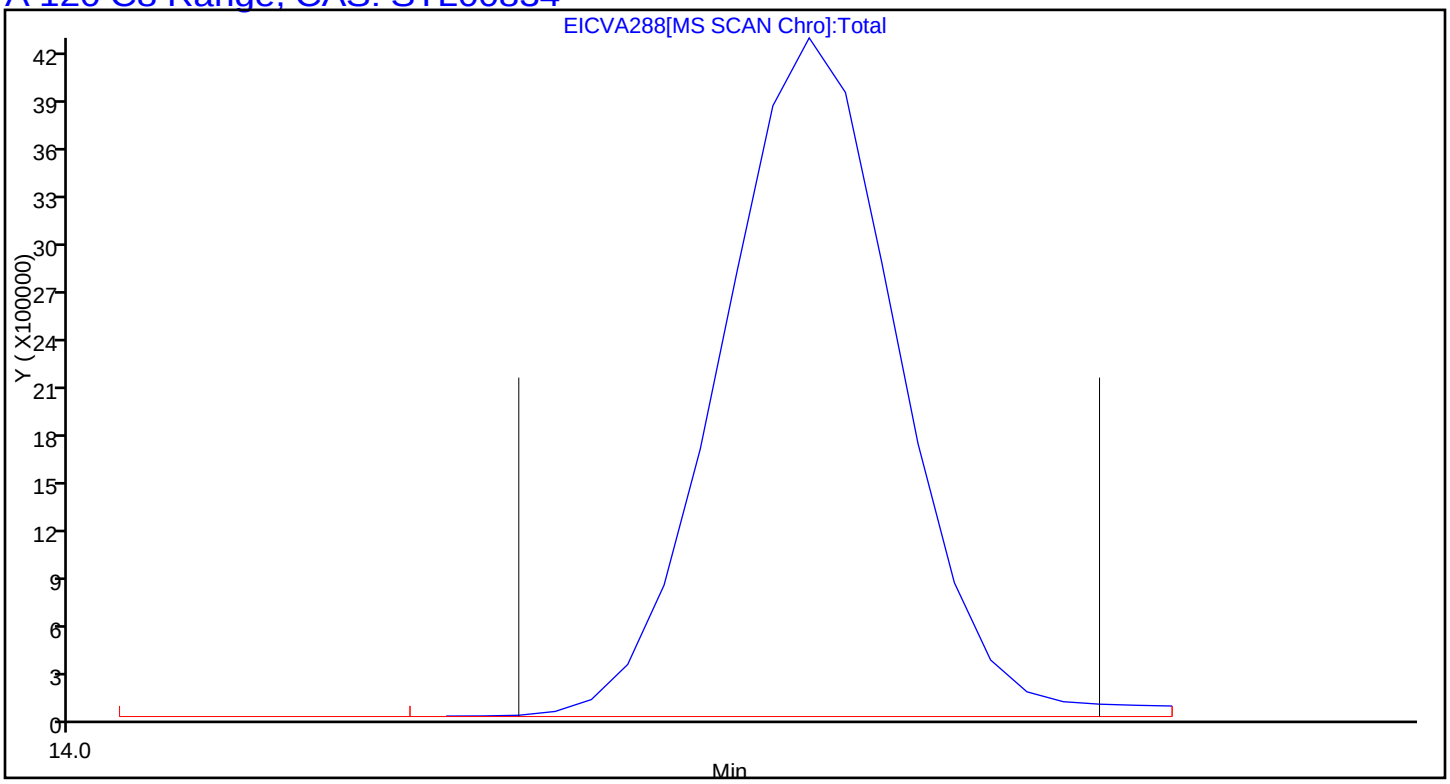


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

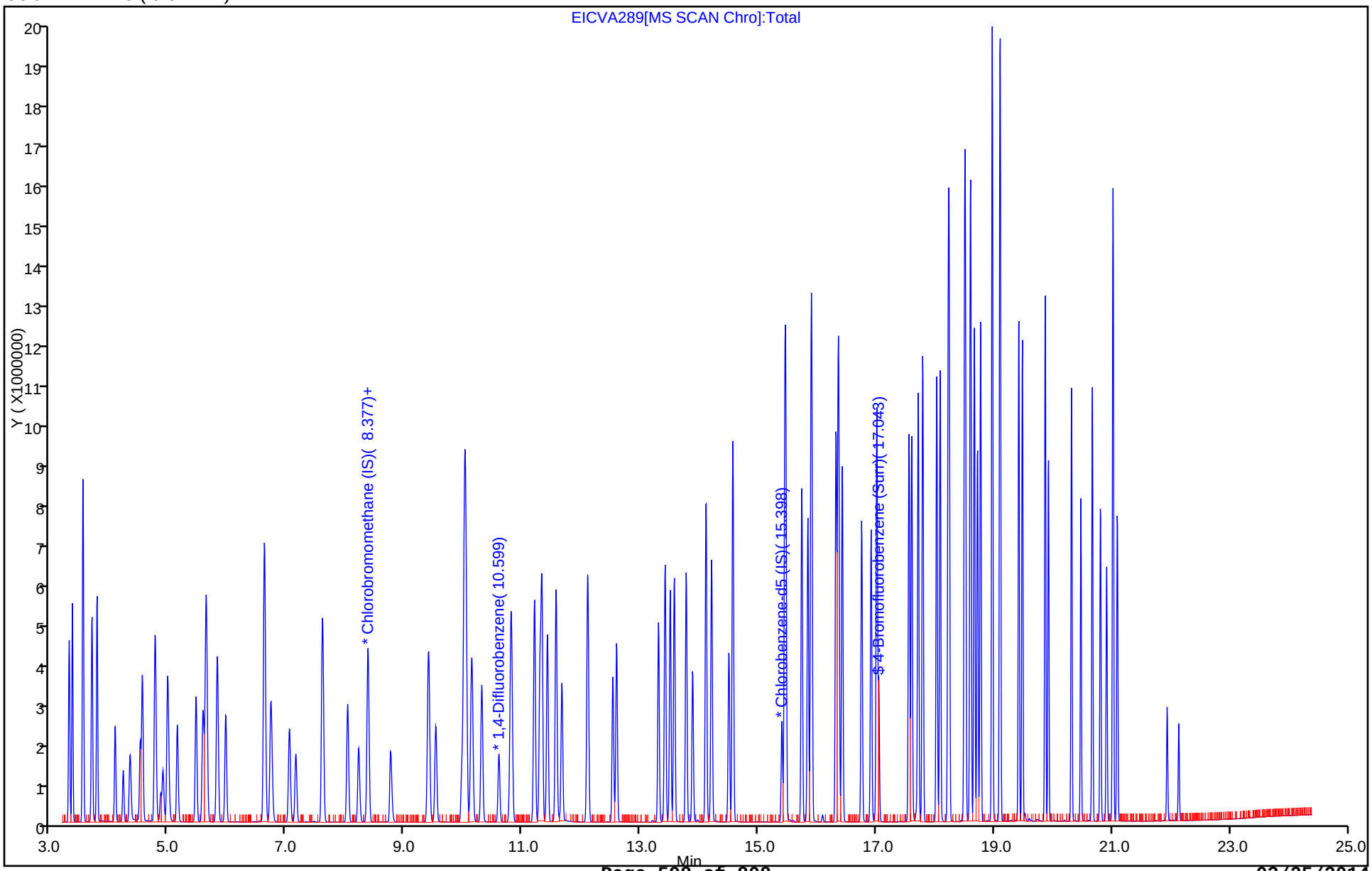
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

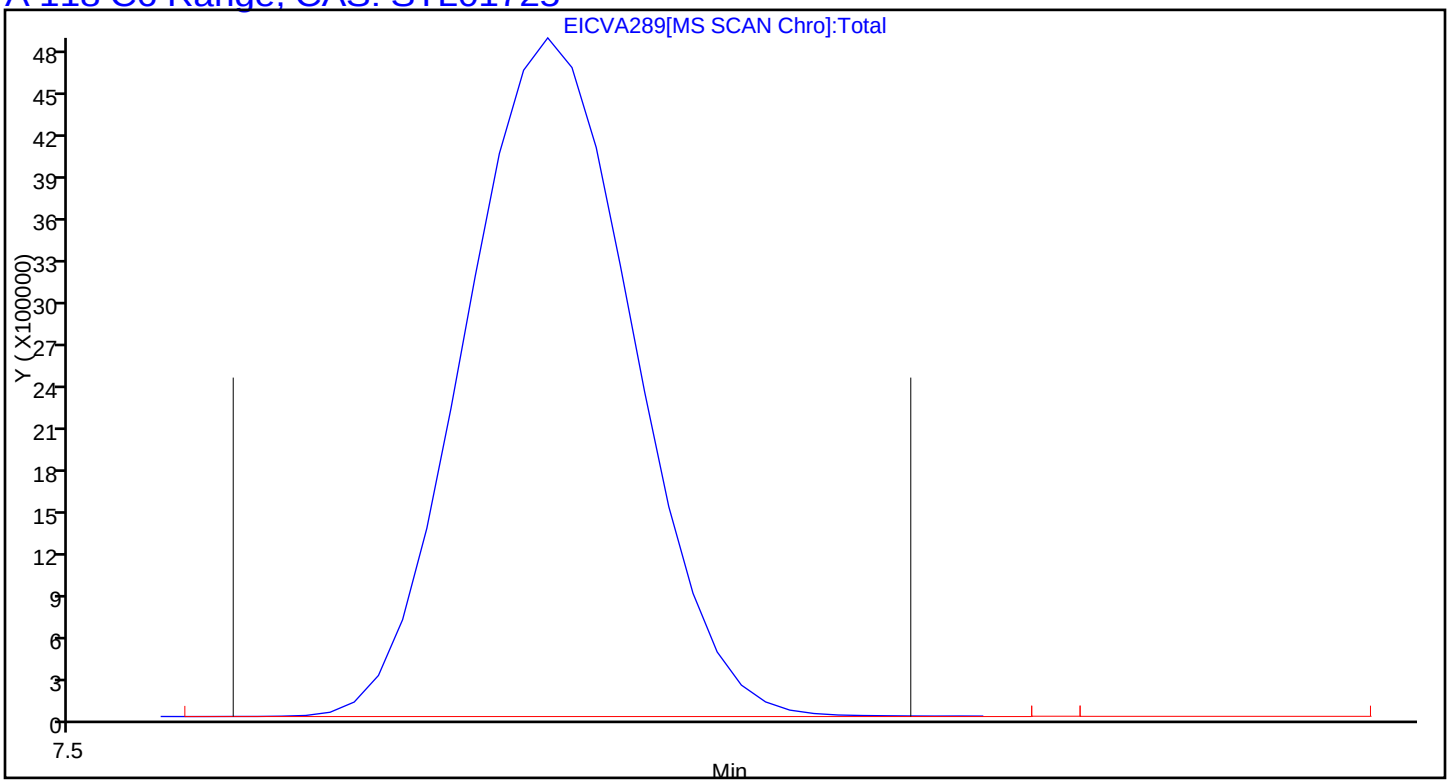


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

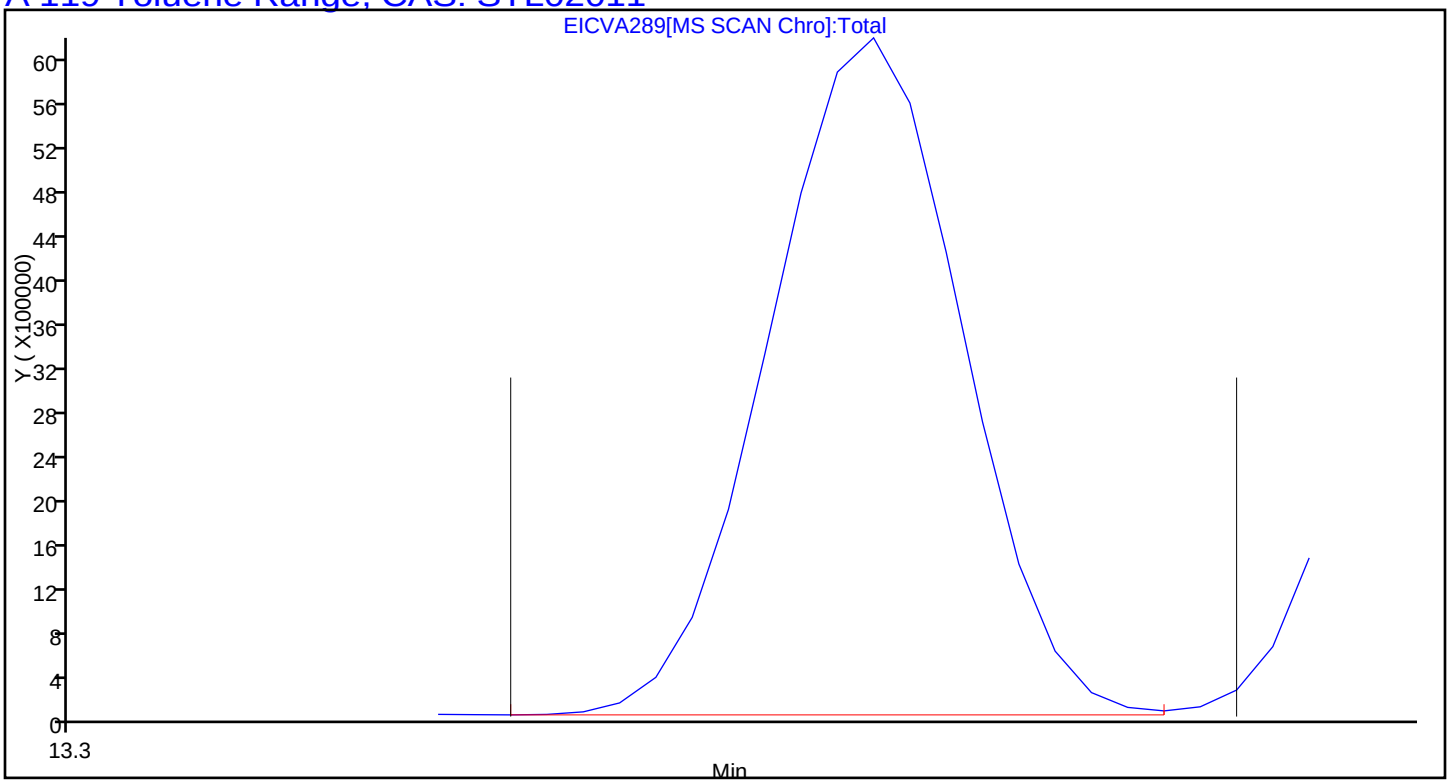


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

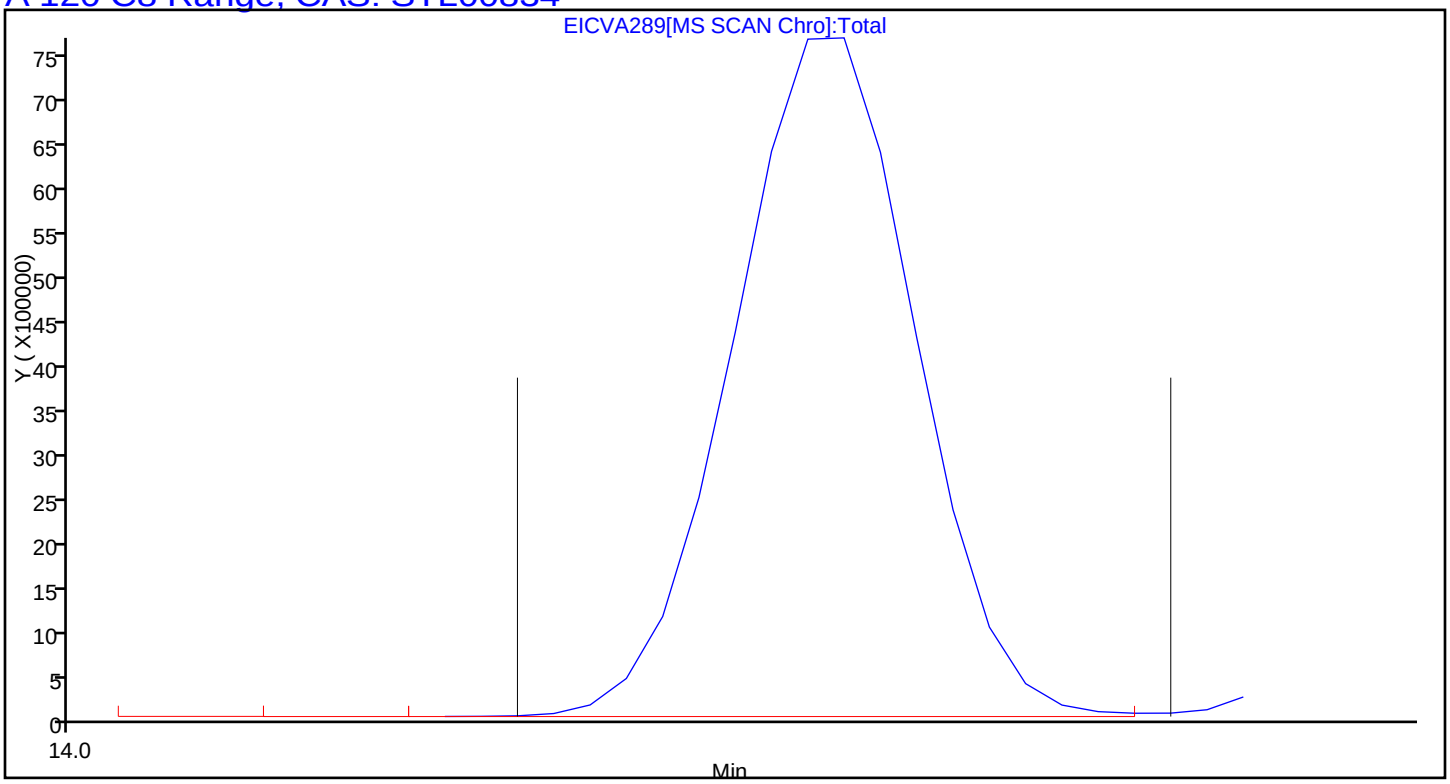


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

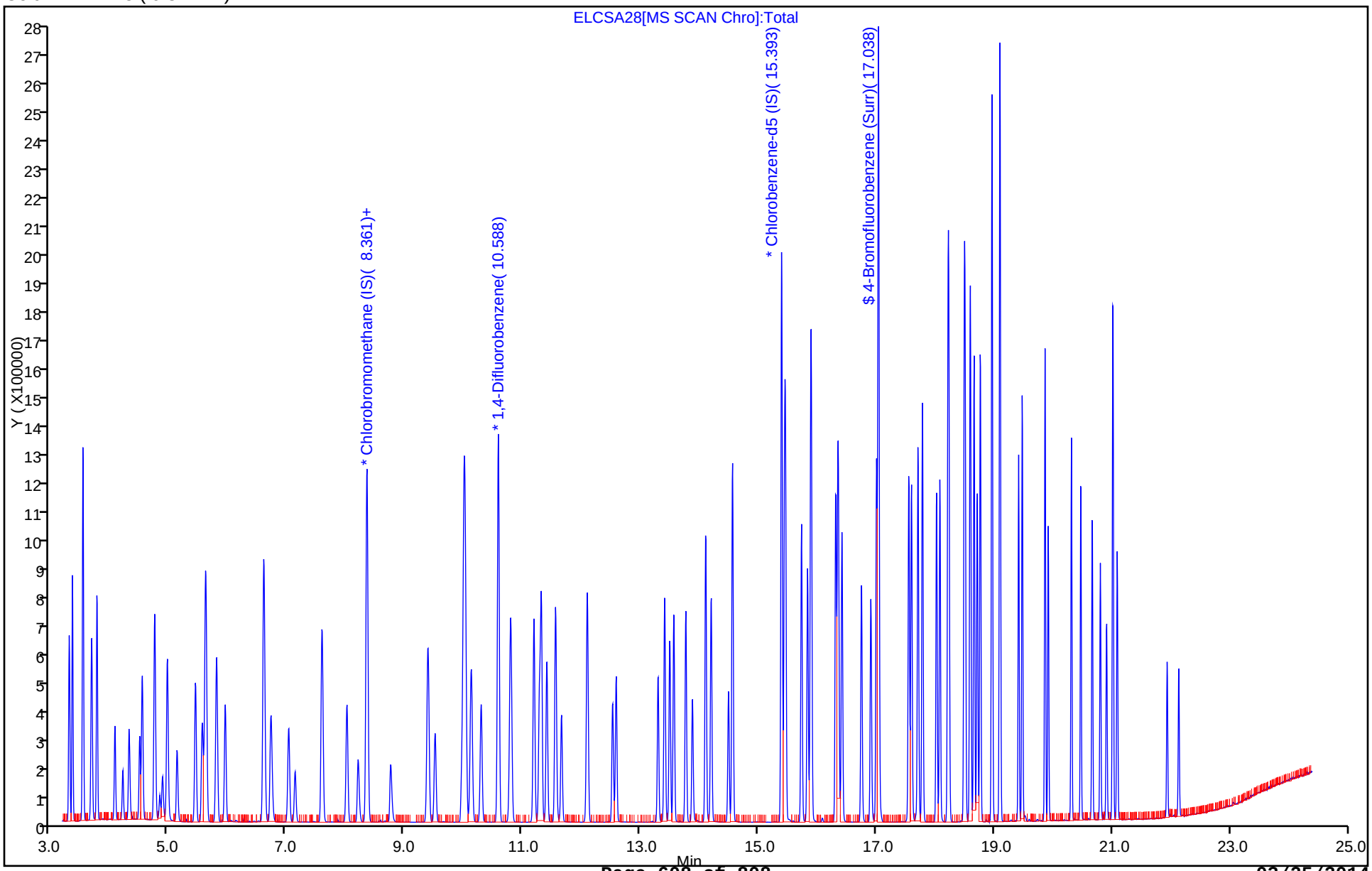
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6746		2.40	2.00	20.2	30.0
Propene	Ave	1.006	0.9746		1.94	2.00	-3.1	30.0
Dichlorodifluoromethane	Ave	4.425	5.292		2.39	2.00	19.6	30.0
Chloromethane	Ave	0.3532	0.3910		2.21	2.00	10.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.094		2.32	2.00	16.0	30.0
Acetaldehyde	Ave	0.3349	0.3202		9.56	10.0	-4.4	50.0
Vinyl chloride	Ave	1.364	1.675		2.46	2.00	22.8	30.0
1,3-Butadiene	Ave	0.9428	1.089		2.31	2.00	15.5	30.0
Butane	Ave	1.913	2.133		2.23	2.00	11.5	30.0
Bromomethane	Ave	1.473	1.810		2.46	2.00	22.9	30.0
Chloroethane	Ave	0.6922	0.8215		2.37	2.00	18.7	30.0
Ethanol	Ave	0.4001	0.3541		8.85	10.0	-11.5	50.0
Vinyl bromide	Ave	1.331	1.688		2.54	2.00	26.8	30.0
2-Methylbutane	Ave	1.401	1.584		2.26	2.00	13.0	30.0
Trichlorofluoromethane	Ave	4.438	5.412		2.44	2.00	21.9	30.0
Acrolein	Ave	0.4230	0.3910		1.85	2.00	-7.6	30.0
Acetonitrile	Ave	0.3806	0.3630		1.91	2.00	-4.6	30.0
Acetone	Ave	0.6059	0.4459		1.47	2.00	-26.4	30.0
Pentane	Ave	0.2626	0.3274		2.49	2.00	24.7	30.0
Isopropyl alcohol	Ave	1.560	1.383		1.77	2.00	-11.3	30.0
Ethyl ether	Ave	1.018	0.8964		1.76	2.00	-11.9	30.0
1,1-Dichloroethene	Ave	1.190	1.255		2.11	2.00	5.4	30.0
tert-Butyl alcohol	Ave	2.208	1.828		1.66	2.00	-17.2	30.0
Acrylonitrile	Ave	0.7008	0.5873		1.68	2.00	-16.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	2.920		2.13	2.00	6.3	30.0
Methylene Chloride	Ave	1.143	1.187		2.08	2.00	3.8	30.0
3-Chloropropene	Ave	1.349	1.219		1.81	2.00	-9.7	30.0
Carbon disulfide	Ave	4.140	4.595		2.22	2.00	11.0	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.502		2.06	2.00	3.0	30.0
2-Methylpentane	Ave	2.634	2.426		1.84	2.00	-7.9	50.0
Methyl tert-butyl ether	Ave	3.630	3.354		1.85	2.00	-7.6	30.0
1,1-Dichloroethane	Ave	2.467	2.290		1.86	2.00	-7.2	30.0
Vinyl acetate	Ave	2.433	1.991		1.64	2.00	-18.2	30.0
2-Butanone (MEK)	Ave	0.6547	0.4678		1.43	2.00	-28.6	30.0
Hexane	Ave	1.064	0.9938		1.87	2.00	-6.6	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.342		1.97	2.00	-1.4	30.0
Ethyl acetate	Ave	2.130	1.719		1.61	2.00	-19.3	30.0
Chloroform	Ave	3.427	3.591		2.10	2.00	4.8	30.0
Tetrahydrofuran	Ave	1.026	0.7756		1.51	2.00	-24.4	30.0
1,1,1-Trichloroethane	Ave	3.888	4.026		2.07	2.00	3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5275		2.15	2.00	7.6	30.0
1-Butanol	Ave	0.0746	0.0572		1.53	2.00	-23.4	30.0
Cyclohexane	Ave	0.1509	0.1677		2.22	2.00	11.1	30.0
Benzene	Ave	0.8050	0.8269		2.05	2.00	2.7	30.0
Carbon tetrachloride	Ave	0.7733	0.9701		2.51	2.00	25.4	30.0
2,3-Dimethylpentane	Ave	0.1874	0.2015		2.15	2.00	7.5	50.0
Thiophene	Ave	0.5002	0.5192		2.08	2.00	3.8	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.223		1.97	2.00	-1.6	30.0
Heptane	Ave	0.3047	0.3304		2.17	2.00	8.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2535		1.96	2.00	-2.0	30.0
Trichloroethene	Ave	0.3975	0.4221		2.12	2.00	6.2	30.0
Dibromomethane	Ave	0.3799	0.4118		2.17	2.00	8.4	30.0
Bromodichloromethane	Ave	0.7571	0.8261		2.18	2.00	9.1	30.0
1,4-Dioxane	Ave	0.1068	0.0988		1.85	2.00	-7.5	30.0
Methyl methacrylate	Ave	0.3033	0.2707		1.79	2.00	-10.7	30.0
Methylcyclohexane	Ave	0.5694	0.6052		2.13	2.00	6.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4205		1.77	2.00	-11.3	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4789		2.10	2.00	4.9	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5255		1.95	2.00	-2.7	30.0
Toluene	Ave	1.072	1.027		1.92	2.00	-4.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3066		1.94	2.00	-2.8	30.0
2-Methylthiophene	Ave	0.9307	0.9054		1.95	2.00	-2.7	50.0
3-Methylthiophene	Ave	0.9375	0.9028		1.93	2.00	-3.7	50.0
2-Hexanone	Ave	0.2529	0.2172		1.72	2.00	-14.1	30.0
Octane	Ave	0.3821	0.3803		1.99	2.00	-0.5	30.0
Dibromochloromethane	Ave	0.7144	0.7016		1.96	2.00	-1.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5646		2.01	2.00	0.3	30.0
Tetrachloroethene	Ave	0.4564	0.4560		2.00	2.00	-0.0	30.0
Chlorobenzene	Ave	0.8545	0.8525		2.00	2.00	-0.2	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7287		1.78	2.00	-11.2	50.0
Ethylbenzene	Ave	1.374	1.376		2.00	2.00	0.1	30.0
2-Ethylthiophene	Ave	1.101	1.101		2.00	2.00	0.0	50.0
m-Xylene & p-Xylene	Ave	1.080	1.121		4.15	4.00	3.8	30.0
Nonane	Ave	0.5994	0.5423		1.81	2.00	-9.5	30.0
Bromoform	Ave	0.6422	0.5265		1.64	2.00	-18.0	30.0
Styrene	Ave	0.7475	0.7649		2.05	2.00	2.3	30.0
o-Xylene	Ave	1.168	1.173		2.01	2.00	0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.6832		1.99	2.00	-0.6	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2446		1.95	2.00	-2.3	30.0
Isopropylbenzene	Ave	1.542	1.526		1.98	2.00	-1.1	30.0
Propylbenzene	Ave	0.4031	0.3884		1.93	2.00	-3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3775		1.96	2.00	-1.8	30.0
4-Ethyltoluene	Ave	1.477	1.486		2.01	2.00	0.6	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6563		1.96	2.00	-2.0	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5597		2.03	2.00	1.3	30.0
Decane	Ave	0.6339	0.6478		2.04	2.00	2.2	30.0
tert-Butylbenzene	Ave	1.348	1.339		1.99	2.00	-0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.269		2.07	2.00	3.4	30.0
sec-Butylbenzene	Ave	1.656	1.692		2.04	2.00	2.2	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8236		2.06	2.00	3.2	30.0
Benzyl chloride	Ave	1.010	1.042		2.06	2.00	3.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.7977		2.03	2.00	1.6	30.0
4-Isopropyltoluene	Ave	1.399	1.478		2.11	2.00	5.6	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.059		2.03	2.00	1.6	50.0
Butylcyclohexane	Ave	0.9625	1.002		2.08	2.00	4.1	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7835		2.06	2.00	3.0	30.0
Indane	Ave	1.073	1.088		2.03	2.00	1.4	50.0
Indene	Ave	1.019	1.064		2.09	2.00	4.5	50.0
Butylbenzene	Ave	1.239	1.397		2.25	2.00	12.7	30.0
Undecane	Ave	0.5595	0.5627		2.01	2.00	0.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.358		2.26	2.00	13.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.390		2.34	2.00	16.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8772		2.26	2.00	12.8	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.081		2.18	2.00	8.8	50.0
Dodecane	Ave	0.4200	0.4751		2.26	2.00	13.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.4757		1.87	2.00	-6.3	30.0
Naphthalene	Ave	0.8890	0.8960		2.02	2.00	0.8	30.0
Benzo(b)thiophene	Ave	0.6431	0.6062		1.89	2.00	-5.7	50.0
Hexachlorobutadiene	Ave	0.6633	0.6533		1.97	2.00	-1.5	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.3792		2.00	2.00	0.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0392		11.7	12.5	-6.7	50.0
1-Methylnaphthalene	Ave	0.0366	0.0331		11.3	12.5	-9.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9213		4.21	4.00	5.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\ECCVC13.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Mar-2014 11:55:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031314,TO155,,140-0000518-002 =E031314,TO155,,140-0000518-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:11:24 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:11:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	219421	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	95	984733	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	930182	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	856961	4.21	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	74005	2.40	
7 Propene	41	3.309	3.309	0.0	92	106921	1.94	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	580640	2.39	
9 Chloromethane	52	3.530	3.530	0.0	98	42901	2.21	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	339473	2.32	
11 Acetaldehyde	44	3.675	3.675	0.0	92	175655	9.56	
12 Vinyl chloride	62	3.692	3.692	0.0	99	183715	2.46	
13 Butadiene	54	3.772	3.772	0.0	71	119461	2.31	
14 Butane	43	3.772	3.772	0.0	82	234031	2.23	
15 Bromomethane	94	4.074	4.074	0.0	98	198619	2.46	
16 Chloroethane	64	4.209	4.209	0.0	96	90124	2.37	
17 Ethanol	31	4.312	4.312	0.0	98	194227	8.85	
18 Vinyl bromide	106	4.495	4.495	0.0	96	185217	2.54	
19 2-Methylbutane	43	4.538	4.538	0.0	87	173733	2.26	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	100	593722	2.44	
20 Acrolein	56	4.765	4.765	0.0	85	42896	1.85	
22 Acetonitrile	40	4.835	4.835	0.0	97	39824	1.91	
23 Acetone	58	4.878	4.878	0.0	87	48920	1.47	
25 Pentane	72	4.959	4.959	0.0	97	35919	2.49	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	151726	1.77	
26 Ethyl ether	31	5.126	5.126	0.0	85	98348	1.76	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	96	137638	2.11	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	200536	1.66	
28 Acrylonitrile	53	5.557	5.557	0.0	93	64427	1.68	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	94	320366	2.13	
31 Methylene Chloride	84	5.789	5.789	0.0	83	130194	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	133753	1.81	
33 Carbon disulfide	76	5.940	5.940	0.0	100	504079	2.22	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	97	164775	2.06	
35 2-Methylpentane	43	6.603	6.603	0.0	87	266162	1.84	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	367962	1.85	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	251268	1.86	
38 Vinyl acetate	43	7.126	7.126	0.0	99	218390	1.64	
40 Hexane	56	7.585	7.585	0.0	82	109033	1.87	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	82	51320	1.43	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	147236	1.97	
42 Ethyl acetate	43	8.200	8.200	0.0	97	188632	1.61	
43 Chloroform	83	8.351	8.351	0.0	96	394014	2.10	
44 Tetrahydrofuran	42	8.755	8.755	0.0	77	85092	1.51	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	441718	2.07	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	259715	2.15	
47 n-Butanol	31	9.963	9.963	0.0	68	28140	1.53	
49 Cyclohexane	69	9.990	9.990	0.0	88	82577	2.22	
48 Benzene	78	9.995	9.995	0.0	97	407135	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	477630	2.51	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	85	99216	2.15	
52 Thiophene	84	10.281	10.281	0.0	93	255634	2.08	
53 Isooctane	57	10.788	10.788	0.0	96	602132	1.97	
54 n-Heptane	71	11.182	11.182	0.0	82	162657	2.17	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	79	124804	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	91	207808	2.12	
57 Dibromomethane	93	11.397	11.397	0.0	93	202730	2.17	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	406762	2.18	
59 1,4-Dioxane	88	11.570	11.570	0.0	88	48630	1.85	
60 Methyl methacrylate	41	11.651	11.651	0.0	84	133294	1.79	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	297960	2.13	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	207054	1.77	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	95	235782	2.10	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	97	244393	1.95	
65 Toluene	91	13.403	13.403	0.0	94	477734	1.92	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	97	142617	1.94	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	421104	1.95	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	419897	1.93	
69 2-Hexanone	58	13.872	13.872	0.0	95	101016	1.72	
70 n-Octane	85	14.099	14.099	0.0	81	176865	1.99	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	326308	1.96	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	262588	2.01	
73 Tetrachloroethene	129	14.552	14.552	0.0	93	212086	2.00	
74 Chlorobenzene	112	15.436	15.436	0.0	82	396471	2.00	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	81	338930	1.78	
76 Ethylbenzene	91	15.722	15.722	0.0	99	639812	2.00	
77 2-Ethylthiophene	97	15.824	15.824	0.0	98	512165	2.00	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1043035	4.15	
81 n-Nonane	57	16.304	16.304	0.0	79	252236	1.81	
79 Bromoform	173	16.337	16.337	0.0	95	244885	1.64	
80 Styrene	104	16.353	16.353	0.0	97	355726	2.05	
82 o-Xylene	91	16.412	16.412	0.0	97	545599	2.01	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	317728	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	96	113754	1.95	
85 Isopropylbenzene	105	16.995	16.995	0.0	98	709577	1.98	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	180647	1.93	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	175565	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	98	691059	2.01	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	305218	1.96	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	83	260288	2.03	
91 n-Decane	57	18.073	18.073	0.0	96	301265	2.04	
92 tert-Butylbenzene	119	18.208	18.208	0.0	85	622762	1.99	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	93	590211	2.07	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	786942	2.04	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	98	383068	2.06	
96 Benzyl chloride	91	18.580	18.580	0.0	97	484704	2.06	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	89	371020	2.03	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	88	687221	2.11	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	492357	2.03	
100 Butylcyclohexane	83	18.758	18.758	0.0	96	466115	2.08	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	89	506032	2.03	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	82	364374	2.06	
103 Indene	116	19.087	19.087	0.0	86	495059	2.09	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	649521	2.25	
106 Undecane	57	19.410	19.410	0.0	88	261695	2.01	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	631704	2.26	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	646391	2.34	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	93	407976	2.26	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	502701	2.18	
110 Dodecane	57	20.462	20.462	0.0	90	220960	2.26	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	221230	1.87	
112 Naphthalene	128	20.796	20.796	0.0	98	416718	2.02	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	281921	1.89	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	84	303827	1.97	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	176379	2.00	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	113886	11.7	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	98	96160	11.3	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1278095	1.90	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1201788	2.04	
A 120 C8 Range	1	14.104	14.050 -	14.147	0	1410822	2.01	
S 124 Xylenes, Total	100				0		6.16	

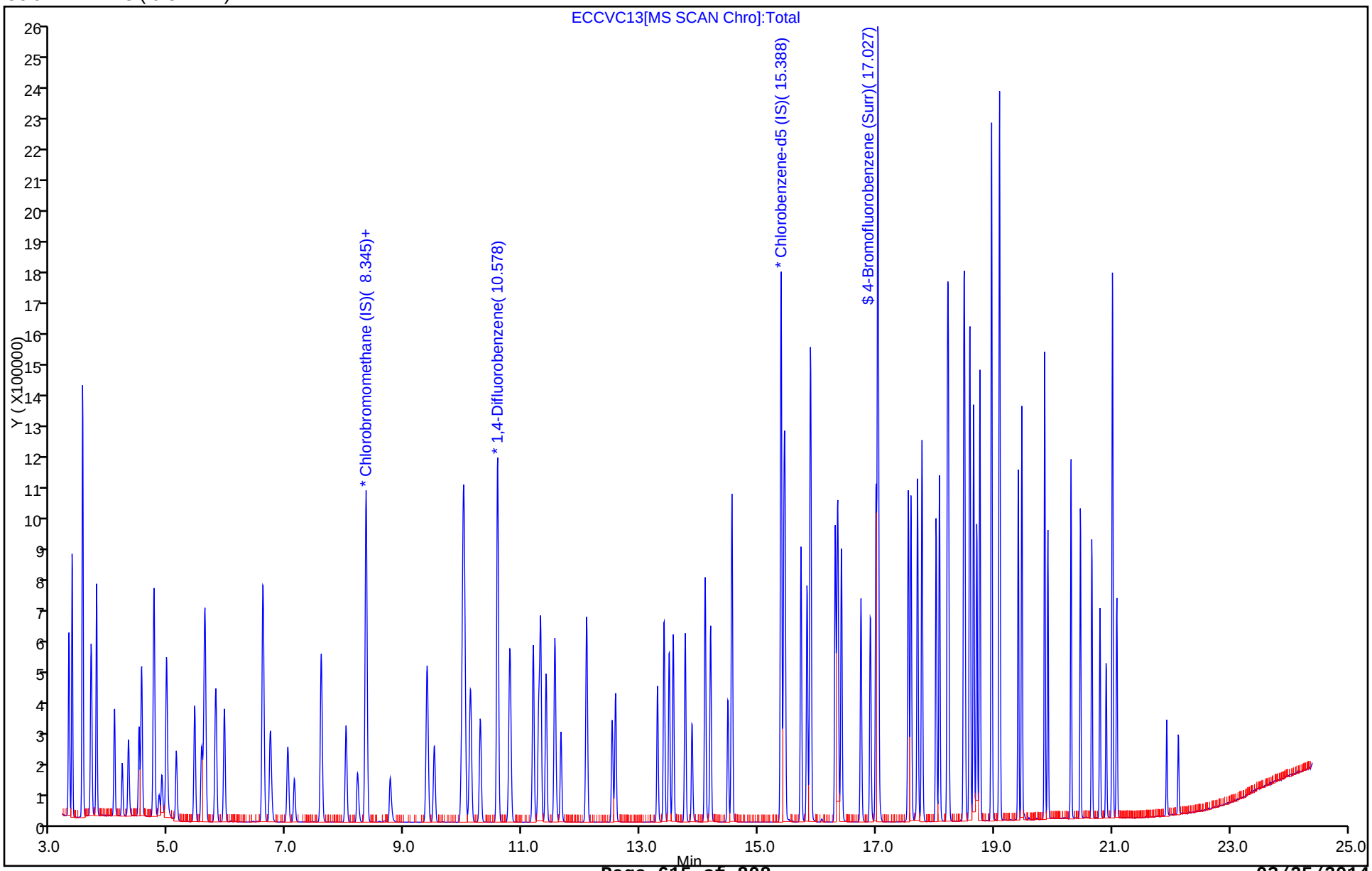
Report Date: 14-Mar-2014 07:11:25 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\ECCVC13.D

Injection Date:	13-Mar-2014 11:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jan-2014 13:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E012814I,BFB,140-0000390-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jan-2014 13:09:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	30-Jan-2014 11:32:37		

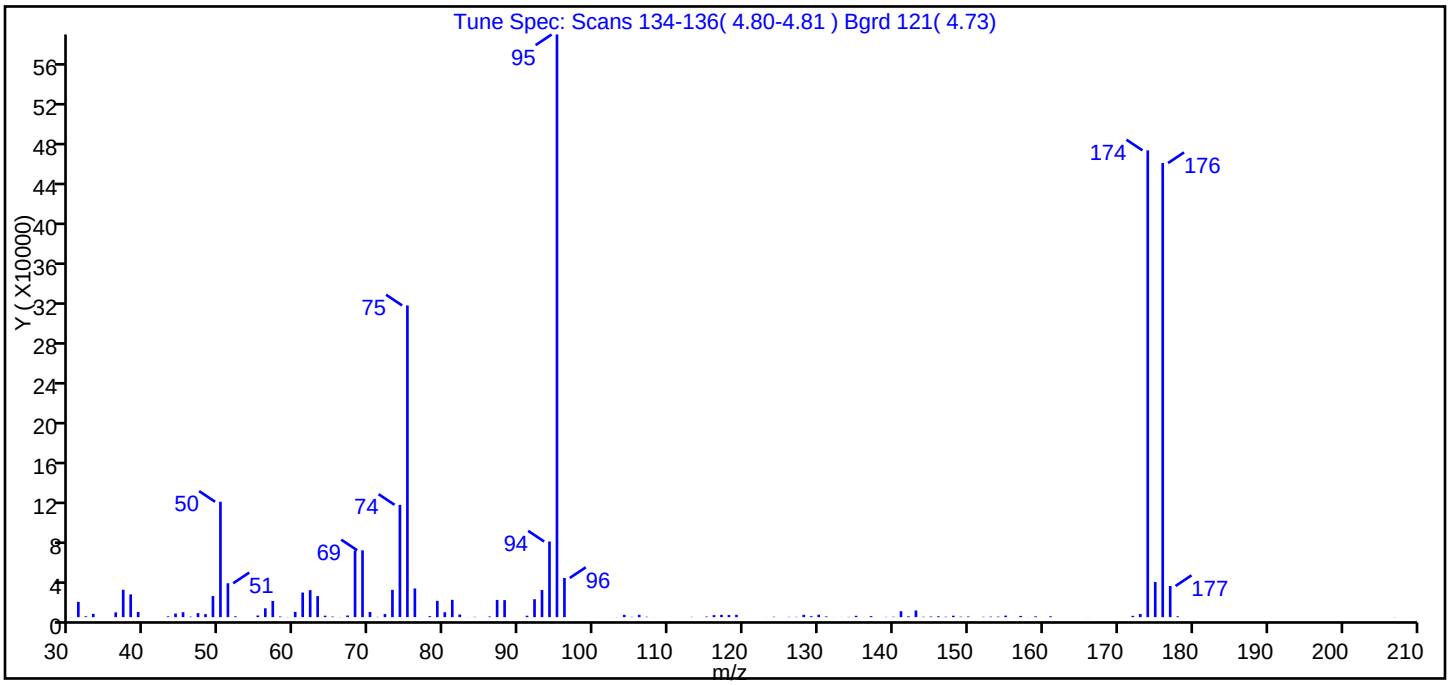
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

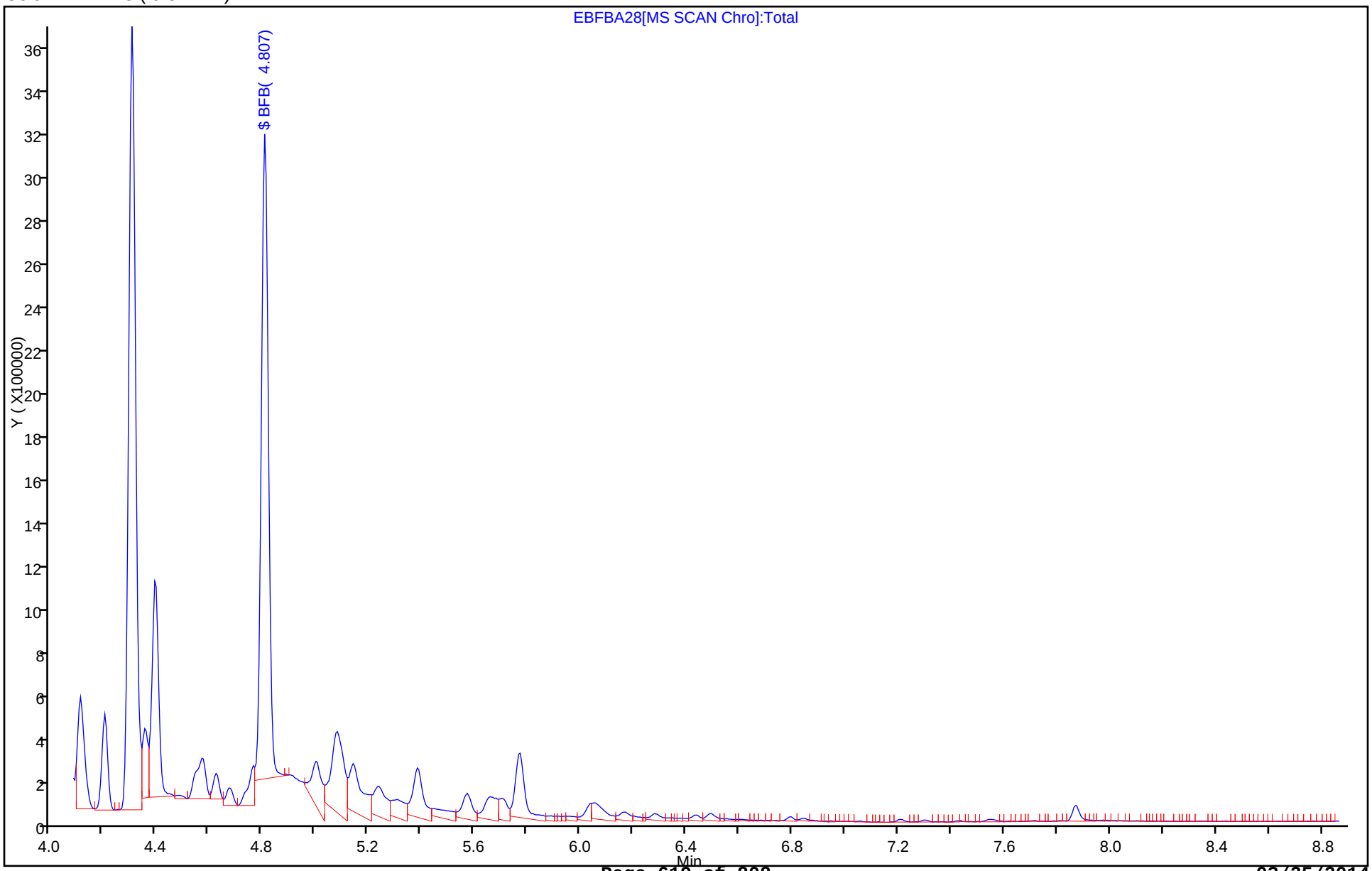
m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140312-518.b\EBFBC13.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	13-Mar-2014 11:24:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031314,BFB,,140-0000518-001 =E031314,BFB,,140-0000518-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	14-Mar-2014 07:08:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK018				
First Level Reviewer: tajh		Date:	14-Mar-2014 07:08:53		

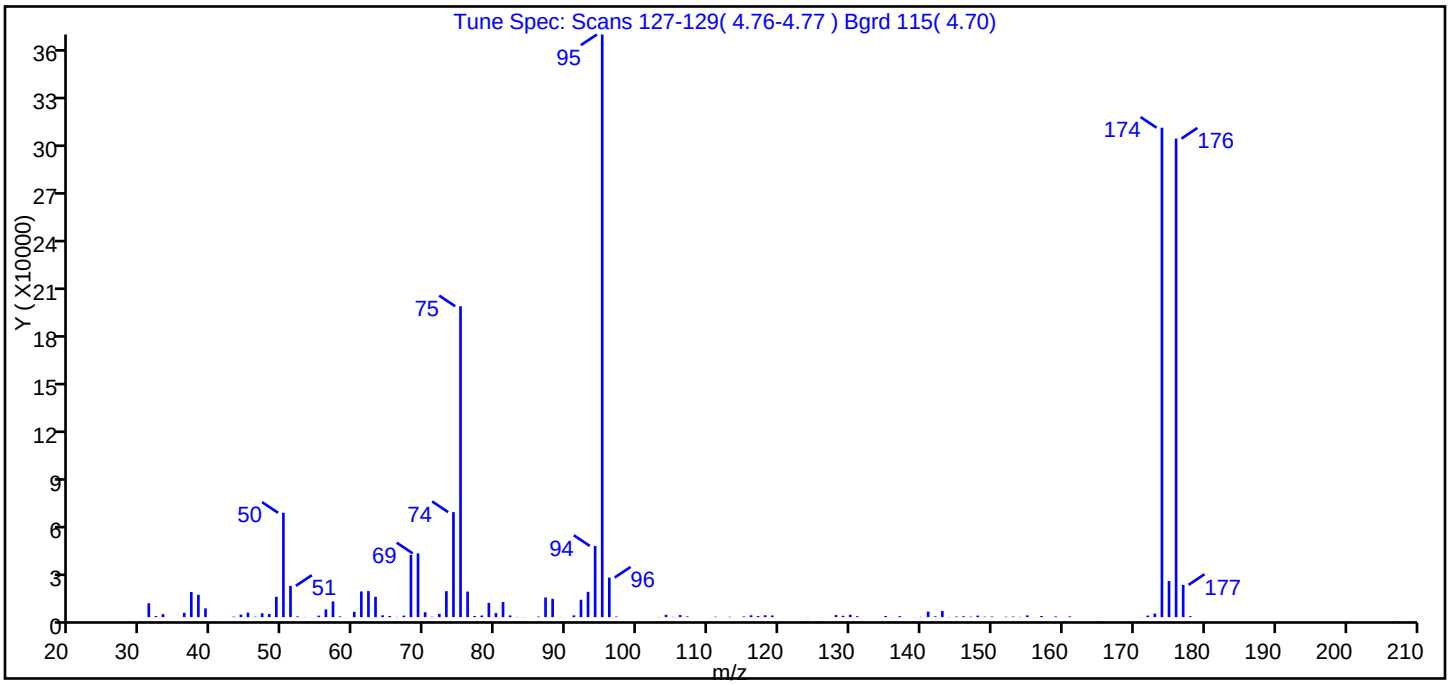
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.770	4.770	0.0	0	790295	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EBFBC13.D
Injection Date: 13-Mar-2014 11:24:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.90
75	30.00 - 60.00% of mass 95	53.40
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	84.00
175	5.00 - 9.00% of mass 174	6.20 (7.40)
176	95.00 - 101.00% of mass 174	82.10 (97.80)
177	5.00 - 9.00% of mass 176	5.50 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EBFBC13.D\ME_TO15.rslt\spectra.d
Injection Date: 13-Mar-2014 11:24:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 115(4.70)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	4	64.00	1158	94.00	45200	142.00	495
31.00	8815	65.00	713	95.00	369920	143.00	3960
32.00	686	66.00	164	96.00	25128	144.00	143
33.00	1943	67.00	978	97.00	378	145.00	418
36.00	2713	68.00	39552	103.00	115	146.00	558
37.00	15927	69.00	40496	104.00	1484	147.00	313
38.00	14188	70.00	3133	105.00	199	148.00	970
39.00	5566	71.00	259	106.00	1345	149.00	294
40.00	25	72.00	2088	107.00	447	150.00	381
43.00	348	73.00	16496	111.00	273	152.00	271
44.00	1591	74.00	66688	113.00	232	153.00	369
45.00	2876	75.00	197376	115.00	445	154.00	193
46.00	297	76.00	16225	116.00	1174	155.00	1109
47.00	2458	77.00	742	117.00	693	156.00	77
48.00	1978	78.00	1015	118.00	1203	157.00	727
49.00	12951	79.00	9036	119.00	1068	159.00	472
50.00	66256	80.00	2595	124.00	104	161.00	496
51.00	19856	81.00	9656	126.00	67	165.00	67
52.00	480	82.00	1077	128.00	1297	171.00	72
53.00	114	83.00	149	129.00	857	172.00	996
55.00	946	84.00	102	130.00	1551	173.00	2279
56.00	4893	86.00	407	131.00	611	174.00	310720
57.00	10001	87.00	12502	135.00	732	175.00	22984
58.00	463	88.00	11633	136.00	67	176.00	303808
60.00	3389	89.00	126	137.00	652	177.00	20472
61.00	16300	91.00	1125	139.00	73	178.00	594
62.00	16552	92.00	11034	140.00	171	207.00	73
63.00	12957	93.00	16084	141.00	3519		

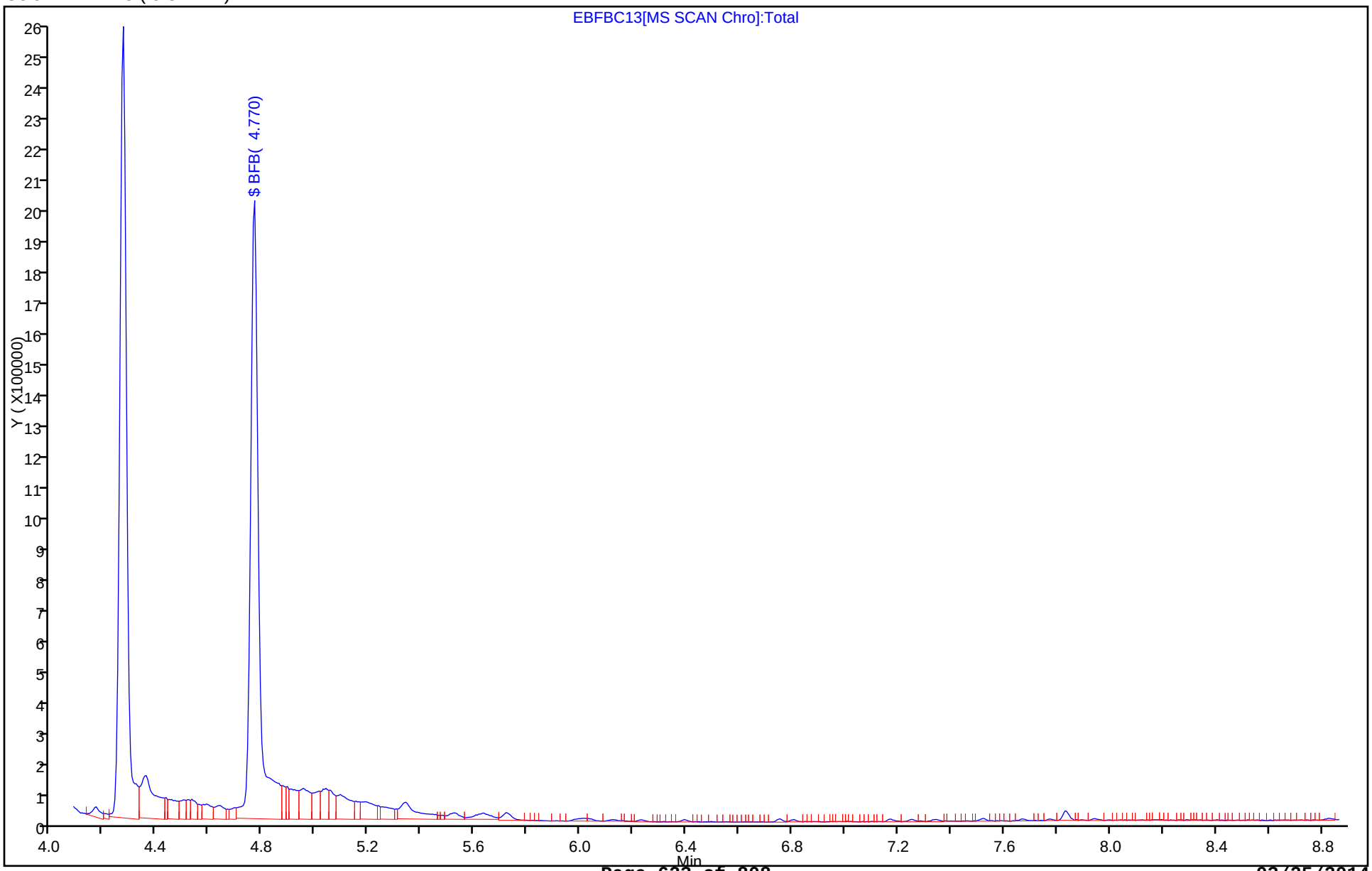
Report Date: 14-Mar-2014 07:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EBFBC13.D

Injection Date:	13-Mar-2014 11:24:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-951/5

Matrix: Air Lab File ID: EBLKC13.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/13/2014 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EBLKC13.D
Lims ID: mb Lab Sample ID: MB 140-951/5-A
Client ID:
Sample Type: MB
Inject. Date: 13-Mar-2014 14:20:30 ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 200ML BLK
Misc. Info.: E031314,TO155,,140-0000518-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:11:24 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	236266	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1075620	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	971795	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	850693	4.00	

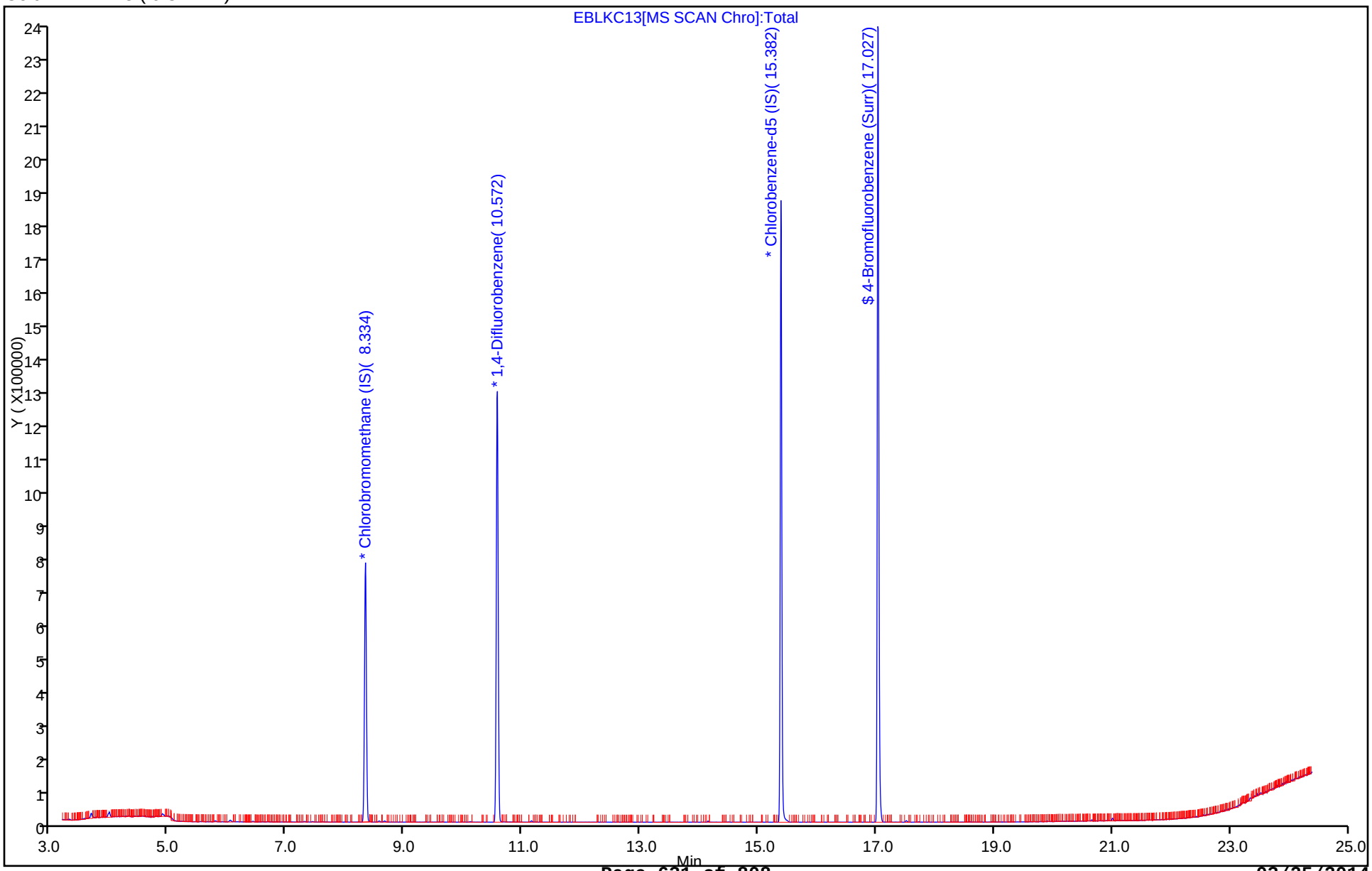
Report Date: 14-Mar-2014 07:13:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\EBLKC13.D

Injection Date:	13-Mar-2014 14:20:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	mb	Lab Sample ID:	MB 140-951/5-A	Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-951/1002

Matrix: Air Lab File ID: ECCVC13-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/13/2014 11:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.07		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.99		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.13		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.94		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.86		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.11		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.87		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.07		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.01		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.32		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.06		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.15		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.96		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.96		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.31		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.06		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.03		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.85		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.97		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.15		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.43		0.40	0.080
591-78-6	2-Hexanone	100.20	1.72		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.26		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.84		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.01		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.77		0.20	0.018
67-64-1	Acetone	58.08	1.47	J	2.0	0.56
71-43-2	Benzene	78.11	2.05		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.06		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.18		0.080	0.018
75-25-2	Bromoform	252.75	1.64		0.080	0.019
74-83-9	Bromomethane	94.94	2.46		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.22		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-951/1002

Matrix: Air Lab File ID: ECCVC13-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/13/2014 11:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.51		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.00		0.080	0.020
75-00-3	Chloroethane	64.52	2.37		0.080	0.014
67-66-3	Chloroform	119.38	2.10		0.080	0.015
74-87-3	Chloromethane	50.49	2.21		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.97		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.10		0.080	0.030
110-82-7	Cyclohexane	84.16	2.22		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.96		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.39		0.080	0.027
64-17-5	Ethanol	46.07	8.85		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.00		0.080	0.027
142-82-5	Heptane	100.21	2.17		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.97		0.40	0.031
110-54-3	Hexane	86.17	1.87		0.20	0.013
496-11-7	Indane	118.18	2.03		0.080	0.080
95-13-6	Indene	116.16	2.09		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.77		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.85		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.08		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.15		0.080	0.048
91-20-3	Naphthalene	128.17	2.02		0.20	0.036
95-47-6	o-Xylene	106.17	2.01		0.080	0.024
115-07-1	Propene	42.08	1.94		0.20	0.031
100-42-5	Styrene	104.15	2.05		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.00		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.51		0.40	0.025
110-02-1	Thiophene	84.14	2.08		0.080	0.080
108-88-3	Toluene	92.14	1.92		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.06		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.95		0.080	0.019
79-01-6	Trichloroethene	131.39	2.12		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.44		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.46		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-951/1002

Matrix: Air Lab File ID: ECCVC13-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/13/2014 11:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 951 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\ECCVC13-LCS.d
Lims ID: LCS Lab Sample ID:
Client ID:
Sample Type: LCS
Inject. Date: 13-Mar-2014 11:55:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031314,TO155,,140-0000518-002 =E031314,TO155,,140-0000518-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140312-518.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 07:11:24 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: tajh Date: 14-Mar-2014 07:11:24

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	219421	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.578	0.0	95	984733	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	930182	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	85	856961	4.21	
	6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	74005	2.40	
	7 Propene	41	3.309	3.309	0.0	92	106921	1.94	
	8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	580640	2.39	
	9 Chloromethane	52	3.530	3.530	0.0	98	42901	2.21	
	10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	339473	2.32	
	11 Acetaldehyde	44	3.675	3.675	0.0	92	175655	9.56	
	12 Vinyl chloride	62	3.692	3.692	0.0	99	183715	2.46	
	14 Butane	43	3.772	3.772	0.0	82	234031	2.23	
	13 Butadiene	54	3.772	3.772	0.0	71	119461	2.31	
	15 Bromomethane	94	4.074	4.074	0.0	98	198619	2.46	
	16 Chloroethane	64	4.209	4.209	0.0	96	90124	2.37	
	17 Ethanol	31	4.312	4.312	0.0	98	194227	8.85	
	18 Vinyl bromide	106	4.495	4.495	0.0	96	185217	2.54	
	19 2-Methylbutane	43	4.538	4.538	0.0	87	173733	2.26	
	21 Trichlorofluoromethane	101	4.748	4.748	0.0	100	593722	2.44	
	20 Acrolein	56	4.765	4.765	0.0	85	42896	1.85	
	22 Acetonitrile	40	4.835	4.835	0.0	97	39824	1.91	
	23 Acetone	58	4.878	4.878	0.0	87	48920	1.47	
	25 Pentane	72	4.959	4.959	0.0	97	35919	2.49	
	24 Isopropyl alcohol	45	4.970	4.970	0.0	74	151726	1.77	
	26 Ethyl ether	31	5.126	5.126	0.0	85	98348	1.76	
	27 1,1-Dichloroethene	96	5.439	5.439	0.0	96	137638	2.11	
	29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	200536	1.66	
	28 Acrylonitrile	53	5.557	5.557	0.0	93	64427	1.68	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	94	320366	2.13	
	31 Methylene Chloride	84	5.789	5.789	0.0	83	130194	2.08	
	32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	133753	1.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	100	504079	2.22	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	97	164775	2.06	
35 2-Methylpentane	43	6.603	6.603	0.0	87	266162	1.84	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	367962	1.85	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	251268	1.86	
38 Vinyl acetate	43	7.126	7.126	0.0	99	218390	1.64	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	82	51320	1.43	
40 Hexane	56	7.585	7.585	0.0	82	109033	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	147236	1.97	
42 Ethyl acetate	43	8.200	8.200	0.0	97	188632	1.61	
43 Chloroform	83	8.351	8.351	0.0	96	394014	2.10	
44 Tetrahydrofuran	42	8.755	8.755	0.0	77	85092	1.51	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	441718	2.07	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	259715	2.15	
47 n-Butanol	31	9.963	9.963	0.0	68	28140	1.53	
49 Cyclohexane	69	9.990	9.990	0.0	88	82577	2.22	
48 Benzene	78	9.995	9.995	0.0	97	407135	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	477630	2.51	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	85	99216	2.15	
52 Thiophene	84	10.281	10.281	0.0	93	255634	2.08	
53 Isooctane	57	10.788	10.788	0.0	96	602132	1.97	
54 n-Heptane	71	11.182	11.182	0.0	82	162657	2.17	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	79	124804	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	91	207808	2.12	
57 Dibromomethane	93	11.397	11.397	0.0	93	202730	2.17	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	406762	2.18	
59 1,4-Dioxane	88	11.570	11.570	0.0	88	48630	1.85	
60 Methyl methacrylate	41	11.651	11.651	0.0	84	133294	1.79	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	297960	2.13	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	207054	1.77	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	95	235782	2.10	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	97	244393	1.95	
65 Toluene	91	13.403	13.403	0.0	94	477734	1.92	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	97	142617	1.94	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	421104	1.95	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	419897	1.93	
69 2-Hexanone	58	13.872	13.872	0.0	95	101016	1.72	
70 n-Octane	85	14.099	14.099	0.0	81	176865	1.99	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	326308	1.96	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	262588	2.01	
73 Tetrachloroethene	129	14.552	14.552	0.0	93	212086	2.00	
74 Chlorobenzene	112	15.436	15.436	0.0	82	396471	2.00	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	81	338930	1.78	
76 Ethylbenzene	91	15.722	15.722	0.0	99	639812	2.00	
77 2-Ethylthiophene	97	15.824	15.824	0.0	98	512165	2.00	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1043035	4.15	
81 n-Nonane	57	16.304	16.304	0.0	79	252236	1.81	
79 Bromoform	173	16.337	16.337	0.0	95	244885	1.64	
80 Styrene	104	16.353	16.353	0.0	97	355726	2.05	
82 o-Xylene	91	16.412	16.412	0.0	97	545599	2.01	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	317728	1.99	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	96	113754	1.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	16.995	16.995	0.0	98	709577	1.98	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	180647	1.93	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	175565	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	98	691059	2.01	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	305218	1.96	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	83	260288	2.03	
91 n-Decane	57	18.073	18.073	0.0	96	301265	2.04	
92 tert-Butylbenzene	119	18.208	18.208	0.0	85	622762	1.99	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	93	590211	2.07	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	786942	2.04	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	98	383068	2.06	
96 Benzyl chloride	91	18.580	18.580	0.0	97	484704	2.06	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	89	371020	2.03	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	88	687221	2.11	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	492357	2.03	
100 Butylcyclohexane	83	18.758	18.758	0.0	96	466115	2.08	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	89	506032	2.03	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	82	364374	2.06	
103 Indene	116	19.087	19.087	0.0	86	495059	2.09	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	649521	2.25	
106 Undecane	57	19.410	19.410	0.0	88	261695	2.01	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	631704	2.26	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	646391	2.34	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	93	407976	2.26	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	502701	2.18	
110 Dodecane	57	20.462	20.462	0.0	90	220960	2.26	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	221230	1.87	
112 Naphthalene	128	20.796	20.796	0.0	98	416718	2.02	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	281921	1.89	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	84	303827	1.97	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	176379	2.00	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	113886	11.7	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	98	96160	11.3	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1278095	1.90	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1201788	2.04	
A 120 C8 Range	1	14.104	14.050 -	14.147	0	1410822	2.01	
S 124 Xylenes, Total	100				0		6.16	

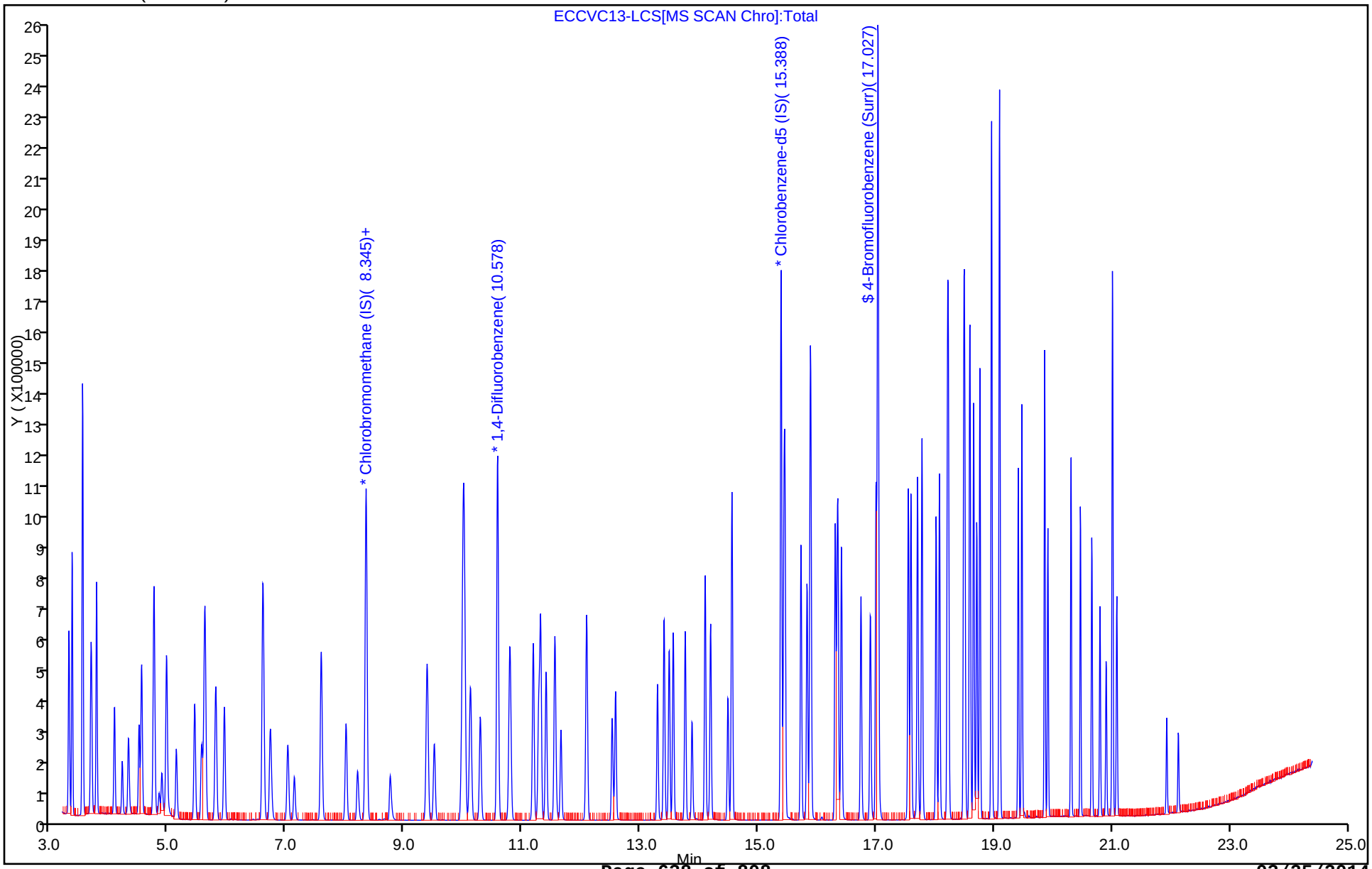
Report Date: 14-Mar-2014 07:11:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140312-518.b\ECCVC13-LCS.d

Injection Date:	13-Mar-2014 11:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS	Lab Sample ID:		Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Instrument ID: ME Start Date: 03/13/2014 11:24

Analysis Batch Number: 951 End Date: 03/14/2014 08:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-951/1		03/13/2014 11:24	1	EBFBC13.D	RTX-5 0.32(mm)
CCVIS 140-951/2		03/13/2014 11:55	1	ECCVC13.D	RTX-5 0.32(mm)
LCS 140-951/1002		03/13/2014 11:55	1	ECCVC13-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/13/2014 13:35	1		RTX-5 0.32(mm)
MB 140-951/5		03/13/2014 14:20	1	EBLKC13.D	RTX-5 0.32(mm)
ZZZZZ		03/13/2014 15:05	13.93		RTX-5 0.32(mm)
ZZZZZ		03/13/2014 15:52	1		RTX-5 0.32(mm)
ZZZZZ		03/13/2014 16:37	1.58		RTX-5 0.32(mm)
ZZZZZ		03/13/2014 17:24	1		RTX-5 0.32(mm)
ZZZZZ		03/13/2014 18:55	1		RTX-5 0.32(mm)
140-1037-1	PCV-IA1-B10	03/13/2014 19:42	1	EC13P107.D	RTX-5 0.32(mm)
140-1037-2	PCV-IA2-B10	03/13/2014 20:27	1	EC13P108.D	RTX-5 0.32(mm)
140-1037-3	PCV-IA3-B10	03/13/2014 21:14	1	EC13P109.D	RTX-5 0.32(mm)
140-1037-4	PCV-IALC-B10	03/13/2014 21:59	1	EC13P110.D	RTX-5 0.32(mm)
140-1037-5	PCV-AMB-2	03/13/2014 22:44	1	EC13P111.D	RTX-5 0.32(mm)
ZZZZZ		03/13/2014 23:30	1		RTX-5 0.32(mm)
140-1037-6	PCV-IA2-B16	03/14/2014 00:15	1	EC13P112.D	RTX-5 0.32(mm)
140-1037-7	PCV-IA1-B16	03/14/2014 01:01	1	EC13P113.D	RTX-5 0.32(mm)
140-1037-8	PCV-IA3-B16	03/14/2014 01:46	1	EC13P114.D	RTX-5 0.32(mm)
140-1037-9	PCV-IA2-B18	03/14/2014 02:31	1	EC13P115.D	RTX-5 0.32(mm)
140-1037-10	PCV-IA3-B18	03/14/2014 03:16	1	EC13P116.D	RTX-5 0.32(mm)
140-1037-11	PCV-IA1-B18	03/14/2014 04:01	1	EC13P201.D	RTX-5 0.32(mm)
140-1037-12	PCV-IATC-B18	03/14/2014 04:46	1	EC13P202.D	RTX-5 0.32(mm)
ZZZZZ		03/14/2014 05:30	4.08		RTX-5 0.32(mm)
140-1037-13	PCV-AMB1	03/14/2014 06:16	1	EC13P204.D	RTX-5 0.32(mm)
ZZZZZ		03/14/2014 07:00	1		RTX-5 0.32(mm)
140-1037-2 DL	PCV-IA2-B10 DL	03/14/2014 07:46	1	EC13P108DL.D	RTX-5 0.32(mm)
140-1037-9 DL	PCV-IA2-B18 DL	03/14/2014 08:31	1	EC13P115DL.D	RTX-5 0.32(mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-904-1

SDG No.:

Client Sample ID: 10721 | Lab Sample ID: 140-904-10

Matrix: Air | Lab File ID: 140-904-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/18/2014 08:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 13:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 858 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-904-1

SDG No.:

Client Sample ID: 10721 | Lab Sample ID: 140-904-10

Matrix: Air | Lab File ID: 140-904-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/18/2014 08:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 13:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 858 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-904-1

SDG No.:

Client Sample ID: 10721 | Lab Sample ID: 140-904-10

Matrix: Air | Lab File ID: 140-904-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/18/2014 08:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 13:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 858 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-904-1

SDG No.:

Client Sample ID: 10721 Lab Sample ID: 140-904-10

Matrix: Air Lab File ID: 140-904-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/18/2014 08:00

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 13:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 858 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140218-450.b\140-904-a-10.D
Lims ID: 140-904-A-10 Lab Sample ID: 140-904-10
Client ID: 10721
Sample Type: Client
Inject. Date: 19-Feb-2014 13:36:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10721
Misc. Info.: J021914,TO15,,140-0000450-005
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140218-450.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 14:26:52 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 14:26:52

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.404	9.411	-0.007	94	255323	4.00	
*	2 1,4-Difluorobenzene	114	11.561	11.568	-0.007	97	1179804	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.220	16.227	-0.007	92	925595	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.839	17.840	-0.001	82	695376	3.77	
	28 2-Methyl-2-propanol	59	6.526	6.490	0.036	17	2960	0.0193	

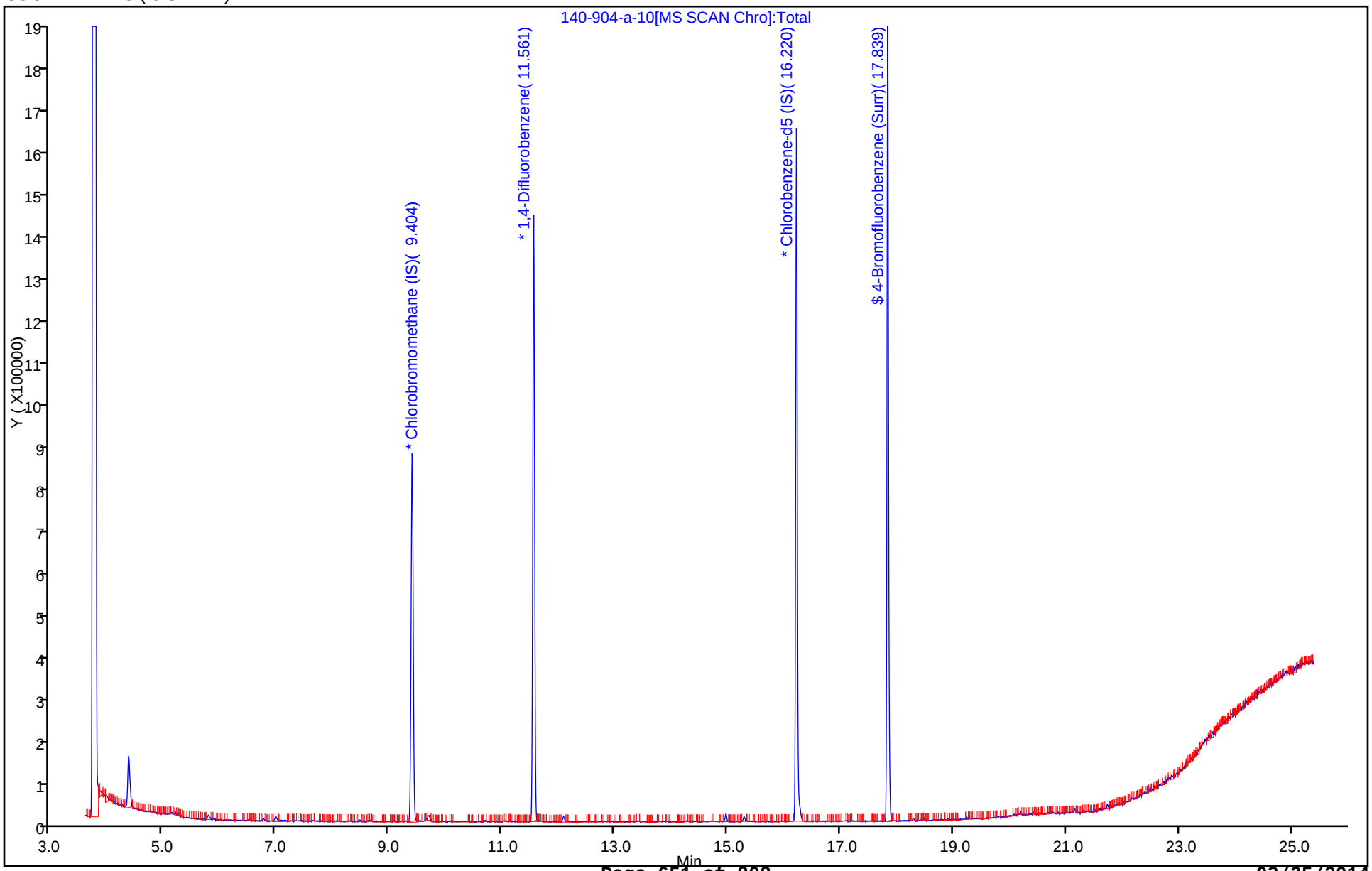
Report Date: 19-Feb-2014 14:26:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140218-450.b\140-904-a-10.D

Injection Date:	19-Feb-2014 13:36:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-904-A-10	Lab Sample ID:	140-904-10	Worklist Smp#:	5
Client ID:	10721				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 | Lab Sample ID: 140-924-1

Matrix: Air | Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 | Lab Sample ID: 140-924-1

Matrix: Air | Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 Lab Sample ID: 140-924-1

Matrix: Air Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 Lab Sample ID: 140-924-1

Matrix: Air Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-1.D				
Lims ID:	140-924-A-1	Lab Sample ID:	140-924-1		
Client ID:	10178				
Sample Type:	Client				
Inject. Date:	21-Feb-2014 00:06:30	ALS Bottle#:	7	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10178				
Misc. Info.:	E022014,TO155,,140-0000454-016				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Feb-2014 06:48:38	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK011				
First Level Reviewer: tajh		Date:	21-Feb-2014 06:48:38		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	264931	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1326530	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1163983	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	997607	3.91	
7 Propene	41	3.314	3.309	0.005	91	2948	0.0442	
23 Acetone	58	4.883	4.889	-0.006	98	29636	0.7385	
31 Methylene Chloride	84	5.789	5.795	-0.006	75	6417	0.0848	
40 Hexane	56	7.590	7.596	-0.006	52	1705	0.0242	

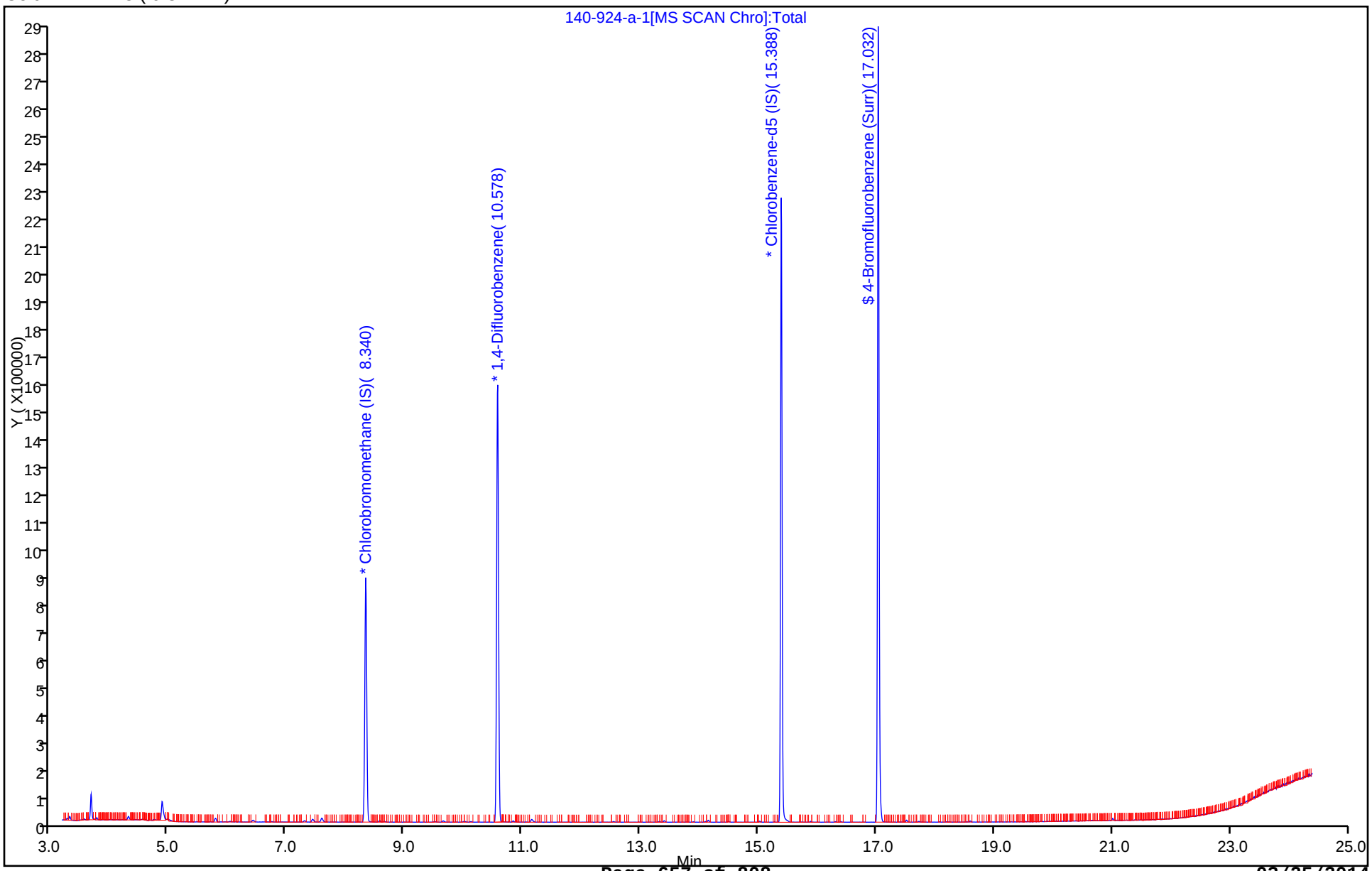
Report Date: 21-Feb-2014 06:48:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-1.D

Injection Date:	21-Feb-2014 00:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-1	Lab Sample ID:	140-924-1	Worklist Smp#:	16
Client ID:	10178				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 Lab Sample ID: 140-924-2

Matrix: Air Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 | Lab Sample ID: 140-924-2

Matrix: Air | Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 Lab Sample ID: 140-924-2

Matrix: Air Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 Lab Sample ID: 140-924-2

Matrix: Air Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-2.D
Lims ID: 140-924-A-2 Lab Sample ID: 140-924-2
Client ID: 10573
Sample Type: Client
Inject. Date: 21-Feb-2014 00:51:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10573
Misc. Info.: E022014,TO155,,140-0000454-017
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:49:12 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:49:12

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	263593	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1289974	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1134901	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	978479	3.94	
	7 Propene	41	3.320	3.309	0.011	72	2464	0.0372	
	19 2-Methylbutane	43	4.549	4.544	0.005	77	1478	0.0160	
	31 Methylene Chloride	84	5.795	5.795	0.0	71	4900	0.0651	
	40 Hexane	56	7.590	7.596	-0.006	47	978	0.0139	
	62 4-Methyl-2-pentanone (MIBK)	43	12.541	12.524	0.017	80	3622	0.0237	

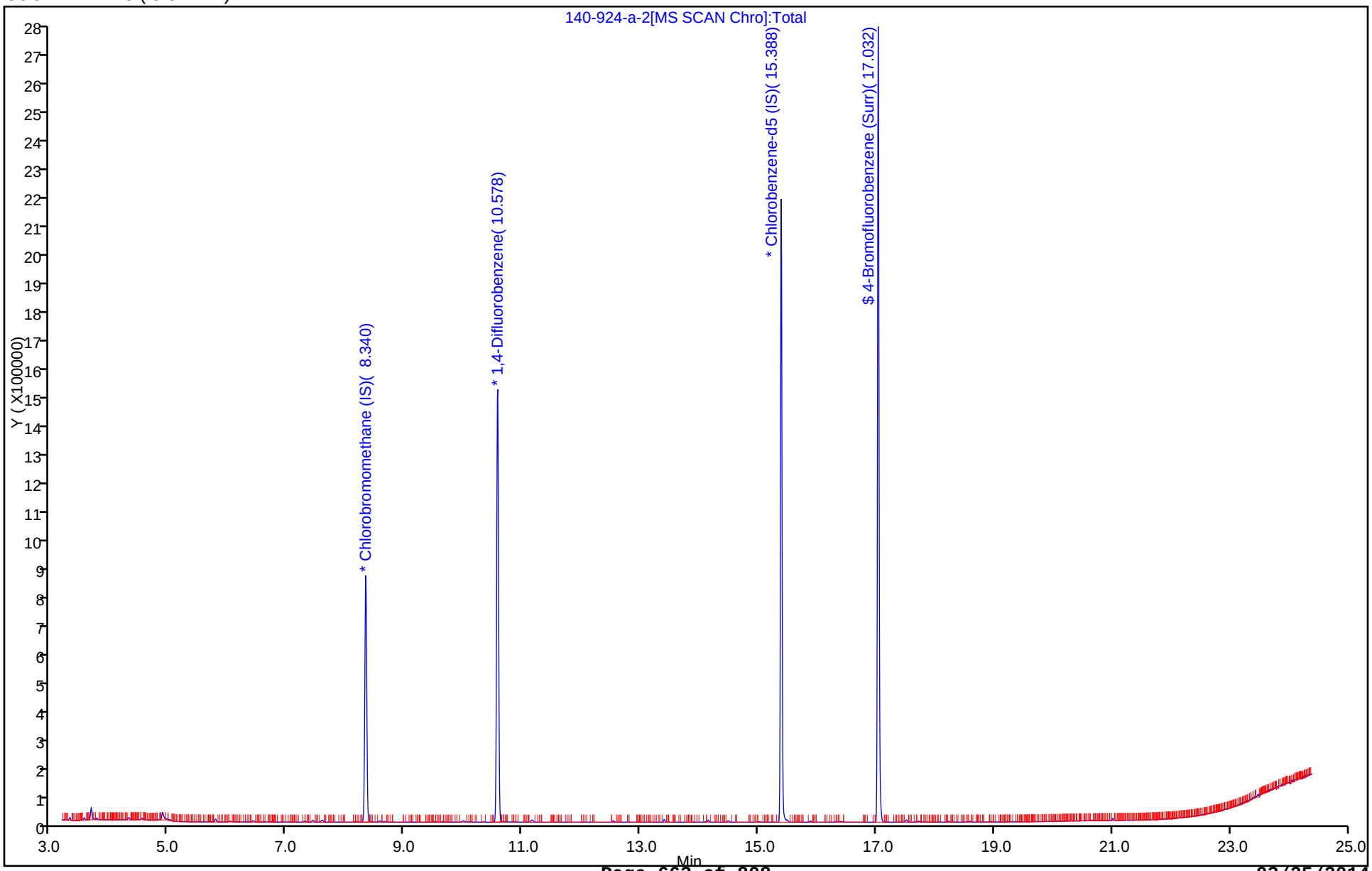
Report Date: 21-Feb-2014 06:49:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-2.D

Injection Date:	21-Feb-2014 00:51:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-2	Lab Sample ID:	140-924-2	Worklist Smp#:	17
Client ID:	10573				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 | Lab Sample ID: 140-924-3

Matrix: Air | Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 | Lab Sample ID: 140-924-3

Matrix: Air | Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 Lab Sample ID: 140-924-3

Matrix: Air Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 Lab Sample ID: 140-924-3

Matrix: Air Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-3.D
Lims ID: 140-924-A-3 Lab Sample ID: 140-924-3
Client ID: 10331
Sample Type: Client
Inject. Date: 21-Feb-2014 01:37:30 ALS Bottle#: 9 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10331
Misc. Info.: E022014,TO155,,140-0000454-018
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:49:51 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:49:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	264141	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1320820	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1160113	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1007016	3.96	
7 Propene	41	3.325	3.309	0.016	54	4236	0.0638	
14 Butane	43	3.778	3.778	0.0	81	5398	0.0427	
19 2-Methylbutane	43	4.544	4.544	0.0	84	7168	0.0775	
25 Pentane	72	4.964	4.964	0.0	89	1219	0.0703	
31 Methylene Chloride	84	5.800	5.795	0.005	75	4651	0.0616	
40 Hexane	56	7.596	7.596	0.0	74	1597	0.0227	
65 Toluene	91	13.403	13.409	-0.006	91	25369	0.0816	

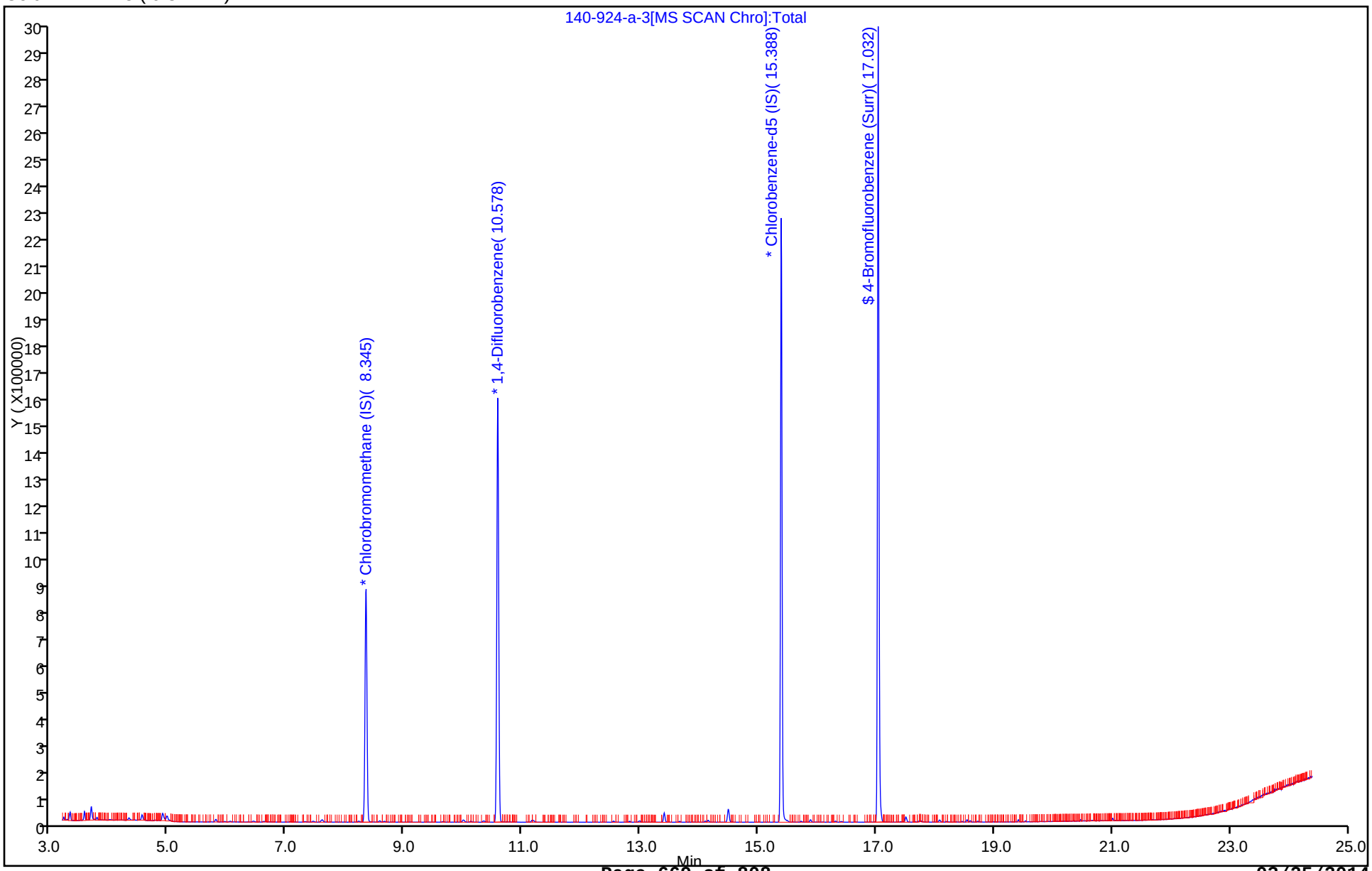
Report Date: 21-Feb-2014 06:49:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-3.D

Injection Date:	21-Feb-2014 01:37:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-3	Lab Sample ID:	140-924-3	Worklist Smp#:	18
Client ID:	10331				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 Lab Sample ID: 140-924-5

Matrix: Air Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 | Lab Sample ID: 140-924-5

Matrix: Air | Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 | Lab Sample ID: 140-924-5

Matrix: Air | Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 Lab Sample ID: 140-924-5

Matrix: Air Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-5.D
Lims ID: 140-924-A-5 Lab Sample ID: 140-924-5
Client ID: 10369
Sample Type: Client
Inject. Date: 21-Feb-2014 03:07:30 ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10369
Misc. Info.: E022014,TO155,,140-0000454-020
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:51:28 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:51:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	251048	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1265049	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1088312	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949301	3.98	
7 Propene	41	3.314	3.309	0.005	88	2634	0.0417	
19 2-Methylbutane	43	4.538	4.544	-0.006	35	1402	0.0159	
23 Acetone	58	4.883	4.889	-0.006	99	32684	0.8595	
24 Isopropyl alcohol	45	4.975	4.975	0.0	80	5718	0.0584	
31 Methylene Chloride	84	5.789	5.795	-0.006	78	5169	0.0721	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	93	3454	0.0841	
40 Hexane	56	7.590	7.596	-0.006	36	1186	0.0178	
56 Trichloroethene	130	11.300	11.316	-0.016	64	3043	0.0242	
91 n-Decane	57	18.073	18.073	0.0	83	5663	0.0328	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	78	9488	0.0284	

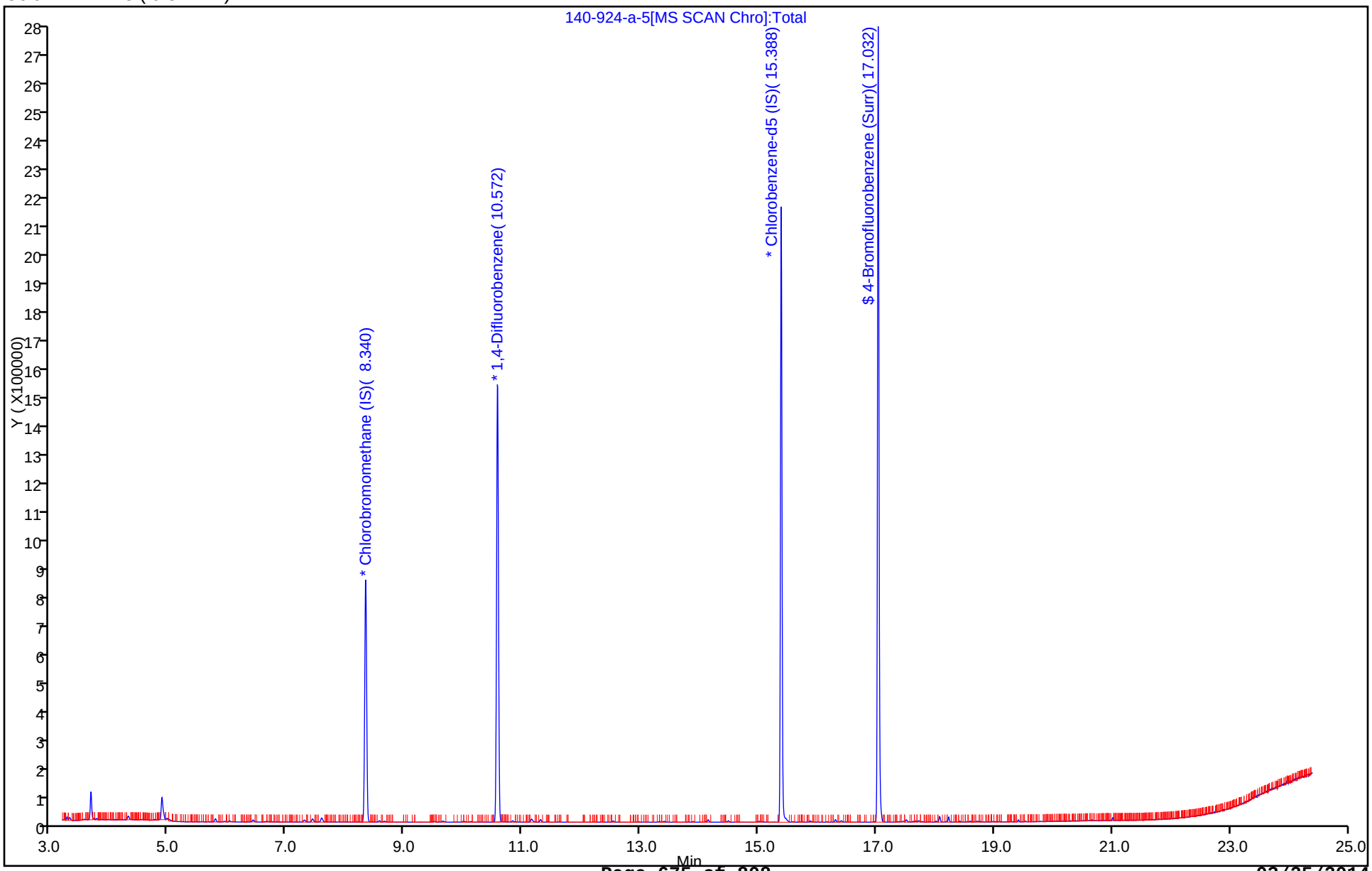
Report Date: 21-Feb-2014 06:51:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-5.D

Injection Date:	21-Feb-2014 03:07:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-5	Lab Sample ID:	140-924-5	Worklist Smp#:	20
Client ID:	10369				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 Lab Sample ID: 140-924-6

Matrix: Air Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 | Lab Sample ID: 140-924-6

Matrix: Air | Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 Lab Sample ID: 140-924-6

Matrix: Air Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 Lab Sample ID: 140-924-6

Matrix: Air Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-6.D
Lims ID: 140-924-A-6 Lab Sample ID: 140-924-6
Client ID: 10709
Sample Type: Client
Inject. Date: 21-Feb-2014 03:53:30 ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10709
Misc. Info.: E022014,TO155,,140-0000454-021
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:52:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:52:02

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	239969	4.00	
*	2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1193360	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1057922	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940280	4.06	
	7 Propene	41	3.325	3.309	0.016	62	2322	0.0385	
	14 Butane	43	3.783	3.778	0.005	82	6763	0.0589	
	19 2-Methylbutane	43	4.549	4.544	0.005	76	2549	0.0303	
	40 Hexane	56	7.590	7.596	-0.006	78	2107	0.0330	
	54 n-Heptane	71	11.181	11.192	-0.011	70	1918	0.0211	

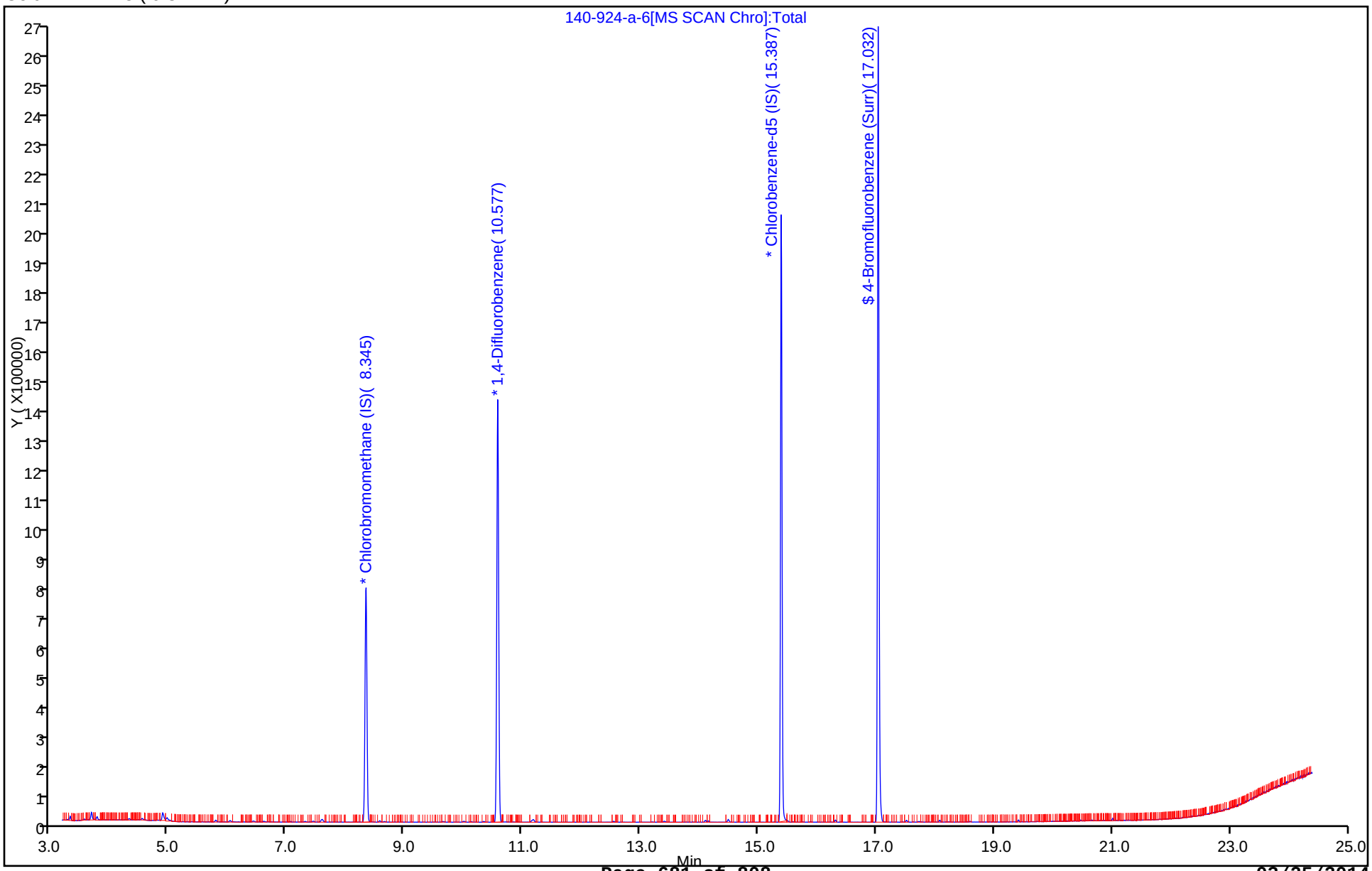
Report Date: 21-Feb-2014 06:52:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-6.D

Injection Date:	21-Feb-2014 03:53:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-6	Lab Sample ID:	140-924-6	Worklist Smp#:	21
Client ID:	10709				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 | Lab Sample ID: 140-924-7

Matrix: Air | Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 | Lab Sample ID: 140-924-7

Matrix: Air | Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 | Lab Sample ID: 140-924-7

Matrix: Air | Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 Lab Sample ID: 140-924-7

Matrix: Air Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-7.D
Lims ID: 140-924-A-7 Lab Sample ID: 140-924-7
Client ID: 09595
Sample Type: Client
Inject. Date: 21-Feb-2014 04:38:30 ALS Bottle#: 13 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09595
Misc. Info.: E022014,TO155,,140-0000454-022
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:52:38 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:52:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	218262	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1062257	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	992068	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	869744	4.00	
19 2-Methylbutane	43	4.549	4.544	0.005	59	1722	0.0225	
23 Acetone	58	4.889	4.889	0.0	100	22586	0.6832	
40 Hexane	56	7.590	7.596	-0.006	49	837	0.0144	

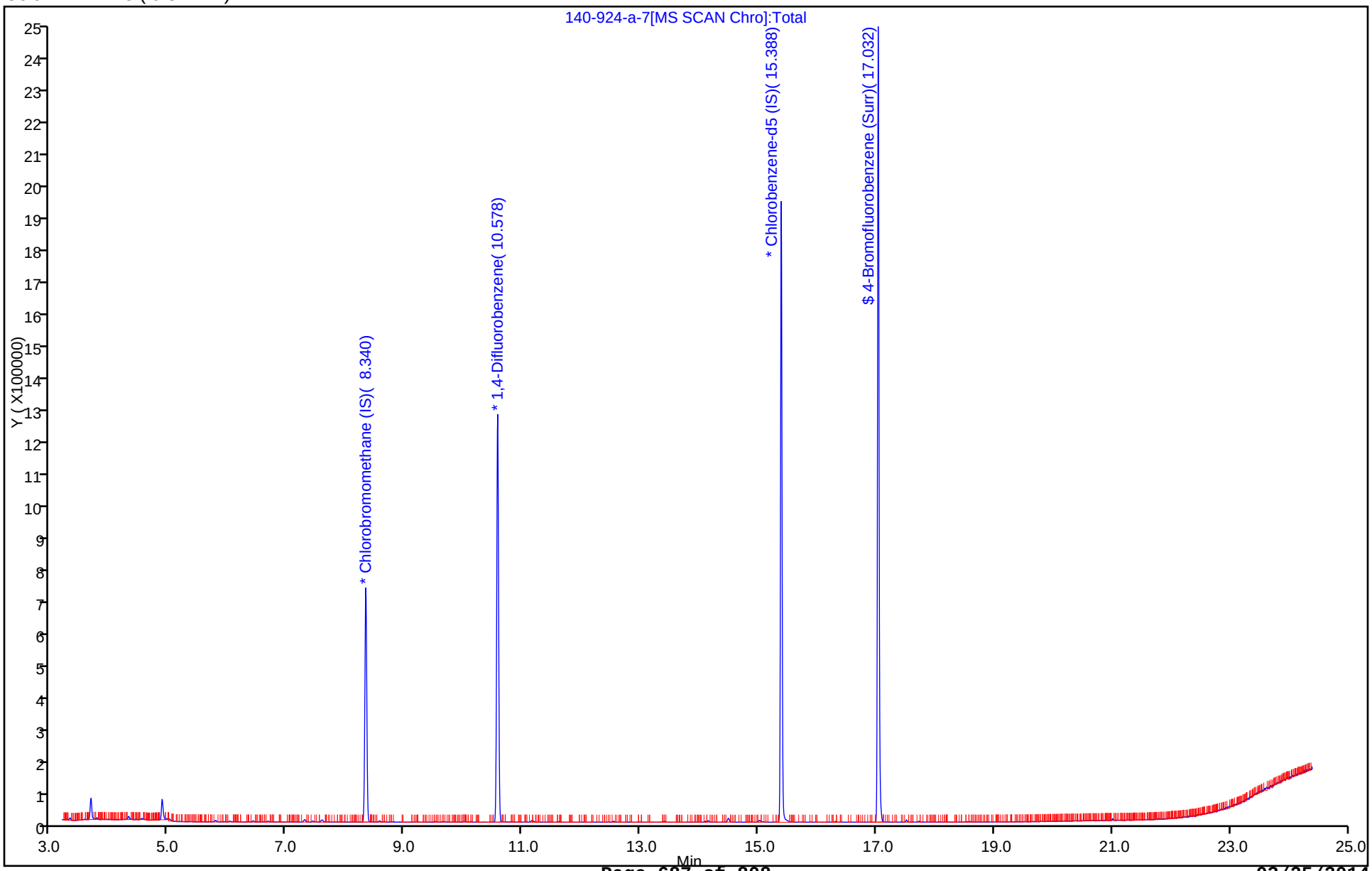
Report Date: 21-Feb-2014 06:52:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-7.D

Injection Date:	21-Feb-2014 04:38:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-7	Lab Sample ID:	140-924-7	Worklist Smp#:	22
Client ID:	09595				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 | Lab Sample ID: 140-924-8

Matrix: Air | Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 | Lab Sample ID: 140-924-8

Matrix: Air | Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 Lab Sample ID: 140-924-8

Matrix: Air Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 Lab Sample ID: 140-924-8

Matrix: Air Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-8.D
Lims ID: 140-924-A-8 Lab Sample ID: 140-924-8
Client ID: 09613
Sample Type: Client
Inject. Date: 21-Feb-2014 05:24:30 ALS Bottle#: 14 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09613
Misc. Info.: E022014,TO155,,140-0000454-023
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:53:12 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:53:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	234630	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1123256	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1033420	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	930057	4.11	
7 Propene	41	3.320	3.309	0.011	74	1988	0.0337	
14 Butane	43	3.778	3.778	0.0	83	4934	0.0440	
19 2-Methylbutane	43	4.549	4.544	0.005	72	2633	0.0320	
24 Isopropyl alcohol	45	4.980	4.975	0.005	55	3764	0.0411	
40 Hexane	56	7.596	7.596	0.0	81	1767	0.0283	

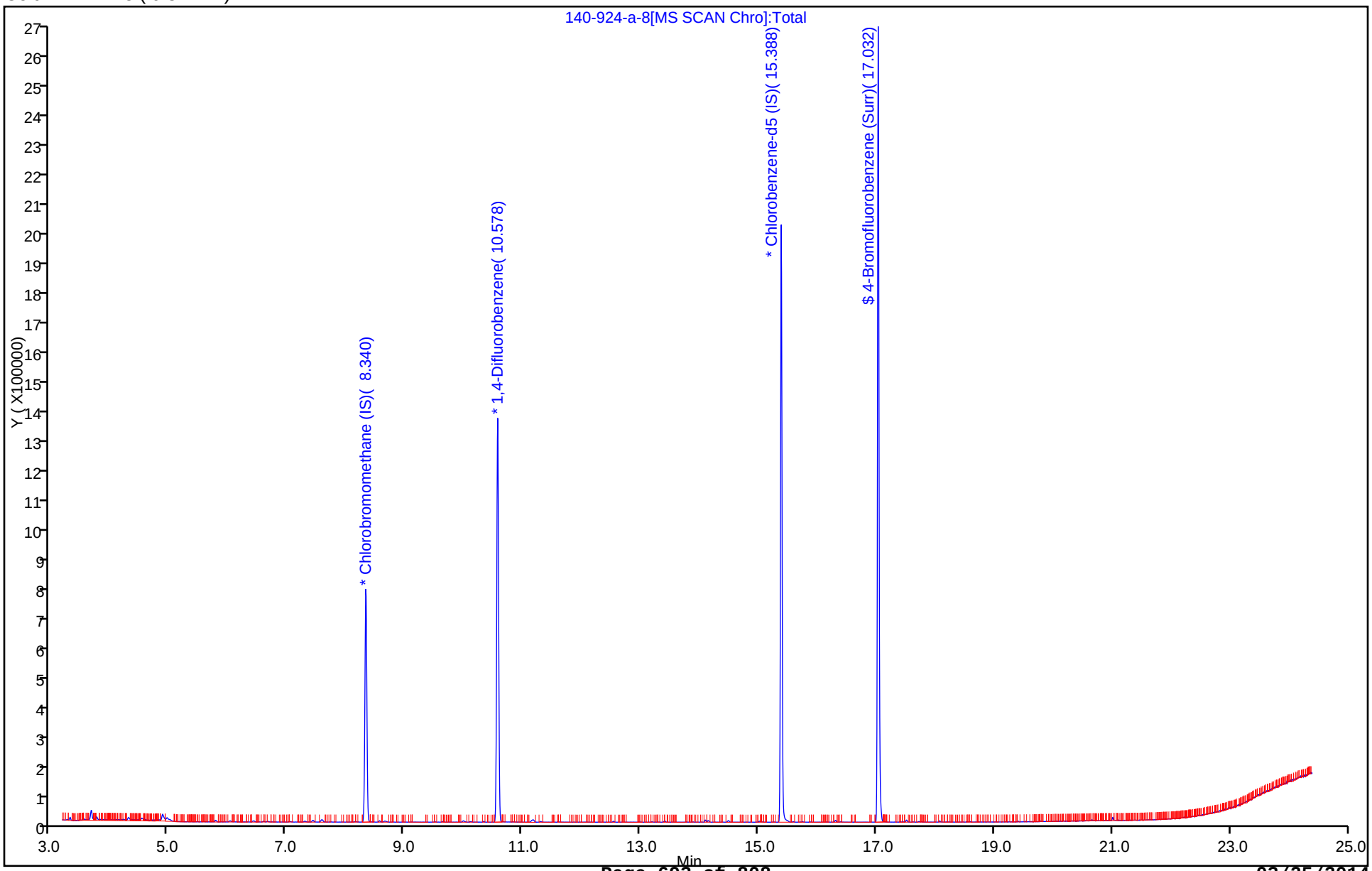
Report Date: 21-Feb-2014 06:53:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-8.D

Injection Date:	21-Feb-2014 05:24:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-8	Lab Sample ID:	140-924-8	Worklist Smp#:	23
Client ID:	09613				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 | Lab Sample ID: 140-925-2

Matrix: Air | Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D				
Lims ID:	140-925-A-2	Lab Sample ID:	140-925-2		
Client ID:	09597				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 03:01:30	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09597				
Misc. Info.:	J022114,TO15,,140-0000456-014				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:40:23	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:40:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	391979	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.563	-0.001	94	1790004	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	93	1514247	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1151377	3.81	
33 Carbon disulfide	76	6.954	6.954	0.0	67	6210	0.0146	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.391	0.015	86	15435	0.0508	

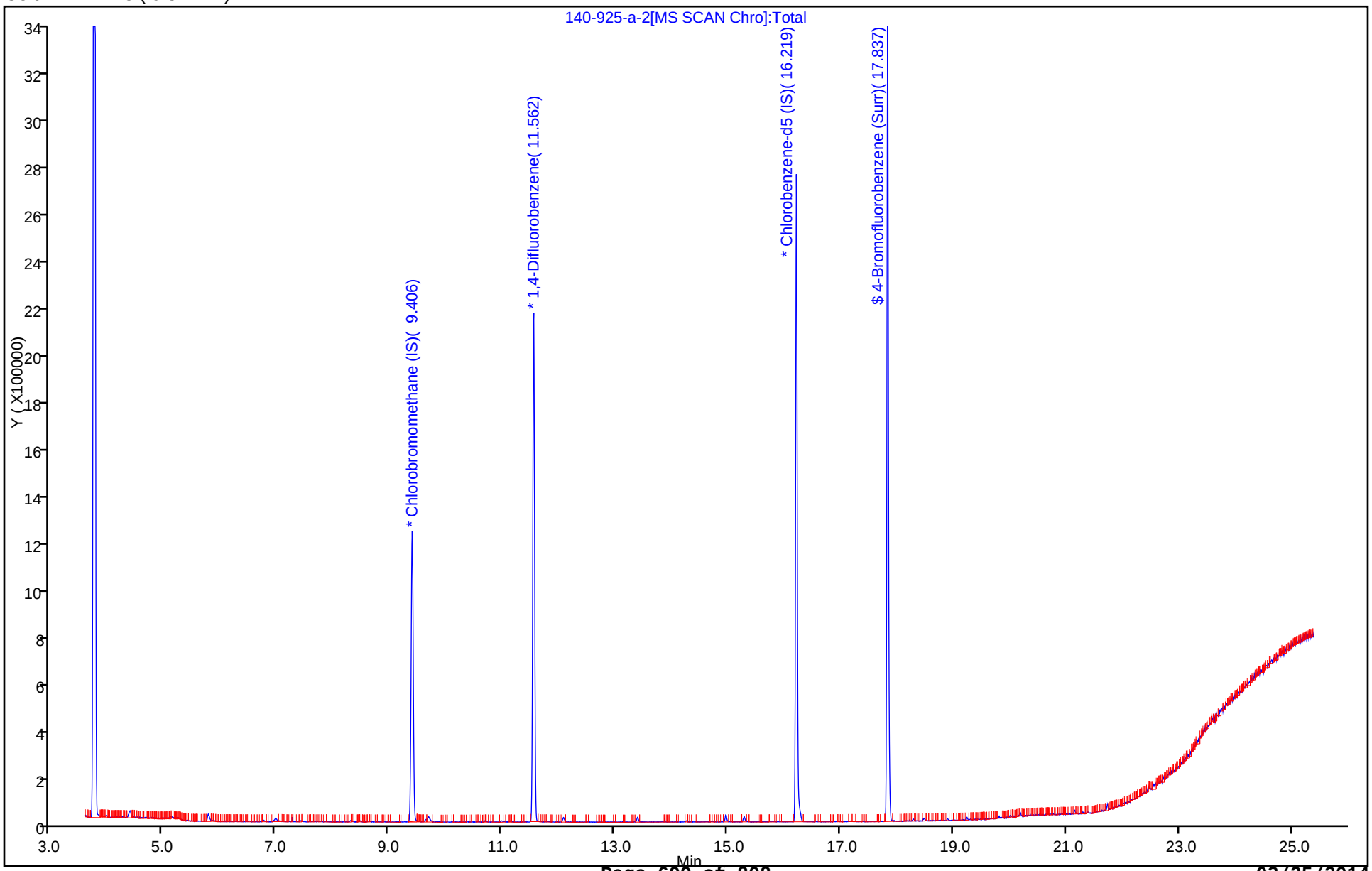
Report Date: 23-Feb-2014 13:40:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D

Injection Date:	22-Feb-2014 03:01:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-2	Lab Sample ID:	140-925-2	Worklist Smp#:	14
Client ID:	09597				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 | Lab Sample ID: 140-925-4

Matrix: Air | Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 | Lab Sample ID: 140-925-4

Matrix: Air | Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 | Lab Sample ID: 140-925-4

Matrix: Air | Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D				
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4		
Client ID:	10542				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 04:49:30	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10542				
Misc. Info.:	J022114,TO15,,140-0000456-016				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:41:42	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:41:42		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.406	0.001	90	394384	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.563	-0.005	94	1771461	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	92	1549526	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.838	0.0	85	1193025	3.86	
48 Benzene	78	11.036	11.046	-0.010	64	10055	0.0272	

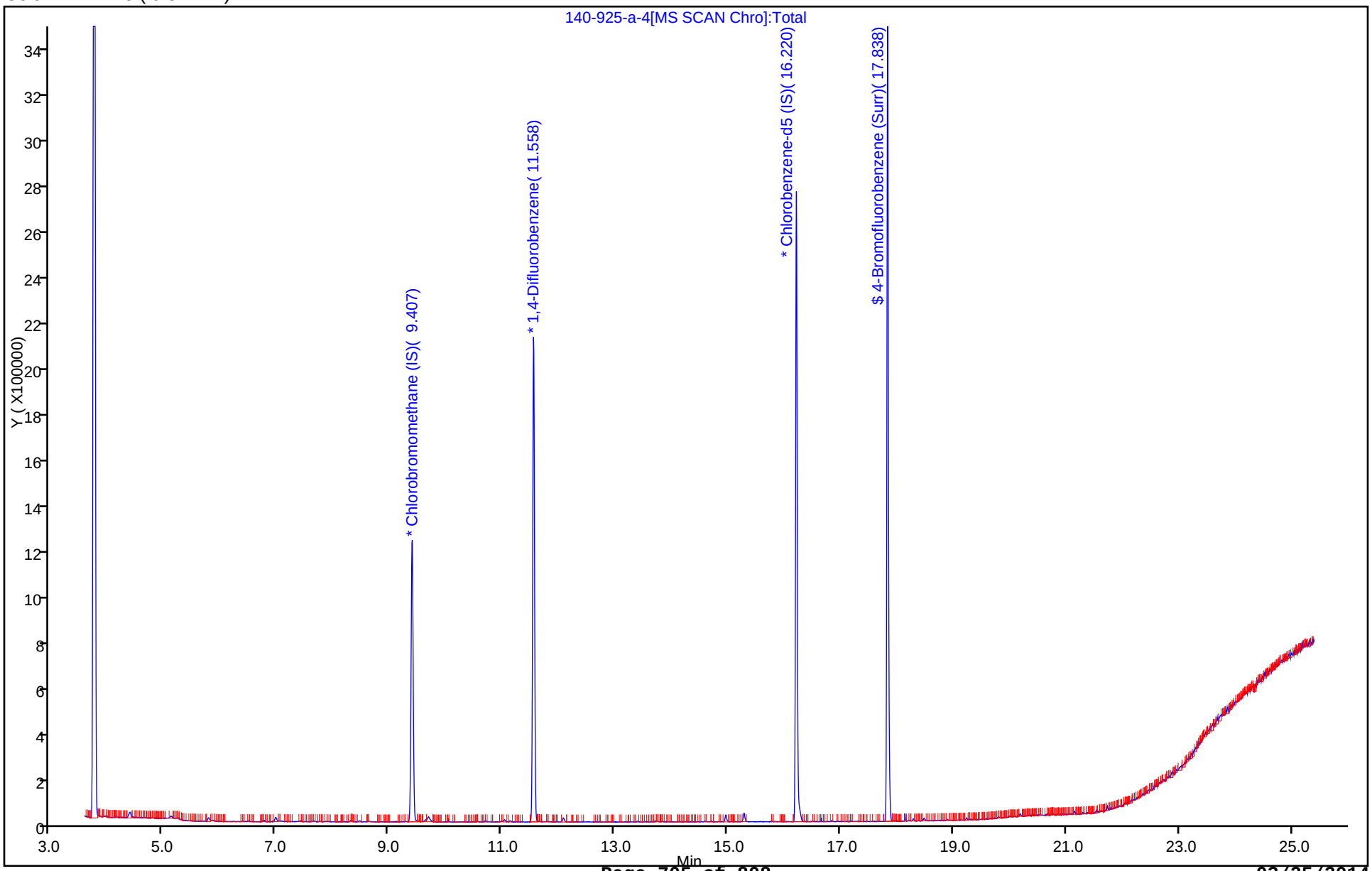
Report Date: 23-Feb-2014 13:41:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D

Injection Date:	22-Feb-2014 04:49:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4	Worklist Smp#:	16
Client ID:	10542				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 Lab Sample ID: 140-925-5

Matrix: Air Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D				
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5		
Client ID:	10129				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 05:47:30	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10129				
Misc. Info.:	J022114,TO15,,140-0000456-017				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:06	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.405	9.406	-0.001	90	397178	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.563	-0.007	94	1754424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.218	16.219	-0.001	92	1457502	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1122664	3.86	
33 Carbon disulfide	76	6.953	6.954	-0.001	83	15054	0.0350	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.391	0.010	86	15750	0.0529	

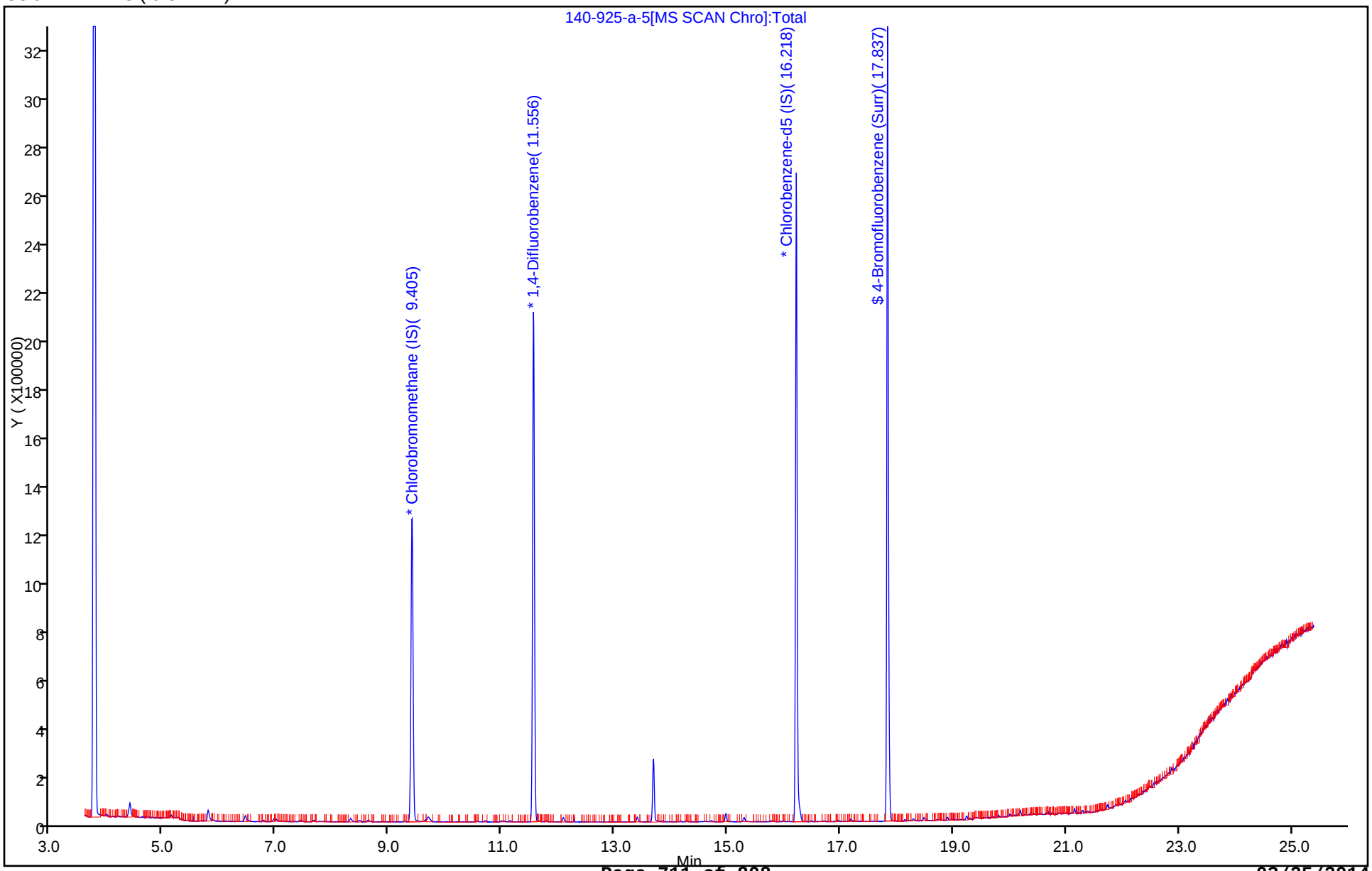
Report Date: 23-Feb-2014 13:42:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D

Injection Date:	22-Feb-2014 05:47:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5	Worklist Smp#:	17
Client ID:	10129				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 Lab Sample ID: 140-925-6

Matrix: Air Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D
Lims ID: 140-925-A-6 Lab Sample ID: 140-925-6
Client ID: 09523
Sample Type: Client
Inject. Date: 22-Feb-2014 06:44:30 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09523
Misc. Info.: J022114,TO15,,140-0000456-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 23-Feb-2014 13:42:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: barlozhetskayaa Date: 23-Feb-2014 13:42:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	390393	4.00	
* 2 1,4-Difluorobenzene	114	11.557	11.563	-0.006	94	1697205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	92	1375423	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1032684	3.76	
46 1,2-Dichloroethane	62	10.556	10.562	-0.006	75	13973	0.0713	
47 n-Butanol	31	10.981	10.960	0.021	65	2774	0.0451	
62 4-Methyl-2-pentanone (MIBK)	43	13.396	13.391	0.005	82	16426	0.0570	

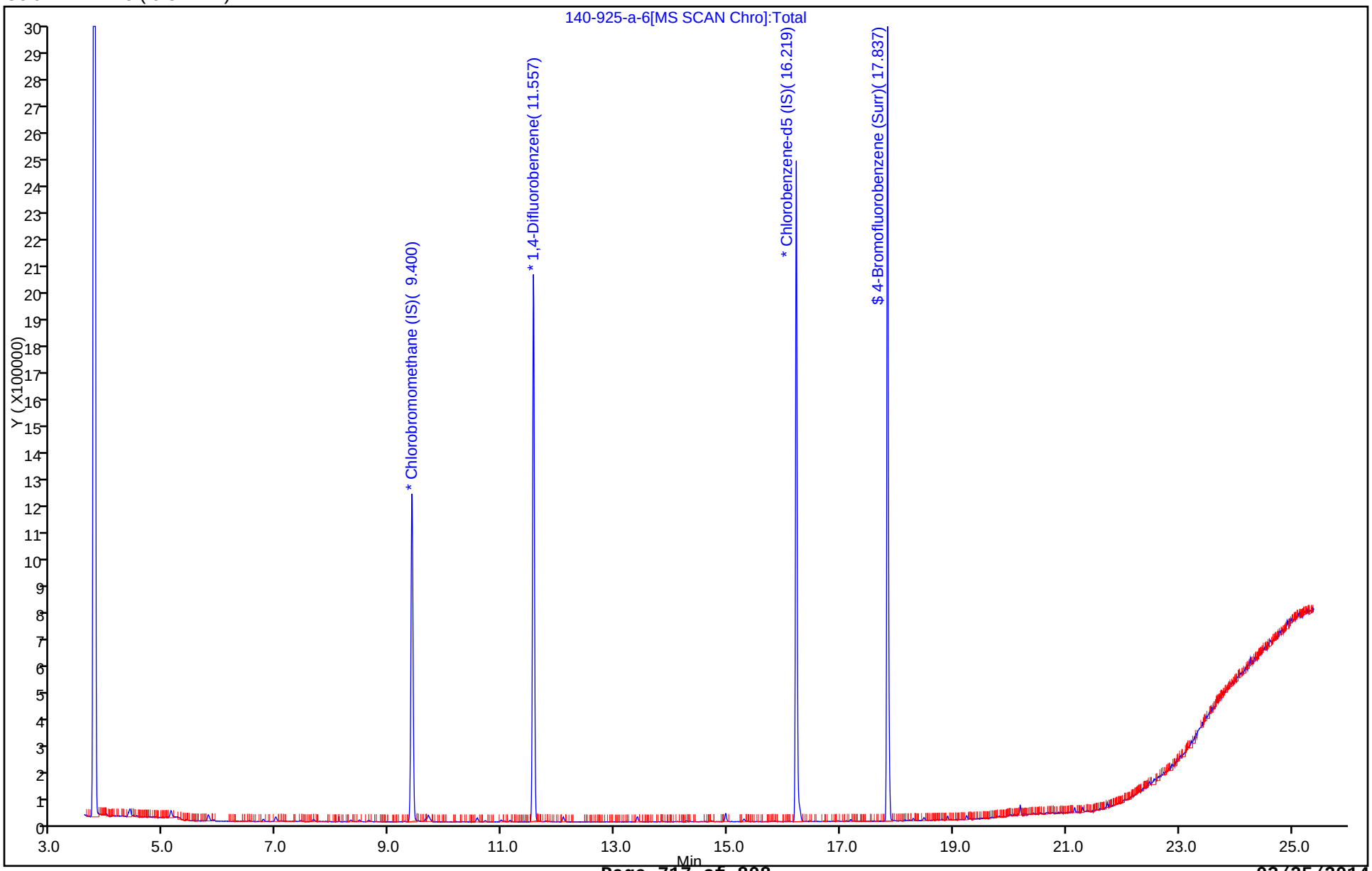
Report Date: 23-Feb-2014 13:42:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D

Injection Date:	22-Feb-2014 06:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-6	Lab Sample ID:	140-925-6	Worklist Smp#:	18
Client ID:	09523				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 | Lab Sample ID: 140-925-7

Matrix: Air | Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D				
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7		
Client ID:	11047				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 07:41:30	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11047				
Misc. Info.:	J022114,TO15,,140-0000456-019				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.404	9.406	-0.002	90	385860	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.563	-0.003	94	1670343	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.217	16.219	-0.002	92	1364203	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.838	-0.003	86	1052795	3.87	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.391	0.008	82	17122	0.0604	
65 Toluene	91	14.270	14.273	-0.003	81	21345	0.0651	

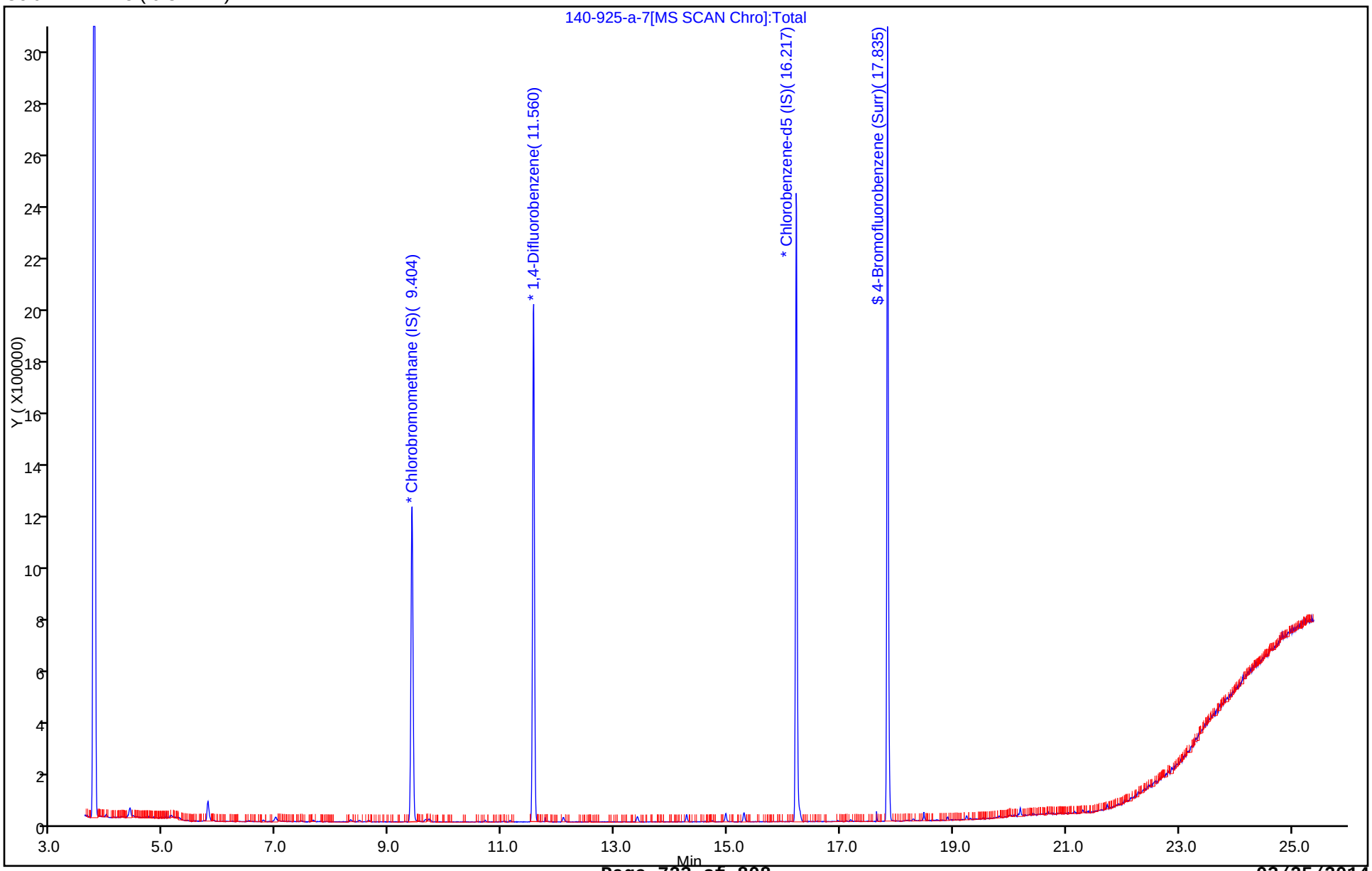
Report Date: 23-Feb-2014 13:42:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D

Injection Date:	22-Feb-2014 07:41:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7	Worklist Smp#:	19
Client ID:	11047				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D				
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9		
Client ID:	11044				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 16:31:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11044				
Misc. Info.:	E022414,TO155,,140-0000468-011				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:44:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:44:08		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	259377	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1288482	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	91	1122866	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	963749	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	5912	0.0387	

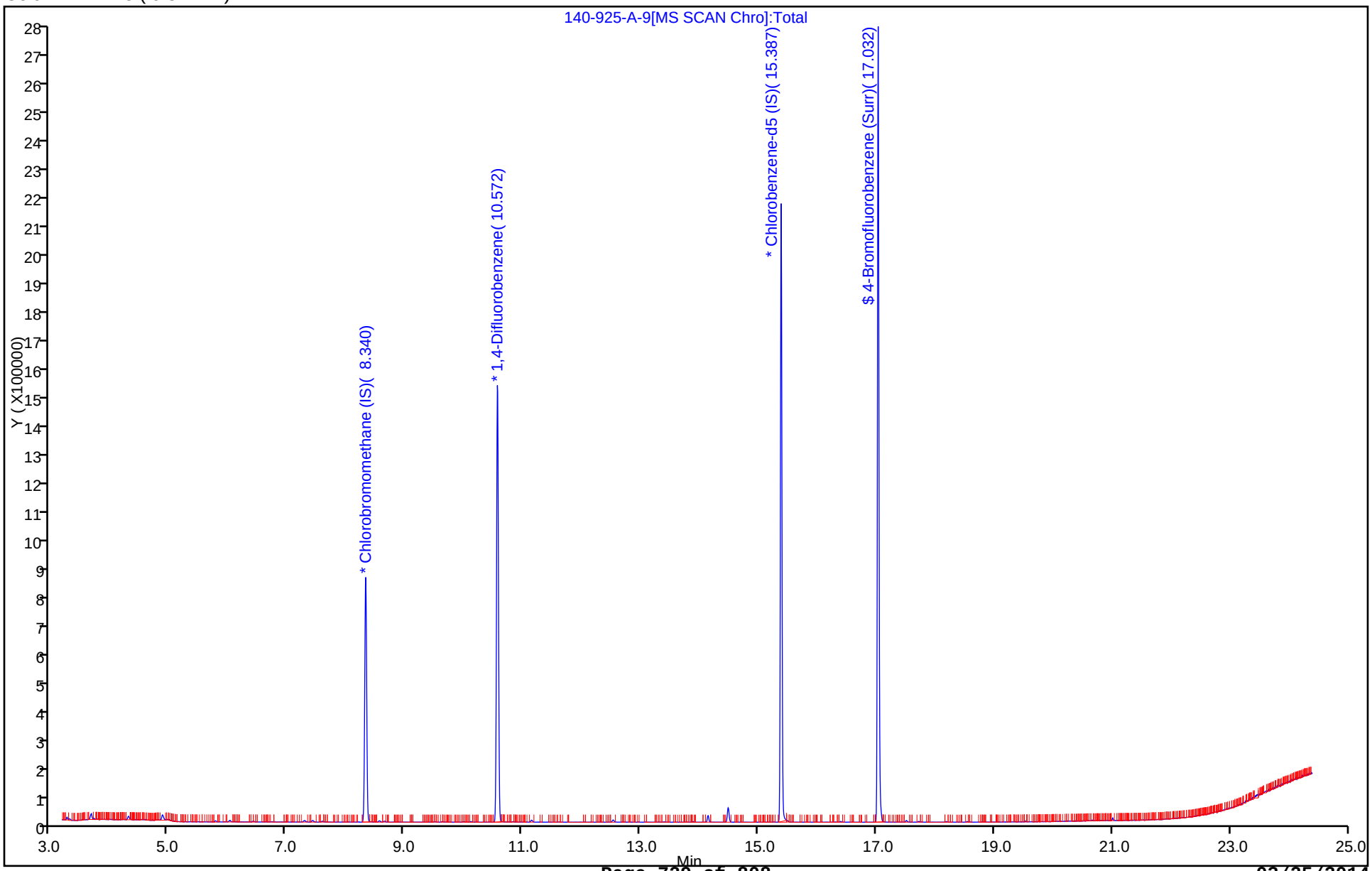
Report Date: 25-Feb-2014 08:44:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D

Injection Date:	24-Feb-2014 16:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9	Worklist Smp#:	11
Client ID:	11044				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 Lab Sample ID: 140-925-11

Matrix: Air Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D				
Lims ID:	140-925-A-11	Lab Sample ID:	140-925-11		
Client ID:	11040				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 18:02:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11040				
Misc. Info.:	E022414,TO155,,140-0000468-013				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:46:43	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:46:43		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	258218	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1302196	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1151791	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1004151	3.98	
7 Propene	41	3.314	3.314	0.0	89	3530	0.0543	
33 Carbon disulfide	76	5.945	5.951	-0.006	88	10822	0.0405	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	80	6774	0.0439	

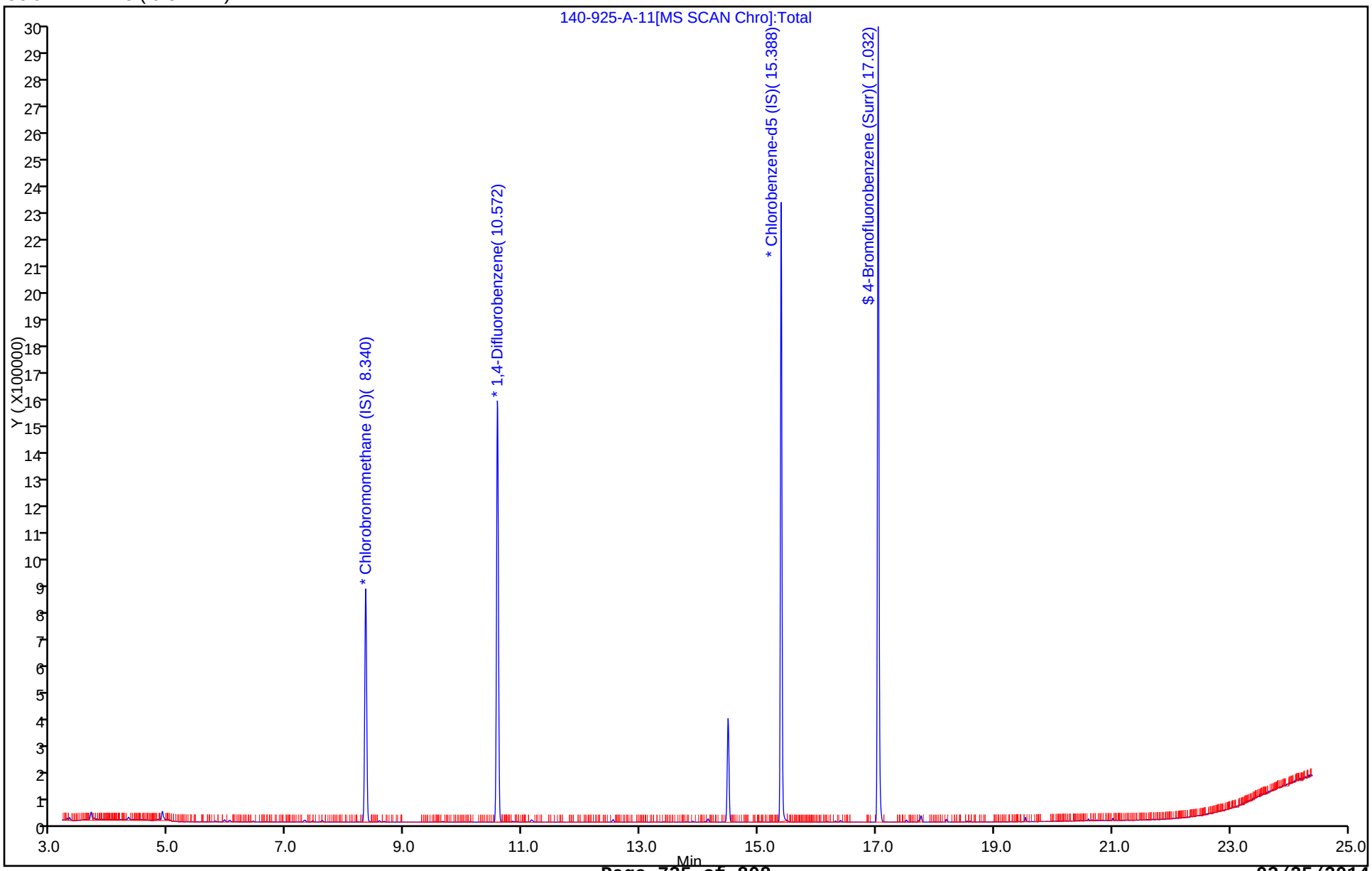
Report Date: 25-Feb-2014 08:46:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D

Injection Date:	24-Feb-2014 18:02:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-11	Lab Sample ID:	140-925-11	Worklist Smp#:	13
Client ID:	11040				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D				
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1		
Client ID:	10812				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 11:40:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10812				
Misc. Info.:	E022514,TO155,,140-0000471-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 12:26:07	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 12:26:07		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	82	306294	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1507231	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	1337629	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1122589	3.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	92	18454	0.1033	

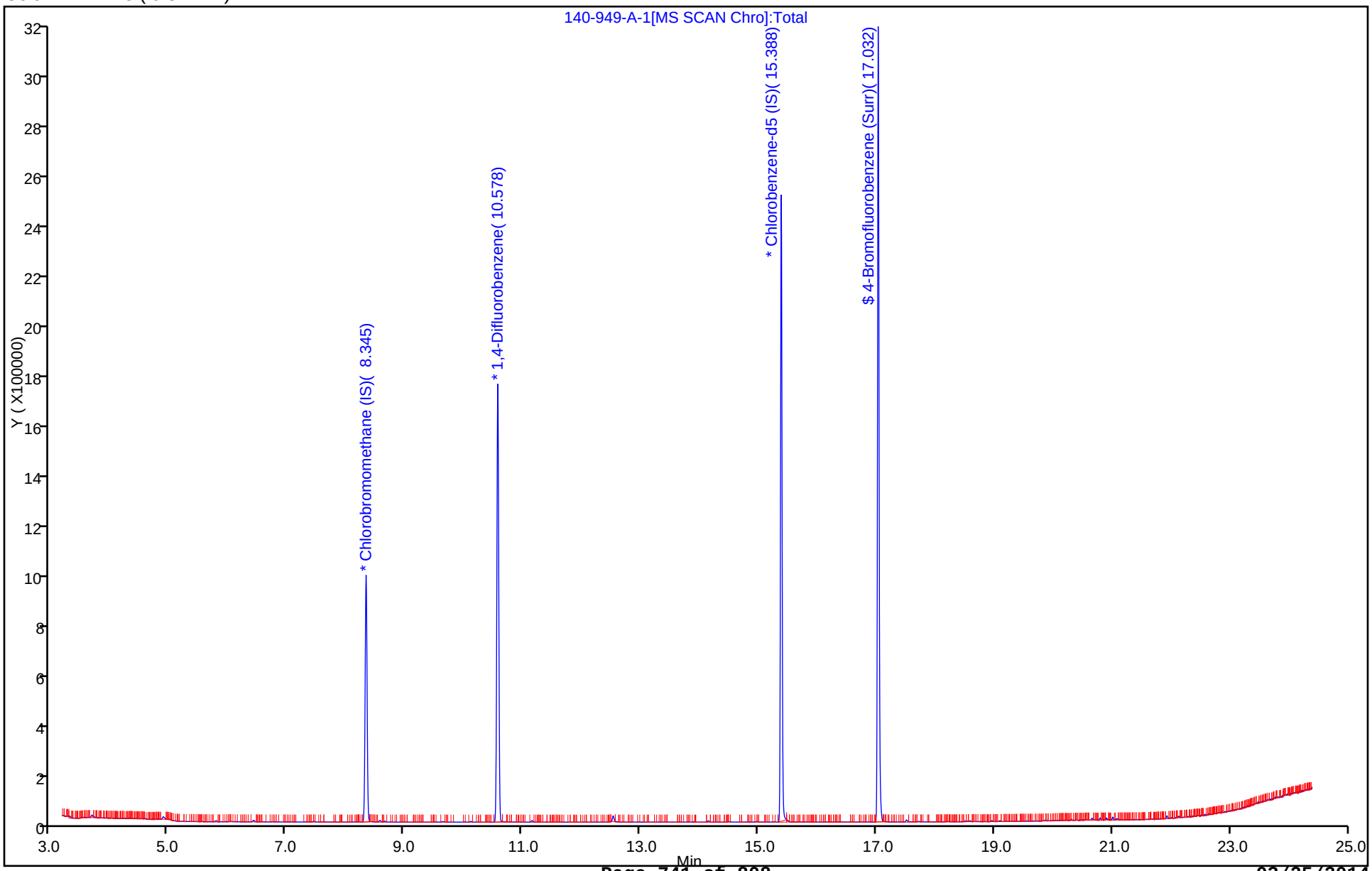
Report Date: 25-Feb-2014 12:26:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D

Injection Date:	25-Feb-2014 11:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1	Worklist Smp#:	4
Client ID:	10812				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 Lab Sample ID: 140-949-2

Matrix: Air Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D				
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2		
Client ID:	10313				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 12:26:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10313				
Misc. Info.:	E022514,TO155,,140-0000471-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 13:03:34	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 13:03:34		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	294774	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1499739	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1288944	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1101247	3.90	

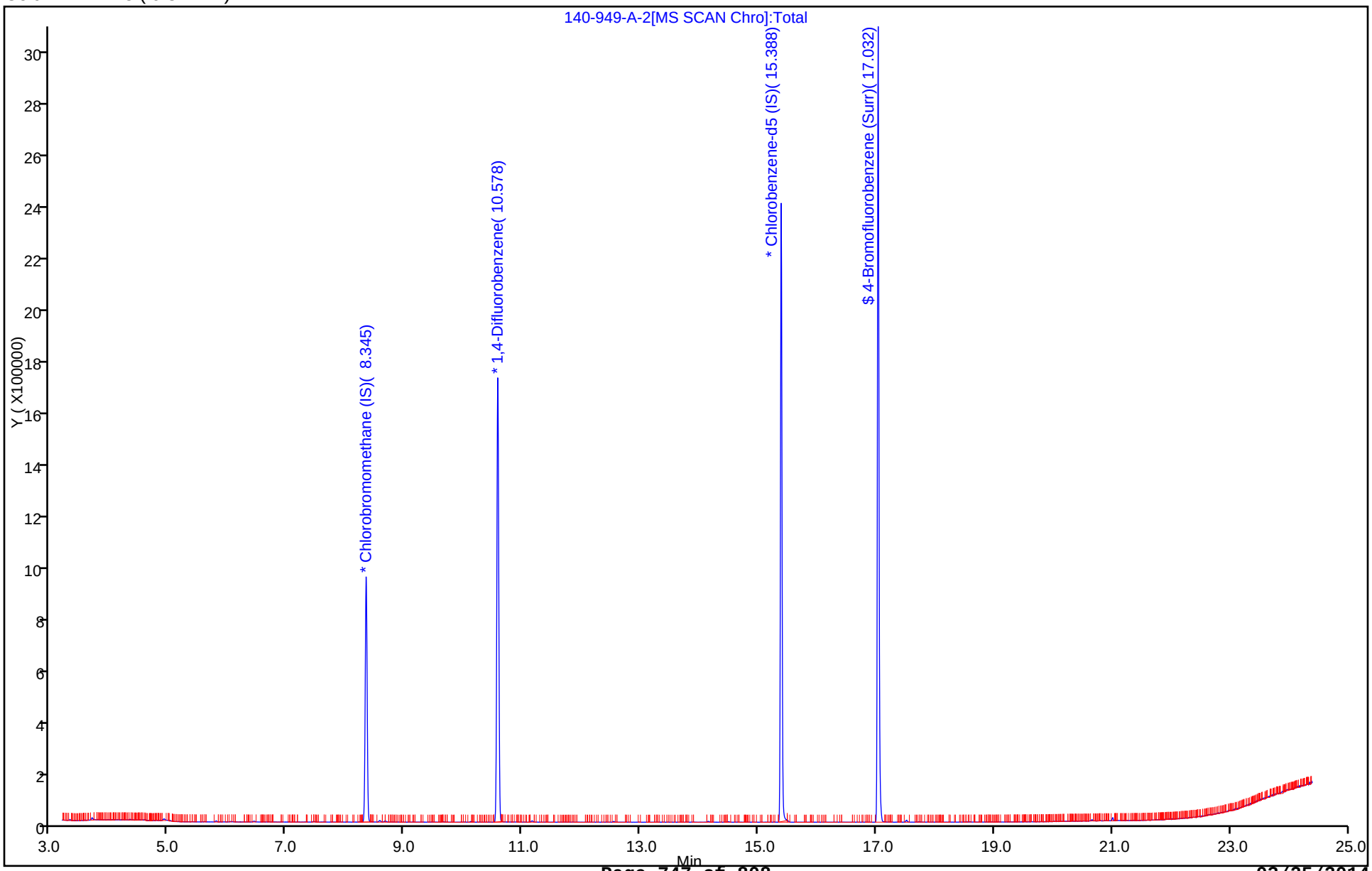
Report Date: 25-Feb-2014 13:03:34 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D

Injection Date:	25-Feb-2014 12:26:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2	Worklist Smp#:	5
Client ID:	10313				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 Lab Sample ID: 140-949-4

Matrix: Air Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D				
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4		
Client ID:	11039				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 13:56:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11039				
Misc. Info.:	E022514,TO155,,140-0000471-007				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 07:27:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 07:27:53		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	264346	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1342143	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	95	1158094	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	984708	3.88	

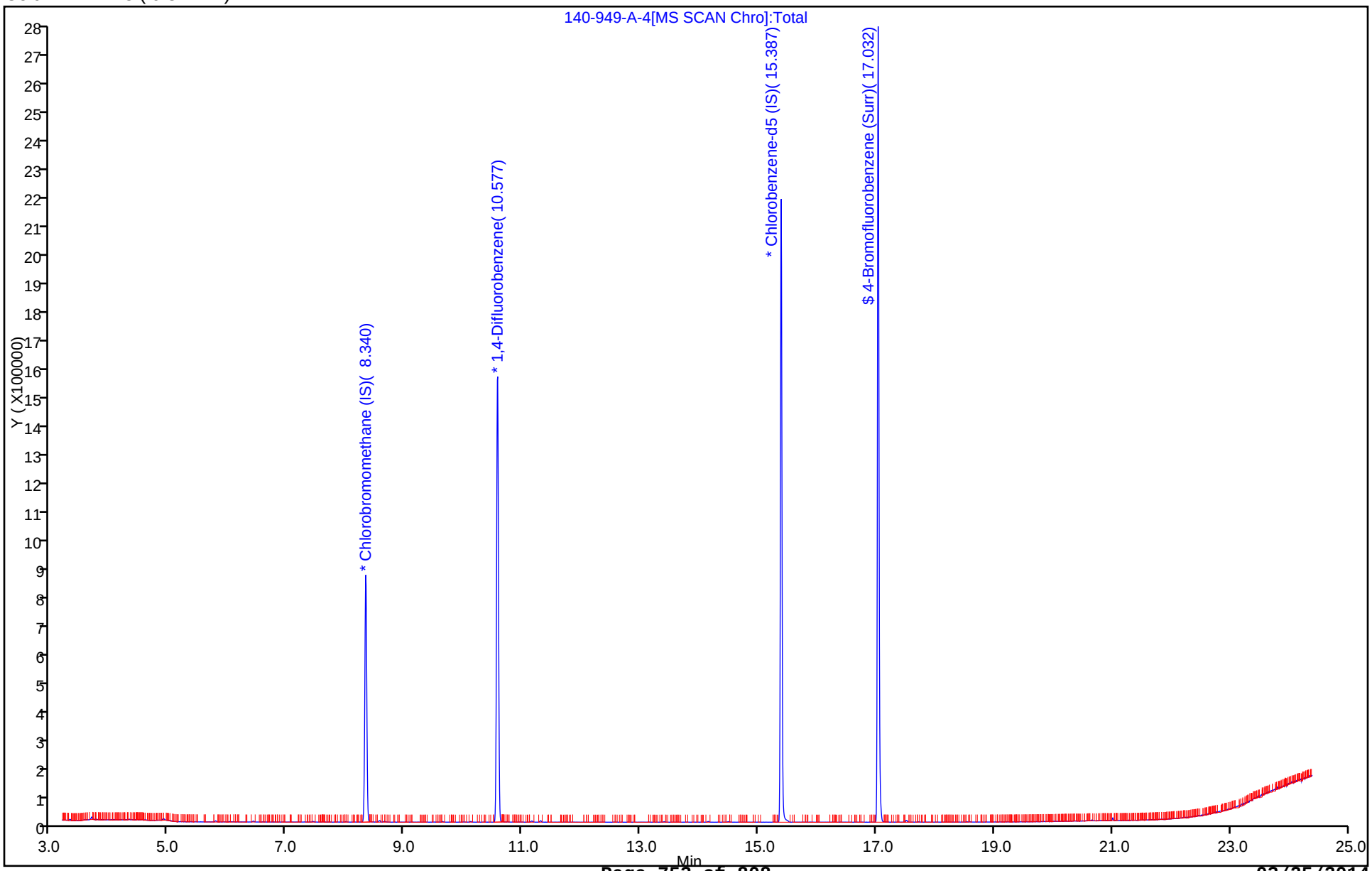
Report Date: 26-Feb-2014 07:27:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D

Injection Date:	25-Feb-2014 13:56:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4	Worklist Smp#:	7
Client ID:	11039				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 | Lab Sample ID: 140-949-8

Matrix: Air | Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 | Lab Sample ID: 140-949-8

Matrix: Air | Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D				
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8		
Client ID:	10422				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 18:06:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10422				
Misc. Info.:	E022514,TO155,,140-0000471-011				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:14:17	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:14:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	255164	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1319915	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1149179	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	1013272	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	89	18325	0.1171	

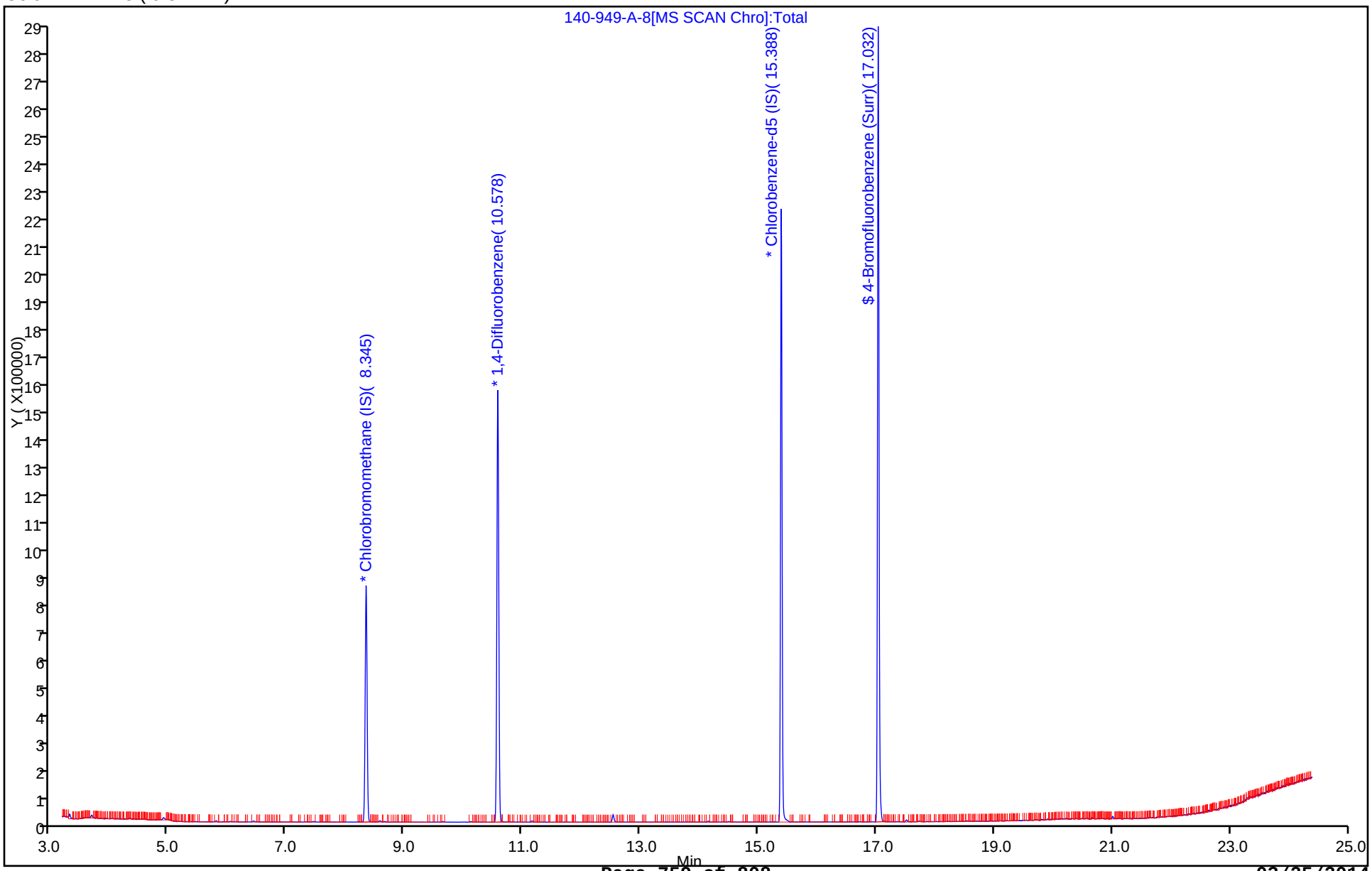
Report Date: 26-Feb-2014 08:14:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D

Injection Date:	25-Feb-2014 18:06:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8	Worklist Smp#:	11
Client ID:	10422				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 Lab Sample ID: 140-949-10

Matrix: Air Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 Lab Sample ID: 140-949-10

Matrix: Air Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D
Lims ID: 140-949-A-10 Lab Sample ID: 140-949-10
Client ID: 10001
Sample Type: Client
Inject. Date: 25-Feb-2014 19:37:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10001
Misc. Info.: E022514,TO155,,140-0000471-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:16:06 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	247450	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1268499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1117715	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	993164	4.06	

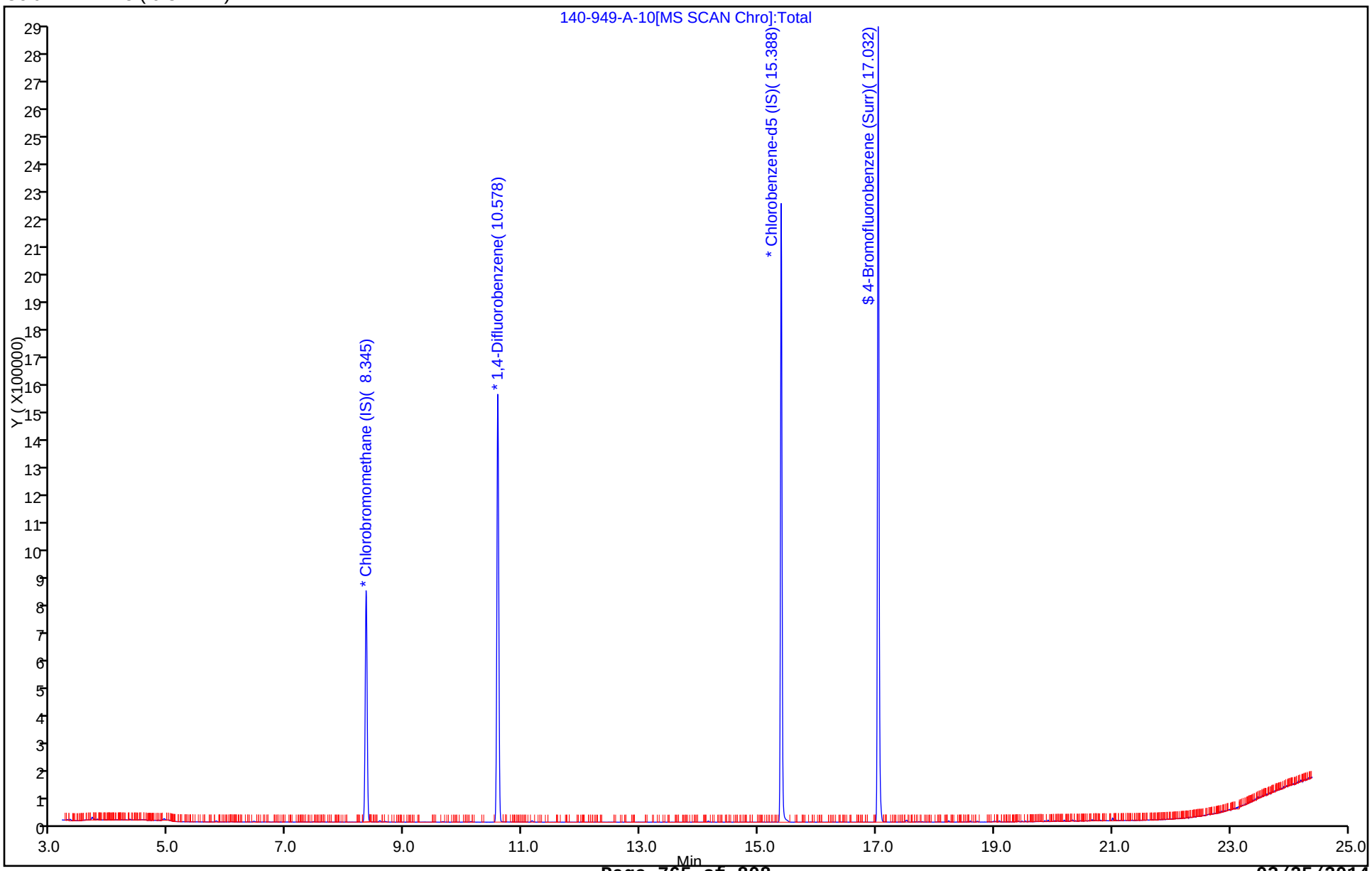
Report Date: 26-Feb-2014 08:16:08 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D

Injection Date:	25-Feb-2014 19:37:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-10	Lab Sample ID:	140-949-10	Worklist Smp#:	13
Client ID:	10001				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	0.22		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 Lab Sample ID: 140-949-11

Matrix: Air Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D				
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11		
Client ID:	10130				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 20:23:30	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10130				
Misc. Info.:	E022514,TO155,,140-0000471-014				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:16:25	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:16:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	245700	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1254222	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1098538	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	966120	4.02	
59 1,4-Dioxane	88	11.586	11.564	0.022	84	7320	0.2185	

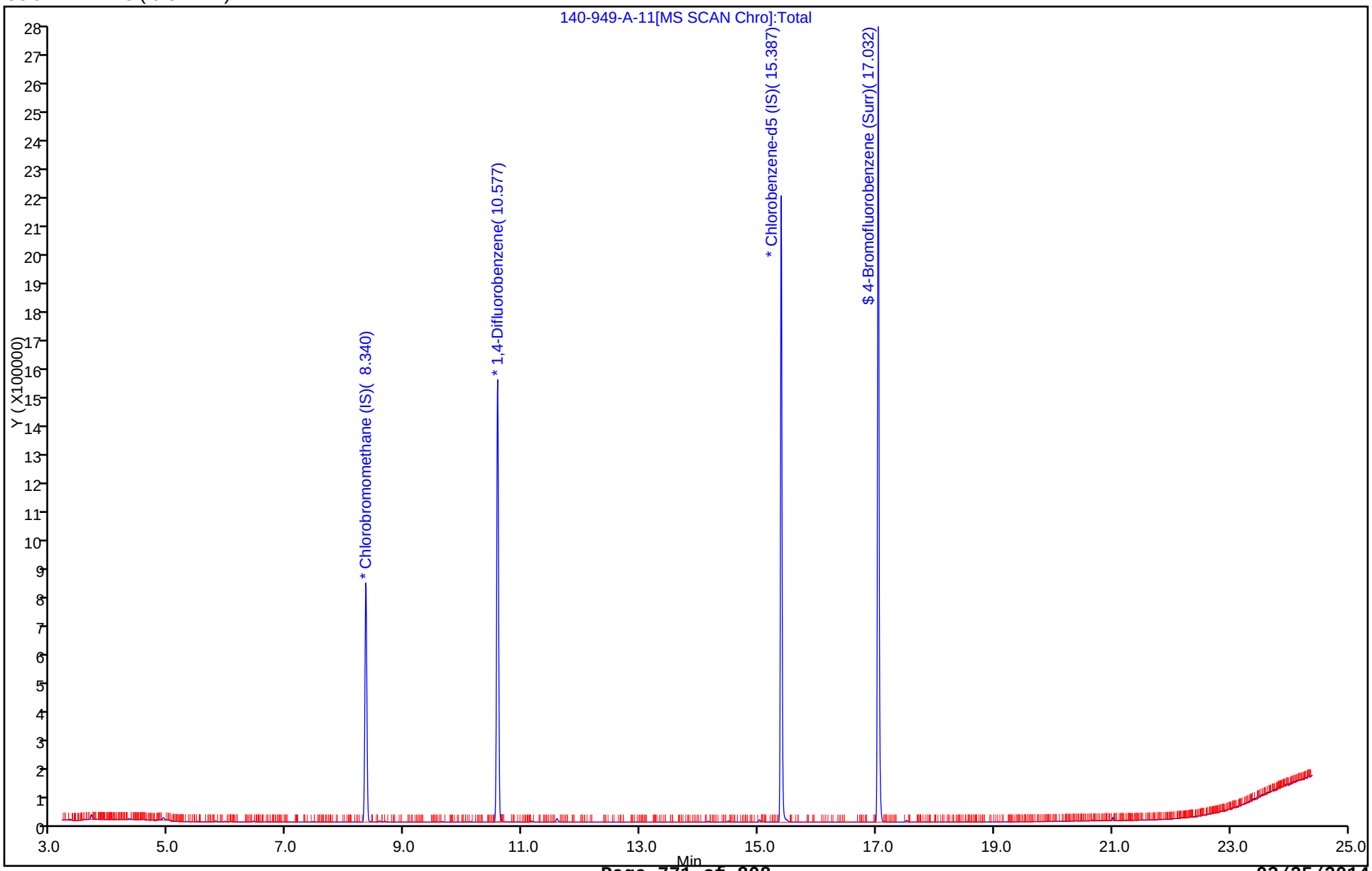
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11	Worklist Smp#:	14
Client ID:	10130				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



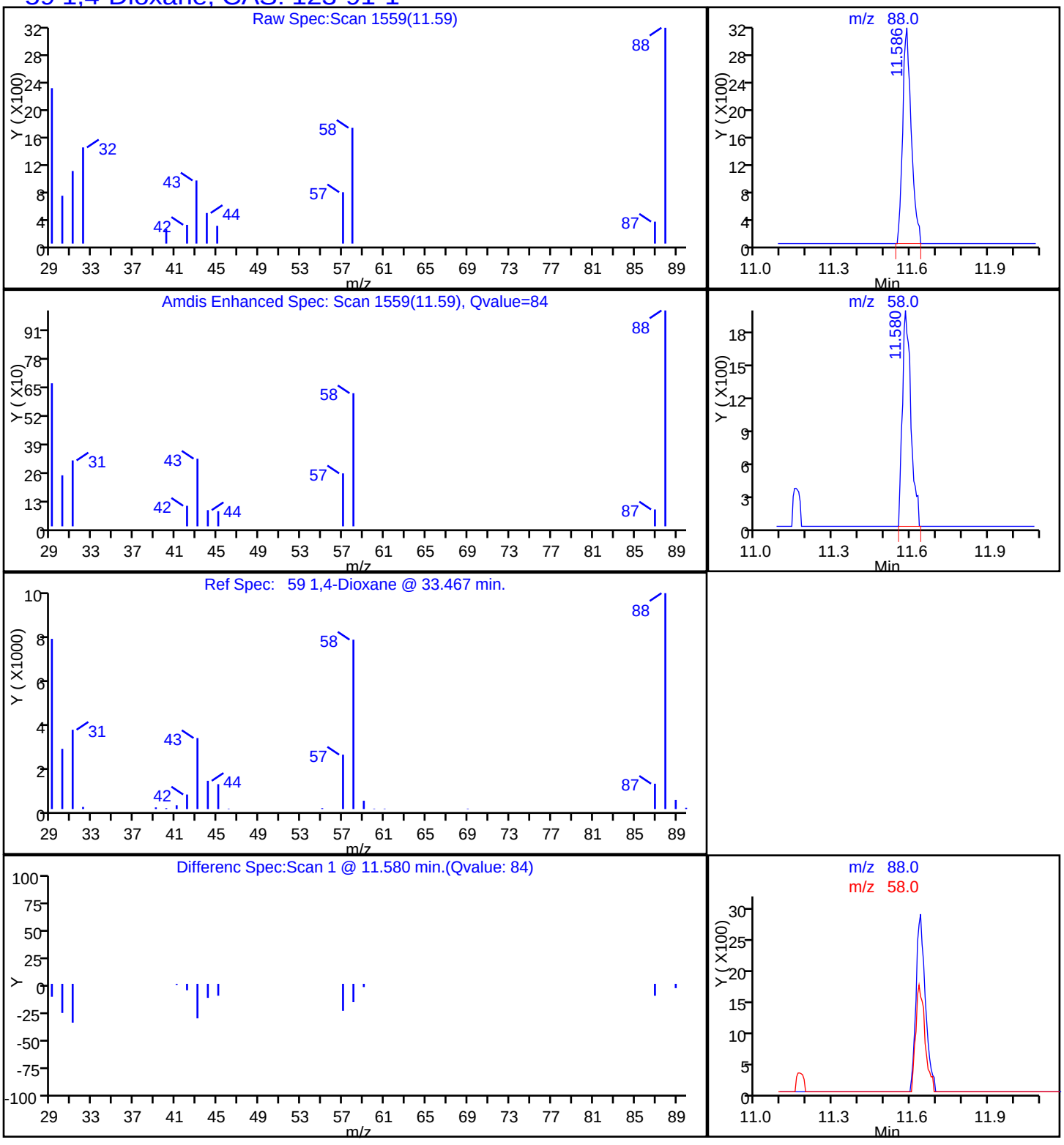
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME		
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11		
Client ID:	10130				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

59 1,4-Dioxane, CAS: 123-91-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 Lab Sample ID: 140-949-12

Matrix: Air Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 Lab Sample ID: 140-949-12

Matrix: Air Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D
Lims ID: 140-949-A-12 Lab Sample ID: 140-949-12
Client ID: 10711
Sample Type: Client
Inject. Date: 25-Feb-2014 21:09:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10711
Misc. Info.: E022514,TO155,,140-0000471-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:16:51 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	239168	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1193974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	94	1063904	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940008	4.03	
33 Carbon disulfide	76	5.951	5.946	0.005	97	14820	0.0599	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	93	21418	0.1514	

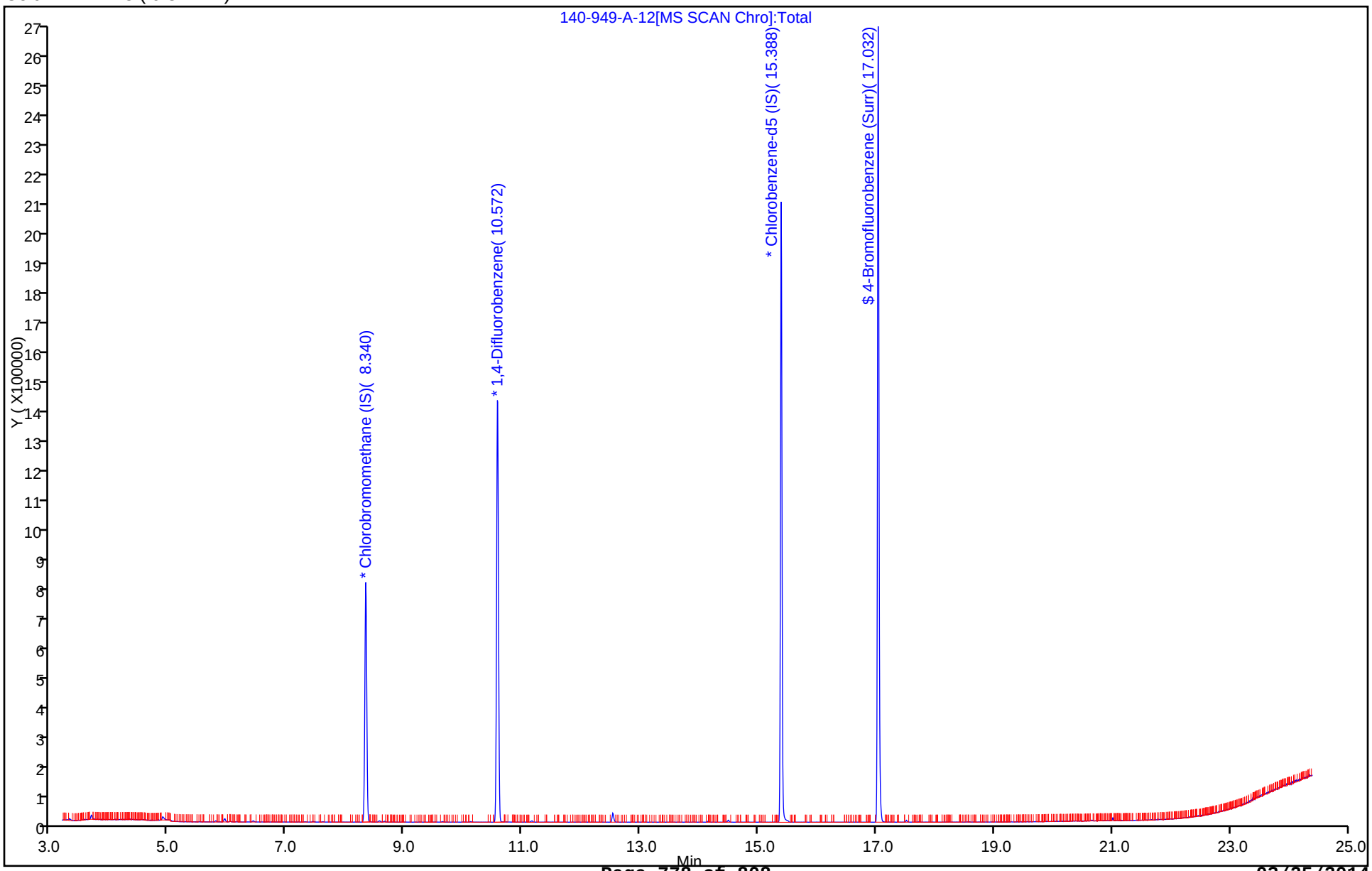
Report Date: 26-Feb-2014 08:16:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D

Injection Date:	25-Feb-2014 21:09:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-12	Lab Sample ID:	140-949-12	Worklist Smp#:	15
Client ID:	10711				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 Lab Sample ID: 140-949-13

Matrix: Air Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D
Lims ID: 140-949-A-13 Lab Sample ID: 140-949-13
Client ID: 10536
Sample Type: Client
Inject. Date: 25-Feb-2014 21:54:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10536
Misc. Info.: E022514,TO155,,140-0000471-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:17:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	223080	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1117429	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	93	1027674	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	920341	4.09	
9 Chloromethane	52	3.540	3.530	0.010	73	1932	0.0981	

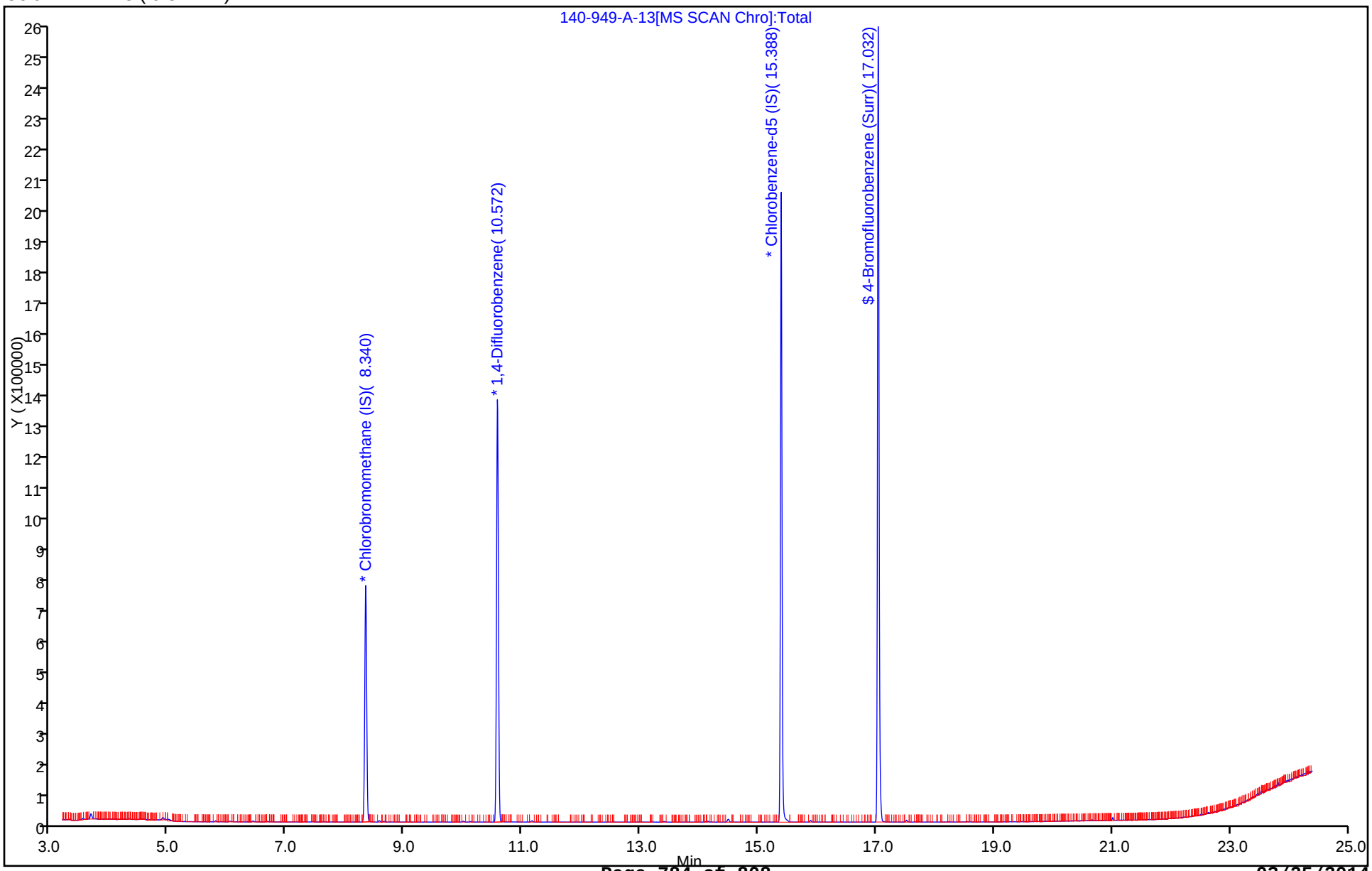
Report Date: 26-Feb-2014 08:17:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D

Injection Date:	25-Feb-2014 21:54:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-13	Lab Sample ID:	140-949-13	Worklist Smp#:	16
Client ID:	10536				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D				
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14		
Client ID:	10729				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 22:40:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10729				
Misc. Info.:	E022514,TO155,,140-0000471-017				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:17:32	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:17:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	238652	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1191848	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1067633	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949012	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	75	4783	0.0339	

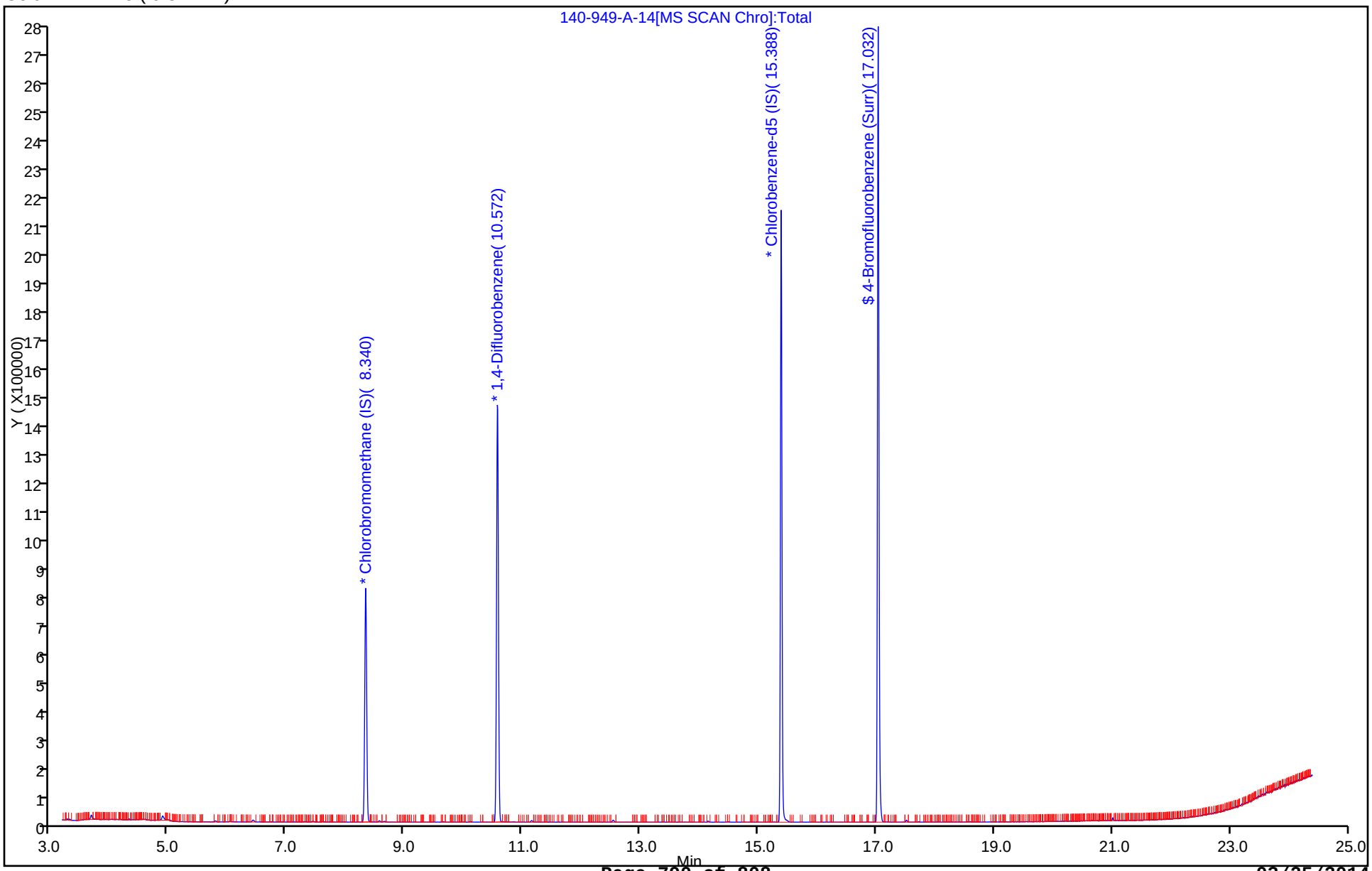
Report Date: 26-Feb-2014 08:19:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D

Injection Date:	25-Feb-2014 22:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14	Worklist Smp#:	17
Client ID:	10729				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 Lab Sample ID: 140-962-2

Matrix: Air Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 891 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 26-Feb-2014 17:17:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-2.D
Lims ID: 140-962-A-2 Lab Sample ID: 140-962-2
Client ID: 34000495
Sample Type: Client
Inject. Date: 26-Feb-2014 13:31:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 34000495
Misc. Info.: J021914,TO15,,140-0000477-006
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140225-477.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 14:48:53 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: barlozhetskayaa Date: 26-Feb-2014 17:17:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.401	9.405	-0.004	92	203049	4.00	
* 2 1,4-Difluorobenzene	114	11.553	11.556	-0.003	95	973744	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.217	16.220	-0.003	94	817796	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.836	17.834	0.002	82	646856	3.96	
7 Propene	41	3.978	3.977	0.001	79	4063	0.0374	
13 Butane	43	4.522	4.520	0.002	85	16837	0.1456	
19 2-Methylbutane	43	5.415	5.418	-0.003	69	3317	0.0347	
31 Methylene Chloride	84	6.765	6.769	-0.004	72	6805	0.1105	
40 Hexane	56	8.653	8.657	-0.004	62	2035	0.0267	
62 4-Methyl-2-pentanone (MIBK)	43	13.398	13.391	0.007	86	12152	0.0735	

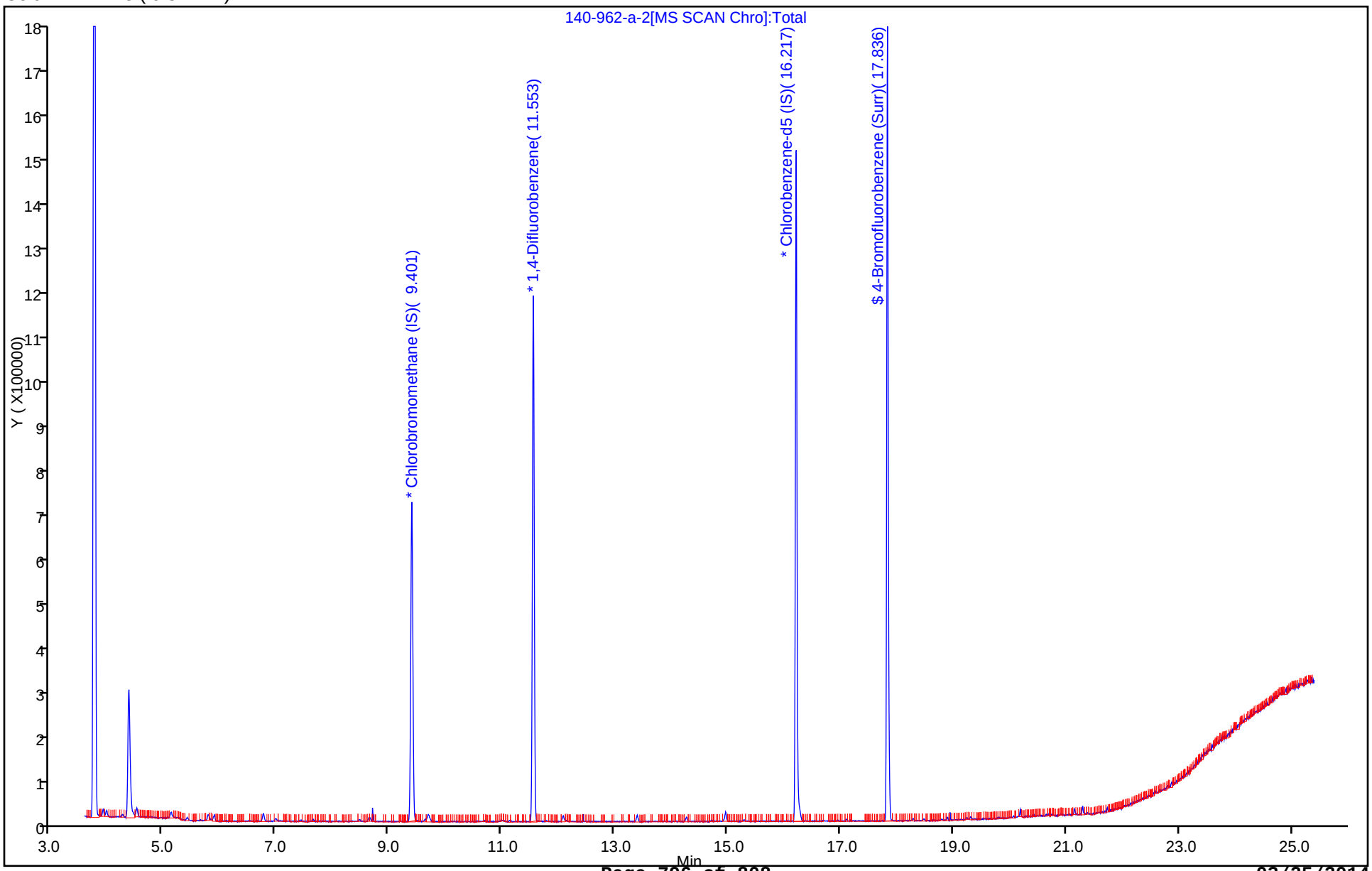
Report Date: 26-Feb-2014 17:17:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-2.D

Injection Date:	26-Feb-2014 13:31:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-962-A-2	Lab Sample ID:	140-962-2	Worklist Smp#:	6
Client ID:	34000495				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 Lab Sample ID: 140-962-5

Matrix: Air Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 891 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 27-Feb-2014 06:54:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-5.D
Lims ID: 140-962-A-5 Lab Sample ID: 140-962-5
Client ID: 10806
Sample Type: Client
Inject. Date: 26-Feb-2014 17:27:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10806
Misc. Info.: J021914,TO15,,140-0000477-009
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140225-477.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 27-Feb-2014 06:54:32 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: tajh Date: 27-Feb-2014 06:54:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.394	9.405	-0.011	92	203362	4.00	
*	2 1,4-Difluorobenzene	114	11.552	11.556	-0.004	95	920989	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.216	16.220	-0.004	94	693395	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.835	17.834	0.001	82	541219	3.91	
	7 Propene	41	3.977	3.977	0.0	91	4987	0.0459	
	13 Butane	43	4.515	4.520	-0.005	78	7611	0.0657	
	19 2-Methylbutane	43	5.408	5.418	-0.010	66	1845	0.0193	
	31 Methylene Chloride	84	6.758	6.769	-0.011	65	3156	0.0512	
	40 Hexane	56	8.647	8.657	-0.010	56	1127	0.0147	

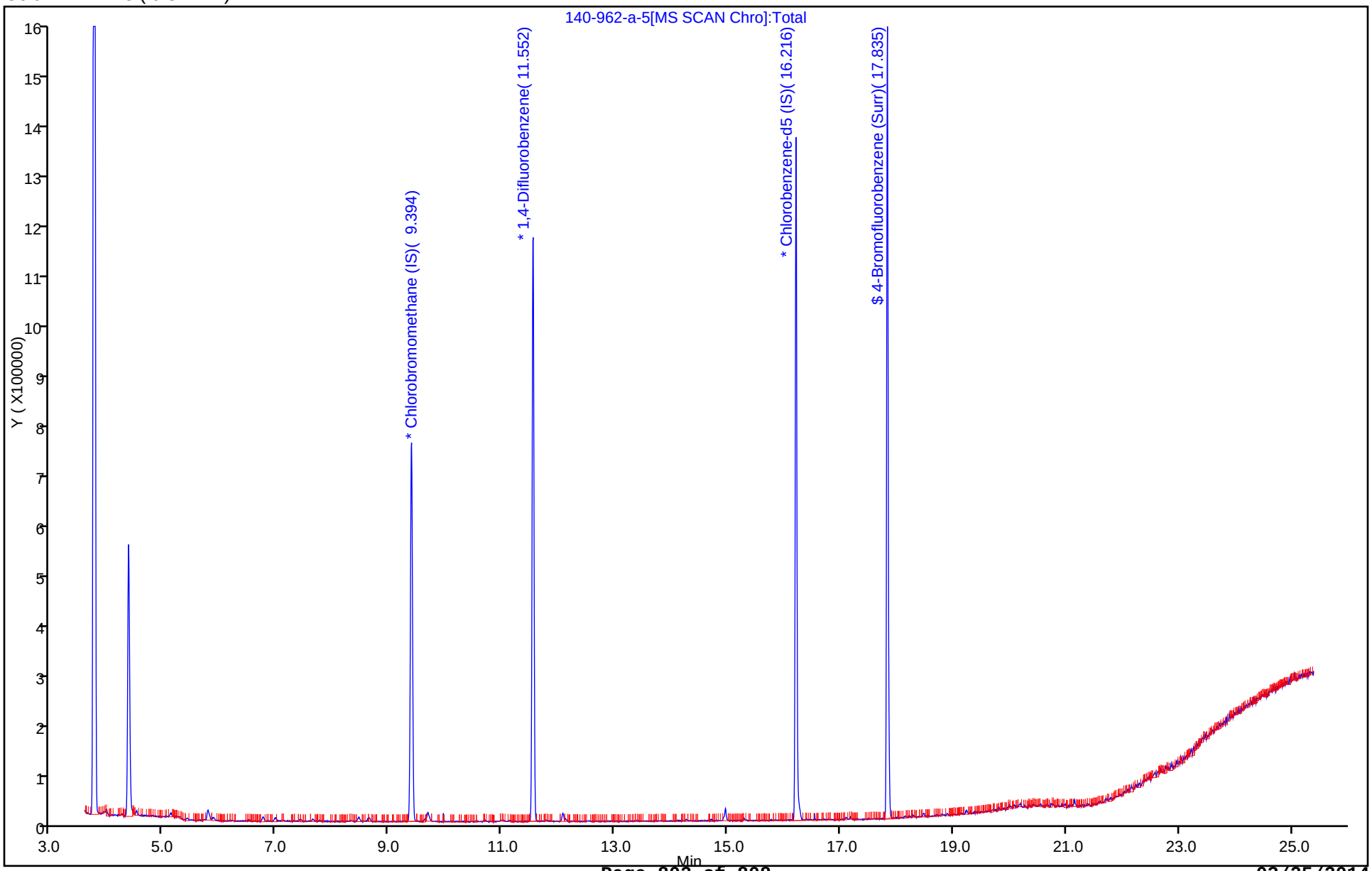
Report Date: 27-Feb-2014 06:54:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-5.D

Injection Date:	26-Feb-2014 17:27:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-962-A-5	Lab Sample ID:	140-962-5	Worklist Smp#:	9
Client ID:	10806				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Sara Meissner	COC No:
Company Name: AECOM	Phone: 516-581-7313		1 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004	Site Contact: Jessica Fehlen		For Lab Use Only:
Phone: 212-377-8400	TA Contact: Janie McKinney		Walk-in Client:
FAX: 212-377-8410	Anaylsis Turnaround Time		Lab Sampling:
Project Name: Peter Cooper Village IA	Standard (Specific): X		Job / SDG No.:
Site/Location: Peter Cooper Village, NYC	Rush (Specifiy):		(See below for Add'l Items)
P O #			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med+Std+Low+SIM) + Cond List M6PL1ST	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type Comps: 12	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B10	3/10/14	0827	1615	-28	-4	K503	09597	X								X	X					62°F
PCV-1A2-B10	3/10/14	0836	1400	-30	-5	K101	10178	X								X	X					62°F
PCV-1A3-B10	3/10/14	0840	1615	-30	-4	K354	11040	X								X	X					65°F
PCV-1ALC-B10	3/10/14	0846	1630	-30	-5	K455	09595	X								X	X					67°F
PCV-AMB-2	3/10/14	0852	1530	-30	-4	K441	09613	X								X		X				45°F

140-1037 Chain of Custody

S. Meissner

Temperature (Fahrenheit)			
Start	Interior	Ambient	Ambient
Stop	—	Std @ 40°F	Stop 52°F

3 Boxes NO Custody SEALS
RECEIVED @ AMBIENT Temp
R.H 3/12/14

S. Meissner

~~Temperature (Fahrenheit)~~			Pressure (Hg)
Start	Interior	Ambient	29.86
Stop	—	~~Ambient~~	29.71

3 Boxes MSTR# 798177027991 SD
13 CANS, 13 FLOWS

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: Rita Hamlock 3/12/14 08:45
Samples Relinquished by:	Date / Time: 3/10/14 1647	Received by:
Relinquished by:	Date / Time: 3/10/14 18:00	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

140207.8

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
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TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Kristen Barbour	COC No:
Company Name: AECOM	Phone: 516-581-7313		2 of 3 COCs
Address: 125 Broad St	Email:		
City/State/Zip: NY, NY 10004			For Lab Use Only:
Phone: 212 377 8106	Site Contact: Jessica Ehen		Walk-in Client:
FAX: 212 377 8710	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: PeterCooper Village IA	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: PeterCooper Village NYC	Standard (Specific): Standard		(See below for Add'l Items)
P O #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) + Cert Eq list	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA2-B16	3/10/14	9:11	16:30	-30	-6	10853	10806	X								X	X					temp 71°F FC# 10853
PCV-IA1-B16	3/10/14	9:19	16:42	-30	-5.5	10630	10369	X								X	X					temp 72°F FC# (10630 not used)
PCV-IA3-B16	3/10/14	9:16	16:35	-30	-6.5	10358	10536	X								X	X					temp 72°F
PCV-IA2-B18	3/10/14	9:37	17:08	-30	-6	10647	11044	X								X	X					temp 71°F
PCV-IA3-B18	3/10/14	9:41	17:12	-27	-4	10645	10721	X								X	X					temp 63°F
PCV-IA1-B18	3/10/14	9:42	17:18	-30	-5.5	09715	10129	X								X	X					temp 65°F
PCV-IATC-B18	3/10/14	9:44	17:15	-30	-5	10163	09523	X								X	X					flow control #10361 not used for sample, temp 65°

	Temperature (Fahrenheit)			
Kristen Barbour	Start	Interior	Ambient 40°F	52°F
	Stop			

Note: FC #10845 not used on IA2-B16
FC # 10630 not used on IA1-B16

	~~Temperature (Fahrenheit)~~ Pressure (inches of Hg)			
Kristen Barbour	Start	Interior	Ambient	29.86
	Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: Rita Hancock 3/12/14 08:45
Samples Relinquished by: Kristen Barbour	Date / Time: 3/10/14 17:36	Received by:
Relinquished by:	Date / Time: 3/11/14 18:10	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
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TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No:
Company Name: AECOM	Phone: 516-581-7313		3 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8706	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212-377-8401	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village 1A	Anaylsis Turnaround Time		
Site/Location: Peter Cooper Village, NY	Standard (Specific): X		Job / SDG No.:
P O #	Rush (Specifiy):		(See below for Add'l Items)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) Compost Project	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type - Composite	Indoor Air	Ambient Air (out-side)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A3-B21	3-10-14	9:10	16:15	-30	-5	10063	10857	X								X	X	[illegible]	JC			Temp = 75°F
PCV-1A2-B19	3-10-14	8:54	16:28	-30	-5	10623	10422	X								X	X					Temp = 68°F
PCV-1A1-B21	3-10-14	9:13	17:15	-30	-5	09862	10515	X								X	X					Temp = 68°F 75°F
PCV-1A1-B19	3-10-14	8:43	16:42	-29	-5.5	10505	11039	X								X	X					Temp = 68°F
PCV-1A3-B19	3-10-14	8:48	16:48	-30	-8	10592	09822	X								X	X					Temp = 68°F
PCV-AMB1	3-10-14	10:09	16:59	-29	-7	10241	10812	X								X		X				Temp = 42°F
PCV-1A2-B21	3-10-14	9:22	17:10	-30	-6	10599	10092	X								X	X					Temp = 73°F

J. Christoffel	Temperature (Fahrenheit)			Barometric (in Hg)
	Start	Interior	Ambient 40°F	
	Stop	JC	52°F	

J. Christoffel	~~Temperature (Fahrenheit)~~ JC		Barometric (in Hg)
	Start	Interior	Ambient 29.86	
	Stop		29.71	

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: Rita Hancock 3/12/14 08:45
Samples Relinquished by: J. Christoffel	Date / Time: 3-10-14 / 5:35 PM	Received by:
Relinquished by:	Date / Time: 3/10/14 / 18:10	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
AFB	3/12/2014	1515	140-1037-a-1	X		-2.7	
AFB	3/12/2014	1516	140-1037-a-2	X		-4.2	
AFB	3/12/2014	1517	140-1037-a-3	X		-1.4	
AFB	3/12/2014	1518	140-1037-a-4	X		-5.2	
AFB	3/12/2014	1519	140-1037-a-5	X		-1.4	
AFB	3/12/2014	1520	140-1037-a-6	X		-4.7	
AFB	3/12/2014	1543	140-1037-a-7	X		-5.2	
AFB	3/12/2014	1544	140-1037-a-8	X		-5.3	
AFB	3/12/2014	1545	140-1037-a-9	X		-5.2	
AFB	3/12/2014	1546	140-1037-a-10	X		-3.6	
AFB	3/12/2014	1547	140-1037-a-11	X		-4.3	
AFB	3/12/2014	1548	140-1037-a-12	X		-4.4	
AFB	3/12/2014	1549	140-1037-a-13	X		-5.5	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1037-1

Login Number: 1037

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

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ANALYTICAL REPORT

Job Number: 140-1041-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/25/2014 2:44 PM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/25/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Comments
No additional comments.

Receipt
The samples were received on 3/12/2014 9:59 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

One or more containers for the following sample was received with the valve removed: PCV-IA2-B4 (140-1041-16). The sample could not be analyzed and was canceled.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 958 exhibited % difference of > 30% for the following analyte(s) trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the prppene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification # 890 and 986 for tetrachloroethene are shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B1

Lab Sample ID: 140-1041-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.083	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.089	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.078	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.74	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.7		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.070	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.6		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.33		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.041	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.083	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.48		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.11	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	79		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.093	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.23	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	14		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	9.8		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.10	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.9	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.37	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	5.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.28	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	16		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.13	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.52	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	2.4		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.37	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	150		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.40	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.45	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.82	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	33		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	34		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.45	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B1 (Continued)

Lab Sample ID: 140-1041-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B1

Lab Sample ID: 140-1041-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.031	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.085	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.079	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.65	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.4		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.9		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.31		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.081	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.34		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.63		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.088	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	84		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.24	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	3.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.76		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.10	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.42		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.17	J	1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.42	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.37	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.9	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	7.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.0		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.25	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.7		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.30	J	1.7	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B1 (Continued)

Lab Sample ID: 140-1041-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	160		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.43	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.44	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.84	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	8.0		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.6		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.45	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.83	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B2

Lab Sample ID: 140-1041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.74		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.091	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.039	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.039	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.70		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	31		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.0		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.79	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.37	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.0	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.59	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.15	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.19	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B2 (Continued)

Lab Sample ID: 140-1041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	59		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.45	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.9		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	2.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.68	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3	1		TO-15	Total/NA
Toluene	0.95		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B2

Lab Sample ID: 140-1041-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.5	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.070	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.052	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.63		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	22		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.053	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.35	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.76	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	8.4	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.61	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.22	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	41		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.48	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.8		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.45	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B2 (Continued)

Lab Sample ID: 140-1041-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propene	2.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.95		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B13

Lab Sample ID: 140-1041-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.080	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.23		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.067	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.99		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	5.5		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	25		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.30		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromodichloromethane	0.078	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.078	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	1.4		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.046	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	48		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.082	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.078	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.21	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.12	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.31		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	10		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.30		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.1		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.31	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.78	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	22		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	60		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.96		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	0.52	J	1.3	0.29	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.49	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	6.6		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B13 (Continued)

Lab Sample ID: 140-1041-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.16	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	90		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.36	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.32	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.73	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.52	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.1		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	38		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B13

Lab Sample ID: 140-1041-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	8.0		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.0		0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.087	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.58	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.5		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.21		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	3.4		0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.41	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	560	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.51		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.033	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.24		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.092	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.69		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	29		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.63		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.31	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.26	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Indane	0.79		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.9		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	2.9		0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.2		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	1.1		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	110	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	370		91	25	ppb v/v	1		TO-15	Total/NA
Toluene - DL	110		3.6	2.2	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B13 (Continued)

Lab Sample ID: 140-1041-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	39		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	15		0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.41	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	4.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.74		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	17		2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.7	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	1300	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.6		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.10	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.2		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.32	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	55		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.7		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.3	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.93	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Indane	3.8		0.97	0.97	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.5		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	13		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	15		2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	5.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	4.5		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.96	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	430	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	880		220	60	ug/m3	1		TO-15	Total/NA
Toluene - DL	420		14	8.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.63		0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.37	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.68		0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.54		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	170	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.34		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.18	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B13 (Continued)

Lab Sample ID: 140-1041-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.075	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	28		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.22		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.17	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.25	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.5	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.96		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.70		0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.40		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	0.25		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.11	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	55	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	220		33	9.3	ppb v/v	1		TO-15	Total/NA
Toluene - DL	72		1.3	0.80	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	8.4		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.1		0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	3.4		2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.2		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	400	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.36	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.86	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.26	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	53		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.97		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.68	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.87	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.7	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	3.7		2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	1.7		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	1.1		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.77	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	210	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	520		79	22	ug/m3	1		TO-15	Total/NA
Toluene - DL	270		5.0	3.0	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB-3 — Lab Sample ID: 140-1041-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.069	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.049	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.60	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.66		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	7.2		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.063	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.43	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	14		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.057	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.18	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.067	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.076	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.60		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.23	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	17		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.70		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.89	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	26		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.77	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.29	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.52	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B14 — Lab Sample ID: 140-1041-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B14 (Continued)

Lab Sample ID: 140-1041-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.37		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.69		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.061	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	0.95	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.27		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	2.2		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.74	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.61	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	24		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.25	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.56	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.45	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.42		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.048	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1FD-B14 (Continued)

Lab Sample ID: 140-1041-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	0.73		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.084	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.5	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.043	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	13		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.075	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.27		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	2.5		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.34	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.4	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.64		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.15	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	25		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.31	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.49	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.57	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.38		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.85		0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B14 (Continued)

Lab Sample ID: 140-1041-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	0.052	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.1		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.48	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	17		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.078	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	15		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.16	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.065	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	2.3		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.21	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.67		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.99	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	31		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.32	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.58	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	37		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B4

Lab Sample ID: 140-1041-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.061	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.4		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.041	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B4 (Continued)

Lab Sample ID: 140-1041-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.040	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	32		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.070	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.59		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	4.5		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.097	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.67		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.35		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.81	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	4.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	8.6	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.71		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.16	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.19	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	60		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.32	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.29	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	2.1		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	6.4		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	16		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.42	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.45	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.9		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B3

Lab Sample ID: 140-1041-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.053	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.78		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.056	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B3 (Continued)

Lab Sample ID: 140-1041-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.30		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.049	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	35		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.055	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.8	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.73		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.11	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.84	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.23	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.74		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.5		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	66		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.5		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.58	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.77	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.35		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.45	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.87		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	5.4		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.98		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B3 (Continued)

Lab Sample ID: 140-1041-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	22		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.059	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.59		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.43	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	2.1		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.69		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	4.8		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	42		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.46	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.1		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.55	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	2.3	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
Propene	2.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.68	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.94		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B3

Lab Sample ID: 140-1041-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.054	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.39	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.90		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.052	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.85		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.61		0.50	0.16	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B3 (Continued)

Lab Sample ID: 140-1041-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	33		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.15	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.33	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.1		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	1.6	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.098	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.27		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.36		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.21	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.74		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	4.2		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	61		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.60	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.2	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.56	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	2.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.67	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.0		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB4

Lab Sample ID: 140-1041-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.60		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.068	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.17	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	15		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB4 (Continued)

Lab Sample ID: 140-1041-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.21		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.28	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.53	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.97	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	29		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.39	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.77		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 14:54	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**J**	0.20	0.031	ppb v/v			03/14/14 14:54	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 14:54	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 14:54	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 14:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 14:54	1
1,2,4-Trimethylbenzene	**0.089**	**J**	0.20	0.063	ppb v/v			03/14/14 14:54	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 14:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 14:54	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 14:54	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 14:54	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 14:54	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:54	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 14:54	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:54	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 14:54	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 14:54	1
2,2,4-Trimethylpentane	**0.078**	**J**	0.50	0.039	ppb v/v			03/14/14 14:54	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
2-Butanone (MEK)	**0.74**	**J**	1.0	0.20	ppb v/v			03/14/14 14:54	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 14:54	1
2-Methylbutane	**1.7**		0.50	0.031	ppb v/v			03/14/14 14:54	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 14:54	1
4-Methyl-2-pentanone (MIBK)	**0.070**	**J**	0.50	0.045	ppb v/v			03/14/14 14:54	1
Acetone	**6.6**		5.0	1.4	ppb v/v			03/14/14 14:54	1
Benzene	**0.33**		0.20	0.056	ppb v/v			03/14/14 14:54	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 14:54	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 14:54	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 14:54	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 14:54	1
Carbon disulfide	**0.041**	**J**	0.50	0.031	ppb v/v			03/14/14 14:54	1
Carbon tetrachloride	**0.083**	**J**	0.20	0.038	ppb v/v			03/14/14 14:54	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 14:54	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 14:54	1
Chloroform	**0.48**		0.20	0.038	ppb v/v			03/14/14 14:54	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/14/14 14:54	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 14:54	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 14:54	1
Cyclohexane	**0.11**	**J**	0.50	0.040	ppb v/v			03/14/14 14:54	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 14:54	1
Dichlorodifluoromethane	**0.52**		0.20	0.068	ppb v/v			03/14/14 14:54	1
Ethanol	**79**		2.0	2.0	ppb v/v			03/14/14 14:54	1
Ethylbenzene	**0.093**	**J**	0.20	0.068	ppb v/v			03/14/14 14:54	1
Heptane	**0.11**	**J**	0.50	0.047	ppb v/v			03/14/14 14:54	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 14:54	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**0.23**	**J**	0.50	0.032	ppb v/v			03/14/14 14:54	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 14:54	1
Isopropyl alcohol	**14**		2.0	0.094	ppb v/v			03/14/14 14:54	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 14:54	1
Methylene Chloride	**9.8**		0.50	0.13	ppb v/v			03/14/14 14:54	1
m-Xylene & p-Xylene	**0.25**		0.20	0.12	ppb v/v			03/14/14 14:54	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 14:54	1
o-Xylene	**0.10**	**J**	0.20	0.061	ppb v/v			03/14/14 14:54	1
Propene	**1.9**	**cn**	0.50	0.077	ppb v/v			03/14/14 14:54	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 14:54	1
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/14/14 14:54	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 14:54	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
Toluene	**0.44**		0.20	0.12	ppb v/v			03/14/14 14:54	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 14:54	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 14:54	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 14:54	1
Trichlorofluoromethane	**0.31**		0.20	0.024	ppb v/v			03/14/14 14:54	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 14:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.63**	**J**	1.5	0.24	ug/m3			03/14/14 14:54	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 14:54	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 14:54	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 14:54	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 14:54	1
1,2,4-Trimethylbenzene	**0.44**	**J**	0.98	0.31	ug/m3			03/14/14 14:54	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 14:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 14:54	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 14:54	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 14:54	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 14:54	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 14:54	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 14:54	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 14:54	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 14:54	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 14:54	1
2,2,4-Trimethylpentane	**0.37**	**J**	2.3	0.18	ug/m3			03/14/14 14:54	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 14:54	1
2-Butanone (MEK)	**2.2**	**J**	2.9	0.59	ug/m3			03/14/14 14:54	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 14:54	1
2-Methylbutane	**5.0**		1.5	0.091	ug/m3			03/14/14 14:54	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 14:54	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 14:54	1
4-Methyl-2-pentanone (MIBK)	**0.28**	**J**	2.0	0.18	ug/m3			03/14/14 14:54	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**16**		12	3.3	ug/m3			03/14/14 14:54	1
Benzene	**1.1**		0.64	0.18	ug/m3			03/14/14 14:54	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 14:54	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 14:54	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 14:54	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 14:54	1
Carbon disulfide	**0.13**	**J**	1.6	0.097	ug/m3			03/14/14 14:54	1
Carbon tetrachloride	**0.52**	**J**	1.3	0.24	ug/m3			03/14/14 14:54	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 14:54	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 14:54	1
Chloroform	**2.4**		0.98	0.19	ug/m3			03/14/14 14:54	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 14:54	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 14:54	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 14:54	1
Cyclohexane	**0.37**	**J**	1.7	0.14	ug/m3			03/14/14 14:54	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 14:54	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/14/14 14:54	1
Ethanol	**150**		3.8	3.8	ug/m3			03/14/14 14:54	1
Ethylbenzene	**0.40**	**J**	0.87	0.30	ug/m3			03/14/14 14:54	1
Heptane	**0.45**	**J**	2.0	0.19	ug/m3			03/14/14 14:54	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 14:54	1
Hexane	**0.82**	**J**	1.8	0.11	ug/m3			03/14/14 14:54	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 14:54	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 14:54	1
Isopropyl alcohol	**33**		4.9	0.23	ug/m3			03/14/14 14:54	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 14:54	1
Methylene Chloride	**34**		1.7	0.45	ug/m3			03/14/14 14:54	1
m-Xylene & p-Xylene	**1.1**		0.87	0.52	ug/m3			03/14/14 14:54	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 14:54	1
o-Xylene	**0.45**	**J**	0.87	0.26	ug/m3			03/14/14 14:54	1
Propene	**3.2**	**cn**	0.86	0.13	ug/m3			03/14/14 14:54	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 14:54	1
Tetrachloroethene	**0.99**	**J**	1.4	0.27	ug/m3			03/14/14 14:54	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 14:54	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 14:54	1
Toluene	**1.6**		0.75	0.45	ug/m3			03/14/14 14:54	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 14:54	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 14:54	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 14:54	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/14/14 14:54	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 14:54*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.031**	**J**	0.20	0.030	ppb v/v			03/14/14 15:40	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**J**	0.20	0.031	ppb v/v			03/14/14 15:40	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 15:40	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 15:40	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 15:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 15:40	1
1,2,4-Trimethylbenzene	**0.085**	**J**	0.20	0.063	ppb v/v			03/14/14 15:40	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 15:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 15:40	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 15:40	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 15:40	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 15:40	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 15:40	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 15:40	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 15:40	1
1,4-Dichlorobenzene	**0.079**	**J**	0.20	0.064	ppb v/v			03/14/14 15:40	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 15:40	1
2,2,4-Trimethylpentane	**0.079**	**J**	0.50	0.039	ppb v/v			03/14/14 15:40	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
2-Butanone (MEK)	**0.65**	**J**	1.0	0.20	ppb v/v			03/14/14 15:40	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 15:40	1
2-Methylbutane	**2.4**		0.50	0.031	ppb v/v			03/14/14 15:40	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 15:40	1
4-Methyl-2-pentanone (MIBK)	**0.29**	**J**	0.50	0.045	ppb v/v			03/14/14 15:40	1
Acetone	**5.9**		5.0	1.4	ppb v/v			03/14/14 15:40	1
Benzene	**0.31**		0.20	0.056	ppb v/v			03/14/14 15:40	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 15:40	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 15:40	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 15:40	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 15:40	1
Carbon disulfide	**0.081**	**J**	0.50	0.031	ppb v/v			03/14/14 15:40	1
Carbon tetrachloride	**0.088**	**J**	0.20	0.038	ppb v/v			03/14/14 15:40	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 15:40	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 15:40	1
Chloroform	**0.34**		0.20	0.038	ppb v/v			03/14/14 15:40	1
Chloromethane	**0.63**		0.50	0.16	ppb v/v			03/14/14 15:40	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 15:40	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 15:40	1
Cyclohexane	**0.088**	**J**	0.50	0.040	ppb v/v			03/14/14 15:40	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 15:40	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/14/14 15:40	1
Ethanol	**84**		2.0	2.0	ppb v/v			03/14/14 15:40	1
Ethylbenzene	**0.10**	**J**	0.20	0.068	ppb v/v			03/14/14 15:40	1
Heptane	**0.11**	**J**	0.50	0.047	ppb v/v			03/14/14 15:40	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 15:40	1
Hexane	**0.24**	**J**	0.50	0.032	ppb v/v			03/14/14 15:40	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 15:40	1
Isopropyl alcohol	**3.2**		2.0	0.094	ppb v/v			03/14/14 15:40	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 15:40	1
Methylene Chloride	**0.76**		0.50	0.13	ppb v/v			03/14/14 15:40	1
m-Xylene & p-Xylene	**0.26**		0.20	0.12	ppb v/v			03/14/14 15:40	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 15:40	1
o-Xylene	**0.10**	**J**	0.20	0.061	ppb v/v			03/14/14 15:40	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 15:40	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 15:40	1
Tetrachloroethene	**0.12**	**J**	0.20	0.040	ppb v/v			03/14/14 15:40	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 15:40	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
Toluene	**0.42**		0.20	0.12	ppb v/v			03/14/14 15:40	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 15:40	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 15:40	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 15:40	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/14/14 15:40	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 15:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.17**	**J**	1.1	0.16	ug/m3			03/14/14 15:40	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.59**	**J**	1.5	0.24	ug/m3			03/14/14 15:40	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 15:40	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 15:40	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 15:40	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 15:40	1
1,2,4-Trimethylbenzene	**0.42**	**J**	0.98	0.31	ug/m3			03/14/14 15:40	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 15:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 15:40	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 15:40	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 15:40	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 15:40	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 15:40	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 15:40	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 15:40	1
1,4-Dichlorobenzene	**0.47**	**J**	1.2	0.38	ug/m3			03/14/14 15:40	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 15:40	1
2,2,4-Trimethylpentane	**0.37**	**J**	2.3	0.18	ug/m3			03/14/14 15:40	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 15:40	1
2-Butanone (MEK)	**1.9**	**J**	2.9	0.59	ug/m3			03/14/14 15:40	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 15:40	1
2-Methylbutane	**7.1**		1.5	0.091	ug/m3			03/14/14 15:40	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 15:40	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 15:40	1
4-Methyl-2-pentanone (MIBK)	**1.2**	**J**	2.0	0.18	ug/m3			03/14/14 15:40	1
Acetone	**14**		12	3.3	ug/m3			03/14/14 15:40	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		0.64	0.18	ug/m3			03/14/14 15:40	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 15:40	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 15:40	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 15:40	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 15:40	1
Carbon disulfide	**0.25**	**J**	1.6	0.097	ug/m3			03/14/14 15:40	1
Carbon tetrachloride	**0.56**	**J**	1.3	0.24	ug/m3			03/14/14 15:40	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 15:40	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 15:40	1
Chloroform	**1.7**		0.98	0.19	ug/m3			03/14/14 15:40	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 15:40	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 15:40	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 15:40	1
Cyclohexane	**0.30**	**J**	1.7	0.14	ug/m3			03/14/14 15:40	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 15:40	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/14/14 15:40	1
Ethanol	**160**		3.8	3.8	ug/m3			03/14/14 15:40	1
Ethylbenzene	**0.43**	**J**	0.87	0.30	ug/m3			03/14/14 15:40	1
Heptane	**0.44**	**J**	2.0	0.19	ug/m3			03/14/14 15:40	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 15:40	1
Hexane	**0.84**	**J**	1.8	0.11	ug/m3			03/14/14 15:40	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 15:40	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 15:40	1
Isopropyl alcohol	**8.0**		4.9	0.23	ug/m3			03/14/14 15:40	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 15:40	1
Methylene Chloride	**2.6**		1.7	0.45	ug/m3			03/14/14 15:40	1
m-Xylene & p-Xylene	**1.1**		0.87	0.52	ug/m3			03/14/14 15:40	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 15:40	1
o-Xylene	**0.45**	**J**	0.87	0.26	ug/m3			03/14/14 15:40	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 15:40	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 15:40	1
Tetrachloroethene	**0.83**	**J**	1.4	0.27	ug/m3			03/14/14 15:40	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 15:40	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 15:40	1
Toluene	**1.6**		0.75	0.45	ug/m3			03/14/14 15:40	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 15:40	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 15:40	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 15:40	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/14/14 15:40	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 15:40*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 16:24	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/14/14 16:24	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 16:24	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 16:24	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 16:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 16:24	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 16:24	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 16:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 16:24	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 16:24	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 16:24	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 16:24	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 16:24	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 16:24	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 16:24	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 16:24	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 16:24	1
2,2,4-Trimethylpentane	**0.043**	**J**	0.50	0.039	ppb v/v			03/14/14 16:24	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
2-Butanone (MEK)	**0.27**	**J**	1.0	0.20	ppb v/v			03/14/14 16:24	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 16:24	1
2-Methylbutane	**0.74**		0.50	0.031	ppb v/v			03/14/14 16:24	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 16:24	1
4-Methyl-2-pentanone (MIBK)	**0.091**	**J**	0.50	0.045	ppb v/v			03/14/14 16:24	1
Acetone	**3.4**	**J**	5.0	1.4	ppb v/v			03/14/14 16:24	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 16:24	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 16:24	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 16:24	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 16:24	1
Bromomethane	**0.039**	**J**	0.20	0.032	ppb v/v			03/14/14 16:24	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 16:24	1
Carbon tetrachloride	**0.065**	**J**	0.20	0.038	ppb v/v			03/14/14 16:24	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 16:24	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 16:24	1
Chloroform	**0.039**	**J**	0.20	0.038	ppb v/v			03/14/14 16:24	1
Chloromethane	**0.70**		0.50	0.16	ppb v/v			03/14/14 16:24	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 16:24	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 16:24	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 16:24	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 16:24	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/14/14 16:24	1
Ethanol	**31**		2.0	2.0	ppb v/v			03/14/14 16:24	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 16:24	1
Heptane	ND		0.50	0.047	ppb v/v			03/14/14 16:24	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 16:24	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/14/14 16:24	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 16:24	1
Isopropyl alcohol	**2.0**		2.0	0.094	ppb v/v			03/14/14 16:24	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 16:24	1
Methylene Chloride	**0.39**	**J**	0.50	0.13	ppb v/v			03/14/14 16:24	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 16:24	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 16:24	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 16:24	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/14/14 16:24	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 16:24	1
Tetrachloroethene	**0.10**	**J**	0.20	0.040	ppb v/v			03/14/14 16:24	1
Tetrahydrofuran	**0.19**	**J**	1.0	0.063	ppb v/v			03/14/14 16:24	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
Toluene	**0.25**		0.20	0.12	ppb v/v			03/14/14 16:24	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 16:24	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 16:24	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 16:24	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/14/14 16:24	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 16:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 16:24	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/14/14 16:24	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 16:24	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 16:24	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 16:24	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 16:24	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 16:24	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 16:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 16:24	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 16:24	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 16:24	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 16:24	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 16:24	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 16:24	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 16:24	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 16:24	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 16:24	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/14/14 16:24	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 16:24	1
2-Butanone (MEK)	**0.79**	**J**	2.9	0.59	ug/m3			03/14/14 16:24	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 16:24	1
2-Methylbutane	**2.2**		1.5	0.091	ug/m3			03/14/14 16:24	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 16:24	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 16:24	1
4-Methyl-2-pentanone (MIBK)	**0.37**	**J**	2.0	0.18	ug/m3			03/14/14 16:24	1
Acetone	**8.0**	**J**	12	3.3	ug/m3			03/14/14 16:24	1

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.59**	**J**	0.64	0.18	ug/m3			03/14/14 16:24	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 16:24	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 16:24	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 16:24	1
Bromomethane	**0.15**	**J**	0.78	0.12	ug/m3			03/14/14 16:24	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 16:24	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/14/14 16:24	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 16:24	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 16:24	1
Chloroform	**0.19**	**J**	0.98	0.19	ug/m3			03/14/14 16:24	1
Chloromethane	**1.5**		1.0	0.33	ug/m3			03/14/14 16:24	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 16:24	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 16:24	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 16:24	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 16:24	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/14/14 16:24	1
Ethanol	**59**		3.8	3.8	ug/m3			03/14/14 16:24	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 16:24	1
Heptane	ND		2.0	0.19	ug/m3			03/14/14 16:24	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 16:24	1
Hexane	**0.45**	**J**	1.8	0.11	ug/m3			03/14/14 16:24	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 16:24	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 16:24	1
Isopropyl alcohol	**4.9**		4.9	0.23	ug/m3			03/14/14 16:24	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 16:24	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/14/14 16:24	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 16:24	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 16:24	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 16:24	1
Propene	**2.0**	**cn**	0.86	0.13	ug/m3			03/14/14 16:24	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 16:24	1
Tetrachloroethene	**0.68**	**J**	1.4	0.27	ug/m3			03/14/14 16:24	1
Tetrahydrofuran	**0.55**	**J**	2.9	0.19	ug/m3			03/14/14 16:24	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 16:24	1
Toluene	**0.95**		0.75	0.45	ug/m3			03/14/14 16:24	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 16:24	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 16:24	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 16:24	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 16:24	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 16:24*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B2
Date Collected: 03/11/14 16:36
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**J**	0.20	0.031	ppb v/v			03/14/14 17:10	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 17:10	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 17:10	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 17:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 17:10	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 17:10	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 17:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 17:10	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 17:10	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 17:10	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 17:10	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:10	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 17:10	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:10	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 17:10	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 17:10	1
2,2,4-Trimethylpentane	**0.041**	**J**	0.50	0.039	ppb v/v			03/14/14 17:10	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
2-Butanone (MEK)	**0.26**	**J**	1.0	0.20	ppb v/v			03/14/14 17:10	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 17:10	1
2-Methylbutane	**1.2**		0.50	0.031	ppb v/v			03/14/14 17:10	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 17:10	1
Acetone	**3.5**	**J**	5.0	1.4	ppb v/v			03/14/14 17:10	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 17:10	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 17:10	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 17:10	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 17:10	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 17:10	1
Carbon disulfide	**0.070**	**J**	0.50	0.031	ppb v/v			03/14/14 17:10	1
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/14/14 17:10	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 17:10	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 17:10	1
Chloroform	**0.052**	**J**	0.20	0.038	ppb v/v			03/14/14 17:10	1
Chloromethane	**0.63**		0.50	0.16	ppb v/v			03/14/14 17:10	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 17:10	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 17:10	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 17:10	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 17:10	1
Dichlorodifluoromethane	**0.48**		0.20	0.068	ppb v/v			03/14/14 17:10	1
Ethanol	**22**		2.0	2.0	ppb v/v			03/14/14 17:10	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 17:10	1
Heptane	**0.053**	**J**	0.50	0.047	ppb v/v			03/14/14 17:10	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 17:10	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/14/14 17:10	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B2
Date Collected: 03/11/14 16:36
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 17:10	1
Isopropyl alcohol	**2.4**		2.0	0.094	ppb v/v			03/14/14 17:10	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 17:10	1
Methylene Chloride	**0.35**	**J**	0.50	0.13	ppb v/v			03/14/14 17:10	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 17:10	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 17:10	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 17:10	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/14/14 17:10	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 17:10	1
Tetrachloroethene	**0.19**	**J**	0.20	0.040	ppb v/v			03/14/14 17:10	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 17:10	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
Toluene	**0.25**		0.20	0.12	ppb v/v			03/14/14 17:10	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 17:10	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 17:10	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 17:10	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/14/14 17:10	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 17:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.53**	**J**	1.5	0.24	ug/m3			03/14/14 17:10	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 17:10	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 17:10	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 17:10	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 17:10	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 17:10	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 17:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 17:10	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 17:10	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 17:10	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 17:10	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 17:10	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 17:10	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 17:10	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 17:10	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 17:10	1
2,2,4-Trimethylpentane	**0.19**	**J**	2.3	0.18	ug/m3			03/14/14 17:10	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 17:10	1
2-Butanone (MEK)	**0.76**	**J**	2.9	0.59	ug/m3			03/14/14 17:10	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 17:10	1
2-Methylbutane	**3.4**		1.5	0.091	ug/m3			03/14/14 17:10	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 17:10	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 17:10	1
Acetone	**8.4**	**J**	12	3.3	ug/m3			03/14/14 17:10	1

Client Sample ID: PCV-IA2-B2

Lab Sample ID: 140-1041-4

Date Collected: 03/11/14 16:36

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.61**	**J**	0.64	0.18	ug/m3			03/14/14 17:10	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 17:10	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 17:10	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 17:10	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 17:10	1
Carbon disulfide	**0.22**	**J**	1.6	0.097	ug/m3			03/14/14 17:10	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/14/14 17:10	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 17:10	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 17:10	1
Chloroform	**0.25**	**J**	0.98	0.19	ug/m3			03/14/14 17:10	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/14/14 17:10	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 17:10	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 17:10	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 17:10	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 17:10	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 17:10	1
Ethanol	**41**		3.8	3.8	ug/m3			03/14/14 17:10	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 17:10	1
Heptane	**0.22**	**J**	2.0	0.19	ug/m3			03/14/14 17:10	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 17:10	1
Hexane	**0.48**	**J**	1.8	0.11	ug/m3			03/14/14 17:10	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 17:10	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 17:10	1
Isopropyl alcohol	**5.8**		4.9	0.23	ug/m3			03/14/14 17:10	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 17:10	1
Methylene Chloride	**1.2**	**J**	1.7	0.45	ug/m3			03/14/14 17:10	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 17:10	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 17:10	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 17:10	1
Propene	**2.0**	**cn**	0.86	0.13	ug/m3			03/14/14 17:10	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 17:10	1
Tetrachloroethene	**1.3**	**J**	1.4	0.27	ug/m3			03/14/14 17:10	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 17:10	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 17:10	1
Toluene	**0.95**		0.75	0.45	ug/m3			03/14/14 17:10	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 17:10	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 17:10	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 17:10	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/14/14 17:10	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 17:10*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.080**	**J**	0.20	0.031	ppb v/v			03/14/14 17:56	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 17:56	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 17:56	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 17:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 17:56	1
1,2,4-Trimethylbenzene	**0.23**		0.20	0.063	ppb v/v			03/14/14 17:56	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 17:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 17:56	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 17:56	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 17:56	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 17:56	1
1,3,5-Trimethylbenzene	**0.089**	**J**	0.20	0.065	ppb v/v			03/14/14 17:56	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 17:56	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:56	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 17:56	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 17:56	1
2,2,4-Trimethylpentane	**0.067**	**J**	0.50	0.039	ppb v/v			03/14/14 17:56	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
2-Butanone (MEK)	**0.26**	**J**	1.0	0.20	ppb v/v			03/14/14 17:56	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 17:56	1
2-Methylbutane	**0.99**		0.50	0.031	ppb v/v			03/14/14 17:56	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
4-Ethyltoluene	**0.10**	**J**	0.40	0.066	ppb v/v			03/14/14 17:56	1
4-Methyl-2-pentanone (MIBK)	**5.5**		0.50	0.045	ppb v/v			03/14/14 17:56	1
Acetone	**25**		5.0	1.4	ppb v/v			03/14/14 17:56	1
Benzene	**0.30**		0.20	0.056	ppb v/v			03/14/14 17:56	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 17:56	1
Bromodichloromethane	**0.078**	**J**	0.20	0.044	ppb v/v			03/14/14 17:56	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 17:56	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 17:56	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 17:56	1
Carbon tetrachloride	**0.078**	**J**	0.20	0.038	ppb v/v			03/14/14 17:56	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 17:56	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 17:56	1
Chloroform	**1.4**		0.20	0.038	ppb v/v			03/14/14 17:56	1
Chloromethane	**0.55**		0.50	0.16	ppb v/v			03/14/14 17:56	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 17:56	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 17:56	1
Cyclohexane	**0.046**	**J**	0.50	0.040	ppb v/v			03/14/14 17:56	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 17:56	1
Dichlorodifluoromethane	**0.48**		0.20	0.068	ppb v/v			03/14/14 17:56	1
Ethanol	**48**		2.0	2.0	ppb v/v			03/14/14 17:56	1
Ethylbenzene	**0.082**	**J**	0.20	0.068	ppb v/v			03/14/14 17:56	1
Heptane	**0.078**	**J**	0.50	0.047	ppb v/v			03/14/14 17:56	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 17:56	1
Hexane	**0.21**	**J**	0.50	0.032	ppb v/v			03/14/14 17:56	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 17:56	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/14/14 17:56	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 17:56	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/14/14 17:56	1
m-Xylene & p-Xylene	**0.29**		0.20	0.12	ppb v/v			03/14/14 17:56	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 17:56	1
o-Xylene	**0.12**	**J**	0.20	0.061	ppb v/v			03/14/14 17:56	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 17:56	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 17:56	1
Tetrachloroethene	**0.31**		0.20	0.040	ppb v/v			03/14/14 17:56	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 17:56	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
Toluene	**10**		0.20	0.12	ppb v/v			03/14/14 17:56	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 17:56	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 17:56	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 17:56	1
Trichlorofluoromethane	**0.30**		0.20	0.024	ppb v/v			03/14/14 17:56	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 17:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 17:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.61**	**J**	1.5	0.24	ug/m3			03/14/14 17:56	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 17:56	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 17:56	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 17:56	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 17:56	1
1,2,4-Trimethylbenzene	**1.1**		0.98	0.31	ug/m3			03/14/14 17:56	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 17:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 17:56	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 17:56	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 17:56	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 17:56	1
1,3,5-Trimethylbenzene	**0.44**	**J**	0.98	0.32	ug/m3			03/14/14 17:56	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 17:56	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 17:56	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 17:56	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 17:56	1
2,2,4-Trimethylpentane	**0.31**	**J**	2.3	0.18	ug/m3			03/14/14 17:56	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 17:56	1
2-Butanone (MEK)	**0.78**	**J**	2.9	0.59	ug/m3			03/14/14 17:56	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 17:56	1
2-Methylbutane	**2.9**		1.5	0.091	ug/m3			03/14/14 17:56	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 17:56	1
4-Ethyltoluene	**0.51**	**J**	2.0	0.32	ug/m3			03/14/14 17:56	1
4-Methyl-2-pentanone (MIBK)	**22**		2.0	0.18	ug/m3			03/14/14 17:56	1
Acetone	**60**		12	3.3	ug/m3			03/14/14 17:56	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.96**		0.64	0.18	ug/m3			03/14/14 17:56	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 17:56	1
Bromodichloromethane	**0.52**	**J**	1.3	0.29	ug/m3			03/14/14 17:56	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 17:56	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 17:56	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 17:56	1
Carbon tetrachloride	**0.49**	**J**	1.3	0.24	ug/m3			03/14/14 17:56	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 17:56	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 17:56	1
Chloroform	**6.6**		0.98	0.19	ug/m3			03/14/14 17:56	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/14/14 17:56	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 17:56	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 17:56	1
Cyclohexane	**0.16**	**J**	1.7	0.14	ug/m3			03/14/14 17:56	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 17:56	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 17:56	1
Ethanol	**90**		3.8	3.8	ug/m3			03/14/14 17:56	1
Ethylbenzene	**0.36**	**J**	0.87	0.30	ug/m3			03/14/14 17:56	1
Heptane	**0.32**	**J**	2.0	0.19	ug/m3			03/14/14 17:56	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 17:56	1
Hexane	**0.73**	**J**	1.8	0.11	ug/m3			03/14/14 17:56	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 17:56	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 17:56	1
Isopropyl alcohol	**3.5**	**J**	4.9	0.23	ug/m3			03/14/14 17:56	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 17:56	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/14/14 17:56	1
m-Xylene & p-Xylene	**1.3**		0.87	0.52	ug/m3			03/14/14 17:56	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 17:56	1
o-Xylene	**0.52**	**J**	0.87	0.26	ug/m3			03/14/14 17:56	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 17:56	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 17:56	1
Tetrachloroethene	**2.1**		1.4	0.27	ug/m3			03/14/14 17:56	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 17:56	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 17:56	1
Toluene	**38**		0.75	0.45	ug/m3			03/14/14 17:56	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 17:56	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 17:56	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 17:56	1
Trichlorofluoromethane	**1.7**		1.1	0.13	ug/m3			03/14/14 17:56	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/14/14 17:56*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 18:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/14/14 18:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 18:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 18:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 18:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 18:42	1
1,2,4-Trimethylbenzene	**8.0**		0.20	0.063	ppb v/v			03/14/14 18:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 18:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 18:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 18:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 18:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 18:42	1
1,3,5-Trimethylbenzene	**3.0**		0.20	0.065	ppb v/v			03/14/14 18:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 18:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 18:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 18:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 18:42	1
2,2,4-Trimethylpentane	**0.087**	**J**	0.50	0.039	ppb v/v			03/14/14 18:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 18:42	1
2-Butanone (MEK)	**0.58**	**J**	1.0	0.20	ppb v/v			03/14/14 18:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 18:42	1
2-Methylbutane	**1.5**		0.50	0.031	ppb v/v			03/14/14 18:42	1
2-Methylpentane	**0.21**		0.20	0.20	ppb v/v			03/14/14 18:42	1
4-Ethyltoluene	**3.4**		0.40	0.066	ppb v/v			03/14/14 18:42	1
4-Methyl-2-pentanone (MIBK)	**0.41**	**J**	0.50	0.045	ppb v/v			03/14/14 18:42	1
Acetone	**560**	**E**	5.0	1.4	ppb v/v			03/14/14 18:42	1
Benzene	**0.51**		0.20	0.056	ppb v/v			03/14/14 18:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 18:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 18:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 18:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 18:42	1
Carbon disulfide	**0.033**	**J**	0.50	0.031	ppb v/v			03/14/14 18:42	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/14/14 18:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 18:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 18:42	1
Chloroform	**0.24**		0.20	0.038	ppb v/v			03/14/14 18:42	1
Chloromethane	**0.57**		0.50	0.16	ppb v/v			03/14/14 18:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 18:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 18:42	1
Cyclohexane	**0.092**	**J**	0.50	0.040	ppb v/v			03/14/14 18:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 18:42	1
Dichlorodifluoromethane	**0.69**		0.20	0.068	ppb v/v			03/14/14 18:42	1
Ethanol	**29**		2.0	2.0	ppb v/v			03/14/14 18:42	1
Ethylbenzene	**0.63**		0.20	0.068	ppb v/v			03/14/14 18:42	1
Heptane	**0.31**	**J**	0.50	0.047	ppb v/v			03/14/14 18:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 18:42	1
Hexane	**0.26**	**J**	0.50	0.032	ppb v/v			03/14/14 18:42	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	**0.79**		0.20	0.20	ppb v/v			03/14/14 18:42	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 18:42	1
Isopropyl alcohol	**2.2**		2.0	0.094	ppb v/v			03/14/14 18:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 18:42	1
Methylene Chloride	**0.36**	**J**	0.50	0.13	ppb v/v			03/14/14 18:42	1
m-Xylene & p-Xylene	**2.9**		0.20	0.12	ppb v/v			03/14/14 18:42	1
Naphthalene	**2.9**		0.50	0.090	ppb v/v			03/14/14 18:42	1
o-Xylene	**1.2**		0.20	0.061	ppb v/v			03/14/14 18:42	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 18:42	1
Styrene	**1.1**		0.20	0.058	ppb v/v			03/14/14 18:42	1
Tetrachloroethene	**0.14**	**J**	0.20	0.040	ppb v/v			03/14/14 18:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 18:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 18:42	1
Toluene	**110**	**E**	0.20	0.12	ppb v/v			03/14/14 18:42	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 18:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 18:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 18:42	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/14/14 18:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 18:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 18:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/14/14 18:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 18:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 18:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 18:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 18:42	1
1,2,4-Trimethylbenzene	**39**		0.98	0.31	ug/m3			03/14/14 18:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 18:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 18:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 18:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 18:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 18:42	1
1,3,5-Trimethylbenzene	**15**		0.98	0.32	ug/m3			03/14/14 18:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 18:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 18:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 18:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 18:42	1
2,2,4-Trimethylpentane	**0.41**	**J**	2.3	0.18	ug/m3			03/14/14 18:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 18:42	1
2-Butanone (MEK)	**1.7**	**J**	2.9	0.59	ug/m3			03/14/14 18:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 18:42	1
2-Methylbutane	**4.3**		1.5	0.091	ug/m3			03/14/14 18:42	1
2-Methylpentane	**0.74**		0.70	0.70	ug/m3			03/14/14 18:42	1
4-Ethyltoluene	**17**		2.0	0.32	ug/m3			03/14/14 18:42	1
4-Methyl-2-pentanone (MIBK)	**1.7**	**J**	2.0	0.18	ug/m3			03/14/14 18:42	1
Acetone	**1300**	**E**	12	3.3	ug/m3			03/14/14 18:42	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		0.64	0.18	ug/m3			03/14/14 18:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 18:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 18:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 18:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 18:42	1
Carbon disulfide	**0.10**	**J**	1.6	0.097	ug/m3			03/14/14 18:42	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/14/14 18:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 18:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 18:42	1
Chloroform	**1.2**		0.98	0.19	ug/m3			03/14/14 18:42	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/14/14 18:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 18:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 18:42	1
Cyclohexane	**0.32**	**J**	1.7	0.14	ug/m3			03/14/14 18:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 18:42	1
Dichlorodifluoromethane	**3.4**		0.99	0.34	ug/m3			03/14/14 18:42	1
Ethanol	**55**		3.8	3.8	ug/m3			03/14/14 18:42	1
Ethylbenzene	**2.7**		0.87	0.30	ug/m3			03/14/14 18:42	1
Heptane	**1.3**	**J**	2.0	0.19	ug/m3			03/14/14 18:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 18:42	1
Hexane	**0.93**	**J**	1.8	0.11	ug/m3			03/14/14 18:42	1
Indane	**3.8**		0.97	0.97	ug/m3			03/14/14 18:42	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 18:42	1
Isopropyl alcohol	**5.5**		4.9	0.23	ug/m3			03/14/14 18:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 18:42	1
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/14/14 18:42	1
m-Xylene & p-Xylene	**13**		0.87	0.52	ug/m3			03/14/14 18:42	1
Naphthalene	**15**		2.6	0.47	ug/m3			03/14/14 18:42	1
o-Xylene	**5.4**		0.87	0.26	ug/m3			03/14/14 18:42	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 18:42	1
Styrene	**4.5**		0.85	0.25	ug/m3			03/14/14 18:42	1
Tetrachloroethene	**0.96**	**J**	1.4	0.27	ug/m3			03/14/14 18:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 18:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 18:42	1
Toluene	**430**	**E**	0.75	0.45	ug/m3			03/14/14 18:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 18:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 18:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 18:42	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 18:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*60 - 140*		*03/14/14 18:42*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**370**		91	25	ppb v/v			03/14/14 20:43	1
Toluene	**110**		3.6	2.2	ppb v/v			03/14/14 20:43	1

Client Sample ID: PCV-IA2-B13

Lab Sample ID: 140-1041-6

Date Collected: 03/11/14 16:10

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**880**		220	60	ug/m3			03/14/14 20:43	1
Toluene	**420**		14	8.2	ug/m3			03/14/14 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/14/14 20:43*	*1*

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Date Collected: 03/11/14 16:14

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 21:28	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.070**	**J**	0.20	0.031	ppb v/v			03/14/14 21:28	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 21:28	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 21:28	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 21:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 21:28	1
1,2,4-Trimethylbenzene	**1.7**		0.20	0.063	ppb v/v			03/14/14 21:28	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 21:28	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 21:28	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 21:28	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 21:28	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 21:28	1
1,3,5-Trimethylbenzene	**0.63**		0.20	0.065	ppb v/v			03/14/14 21:28	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 21:28	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 21:28	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 21:28	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 21:28	1
2,2,4-Trimethylpentane	**0.081**	**J**	0.50	0.039	ppb v/v			03/14/14 21:28	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
2-Butanone (MEK)	**0.37**	**J**	1.0	0.20	ppb v/v			03/14/14 21:28	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 21:28	1
2-Methylbutane	**1.2**		0.50	0.031	ppb v/v			03/14/14 21:28	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
4-Ethyltoluene	**0.68**		0.40	0.066	ppb v/v			03/14/14 21:28	1
4-Methyl-2-pentanone (MIBK)	**0.54**		0.50	0.045	ppb v/v			03/14/14 21:28	1
Acetone	**170**	**E**	5.0	1.4	ppb v/v			03/14/14 21:28	1
Benzene	**0.34**		0.20	0.056	ppb v/v			03/14/14 21:28	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 21:28	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 21:28	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 21:28	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 21:28	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 21:28	1
Carbon tetrachloride	**0.058**	**J**	0.20	0.038	ppb v/v			03/14/14 21:28	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 21:28	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 21:28	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA3-B13
Date Collected: 03/11/14 16:14
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.18**	**J**	0.20	0.038	ppb v/v			03/14/14 21:28	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/14/14 21:28	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 21:28	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 21:28	1
Cyclohexane	**0.075**	**J**	0.50	0.040	ppb v/v			03/14/14 21:28	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 21:28	1
Dichlorodifluoromethane	**0.48**		0.20	0.068	ppb v/v			03/14/14 21:28	1
Ethanol	**28**		2.0	2.0	ppb v/v			03/14/14 21:28	1
Ethylbenzene	**0.22**		0.20	0.068	ppb v/v			03/14/14 21:28	1
Heptane	**0.17**	**J**	0.50	0.047	ppb v/v			03/14/14 21:28	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 21:28	1
Hexane	**0.25**	**J**	0.50	0.032	ppb v/v			03/14/14 21:28	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 21:28	1
Isopropyl alcohol	**1.5**	**J**	2.0	0.094	ppb v/v			03/14/14 21:28	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 21:28	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/14/14 21:28	1
m-Xylene & p-Xylene	**0.96**		0.20	0.12	ppb v/v			03/14/14 21:28	1
Naphthalene	**0.70**		0.50	0.090	ppb v/v			03/14/14 21:28	1
o-Xylene	**0.40**		0.20	0.061	ppb v/v			03/14/14 21:28	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 21:28	1
Styrene	**0.25**		0.20	0.058	ppb v/v			03/14/14 21:28	1
Tetrachloroethene	**0.11**	**J**	0.20	0.040	ppb v/v			03/14/14 21:28	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 21:28	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
Toluene	**55**	**E**	0.20	0.12	ppb v/v			03/14/14 21:28	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 21:28	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 21:28	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 21:28	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/14/14 21:28	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 21:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 21:28	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/14/14 21:28	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 21:28	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 21:28	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 21:28	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 21:28	1
1,2,4-Trimethylbenzene	**8.4**		0.98	0.31	ug/m3			03/14/14 21:28	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 21:28	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 21:28	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 21:28	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 21:28	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 21:28	1
1,3,5-Trimethylbenzene	**3.1**		0.98	0.32	ug/m3			03/14/14 21:28	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 21:28	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA3-B13
Lab Sample ID: 140-1041-7
Date Collected: 03/11/14 16:14
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 21:28	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 21:28	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 21:28	1
2,2,4-Trimethylpentane	**0.38**	**J**	2.3	0.18	ug/m3			03/14/14 21:28	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 21:28	1
2-Butanone (MEK)	**1.1**	**J**	2.9	0.59	ug/m3			03/14/14 21:28	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 21:28	1
2-Methylbutane	**3.5**		1.5	0.091	ug/m3			03/14/14 21:28	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 21:28	1
4-Ethyltoluene	**3.4**		2.0	0.32	ug/m3			03/14/14 21:28	1
4-Methyl-2-pentanone (MIBK)	**2.2**		2.0	0.18	ug/m3			03/14/14 21:28	1
Acetone	**400**	**E**	12	3.3	ug/m3			03/14/14 21:28	1
Benzene	**1.1**		0.64	0.18	ug/m3			03/14/14 21:28	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 21:28	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 21:28	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 21:28	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 21:28	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 21:28	1
Carbon tetrachloride	**0.36**	**J**	1.3	0.24	ug/m3			03/14/14 21:28	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 21:28	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 21:28	1
Chloroform	**0.86**	**J**	0.98	0.19	ug/m3			03/14/14 21:28	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/14/14 21:28	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 21:28	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 21:28	1
Cyclohexane	**0.26**	**J**	1.7	0.14	ug/m3			03/14/14 21:28	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 21:28	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/14/14 21:28	1
Ethanol	**53**		3.8	3.8	ug/m3			03/14/14 21:28	1
Ethylbenzene	**0.97**		0.87	0.30	ug/m3			03/14/14 21:28	1
Heptane	**0.68**	**J**	2.0	0.19	ug/m3			03/14/14 21:28	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 21:28	1
Hexane	**0.87**	**J**	1.8	0.11	ug/m3			03/14/14 21:28	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 21:28	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 21:28	1
Isopropyl alcohol	**3.7**	**J**	4.9	0.23	ug/m3			03/14/14 21:28	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 21:28	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/14/14 21:28	1
m-Xylene & p-Xylene	**4.2**		0.87	0.52	ug/m3			03/14/14 21:28	1
Naphthalene	**3.7**		2.6	0.47	ug/m3			03/14/14 21:28	1
o-Xylene	**1.7**		0.87	0.26	ug/m3			03/14/14 21:28	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 21:28	1
Styrene	**1.1**		0.85	0.25	ug/m3			03/14/14 21:28	1
Tetrachloroethene	**0.77**	**J**	1.4	0.27	ug/m3			03/14/14 21:28	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 21:28	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 21:28	1
Toluene	**210**	**E**	0.75	0.45	ug/m3			03/14/14 21:28	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 21:28	1

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Date Collected: 03/11/14 16:14

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 21:28	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 21:28	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 21:28	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 21:28*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**220**		33	9.3	ppb v/v			03/18/14 06:03	1
Toluene	**72**		1.3	0.80	ppb v/v			03/18/14 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**520**		79	22	ug/m3			03/18/14 06:03	1
Toluene	**270**		5.0	3.0	ug/m3			03/18/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*60 - 140*		*03/18/14 06:03*	*1*

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 22:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.074**	**J**	0.20	0.031	ppb v/v			03/14/14 22:13	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 22:13	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 22:13	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 22:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 22:13	1
1,2,4-Trimethylbenzene	**0.069**	**J**	0.20	0.063	ppb v/v			03/14/14 22:13	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 22:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 22:13	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 22:13	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 22:13	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 22:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:13	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 22:13	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:13	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 22:13	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 22:13	1
2,2,4-Trimethylpentane	**0.049**	**J**	0.50	0.039	ppb v/v			03/14/14 22:13	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
2-Butanone (MEK)	**0.60**	**J**	1.0	0.20	ppb v/v			03/14/14 22:13	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 22:13	1

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	**0.66**		0.50	0.031	ppb v/v			03/14/14 22:13	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 22:13	1
4-Methyl-2-pentanone (MIBK)	**0.11**	**J**	0.50	0.045	ppb v/v			03/14/14 22:13	1
Acetone	**7.2**		5.0	1.4	ppb v/v			03/14/14 22:13	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/14/14 22:13	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 22:13	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 22:13	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 22:13	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 22:13	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 22:13	1
Carbon tetrachloride	**0.063**	**J**	0.20	0.038	ppb v/v			03/14/14 22:13	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 22:13	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 22:13	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 22:13	1
Chloromethane	**0.43**	**J**	0.50	0.16	ppb v/v			03/14/14 22:13	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 22:13	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 22:13	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 22:13	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 22:13	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/14/14 22:13	1
Ethanol	**14**		2.0	2.0	ppb v/v			03/14/14 22:13	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 22:13	1
Heptane	**0.057**	**J**	0.50	0.047	ppb v/v			03/14/14 22:13	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 22:13	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/14/14 22:13	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 22:13	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 22:13	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 22:13	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/14/14 22:13	1
m-Xylene & p-Xylene	**0.18**	**J**	0.20	0.12	ppb v/v			03/14/14 22:13	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 22:13	1
o-Xylene	**0.067**	**J**	0.20	0.061	ppb v/v			03/14/14 22:13	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/14/14 22:13	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 22:13	1
Tetrachloroethene	**0.076**	**J**	0.20	0.040	ppb v/v			03/14/14 22:13	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 22:13	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
Toluene	**0.60**		0.20	0.12	ppb v/v			03/14/14 22:13	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 22:13	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 22:13	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 22:13	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/14/14 22:13	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 22:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 22:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 22:13	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-AMB-3
Date Collected: 03/11/14 16:18
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.57**	**J**	1.5	0.24	ug/m3			03/14/14 22:13	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 22:13	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 22:13	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 22:13	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 22:13	1
1,2,4-Trimethylbenzene	**0.34**	**J**	0.98	0.31	ug/m3			03/14/14 22:13	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 22:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 22:13	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 22:13	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 22:13	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 22:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 22:13	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 22:13	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 22:13	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 22:13	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 22:13	1
2,2,4-Trimethylpentane	**0.23**	**J**	2.3	0.18	ug/m3			03/14/14 22:13	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 22:13	1
2-Butanone (MEK)	**1.8**	**J**	2.9	0.59	ug/m3			03/14/14 22:13	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 22:13	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/14/14 22:13	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 22:13	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 22:13	1
4-Methyl-2-pentanone (MIBK)	**0.44**	**J**	2.0	0.18	ug/m3			03/14/14 22:13	1
Acetone	**17**		12	3.3	ug/m3			03/14/14 22:13	1
Benzene	**0.70**		0.64	0.18	ug/m3			03/14/14 22:13	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 22:13	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 22:13	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 22:13	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 22:13	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 22:13	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			03/14/14 22:13	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 22:13	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 22:13	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 22:13	1
Chloromethane	**0.89**	**J**	1.0	0.33	ug/m3			03/14/14 22:13	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 22:13	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 22:13	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 22:13	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 22:13	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/14/14 22:13	1
Ethanol	**26**		3.8	3.8	ug/m3			03/14/14 22:13	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 22:13	1
Heptane	**0.23**	**J**	2.0	0.19	ug/m3			03/14/14 22:13	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 22:13	1
Hexane	**0.53**	**J**	1.8	0.11	ug/m3			03/14/14 22:13	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 22:13	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 22:13	1

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/14/14 22:13	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 22:13	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/14/14 22:13	1
m-Xylene & p-Xylene	**0.77**	**J**	0.87	0.52	ug/m3			03/14/14 22:13	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 22:13	1
o-Xylene	**0.29**	**J**	0.87	0.26	ug/m3			03/14/14 22:13	1
Propene	**2.2**	**cn**	0.86	0.13	ug/m3			03/14/14 22:13	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 22:13	1
Tetrachloroethene	**0.52**	**J**	1.4	0.27	ug/m3			03/14/14 22:13	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 22:13	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 22:13	1
Toluene	**2.2**		0.75	0.45	ug/m3			03/14/14 22:13	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 22:13	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 22:13	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 22:13	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 22:13	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 22:13*	*1*

Client Sample ID: PCV-IA1-B14

Lab Sample ID: 140-1041-9

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/14/14 22:59	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 22:59	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 22:59	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 22:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 22:59	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 22:59	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 22:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 22:59	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 22:59	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 22:59	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 22:59	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:59	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 22:59	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:59	1
1,4-Dichlorobenzene	**0.37**		0.20	0.064	ppb v/v			03/14/14 22:59	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 22:59	1
2,2,4-Trimethylpentane	**0.045**	**J**	0.50	0.039	ppb v/v			03/14/14 22:59	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B14
Lab Sample ID: 140-1041-9
Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**0.25**	**J**	1.0	0.20	ppb v/v			03/14/14 22:59	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 22:59	1
2-Methylbutane	**0.69**		0.50	0.031	ppb v/v			03/14/14 22:59	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 22:59	1
4-Methyl-2-pentanone (MIBK)	**0.32**	**J**	0.50	0.045	ppb v/v			03/14/14 22:59	1
Acetone	**2.7**	**J**	5.0	1.4	ppb v/v			03/14/14 22:59	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 22:59	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 22:59	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 22:59	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 22:59	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 22:59	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 22:59	1
Carbon tetrachloride	**0.065**	**J**	0.20	0.038	ppb v/v			03/14/14 22:59	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 22:59	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 22:59	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 22:59	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/14/14 22:59	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 22:59	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 22:59	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 22:59	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 22:59	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/14/14 22:59	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/14/14 22:59	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 22:59	1
Heptane	**0.061**	**J**	0.50	0.047	ppb v/v			03/14/14 22:59	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 22:59	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/14/14 22:59	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 22:59	1
Isopropyl alcohol	**1.1**	**J**	2.0	0.094	ppb v/v			03/14/14 22:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 22:59	1
Methylene Chloride	**0.39**	**J**	0.50	0.13	ppb v/v			03/14/14 22:59	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/14/14 22:59	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 22:59	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 22:59	1
Propene	**0.95**	**cn**	0.50	0.077	ppb v/v			03/14/14 22:59	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 22:59	1
Tetrachloroethene	**0.067**	**J**	0.20	0.040	ppb v/v			03/14/14 22:59	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 22:59	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
Toluene	**0.27**		0.20	0.12	ppb v/v			03/14/14 22:59	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 22:59	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 22:59	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 22:59	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/14/14 22:59	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 22:59	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/14/14 22:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 22:59	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 22:59	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 22:59	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 22:59	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 22:59	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 22:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 22:59	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 22:59	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 22:59	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 22:59	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 22:59	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 22:59	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 22:59	1
1,4-Dichlorobenzene	**2.2**		1.2	0.38	ug/m3			03/14/14 22:59	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 22:59	1
2,2,4-Trimethylpentane	**0.21**	**J**	2.3	0.18	ug/m3			03/14/14 22:59	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 22:59	1
2-Butanone (MEK)	**0.74**	**J**	2.9	0.59	ug/m3			03/14/14 22:59	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 22:59	1
2-Methylbutane	**2.1**		1.5	0.091	ug/m3			03/14/14 22:59	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 22:59	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 22:59	1
4-Methyl-2-pentanone (MIBK)	**1.3**	**J**	2.0	0.18	ug/m3			03/14/14 22:59	1
Acetone	**6.5**	**J**	12	3.3	ug/m3			03/14/14 22:59	1
Benzene	**0.61**	**J**	0.64	0.18	ug/m3			03/14/14 22:59	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 22:59	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 22:59	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 22:59	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 22:59	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 22:59	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/14/14 22:59	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 22:59	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 22:59	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 22:59	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/14/14 22:59	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 22:59	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 22:59	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 22:59	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 22:59	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/14/14 22:59	1
Ethanol	**24**		3.8	3.8	ug/m3			03/14/14 22:59	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 22:59	1
Heptane	**0.25**	**J**	2.0	0.19	ug/m3			03/14/14 22:59	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 22:59	1
Hexane	**0.53**	**J**	1.8	0.11	ug/m3			03/14/14 22:59	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 22:59	1

Client Sample ID: PCV-IA1-B14

Lab Sample ID: 140-1041-9

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 22:59	1
Isopropyl alcohol	**2.6**	**J**	4.9	0.23	ug/m3			03/14/14 22:59	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 22:59	1
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/14/14 22:59	1
m-Xylene & p-Xylene	**0.56**	**J**	0.87	0.52	ug/m3			03/14/14 22:59	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 22:59	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 22:59	1
Propene	**1.6**	**cn**	0.86	0.13	ug/m3			03/14/14 22:59	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 22:59	1
Tetrachloroethene	**0.45**	**J**	1.4	0.27	ug/m3			03/14/14 22:59	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 22:59	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 22:59	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/14/14 22:59	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 22:59	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 22:59	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 22:59	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 22:59	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/14/14 22:59*	*1*

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 23:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**J**	0.20	0.031	ppb v/v			03/14/14 23:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 23:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 23:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 23:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 23:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 23:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 23:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 23:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 23:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 23:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 23:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 23:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 23:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 23:45	1
1,4-Dichlorobenzene	**0.42**		0.20	0.064	ppb v/v			03/14/14 23:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 23:45	1
2,2,4-Trimethylpentane	**0.048**	**J**	0.50	0.039	ppb v/v			03/14/14 23:45	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1FD-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
2-Butanone (MEK)	**0.35**	**J**	1.0	0.20	ppb v/v			03/14/14 23:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 23:45	1
2-Methylbutane	**0.73**		0.50	0.031	ppb v/v			03/14/14 23:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 23:45	1
4-Methyl-2-pentanone (MIBK)	**0.084**	**J**	0.50	0.045	ppb v/v			03/14/14 23:45	1
Acetone	**3.5**	**J**	5.0	1.4	ppb v/v			03/14/14 23:45	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/14/14 23:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 23:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 23:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 23:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 23:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 23:45	1
Carbon tetrachloride	**0.072**	**J**	0.20	0.038	ppb v/v			03/14/14 23:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 23:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 23:45	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 23:45	1
Chloromethane	**0.49**	**J**	0.50	0.16	ppb v/v			03/14/14 23:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 23:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 23:45	1
Cyclohexane	**0.043**	**J**	0.50	0.040	ppb v/v			03/14/14 23:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 23:45	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/14/14 23:45	1
Ethanol	**13**		2.0	2.0	ppb v/v			03/14/14 23:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 23:45	1
Heptane	**0.075**	**J**	0.50	0.047	ppb v/v			03/14/14 23:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 23:45	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/14/14 23:45	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 23:45	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 23:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 23:45	1
Methylene Chloride	**0.43**	**J**	0.50	0.13	ppb v/v			03/14/14 23:45	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/14/14 23:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 23:45	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 23:45	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/14/14 23:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 23:45	1
Tetrachloroethene	**0.067**	**J**	0.20	0.040	ppb v/v			03/14/14 23:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 23:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
Toluene	**0.27**		0.20	0.12	ppb v/v			03/14/14 23:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 23:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 23:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 23:45	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/14/14 23:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 23:45	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1FD-B14
Lab Sample ID: 140-1041-10
Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 23:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.53**	**J**	1.5	0.24	ug/m3			03/14/14 23:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 23:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 23:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 23:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 23:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 23:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 23:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 23:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 23:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 23:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 23:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 23:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 23:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 23:45	1
1,4-Dichlorobenzene	**2.5**		1.2	0.38	ug/m3			03/14/14 23:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 23:45	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/14/14 23:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 23:45	1
2-Butanone (MEK)	**1.0**	**J**	2.9	0.59	ug/m3			03/14/14 23:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 23:45	1
2-Methylbutane	**2.2**		1.5	0.091	ug/m3			03/14/14 23:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 23:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 23:45	1
4-Methyl-2-pentanone (MIBK)	**0.34**	**J**	2.0	0.18	ug/m3			03/14/14 23:45	1
Acetone	**8.4**	**J**	12	3.3	ug/m3			03/14/14 23:45	1
Benzene	**0.64**		0.64	0.18	ug/m3			03/14/14 23:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 23:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 23:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 23:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 23:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 23:45	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/14/14 23:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 23:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 23:45	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 23:45	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/14/14 23:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 23:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 23:45	1
Cyclohexane	**0.15**	**J**	1.7	0.14	ug/m3			03/14/14 23:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 23:45	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/14/14 23:45	1
Ethanol	**25**		3.8	3.8	ug/m3			03/14/14 23:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 23:45	1
Heptane	**0.31**	**J**	2.0	0.19	ug/m3			03/14/14 23:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 23:45	1
Hexane	**0.49**	**J**	1.8	0.11	ug/m3			03/14/14 23:45	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 23:45	1

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 23:45	1
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/14/14 23:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 23:45	1
Methylene Chloride	**1.5**	**J**	1.7	0.45	ug/m3			03/14/14 23:45	1
m-Xylene & p-Xylene	**0.57**	**J**	0.87	0.52	ug/m3			03/14/14 23:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 23:45	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 23:45	1
Propene	**1.8**	**cn**	0.86	0.13	ug/m3			03/14/14 23:45	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 23:45	1
Tetrachloroethene	**0.46**	**J**	1.4	0.27	ug/m3			03/14/14 23:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 23:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 23:45	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/14/14 23:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 23:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 23:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 23:45	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 23:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 23:45*	*1*

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Date Collected: 03/11/14 16:42

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/15/14 00:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 00:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 00:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 00:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 00:31	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 00:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 00:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 00:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 00:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 00:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 00:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 00:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 00:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 00:31	1
1,4-Dichlorobenzene	**0.38**		0.20	0.064	ppb v/v			03/15/14 00:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 00:31	1
2,2,4-Trimethylpentane	**0.051**	**J**	0.50	0.039	ppb v/v			03/15/14 00:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B14
Lab Sample ID: 140-1041-11
Date Collected: 03/11/14 16:42
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
2-Butanone (MEK)	**0.35**	**J**	1.0	0.20	ppb v/v			03/15/14 00:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 00:31	1
2-Methylbutane	**0.85**		0.50	0.031	ppb v/v			03/15/14 00:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 00:31	1
4-Methyl-2-pentanone (MIBK)	**0.052**	**J**	0.50	0.045	ppb v/v			03/15/14 00:31	1
Acetone	**6.1**		5.0	1.4	ppb v/v			03/15/14 00:31	1
Benzene	**0.21**		0.20	0.056	ppb v/v			03/15/14 00:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 00:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 00:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 00:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 00:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 00:31	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/15/14 00:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 00:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 00:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 00:31	1
Chloromethane	**0.48**	**J**	0.50	0.16	ppb v/v			03/15/14 00:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 00:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 00:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 00:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 00:31	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/15/14 00:31	1
Ethanol	**17**		2.0	2.0	ppb v/v			03/15/14 00:31	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 00:31	1
Heptane	**0.078**	**J**	0.50	0.047	ppb v/v			03/15/14 00:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 00:31	1
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/15/14 00:31	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 00:31	1
Isopropyl alcohol	**15**		2.0	0.094	ppb v/v			03/15/14 00:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 00:31	1
Methylene Chloride	**0.32**	**J**	0.50	0.13	ppb v/v			03/15/14 00:31	1
m-Xylene & p-Xylene	**0.16**	**J**	0.20	0.12	ppb v/v			03/15/14 00:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 00:31	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 00:31	1
Propene	**1.0**	**cn**	0.50	0.077	ppb v/v			03/15/14 00:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 00:31	1
Tetrachloroethene	**0.065**	**J**	0.20	0.040	ppb v/v			03/15/14 00:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 00:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
Toluene	**0.29**		0.20	0.12	ppb v/v			03/15/14 00:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 00:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 00:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 00:31	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/15/14 00:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 00:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B14
Date Collected: 03/11/14 16:42
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-11
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/15/14 00:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 00:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 00:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 00:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 00:31	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 00:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 00:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 00:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 00:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 00:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 00:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 00:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 00:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 00:31	1
1,4-Dichlorobenzene	**2.3**		1.2	0.38	ug/m3			03/15/14 00:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 00:31	1
2,2,4-Trimethylpentane	**0.24**	**J**	2.3	0.18	ug/m3			03/15/14 00:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 00:31	1
2-Butanone (MEK)	**1.0**	**J**	2.9	0.59	ug/m3			03/15/14 00:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 00:31	1
2-Methylbutane	**2.5**		1.5	0.091	ug/m3			03/15/14 00:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 00:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 00:31	1
4-Methyl-2-pentanone (MIBK)	**0.21**	**J**	2.0	0.18	ug/m3			03/15/14 00:31	1
Acetone	**14**		12	3.3	ug/m3			03/15/14 00:31	1
Benzene	**0.67**		0.64	0.18	ug/m3			03/15/14 00:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 00:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 00:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 00:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 00:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 00:31	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/15/14 00:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 00:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 00:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 00:31	1
Chloromethane	**0.99**	**J**	1.0	0.33	ug/m3			03/15/14 00:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 00:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 00:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 00:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 00:31	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/15/14 00:31	1
Ethanol	**31**		3.8	3.8	ug/m3			03/15/14 00:31	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 00:31	1
Heptane	**0.32**	**J**	2.0	0.19	ug/m3			03/15/14 00:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 00:31	1
Hexane	**0.58**	**J**	1.8	0.11	ug/m3			03/15/14 00:31	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 00:31	1

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Date Collected: 03/11/14 16:42

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 00:31	1
Isopropyl alcohol	**37**		4.9	0.23	ug/m3			03/15/14 00:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 00:31	1
Methylene Chloride	**1.1**	**J**	1.7	0.45	ug/m3			03/15/14 00:31	1
m-Xylene & p-Xylene	**0.70**	**J**	0.87	0.52	ug/m3			03/15/14 00:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 00:31	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 00:31	1
Propene	**1.8**	**cn**	0.86	0.13	ug/m3			03/15/14 00:31	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 00:31	1
Tetrachloroethene	**0.44**	**J**	1.4	0.27	ug/m3			03/15/14 00:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 00:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 00:31	1
Toluene	**1.1**		0.75	0.45	ug/m3			03/15/14 00:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 00:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 00:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 00:31	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/15/14 00:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 00:31*	*1*

Client Sample ID: PCV-IA1-B4

Lab Sample ID: 140-1041-12

Date Collected: 03/11/14 15:26

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 01:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/15/14 01:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 01:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 01:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 01:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 01:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 01:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 01:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 01:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 01:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 01:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 01:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 01:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 01:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 01:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 01:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 01:16	1
2,2,4-Trimethylpentane	**0.061**	**J**	0.50	0.039	ppb v/v			03/15/14 01:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B4
Date Collected: 03/11/14 15:26
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
2-Butanone (MEK)	**0.27**	**J**	1.0	0.20	ppb v/v			03/15/14 01:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 01:16	1
2-Methylbutane	**1.4**		0.50	0.031	ppb v/v			03/15/14 01:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 01:16	1
Acetone	**3.6**	**J**	5.0	1.4	ppb v/v			03/15/14 01:16	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/15/14 01:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 01:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 01:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 01:16	1
Bromomethane	**0.041**	**J**	0.20	0.032	ppb v/v			03/15/14 01:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 01:16	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/15/14 01:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 01:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 01:16	1
Chloroform	**0.040**	**J**	0.20	0.038	ppb v/v			03/15/14 01:16	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/15/14 01:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 01:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 01:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 01:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 01:16	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/15/14 01:16	1
Ethanol	**32**		2.0	2.0	ppb v/v			03/15/14 01:16	1
Ethylbenzene	**0.075**	**J**	0.20	0.068	ppb v/v			03/15/14 01:16	1
Heptane	**0.070**	**J**	0.50	0.047	ppb v/v			03/15/14 01:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 01:16	1
Hexane	**0.59**		0.50	0.032	ppb v/v			03/15/14 01:16	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 01:16	1
Isopropyl alcohol	**2.6**		2.0	0.094	ppb v/v			03/15/14 01:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 01:16	1
Methylene Chloride	**4.5**		0.50	0.13	ppb v/v			03/15/14 01:16	1
m-Xylene & p-Xylene	**0.29**		0.20	0.12	ppb v/v			03/15/14 01:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 01:16	1
o-Xylene	**0.097**	**J**	0.20	0.061	ppb v/v			03/15/14 01:16	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/15/14 01:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 01:16	1
Tetrachloroethene	**0.067**	**J**	0.20	0.040	ppb v/v			03/15/14 01:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 01:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
Toluene	**0.67**		0.20	0.12	ppb v/v			03/15/14 01:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 01:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 01:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 01:16	1
Trichlorofluoromethane	**0.35**		0.20	0.024	ppb v/v			03/15/14 01:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 01:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B4
Date Collected: 03/11/14 15:26
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 01:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.55**	**J**	1.5	0.24	ug/m3			03/15/14 01:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 01:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 01:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 01:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 01:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 01:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 01:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 01:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 01:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 01:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 01:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 01:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 01:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 01:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 01:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 01:16	1
2,2,4-Trimethylpentane	**0.29**	**J**	2.3	0.18	ug/m3			03/15/14 01:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 01:16	1
2-Butanone (MEK)	**0.81**	**J**	2.9	0.59	ug/m3			03/15/14 01:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 01:16	1
2-Methylbutane	**4.0**		1.5	0.091	ug/m3			03/15/14 01:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 01:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 01:16	1
Acetone	**8.6**	**J**	12	3.3	ug/m3			03/15/14 01:16	1
Benzene	**0.71**		0.64	0.18	ug/m3			03/15/14 01:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 01:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 01:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 01:16	1
Bromomethane	**0.16**	**J**	0.78	0.12	ug/m3			03/15/14 01:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 01:16	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/15/14 01:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 01:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 01:16	1
Chloroform	**0.19**	**J**	0.98	0.19	ug/m3			03/15/14 01:16	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/15/14 01:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 01:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 01:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 01:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 01:16	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/15/14 01:16	1
Ethanol	**60**		3.8	3.8	ug/m3			03/15/14 01:16	1
Ethylbenzene	**0.32**	**J**	0.87	0.30	ug/m3			03/15/14 01:16	1
Heptane	**0.29**	**J**	2.0	0.19	ug/m3			03/15/14 01:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 01:16	1
Hexane	**2.1**		1.8	0.11	ug/m3			03/15/14 01:16	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 01:16	1

Client Sample ID: PCV-IA1-B4

Lab Sample ID: 140-1041-12

Date Collected: 03/11/14 15:26

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 01:16	1
Isopropyl alcohol	**6.4**		4.9	0.23	ug/m3			03/15/14 01:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 01:16	1
Methylene Chloride	**16**		1.7	0.45	ug/m3			03/15/14 01:16	1
m-Xylene & p-Xylene	**1.3**		0.87	0.52	ug/m3			03/15/14 01:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 01:16	1
o-Xylene	**0.42**	**J**	0.87	0.26	ug/m3			03/15/14 01:16	1
Propene	**2.2**	**cn**	0.86	0.13	ug/m3			03/15/14 01:16	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 01:16	1
Tetrachloroethene	**0.45**	**J**	1.4	0.27	ug/m3			03/15/14 01:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 01:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 01:16	1
Toluene	**2.5**		0.75	0.45	ug/m3			03/15/14 01:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 01:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 01:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 01:16	1
Trichlorofluoromethane	**1.9**		1.1	0.13	ug/m3			03/15/14 01:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/15/14 01:16*	*1*

Client Sample ID: PCV-IA1-B3

Lab Sample ID: 140-1041-13

Date Collected: 03/11/14 15:50

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/15/14 02:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 02:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 02:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 02:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 02:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 02:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 02:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 02:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 02:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 02:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 02:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 02:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 02:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 02:01	1
2,2,4-Trimethylpentane	**0.053**	**J**	0.50	0.039	ppb v/v			03/15/14 02:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B3
Date Collected: 03/11/14 15:50
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
2-Butanone (MEK)	**0.28**	**J**	1.0	0.20	ppb v/v			03/15/14 02:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 02:01	1
2-Methylbutane	**0.78**		0.50	0.031	ppb v/v			03/15/14 02:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 02:01	1
4-Methyl-2-pentanone (MIBK)	**0.056**	**J**	0.50	0.045	ppb v/v			03/15/14 02:01	1
Acetone	**3.3**	**J**	5.0	1.4	ppb v/v			03/15/14 02:01	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/15/14 02:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 02:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 02:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 02:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 02:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 02:01	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/15/14 02:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 02:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 02:01	1
Chloroform	**0.30**		0.20	0.038	ppb v/v			03/15/14 02:01	1
Chloromethane	**0.54**		0.50	0.16	ppb v/v			03/15/14 02:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 02:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 02:01	1
Cyclohexane	**0.049**	**J**	0.50	0.040	ppb v/v			03/15/14 02:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 02:01	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/15/14 02:01	1
Ethanol	**35**		2.0	2.0	ppb v/v			03/15/14 02:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 02:01	1
Heptane	**0.055**	**J**	0.50	0.047	ppb v/v			03/15/14 02:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 02:01	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/15/14 02:01	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 02:01	1
Isopropyl alcohol	**1.8**	**J**	2.0	0.094	ppb v/v			03/15/14 02:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 02:01	1
Methylene Chloride	**0.73**		0.50	0.13	ppb v/v			03/15/14 02:01	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/15/14 02:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 02:01	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 02:01	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 02:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 02:01	1
Tetrachloroethene	**0.11**	**J**	0.20	0.040	ppb v/v			03/15/14 02:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 02:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
Toluene	**0.28**		0.20	0.12	ppb v/v			03/15/14 02:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 02:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 02:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 02:01	1
Trichlorofluoromethane	**0.31**		0.20	0.024	ppb v/v			03/15/14 02:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 02:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA1-B3
Lab Sample ID: 140-1041-13
Date Collected: 03/11/14 15:50
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 02:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.58**	**J**	1.5	0.24	ug/m3			03/15/14 02:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 02:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 02:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 02:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 02:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 02:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 02:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 02:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 02:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 02:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 02:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 02:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 02:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 02:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 02:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 02:01	1
2,2,4-Trimethylpentane	**0.25**	**J**	2.3	0.18	ug/m3			03/15/14 02:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 02:01	1
2-Butanone (MEK)	**0.84**	**J**	2.9	0.59	ug/m3			03/15/14 02:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 02:01	1
2-Methylbutane	**2.3**		1.5	0.091	ug/m3			03/15/14 02:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 02:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 02:01	1
4-Methyl-2-pentanone (MIBK)	**0.23**	**J**	2.0	0.18	ug/m3			03/15/14 02:01	1
Acetone	**7.8**	**J**	12	3.3	ug/m3			03/15/14 02:01	1
Benzene	**0.74**		0.64	0.18	ug/m3			03/15/14 02:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 02:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 02:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 02:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 02:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 02:01	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/15/14 02:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 02:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 02:01	1
Chloroform	**1.5**		0.98	0.19	ug/m3			03/15/14 02:01	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/15/14 02:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 02:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 02:01	1
Cyclohexane	**0.17**	**J**	1.7	0.14	ug/m3			03/15/14 02:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 02:01	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/15/14 02:01	1
Ethanol	**66**		3.8	3.8	ug/m3			03/15/14 02:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 02:01	1
Heptane	**0.23**	**J**	2.0	0.19	ug/m3			03/15/14 02:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 02:01	1
Hexane	**0.53**	**J**	1.8	0.11	ug/m3			03/15/14 02:01	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 02:01	1

Client Sample ID: PCV-IA1-B3

Lab Sample ID: 140-1041-13

Date Collected: 03/11/14 15:50

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 02:01	1
Isopropyl alcohol	**4.4**	**J**	4.9	0.23	ug/m3			03/15/14 02:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 02:01	1
Methylene Chloride	**2.5**		1.7	0.45	ug/m3			03/15/14 02:01	1
m-Xylene & p-Xylene	**0.58**	**J**	0.87	0.52	ug/m3			03/15/14 02:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 02:01	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 02:01	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 02:01	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 02:01	1
Tetrachloroethene	**0.77**	**J**	1.4	0.27	ug/m3			03/15/14 02:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 02:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 02:01	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/15/14 02:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 02:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 02:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 02:01	1
Trichlorofluoromethane	**1.7**		1.1	0.13	ug/m3			03/15/14 02:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 02:01*	*1*

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Date Collected: 03/11/14 16:04

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 02:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.073**	**J**	0.20	0.031	ppb v/v			03/15/14 02:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 02:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 02:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 02:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 02:46	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 02:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 02:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 02:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 02:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 02:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 02:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 02:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:46	1
1,4-Dichlorobenzene	**0.35**		0.20	0.064	ppb v/v			03/15/14 02:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 02:46	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/15/14 02:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B3
Date Collected: 03/11/14 16:04
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
2-Butanone (MEK)	**0.45**	**J**	1.0	0.20	ppb v/v			03/15/14 02:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 02:46	1
2-Methylbutane	**0.87**		0.50	0.031	ppb v/v			03/15/14 02:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 02:46	1
Acetone	**5.4**		5.0	1.4	ppb v/v			03/15/14 02:46	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/15/14 02:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 02:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 02:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 02:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 02:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 02:46	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/15/14 02:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 02:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 02:46	1
Chloroform	**0.98**		0.20	0.038	ppb v/v			03/15/14 02:46	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/15/14 02:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 02:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 02:46	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 02:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 02:46	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/15/14 02:46	1
Ethanol	**22**		2.0	2.0	ppb v/v			03/15/14 02:46	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 02:46	1
Heptane	**0.059**	**J**	0.50	0.047	ppb v/v			03/15/14 02:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 02:46	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/15/14 02:46	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 02:46	1
Isopropyl alcohol	**1.7**	**J**	2.0	0.094	ppb v/v			03/15/14 02:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 02:46	1
Methylene Chloride	**0.59**		0.50	0.13	ppb v/v			03/15/14 02:46	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/15/14 02:46	1
Naphthalene	**0.43**	**J**	0.50	0.090	ppb v/v			03/15/14 02:46	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 02:46	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/15/14 02:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 02:46	1
Tetrachloroethene	**0.10**	**J**	0.20	0.040	ppb v/v			03/15/14 02:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 02:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
Toluene	**0.25**		0.20	0.12	ppb v/v			03/15/14 02:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 02:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 02:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 02:46	1
Trichlorofluoromethane	**0.31**		0.20	0.024	ppb v/v			03/15/14 02:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 02:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA2-B3
Lab Sample ID: 140-1041-14
Date Collected: 03/11/14 16:04
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 02:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			03/15/14 02:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 02:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 02:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 02:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 02:46	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 02:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 02:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 02:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 02:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 02:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 02:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 02:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 02:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 02:46	1
1,4-Dichlorobenzene	**2.1**		1.2	0.38	ug/m3			03/15/14 02:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 02:46	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/15/14 02:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 02:46	1
2-Butanone (MEK)	**1.3**	**J**	2.9	0.59	ug/m3			03/15/14 02:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 02:46	1
2-Methylbutane	**2.6**		1.5	0.091	ug/m3			03/15/14 02:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 02:46	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 02:46	1
Acetone	**13**		12	3.3	ug/m3			03/15/14 02:46	1
Benzene	**0.69**		0.64	0.18	ug/m3			03/15/14 02:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 02:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 02:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 02:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 02:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 02:46	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/15/14 02:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 02:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 02:46	1
Chloroform	**4.8**		0.98	0.19	ug/m3			03/15/14 02:46	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/15/14 02:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 02:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 02:46	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 02:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 02:46	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/15/14 02:46	1
Ethanol	**42**		3.8	3.8	ug/m3			03/15/14 02:46	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 02:46	1
Heptane	**0.24**	**J**	2.0	0.19	ug/m3			03/15/14 02:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 02:46	1
Hexane	**0.46**	**J**	1.8	0.11	ug/m3			03/15/14 02:46	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 02:46	1

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Date Collected: 03/11/14 16:04

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 02:46	1
Isopropyl alcohol	**4.1**	**J**	4.9	0.23	ug/m3			03/15/14 02:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 02:46	1
Methylene Chloride	**2.1**		1.7	0.45	ug/m3			03/15/14 02:46	1
m-Xylene & p-Xylene	**0.55**	**J**	0.87	0.52	ug/m3			03/15/14 02:46	1
Naphthalene	**2.3**	**J**	2.6	0.47	ug/m3			03/15/14 02:46	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 02:46	1
Propene	**2.1**	**cn**	0.86	0.13	ug/m3			03/15/14 02:46	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 02:46	1
Tetrachloroethene	**0.68**	**J**	1.4	0.27	ug/m3			03/15/14 02:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 02:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 02:46	1
Toluene	**0.94**		0.75	0.45	ug/m3			03/15/14 02:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 02:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 02:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 02:46	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/15/14 02:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 02:46*	*1*

Client Sample ID: PCV-IA3-B3

Lab Sample ID: 140-1041-15

Date Collected: 03/11/14 16:21

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 03:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/15/14 03:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 03:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 03:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 03:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 03:32	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 03:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 03:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 03:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 03:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 03:32	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 03:32	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 03:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 03:32	1
1,4-Dichlorobenzene	**0.078**	**J**	0.20	0.064	ppb v/v			03/15/14 03:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 03:32	1
2,2,4-Trimethylpentane	**0.054**	**J**	0.50	0.039	ppb v/v			03/15/14 03:32	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-IA3-B3
Date Collected: 03/11/14 16:21
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
2-Butanone (MEK)	**0.39**	**J**	1.0	0.20	ppb v/v			03/15/14 03:32	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 03:32	1
2-Methylbutane	**0.90**		0.50	0.031	ppb v/v			03/15/14 03:32	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 03:32	1
4-Methyl-2-pentanone (MIBK)	**0.052**	**J**	0.50	0.045	ppb v/v			03/15/14 03:32	1
Acetone	**4.7**	**J**	5.0	1.4	ppb v/v			03/15/14 03:32	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/15/14 03:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 03:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 03:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 03:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 03:32	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 03:32	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/15/14 03:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 03:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 03:32	1
Chloroform	**0.85**		0.20	0.038	ppb v/v			03/15/14 03:32	1
Chloromethane	**0.61**		0.50	0.16	ppb v/v			03/15/14 03:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 03:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 03:32	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 03:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 03:32	1
Dichlorodifluoromethane	**0.52**		0.20	0.068	ppb v/v			03/15/14 03:32	1
Ethanol	**33**		2.0	2.0	ppb v/v			03/15/14 03:32	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 03:32	1
Heptane	**0.15**	**J**	0.50	0.047	ppb v/v			03/15/14 03:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 03:32	1
Hexane	**0.33**	**J**	0.50	0.032	ppb v/v			03/15/14 03:32	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 03:32	1
Isopropyl alcohol	**1.7**	**J**	2.0	0.094	ppb v/v			03/15/14 03:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 03:32	1
Methylene Chloride	**1.1**		0.50	0.13	ppb v/v			03/15/14 03:32	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/15/14 03:32	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 03:32	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 03:32	1
Propene	**1.6**	**cn**	0.50	0.077	ppb v/v			03/15/14 03:32	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 03:32	1
Tetrachloroethene	**0.098**	**J**	0.20	0.040	ppb v/v			03/15/14 03:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 03:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
Toluene	**0.27**		0.20	0.12	ppb v/v			03/15/14 03:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 03:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 03:32	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 03:32	1
Trichlorofluoromethane	**0.36**		0.20	0.024	ppb v/v			03/15/14 03:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 03:32	1

Client Sample ID: PCV-IA3-B3
Lab Sample ID: 140-1041-15
Date Collected: 03/11/14 16:21
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 03:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.58**	**J**	1.5	0.24	ug/m3			03/15/14 03:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 03:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 03:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 03:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 03:32	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 03:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 03:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 03:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 03:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 03:32	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 03:32	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 03:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 03:32	1
1,4-Dichlorobenzene	**0.47**	**J**	1.2	0.38	ug/m3			03/15/14 03:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 03:32	1
2,2,4-Trimethylpentane	**0.25**	**J**	2.3	0.18	ug/m3			03/15/14 03:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 03:32	1
2-Butanone (MEK)	**1.1**	**J**	2.9	0.59	ug/m3			03/15/14 03:32	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 03:32	1
2-Methylbutane	**2.6**		1.5	0.091	ug/m3			03/15/14 03:32	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 03:32	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 03:32	1
4-Methyl-2-pentanone (MIBK)	**0.21**	**J**	2.0	0.18	ug/m3			03/15/14 03:32	1
Acetone	**11**	**J**	12	3.3	ug/m3			03/15/14 03:32	1
Benzene	**0.74**		0.64	0.18	ug/m3			03/15/14 03:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 03:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 03:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 03:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 03:32	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 03:32	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/15/14 03:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 03:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 03:32	1
Chloroform	**4.2**		0.98	0.19	ug/m3			03/15/14 03:32	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/15/14 03:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 03:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 03:32	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 03:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 03:32	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			03/15/14 03:32	1
Ethanol	**61**		3.8	3.8	ug/m3			03/15/14 03:32	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 03:32	1
Heptane	**0.60**	**J**	2.0	0.19	ug/m3			03/15/14 03:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 03:32	1
Hexane	**1.2**	**J**	1.8	0.11	ug/m3			03/15/14 03:32	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 03:32	1

Client Sample ID: PCV-IA3-B3

Lab Sample ID: 140-1041-15

Date Collected: 03/11/14 16:21

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 03:32	1
Isopropyl alcohol	**4.1**	**J**	4.9	0.23	ug/m3			03/15/14 03:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 03:32	1
Methylene Chloride	**3.7**		1.7	0.45	ug/m3			03/15/14 03:32	1
m-Xylene & p-Xylene	**0.56**	**J**	0.87	0.52	ug/m3			03/15/14 03:32	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 03:32	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 03:32	1
Propene	**2.7**	**cn**	0.86	0.13	ug/m3			03/15/14 03:32	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 03:32	1
Tetrachloroethene	**0.67**	**J**	1.4	0.27	ug/m3			03/15/14 03:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 03:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 03:32	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/15/14 03:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 03:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 03:32	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 03:32	1
Trichlorofluoromethane	**2.0**		1.1	0.13	ug/m3			03/15/14 03:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 03:32*	*1*

Client Sample ID: PCV-AMB4

Lab Sample ID: 140-1041-17

Date Collected: 03/11/14 16:39

Matrix: Air

Date Received: 03/12/14 09:59

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 05:03	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 05:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.073**	**J**	0.20	0.031	ppb v/v			03/15/14 05:03	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 05:03	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 05:03	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 05:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 05:03	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 05:03	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 05:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 05:03	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 05:03	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 05:03	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 05:03	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:03	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 05:03	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:03	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 05:03	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 05:03	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/15/14 05:03	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
2-Butanone (MEK)	**0.46**	**J**	1.0	0.20	ppb v/v			03/15/14 05:03	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 05:03	1
2-Methylbutane	**0.60**		0.50	0.031	ppb v/v			03/15/14 05:03	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 05:03	1
4-Methyl-2-pentanone (MIBK)	**0.068**	**J**	0.50	0.045	ppb v/v			03/15/14 05:03	1
Acetone	**5.5**		5.0	1.4	ppb v/v			03/15/14 05:03	1
Benzene	**0.17**	**J**	0.20	0.056	ppb v/v			03/15/14 05:03	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 05:03	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 05:03	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 05:03	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 05:03	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 05:03	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/15/14 05:03	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 05:03	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 05:03	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 05:03	1
Chloromethane	**0.47**	**J**	0.50	0.16	ppb v/v			03/15/14 05:03	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 05:03	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 05:03	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 05:03	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 05:03	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/15/14 05:03	1
Ethanol	**15**		2.0	2.0	ppb v/v			03/15/14 05:03	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 05:03	1
Heptane	**0.048**	**J**	0.50	0.047	ppb v/v			03/15/14 05:03	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 05:03	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/15/14 05:03	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 05:03	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/15/14 05:03	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 05:03	1
Methylene Chloride	**0.36**	**J**	0.50	0.13	ppb v/v			03/15/14 05:03	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/15/14 05:03	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 05:03	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 05:03	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 05:03	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 05:03	1
Tetrachloroethene	**0.042**	**J**	0.20	0.040	ppb v/v			03/15/14 05:03	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 05:03	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
Toluene	**0.21**		0.20	0.12	ppb v/v			03/15/14 05:03	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 05:03	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 05:03	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 05:03	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/15/14 05:03	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 05:03	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 05:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 05:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			03/15/14 05:03	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 05:03	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 05:03	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 05:03	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 05:03	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 05:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 05:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 05:03	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 05:03	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 05:03	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 05:03	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 05:03	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 05:03	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 05:03	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 05:03	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 05:03	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/15/14 05:03	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 05:03	1
2-Butanone (MEK)	**1.4**	**J**	2.9	0.59	ug/m3			03/15/14 05:03	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 05:03	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/15/14 05:03	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 05:03	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 05:03	1
4-Methyl-2-pentanone (MIBK)	**0.28**	**J**	2.0	0.18	ug/m3			03/15/14 05:03	1
Acetone	**13**		12	3.3	ug/m3			03/15/14 05:03	1
Benzene	**0.53**	**J**	0.64	0.18	ug/m3			03/15/14 05:03	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 05:03	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 05:03	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 05:03	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 05:03	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 05:03	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/15/14 05:03	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 05:03	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 05:03	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 05:03	1
Chloromethane	**0.97**	**J**	1.0	0.33	ug/m3			03/15/14 05:03	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 05:03	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 05:03	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 05:03	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 05:03	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/15/14 05:03	1
Ethanol	**29**		3.8	3.8	ug/m3			03/15/14 05:03	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 05:03	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/15/14 05:03	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 05:03	1
Hexane	**0.39**	**J**	1.8	0.11	ug/m3			03/15/14 05:03	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 05:03	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 05:03	1
Isopropyl alcohol	**3.5**	**J**	4.9	0.23	ug/m3			03/15/14 05:03	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 05:03	1
Methylene Chloride	**1.2**	**J**	1.7	0.45	ug/m3			03/15/14 05:03	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/15/14 05:03	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 05:03	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 05:03	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 05:03	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 05:03	1
Tetrachloroethene	**0.28**	**J**	1.4	0.27	ug/m3			03/15/14 05:03	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 05:03	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 05:03	1
Toluene	**0.77**		0.75	0.45	ug/m3			03/15/14 05:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 05:03	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 05:03	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 05:03	1
Trichlorofluoromethane	**1.7**		1.1	0.13	ug/m3			03/15/14 05:03	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 05:03*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
140-1041-1	PCV-IA1-B1	105							
140-1041-2	PCV-IA2-B1	106							
140-1041-3	PCV-IA1-B2	106							
140-1041-4	PCV-IA2-B2	106							
140-1041-5	PCV-IA1-B13	107							
140-1041-6	PCV-IA2-B13	111							
140-1041-6 - DL	PCV-IA2-B13	98							
140-1041-7	PCV-IA3-B13	106							
140-1041-7 - DL	PCV-IA3-B13	86							
140-1041-8	PCV-AMB-3	103							
140-1041-9	PCV-IA1-B14	104							
140-1041-10	PCV-IA1FD-B14	105							
140-1041-11	PCV-IA2-B14	107							
140-1041-12	PCV-IA1-B4	105							
140-1041-13	PCV-IA1-B3	107							
140-1041-14	PCV-IA2-B3	107							
140-1041-15	PCV-IA3-B3	106							
140-1041-17	PCV-AMB4	106							
LCS 140-958/1002	Lab Control Sample	110							
LCS 140-967/1002	Lab Control Sample	108							
MB 140-958/5	Method Blank	105							
MB 140-967/5	Method Blank	103							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/14/14 14:09	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 14:09	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 14:09	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 14:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 14:09	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 14:09	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 14:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 14:09	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 14:09	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 14:09	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 14:09	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:09	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 14:09	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:09	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 14:09	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 14:09	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 14:09	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/14/14 14:09	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 14:09	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/14/14 14:09	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 14:09	1
Acetone	ND		5.0	1.4	ppb v/v			03/14/14 14:09	1
Benzene	ND		0.20	0.056	ppb v/v			03/14/14 14:09	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 14:09	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 14:09	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 14:09	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 14:09	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 14:09	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/14/14 14:09	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 14:09	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 14:09	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 14:09	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/14/14 14:09	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 14:09	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 14:09	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 14:09	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 14:09	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/14/14 14:09	1
Ethanol	ND		2.0	2.0	ppb v/v			03/14/14 14:09	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 14:09	1
Heptane	ND		0.50	0.047	ppb v/v			03/14/14 14:09	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 14:09	1
Hexane	ND		0.50	0.032	ppb v/v			03/14/14 14:09	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 14:09	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/14/14 14:09	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 14:09	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/14/14 14:09	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 14:09	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 14:09	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 14:09	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 14:09	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 14:09	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 14:09	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 14:09	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
Toluene	ND		0.20	0.12	ppb v/v			03/14/14 14:09	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 14:09	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 14:09	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 14:09	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/14/14 14:09	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 14:09	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/14/14 14:09	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 14:09	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 14:09	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 14:09	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 14:09	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 14:09	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 14:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 14:09	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 14:09	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 14:09	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 14:09	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 14:09	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 14:09	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 14:09	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 14:09	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 14:09	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 14:09	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 14:09	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/14/14 14:09	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 14:09	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/14/14 14:09	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 14:09	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 14:09	1
Acetone	ND		12	3.3	ug/m3			03/14/14 14:09	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/14/14 14:09	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 14:09	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 14:09	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 14:09	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 14:09	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 14:09	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/14/14 14:09	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 14:09	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 14:09	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 14:09	1
Chloromethane	ND		1.0	0.33	ug/m3			03/14/14 14:09	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 14:09	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 14:09	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 14:09	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 14:09	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/14/14 14:09	1
Ethanol	ND		3.8	3.8	ug/m3			03/14/14 14:09	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 14:09	1
Heptane	ND		2.0	0.19	ug/m3			03/14/14 14:09	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 14:09	1
Hexane	ND		1.8	0.11	ug/m3			03/14/14 14:09	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 14:09	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 14:09	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/14/14 14:09	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 14:09	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/14/14 14:09	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 14:09	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 14:09	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 14:09	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 14:09	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 14:09	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 14:09	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 14:09	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 14:09	1
Toluene	ND		0.75	0.45	ug/m3			03/14/14 14:09	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 14:09	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 14:09	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 14:09	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/14/14 14:09	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 14:09*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.25		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,1-Dichloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.51		ppb v/v		75	60 - 140
1,2,4-Trimethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.00		ppb v/v		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33		ppb v/v		116	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.27		ppb v/v		113	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,3,5-Trimethylbenzene	2.00	2.03		ppb v/v		102	70 - 130
1,3-Butadiene	2.00	2.27		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	2.00	2.04		ppb v/v		102	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.79		ppb v/v		90	70 - 130
2,3-Dimethylpentane	2.00	1.93		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.58		ppb v/v		79	60 - 140
2-Hexanone	2.00	1.53		ppb v/v		76	60 - 140
2-Methylbutane	2.00	2.27		ppb v/v		113	70 - 130
2-Methylpentane	2.00	1.81		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.05		ppb v/v		102	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.53		ppb v/v		76	60 - 140
Acetone	2.00	1.92	J	ppb v/v		96	60 - 140
Benzene	2.00	2.05		ppb v/v		102	70 - 130
Benzyl chloride	2.00	2.12		ppb v/v		106	70 - 130
Bromodichloromethane	2.00	2.26		ppb v/v		113	70 - 130
Bromoform	2.00	1.71		ppb v/v		86	60 - 140
Bromomethane	2.00	2.53		ppb v/v		126	70 - 130
Carbon disulfide	2.00	2.16		ppb v/v		108	70 - 130
Carbon tetrachloride	2.00	2.45		ppb v/v		123	70 - 130
Chlorobenzene	2.00	1.98		ppb v/v		99	70 - 130
Chloroethane	2.00	2.48		ppb v/v		124	70 - 130
Chloroform	2.00	2.23		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
cis-1,3-Dichloropropene	2.00	2.17		ppb v/v		108	70 - 130
Cyclohexane	2.00	1.93		ppb v/v		96	70 - 130
Dibromochloromethane	2.00	2.02		ppb v/v		101	70 - 130
Dichlorodifluoromethane	2.00	2.49		ppb v/v		124	60 - 140
Ethanol	10.0	10.3		ppb v/v		103	20 - 180
Ethylbenzene	2.00	2.05		ppb v/v		102	70 - 130
Heptane	2.00	1.92		ppb v/v		96	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.03		ppb v/v		101	60 - 140
Hexane	2.00	1.86		ppb v/v		93	70 - 130
Indane	2.00	2.09		ppb v/v		105	20 - 180
Indene	2.00	2.16		ppb v/v		108	20 - 180
Isopropyl alcohol	2.00	1.97		ppb v/v		98	60 - 140
Methyl tert-butyl ether	2.00	2.19		ppb v/v		110	60 - 140
Methylene Chloride	2.00	2.14		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	4.41		ppb v/v		110	70 - 130
Naphthalene	2.00	1.49		ppb v/v		75	40 - 140
o-Xylene	2.00	2.10		ppb v/v		105	70 - 130
Propene	2.00	1.89		ppb v/v		94	60 - 140
Styrene	2.00	2.12		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	1.87		ppb v/v		94	70 - 130
Tetrahydrofuran	2.00	1.66		ppb v/v		83	60 - 140
Thiophene	2.00	1.99		ppb v/v		99	20 - 180
Toluene	2.00	1.94		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	1.99		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	2.00	1.99		ppb v/v		100	70 - 130
Trichloroethene	2.00	1.89		ppb v/v		95	70 - 130
Trichlorofluoromethane	2.00	2.64		ppb v/v		132	60 - 140
Vinyl chloride	2.00	2.47		ppb v/v		124	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.3		ug/m3		112	70 - 130
1,1,2,2-Tetrachloroethane	14	14.3		ug/m3		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.1		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	10.7		ug/m3		98	70 - 130
1,1-Dichloroethane	8.1	8.19		ug/m3		101	70 - 130
1,1-Dichloroethene	7.9	8.16		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	11.2		ug/m3		75	60 - 140
1,2,4-Trimethylbenzene	9.8	10.7		ug/m3		109	70 - 130
1,2-Dibromoethane (EDB)	15	15.4		ug/m3		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	16.3		ug/m3		116	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	9.19		ug/m3		113	70 - 130
1,2-Dichloropropane	9.2	9.04		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	9.8	9.99		ug/m3		102	70 - 130
1,3-Butadiene	4.4	5.01		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,4-Dichlorobenzene	12	12.3		ug/m3		102	70 - 130
1,4-Dioxane	7.2	5.66		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	8.37		ug/m3		90	70 - 130
2,3-Dimethylpentane	8.2	7.91		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.65		ug/m3		79	60 - 140
2-Hexanone	8.2	6.26		ug/m3		76	60 - 140
2-Methylbutane	5.9	6.70		ug/m3		113	70 - 130
2-Methylpentane	7.0	6.38		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.1		ug/m3		102	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	6.25		ug/m3		76	60 - 140
Acetone	4.8	4.56	J	ug/m3		96	60 - 140
Benzene	6.4	6.54		ug/m3		102	70 - 130
Benzyl chloride	10	11.0		ug/m3		106	70 - 130
Bromodichloromethane	13	15.1		ug/m3		113	70 - 130
Bromoform	21	17.7		ug/m3		86	60 - 140
Bromomethane	7.8	9.82		ug/m3		126	70 - 130
Carbon disulfide	6.2	6.72		ug/m3		108	70 - 130
Carbon tetrachloride	13	15.4		ug/m3		123	70 - 130
Chlorobenzene	9.2	9.12		ug/m3		99	70 - 130
Chloroethane	5.3	6.54		ug/m3		124	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	7.55		ug/m3		95	70 - 130
cis-1,3-Dichloropropene	9.1	9.83		ug/m3		108	70 - 130
Cyclohexane	6.9	6.63		ug/m3		96	70 - 130
Dibromochloromethane	17	17.2		ug/m3		101	70 - 130
Dichlorodifluoromethane	9.9	12.3		ug/m3		124	60 - 140
Ethanol	19	19.4		ug/m3		103	20 - 180
Ethylbenzene	8.7	8.89		ug/m3		102	70 - 130
Heptane	8.2	7.86		ug/m3		96	70 - 130
Hexachlorobutadiene	21	21.6		ug/m3		101	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	10.1		ug/m3		105	20 - 180
Indene	9.5	10.2		ug/m3		108	20 - 180
Isopropyl alcohol	4.9	4.83		ug/m3		98	60 - 140
Methyl tert-butyl ether	7.2	7.90		ug/m3		110	60 - 140
Methylene Chloride	6.9	7.44		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	19.2		ug/m3		110	70 - 130
Naphthalene	10	7.83		ug/m3		75	40 - 140
o-Xylene	8.7	9.13		ug/m3		105	70 - 130
Propene	3.4	3.25		ug/m3		94	60 - 140
Styrene	8.5	9.05		ug/m3		106	70 - 130
Tetrachloroethene	14	12.7		ug/m3		94	70 - 130
Tetrahydrofuran	5.9	4.90		ug/m3		83	60 - 140
Thiophene	6.9	6.84		ug/m3		99	20 - 180
Toluene	7.5	7.31		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	7.91		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	9.1	9.05		ug/m3		100	70 - 130
Trichloroethene	11	10.2		ug/m3		95	70 - 130
Trichlorofluoromethane	11	14.9		ug/m3		132	60 - 140
Vinyl chloride	5.1	6.32		ug/m3		124	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 17:11	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/17/14 17:11	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 17:11	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/17/14 17:11	1
Acetone	ND		5.0	1.4	ppb v/v			03/17/14 17:11	1
Benzene	ND		0.20	0.056	ppb v/v			03/17/14 17:11	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 17:11	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 17:11	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/17/14 17:11	1
Chloroform	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 17:11	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/17/14 17:11	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Ethanol	ND		2.0	2.0	ppb v/v			03/17/14 17:11	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Heptane	ND		0.50	0.047	ppb v/v			03/17/14 17:11	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 17:11	1
Hexane	ND		0.50	0.032	ppb v/v			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 17:11	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/17/14 17:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 17:11	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 17:11	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
Propene	ND		0.50	0.077	ppb v/v			03/17/14 17:11	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 17:11	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/17/14 17:11	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 17:11	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Toluene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 17:11	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/17/14 17:11	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 17:11	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/17/14 17:11	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 17:11	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 17:11	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/17/14 17:11	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 17:11	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/17/14 17:11	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/17/14 17:11	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/17/14 17:11	1
Acetone	ND		12	3.3	ug/m3			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/17/14 17:11	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 17:11	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 17:11	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 17:11	1
Bromomethane	ND		0.78	0.12	ug/m3			03/17/14 17:11	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 17:11	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/17/14 17:11	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 17:11	1
Chloroethane	ND		0.53	0.092	ug/m3			03/17/14 17:11	1
Chloroform	ND		0.98	0.19	ug/m3			03/17/14 17:11	1
Chloromethane	ND		1.0	0.33	ug/m3			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 17:11	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/17/14 17:11	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/17/14 17:11	1
Ethanol	ND		3.8	3.8	ug/m3			03/17/14 17:11	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/17/14 17:11	1
Heptane	ND		2.0	0.19	ug/m3			03/17/14 17:11	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 17:11	1
Hexane	ND		1.8	0.11	ug/m3			03/17/14 17:11	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 17:11	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 17:11	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/17/14 17:11	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 17:11	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/17/14 17:11	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 17:11	1
o-Xylene	ND		0.87	0.26	ug/m3			03/17/14 17:11	1
Propene	ND		0.86	0.13	ug/m3			03/17/14 17:11	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 17:11	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/17/14 17:11	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 17:11	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 17:11	1
Toluene	ND		0.75	0.45	ug/m3			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 17:11	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 17:11	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/17/14 17:11	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/17/14 17:11*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Air - GC/MS VOA

Analysis Batch: 958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1041-1	PCV-IA1-B1	Total/NA	Air	TO-15	
140-1041-2	PCV-IA2-B1	Total/NA	Air	TO-15	
140-1041-3	PCV-IA1-B2	Total/NA	Air	TO-15	
140-1041-4	PCV-IA2-B2	Total/NA	Air	TO-15	
140-1041-5	PCV-IA1-B13	Total/NA	Air	TO-15	
140-1041-6	PCV-IA2-B13	Total/NA	Air	TO-15	
140-1041-6 - DL	PCV-IA2-B13	Total/NA	Air	TO-15	
140-1041-7	PCV-IA3-B13	Total/NA	Air	TO-15	
140-1041-8	PCV-AMB-3	Total/NA	Air	TO-15	
140-1041-9	PCV-IA1-B14	Total/NA	Air	TO-15	
140-1041-10	PCV-IA1FD-B14	Total/NA	Air	TO-15	
140-1041-11	PCV-IA2-B14	Total/NA	Air	TO-15	
140-1041-12	PCV-IA1-B4	Total/NA	Air	TO-15	
140-1041-13	PCV-IA1-B3	Total/NA	Air	TO-15	
140-1041-14	PCV-IA2-B3	Total/NA	Air	TO-15	
140-1041-15	PCV-IA3-B3	Total/NA	Air	TO-15	
140-1041-17	PCV-AMB4	Total/NA	Air	TO-15	
LCS 140-958/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-958/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1041-7 - DL	PCV-IA3-B13	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: PCV-IA1-B1
Lab Sample ID: 140-1041-1
Date Collected: 03/11/14 16:20
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 14:54	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B1
Lab Sample ID: 140-1041-2
Date Collected: 03/11/14 16:17
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 15:40	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B2
Lab Sample ID: 140-1041-3
Date Collected: 03/11/14 16:40
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 16:24	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B2
Lab Sample ID: 140-1041-4
Date Collected: 03/11/14 16:36
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 17:10	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B13
Lab Sample ID: 140-1041-5
Date Collected: 03/11/14 15:06
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 17:56	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B13
Lab Sample ID: 140-1041-6
Date Collected: 03/11/14 16:10
Matrix: Air
Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 18:42	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B13

Lab Sample ID: 140-1041-6

Date Collected: 03/11/14 16:10

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	11 mL	500 mL	958	03/14/14 20:43	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Date Collected: 03/11/14 16:14

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 21:28	AFB	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	30 mL	500 mL	967	03/18/14 06:03	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 22:13	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B14

Lab Sample ID: 140-1041-9

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 22:59	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Date Collected: 03/11/14 16:35

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/14/14 23:45	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Date Collected: 03/11/14 16:42

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 00:31	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B4

Lab Sample ID: 140-1041-12

Date Collected: 03/11/14 15:26

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 01:16	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B3

Lab Sample ID: 140-1041-13

Date Collected: 03/11/14 15:50

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 02:01	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Date Collected: 03/11/14 16:04

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 02:46	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B3

Lab Sample ID: 140-1041-15

Date Collected: 03/11/14 16:21

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 03:32	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB4

Lab Sample ID: 140-1041-17

Date Collected: 03/11/14 16:39

Matrix: Air

Date Received: 03/12/14 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 05:03	AFB	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1041-1	PCV-IA1-B1	Air	03/11/14 16:20	03/12/14 09:59
140-1041-2	PCV-IA2-B1	Air	03/11/14 16:17	03/12/14 09:59
140-1041-3	PCV-IA1-B2	Air	03/11/14 16:40	03/12/14 09:59
140-1041-4	PCV-IA2-B2	Air	03/11/14 16:36	03/12/14 09:59
140-1041-5	PCV-IA1-B13	Air	03/11/14 15:06	03/12/14 09:59
140-1041-6	PCV-IA2-B13	Air	03/11/14 16:10	03/12/14 09:59
140-1041-7	PCV-IA3-B13	Air	03/11/14 16:14	03/12/14 09:59
140-1041-8	PCV-AMB-3	Air	03/11/14 16:18	03/12/14 09:59
140-1041-9	PCV-IA1-B14	Air	03/11/14 16:35	03/12/14 09:59
140-1041-10	PCV-IA1FD-B14	Air	03/11/14 16:35	03/12/14 09:59
140-1041-11	PCV-IA2-B14	Air	03/11/14 16:42	03/12/14 09:59
140-1041-12	PCV-IA1-B4	Air	03/11/14 15:26	03/12/14 09:59
140-1041-13	PCV-IA1-B3	Air	03/11/14 15:50	03/12/14 09:59
140-1041-14	PCV-IA2-B3	Air	03/11/14 16:04	03/12/14 09:59
140-1041-15	PCV-IA3-B3	Air	03/11/14 16:21	03/12/14 09:59
140-1041-17	PCV-AMB4	Air	03/11/14 16:39	03/12/14 09:59

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
PCV-IA1-B1	140-1041-1	105
PCV-IA2-B1	140-1041-2	106
PCV-IA1-B2	140-1041-3	106
PCV-IA2-B2	140-1041-4	106
PCV-IA1-B13	140-1041-5	107
PCV-IA2-B13	140-1041-6	111
PCV-IA2-B13 DL	140-1041-6 DL	98
PCV-IA3-B13	140-1041-7	106
PCV-IA3-B13 DL	140-1041-7 DL	86
PCV-AMB-3	140-1041-8	103
PCV-IA1-B14	140-1041-9	104
PCV-IA1FD-B14	140-1041-10	105
PCV-IA2-B14	140-1041-11	107
PCV-IA1-B4	140-1041-12	105
PCV-IA1-B3	140-1041-13	107
PCV-IA2-B3	140-1041-14	107
PCV-IA3-B3	140-1041-15	106
PCV-AMB4	140-1041-17	106
	MB 140-958/5	105
	MB 140-967/5	103
	LCS 140-958/1002	110
	LCS 140-967/1002	108

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC14-LCS.d

Lab ID: LCS 140-958/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.25	112	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.08	104	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24	112	70-130	
1,1,2-Trichloroethane	2.00	1.96	98	70-130	
1,1-Dichloroethane	2.00	2.02	101	70-130	
1,1-Dichloroethene	2.00	2.06	103	70-130	
1,2,4-Trichlorobenzene	2.00	1.51	75	60-140	
1,2,4-Trimethylbenzene	2.00	2.18	109	70-130	
1,2-Dibromoethane (EDB)	2.00	2.00	100	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33	116	60-140	
1,2-Dichlorobenzene	2.00	2.08	104	70-130	
1,2-Dichloroethane	2.00	2.27	113	70-130	
1,2-Dichloropropane	2.00	1.96	98	70-130	
1,3,5-Trimethylbenzene	2.00	2.03	102	70-130	
1,3-Butadiene	2.00	2.27	113	60-140	
1,3-Dichlorobenzene	2.00	2.06	103	70-130	
1,4-Dichlorobenzene	2.00	2.04	102	70-130	
1,4-Dioxane	2.00	1.57	79	60-140	
2,2,4-Trimethylpentane	2.00	1.79	90	70-130	
2,3-Dimethylpentane	2.00	1.93	97	20-180	
2-Butanone (MEK)	2.00	1.58	79	60-140	
2-Hexanone	2.00	1.53	76	60-140	
2-Methylbutane	2.00	2.27	113	70-130	
2-Methylpentane	2.00	1.81	90	20-180	
4-Ethyltoluene	2.00	2.05	102	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.53	76	60-140	
Acetone	2.00	1.92 J	96	60-140	
Benzene	2.00	2.05	102	70-130	
Benzyl chloride	2.00	2.12	106	70-130	
Bromodichloromethane	2.00	2.26	113	70-130	
Bromoform	2.00	1.71	86	60-140	
Bromomethane	2.00	2.53	126	70-130	
Carbon disulfide	2.00	2.16	108	70-130	
Carbon tetrachloride	2.00	2.45	123	70-130	
Chlorobenzene	2.00	1.98	99	70-130	
Chloroethane	2.00	2.48	124	70-130	
Chloroform	2.00	2.23	111	70-130	
Chloromethane	2.00	2.24	112	60-140	
cis-1,2-Dichloroethene	2.00	1.90	95	70-130	
cis-1,3-Dichloropropene	2.00	2.17	108	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC14-LCS.d

Lab ID: LCS 140-958/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.93	96	70-130	
Dibromochloromethane	2.00	2.02	101	70-130	
Dichlorodifluoromethane	2.00	2.49	124	60-140	
Ethanol	10.0	10.3	103	20-180	
Ethylbenzene	2.00	2.05	102	70-130	
Heptane	2.00	1.92	96	70-130	
Hexachlorobutadiene	2.00	2.03	101	60-140	
Hexane	2.00	1.86	93	70-130	
Indane	2.00	2.09	105	20-180	
Indene	2.00	2.16	108	20-180	
Isopropyl alcohol	2.00	1.97	98	60-140	
Methyl tert-butyl ether	2.00	2.19	110	60-140	
Methylene Chloride	2.00	2.14	107	70-130	
m-Xylene & p-Xylene	4.00	4.41	110	70-130	
Naphthalene	2.00	1.49	75	40-140	
o-Xylene	2.00	2.10	105	70-130	
Propene	2.00	1.89	94	60-140	
Styrene	2.00	2.12	106	70-130	
Tetrachloroethene	2.00	1.87	94	70-130	
Tetrahydrofuran	2.00	1.66	83	60-140	
Thiophene	2.00	1.99	99	20-180	
Toluene	2.00	1.94	97	70-130	
trans-1,2-Dichloroethene	2.00	1.99	100	70-130	
trans-1,3-Dichloropropene	2.00	1.99	100	70-130	
Trichloroethene	2.00	1.89	95	70-130	
Trichlorofluoromethane	2.00	2.64	132	60-140	
Vinyl chloride	2.00	2.47	124	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.28	114	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22	111	70-130	
1,1,2-Trichloroethane	2.00	2.11	106	70-130	
1,1-Dichloroethane	2.00	2.03	102	70-130	
1,1-Dichloroethene	2.00	2.07	104	70-130	
1,2,4-Trichlorobenzene	2.00	2.21	110	60-140	
1,2,4-Trimethylbenzene	2.00	2.40	120	70-130	
1,2-Dibromoethane (EDB)	2.00	2.19	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65	133	60-140	
1,2-Dichlorobenzene	2.00	2.33	117	70-130	
1,2-Dichloroethane	2.00	2.31	115	70-130	
1,2-Dichloropropane	2.00	1.97	99	70-130	
1,3,5-Trimethylbenzene	2.00	2.24	112	70-130	
1,3-Butadiene	2.00	2.43	122	60-140	
1,3-Dichlorobenzene	2.00	2.33	116	70-130	
1,4-Dichlorobenzene	2.00	2.31	115	70-130	
1,4-Dioxane	2.00	1.83	91	60-140	
2,2,4-Trimethylpentane	2.00	1.85	92	70-130	
2,3-Dimethylpentane	2.00	1.95	97	20-180	
2-Butanone (MEK)	2.00	1.63	82	60-140	
2-Hexanone	2.00	1.77	89	60-140	
2-Methylbutane	2.00	2.40	120	70-130	
2-Methylpentane	2.00	1.79	90	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.81	90	60-140	
Acetone	2.00	1.98 J	99	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.54	127	70-130	
Bromodichloromethane	2.00	2.31	116	70-130	
Bromoform	2.00	2.57	129	60-140	
Bromomethane	2.00	2.64	132	70-130	*
Carbon disulfide	2.00	2.07	103	70-130	
Carbon tetrachloride	2.00	2.43	121	70-130	
Chlorobenzene	2.00	2.16	108	70-130	
Chloroethane	2.00	2.65	133	70-130	*
Chloroform	2.00	2.25	112	70-130	
Chloromethane	2.00	2.20	110	60-140	
cis-1,2-Dichloroethene	2.00	1.99	99	70-130	
cis-1,3-Dichloropropene	2.00	2.19	110	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.99	100	70-130	
Dibromochloromethane	2.00	2.40	120	70-130	
Dichlorodifluoromethane	2.00	2.53	126	60-140	
Ethanol	10.0	10.8	108	20-180	
Ethylbenzene	2.00	2.25	112	70-130	
Heptane	2.00	2.03	101	70-130	
Hexachlorobutadiene	2.00	2.42	121	60-140	
Hexane	2.00	1.87	93	70-130	
Indane	2.00	2.34	117	20-180	
Indene	2.00	2.44	122	20-180	
Isopropyl alcohol	2.00	2.28	114	60-140	
Methyl tert-butyl ether	2.00	2.23	111	60-140	
Methylene Chloride	2.00	2.09	105	70-130	
m-Xylene & p-Xylene	4.00	4.73	118	70-130	
Naphthalene	2.00	2.51	125	40-140	
o-Xylene	2.00	2.27	114	70-130	
Propene	2.00	1.83	92	60-140	
Styrene	2.00	2.32	116	70-130	
Tetrachloroethene	2.00	2.11	106	70-130	
Tetrahydrofuran	2.00	1.65	82	60-140	
Thiophene	2.00	2.04	102	20-180	
Toluene	2.00	2.12	106	70-130	
trans-1,2-Dichloroethene	2.00	2.05	103	70-130	
trans-1,3-Dichloropropene	2.00	2.23	111	70-130	
Trichloroethene	2.00	1.99	99	70-130	
Trichlorofluoromethane	2.00	2.69	135	60-140	
Vinyl chloride	2.00	2.52	126	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab File ID: MB200mL.D Lab Sample ID: MB 140-958/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/14/2014 14:09

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-958/1002	ECCVC14-LCS.d	03/14/2014 09:55
PCV-IA1-B1	140-1041-1	EC14P101.D	03/14/2014 14:54
PCV-IA2-B1	140-1041-2	EC14P102.D	03/14/2014 15:40
PCV-IA1-B2	140-1041-3	EC14P103.D	03/14/2014 16:24
PCV-IA2-B2	140-1041-4	EC14P104.D	03/14/2014 17:10
PCV-IA1-B13	140-1041-5	EC14P105.D	03/14/2014 17:56
PCV-IA2-B13	140-1041-6	EC14P106.D	03/14/2014 18:42
PCV-IA2-B13 DL	140-1041-6 DL	EC14P106RR.D	03/14/2014 20:43
PCV-IA3-B13	140-1041-7	EC14P107.D	03/14/2014 21:28
PCV-AMB-3	140-1041-8	EC14P108.D	03/14/2014 22:13
PCV-IA1-B14	140-1041-9	EC14P109.D	03/14/2014 22:59
PCV-IA1FD-B14	140-1041-10	EC14P110.D	03/14/2014 23:45
PCV-IA2-B14	140-1041-11	EC14P111.D	03/15/2014 00:31
PCV-IA1-B4	140-1041-12	EC14P112.D	03/15/2014 01:16
PCV-IA1-B3	140-1041-13	EC14P113.D	03/15/2014 02:01
PCV-IA2-B3	140-1041-14	EC14P114.D	03/15/2014 02:46
PCV-IA3-B3	140-1041-15	EC14P115.D	03/15/2014 03:32
PCV-AMB4	140-1041-17	EC14P201.D	03/15/2014 05:03

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab File ID: EMBC17.D Lab Sample ID: MB 140-967/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/17/2014 17:11

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014 14:10
PCV-IA3-B13 DL	140-1041-7 DL	EC17POS201.D	03/18/2014 06:03

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab File ID: EBFBC14.D BFB Injection Date: 03/14/2014

Instrument ID: ME BFB Injection Time: 09:24

Analysis Batch No.: 958

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	6.0	(7.3)1
176	95.0 - 101.0 % of mass 174	79.9	(97.2)1
177	5.0 - 9.0 % of mass 176	5.4	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-958/2	ECCVC14.D	03/14/2014	09:55
	LCS 140-958/1002	ECCVC14-LCS.d	03/14/2014	09:55
	MB 140-958/5	MB200mL.D	03/14/2014	14:09
PCV-IA1-B1	140-1041-1	EC14P101.D	03/14/2014	14:54
PCV-IA2-B1	140-1041-2	EC14P102.D	03/14/2014	15:40
PCV-IA1-B2	140-1041-3	EC14P103.D	03/14/2014	16:24
PCV-IA2-B2	140-1041-4	EC14P104.D	03/14/2014	17:10
PCV-IA1-B13	140-1041-5	EC14P105.D	03/14/2014	17:56
PCV-IA2-B13	140-1041-6	EC14P106.D	03/14/2014	18:42
PCV-IA2-B13 DL	140-1041-6 DL	EC14P106RR.D	03/14/2014	20:43
PCV-IA3-B13	140-1041-7	EC14P107.D	03/14/2014	21:28
PCV-AMB-3	140-1041-8	EC14P108.D	03/14/2014	22:13
PCV-IA1-B14	140-1041-9	EC14P109.D	03/14/2014	22:59
PCV-IA1FD-B14	140-1041-10	EC14P110.D	03/14/2014	23:45
PCV-IA2-B14	140-1041-11	EC14P111.D	03/15/2014	00:31
PCV-IA1-B4	140-1041-12	EC14P112.D	03/15/2014	01:16
PCV-IA1-B3	140-1041-13	EC14P113.D	03/15/2014	02:01
PCV-IA2-B3	140-1041-14	EC14P114.D	03/15/2014	02:46
PCV-IA3-B3	140-1041-15	EC14P115.D	03/15/2014	03:32
PCV-AMB4	140-1041-17	EC14P201.D	03/15/2014	05:03

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab File ID: EBFBC17.D BFB Injection Date: 03/17/2014

Instrument ID: ME BFB Injection Time: 13:39

Analysis Batch No.: 967

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	56.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.3)1
176	95.0 - 101.0 % of mass 174	79.2	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-967/2	ECCVC17.D	03/17/2014	14:10
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014	14:10
	MB 140-967/5	EMBC17.D	03/17/2014	17:11
PCV-IA3-B13 DL	140-1041-7 DL	EC17POS201.D	03/18/2014	06:03

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Sample No.: CCVIS 140-958/2 Date Analyzed: 03/14/2014 09:55

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC14.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		205602	8.35	1014056	10.58	970133	15.39
UPPER LIMIT		287843	8.68	1419678	10.91	1358186	15.72
LOWER LIMIT		123361	8.02	608434	10.25	582080	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-958/1002		205602	8.35	1014056	10.58	970133	15.39
MB 140-958/5		211730	8.33	1055190	10.57	932935	15.38
140-1041-1	PCV-IA1-B1	181008	8.33	885950	10.57	796126	15.38
140-1041-2	PCV-IA2-B1	188611	8.33	866513	10.57	838209	15.38
140-1041-3	PCV-IA1-B2	210206	8.33	1039152	10.57	906714	15.38
140-1041-4	PCV-IA2-B2	200541	8.33	1001233	10.57	876431	15.38
140-1041-5	PCV-IA1-B13	206004	8.33	1016108	10.57	887421	15.38
140-1041-6	PCV-IA2-B13	203912	8.36	1031675	10.58	946594	15.39
140-1041-6 DL	PCV-IA2-B13 DL	206756	8.34	1061687	10.57	918915	15.38
140-1041-7	PCV-IA3-B13	221794	8.35	1125143	10.57	1005196	15.38
140-1041-8	PCV-AMB-3	212240	8.33	1085324	10.57	940007	15.38
140-1041-9	PCV-IA1-B14	216595	8.34	1073285	10.57	935572	15.38
140-1041-10	PCV-IA1FD-B14	204494	8.33	964546	10.57	864194	15.38
140-1041-11	PCV-IA2-B14	209379	8.33	1016315	10.57	937881	15.38
140-1041-12	PCV-IA1-B4	201229	8.33	981818	10.57	855286	15.38
140-1041-13	PCV-IA1-B3	187795	8.33	912841	10.57	803576	15.38
140-1041-14	PCV-IA2-B3	192706	8.33	954916	10.57	868840	15.38
140-1041-15	PCV-IA3-B3	179001	8.33	887225	10.57	828300	15.38
140-1041-17	PCV-AMB4	188271	8.33	945049	10.57	827600	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Sample No.: CCVIS 140-967/2 Date Analyzed: 03/17/2014 14:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC17.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194987	8.34	948363	10.58	841452	15.39
UPPER LIMIT		272982	8.67	1327708	10.91	1178033	15.72
LOWER LIMIT		116992	8.01	569018	10.25	504871	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-967/1002		194987	8.34	948363	10.58	841452	15.39
MB 140-967/5		189632	8.33	941923	10.57	834864	15.38
140-1041-7 DL	PCV-IA3-B13 DL	187920	8.34	951051	10.57	769534	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.083	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.089	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.078	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.74	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.7		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.070	J	0.50	0.045
67-64-1	Acetone	58.08	6.6		5.0	1.4
71-43-2	Benzene	78.11	0.33		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.041	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.083	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.48		0.20	0.038
74-87-3	Chloromethane	50.49	0.65		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.11	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.52		0.20	0.068
64-17-5	Ethanol	46.07	79		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.093	J	0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.23	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	14		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	9.8		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.25		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.10	J	0.20	0.061
115-07-1	Propene	42.08	1.9	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.44		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.31		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.63	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.44	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.37	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	5.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.28	J	2.0	0.18
67-64-1	Acetone	58.08	16		12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.13	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.52	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	2.4		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.37	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	150		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.40	J	0.87	0.30
142-82-5	Heptane	100.21	0.45	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.82	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	33		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	34		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.45	J	0.87	0.26
115-07-1	Propene	42.08	3.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.99	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B1 Lab Sample ID: 140-1041-1

Matrix: Air Lab File ID: EC14P101.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D
Lims ID: 140-1041-A-1 Lab Sample ID: 140-1041-1
Client ID: PCV-IA1-B1
Sample Type: Client
Inject. Date: 14-Mar-2014 14:54:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-1
Misc. Info.: E031414,TO155,,140-0000522-006
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:46:33 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:22:17

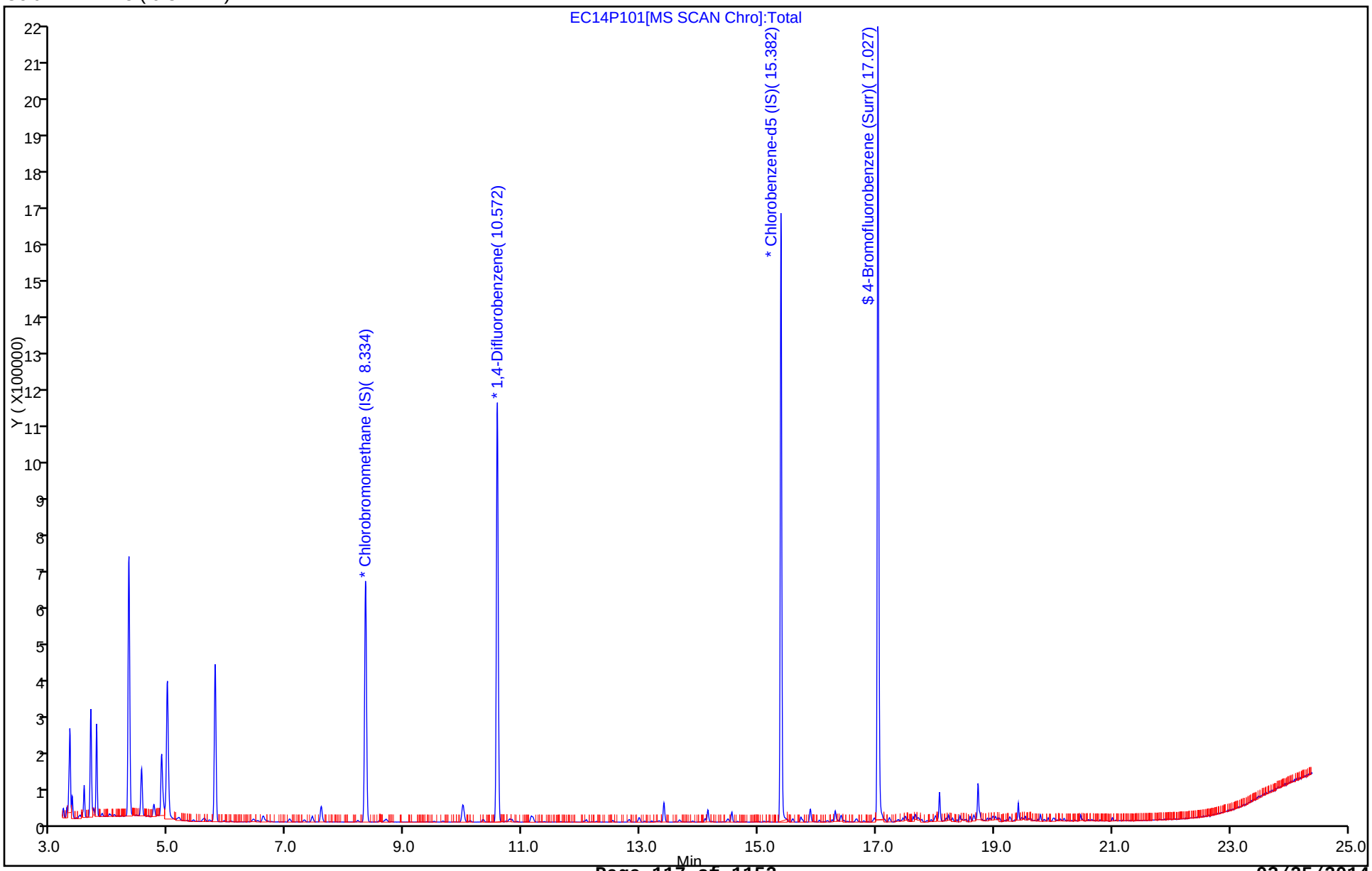
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	82	181008	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	885950	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	796126	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	732103	4.20	
7 Propene	41	3.319	3.314	0.005	77	33735	0.7409	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	41276	0.2061	
9 Chloromethane	52	3.535	3.530	0.005	98	4160	0.2603	
17 Ethanol	31	4.322	4.317	0.005	98	568704	31.4	
19 2-Methylbutane	43	4.538	4.538	0.0	87	43355	0.6840	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25191	0.1254	
23 Acetone	58	4.872	4.883	-0.011	93	72639	2.65	
24 Isopropyl alcohol	45	4.975	4.975	0.0	98	384132	5.44	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	69	4106	0.0330	
31 Methylene Chloride	84	5.784	5.795	-0.011	86	202595	3.92	
33 Carbon disulfide	76	5.940	5.940	0.0	80	3052	0.0163	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	94	8828	0.2980	
40 Hexane	56	7.590	7.590	0.0	54	4462	0.0927	
43 Chloroform	83	8.345	8.356	-0.011	73	29949	0.1931	
49 Cyclohexane	69	9.995	9.984	0.011	49	1435	0.0429	
48 Benzene	78	9.995	9.995	0.0	95	23652	0.1327	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	83	5653	0.0330	
53 Isooctane	57	10.777	10.788	-0.011	63	8612	0.0313	
54 n-Heptane	71	11.176	11.182	-0.006	55	2961	0.0439	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	79	2920	0.0278	
65 Toluene	91	13.398	13.403	-0.005	90	37118	0.1740	
73 Tetrachloroethene	129	14.552	14.552	0.0	82	5305	0.0584	
76 Ethylbenzene	91	15.717	15.722	-0.005	80	10123	0.0370	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	94	21817	0.1015	
82 o-Xylene	91	16.407	16.412	-0.005	75	9650	0.0415	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	71	8677	0.0355	

Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D				
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1	Worklist Smp#:	6
Client ID:	PCV-IA1-B1				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

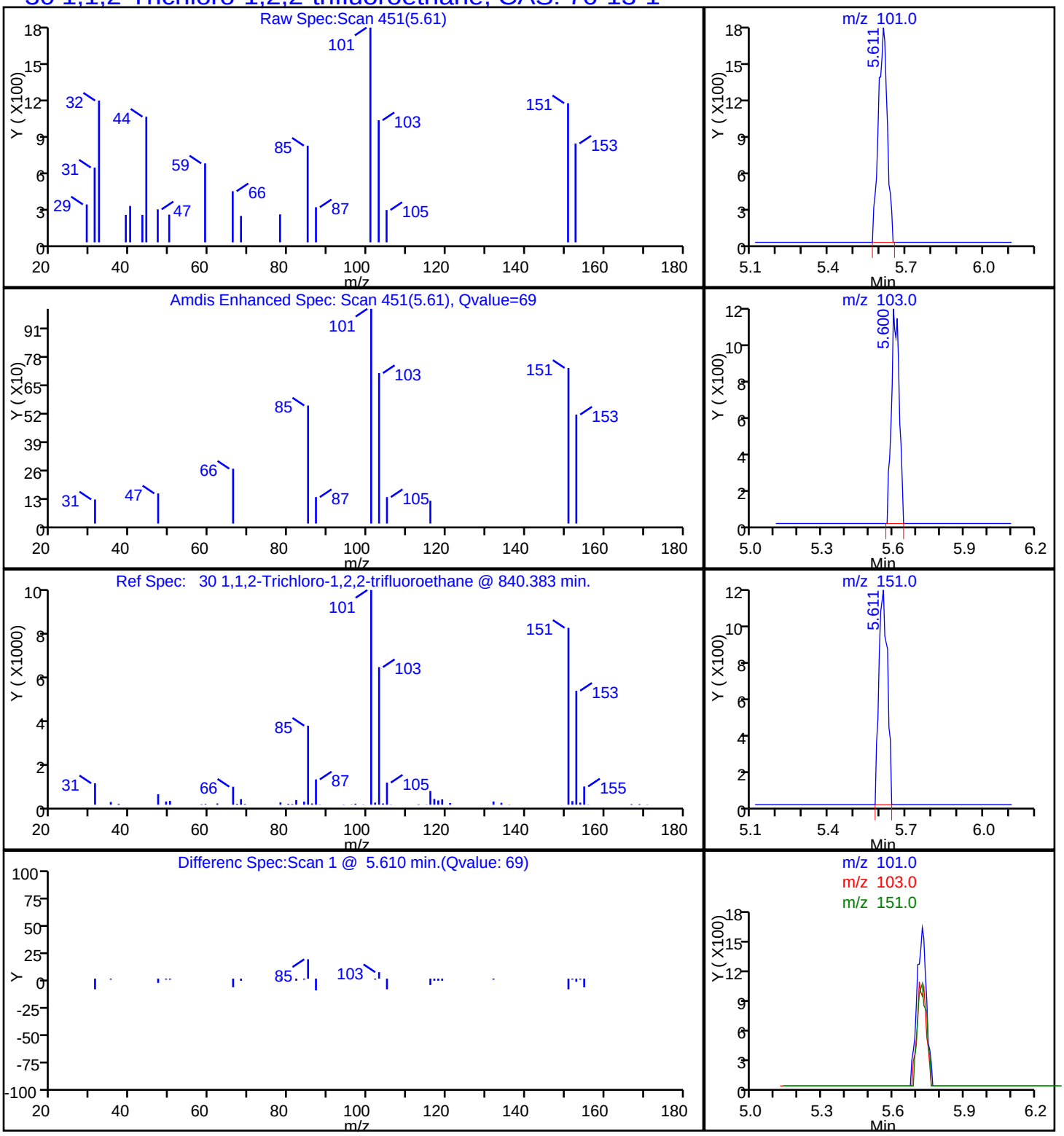


Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D				
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME		
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1		
Client ID:	PCV-IA1-B1				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



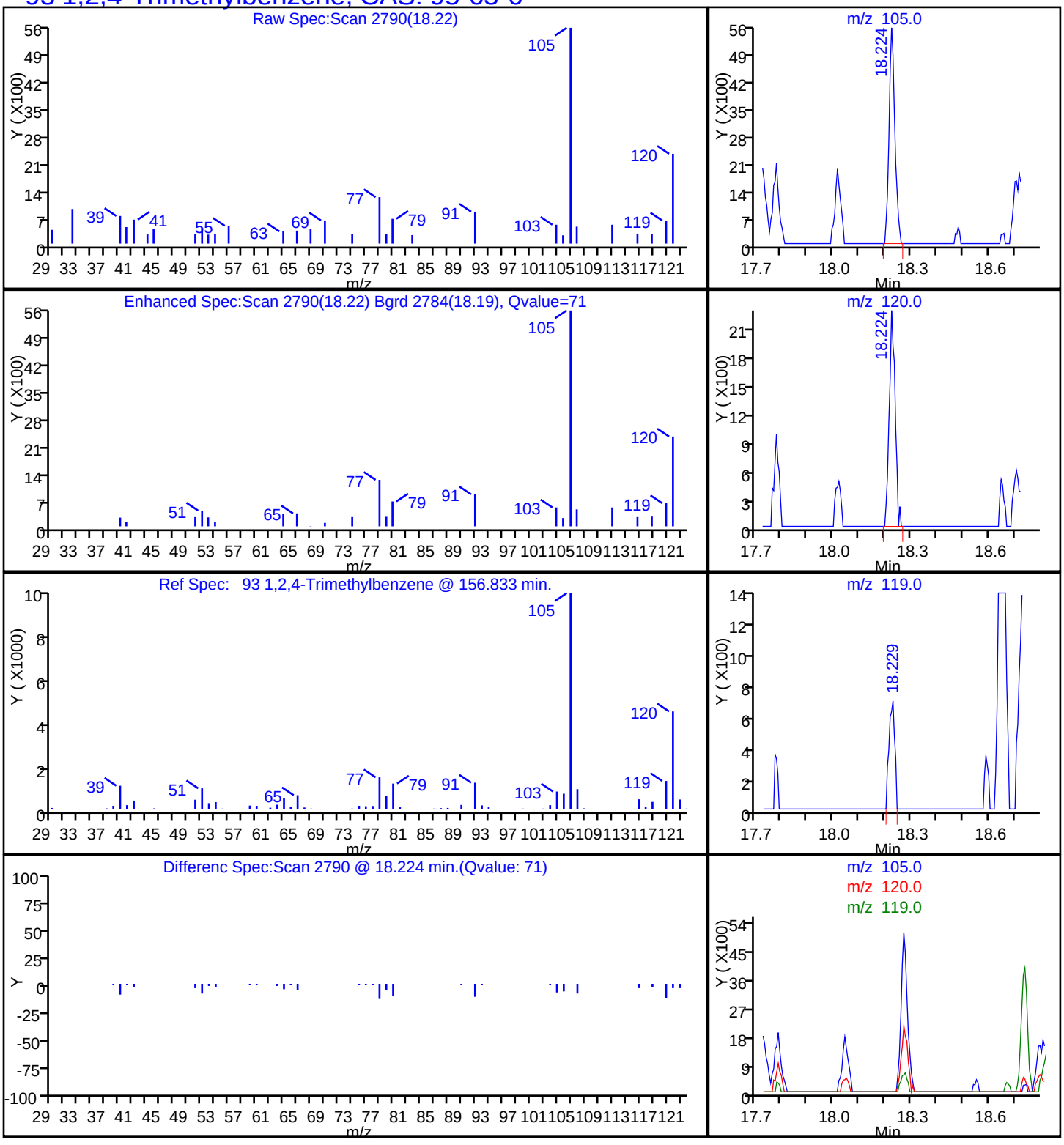
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

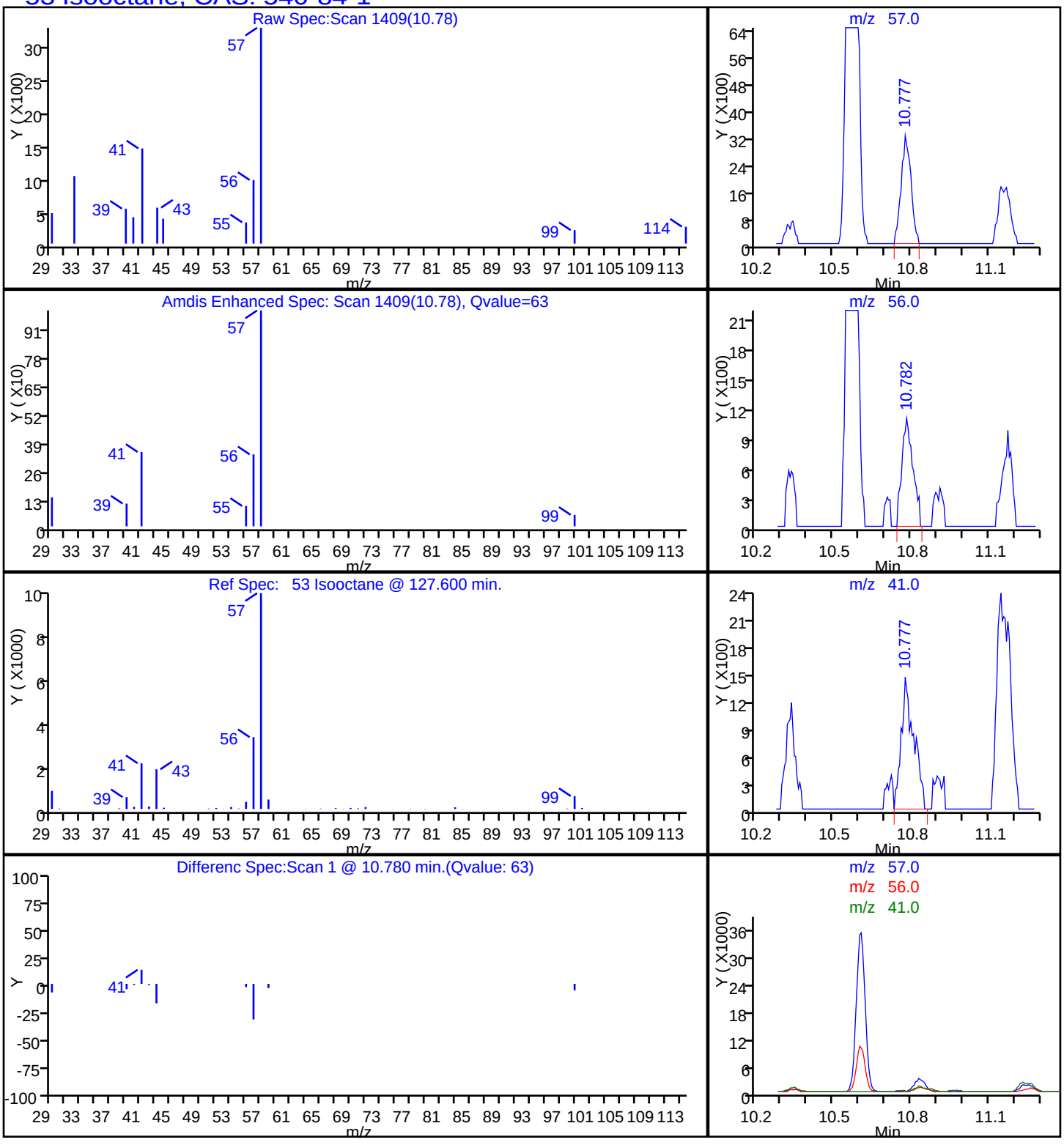


Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



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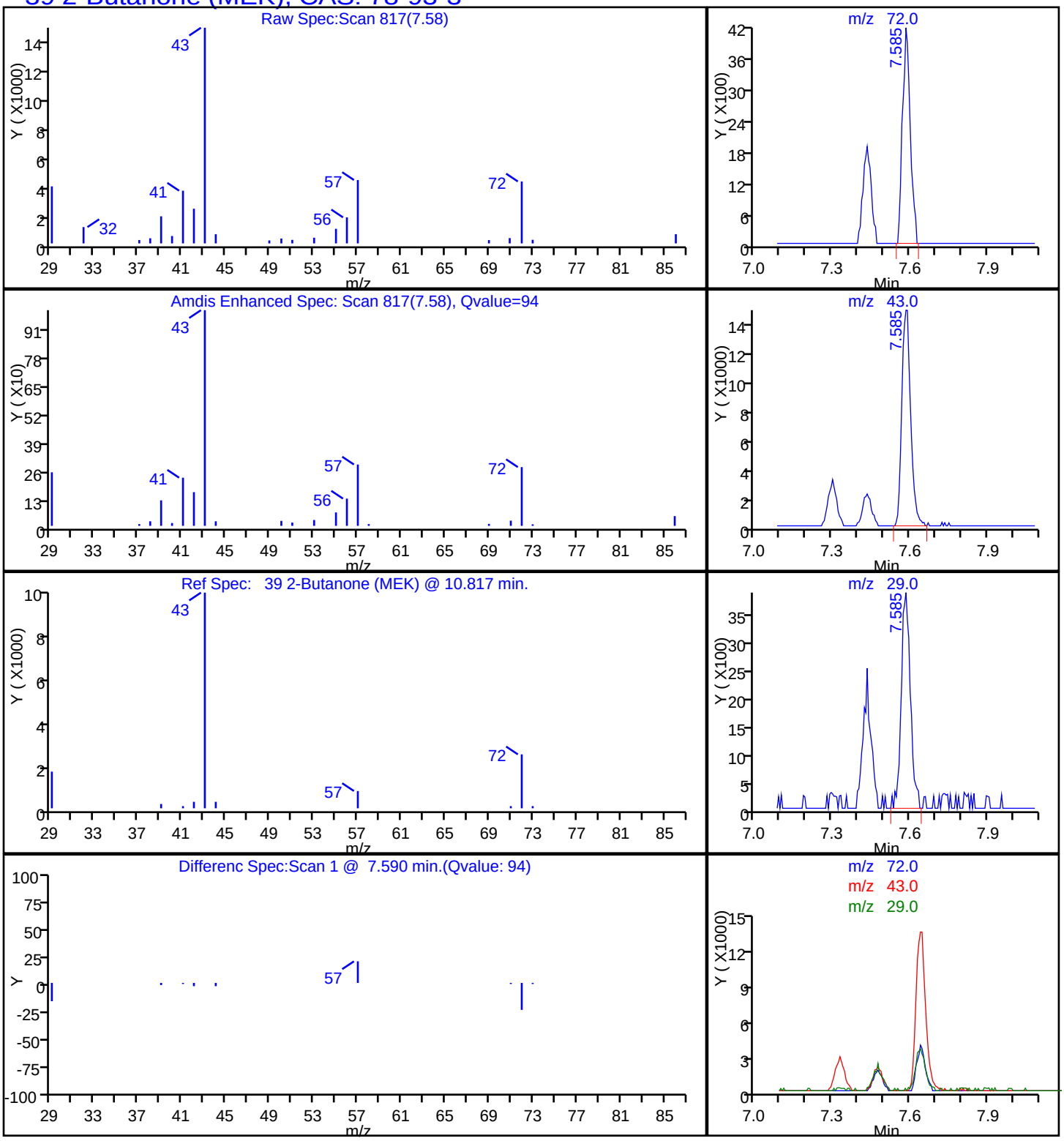
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



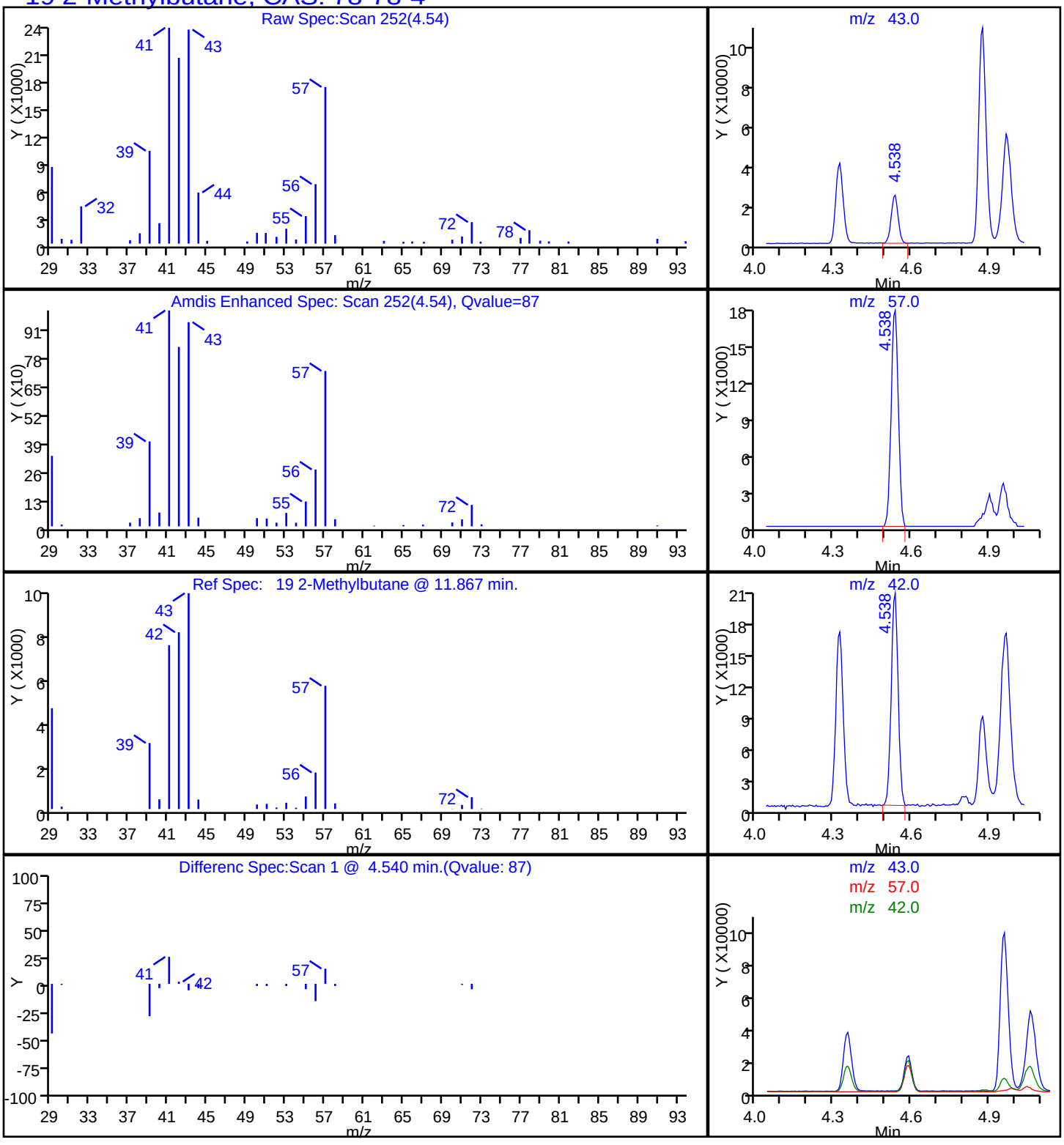
Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



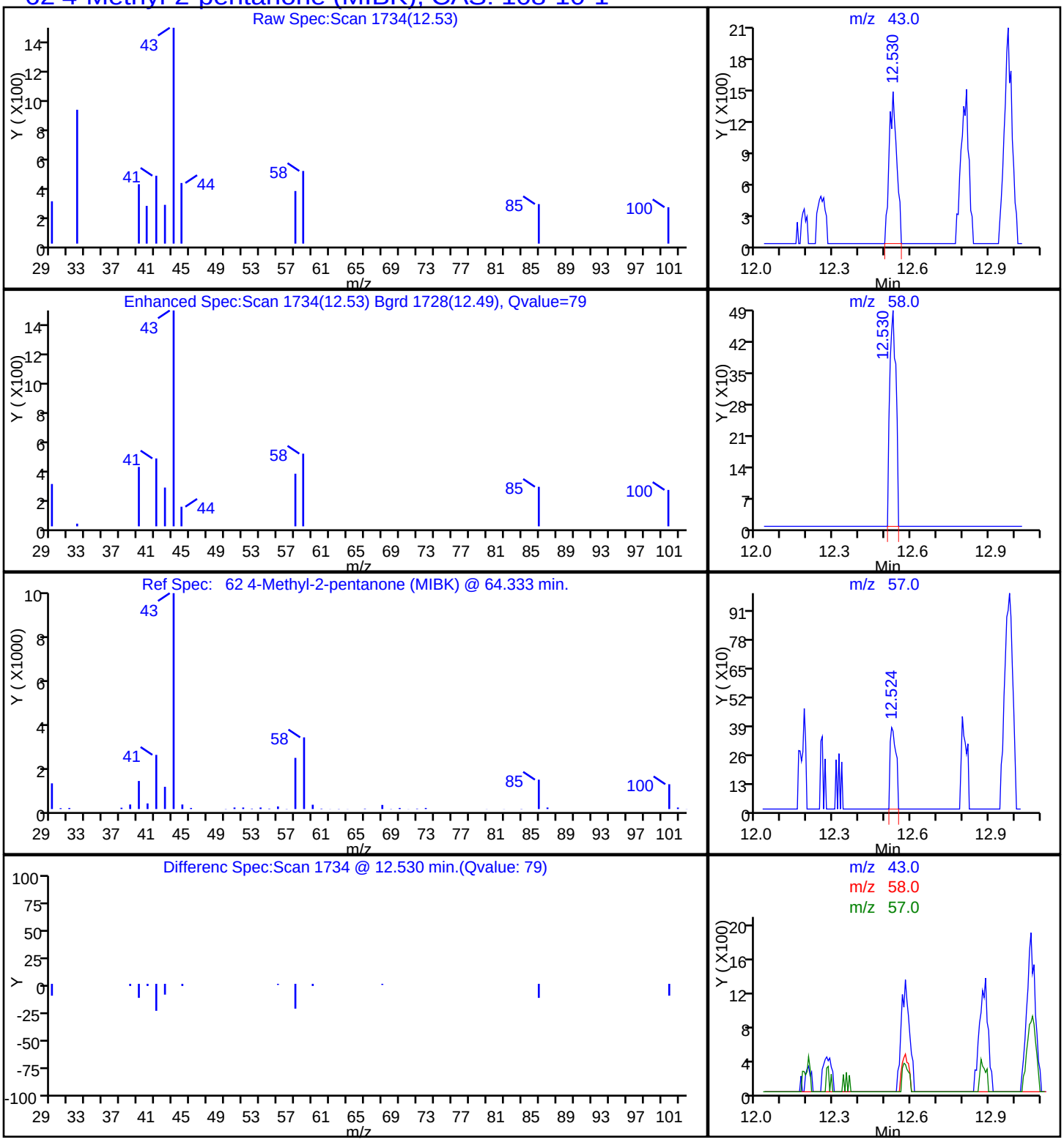
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

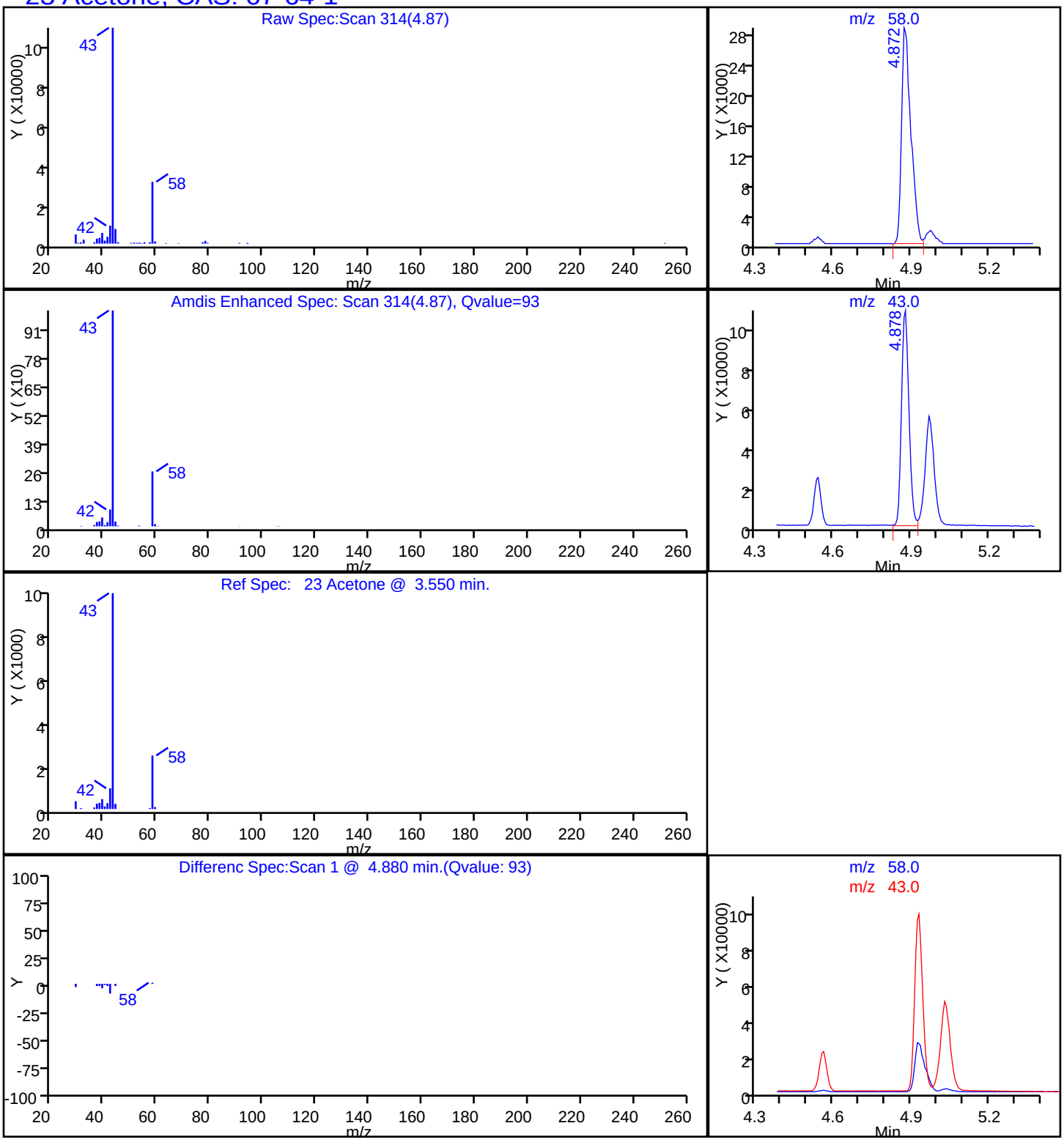


Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

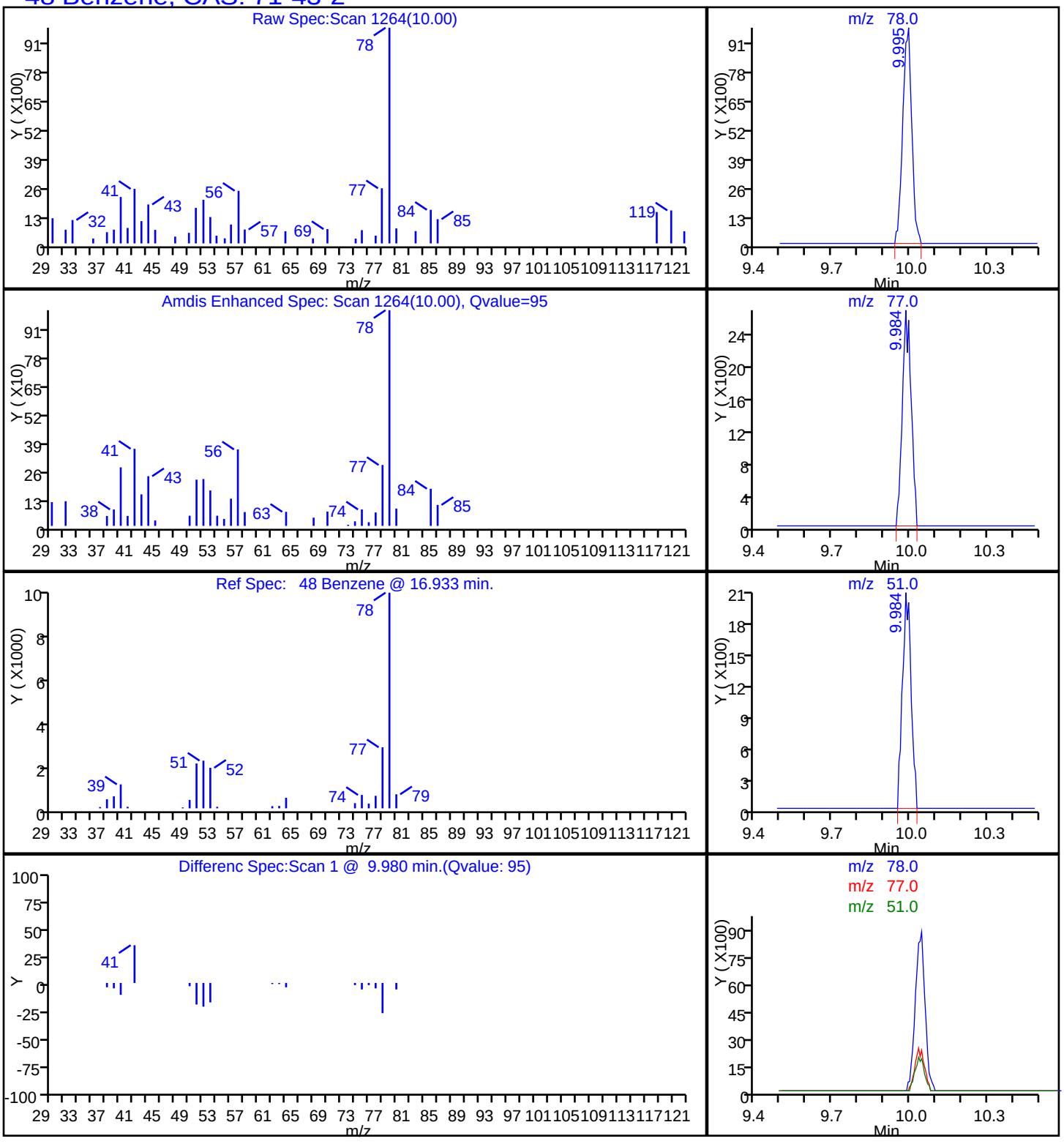


Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

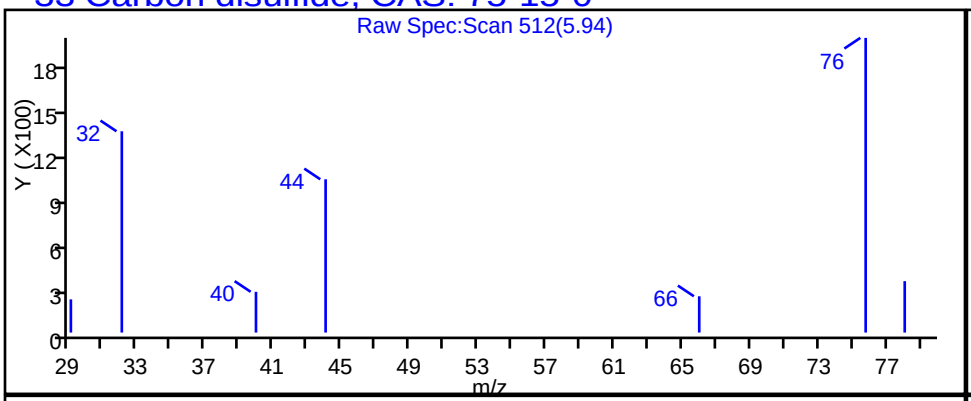
48 Benzene, CAS: 71-43-2

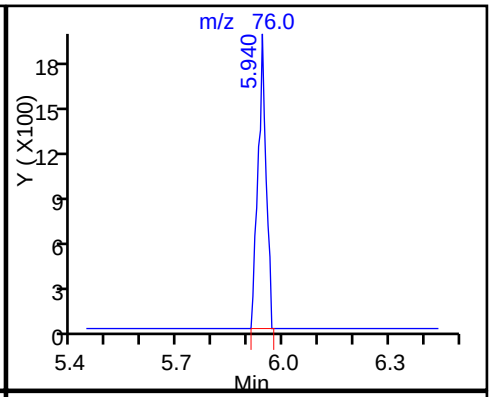


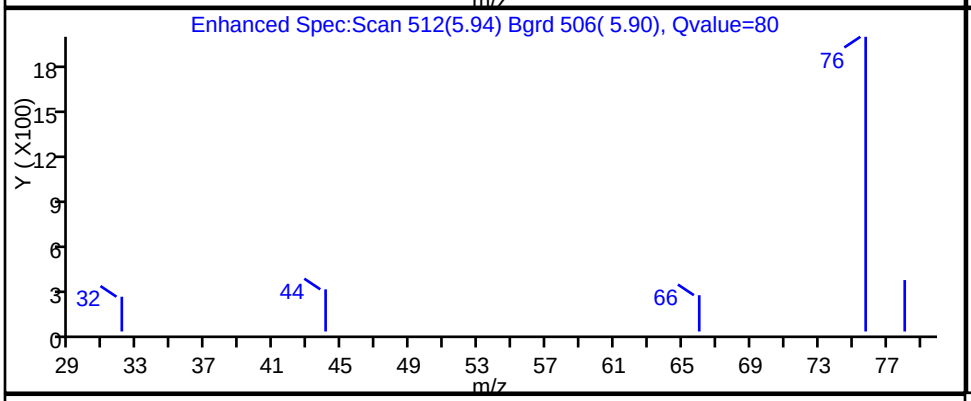
TestAmerica Knoxville

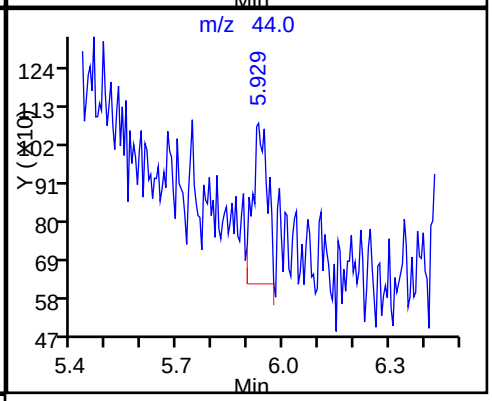
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

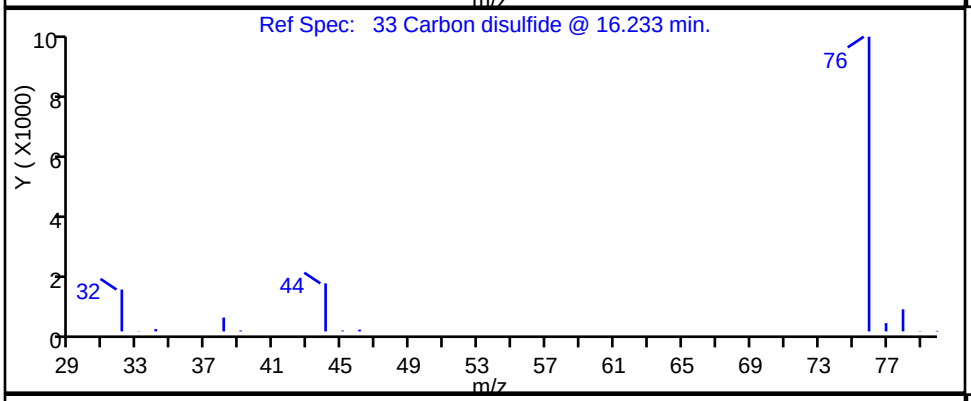
33 Carbon disulfide, CAS: 75-15-0

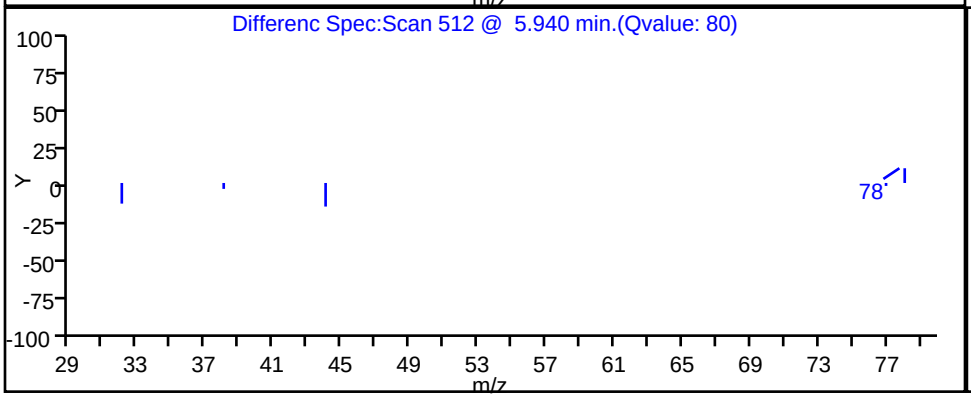


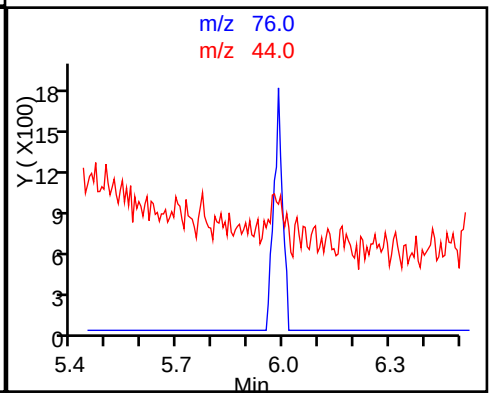












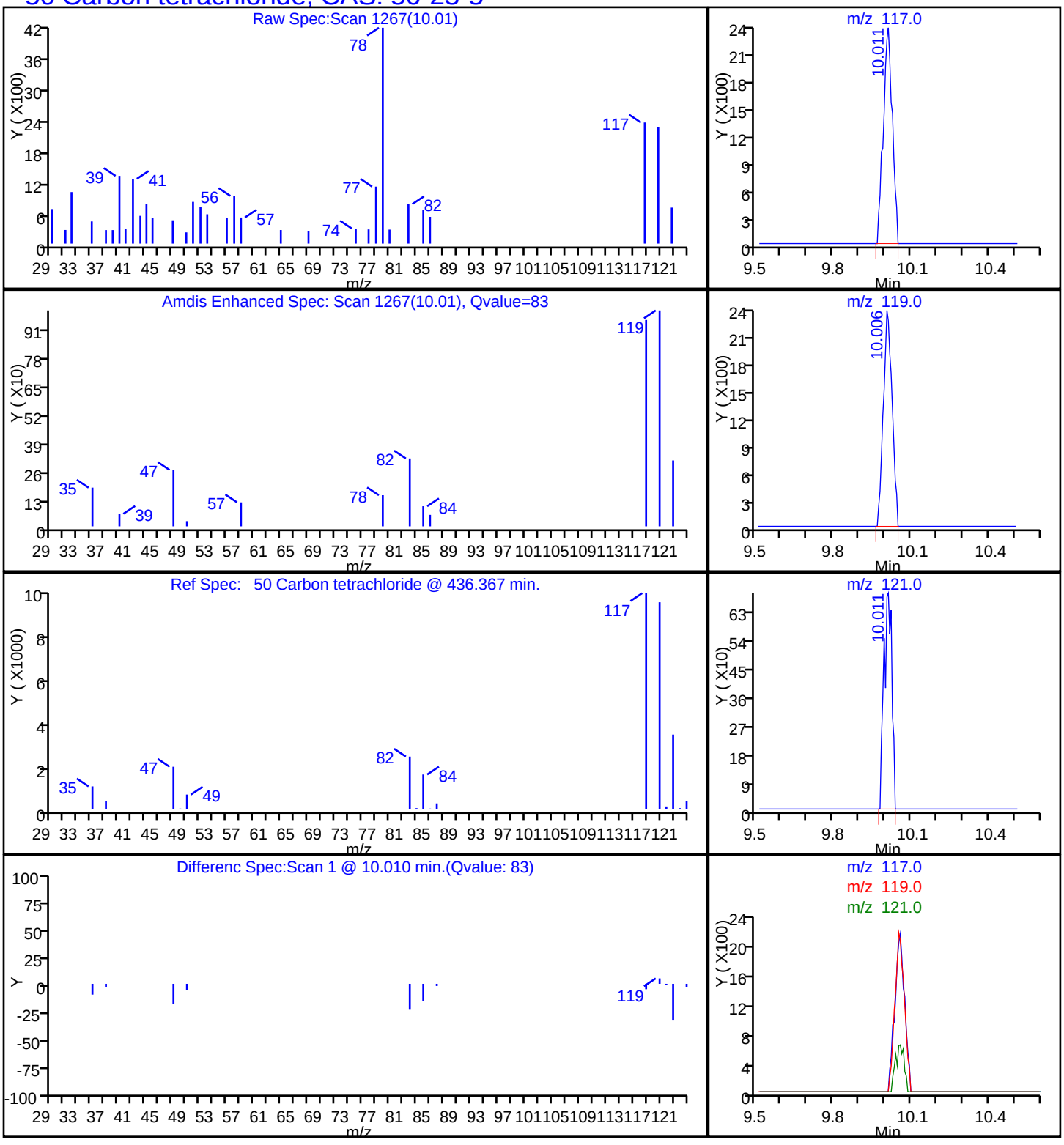
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

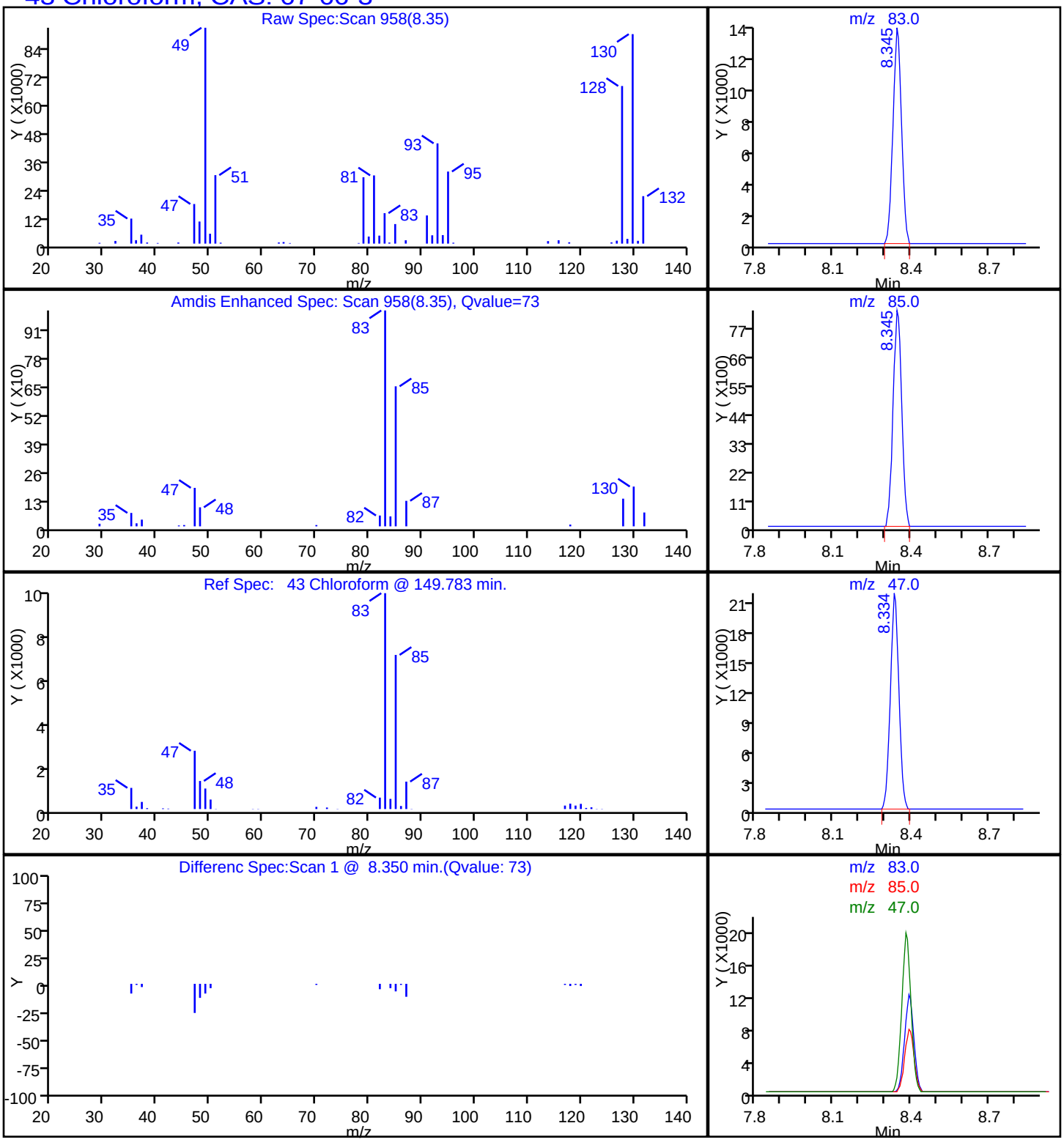


Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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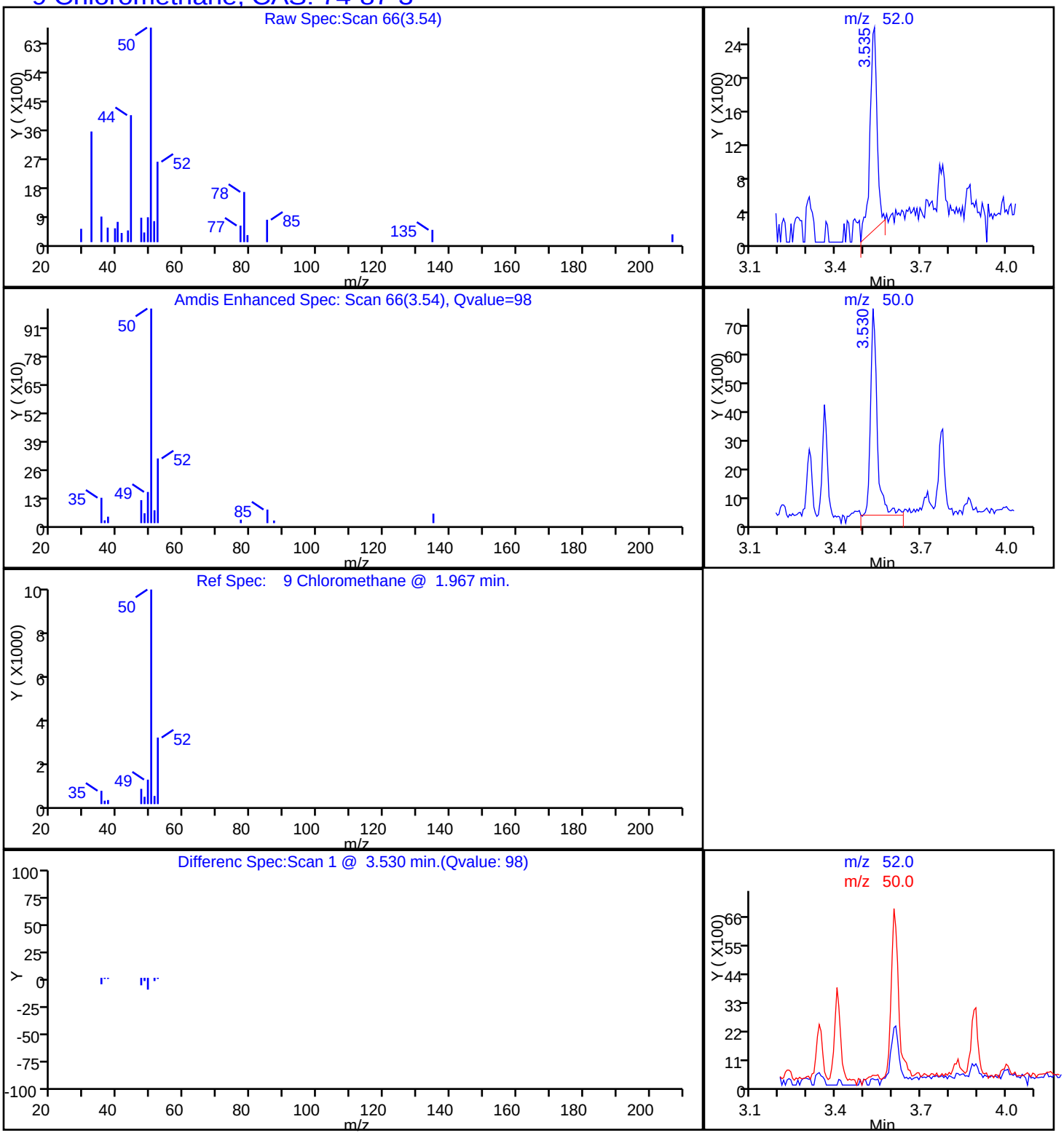
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



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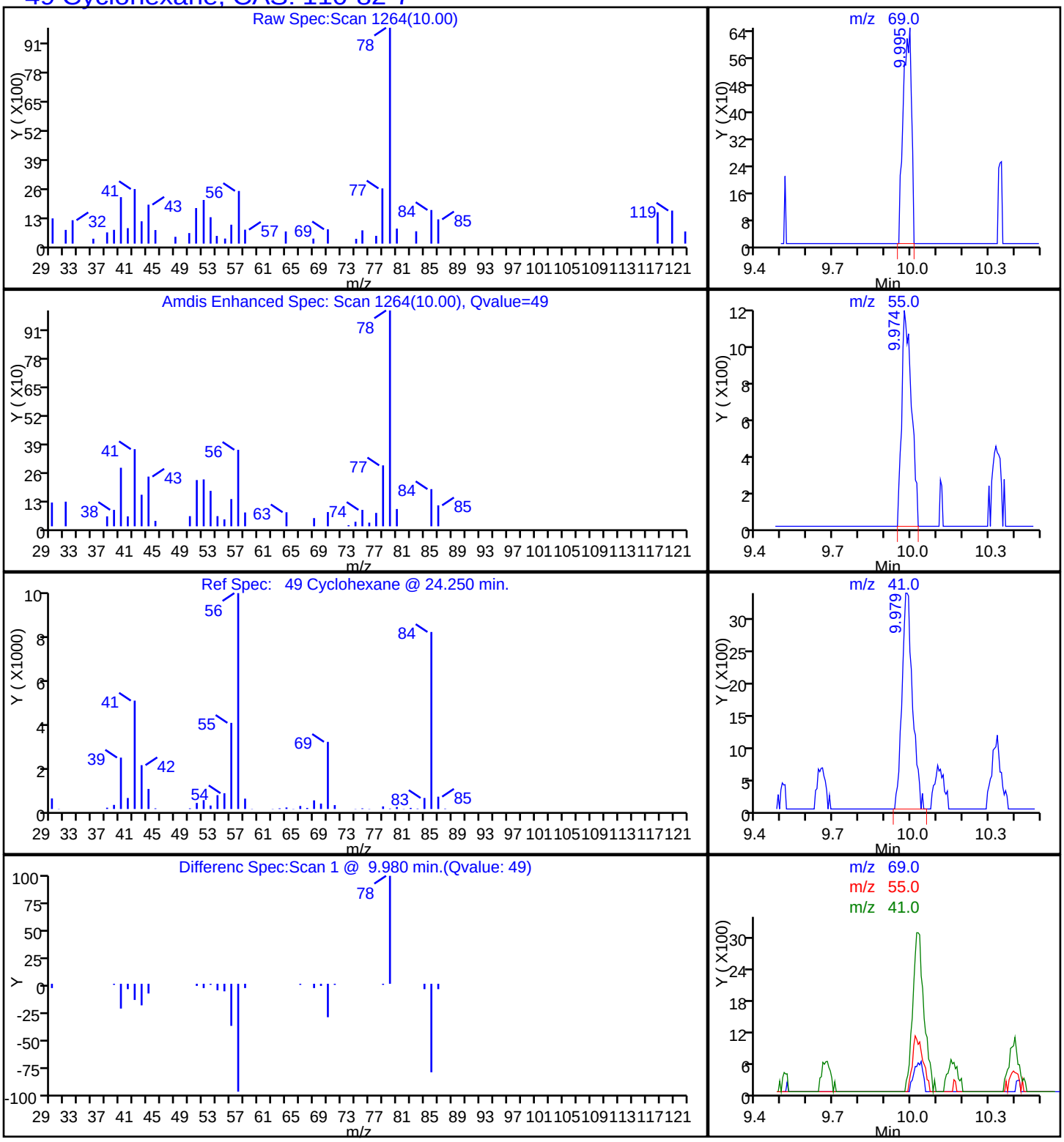
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

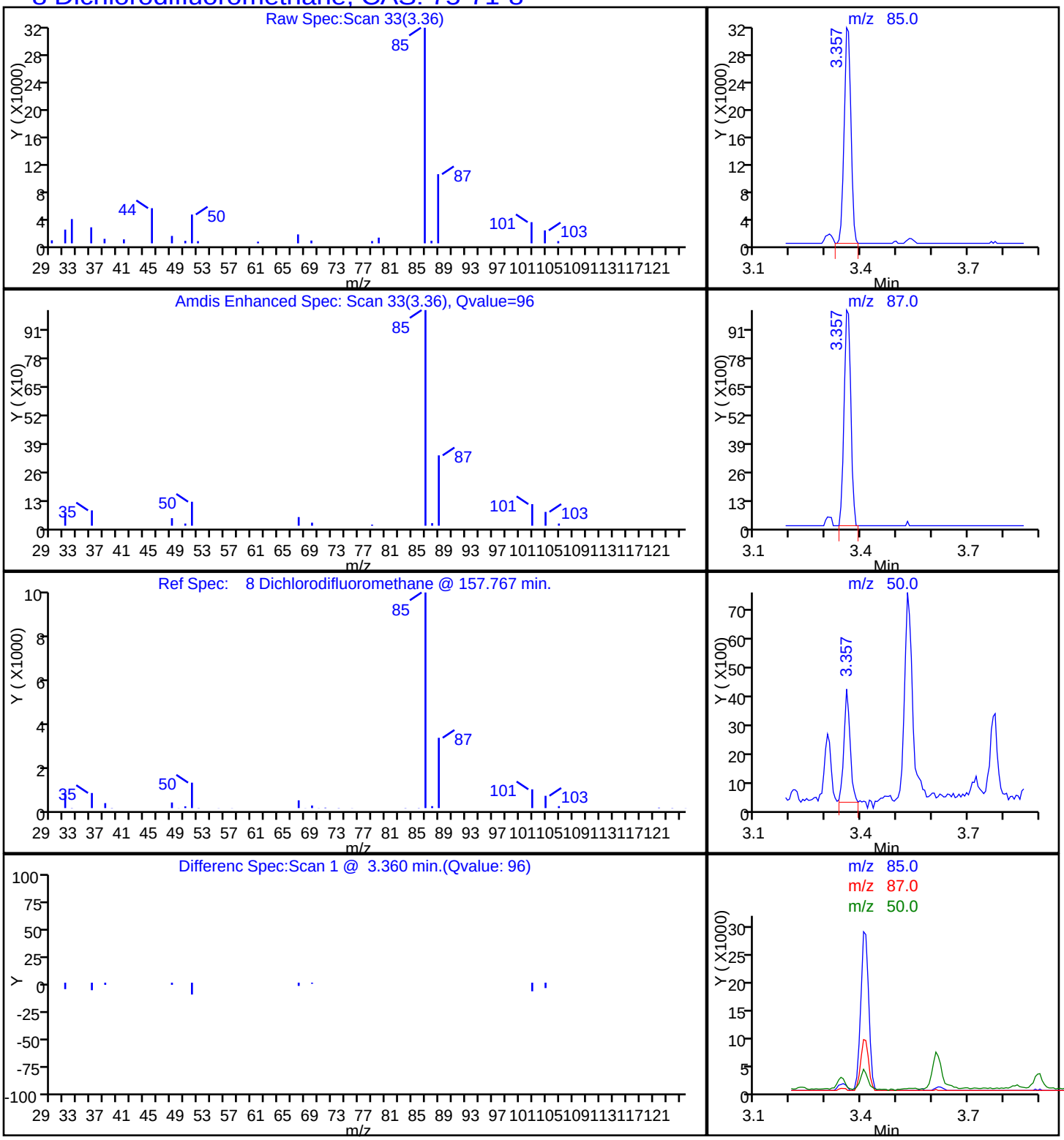
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D				
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME		
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1		
Client ID:	PCV-IA1-B1				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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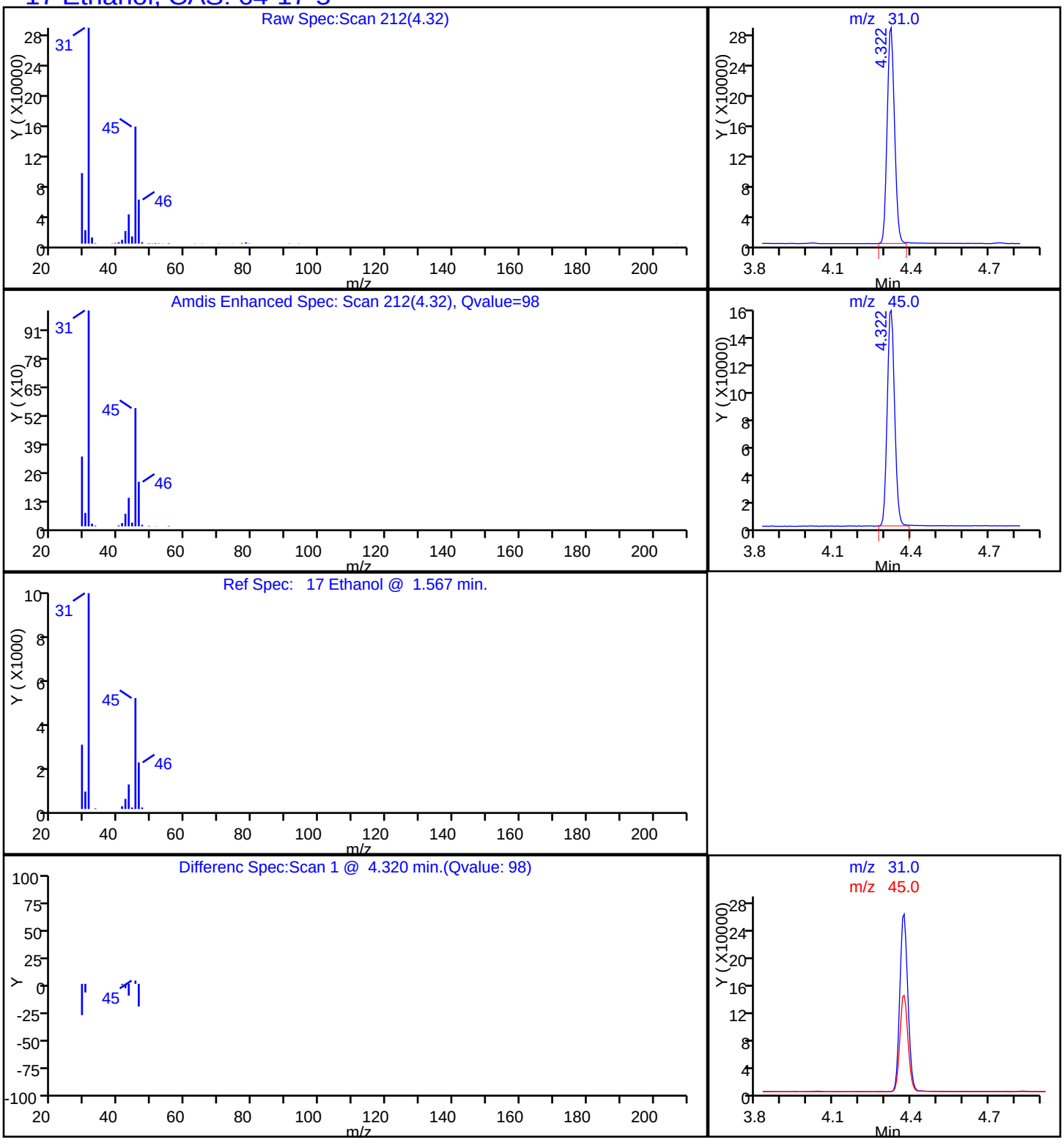
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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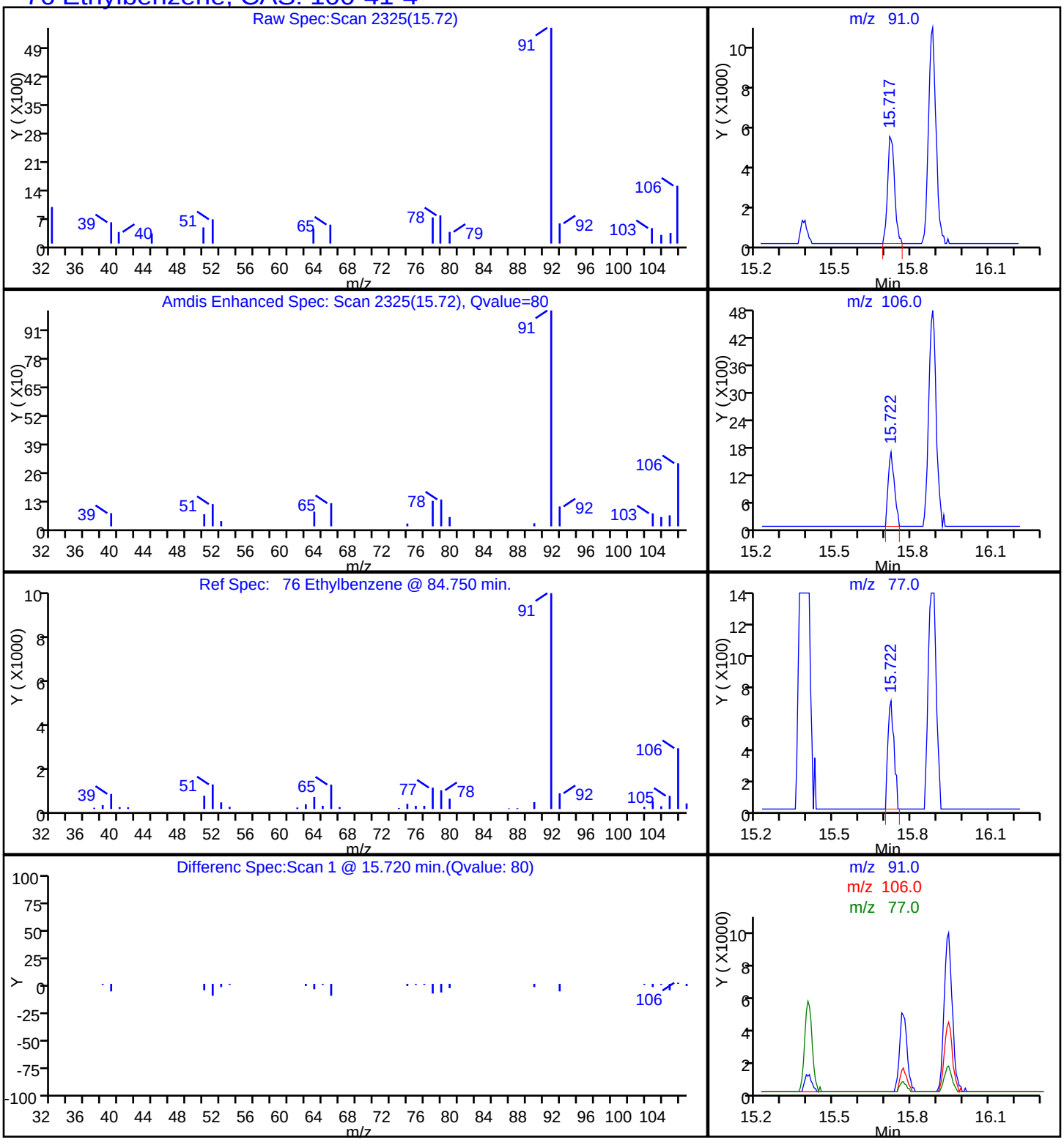
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



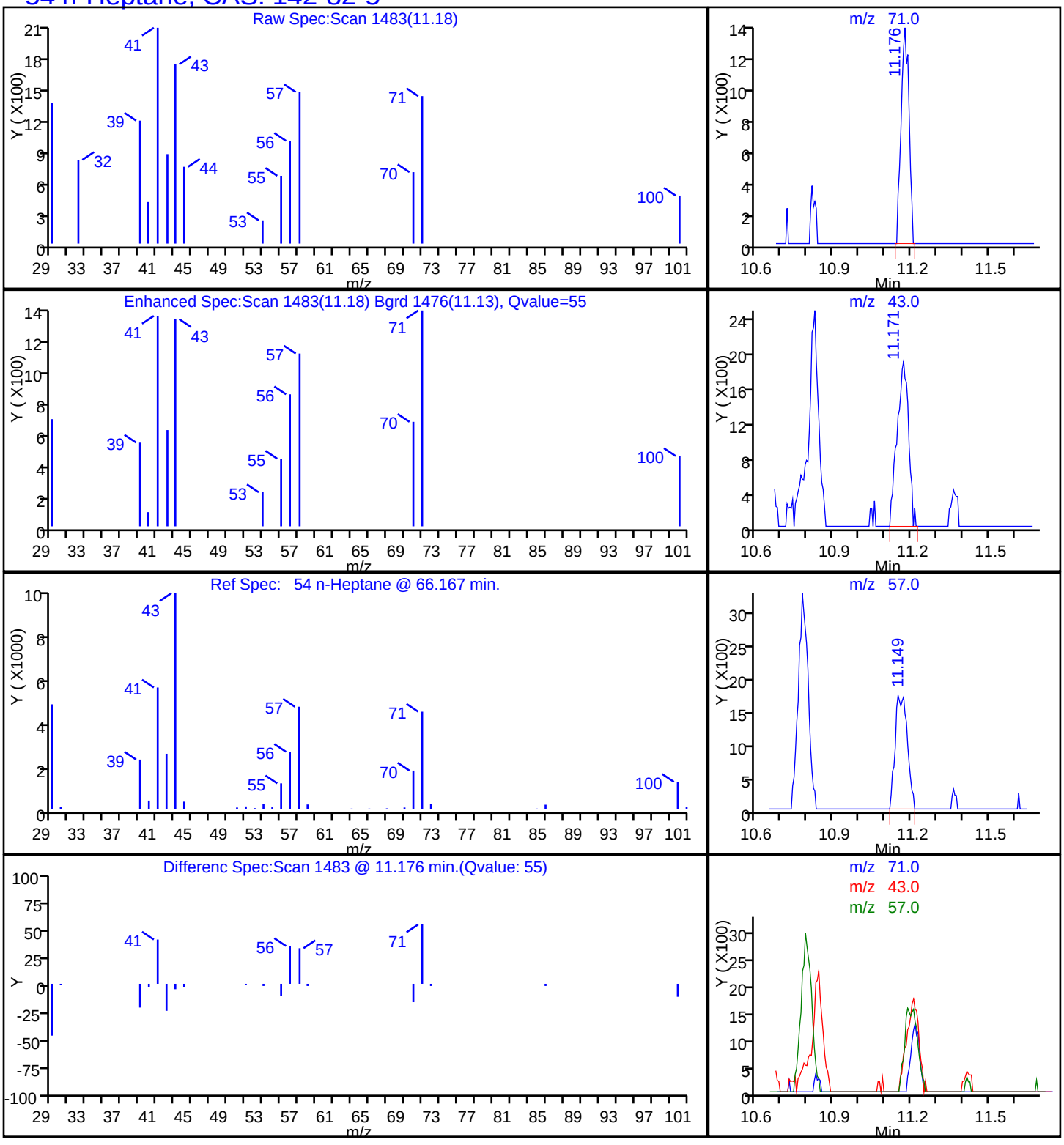
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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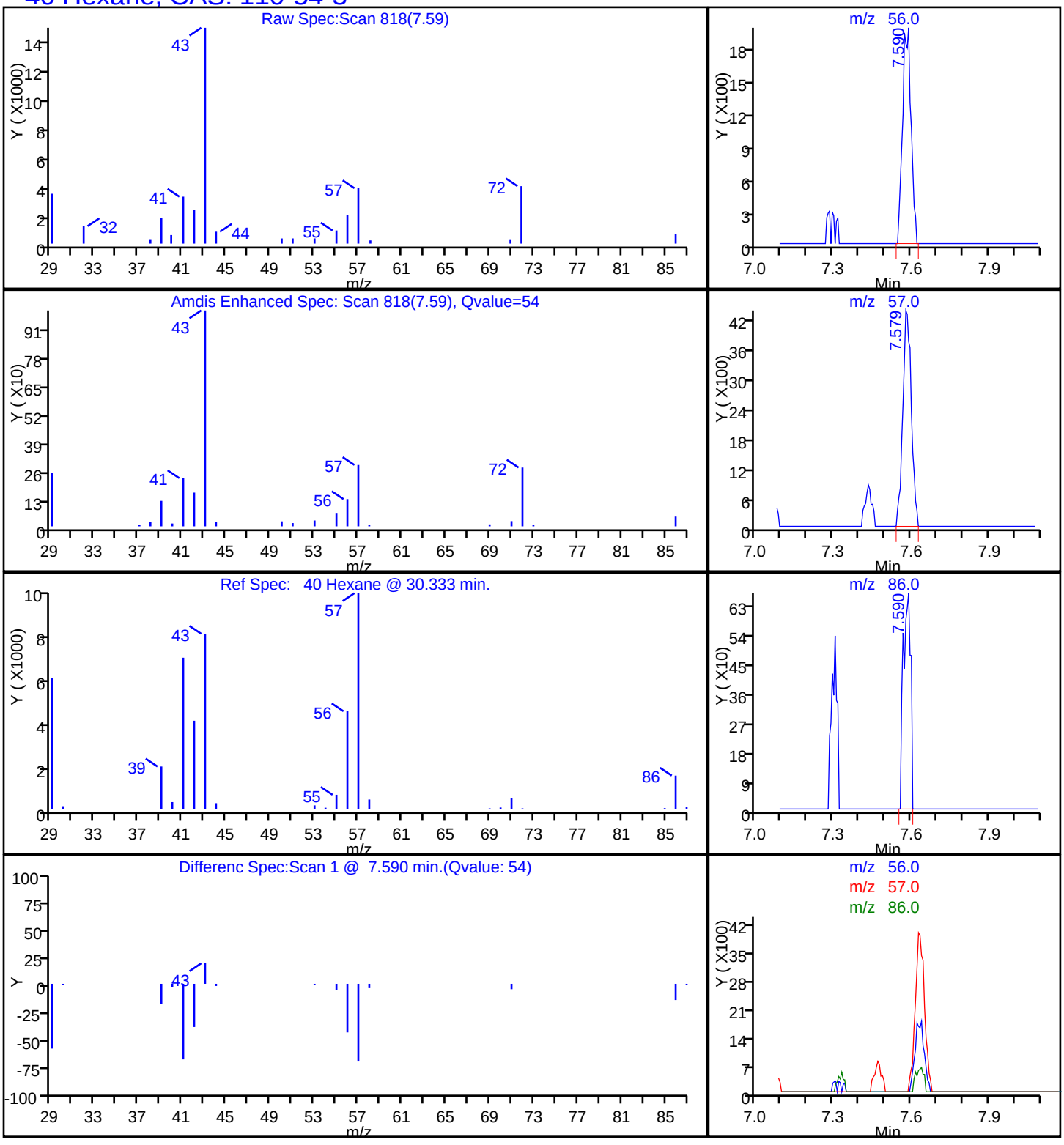
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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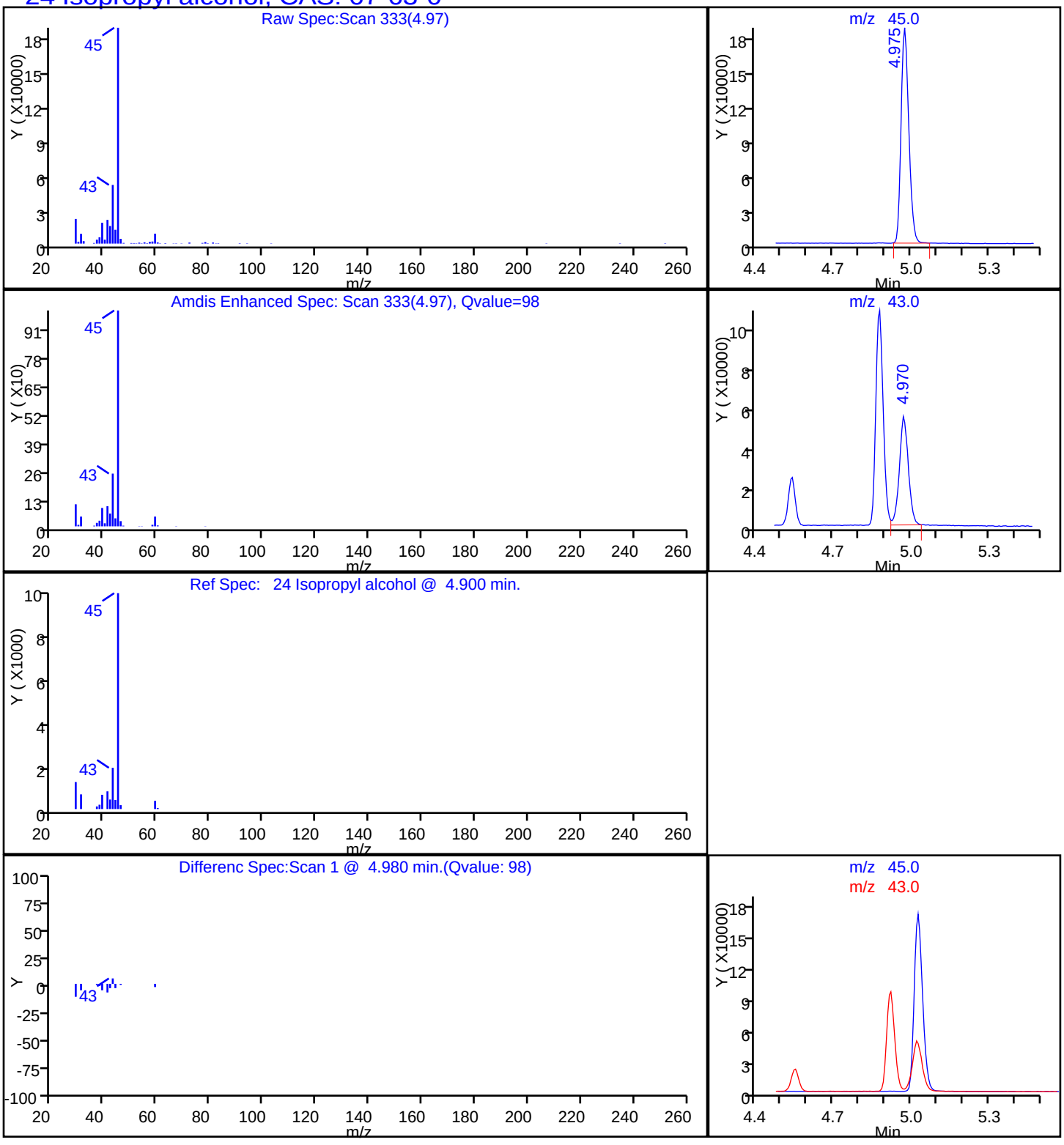
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

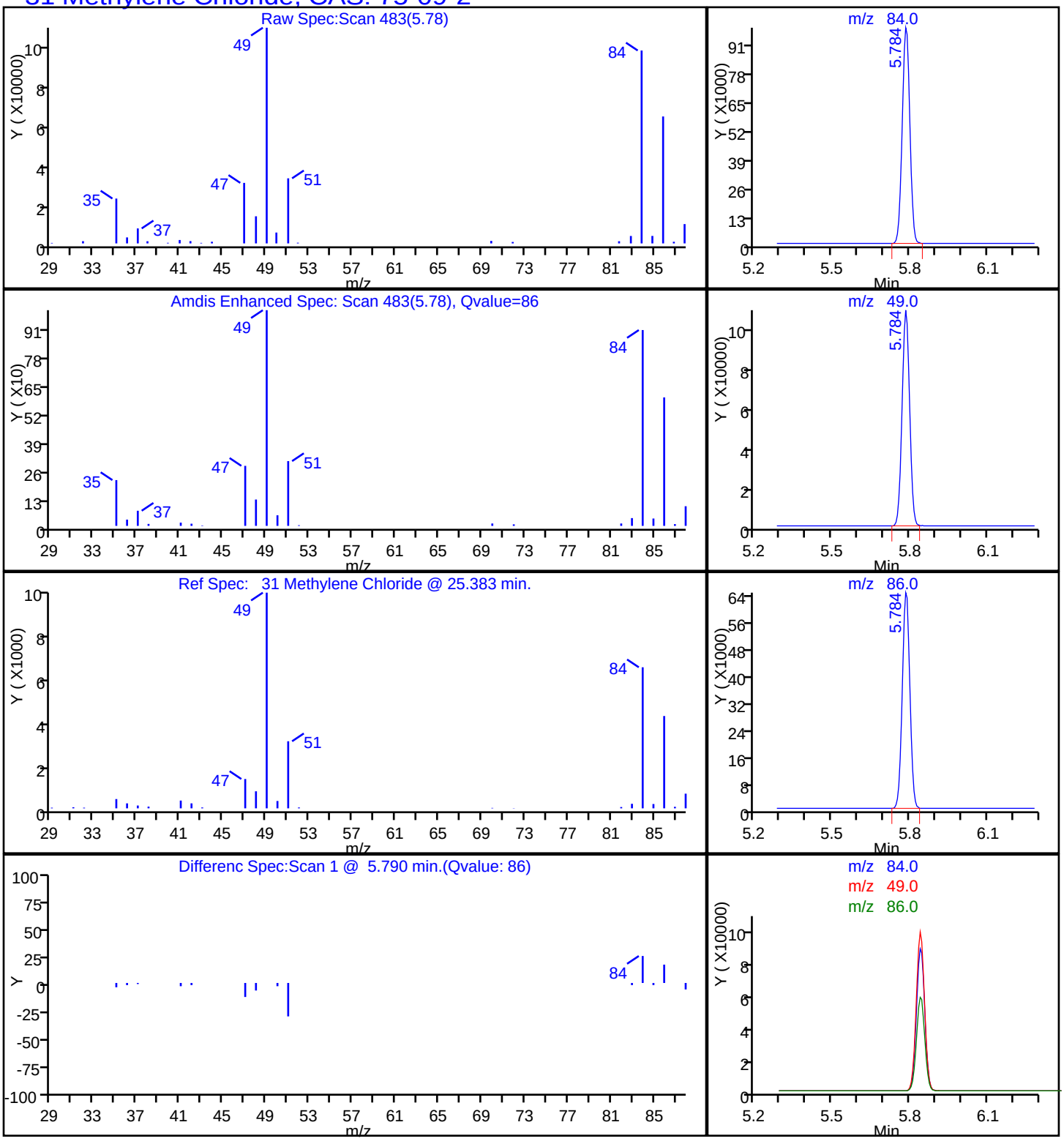


Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

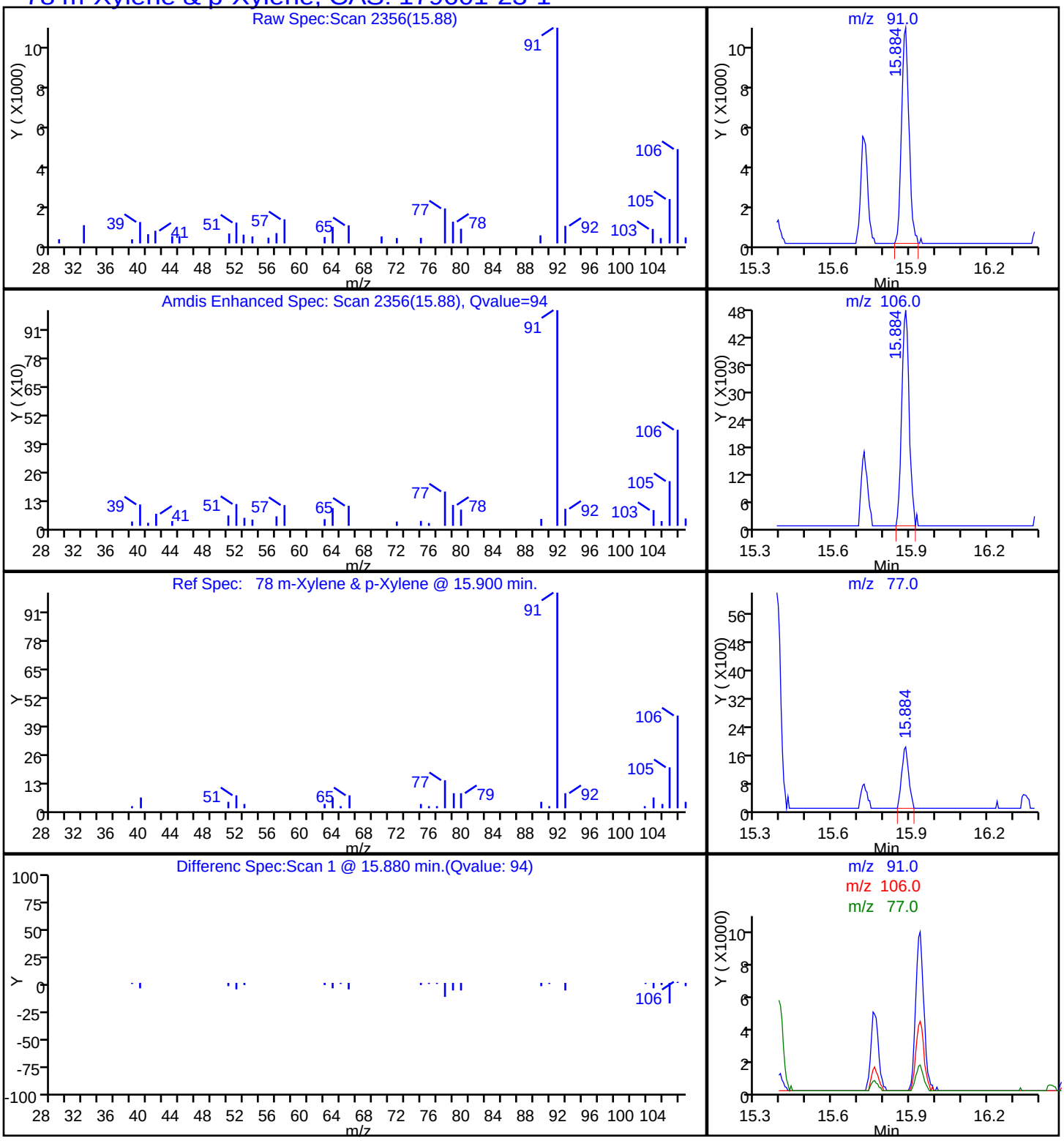


Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D				
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME		
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1		
Client ID:	PCV-IA1-B1				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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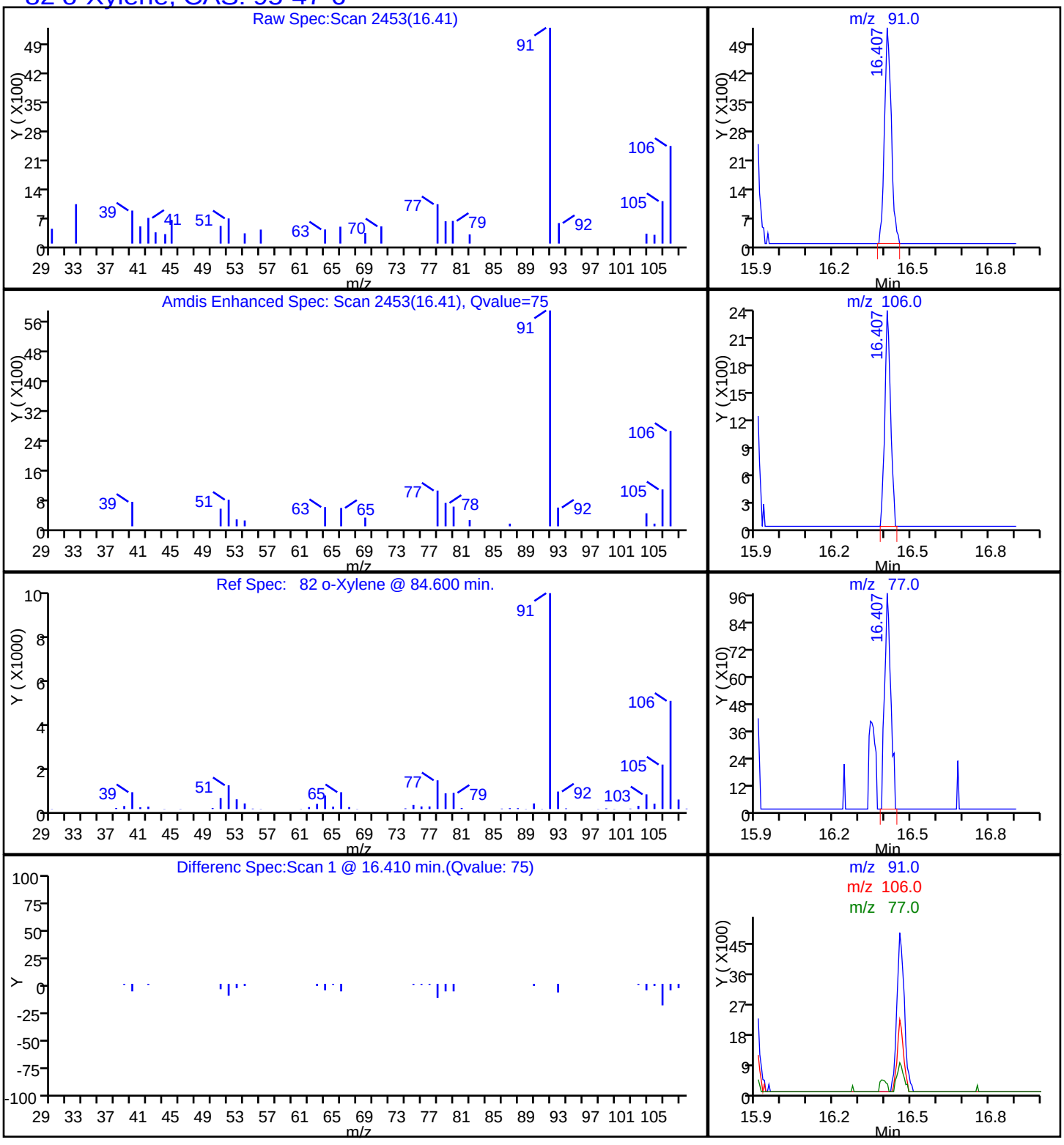
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME		
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1		
Client ID:	PCV-IA1-B1				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



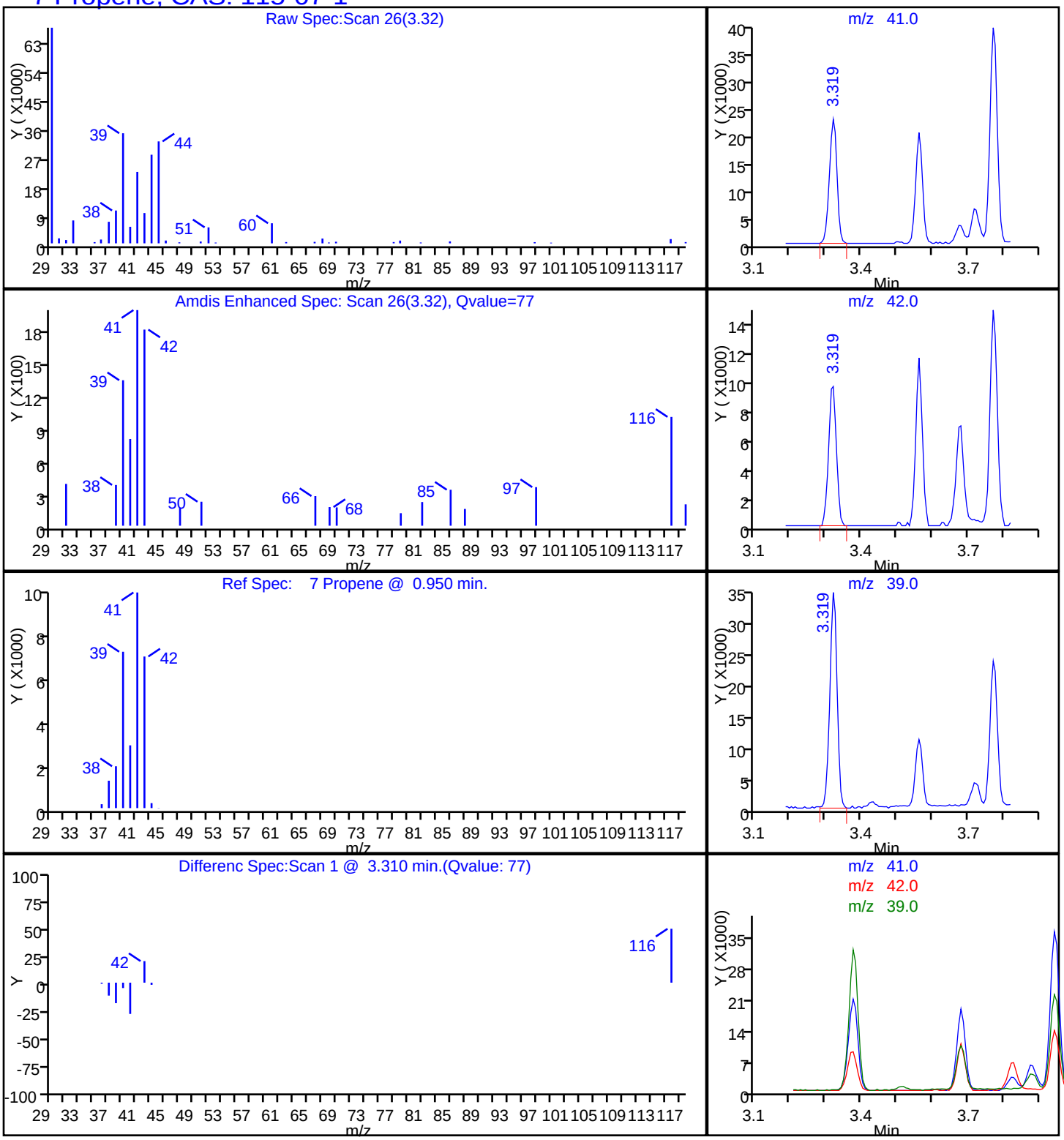
Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



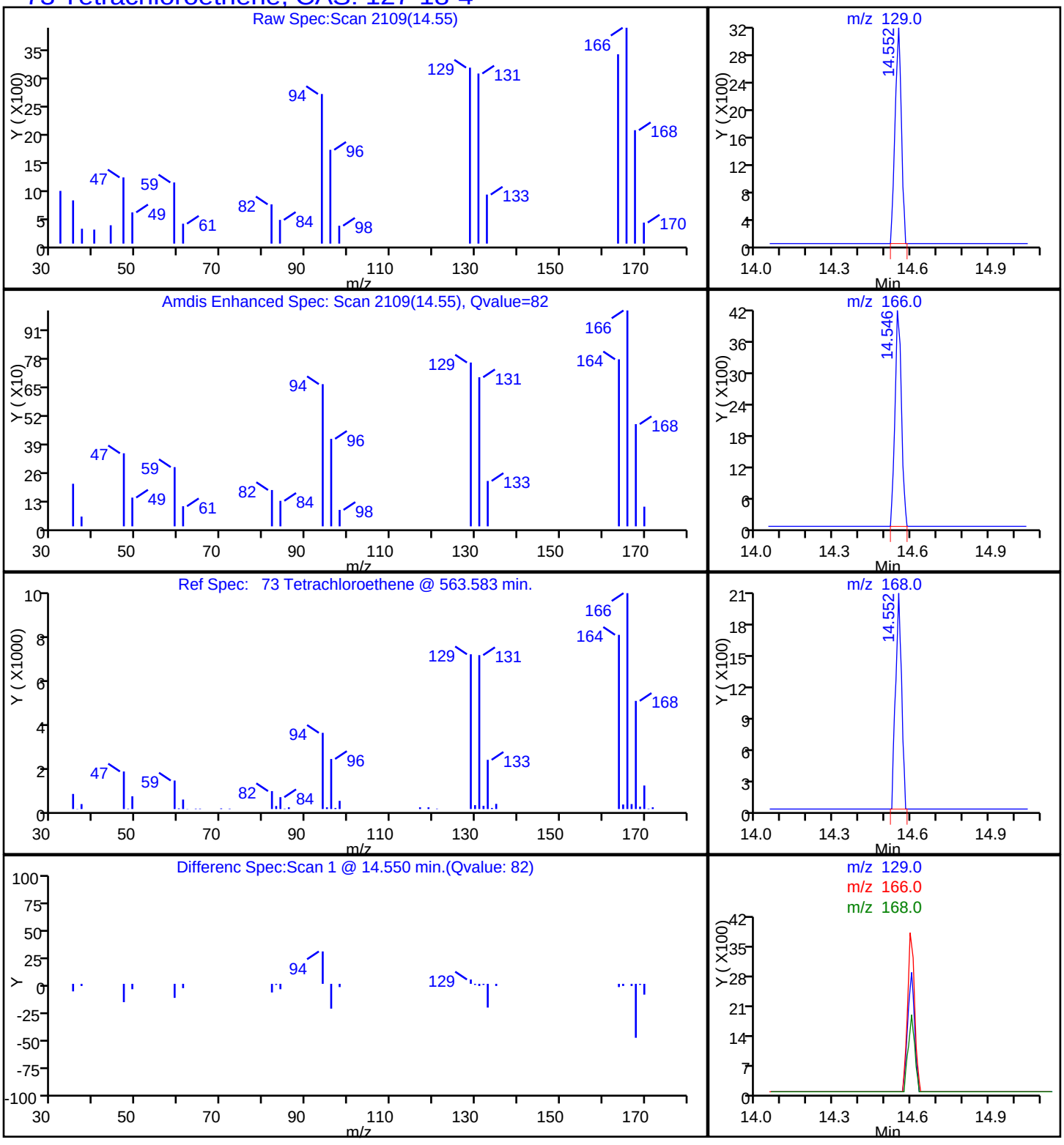
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D

Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

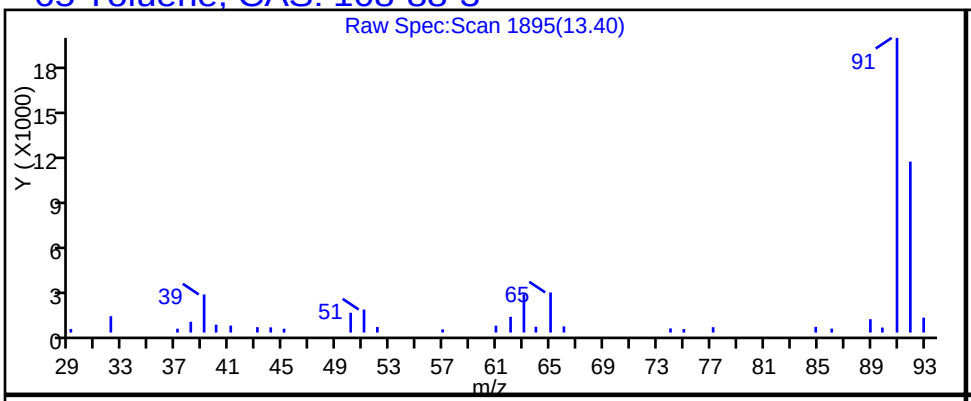


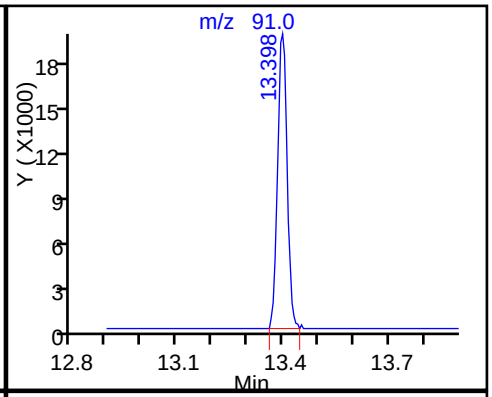
Report Date: 24-Mar-2014 15:46:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

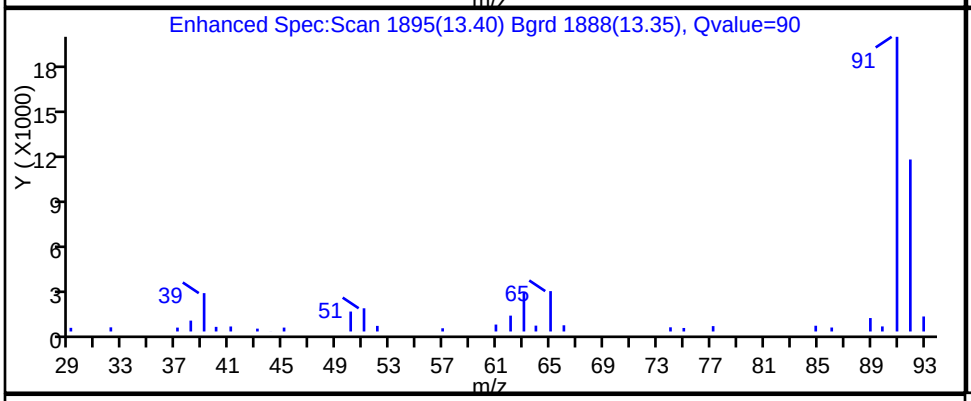
TestAmerica Knoxville

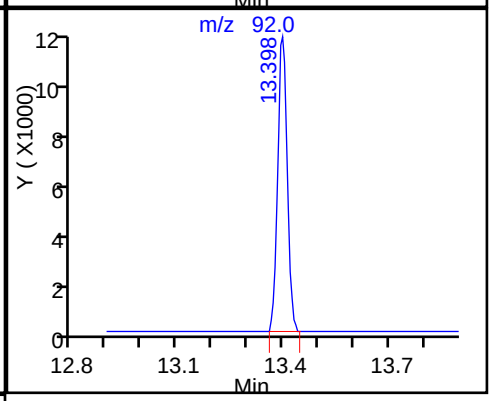
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D				
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME		
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1		
Client ID:	PCV-IA1-B1				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

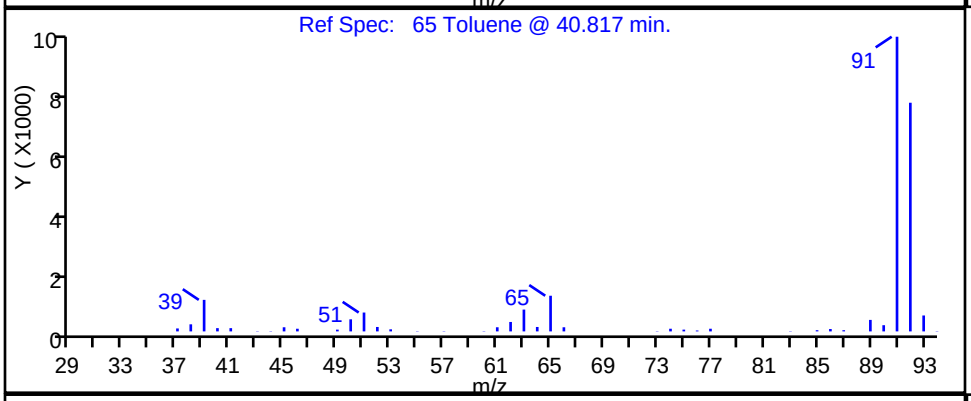
65 Toluene, CAS: 108-88-3

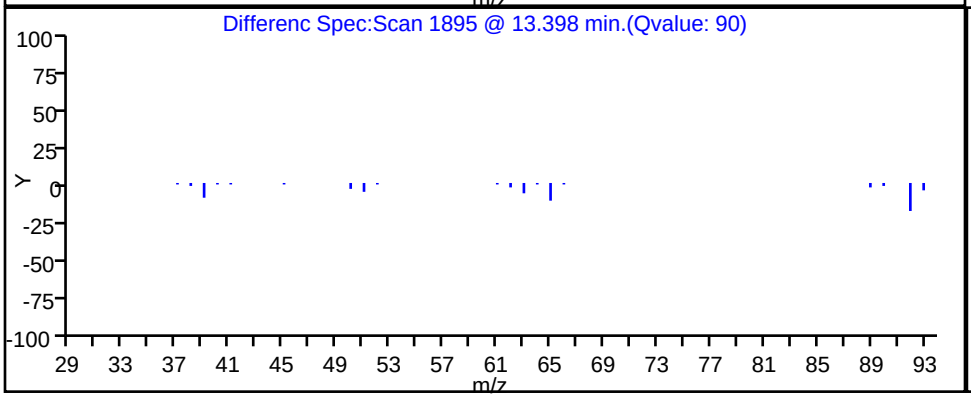


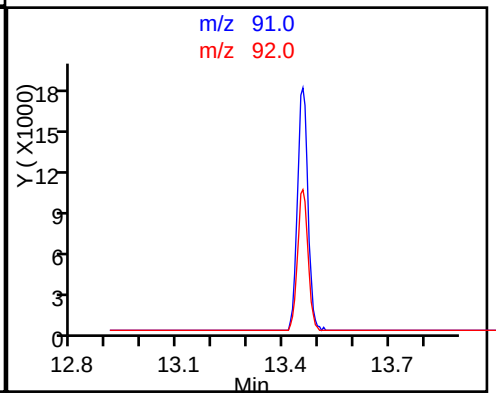










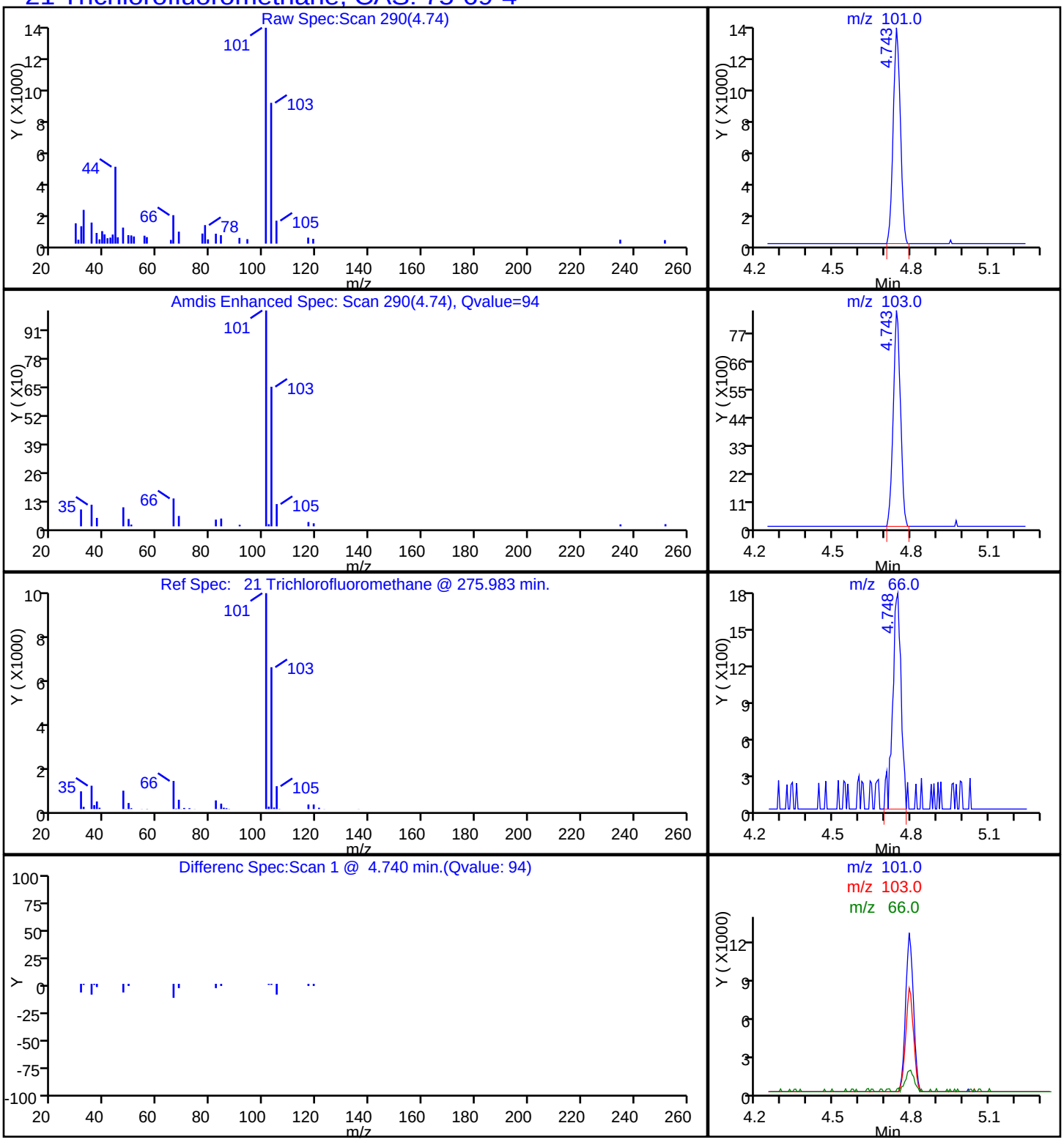


Report Date: 24-Mar-2014 15:46:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P101.D		
Injection Date:	14-Mar-2014 14:54:30	Instrument ID:	ME
Lims ID:	140-1041-A-1	Lab Sample ID:	140-1041-1
Client ID:	PCV-IA1-B1		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.031	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.077	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.085	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.079	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.079	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.65	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.4		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.29	J	0.50	0.045
67-64-1	Acetone	58.08	5.9		5.0	1.4
71-43-2	Benzene	78.11	0.31		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.081	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.088	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.34		0.20	0.038
74-87-3	Chloromethane	50.49	0.63		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.088	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	84		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.10	J	0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.24	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	3.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.76		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.26		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.10	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.12	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.42		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.17	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.59	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.42	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.47	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.37	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.9	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	7.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	1.0		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.25	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.56	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.7		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.30	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	160		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.43	J	0.87	0.30
142-82-5	Heptane	100.21	0.44	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.84	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	8.0		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.6		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.45	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.83	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B1 Lab Sample ID: 140-1041-2

Matrix: Air Lab File ID: EC14P102.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 15:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D
Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2
Client ID: PCV-IA2-B1
Sample Type: Client
Inject. Date: 14-Mar-2014 15:40:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-2
Misc. Info.: E031414,TO155,,140-0000522-007
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:23:31 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:23:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	82	188611	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	866513	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	838209	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	781027	4.26	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	100	42134	0.2019	
9 Chloromethane	52	3.530	3.530	0.0	99	4215	0.2531	M
17 Ethanol	31	4.317	4.317	0.0	98	633613	33.6	
19 2-Methylbutane	43	4.538	4.538	0.0	86	63184	0.9566	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	26636	0.1273	
23 Acetone	58	4.872	4.883	-0.011	93	67544	2.36	
24 Isopropyl alcohol	45	4.975	4.975	0.0	94	95478	1.30	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	64	3985	0.0308	
31 Methylene Chloride	84	5.789	5.795	-0.006	78	16356	0.3035	
33 Carbon disulfide	76	5.935	5.940	-0.005	82	6287	0.0322	
39 2-Butanone (MEK)	72	7.579	7.585	-0.006	93	7983	0.2586	
40 Hexane	56	7.585	7.590	-0.005	56	4786	0.0954	
43 Chloroform	83	8.345	8.356	-0.011	60	22000	0.1361	
45 1,1,1-Trichloroethane	97	9.375	9.380	-0.005	7	2293	0.0125	
49 Cyclohexane	69	9.990	9.984	0.006	43	1148	0.0351	
48 Benzene	78	9.990	9.995	-0.005	95	21968	0.1260	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	89	5921	0.0353	
53 Isooctane	57	10.782	10.788	-0.006	80	8554	0.0318	
54 n-Heptane	71	11.176	11.182	-0.006	60	2866	0.0434	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	90	11919	0.1161	
65 Toluene	91	13.398	13.403	-0.005	92	37796	0.1683	
73 Tetrachloroethene	129	14.546	14.552	-0.006	78	4708	0.0492	
76 Ethylbenzene	91	15.722	15.722	0.0	82	11513	0.0400	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	94	23865	0.1054	
82 o-Xylene	91	16.407	16.412	-0.005	79	10239	0.0418	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	72	8718	0.0339	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	75	5181	0.0315	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags

QC Flag Legend

Review Flags
M - Manually Integrated

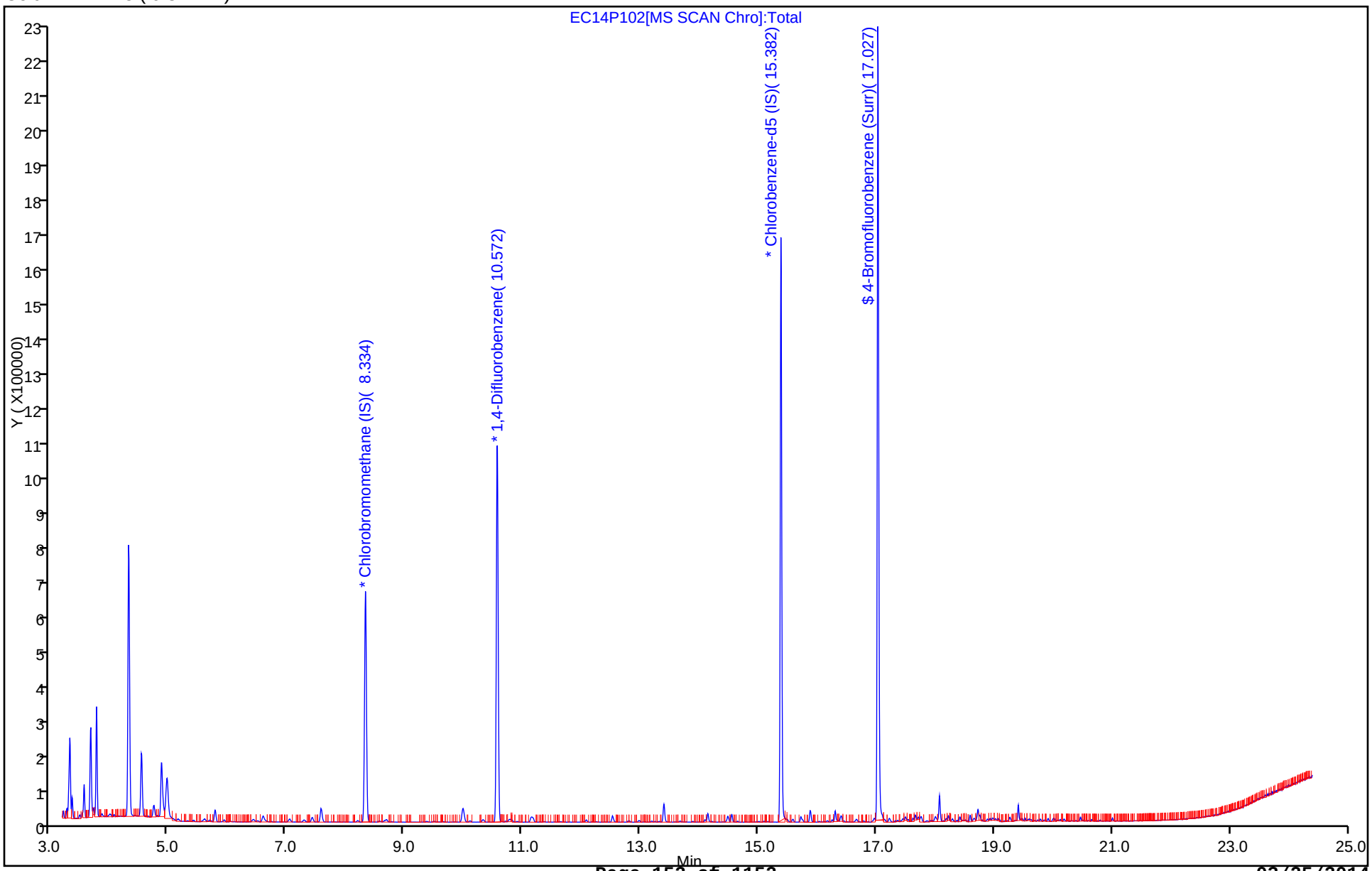
Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2	Worklist Smp#:	7
Client ID:	PCV-IA2-B1				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



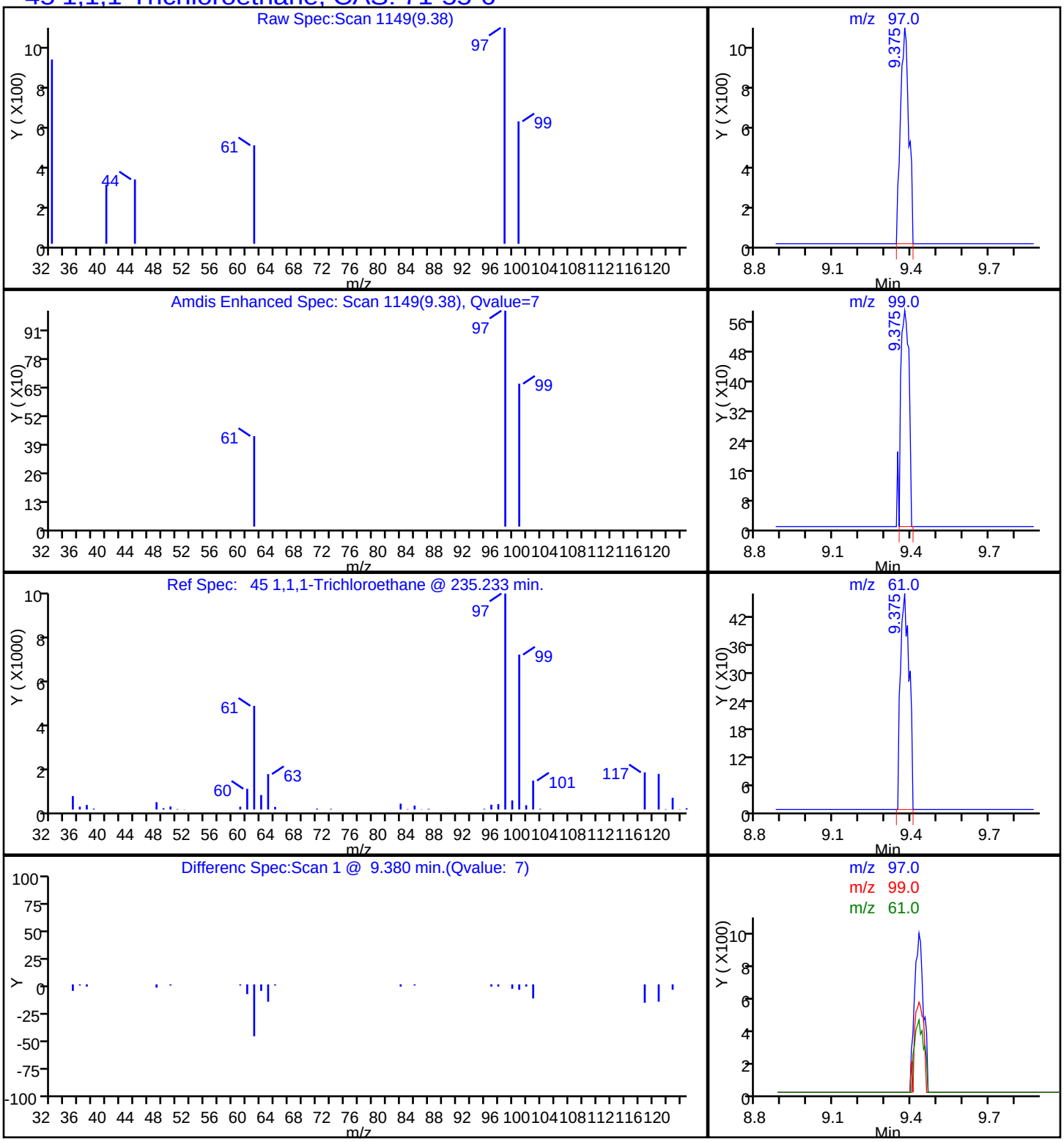
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

45 1,1,1-Trichloroethane, CAS: 71-55-6



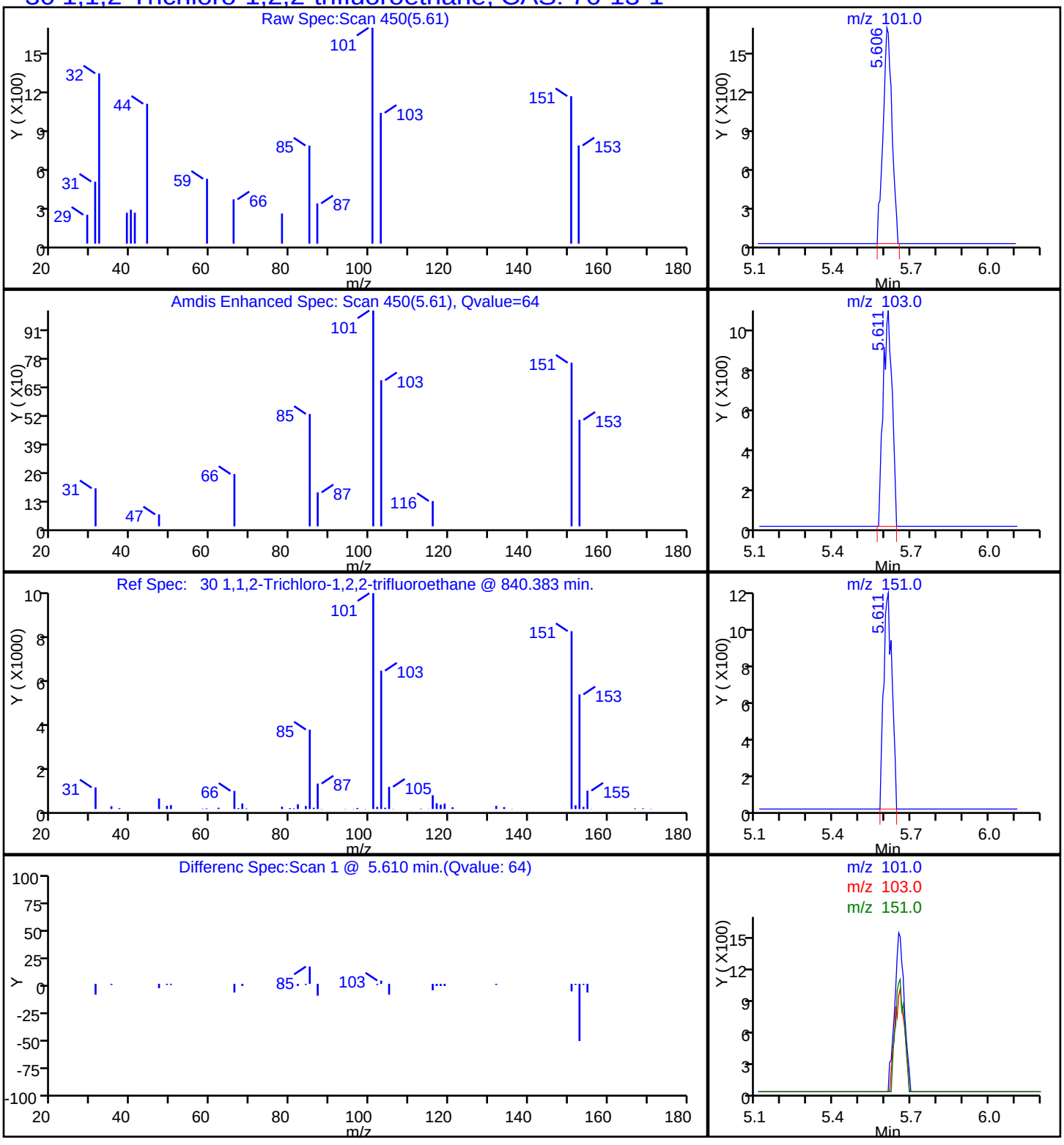
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



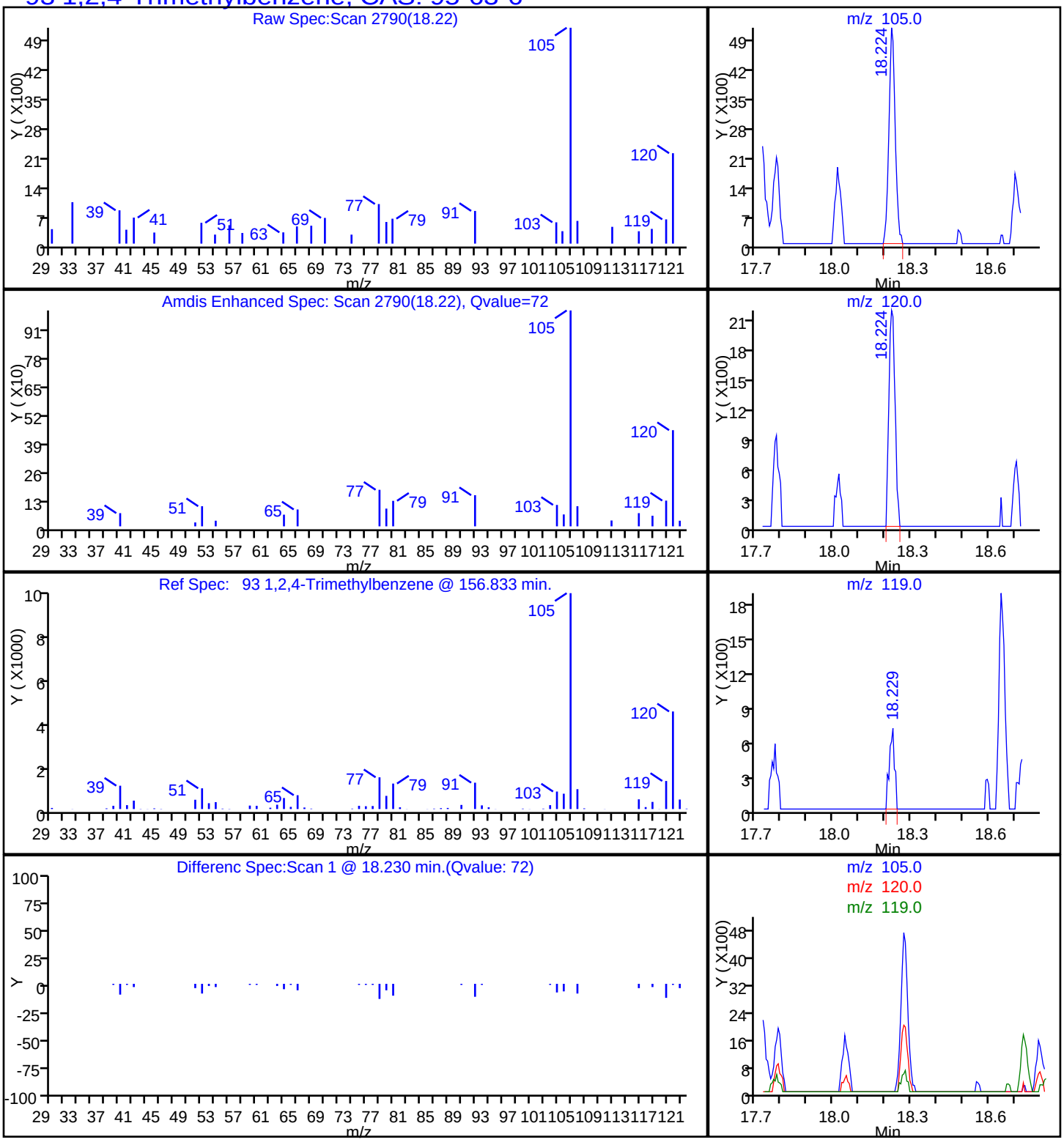
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

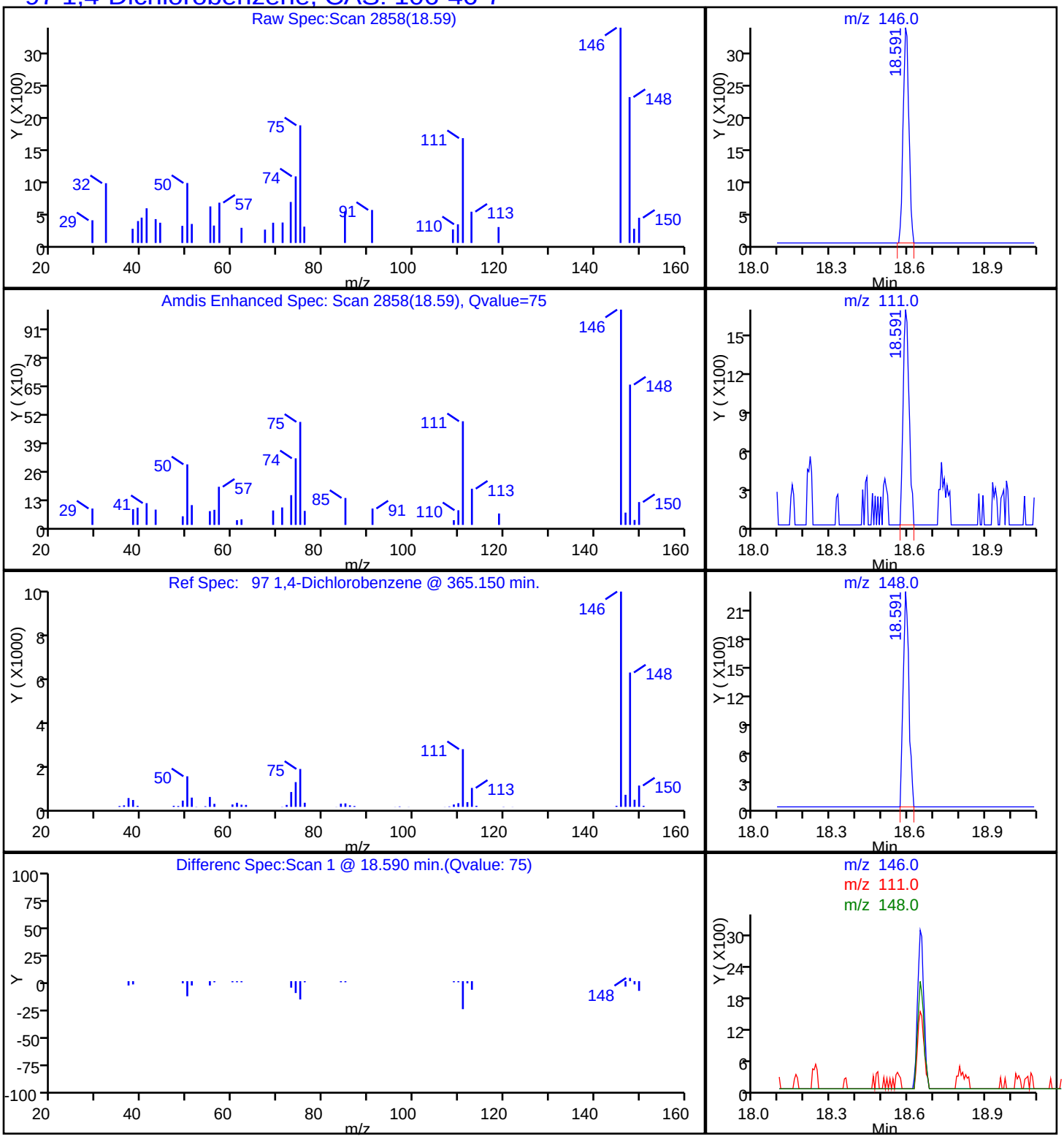
93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D				
Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



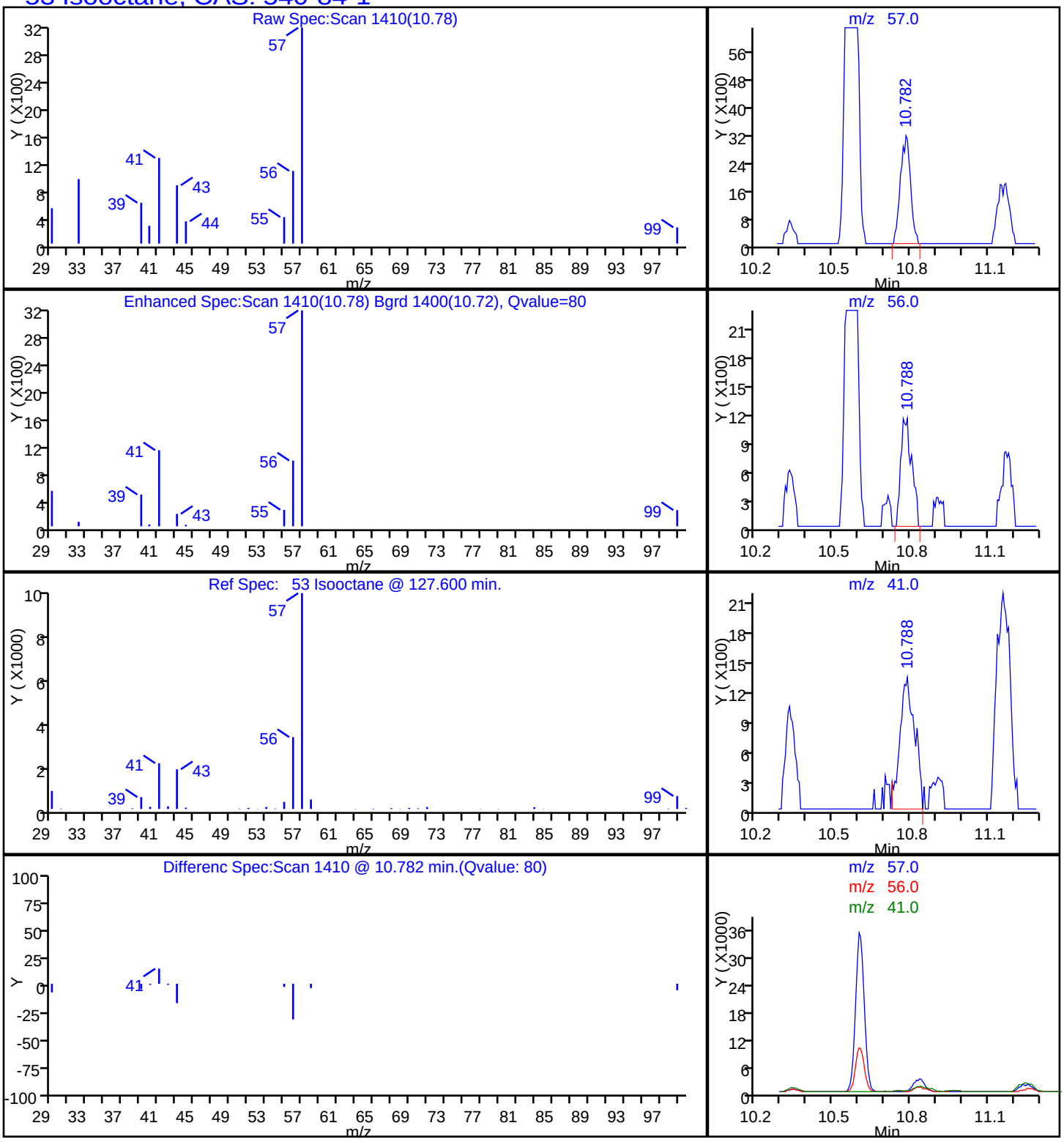
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



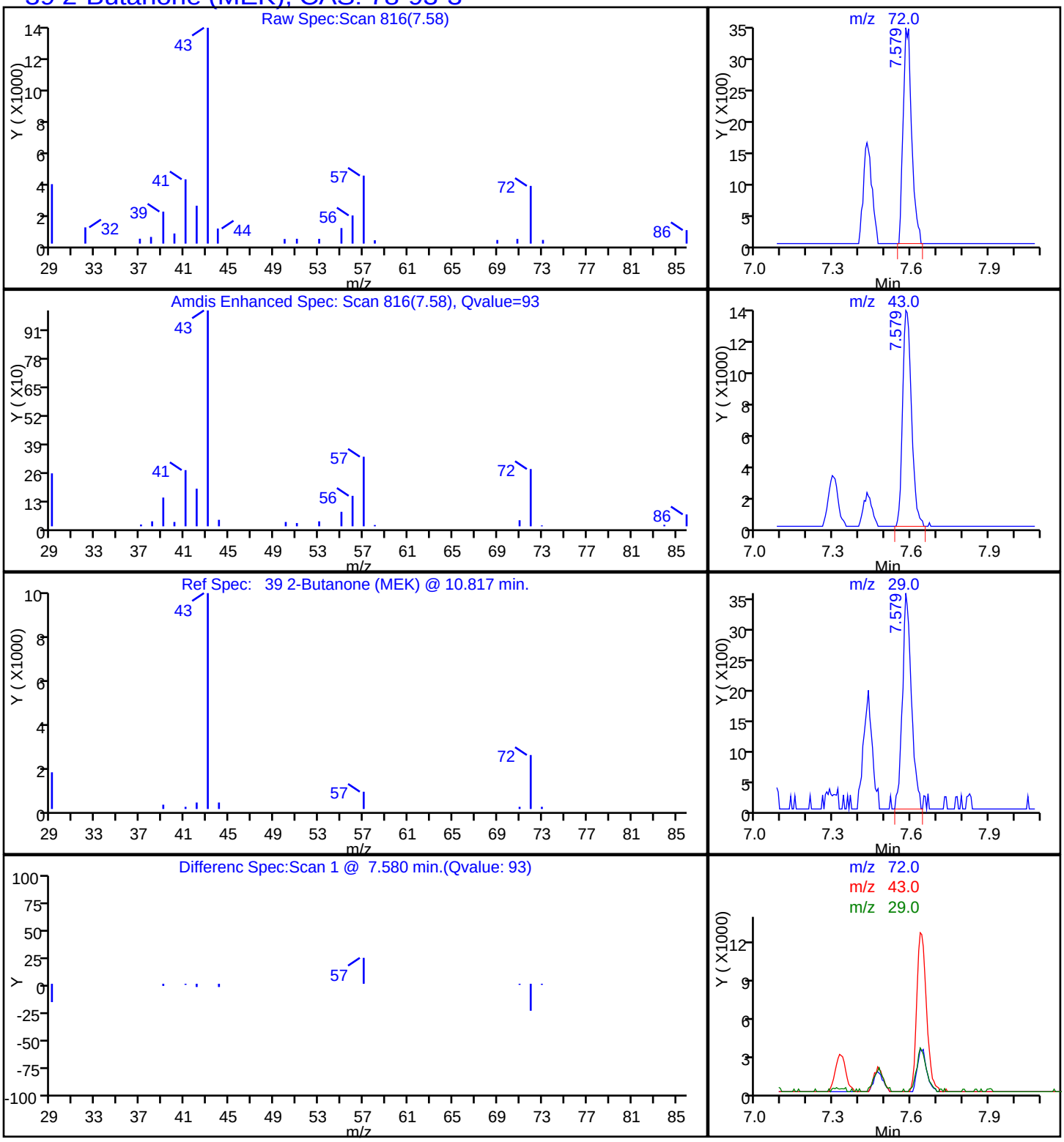
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



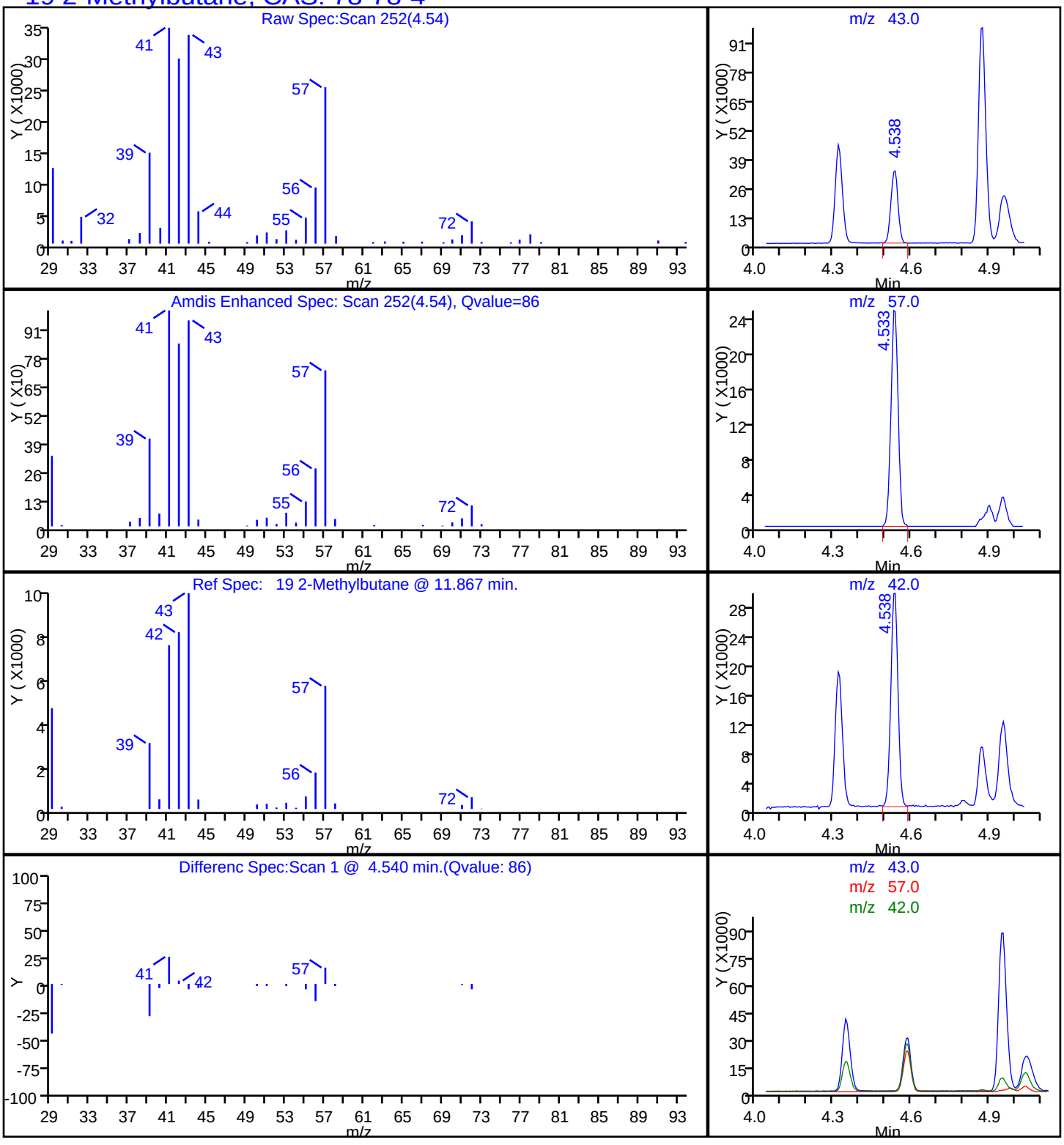
Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



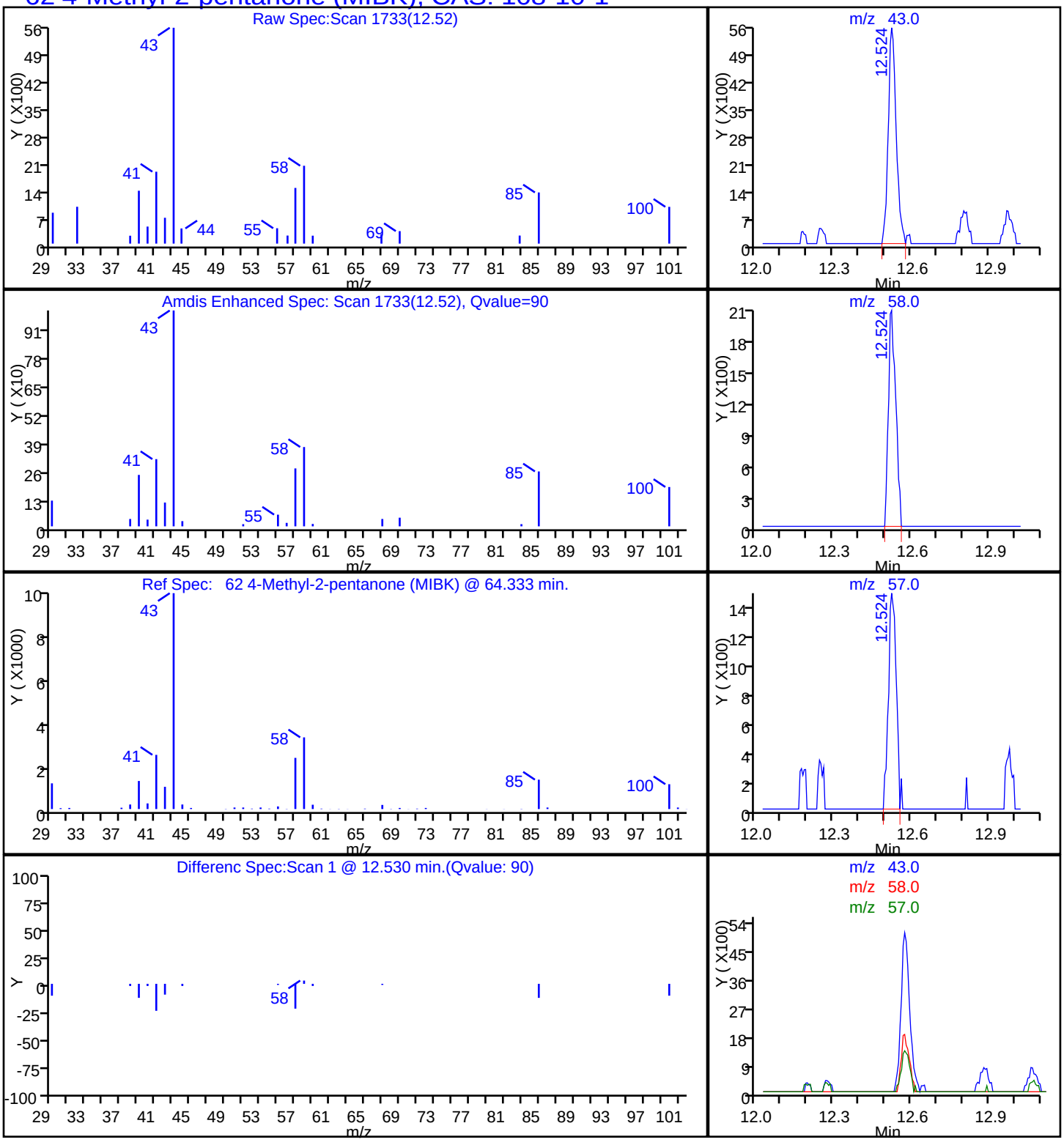
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



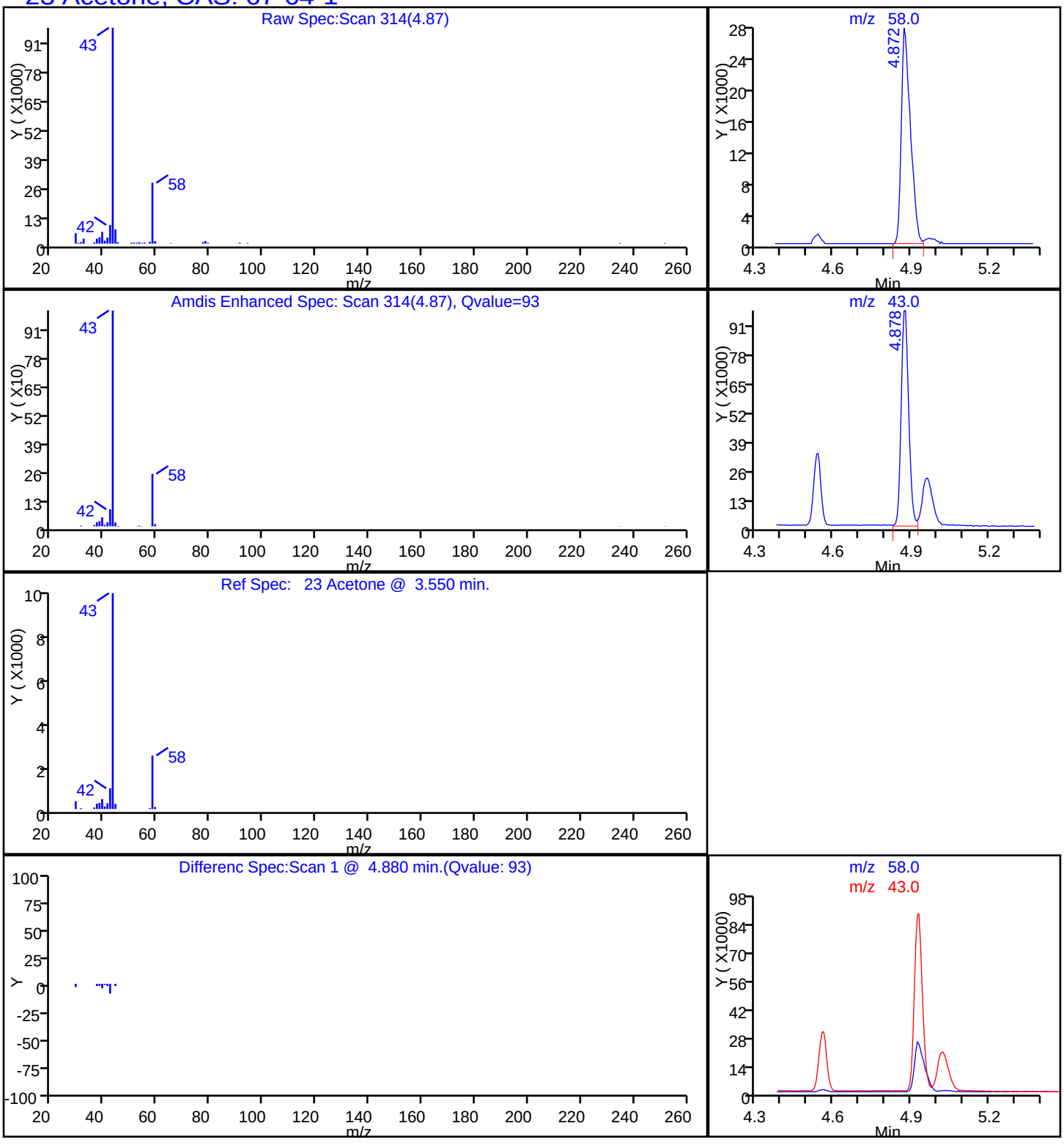
Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



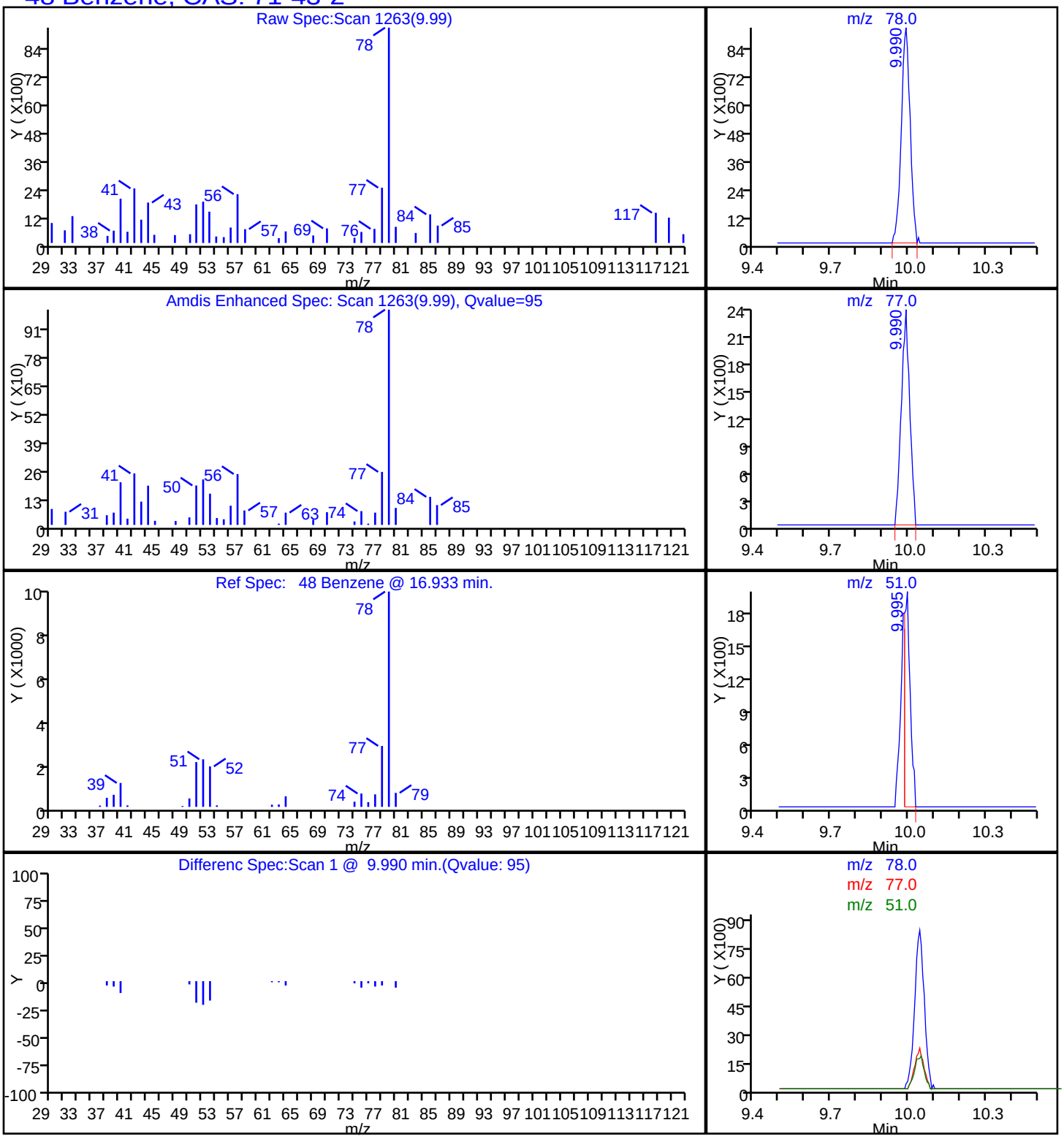
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date: 14-Mar-2014 15:40:30 Instrument ID: ME

Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2

Client ID: PCV-IA2-B1

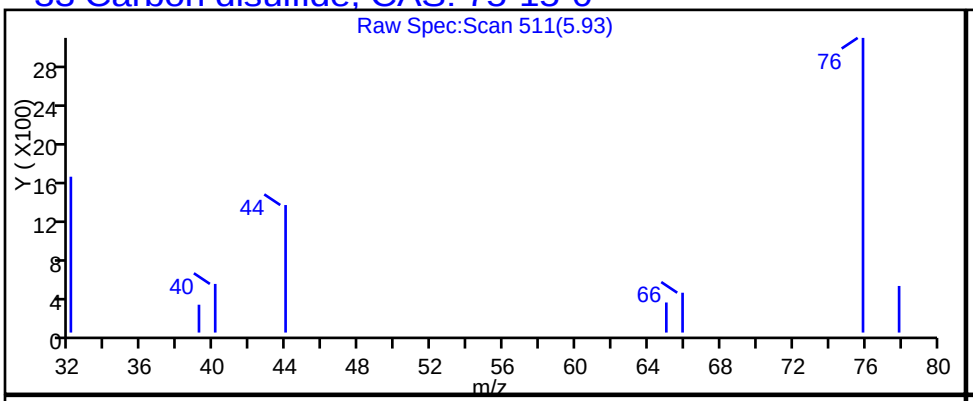
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

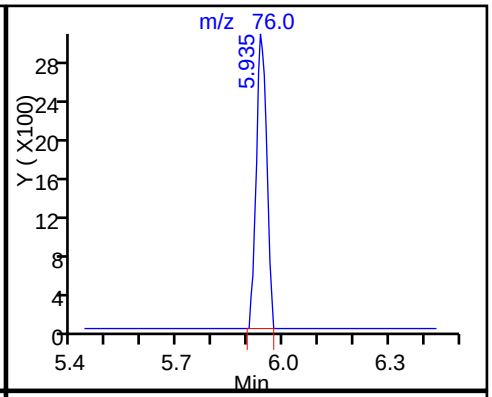
Purge Vol: 500.000 mL Dil. Factor: 1.0000

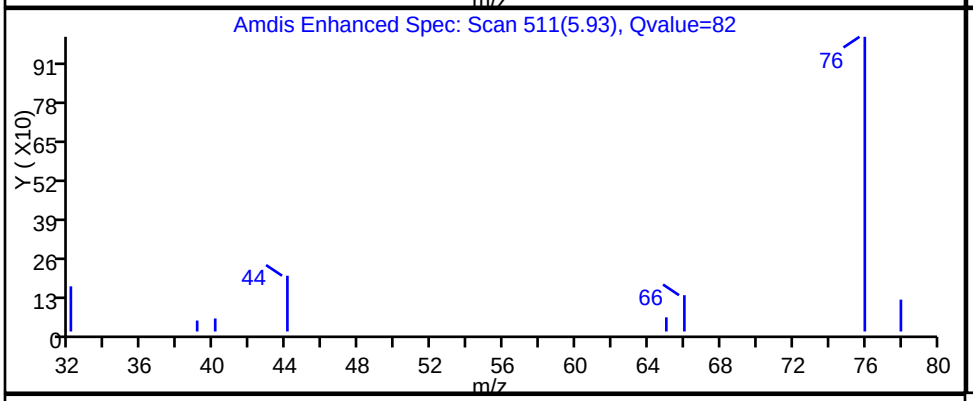
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

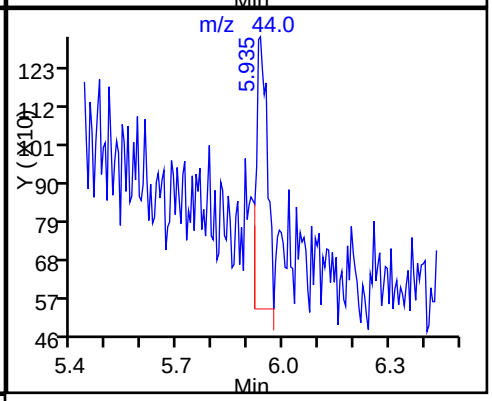
Column: RTX-5 (0.32 mm) Detector MS SCAN

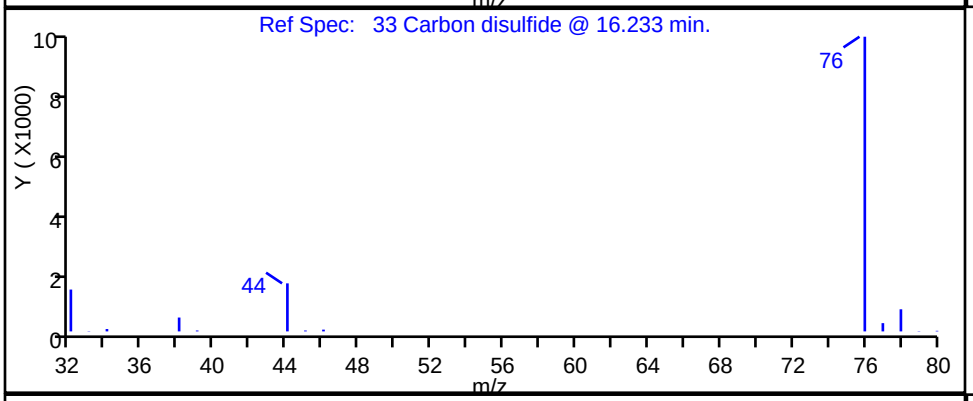
33 Carbon disulfide, CAS: 75-15-0

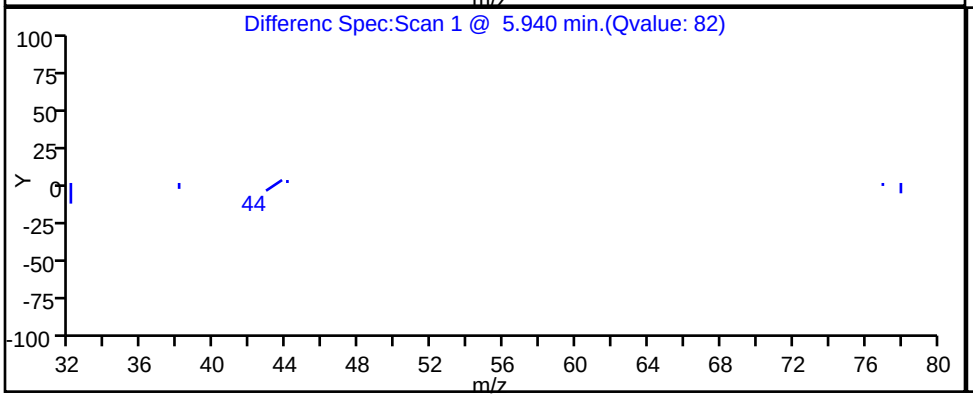


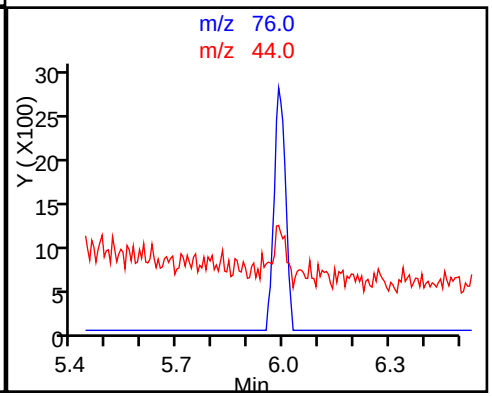












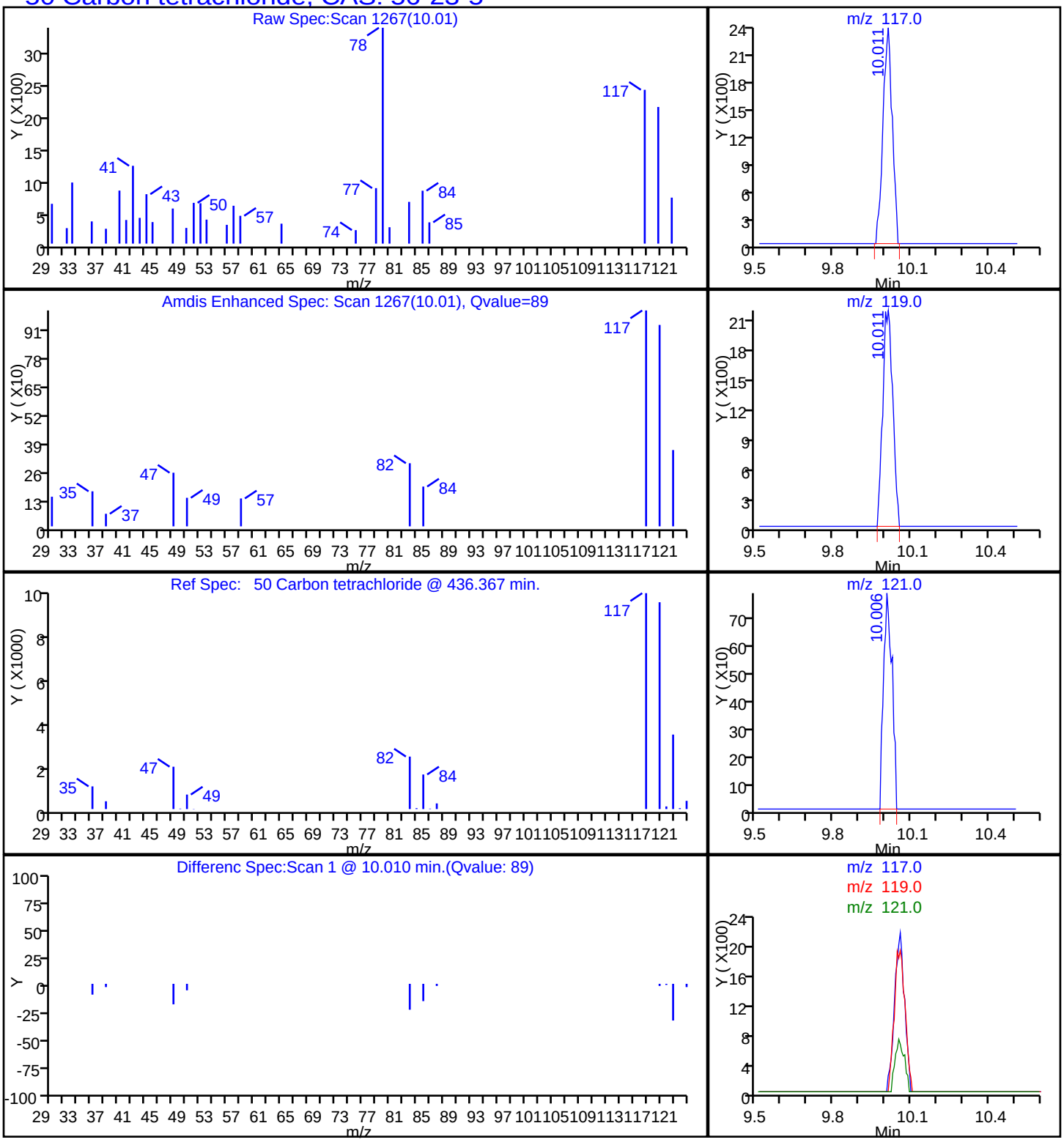
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date: 14-Mar-2014 15:40:30 Instrument ID: ME

Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2

Client ID: PCV-IA2-B1

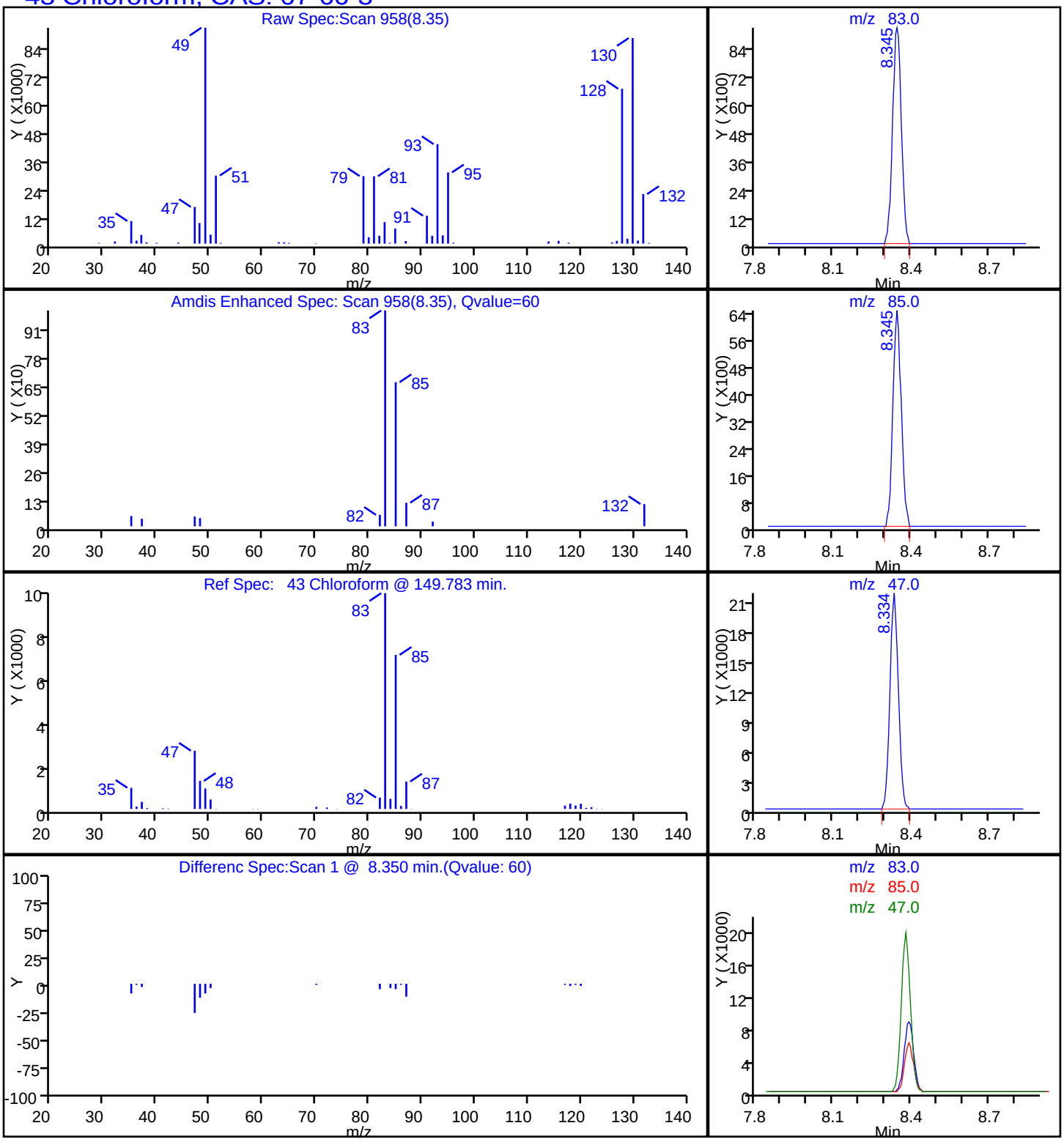
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



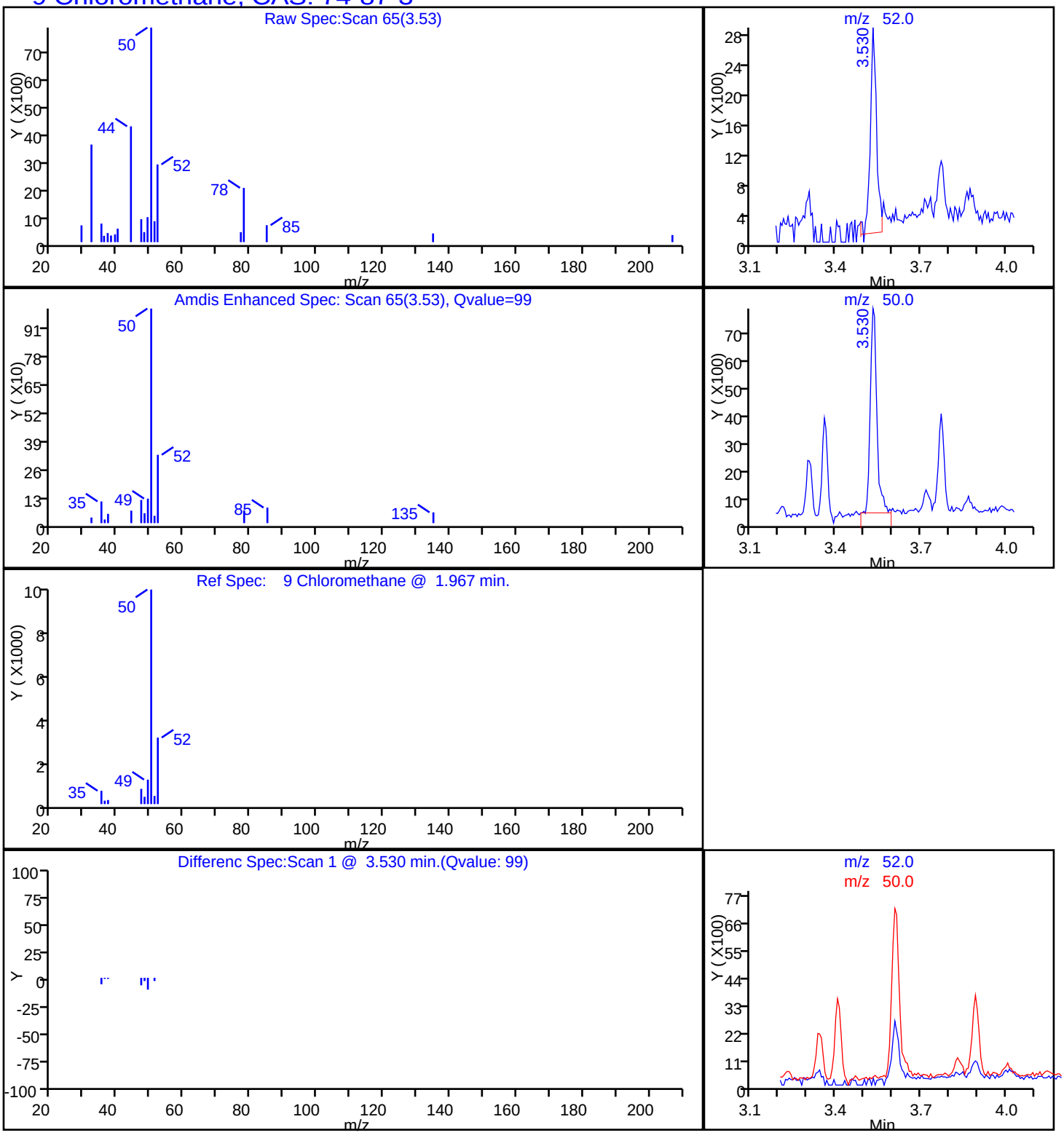
Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



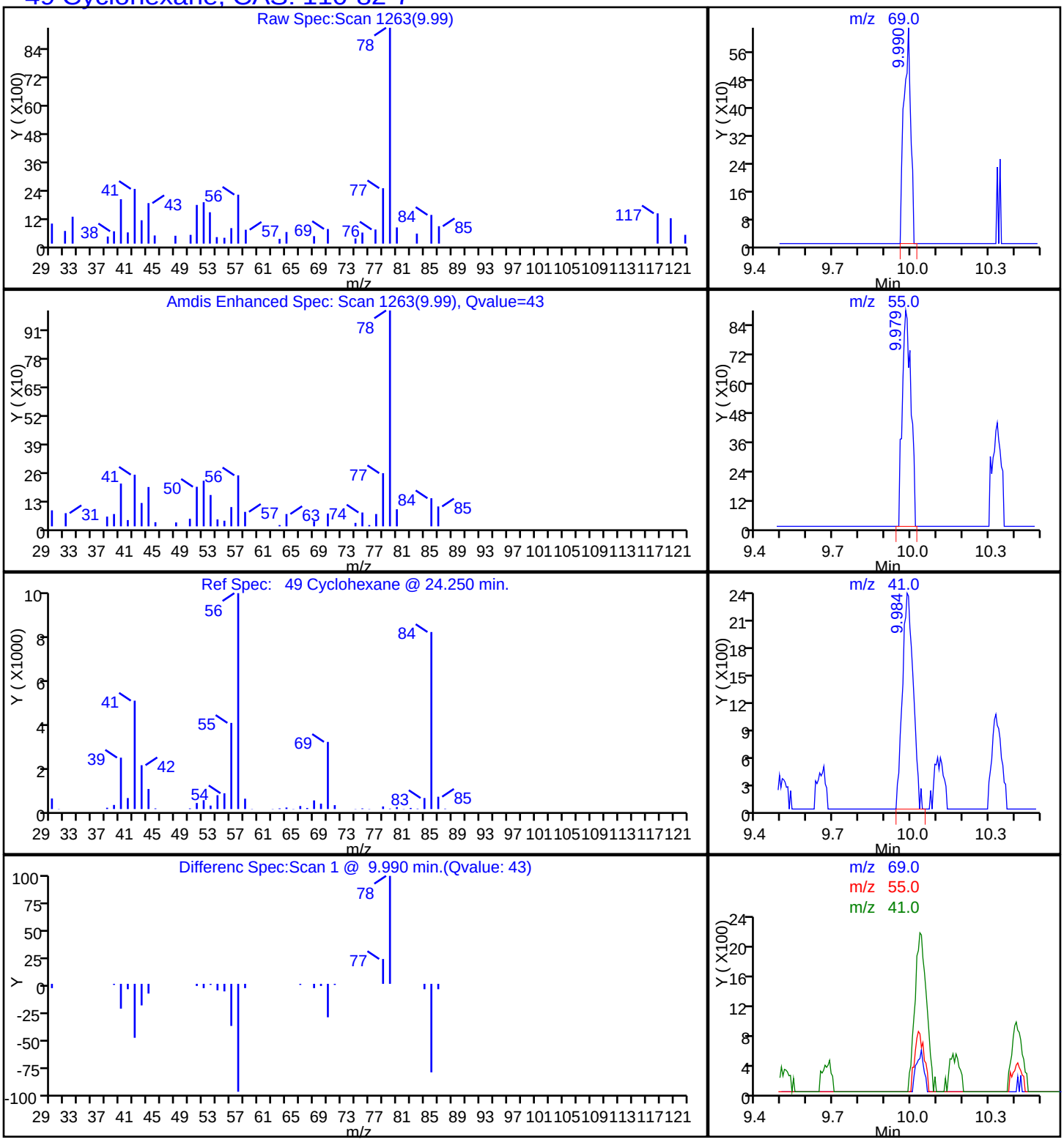
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7

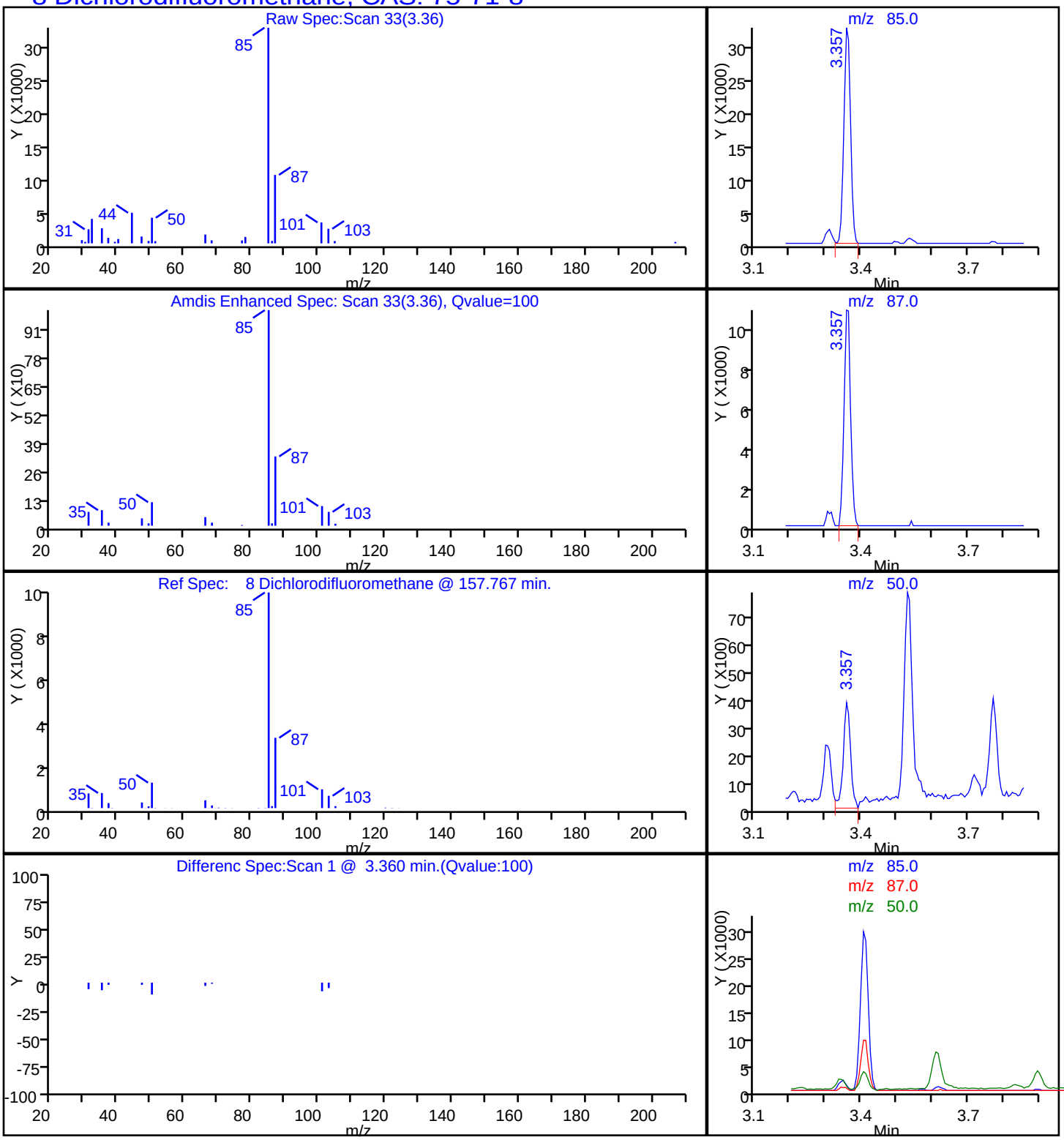


Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D				
Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



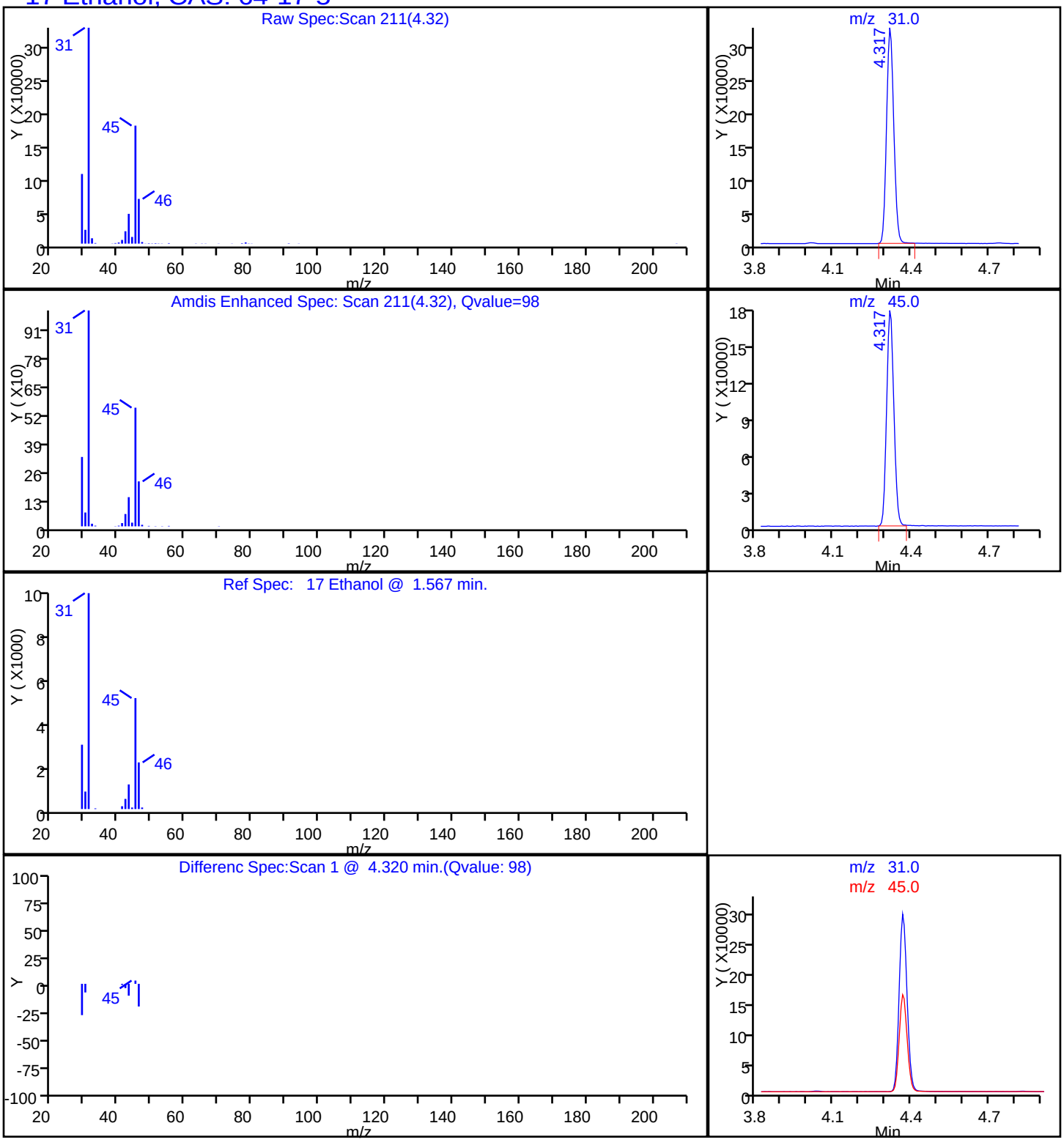
Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date: 14-Mar-2014 15:40:30 Instrument ID: ME

Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2

Client ID: PCV-IA2-B1

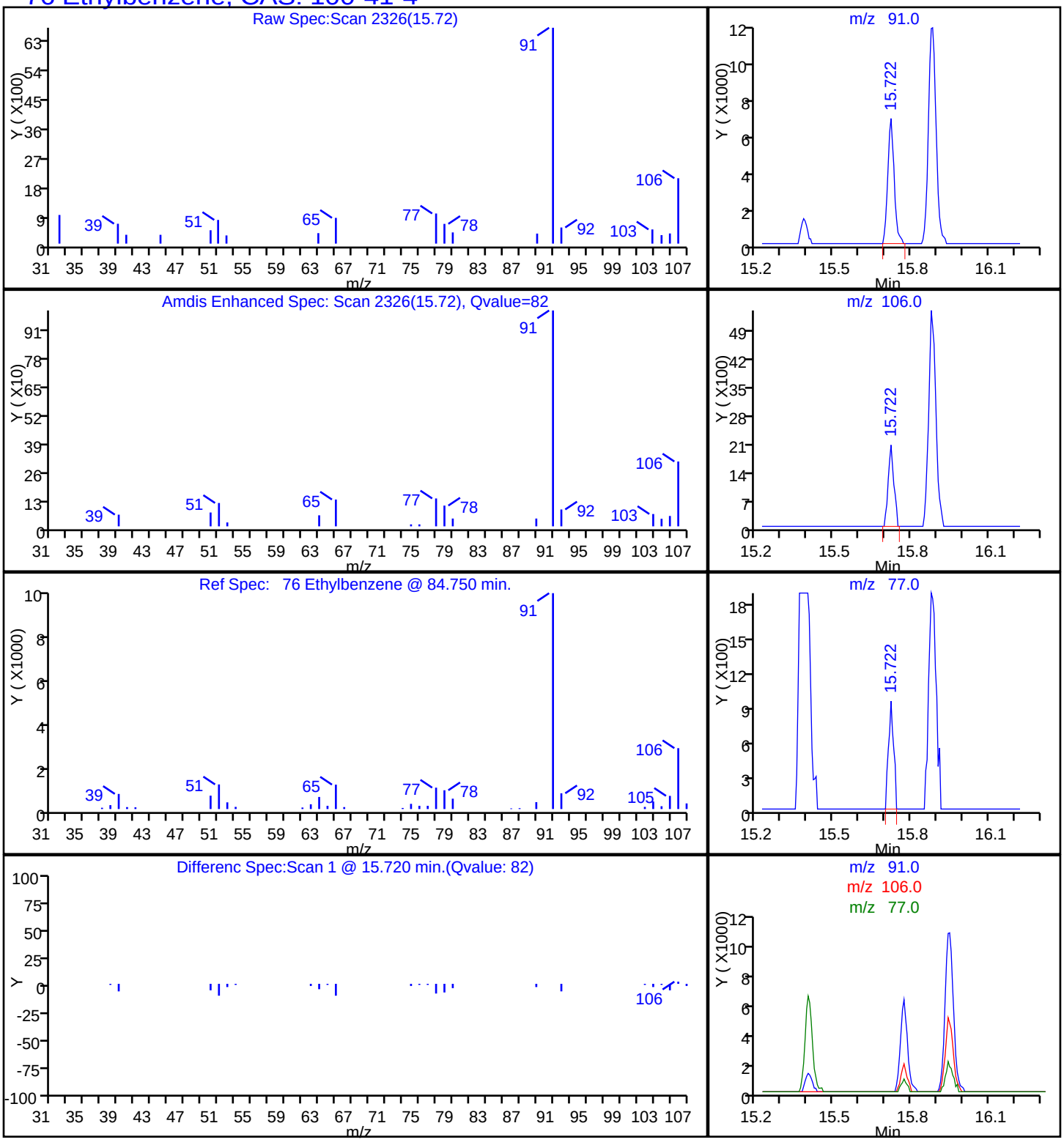
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



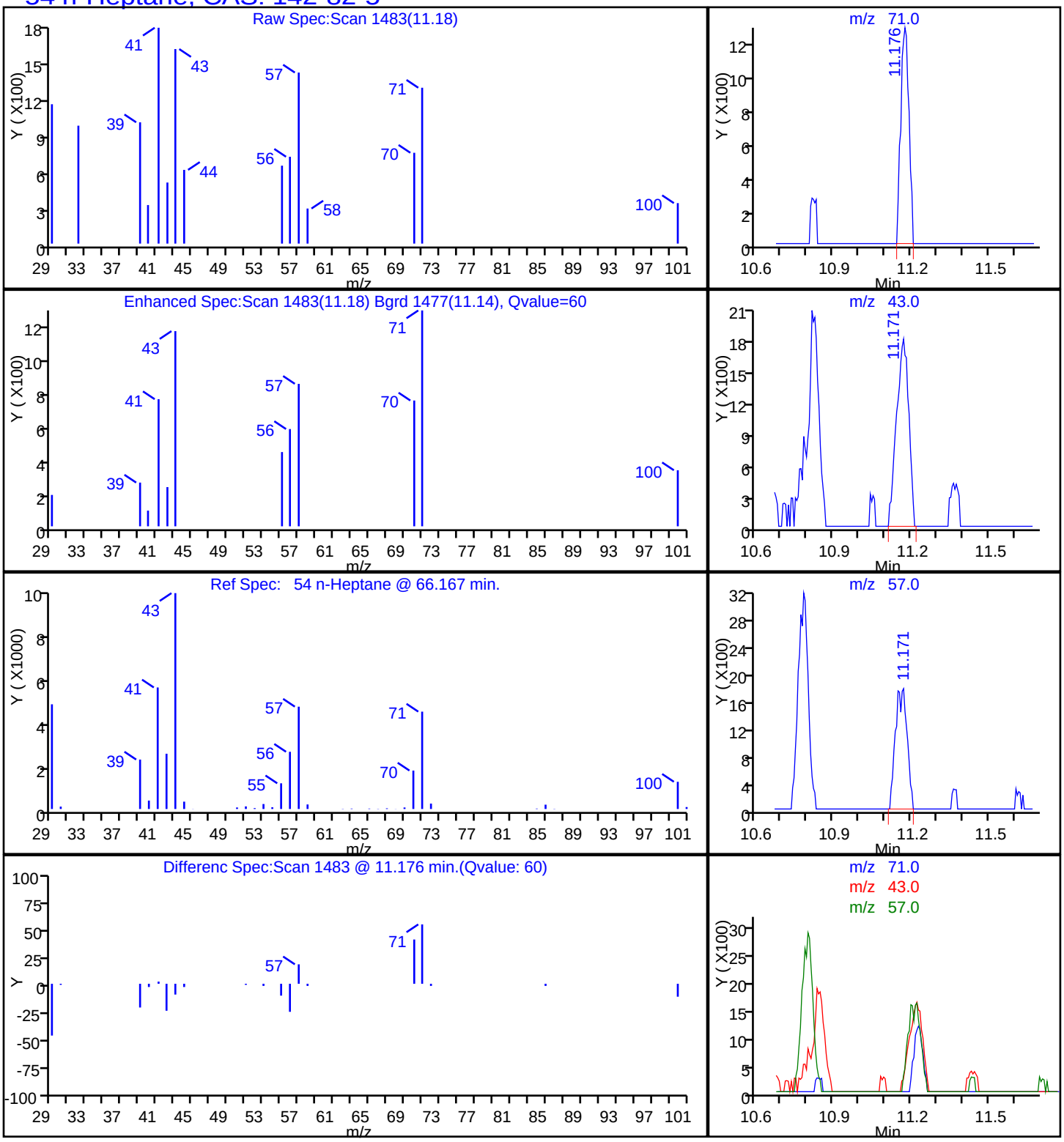
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2
Client ID:	PCV-IA2-B1		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



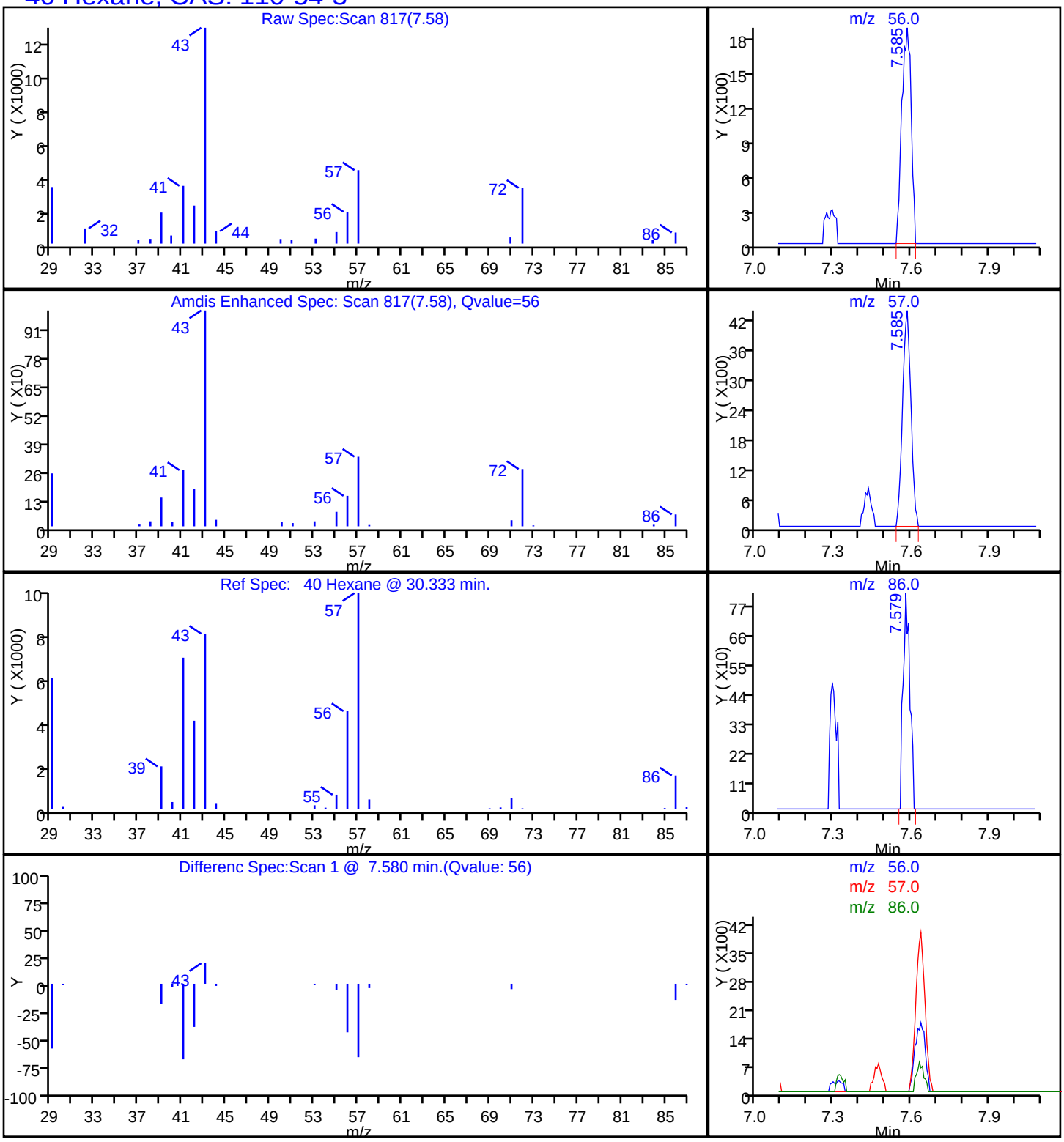
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date: 14-Mar-2014 15:40:30 Instrument ID: ME

Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2

Client ID: PCV-IA2-B1

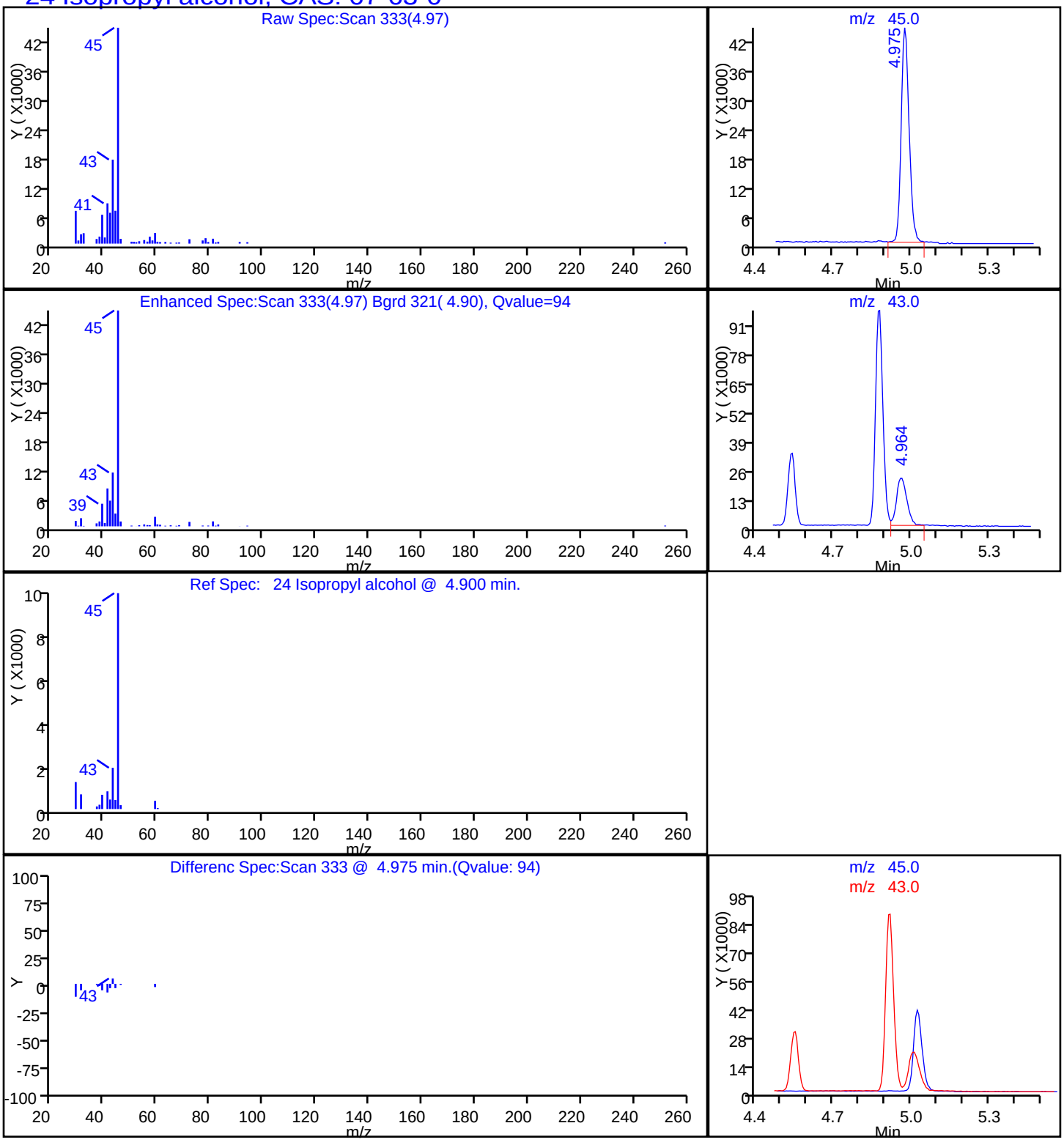
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



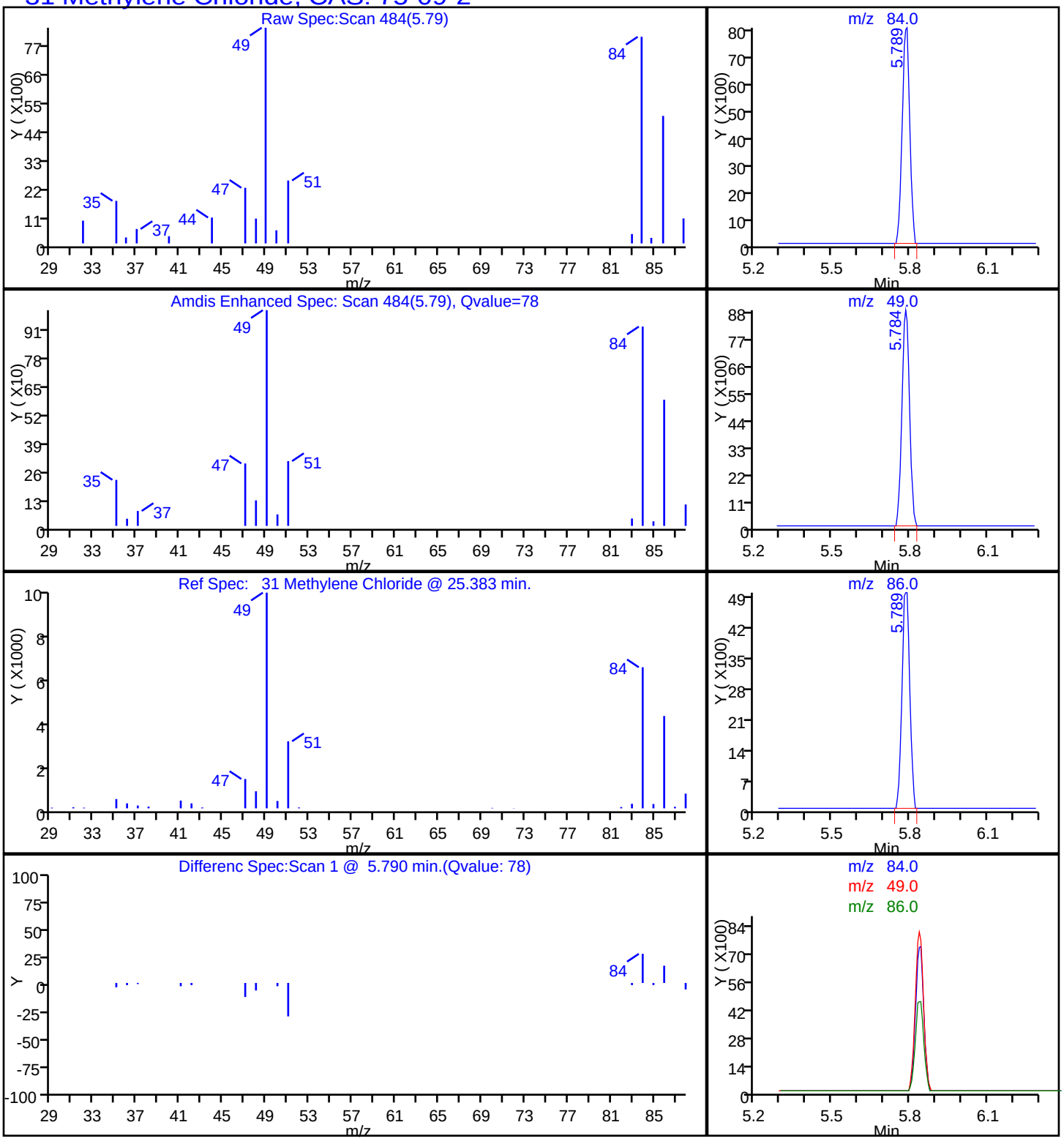
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



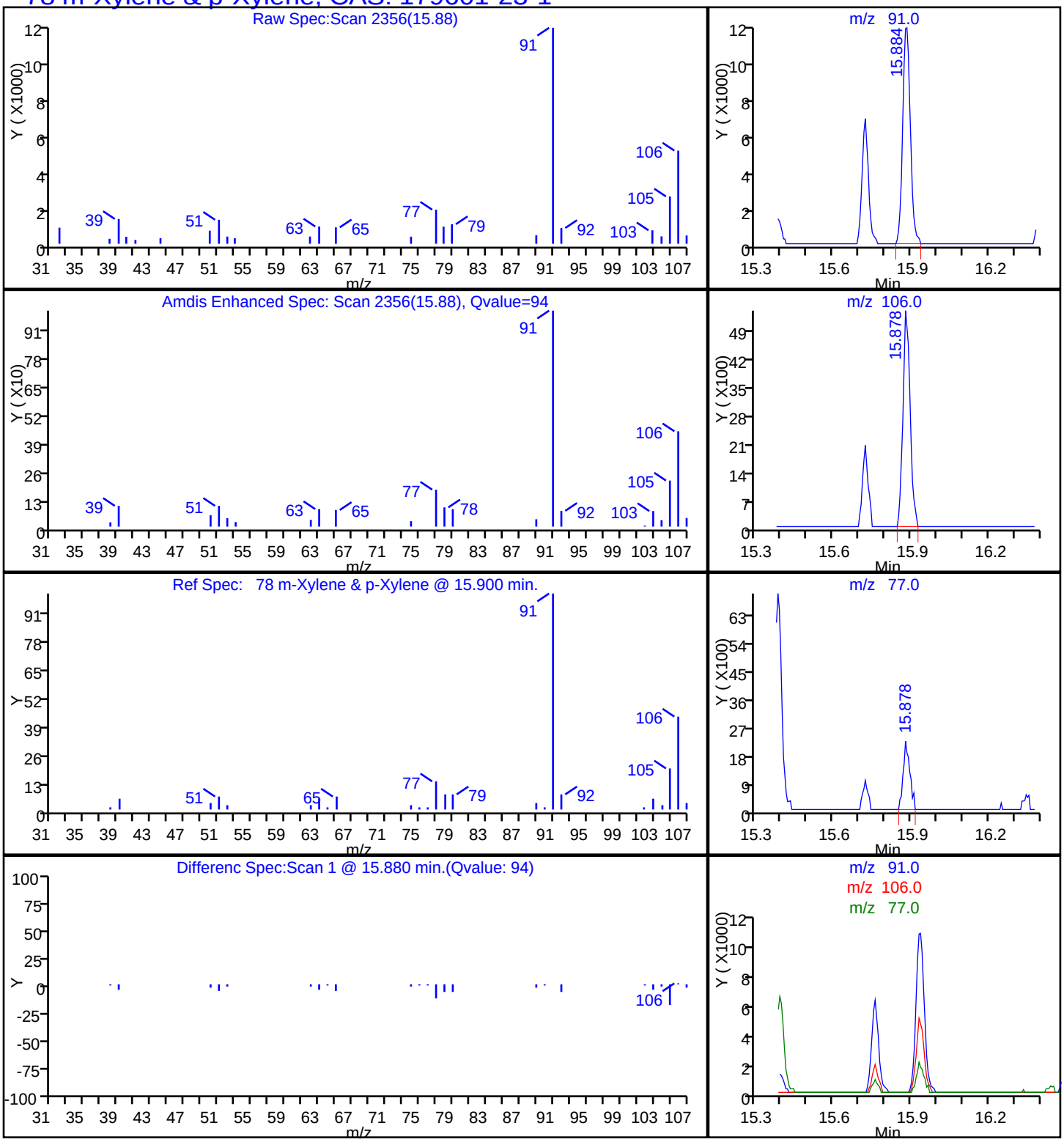
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



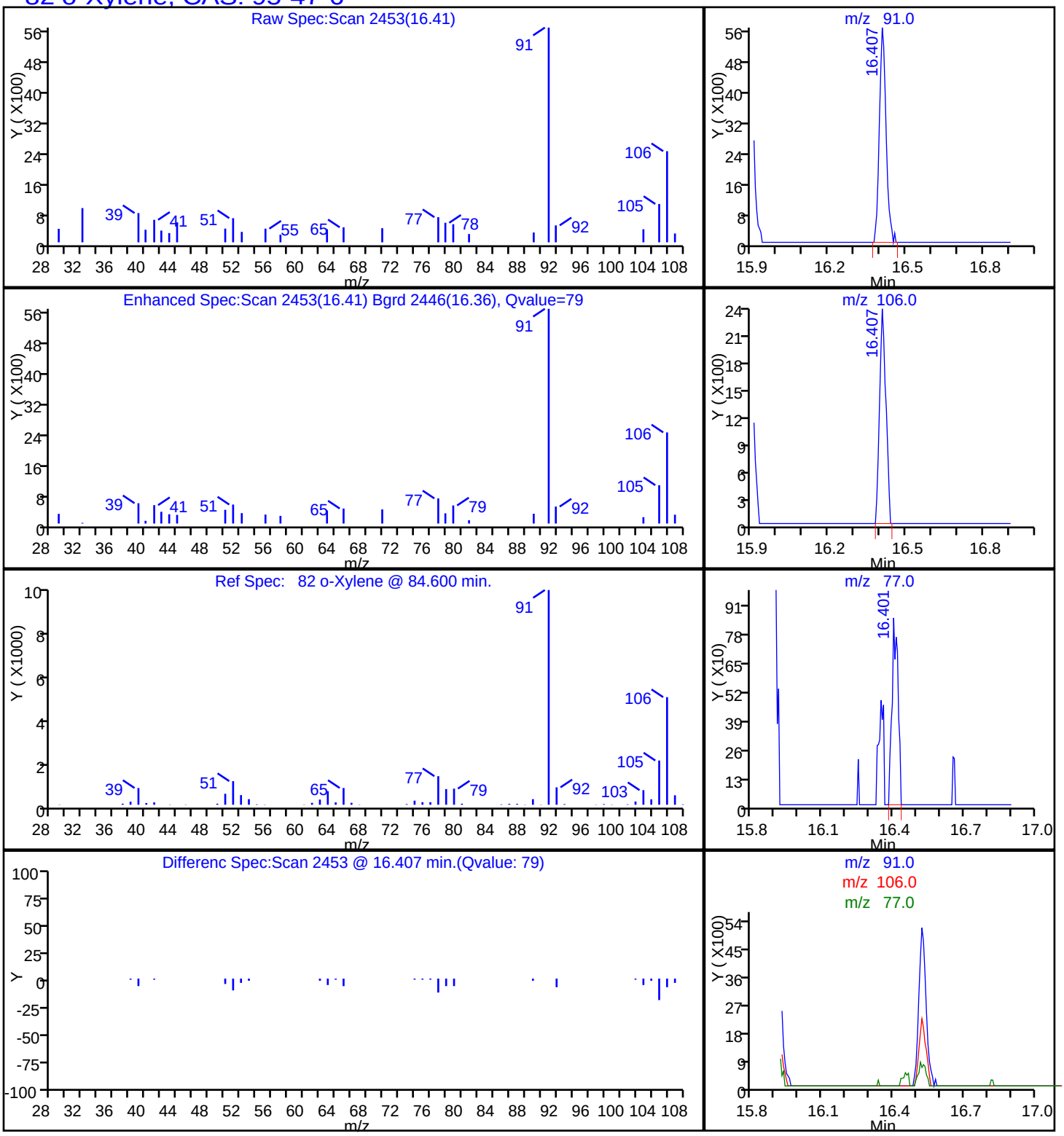
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



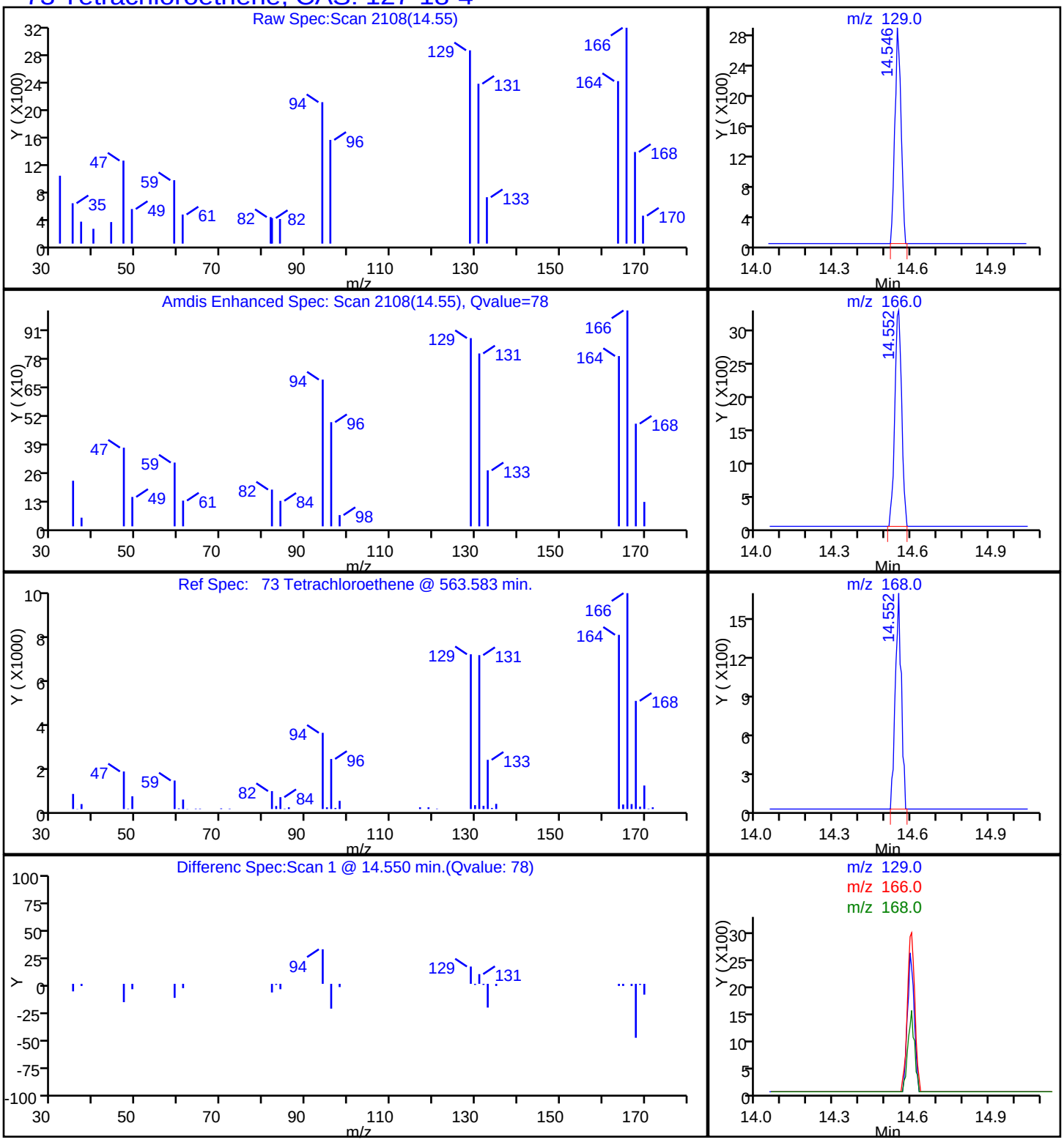
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



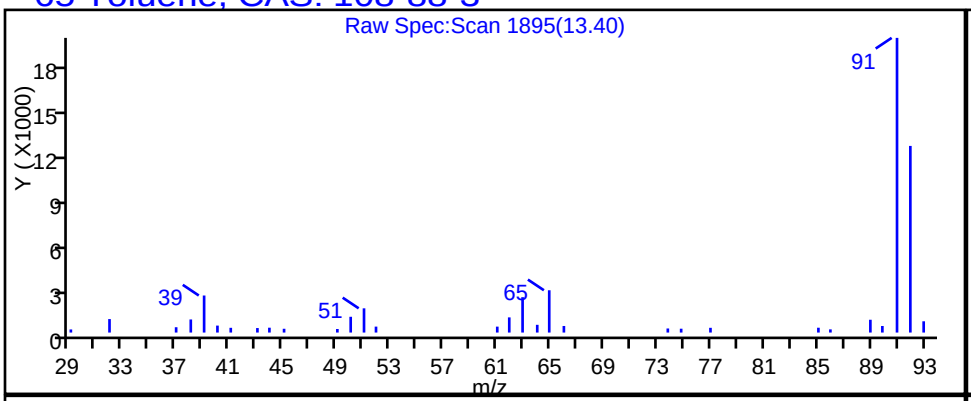
Report Date: 17-Mar-2014 16:23:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

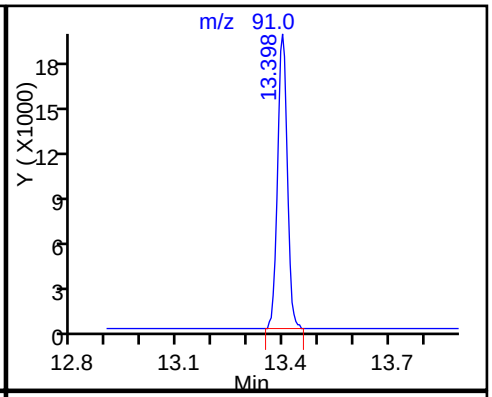
TestAmerica Knoxville

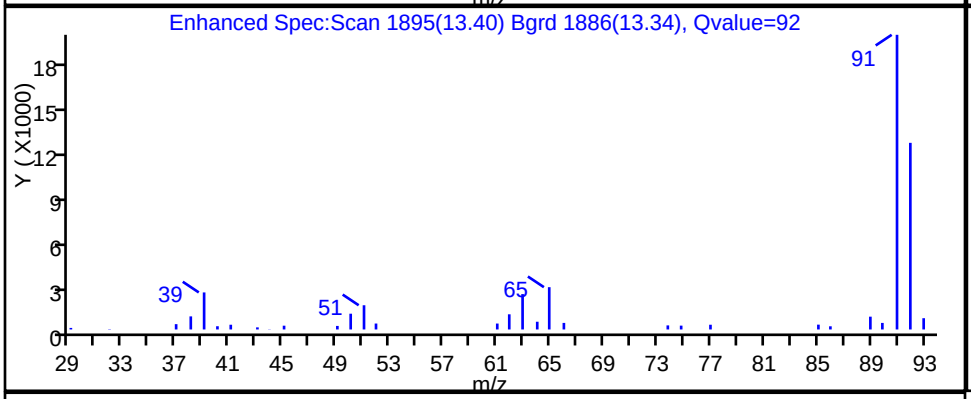
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

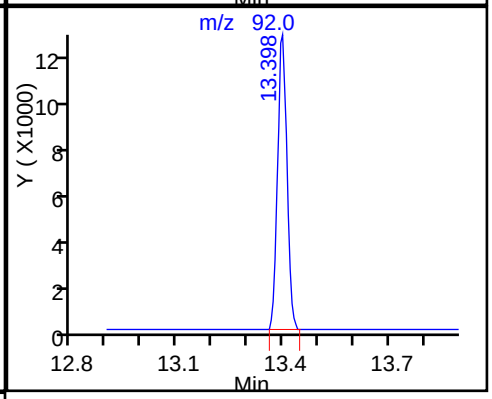
Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

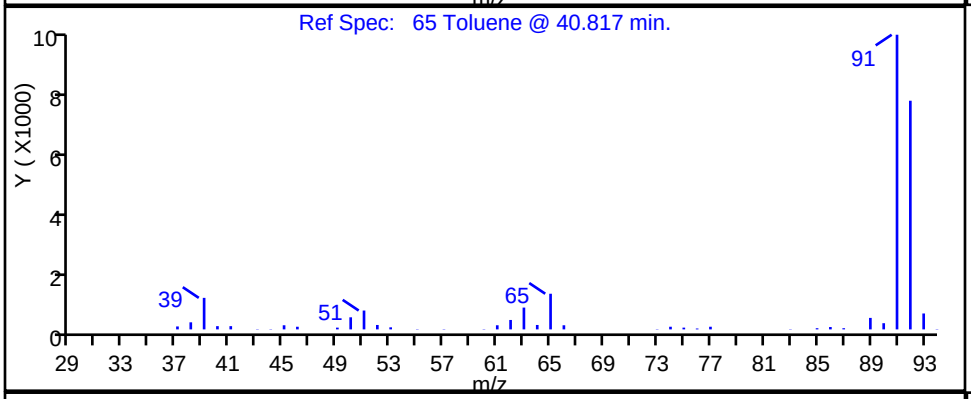
65 Toluene, CAS: 108-88-3

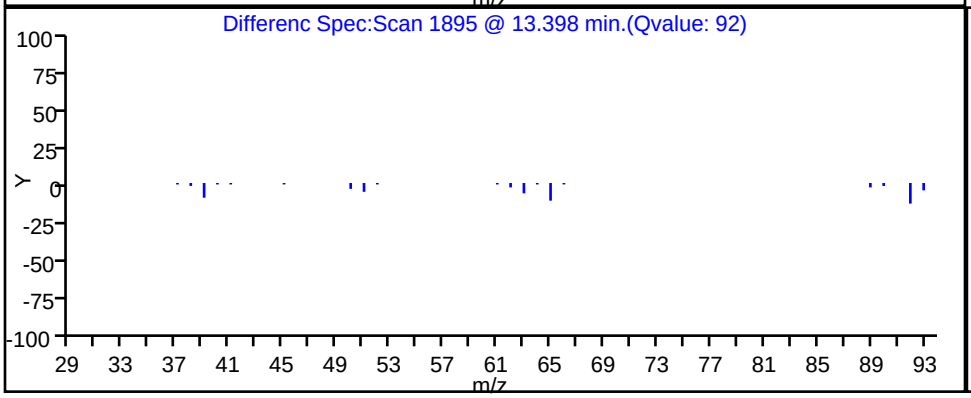


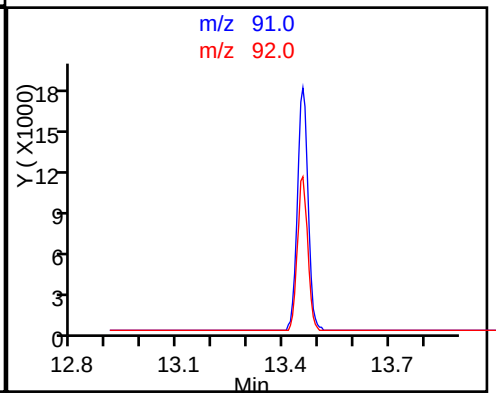












Report Date: 17-Mar-2014 16:23:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D

Injection Date: 14-Mar-2014 15:40:30 Instrument ID: ME

Lims ID: 140-1041-A-2 Lab Sample ID: 140-1041-2

Client ID: PCV-IA2-B1

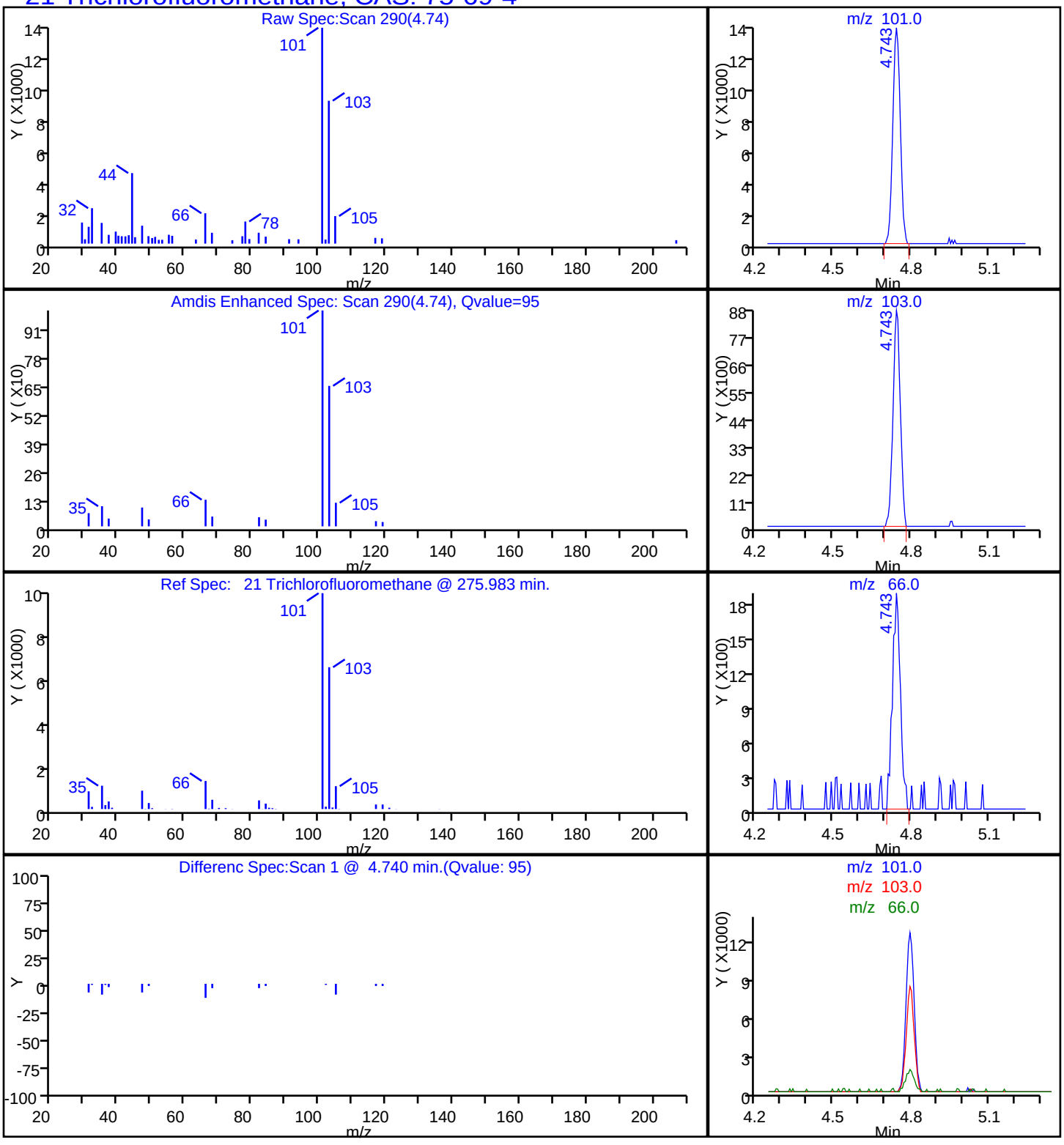
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

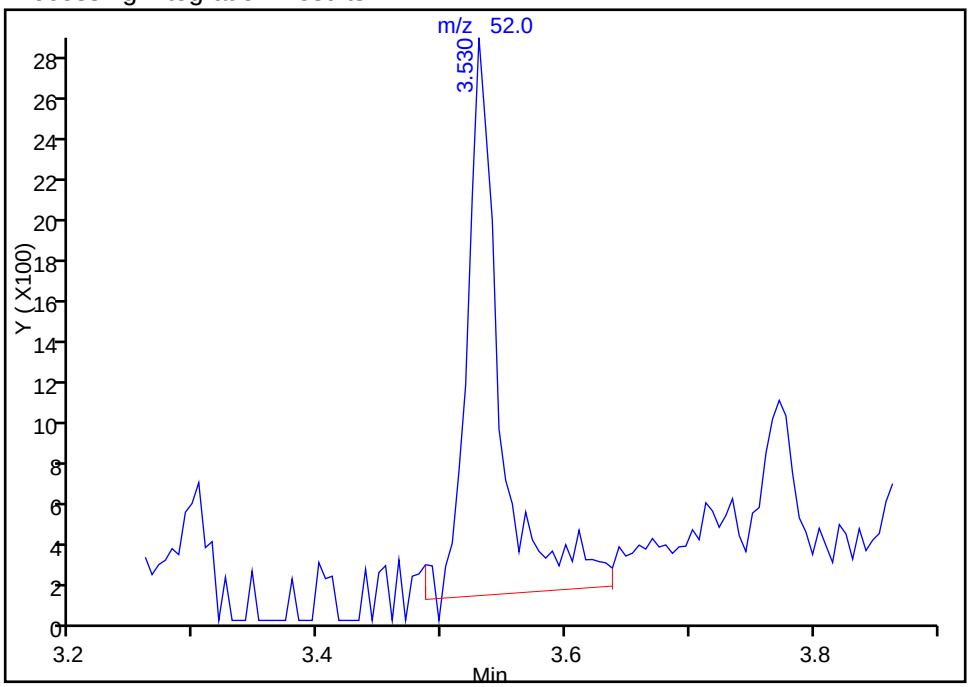
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P102.D				
Injection Date:	14-Mar-2014 15:40:30	Instrument ID:	ME		
Lims ID:	140-1041-A-2	Lab Sample ID:	140-1041-2		
Client ID:	PCV-IA2-B1				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

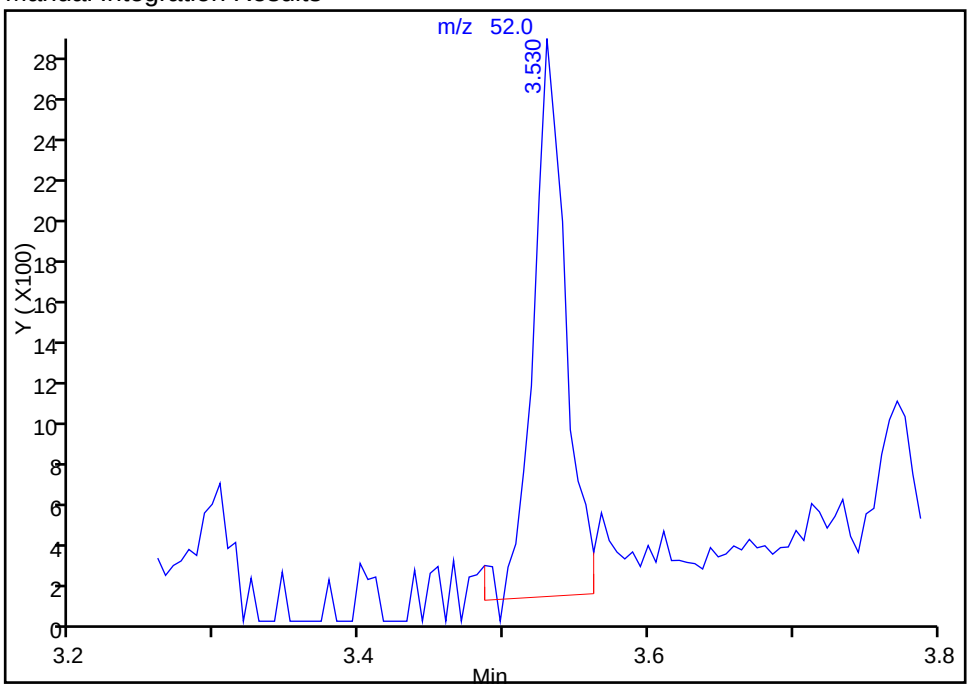
Processing Integration Results

RT: 3.53
Response: 5035
Amount: 0.302339



Manual Integration Results

RT: 3.53
Response: 4215
Amount: 0.253100



Reviewer: barlozhetskayaa, 17-Mar-2014 16:23:31
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.043	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.27	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.74		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.091	J	0.50	0.045
67-64-1	Acetone	58.08	3.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.039	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.039	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.70		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	31		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.0		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.39	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.10	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	0.19	J	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.25		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.79	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.37	J	2.0	0.18
67-64-1	Acetone	58.08	8.0	J	12	3.3
71-43-2	Benzene	78.11	0.59	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.15	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.19	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	59		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.45	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.9		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.68	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	0.55	J	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.95		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B2 Lab Sample ID: 140-1041-3

Matrix: Air Lab File ID: EC14P103.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D
Lims ID: 140-1041-A-3 Lab Sample ID: 140-1041-3
Client ID: PCV-IA1-B2
Sample Type: Client
Inject. Date: 14-Mar-2014 16:24:30 ALS Bottle#: 3 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-3
Misc. Info.: E031414,TO155,,140-0000522-008
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:47:48 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: liul Date: 24-Mar-2014 15:47:48

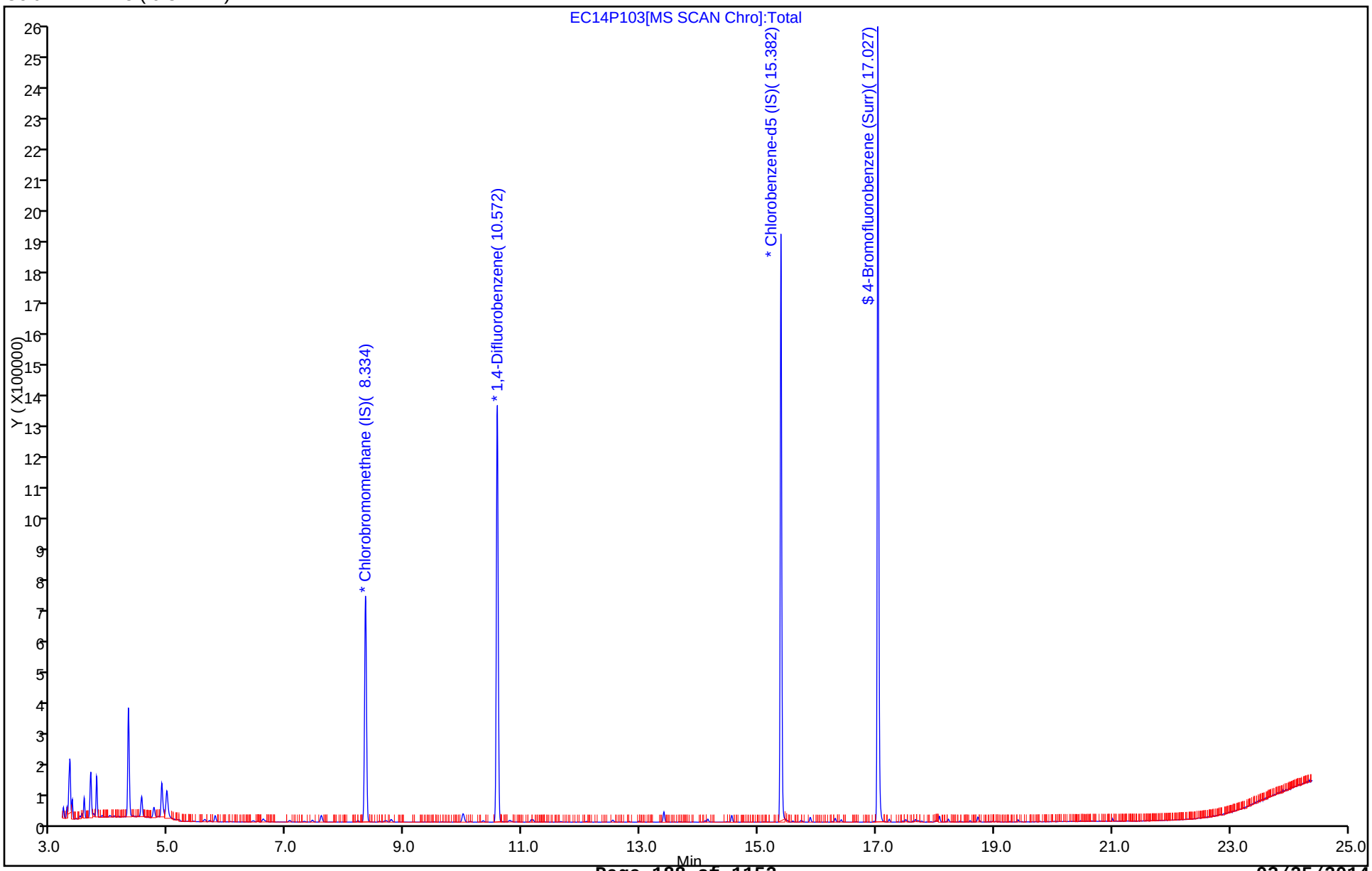
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	80	210206	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1039152	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	906714	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	845832	4.26	
7 Propene	41	3.319	3.314	0.005	89	24138	0.4565	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	99	42820	0.1841	
9 Chloromethane	52	3.530	3.530	0.0	98	5220	0.2812	
15 Bromomethane	94	4.085	4.080	0.005	29	1200	0.0155	
17 Ethanol	31	4.312	4.317	-0.005	98	261961	12.5	
19 2-Methylbutane	43	4.538	4.538	0.0	87	21807	0.2962	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	94	25230	0.1082	
23 Acetone	58	4.878	4.883	-0.005	92	43063	1.35	
24 Isopropyl alcohol	45	4.969	4.975	-0.006	86	65094	0.7941	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.616	5.611	0.005	64	3736	0.0259	
31 Methylene Chloride	84	5.784	5.795	-0.011	74	9351	0.1557	
39 2-Butanone (MEK)	72	7.579	7.585	-0.006	91	3707	0.1077	
40 Hexane	56	7.585	7.590	-0.005	59	2858	0.0511	
43 Chloroform	83	8.345	8.356	-0.011	5	2778	0.0154	
44 Tetrahydrofuran	42	8.776	8.755	0.021	66	4037	0.0749	
48 Benzene	78	9.990	9.995	-0.005	89	15574	0.0745	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	91	5240	0.0261	
53 Isooctane	57	10.782	10.788	-0.006	82	5564	0.0172	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	79	4489	0.0364	
65 Toluene	91	13.398	13.403	-0.005	87	24414	0.1005	
73 Tetrachloroethene	129	14.552	14.552	0.0	79	4154	0.0402	

Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D				
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3	Worklist Smp#:	8
Client ID:	PCV-IA1-B2				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



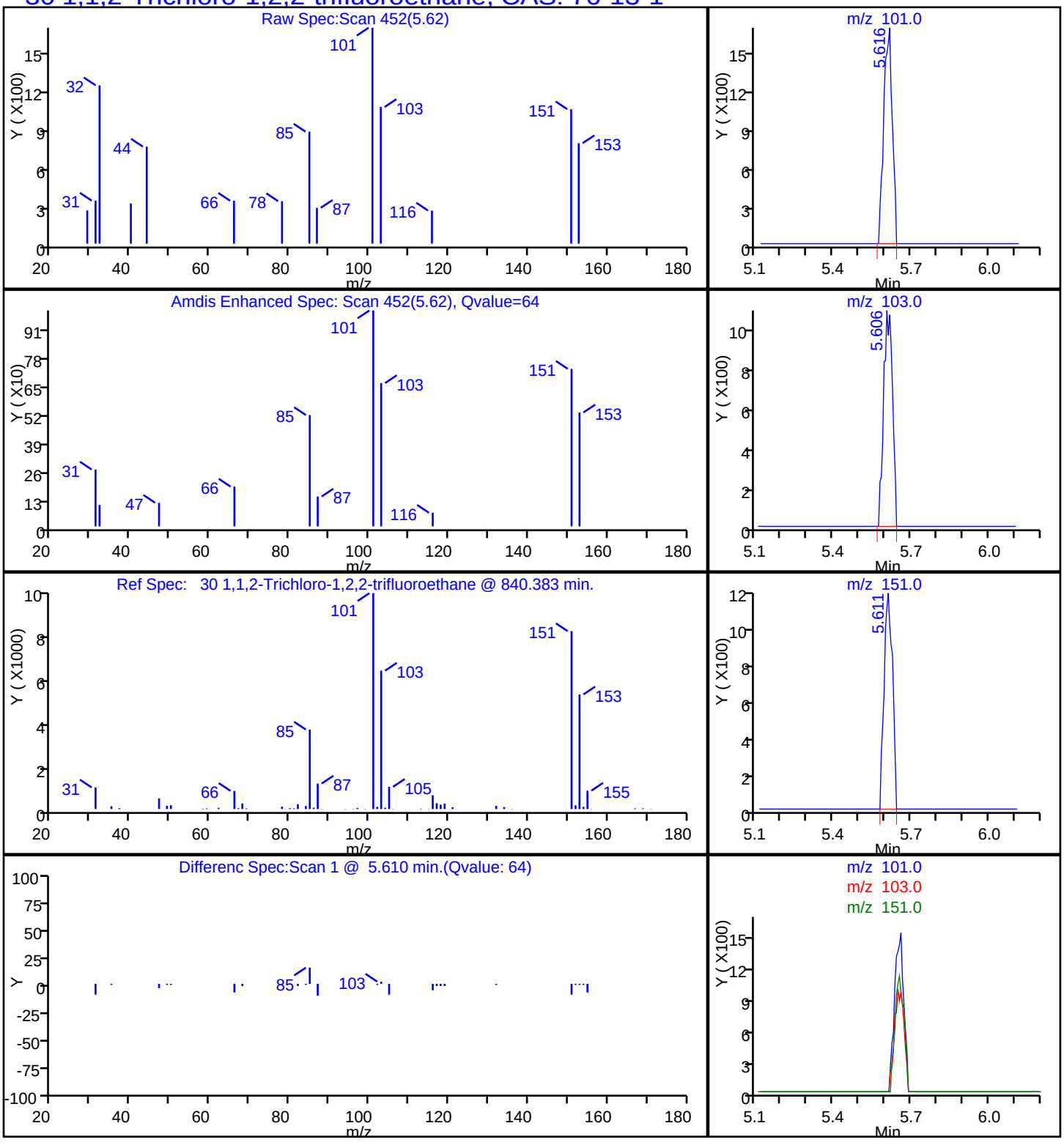
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

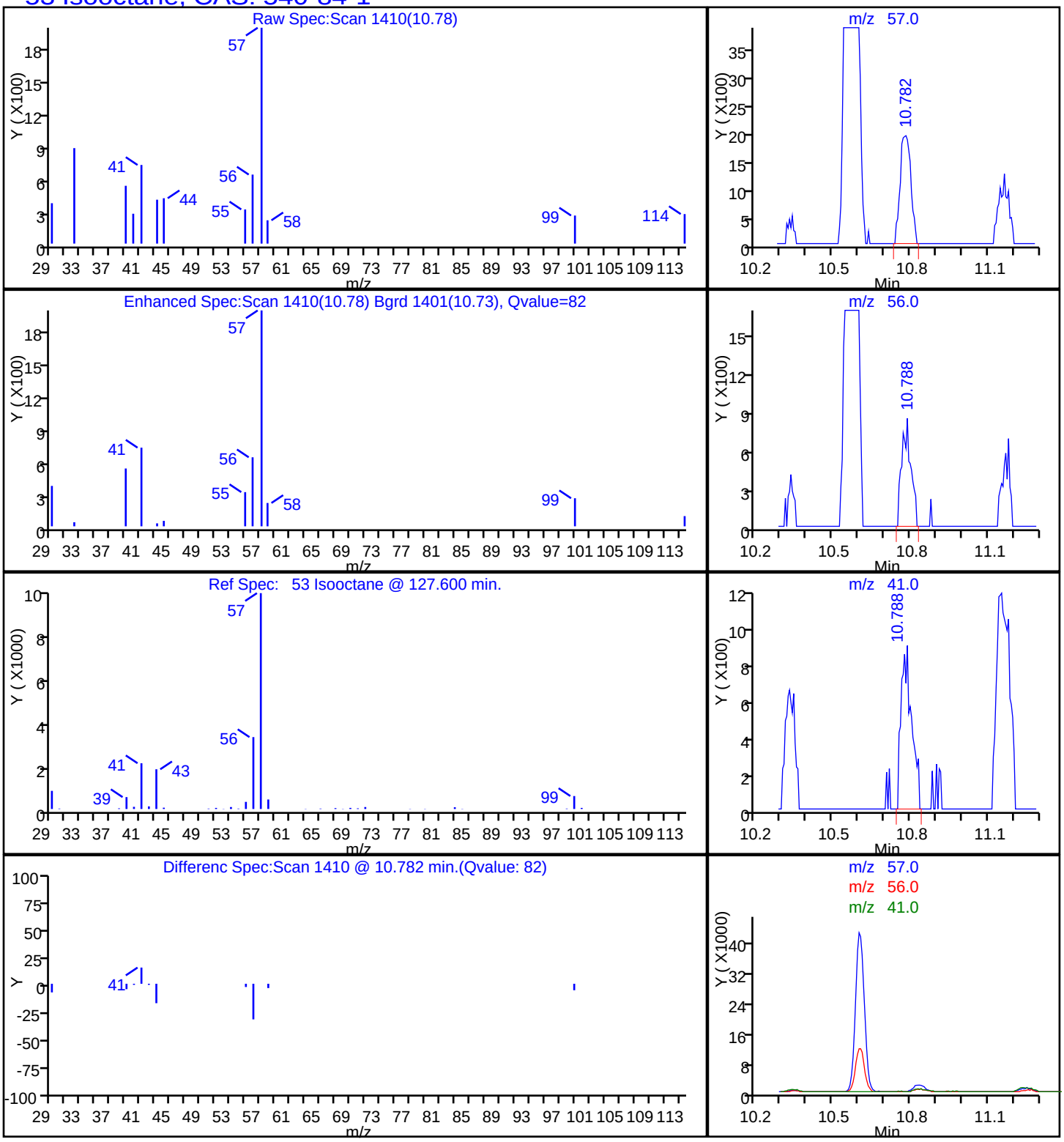


Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D				
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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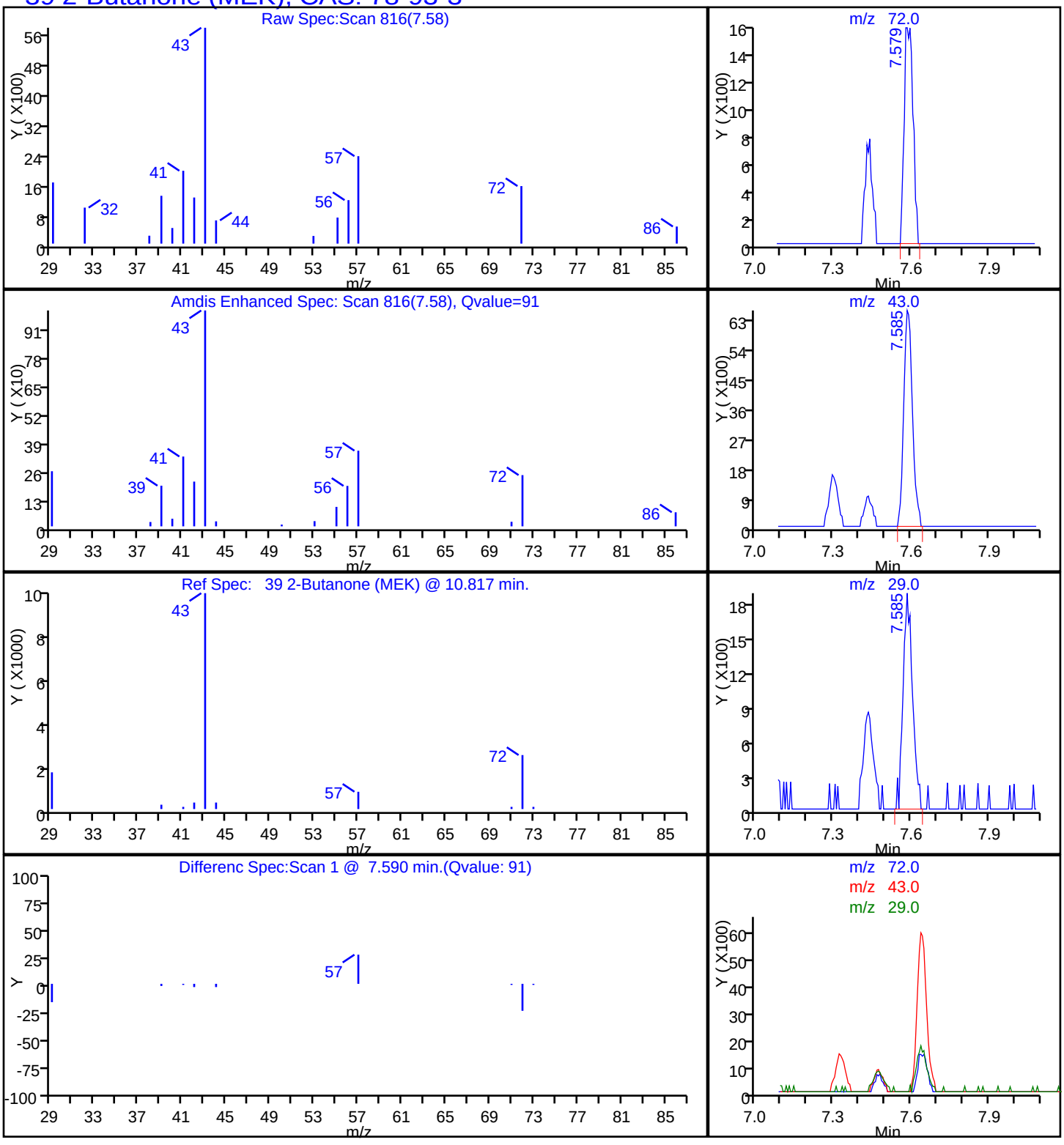
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



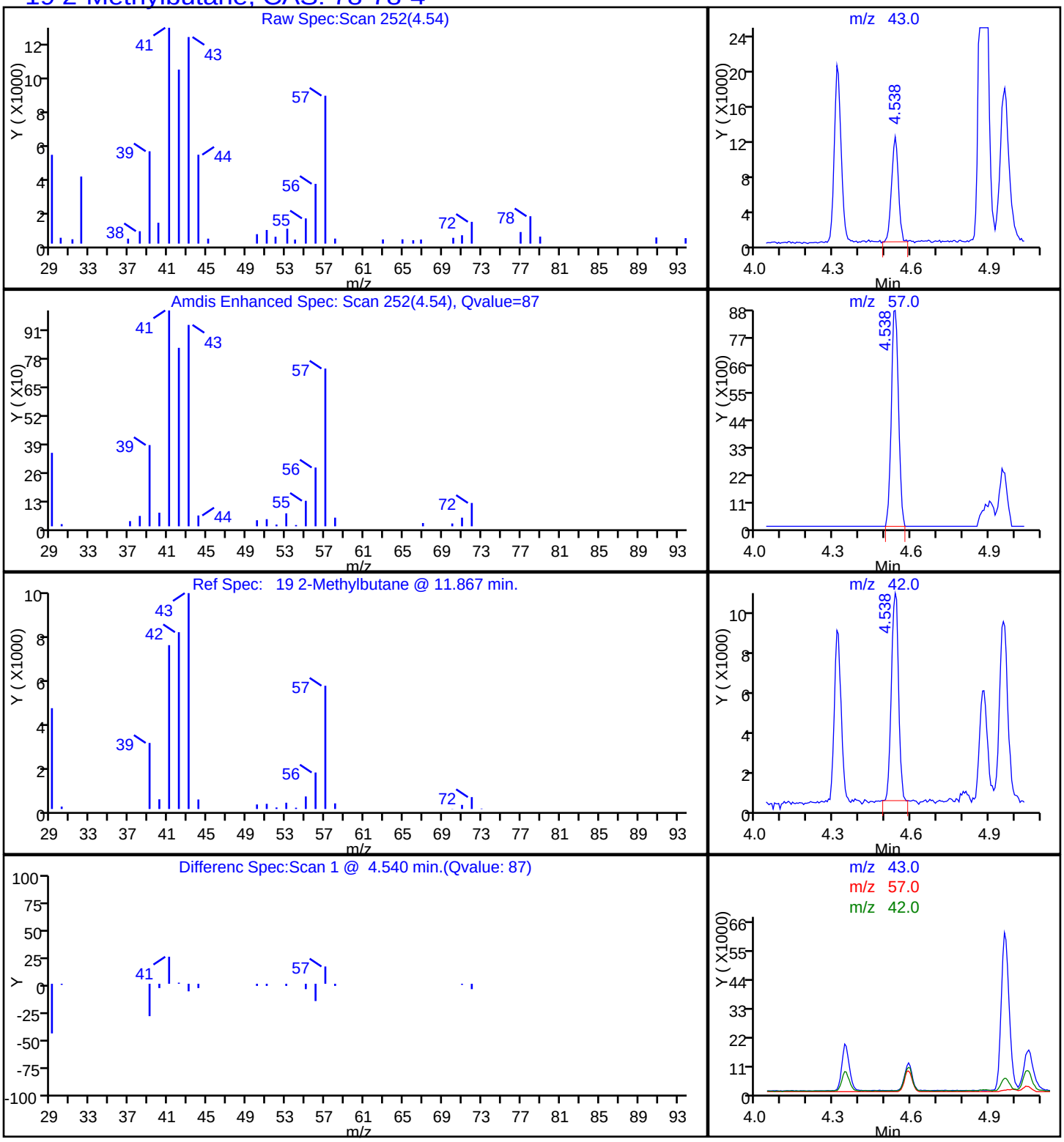
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date: 14-Mar-2014 16:24:30 Instrument ID: ME

Lims ID: 140-1041-A-3 Lab Sample ID: 140-1041-3

Client ID: PCV-IA1-B2

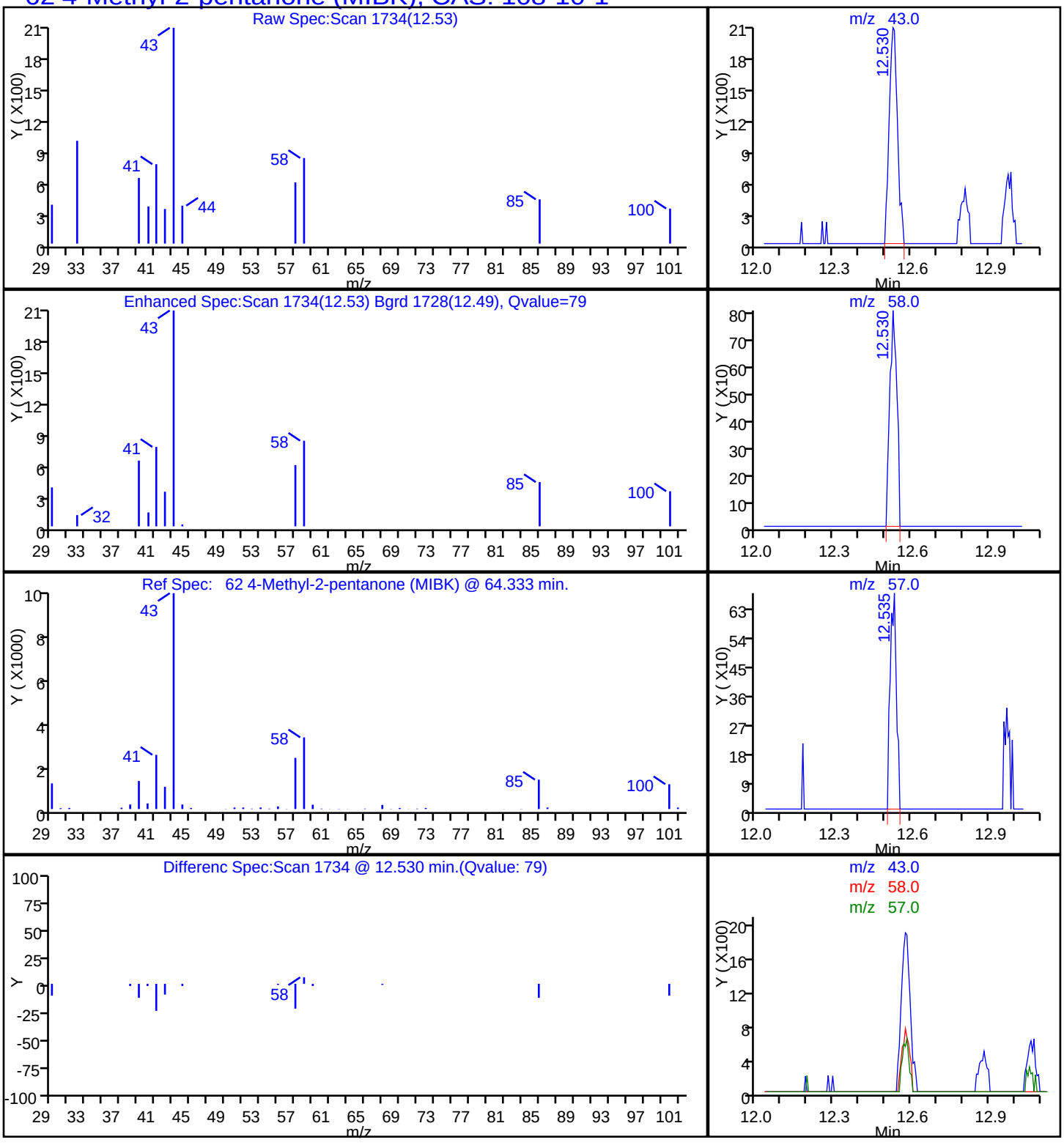
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



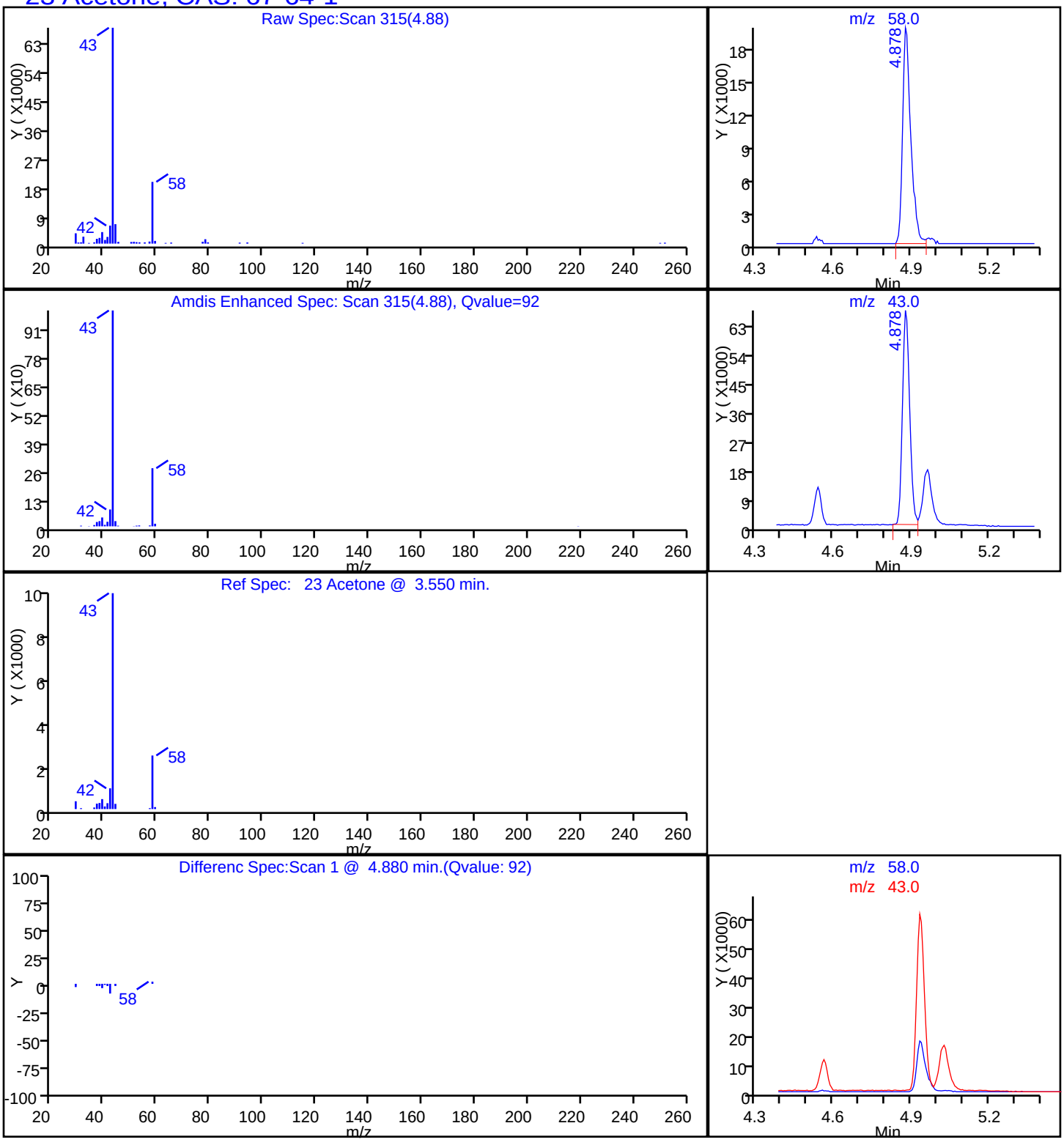
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



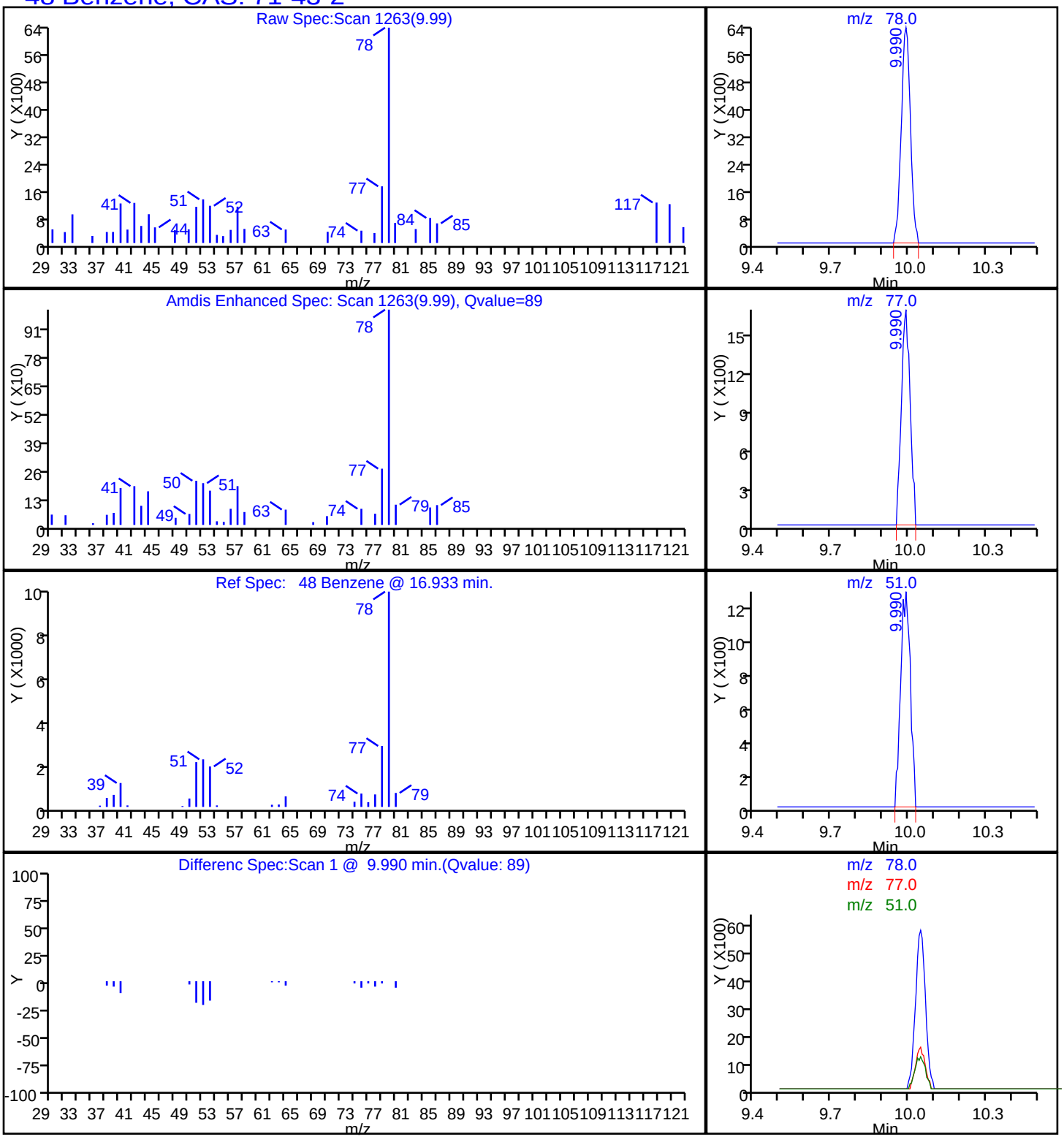
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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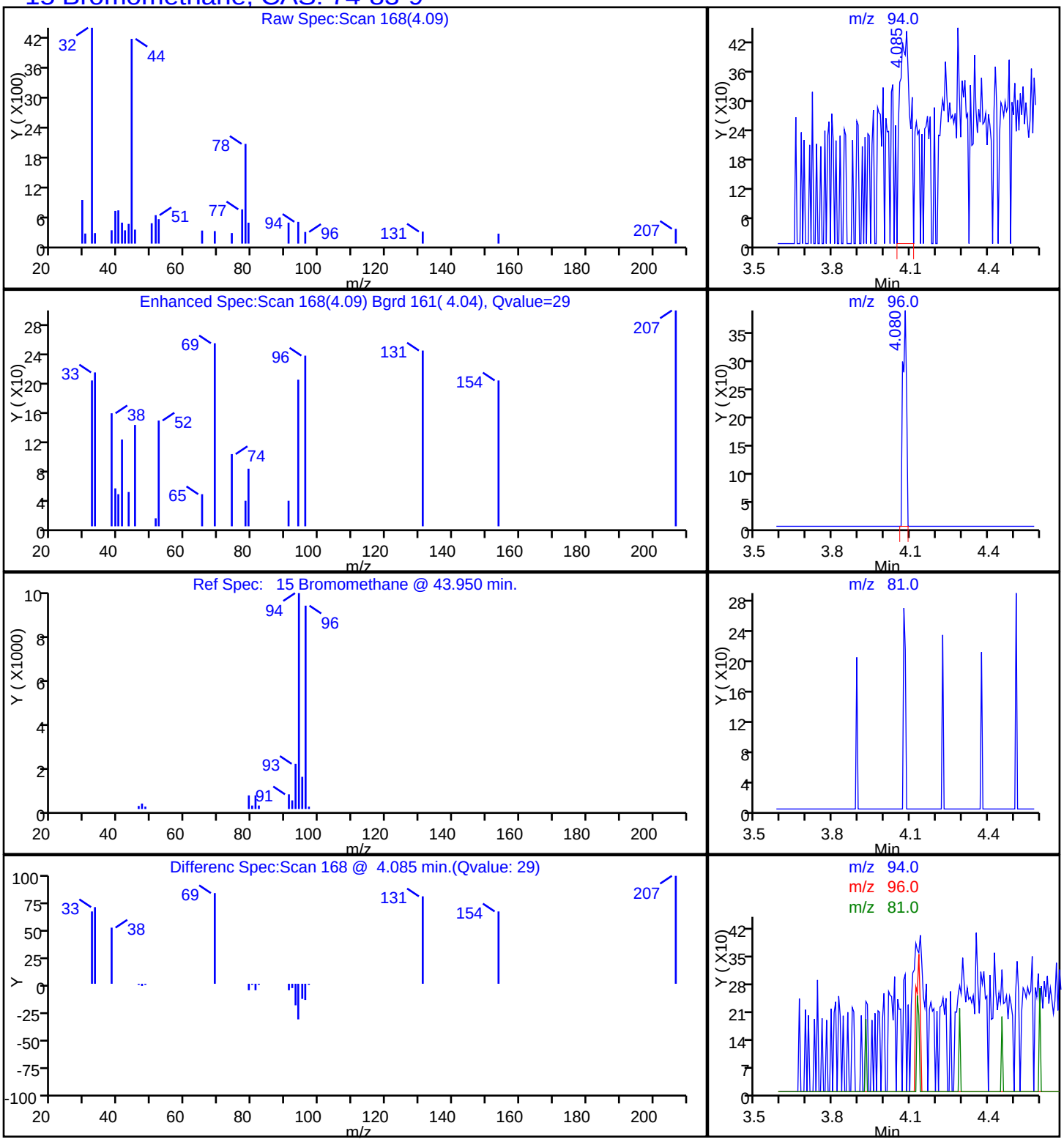
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D		
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



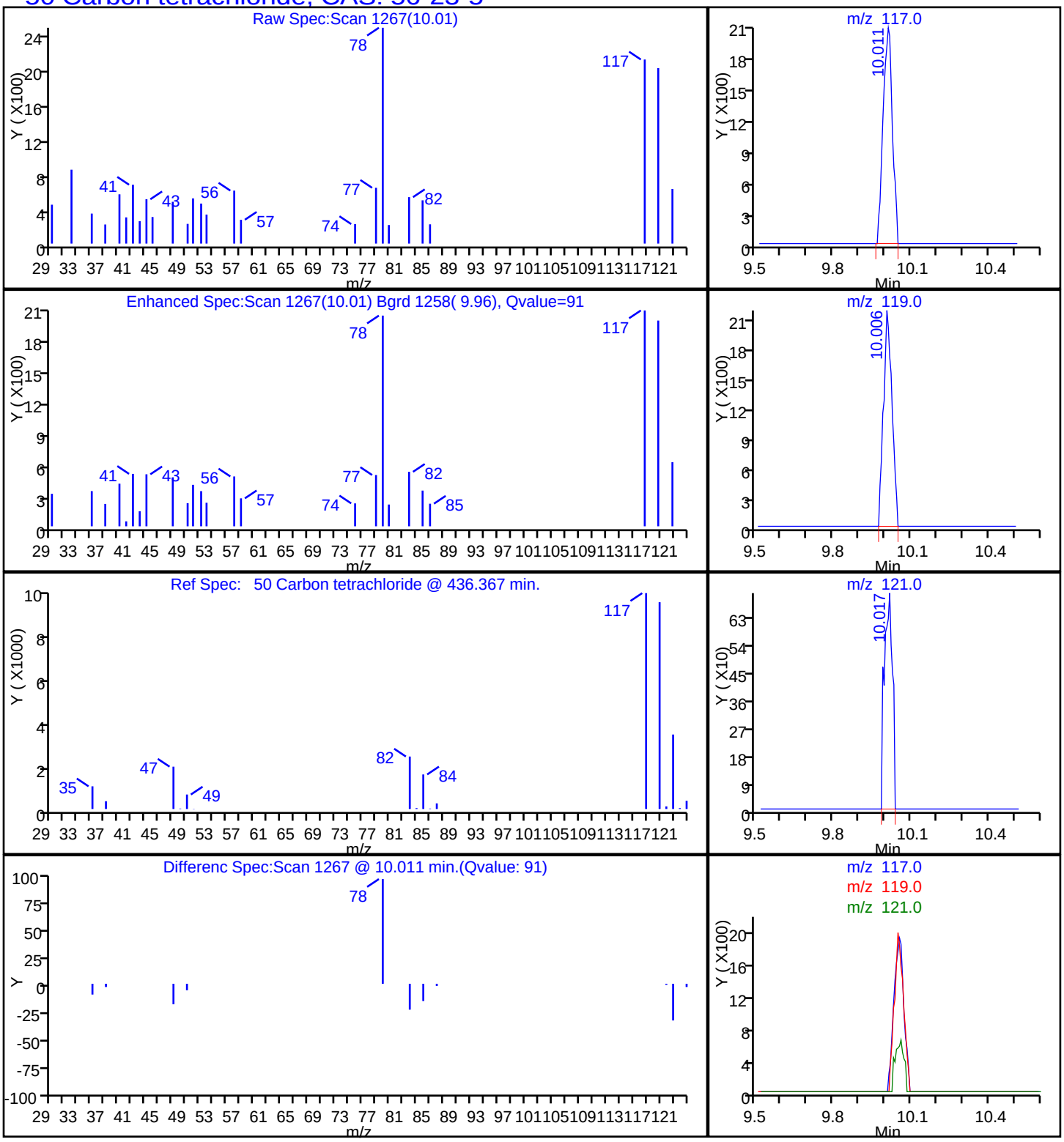
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

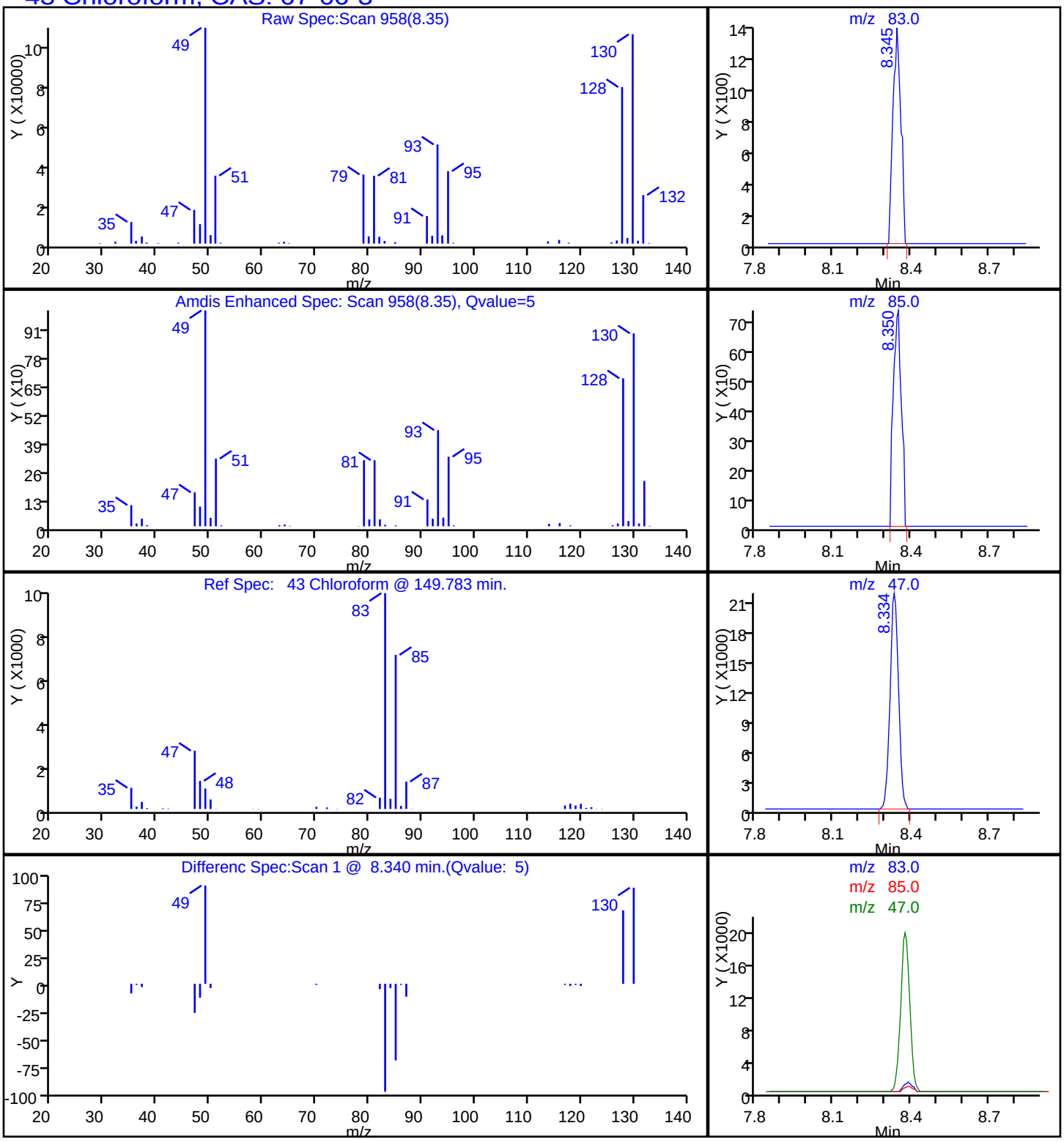


Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D		
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



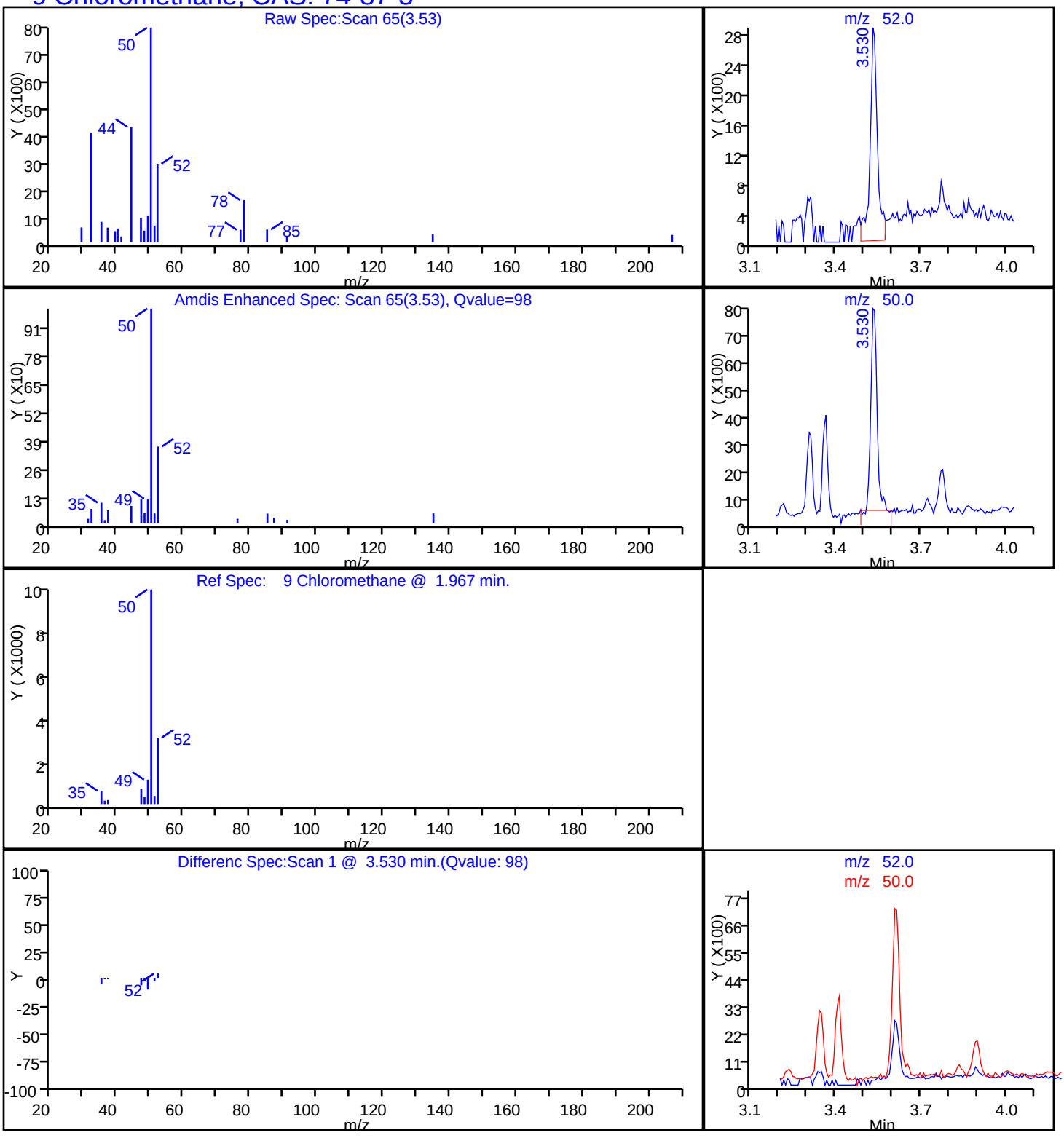
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

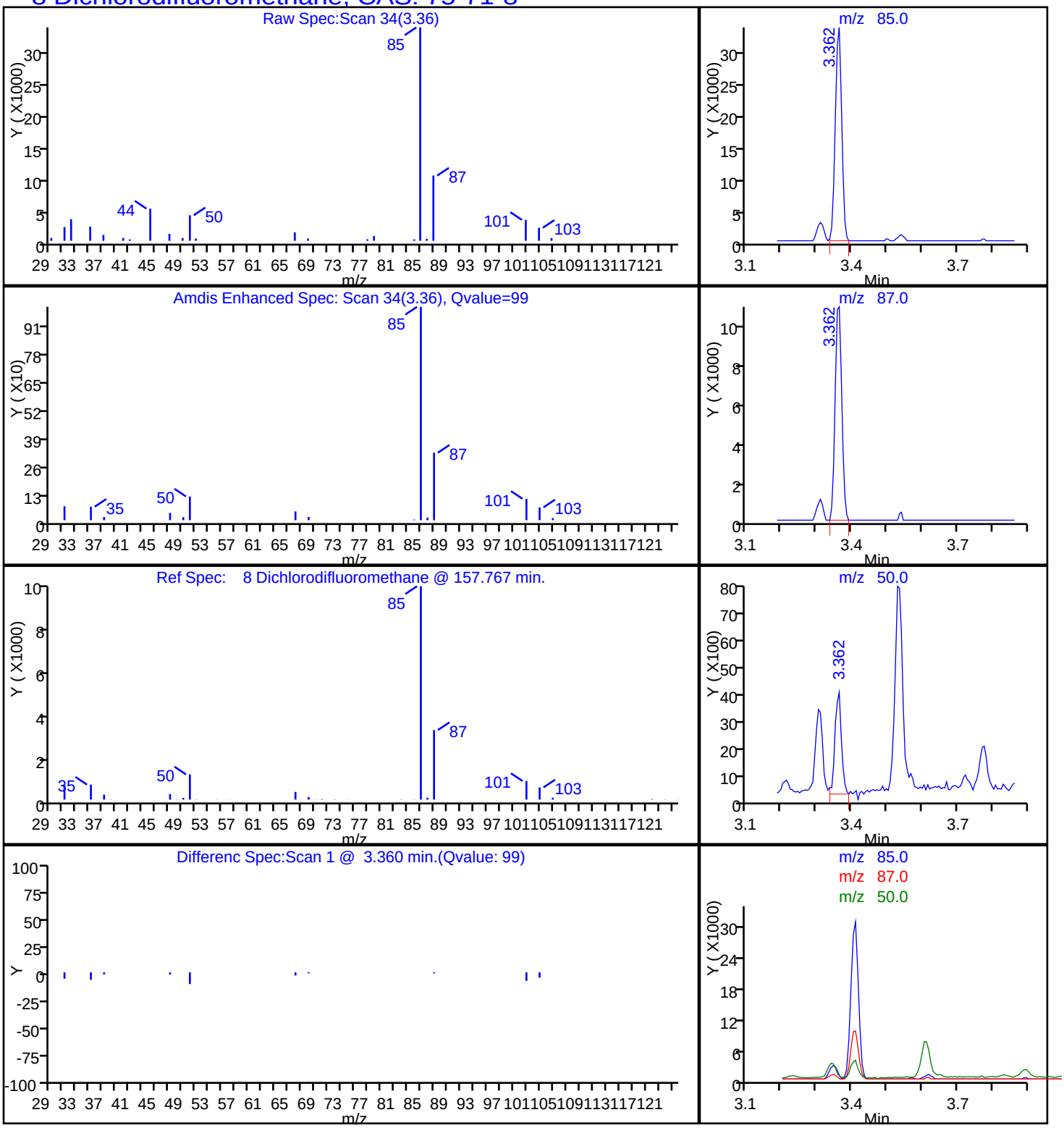
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D				
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

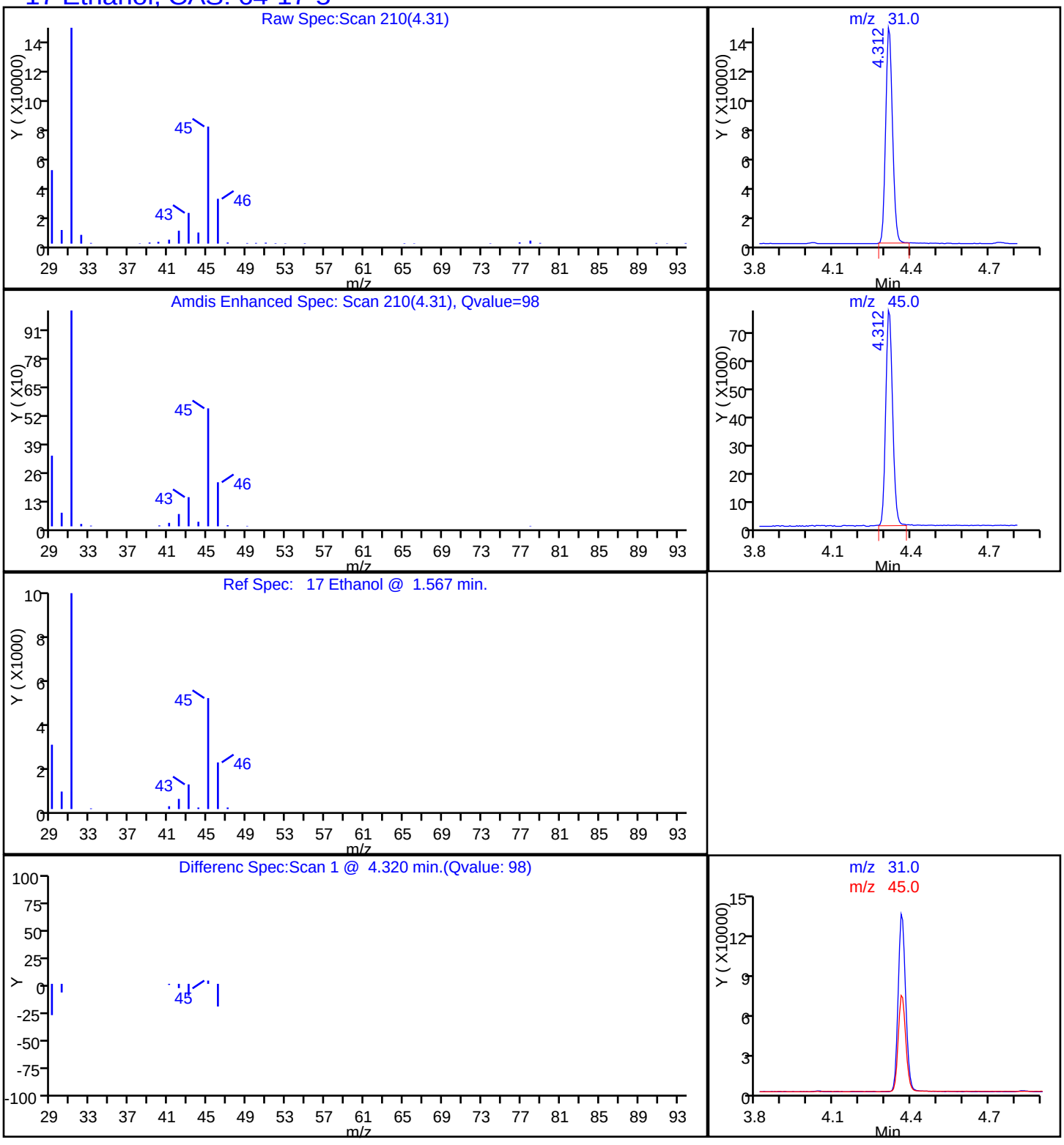
8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D		
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

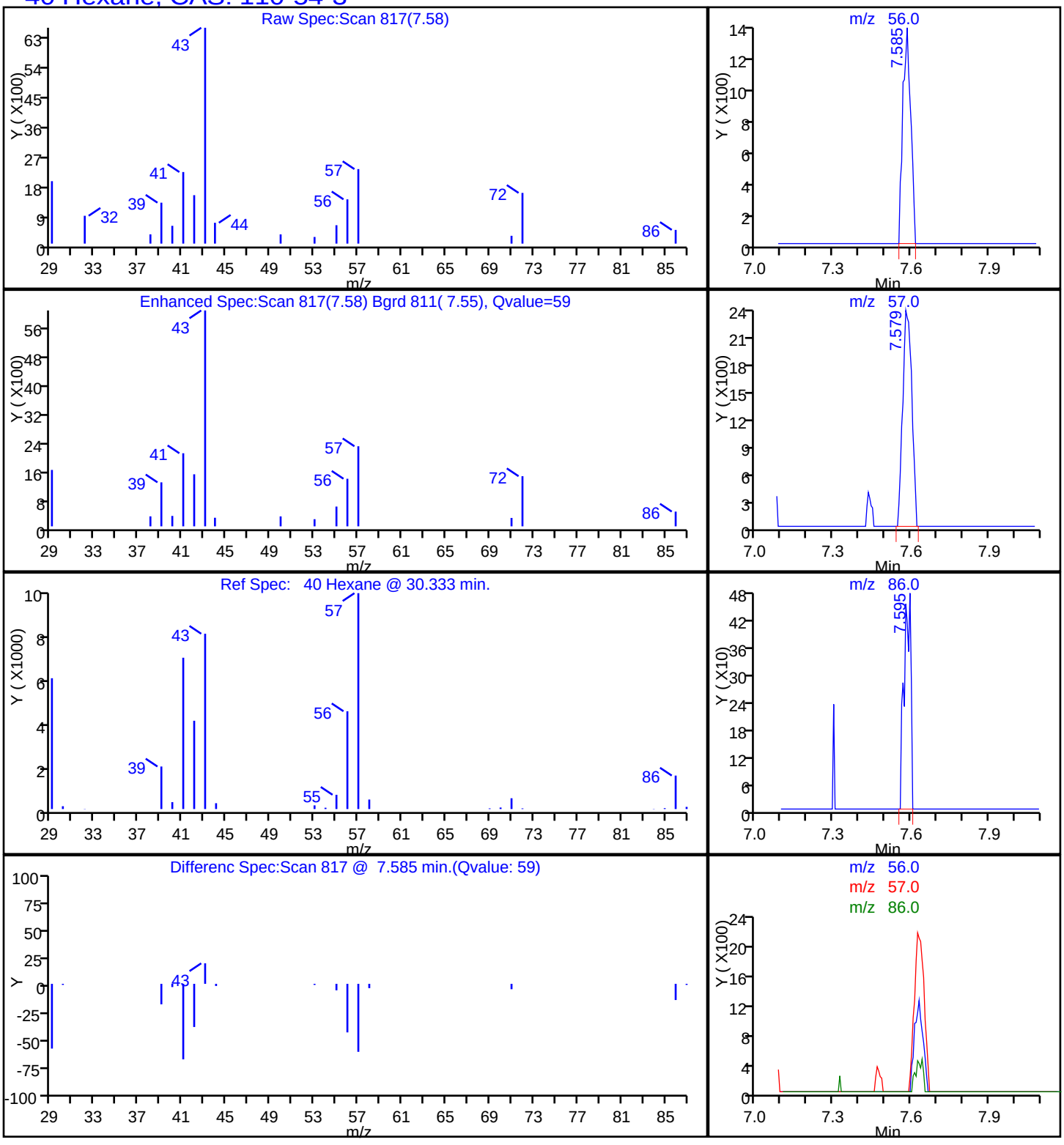
17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D		
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

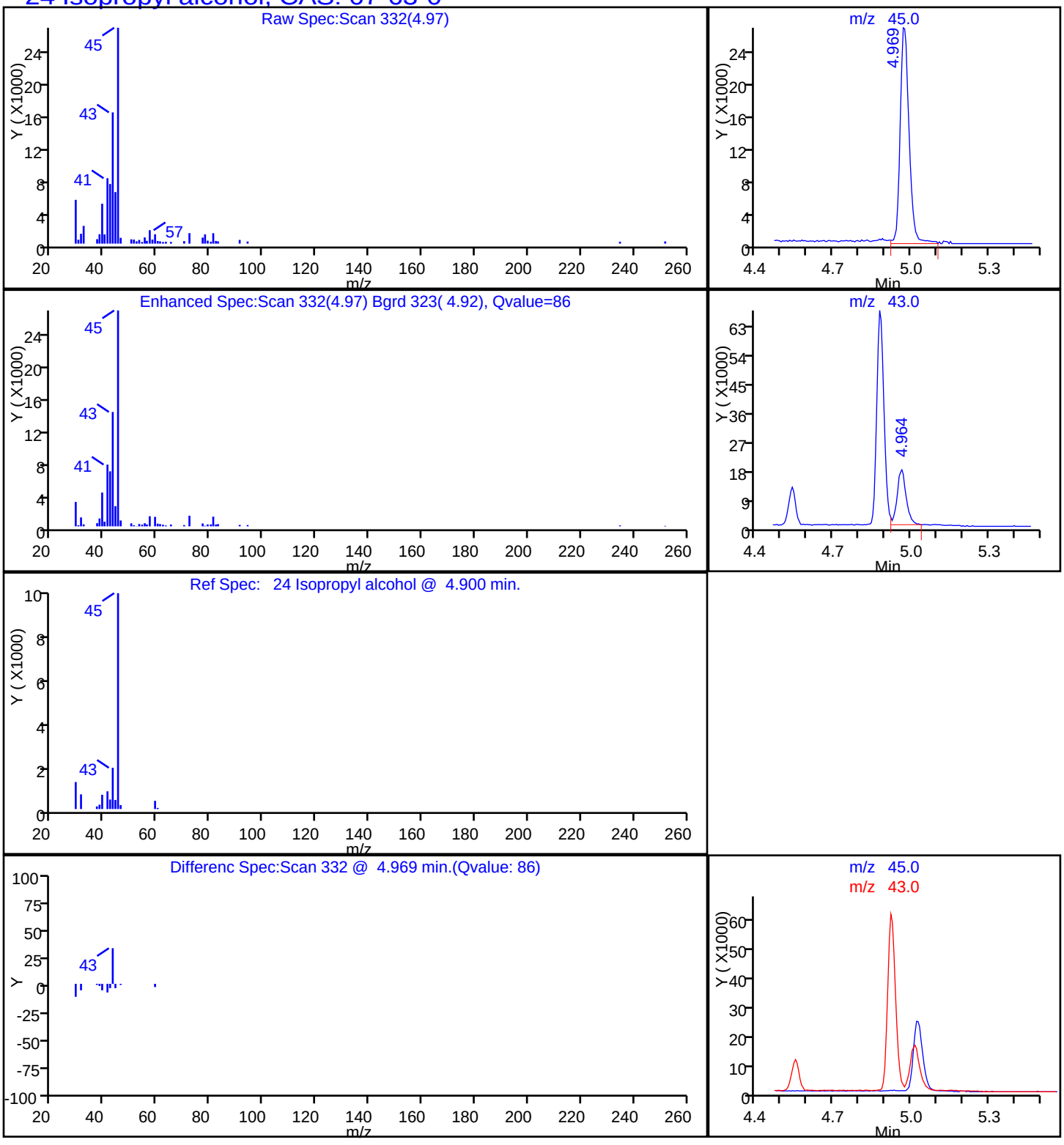
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D
Injection Date: 14-Mar-2014 16:24:30 Instrument ID: ME
Lims ID: 140-1041-A-3 Lab Sample ID: 140-1041-3
Client ID: PCV-IA1-B2
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



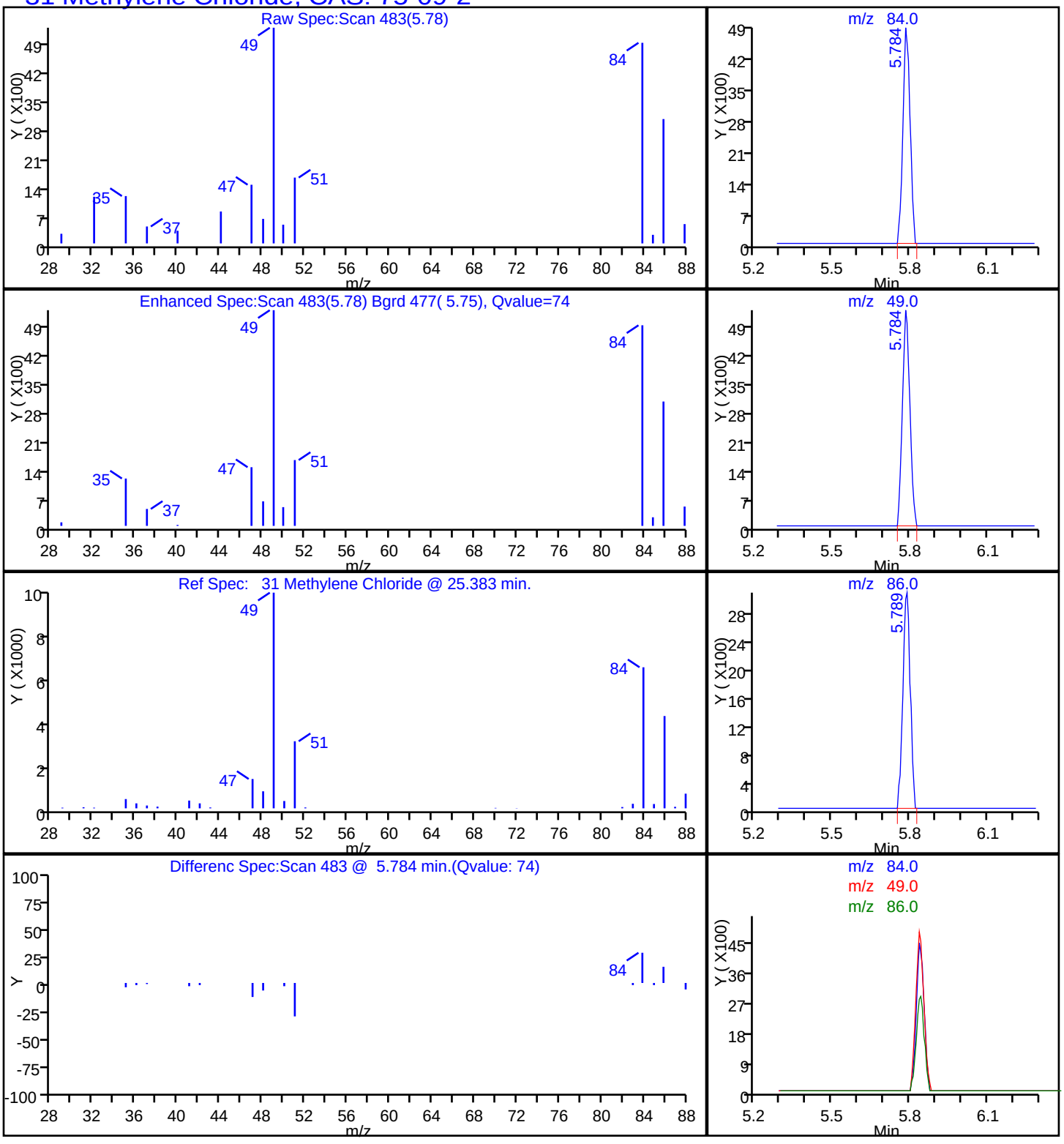
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



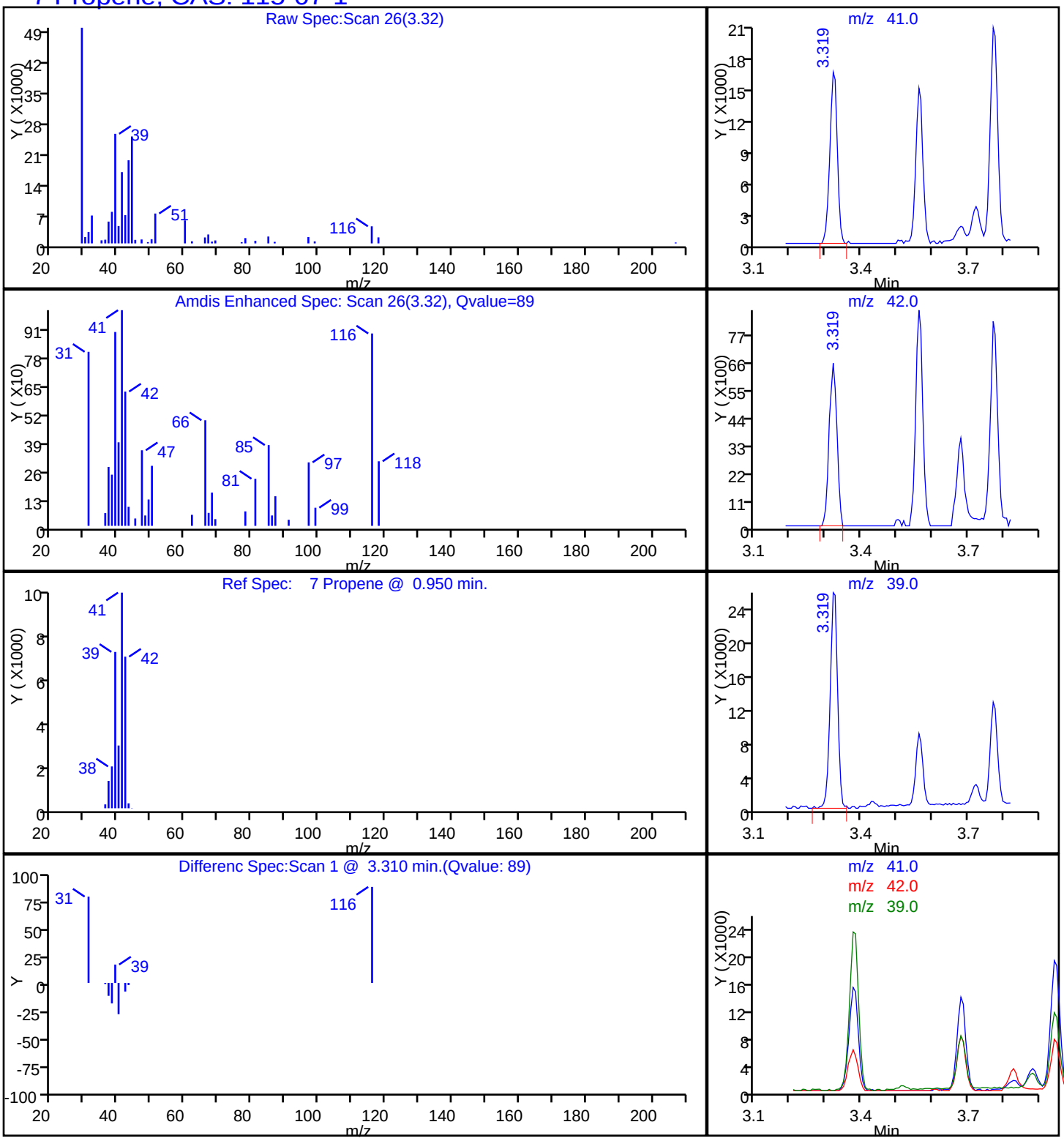
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



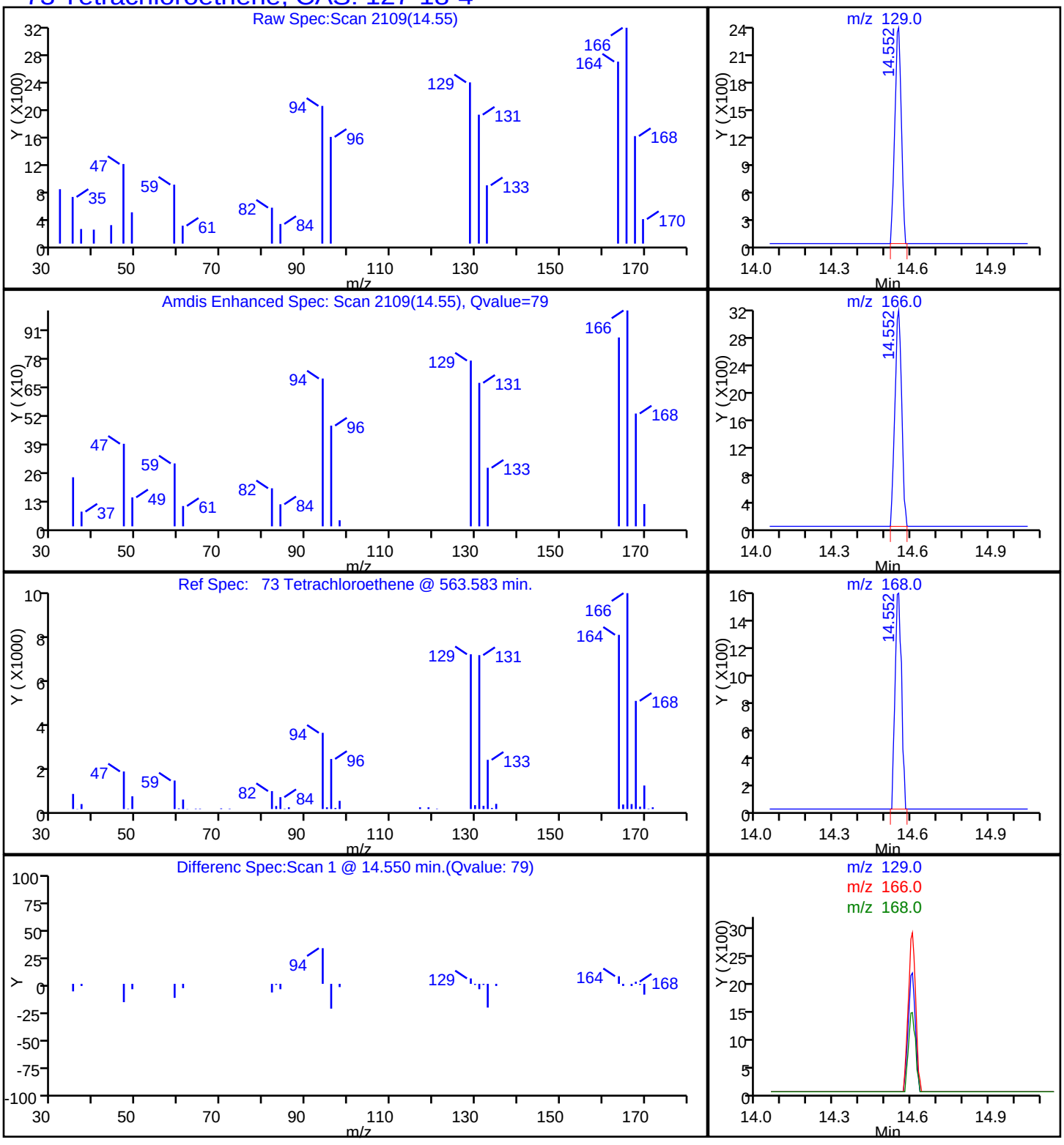
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

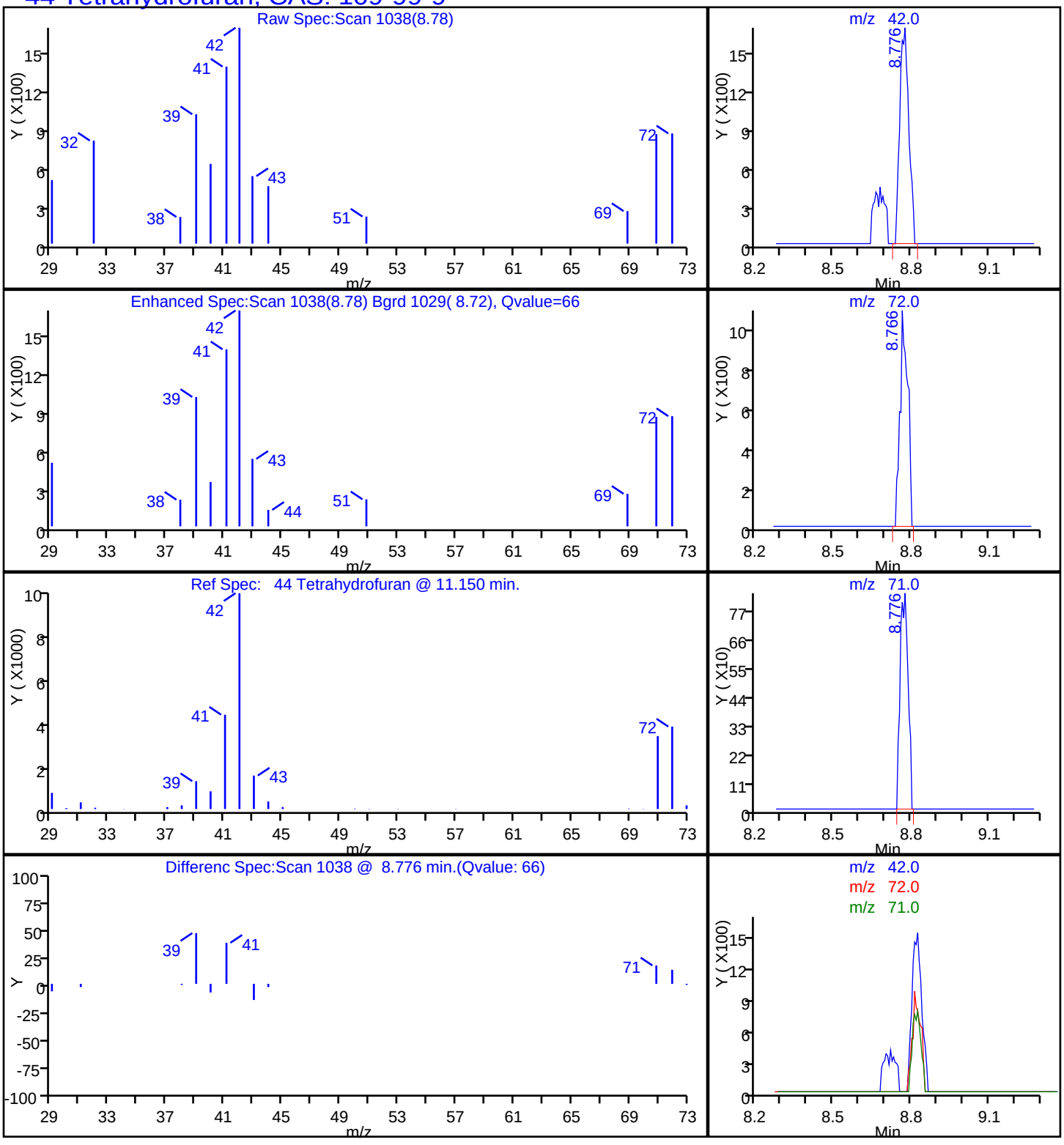


Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D				
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

44 Tetrahydrofuran, CAS: 109-99-9



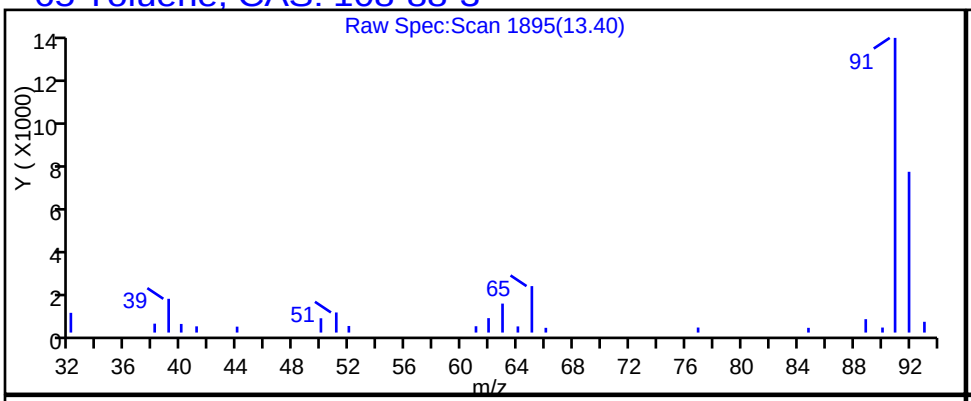
Report Date: 24-Mar-2014 15:47:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

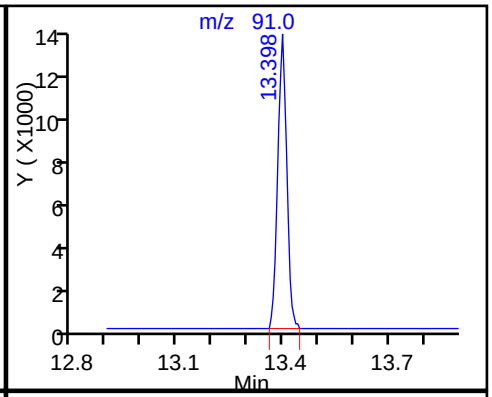
TestAmerica Knoxville

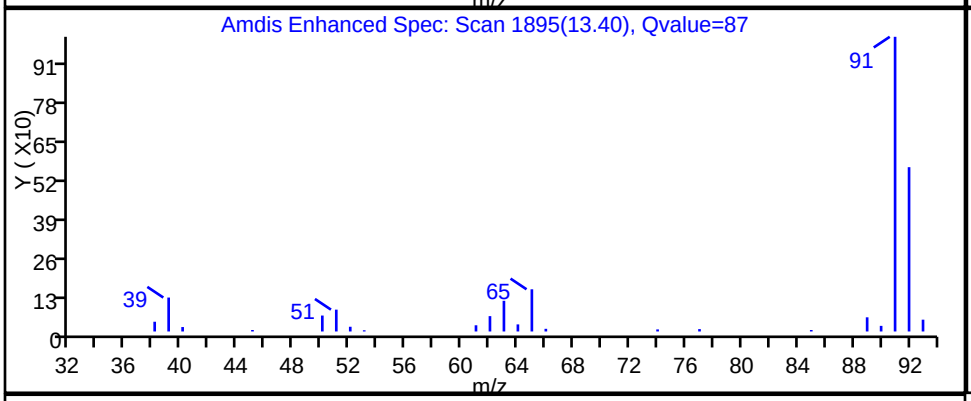
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D

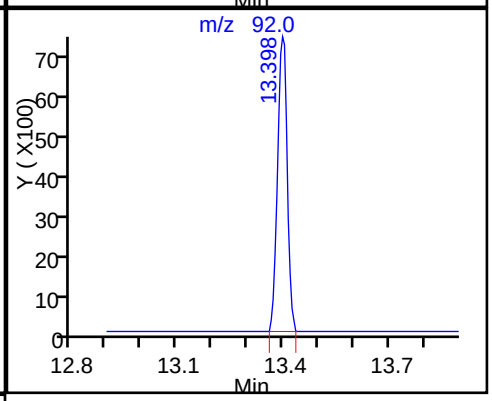
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3
Client ID:	PCV-IA1-B2		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

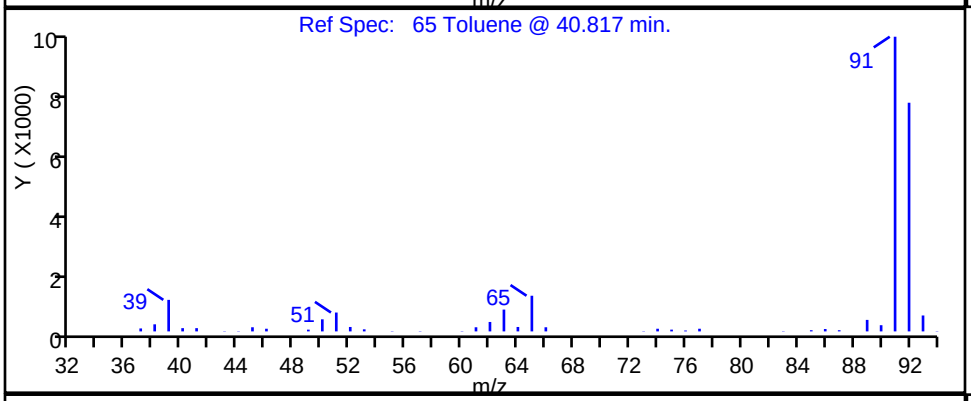
65 Toluene, CAS: 108-88-3

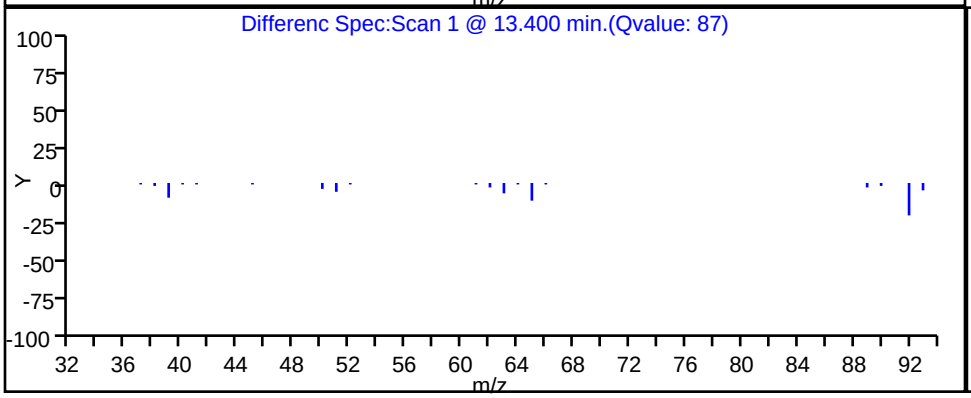


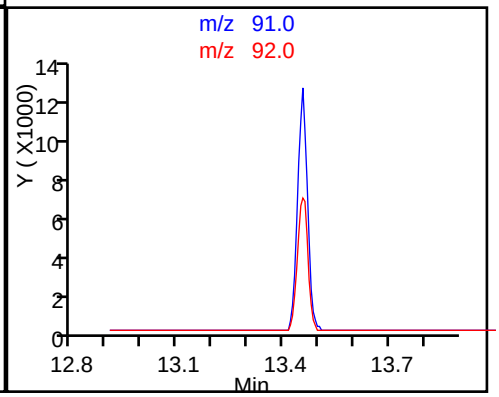








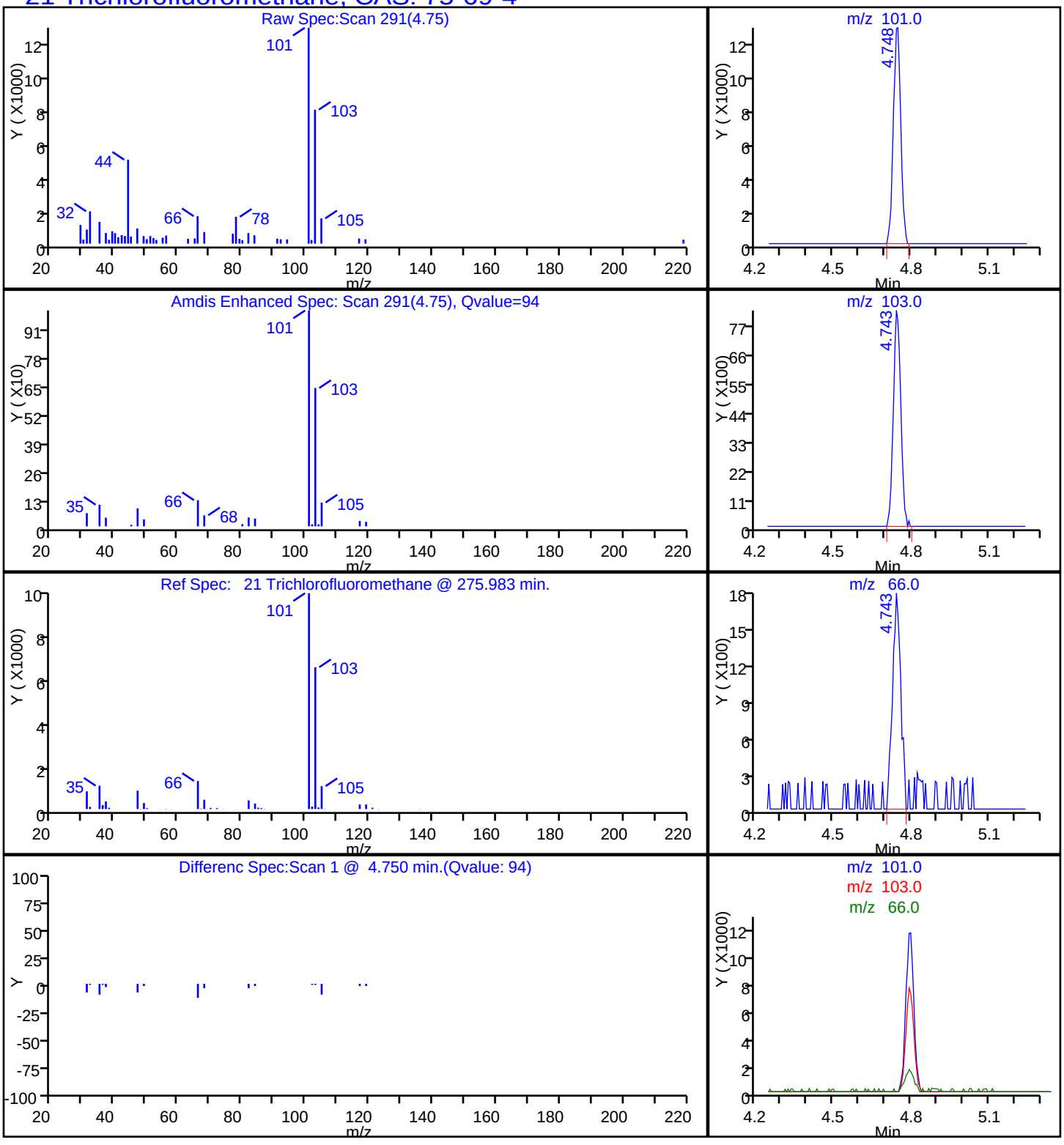




TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P103.D				
Injection Date:	14-Mar-2014 16:24:30	Instrument ID:	ME		
Lims ID:	140-1041-A-3	Lab Sample ID:	140-1041-3		
Client ID:	PCV-IA1-B2				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.041	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.26	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.070	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.052	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.63		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.48		0.20	0.068
64-17-5	Ethanol	46.07	22		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.053	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.35	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.19	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.25		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.76	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	8.4	J	12	3.3
71-43-2	Benzene	78.11	0.61	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.22	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	41		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.48	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.8		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.2	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.3	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.95		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B2 Lab Sample ID: 140-1041-4

Matrix: Air Lab File ID: EC14P104.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:36

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D
Lims ID: 140-1041-A-4 Lab Sample ID: 140-1041-4
Client ID: PCV-IA2-B2
Sample Type: Client
Inject. Date: 14-Mar-2014 17:10:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-4
Misc. Info.: E031414,TO155,,140-0000522-009
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:48:08 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:25:04

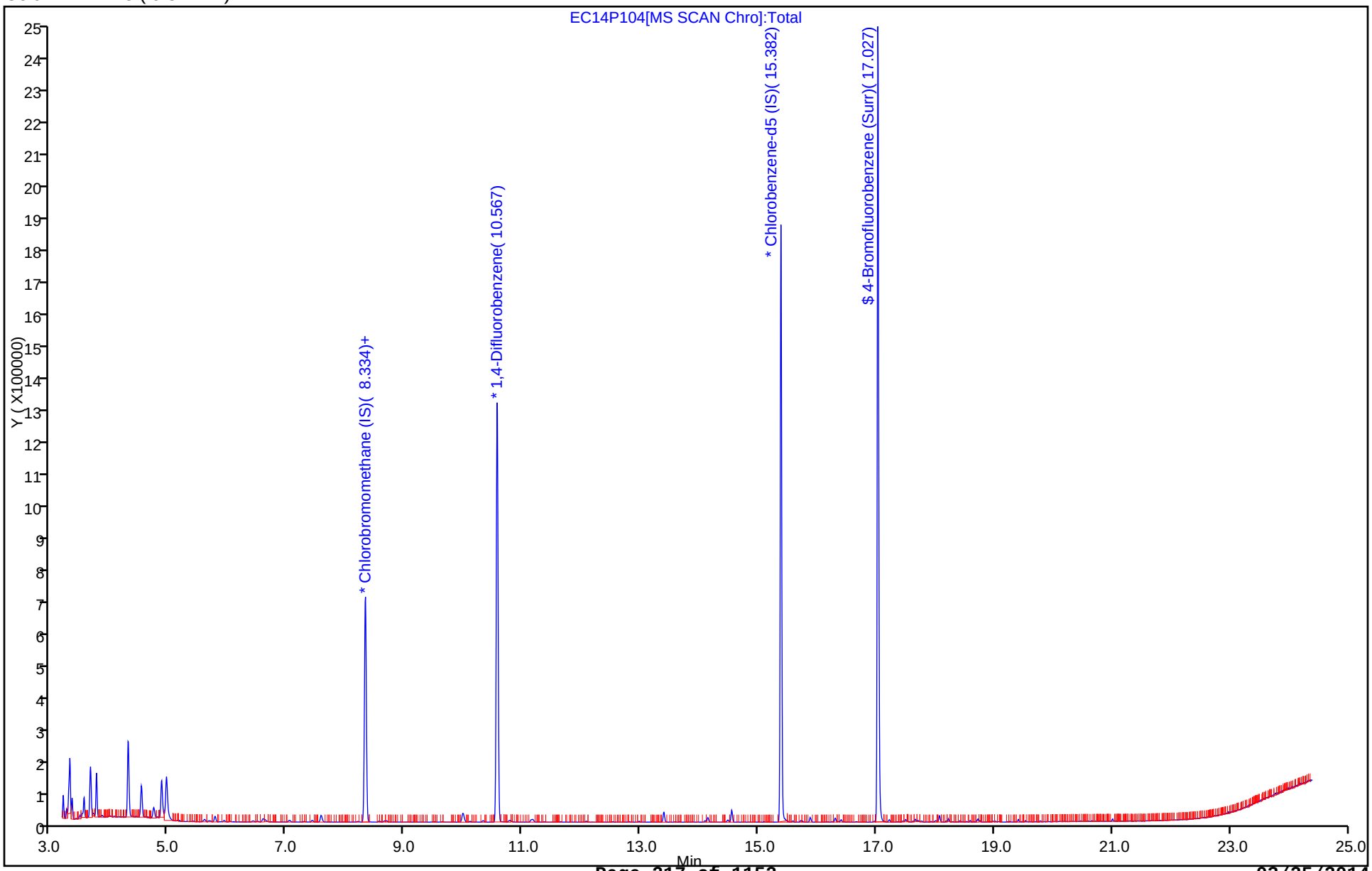
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	200541	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	1001233	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	876431	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	813857	4.24	
7 Propene	41	3.320	3.314	0.006	73	23846	0.4727	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	42571	0.1919	
9 Chloromethane	52	3.530	3.530	0.0	89	4476	0.2528	
17 Ethanol	31	4.306	4.317	-0.011	98	175615	8.76	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	32502	0.4628	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	92	25392	0.1141	
23 Acetone	58	4.878	4.883	-0.005	93	43098	1.42	
24 Isopropyl alcohol	45	4.970	4.975	-0.005	88	74099	0.9475	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	63	3794	0.0275	
31 Methylene Chloride	84	5.784	5.795	-0.011	75	7916	0.1381	
33 Carbon disulfide	76	5.935	5.940	-0.005	82	5806	0.0280	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	90	3405	0.1037	
40 Hexane	56	7.574	7.590	-0.016	64	2885	0.0541	
43 Chloroform	83	8.340	8.356	-0.016	6	3564	0.0207	
48 Benzene	78	9.985	9.995	-0.010	89	15393	0.0764	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	85	5234	0.0270	
53 Isooctane	57	10.783	10.788	-0.005	71	5130	0.0165	
54 n-Heptane	71	11.182	11.182	0.0	55	1614	0.0212	
65 Toluene	91	13.398	13.403	-0.005	88	23646	0.1007	
73 Tetrachloroethene	129	14.547	14.552	-0.006	81	7461	0.0746	

Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D				
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4	Worklist Smp#:	9
Client ID:	PCV-IA2-B2				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date: 14-Mar-2014 17:10:30 Instrument ID: ME

Lims ID: 140-1041-A-4 Lab Sample ID: 140-1041-4

Client ID: PCV-IA2-B2

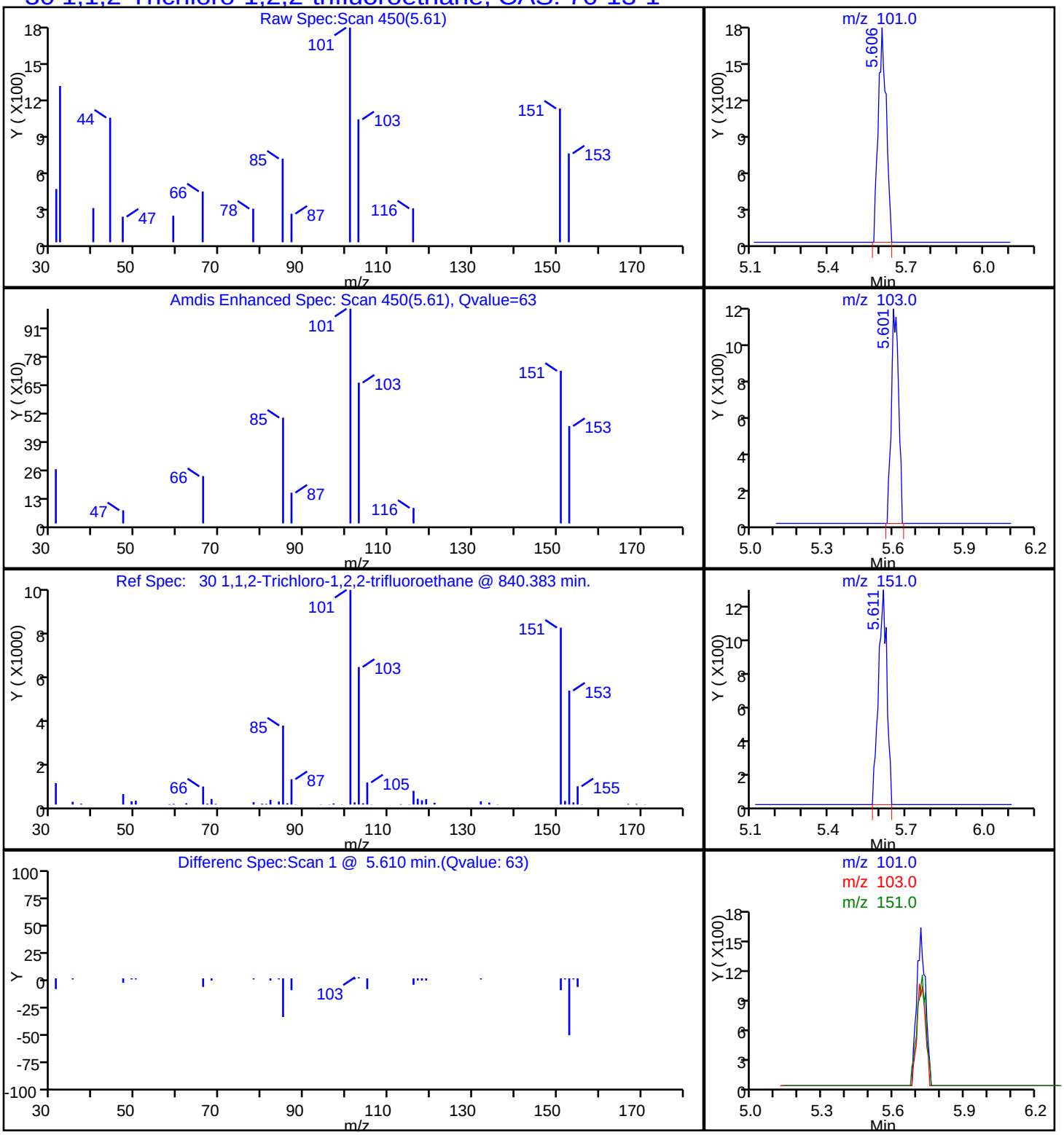
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

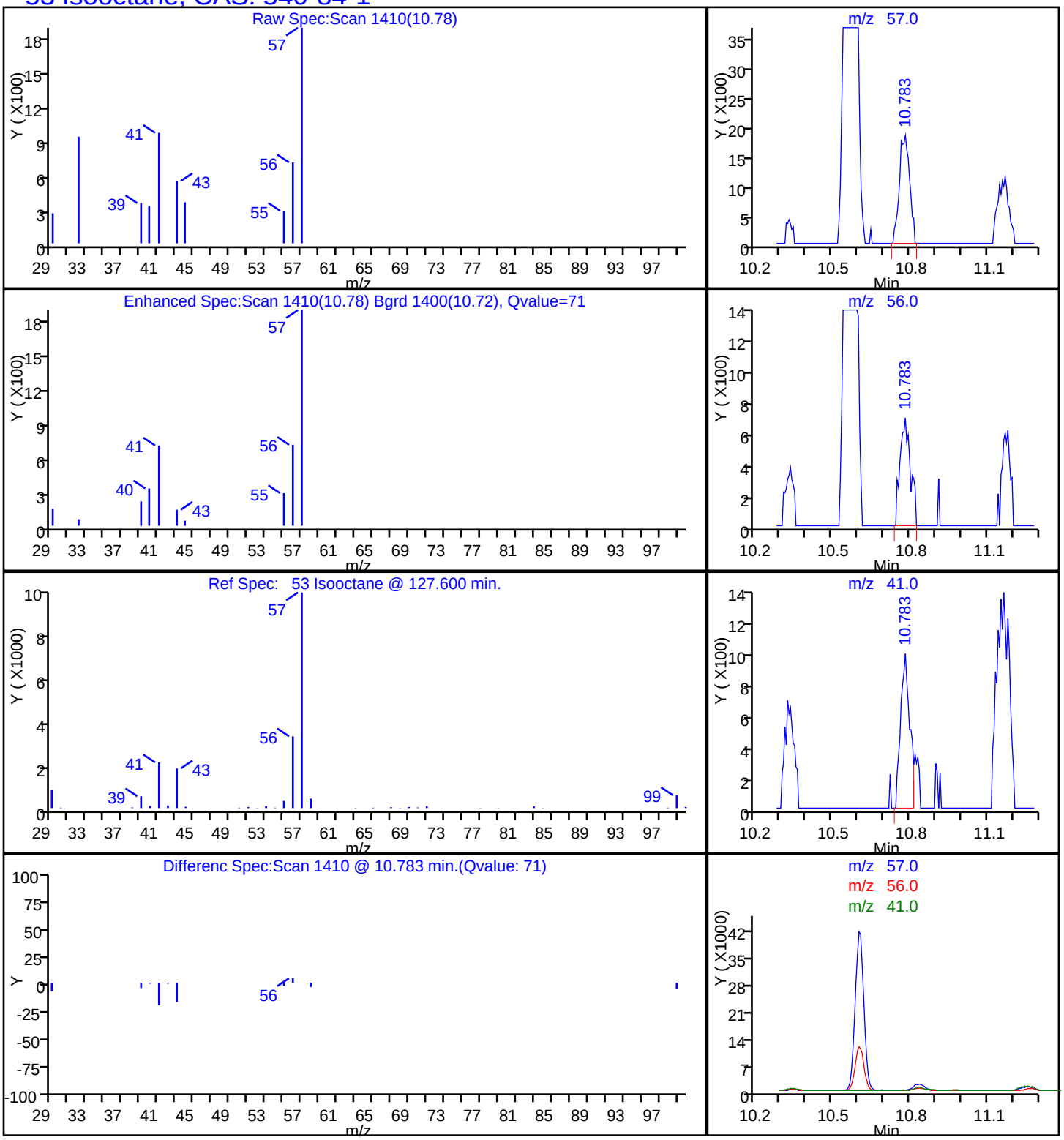


Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D				
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

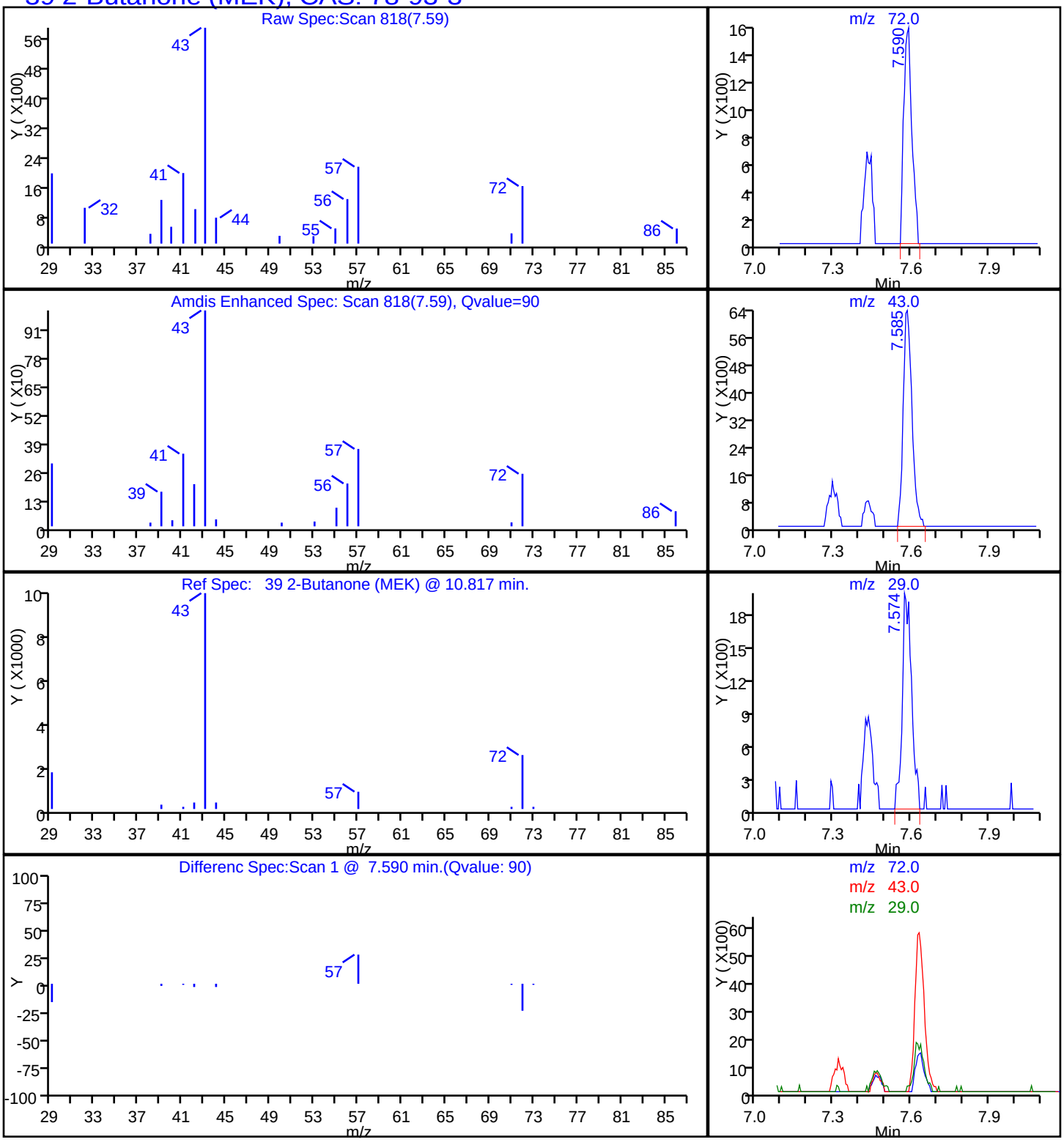
53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D				
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



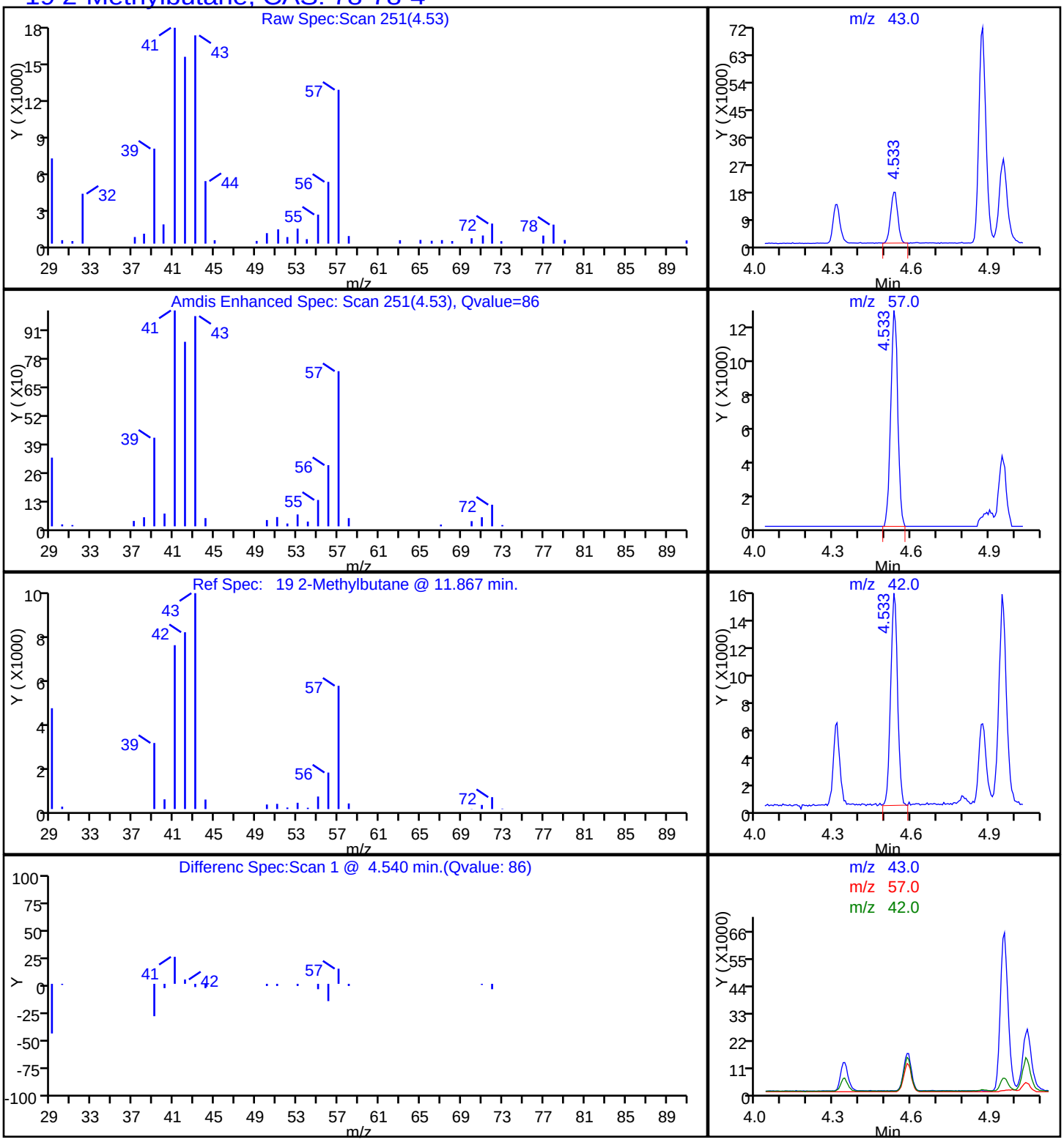
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



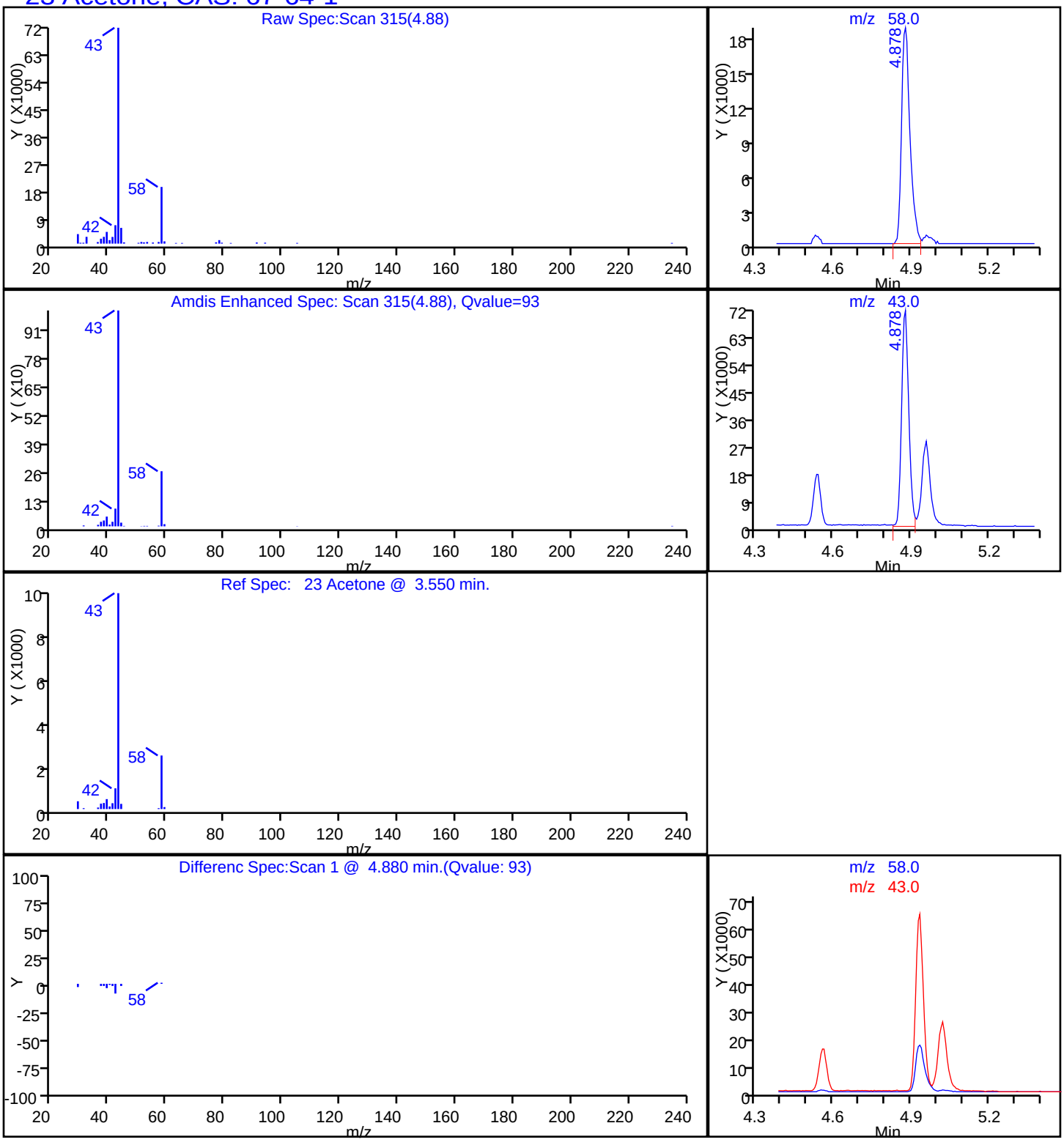
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

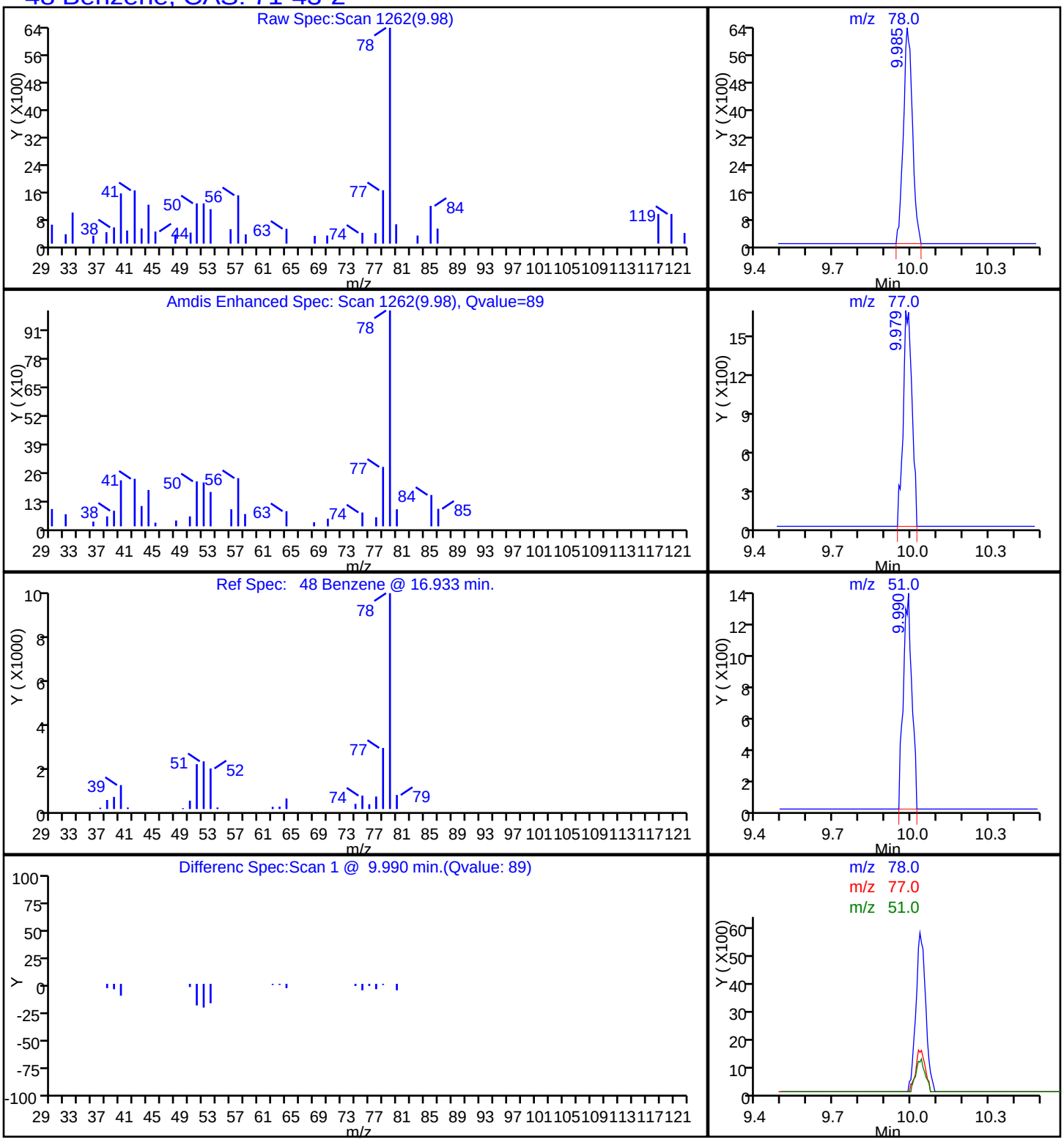


Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D				
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2

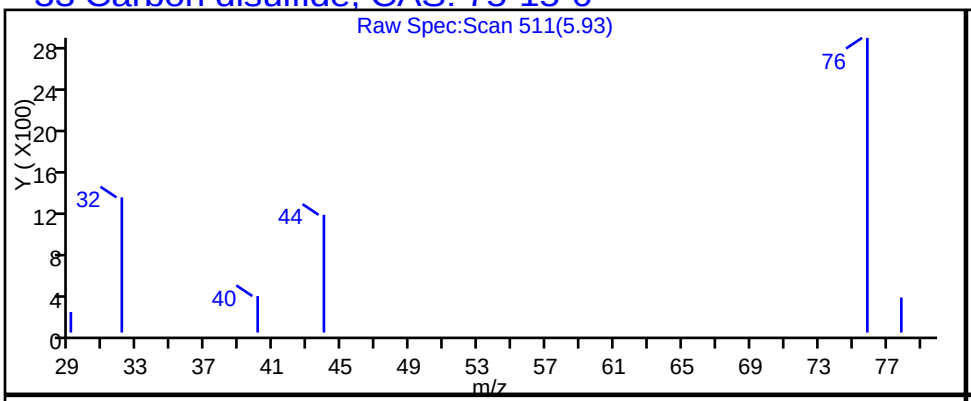


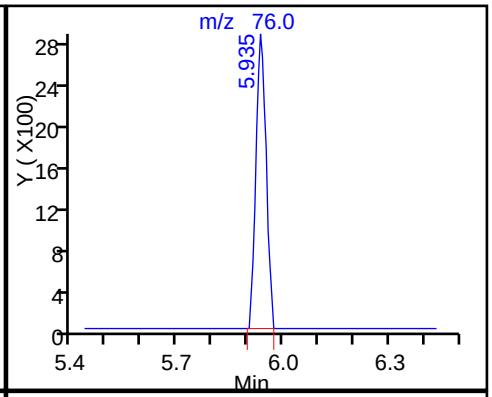
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

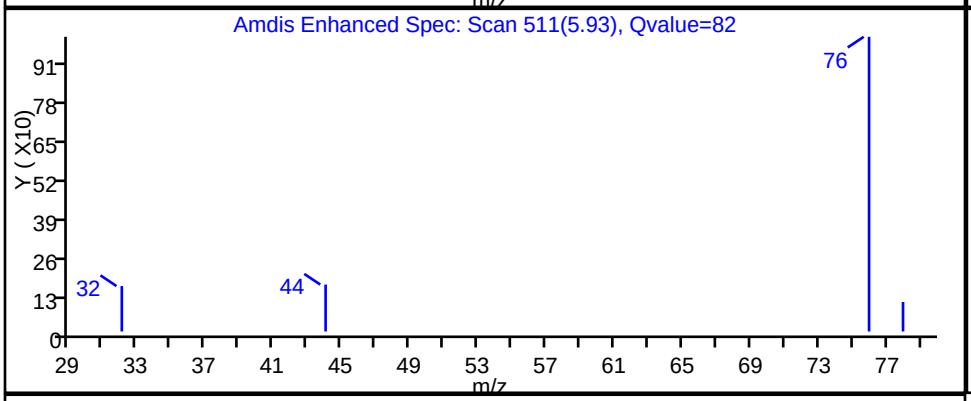
TestAmerica Knoxville

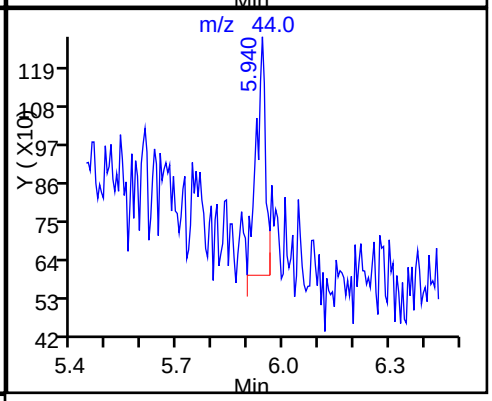
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D		
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

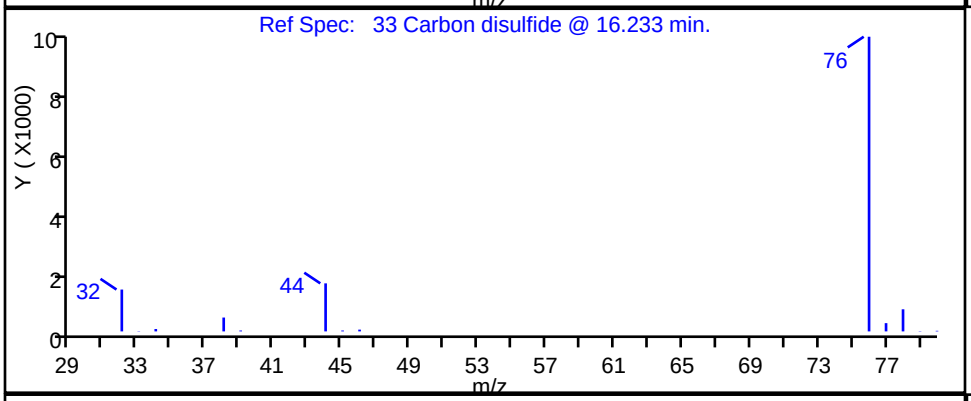
33 Carbon disulfide, CAS: 75-15-0

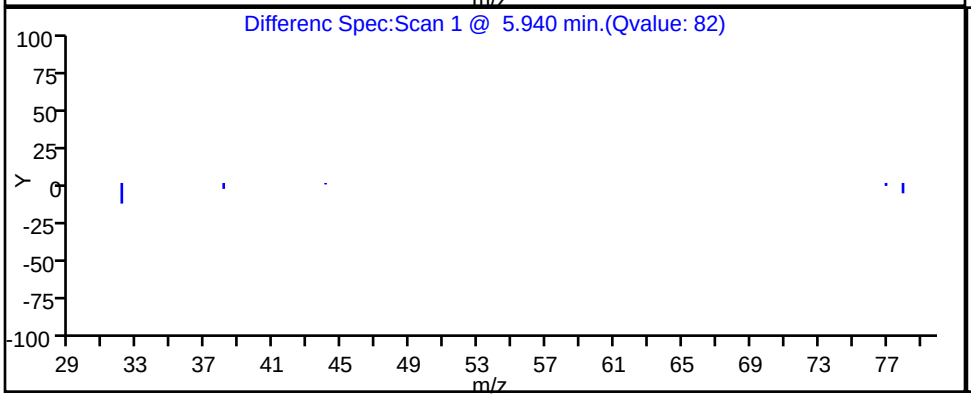


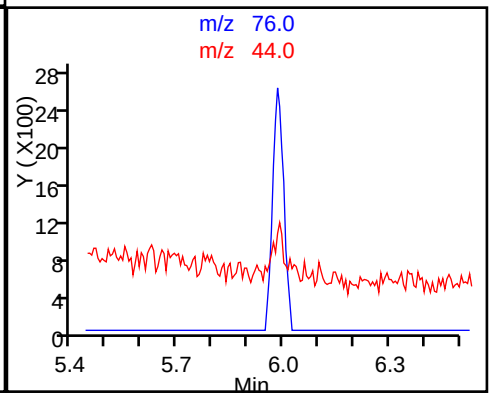












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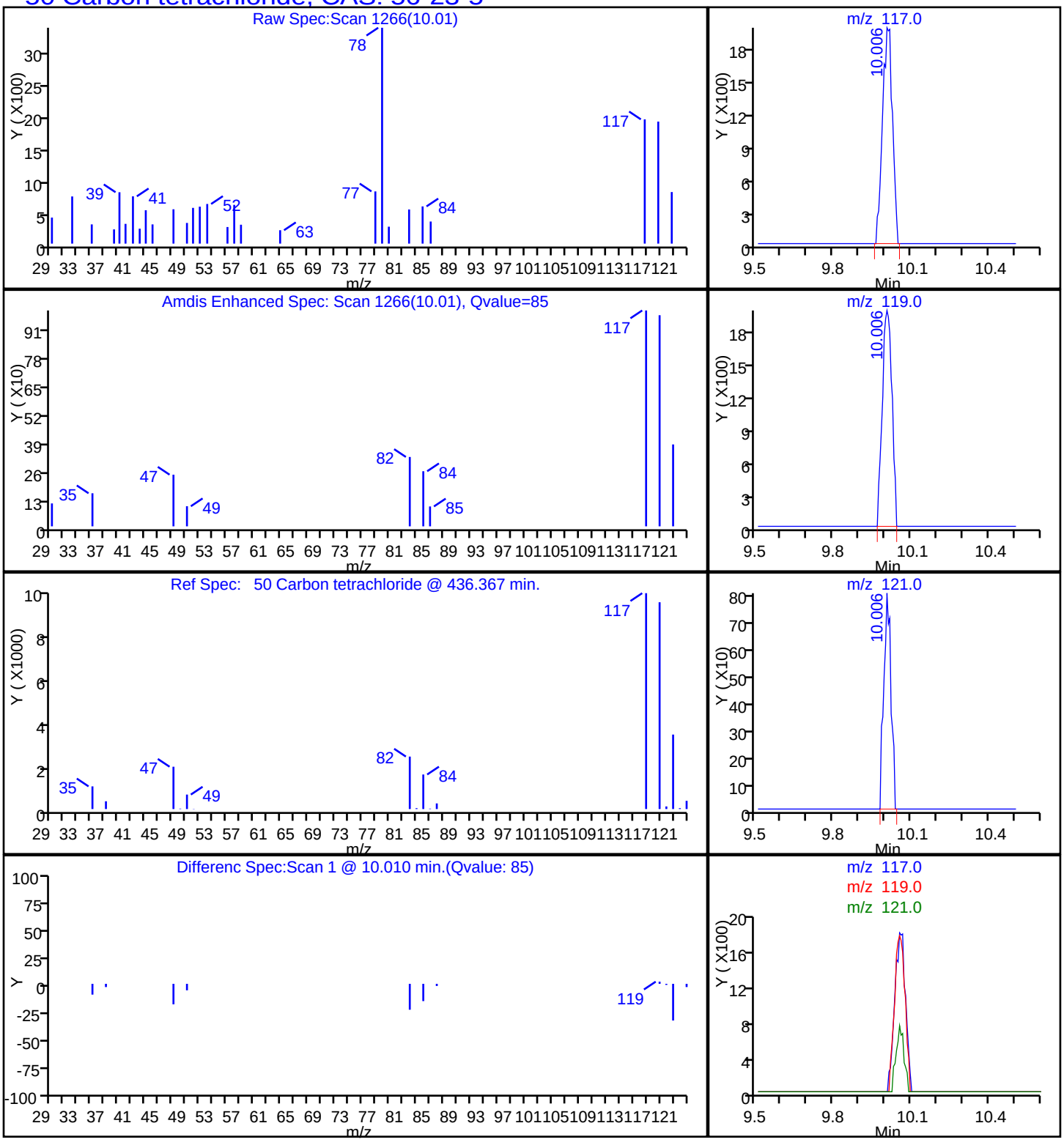
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D		
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date: 14-Mar-2014 17:10:30 Instrument ID: ME

Lims ID: 140-1041-A-4 Lab Sample ID: 140-1041-4

Client ID: PCV-IA2-B2

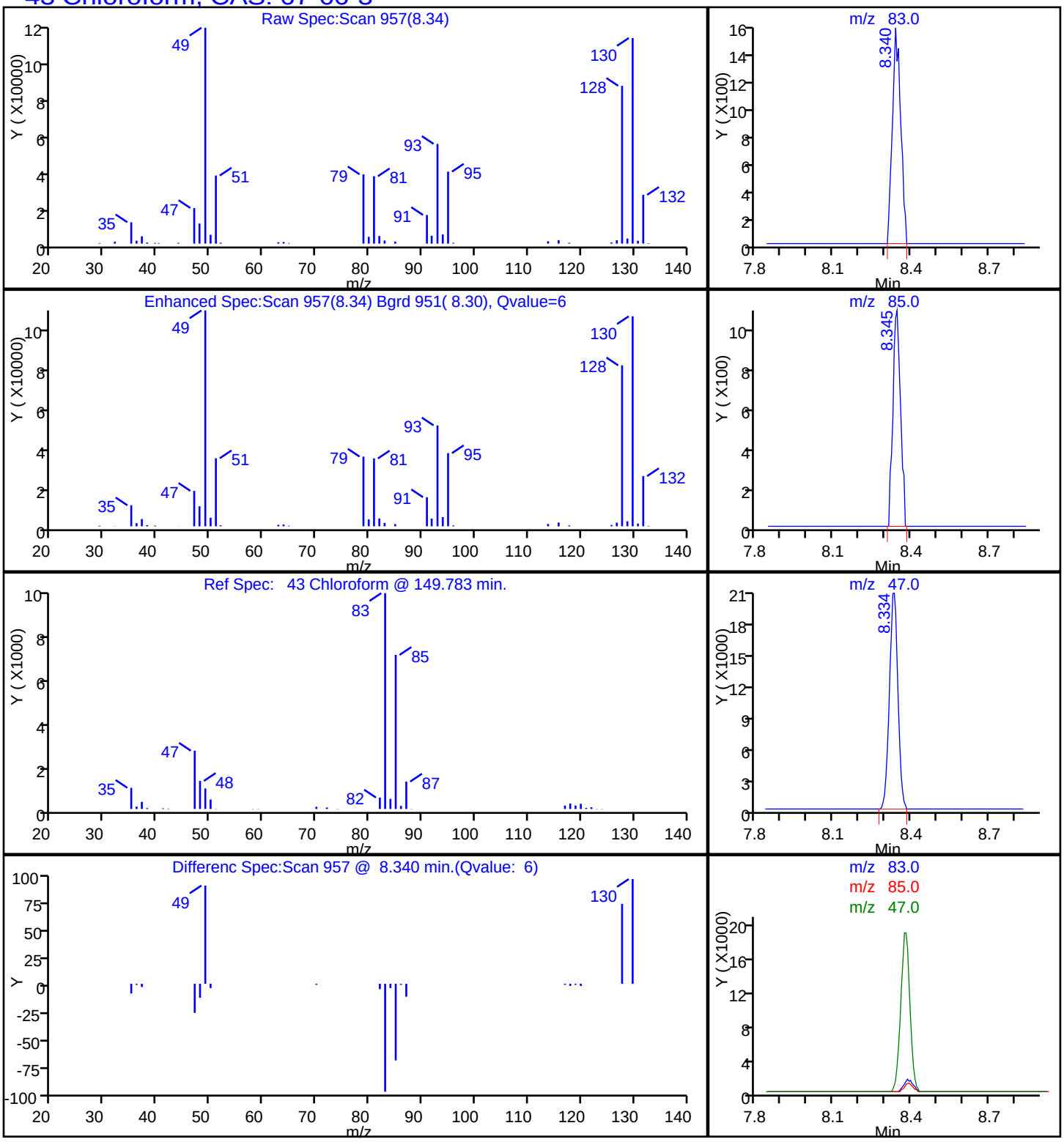
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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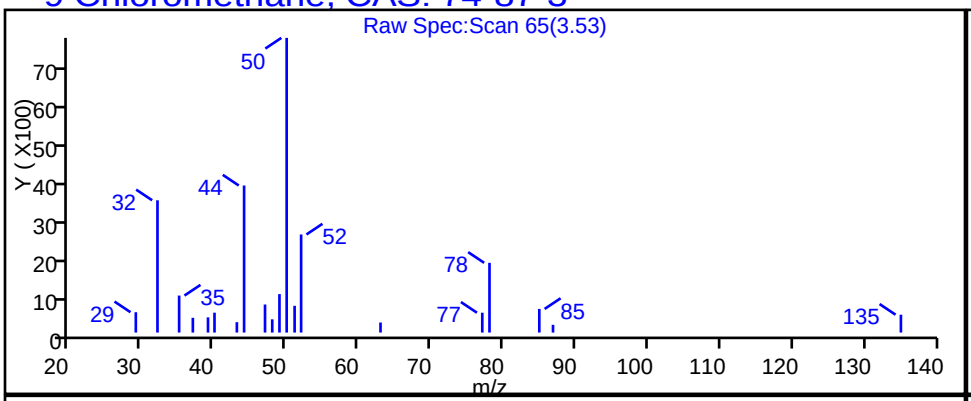
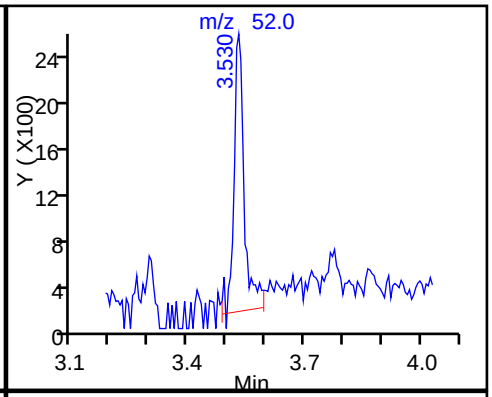
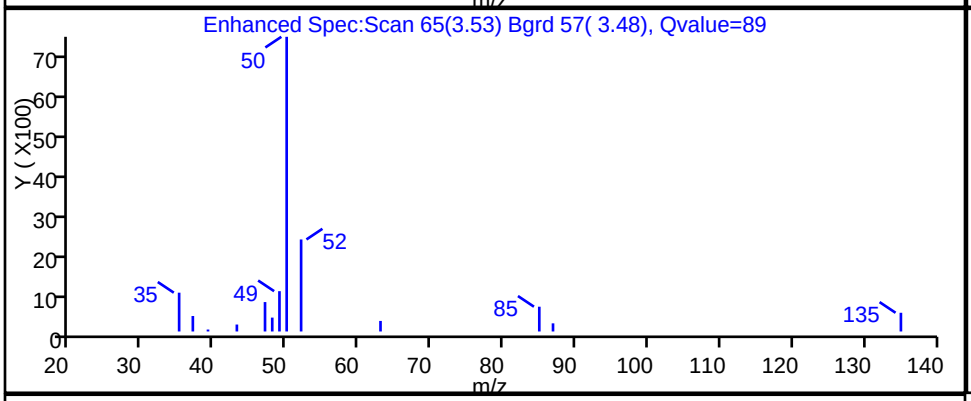
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

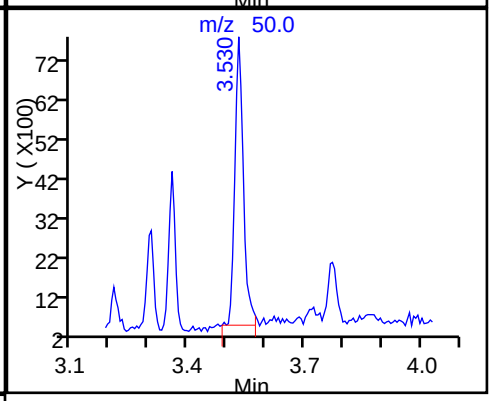
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

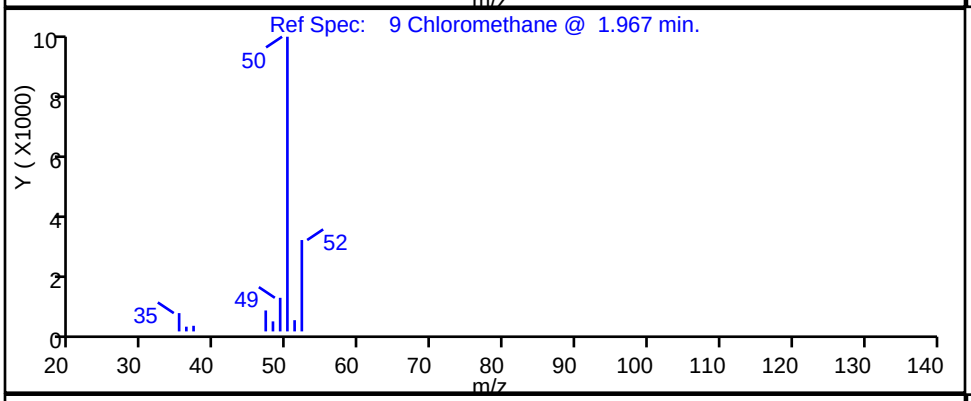
9 Chloromethane, CAS: 74-87-3

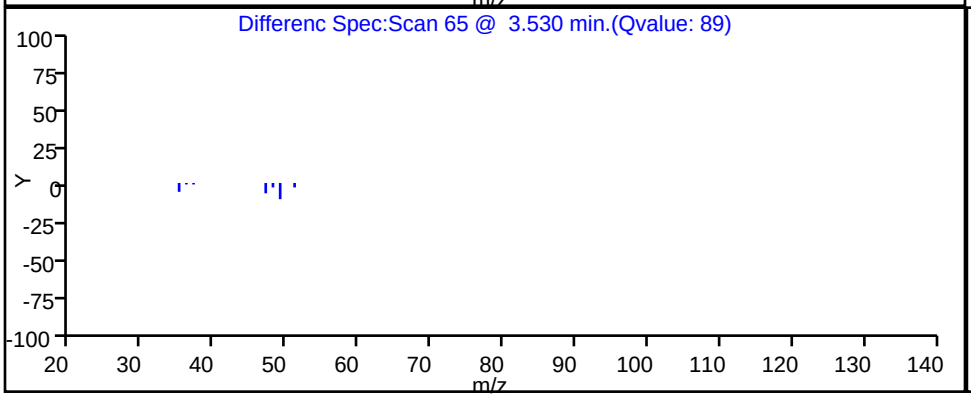


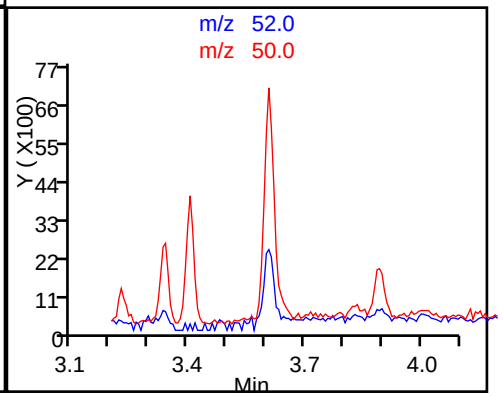








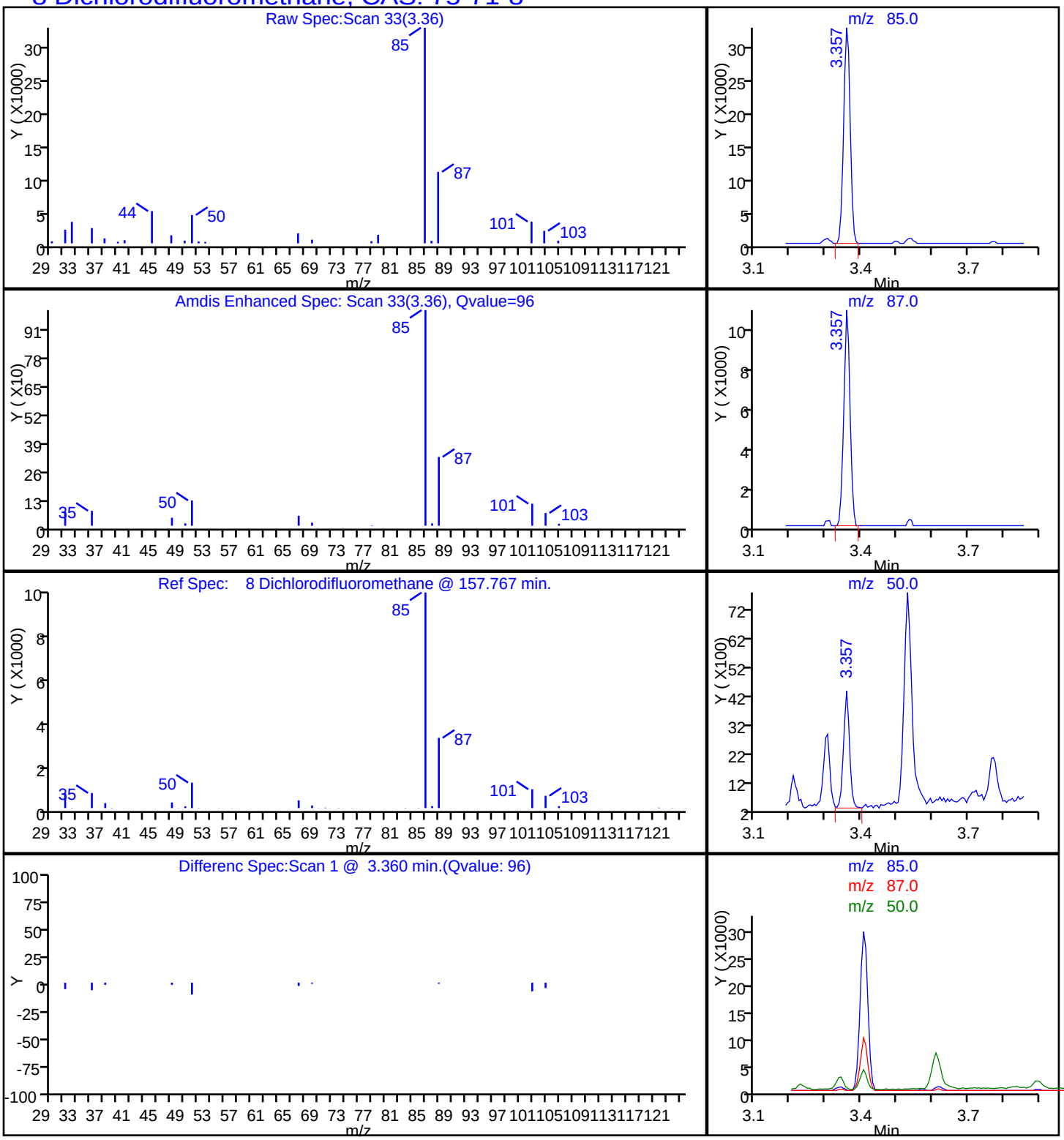




TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D				
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



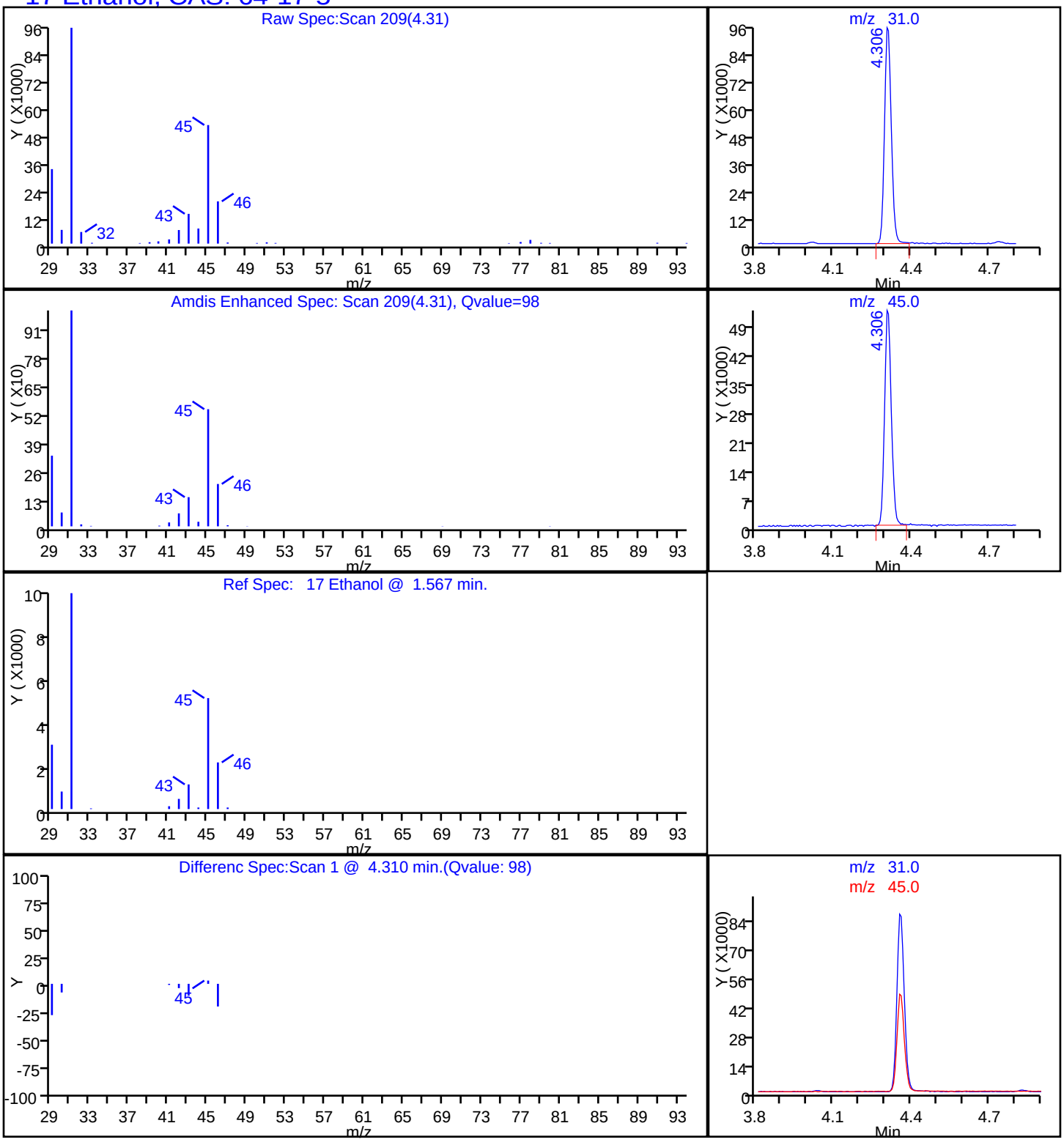
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



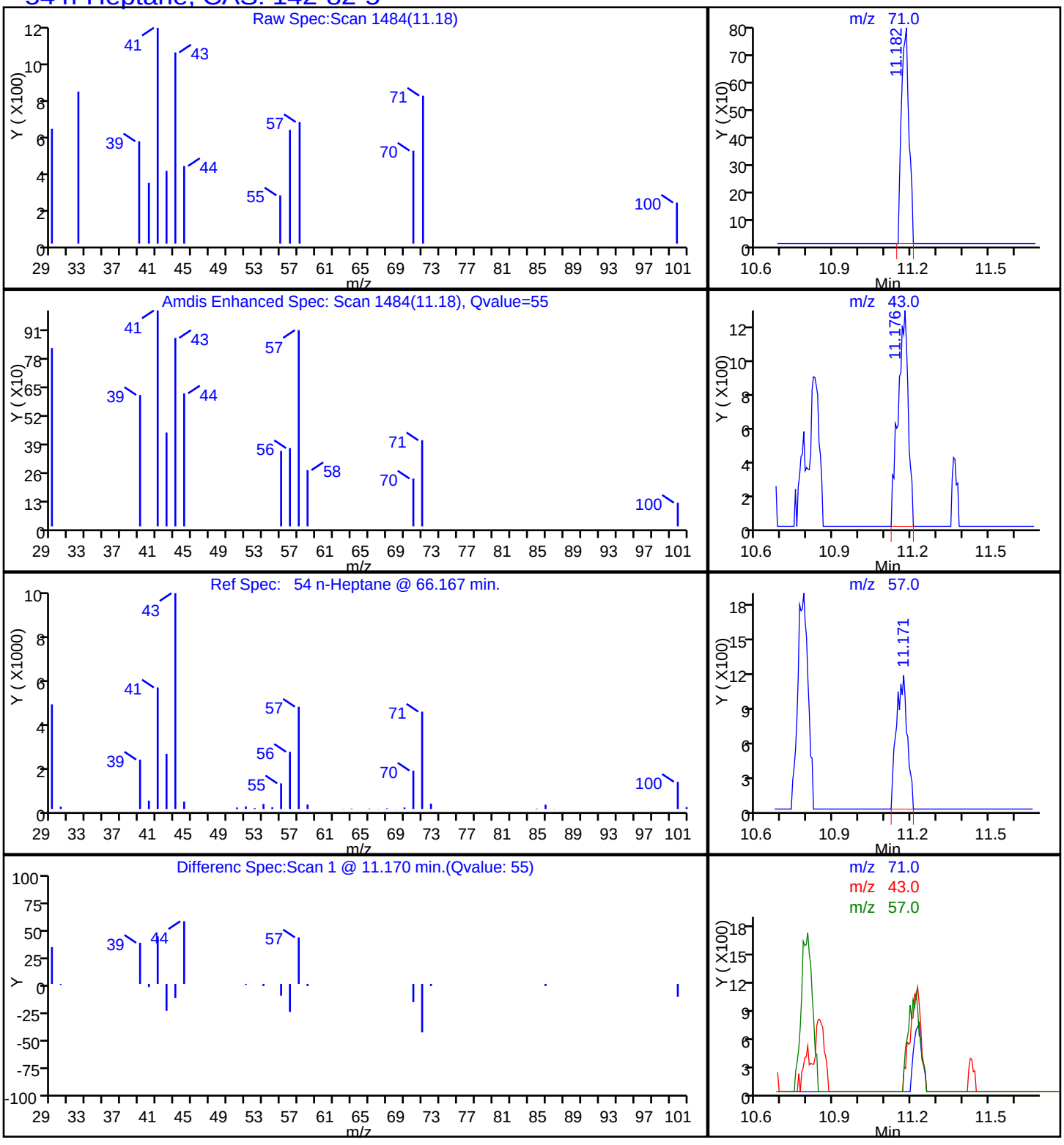
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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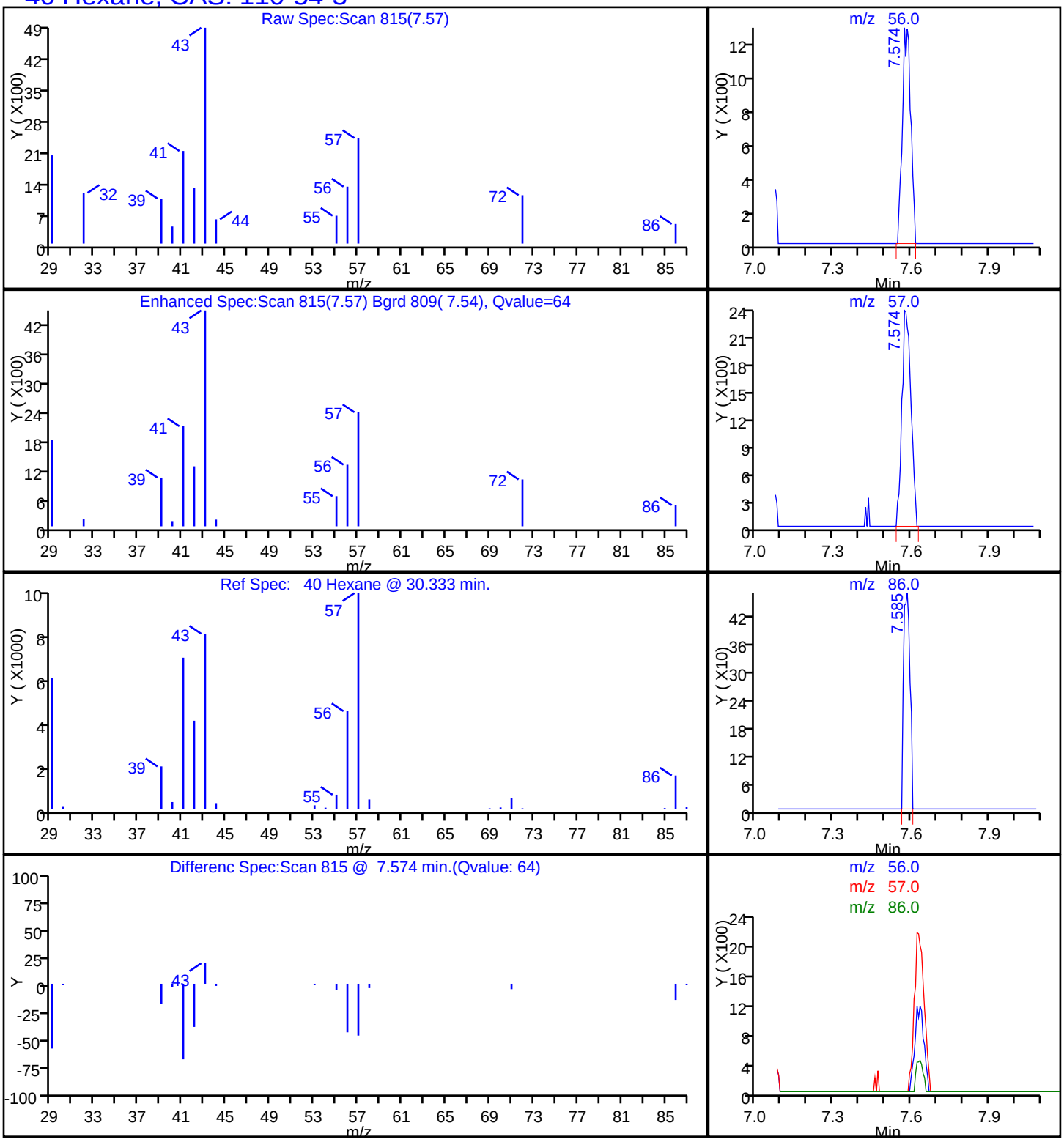
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D		
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



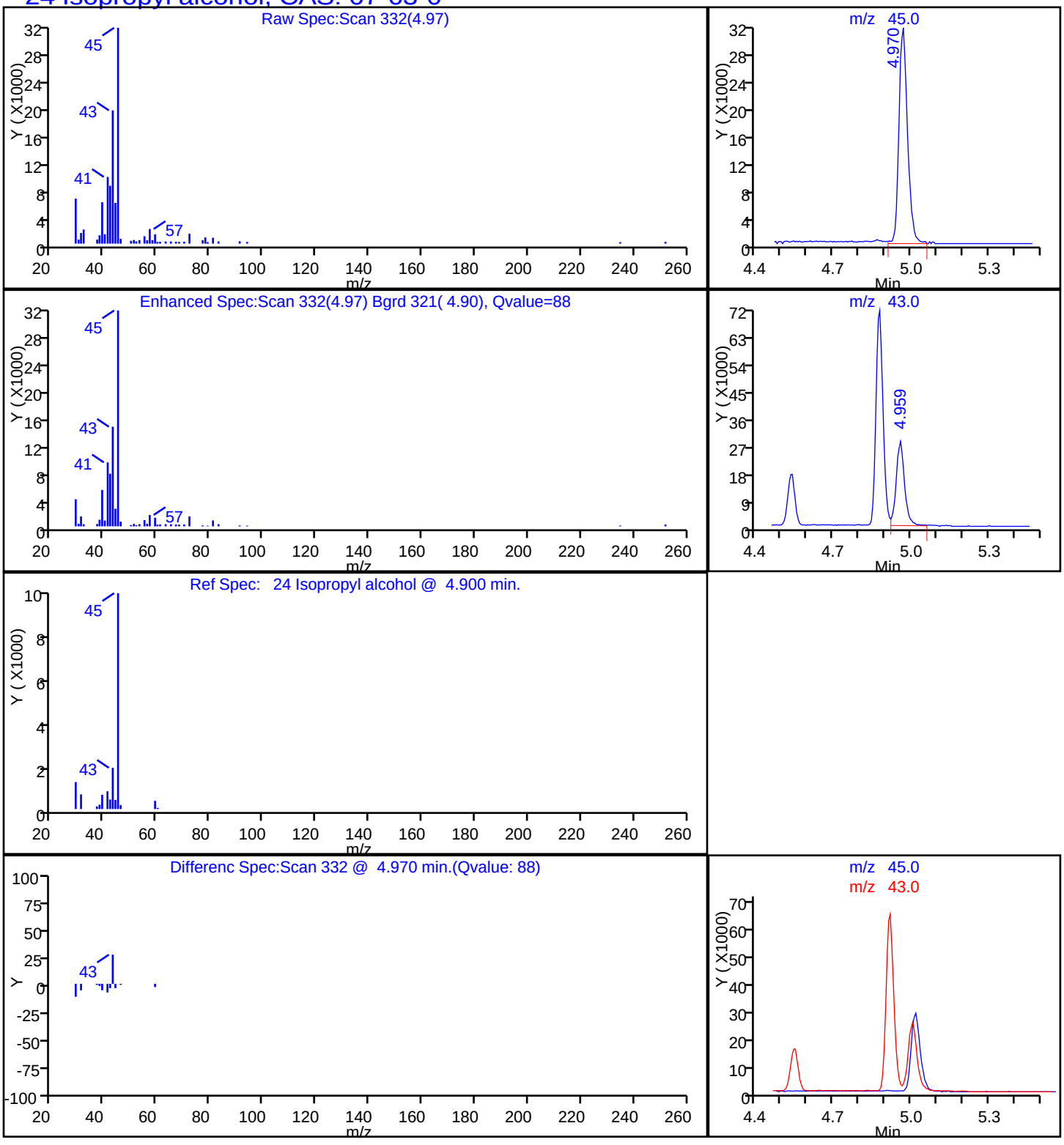
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



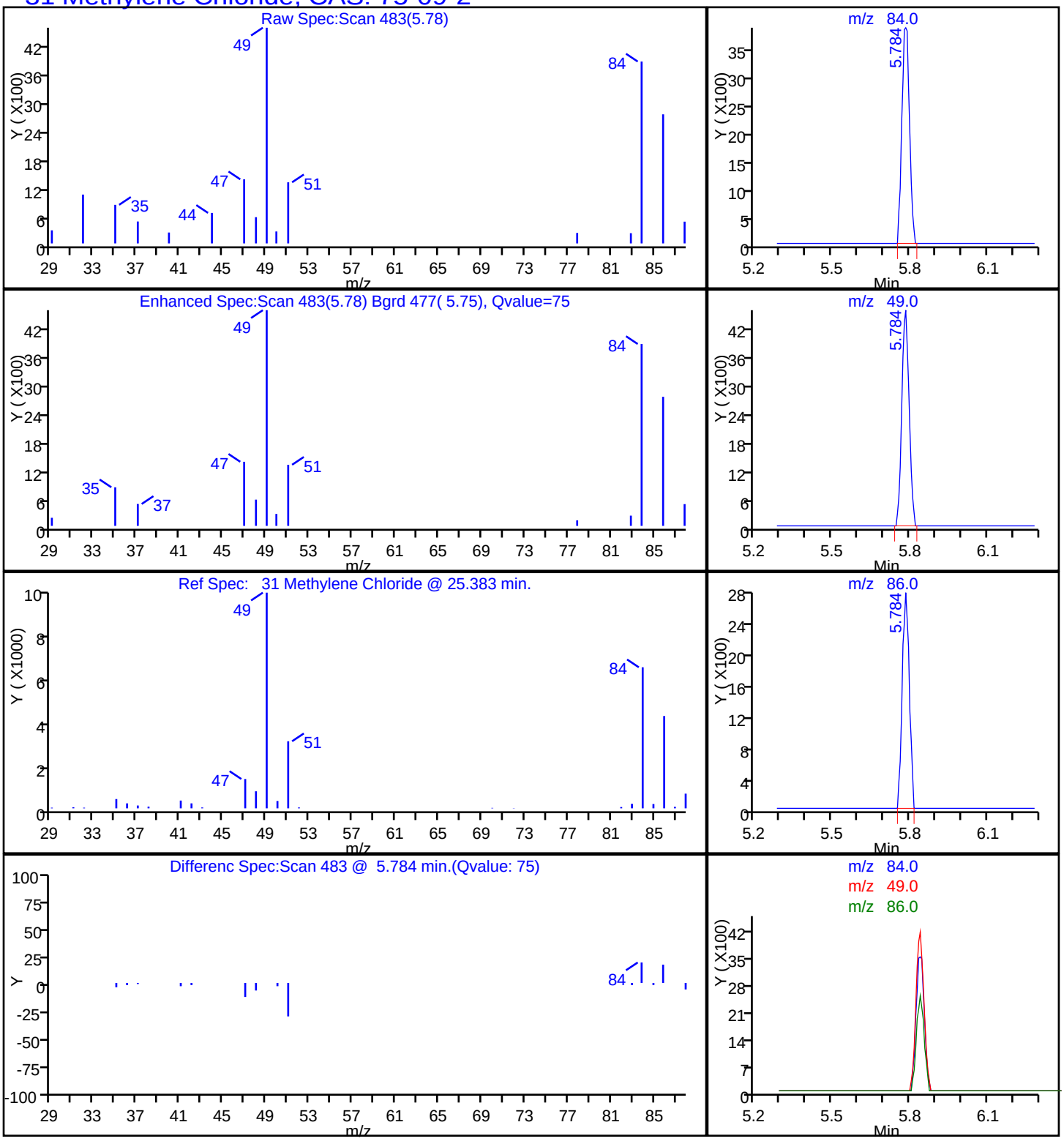
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



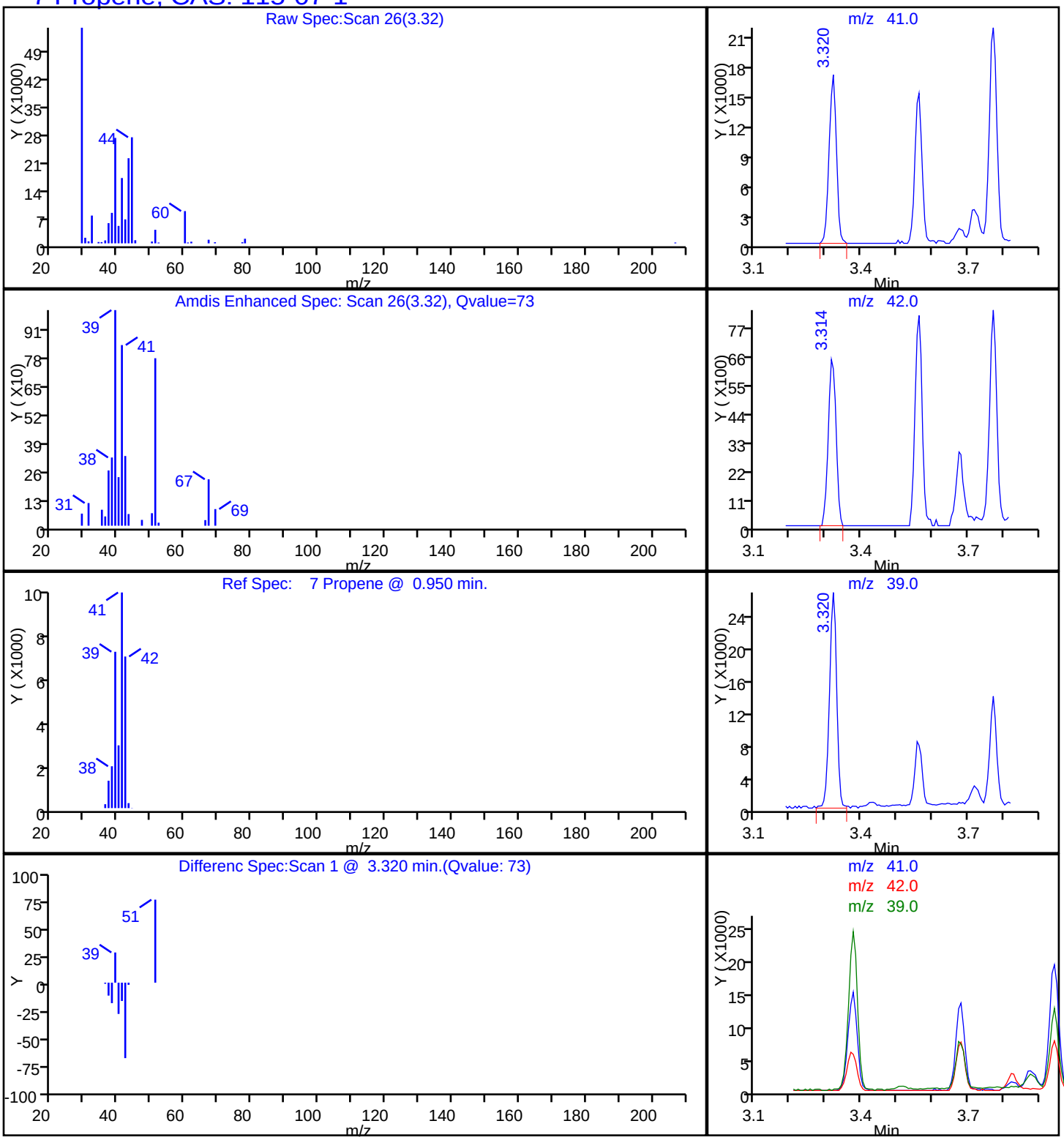
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



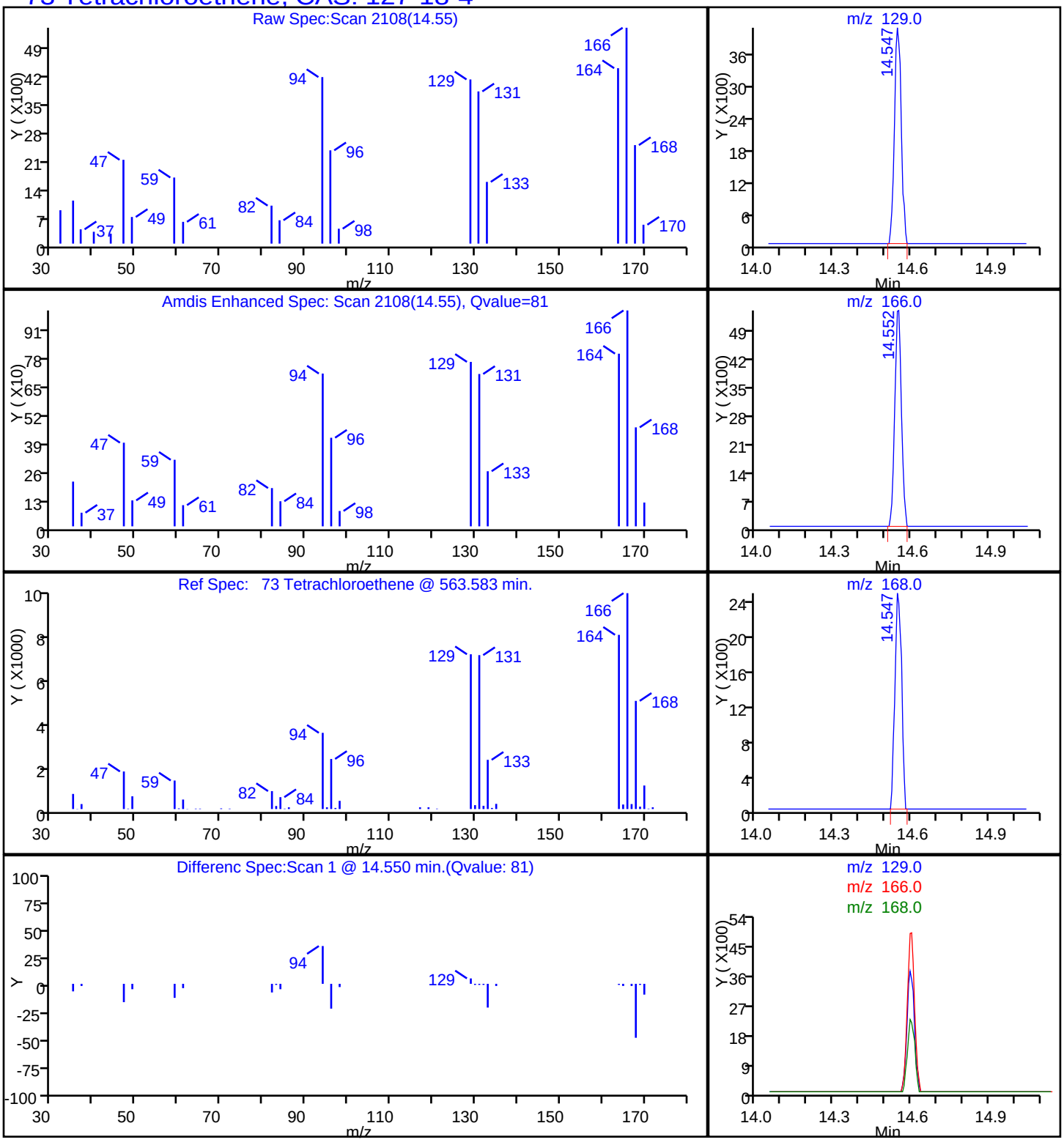
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

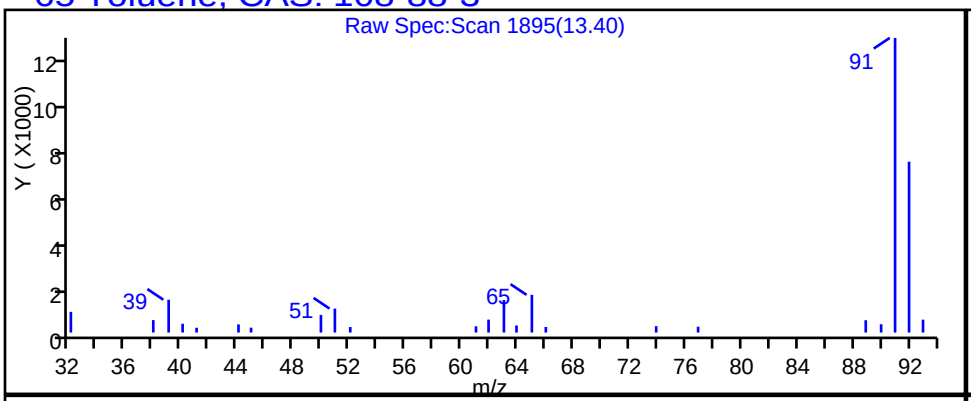


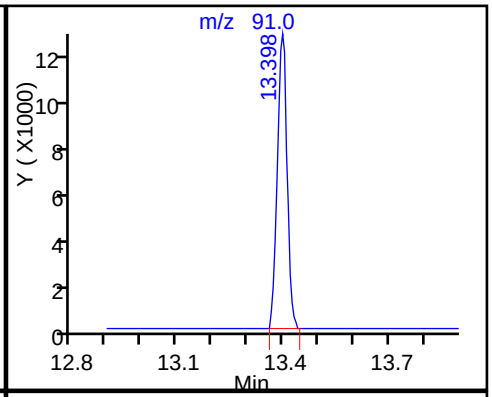
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

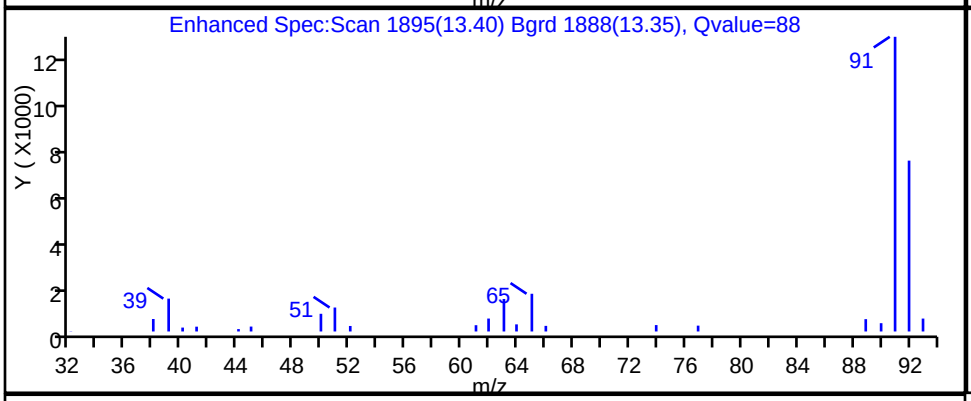
TestAmerica Knoxville

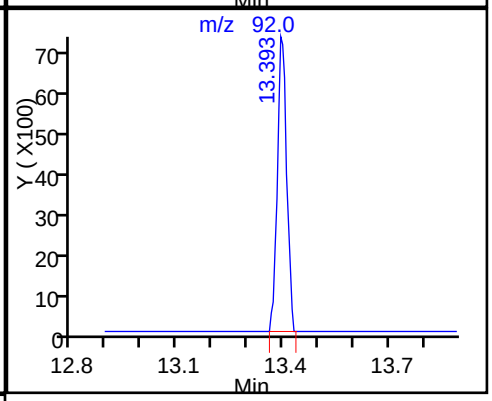
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D		
Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4
Client ID:	PCV-IA2-B2		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

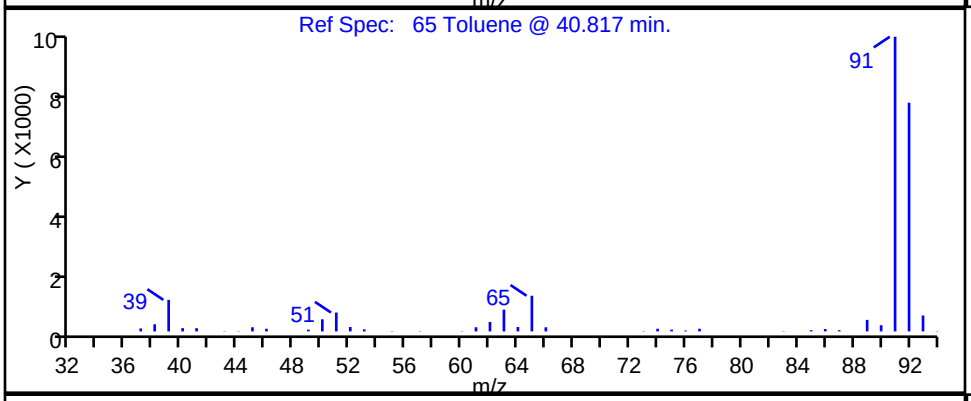
65 Toluene, CAS: 108-88-3

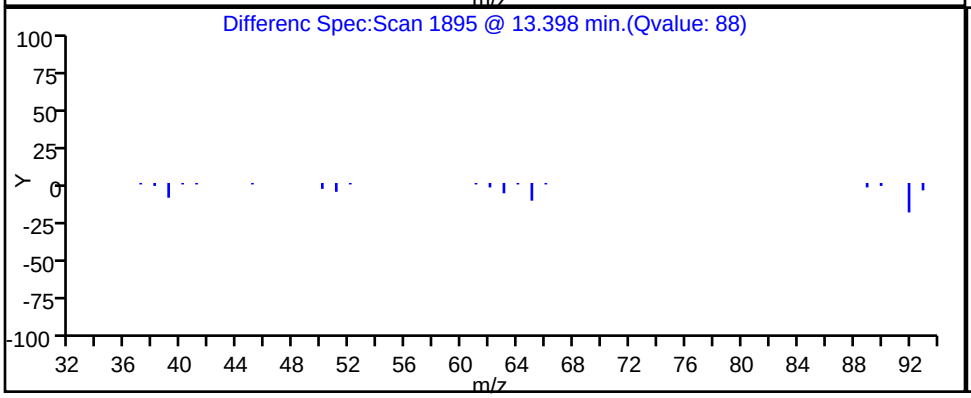


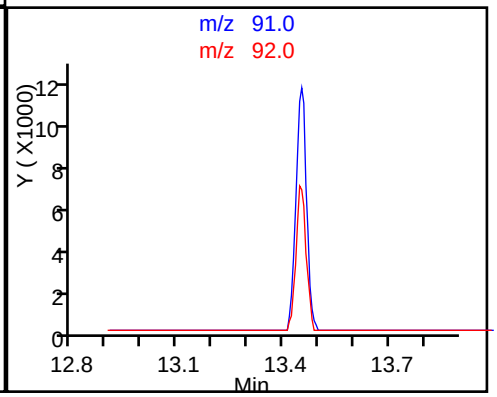












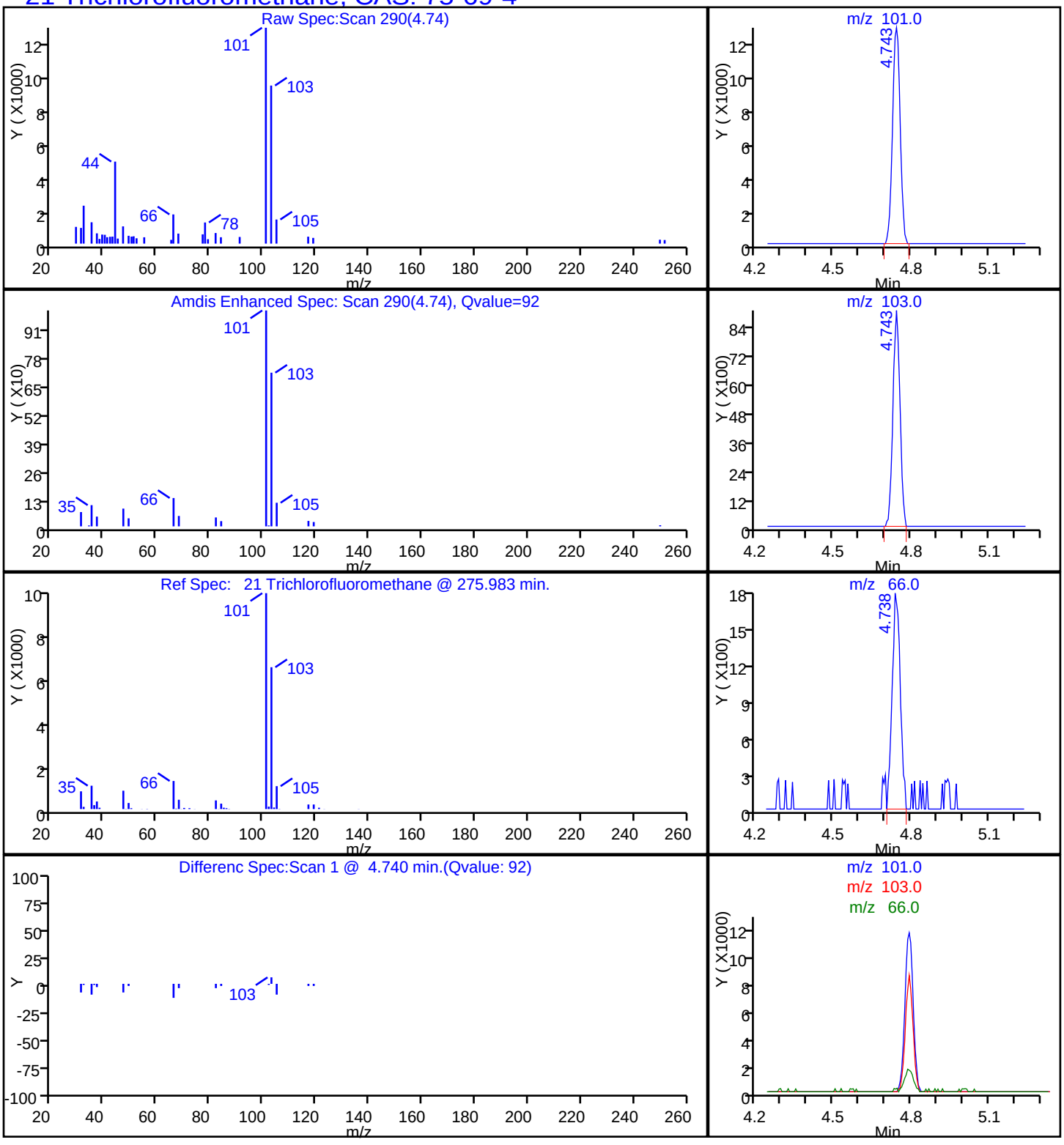
Report Date: 24-Mar-2014 15:48:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P104.D

Injection Date:	14-Mar-2014 17:10:30	Instrument ID:	ME		
Lims ID:	140-1041-A-4	Lab Sample ID:	140-1041-4		
Client ID:	PCV-IA2-B2				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.080	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.23		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.089	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.067	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.26	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.99		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.10	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	5.5		0.50	0.045
67-64-1	Acetone	58.08	25		5.0	1.4
71-43-2	Benzene	78.11	0.30		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	0.078	J	0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.078	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	1.4		0.20	0.038
74-87-3	Chloromethane	50.49	0.55		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.046	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.48		0.20	0.068
64-17-5	Ethanol	46.07	48		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.082	J	0.20	0.068
142-82-5	Heptane	100.21	0.078	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.21	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.29		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.12	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.31		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	10		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.30		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.61	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.44	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.31	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.78	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.51	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	22		2.0	0.18
67-64-1	Acetone	58.08	60		12	3.3
71-43-2	Benzene	78.11	0.96		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	0.52	J	1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.49	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	6.6		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.16	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	90		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.36	J	0.87	0.30
142-82-5	Heptane	100.21	0.32	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.73	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.5	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.52	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.1		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	38		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B13 Lab Sample ID: 140-1041-5

Matrix: Air Lab File ID: EC14P105.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:06

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 17:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D
Lims ID: 140-1041-A-5 Lab Sample ID: 140-1041-5
Client ID: PCV-IA1-B13
Sample Type: Client
Inject. Date: 14-Mar-2014 17:56:30 ALS Bottle#: 5 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-5
Misc. Info.: E031414,TO155,,140-0000522-010
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:25:56 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:25:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	81	206004	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1016108	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	887421	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	828500	4.26	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	43524	0.1910	
9 Chloromethane	52	3.530	3.530	0.0	88	3975	0.2185	M
17 Ethanol	31	4.312	4.317	-0.005	98	394845	19.2	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	28574	0.3961	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	27326	0.1195	
23 Acetone	58	4.867	4.883	-0.016	99	316737	10.2	
24 Isopropyl alcohol	45	4.975	4.975	0.0	91	46216	0.5753	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	65	4517	0.0319	
31 Methylene Chloride	84	5.789	5.795	-0.006	75	9468	0.1608	
39 2-Butanone (MEK)	72	7.579	7.585	-0.006	86	3558	0.1055	
40 Hexane	56	7.585	7.590	-0.005	67	4550	0.0830	
43 Chloroform	83	8.345	8.356	-0.011	87	95433	0.5407	
49 Cyclohexane	69	9.984	9.984	0.0	35	700	0.0183	
48 Benzene	78	9.995	9.995	0.0	95	24654	0.1206	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	70	6106	0.0311	
53 Isooctane	57	10.782	10.788	-0.006	80	8502	0.0269	
54 n-Heptane	71	11.176	11.182	-0.006	61	2401	0.0310	
58 Dichlorobromomethane	83	11.537	11.548	-0.011	69	5991	0.0312	
62 4-Methyl-2-pentanone (MIBK)	43	12.513	12.519	-0.006	94	263265	2.19	
65 Toluene	91	13.398	13.403	-0.005	93	947168	3.98	
73 Tetrachloroethene	129	14.552	14.552	0.0	84	12421	0.1227	
76 Ethylbenzene	91	15.722	15.722	0.0	77	10057	0.0330	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	96	28003	0.1169	
82 o-Xylene	91	16.412	16.412	0.0	84	12432	0.0480	
88 4-Ethyltoluene	105	17.701	17.701	0.0	79	13651	0.0416	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	81	5310	0.0358	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	25232	0.0927	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags

QC Flag Legend

Review Flags
M - Manually Integrated

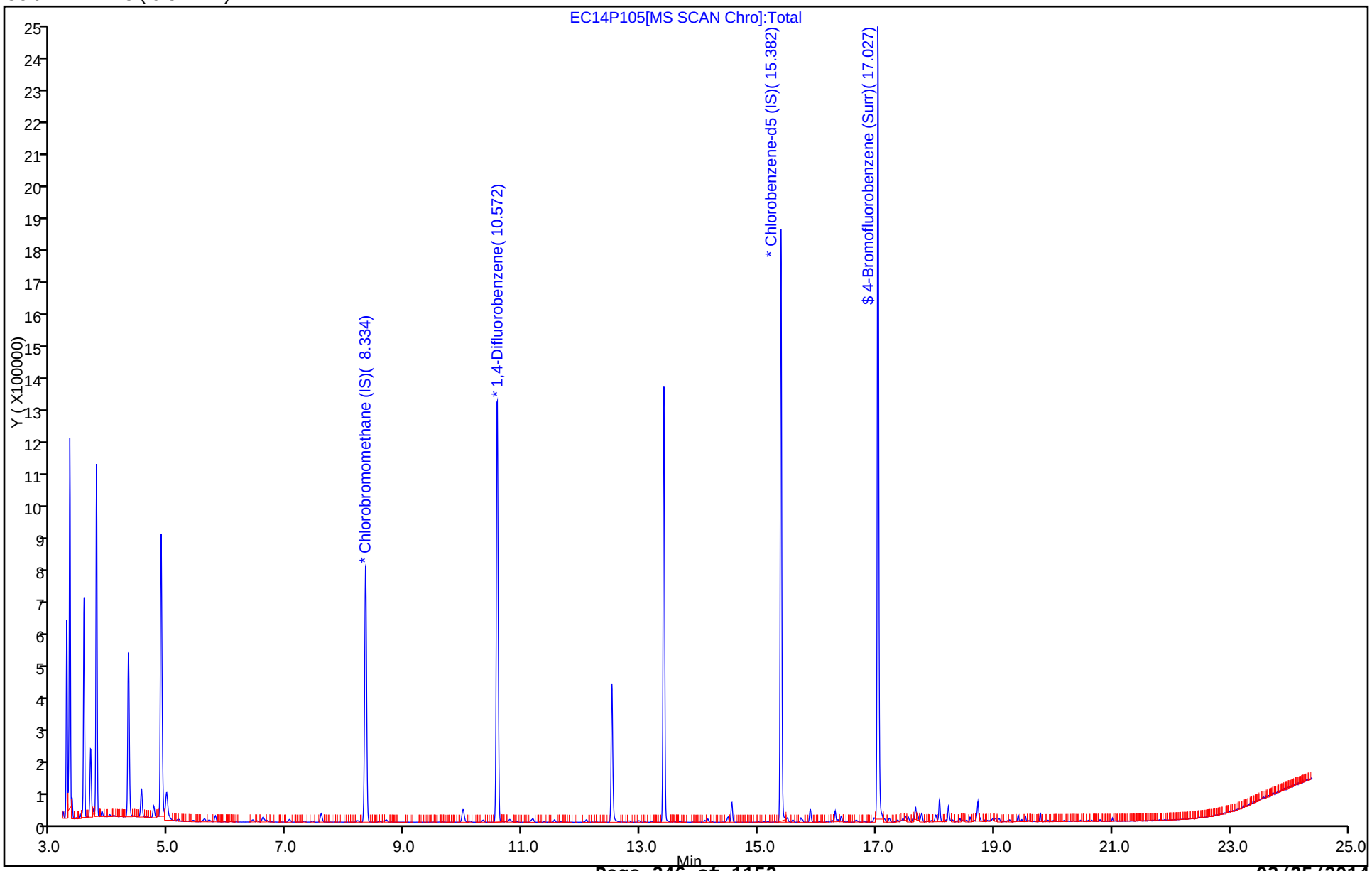
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5	Worklist Smp#:	10
Client ID:	PCV-IA1-B13				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



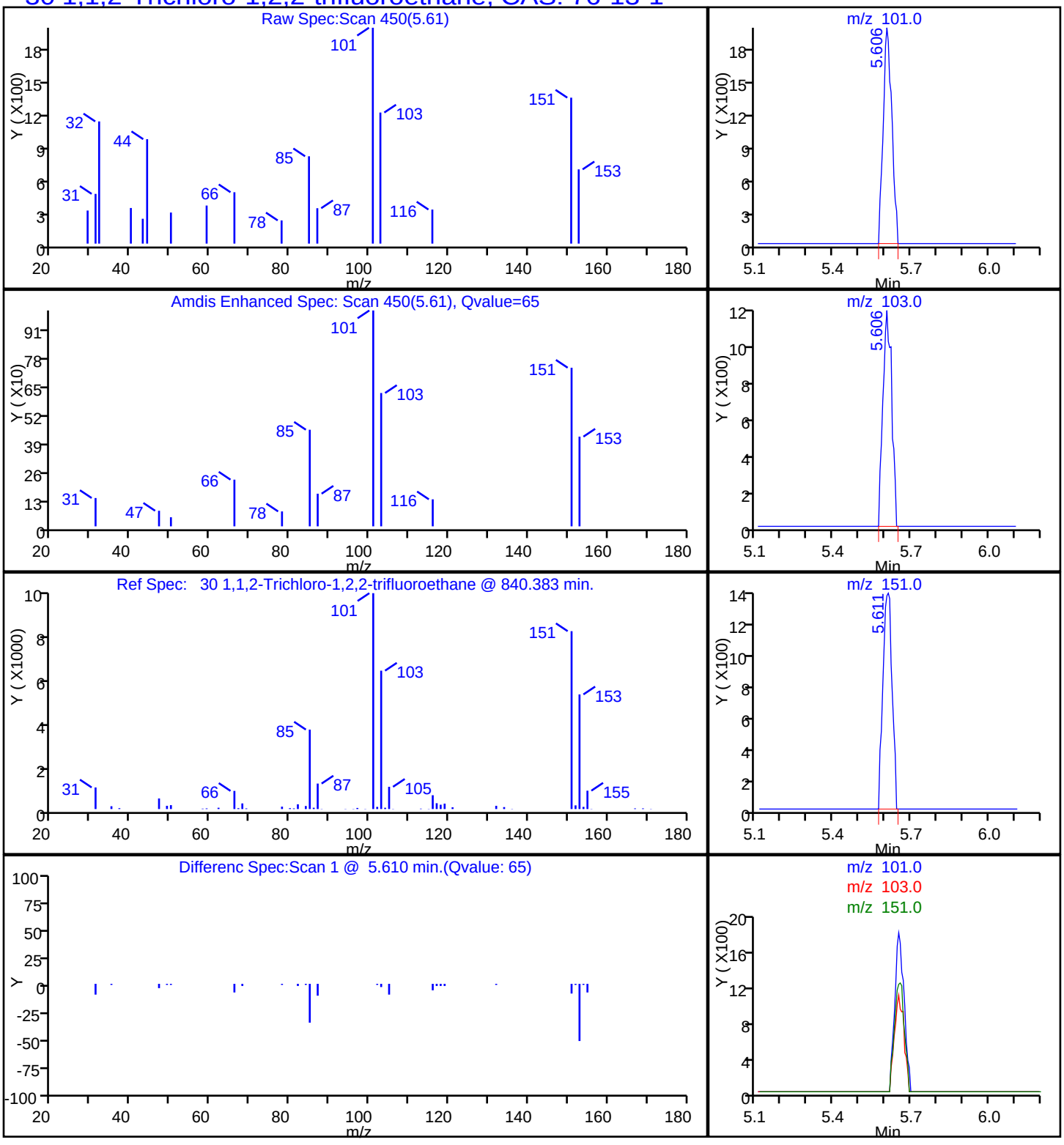
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

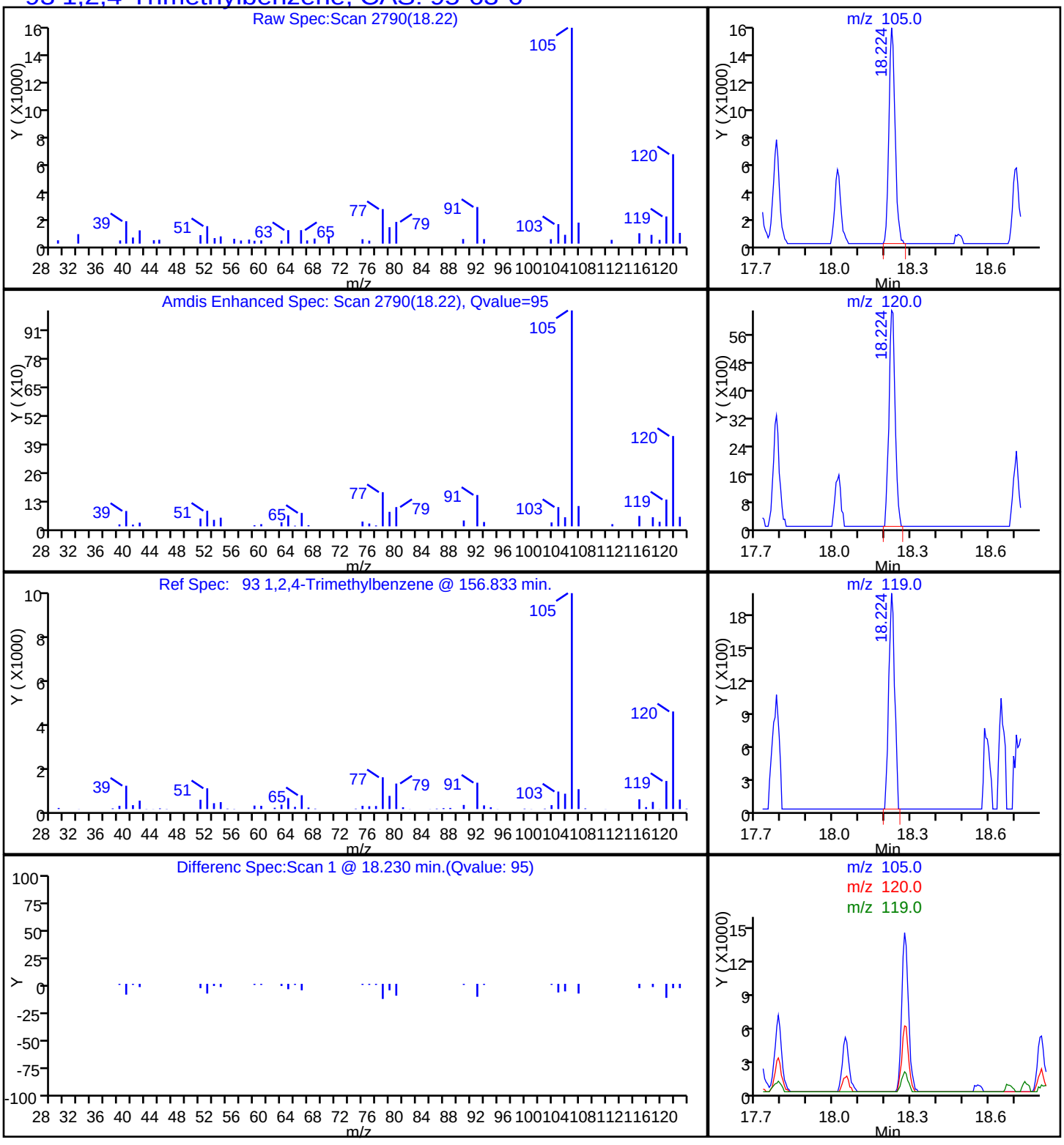


Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



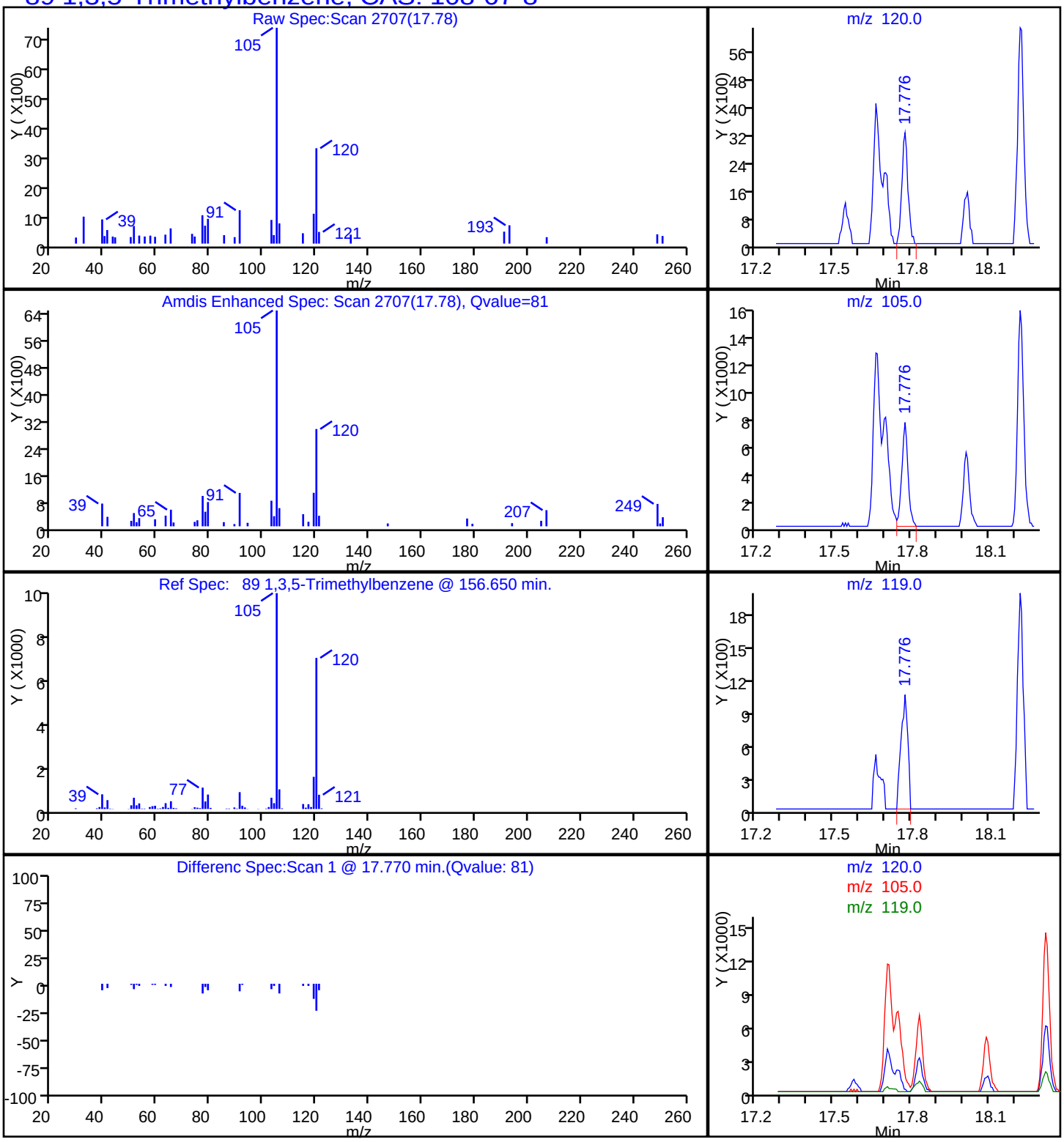
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



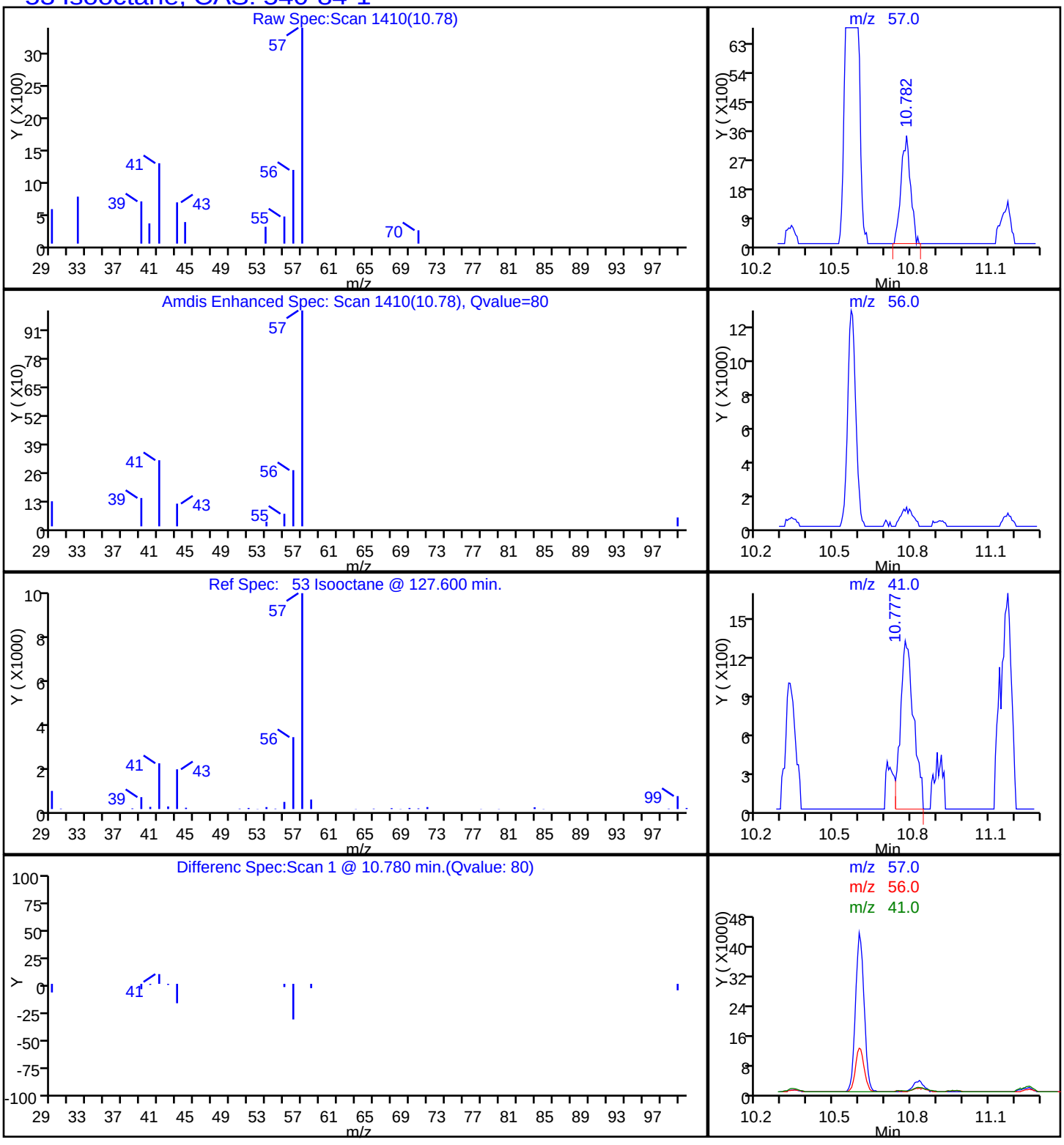
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



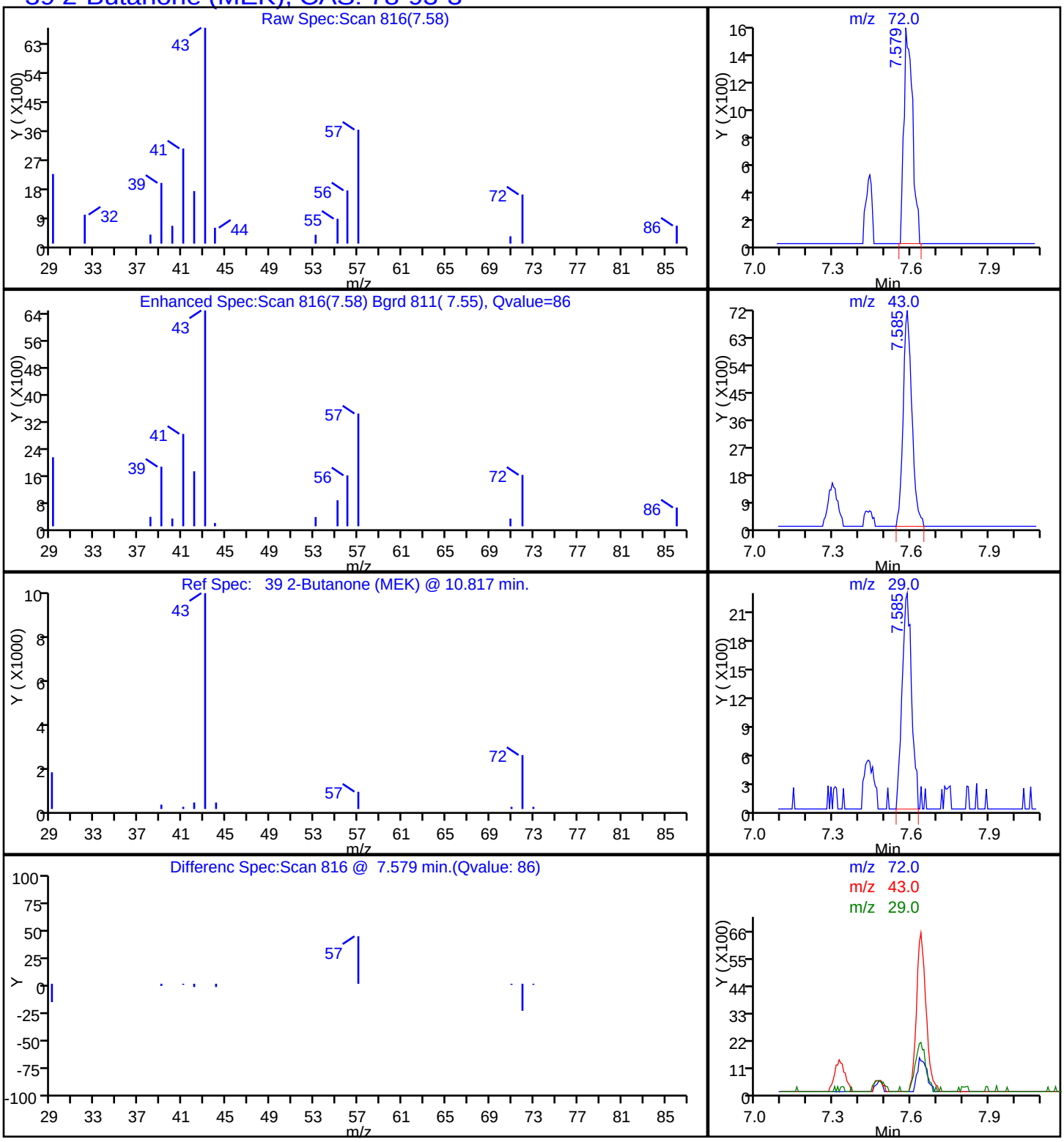
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



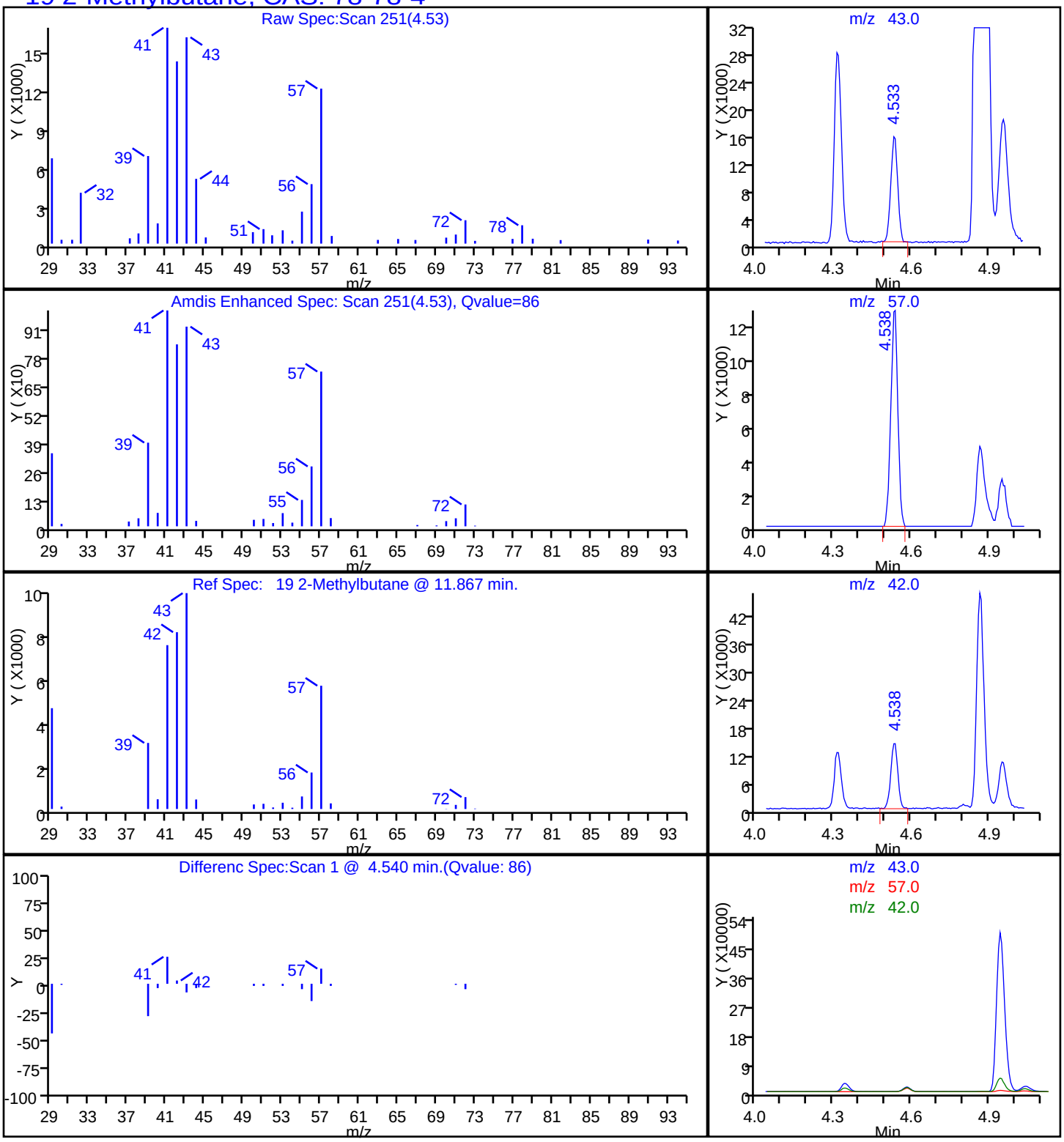
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

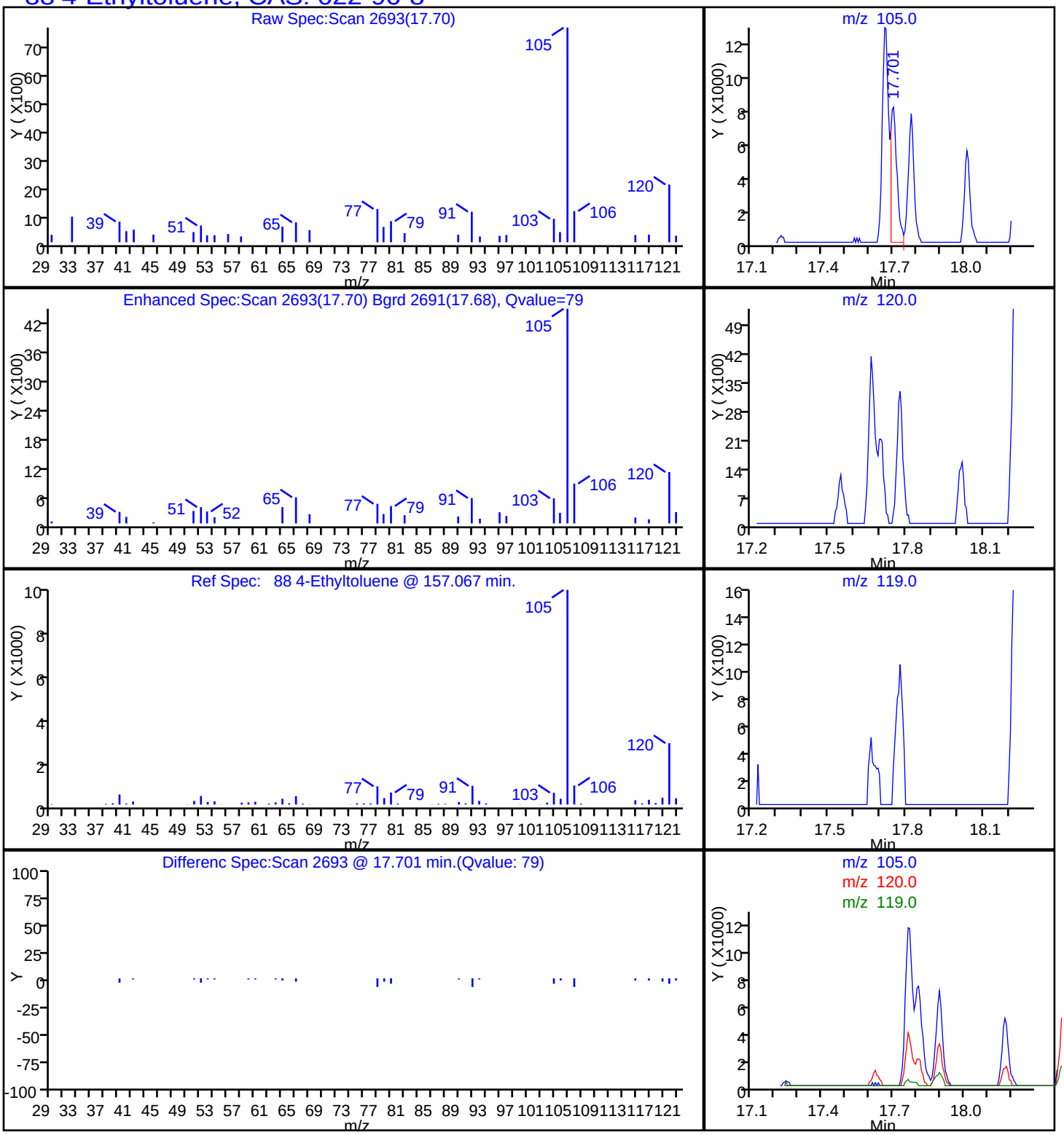


Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date: 14-Mar-2014 17:56:30 Instrument ID: ME

Lims ID: 140-1041-A-5 Lab Sample ID: 140-1041-5

Client ID: PCV-IA1-B13

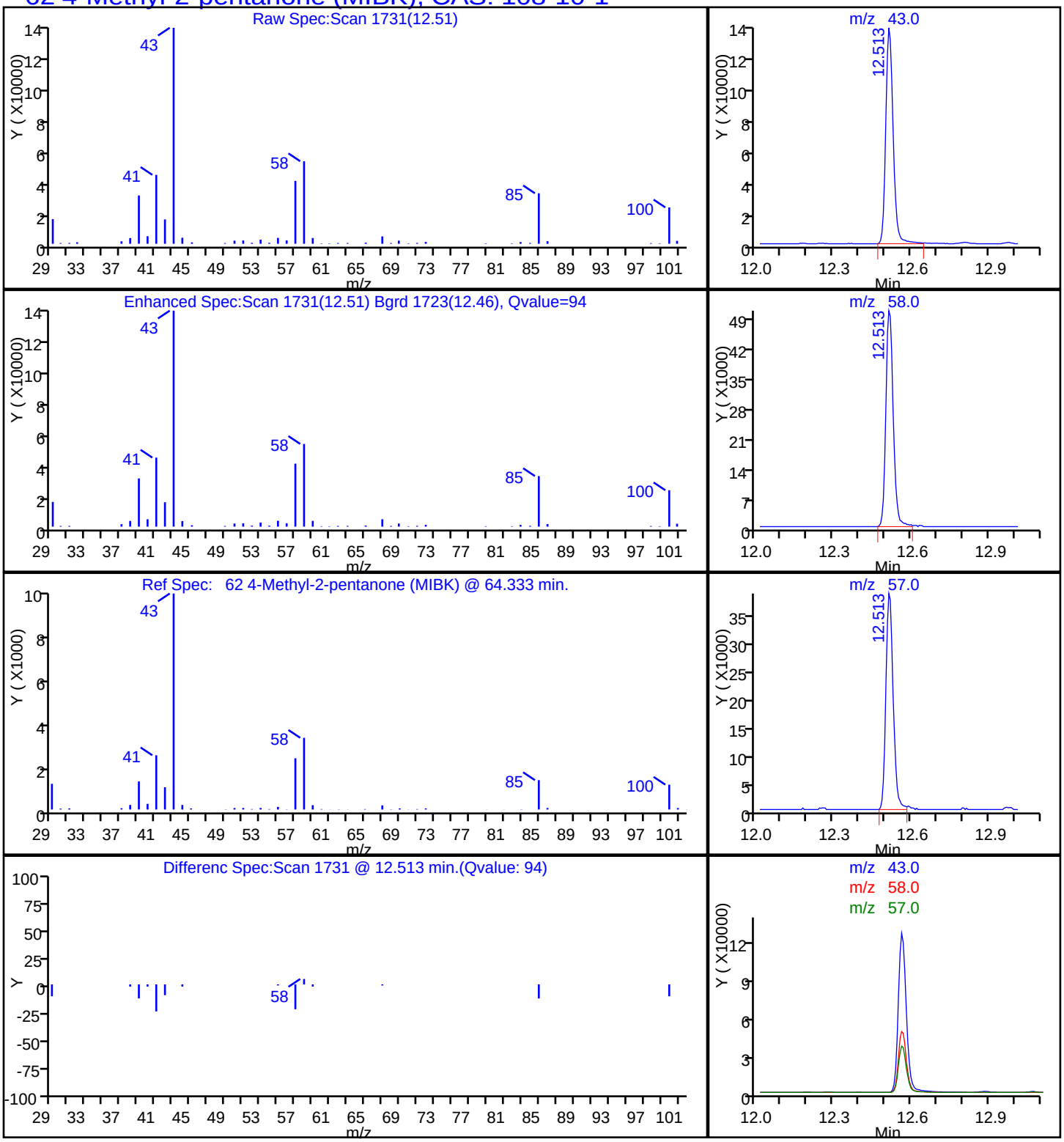
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

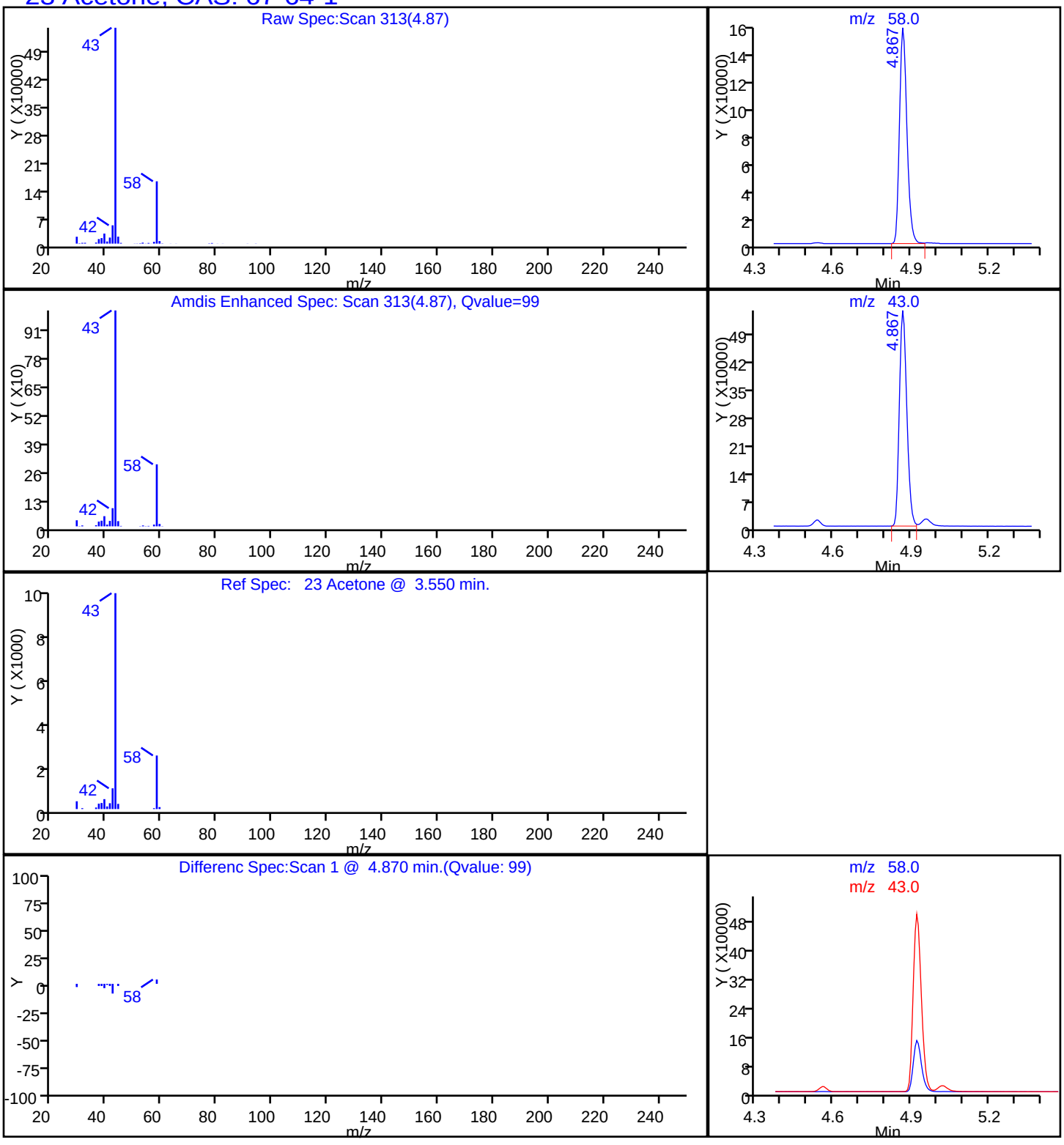
62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D		
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



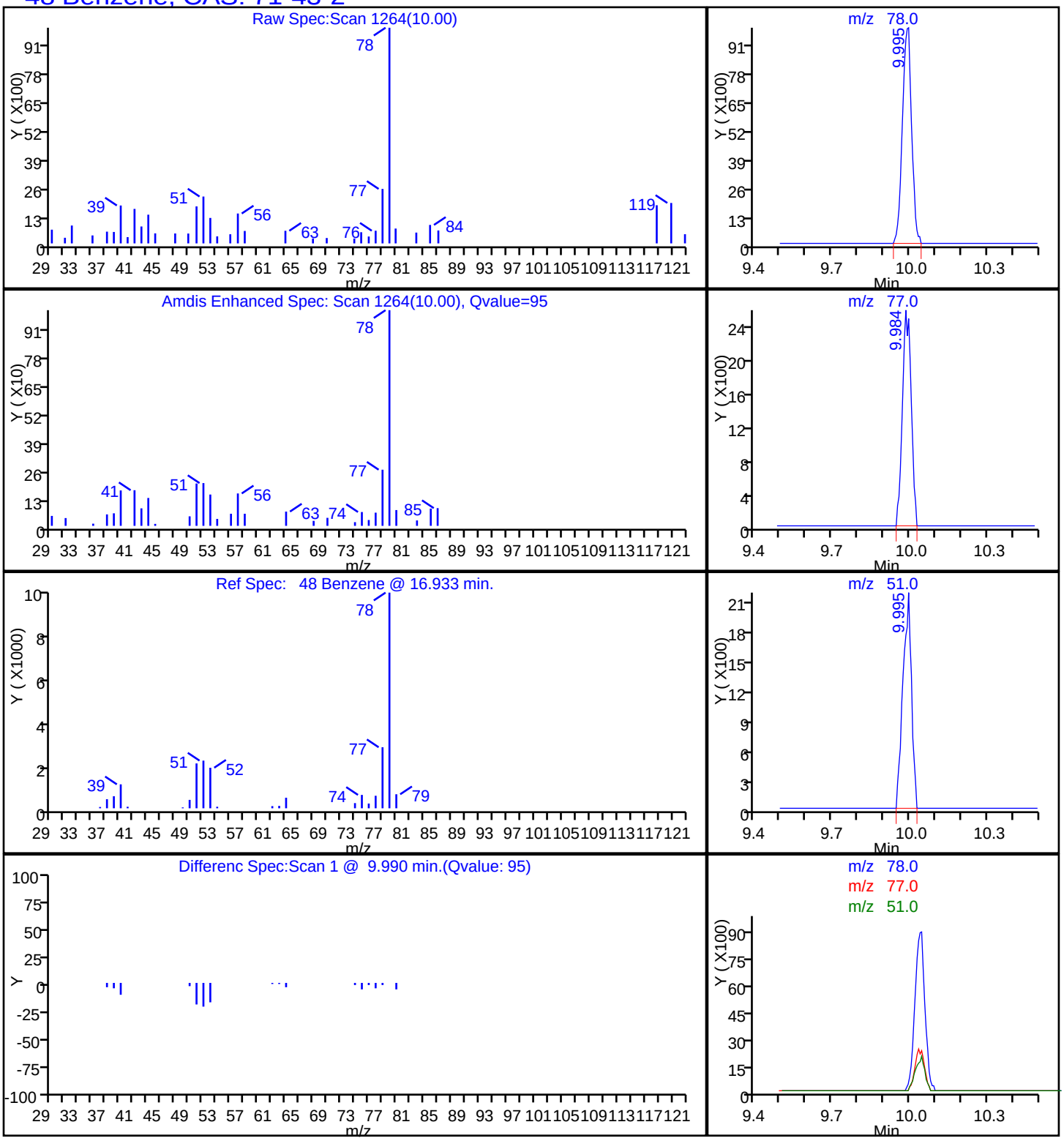
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



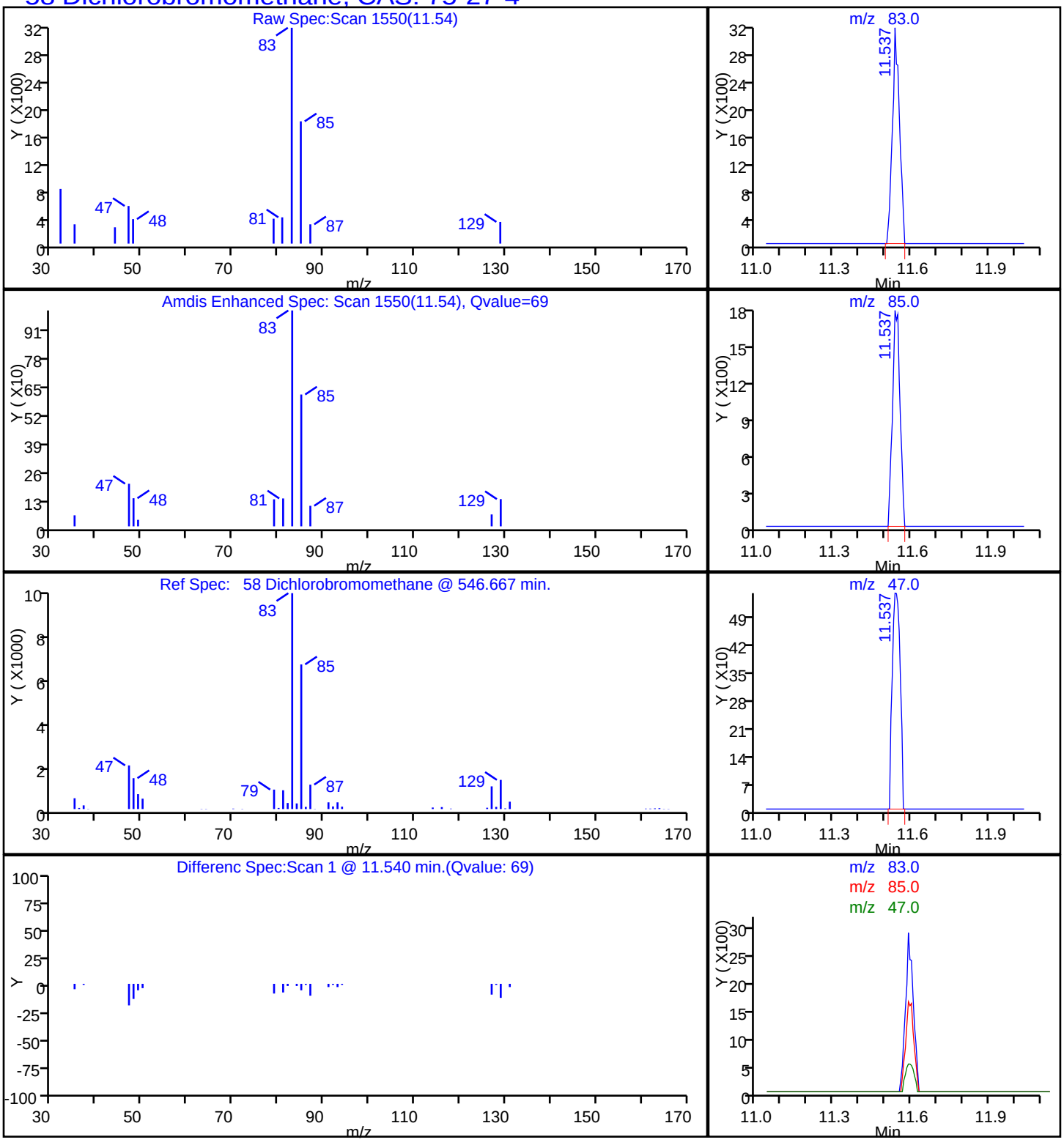
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

58 Dichlorobromomethane, CAS: 75-27-4



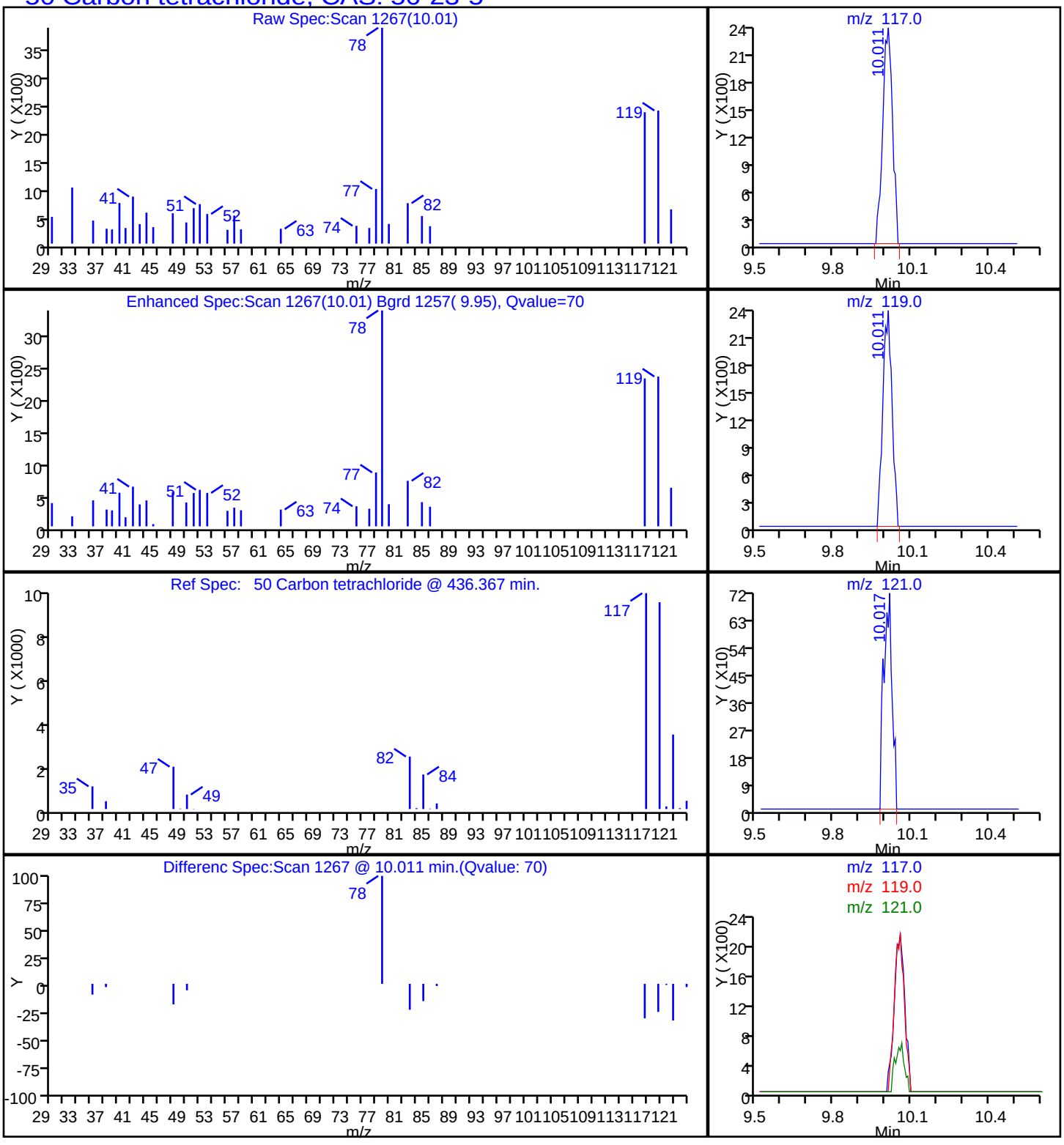
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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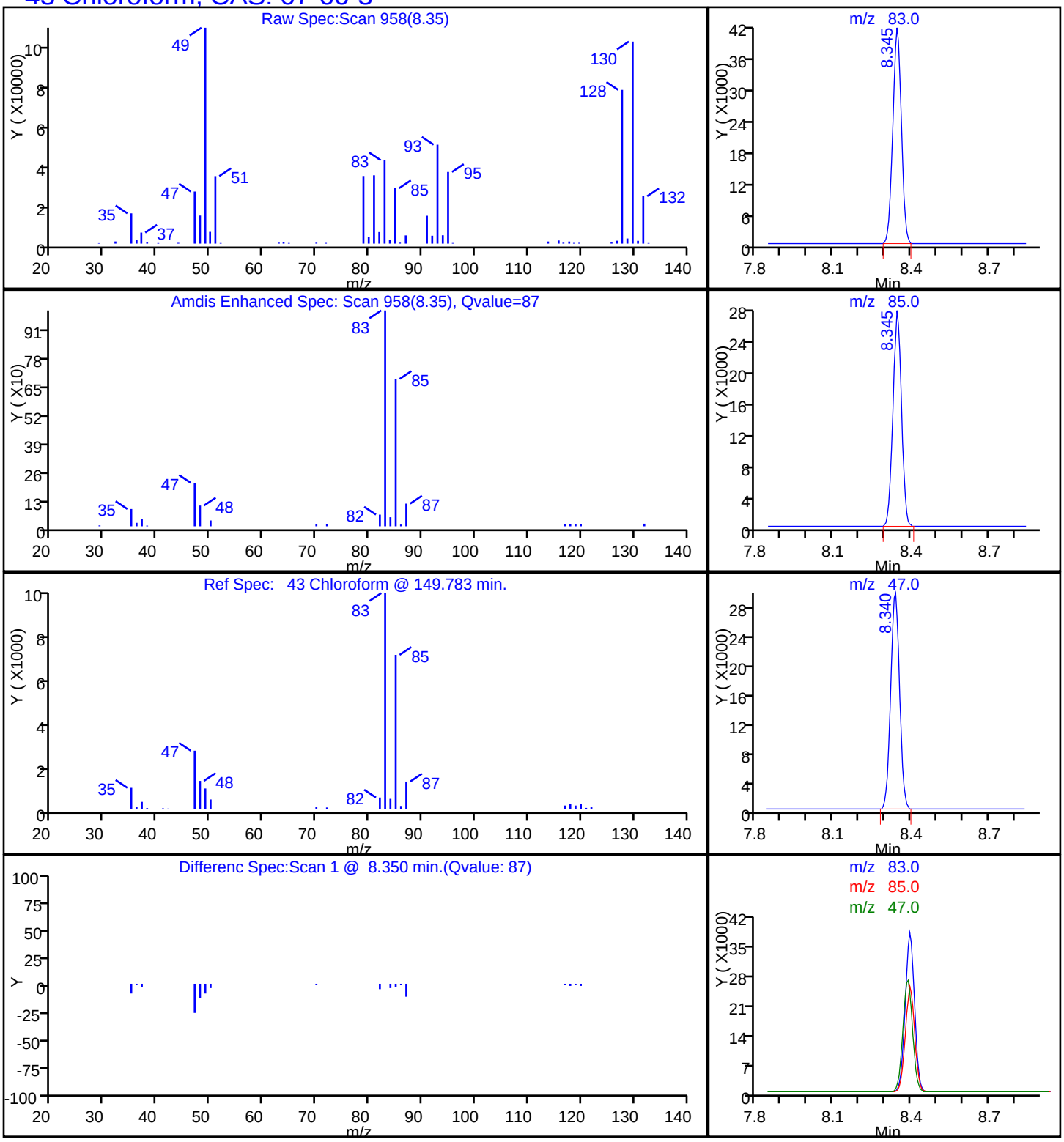
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



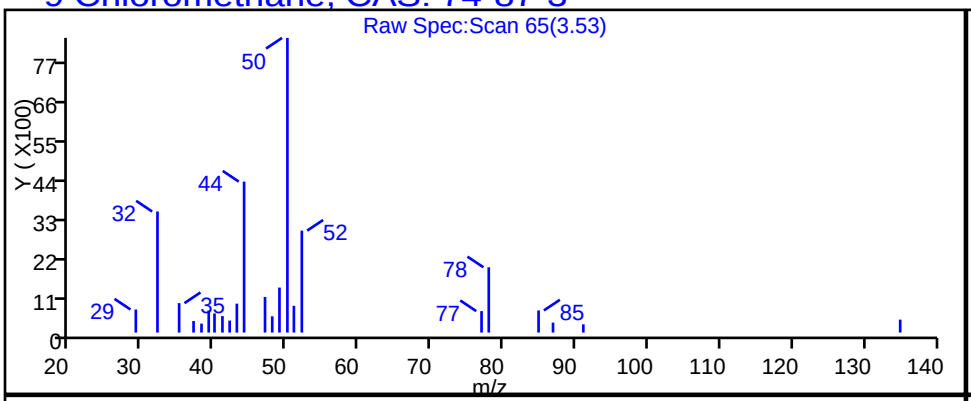
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

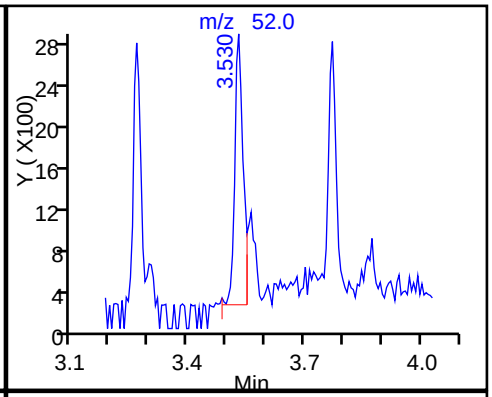
TestAmerica Knoxville

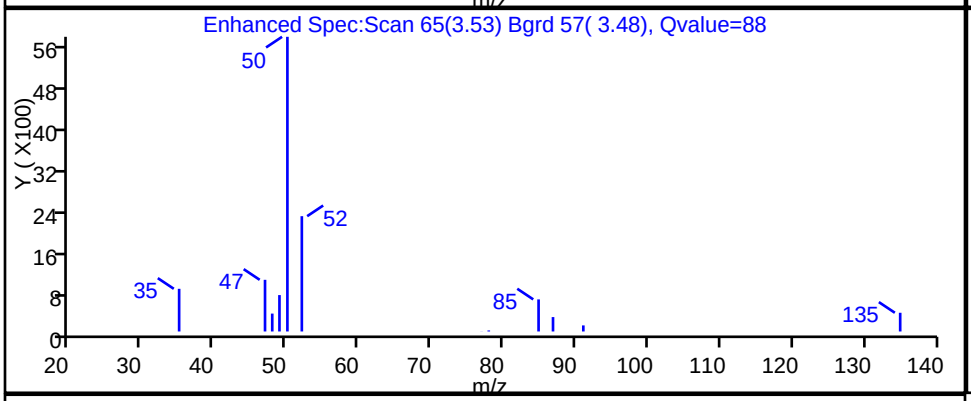
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

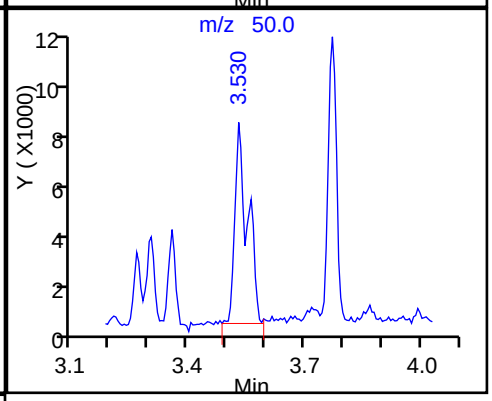
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

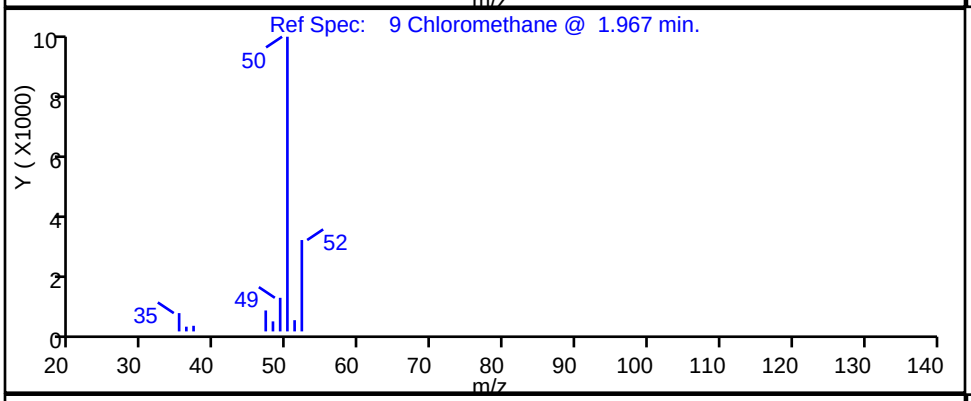
9 Chloromethane, CAS: 74-87-3

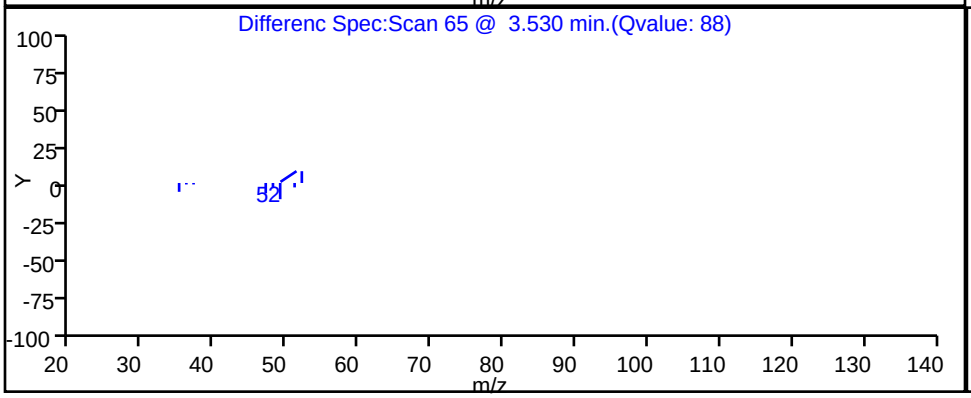


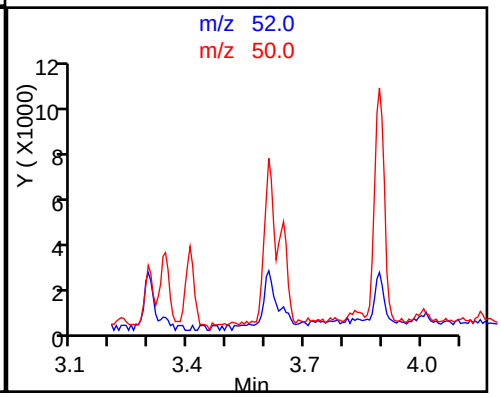












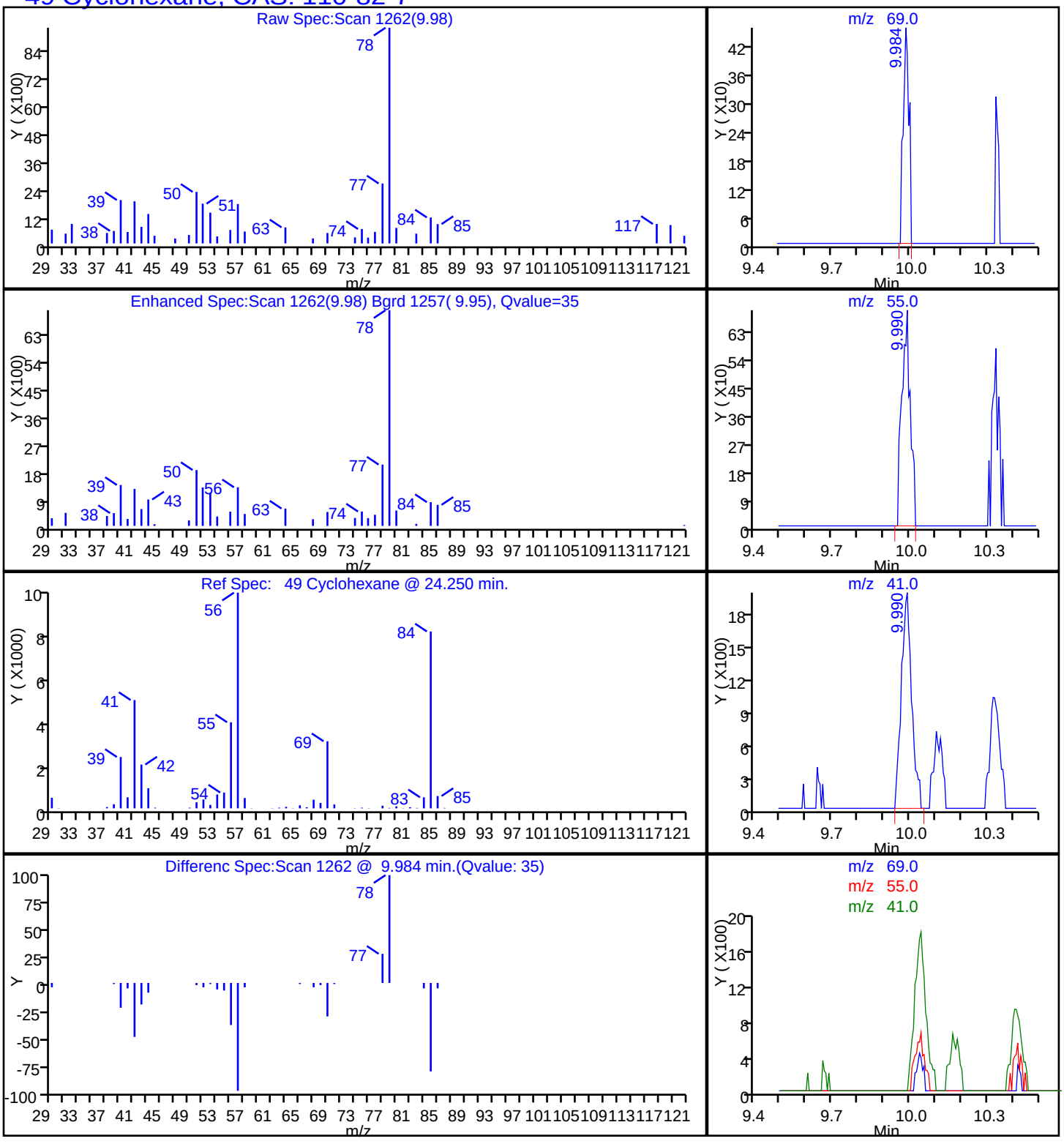
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

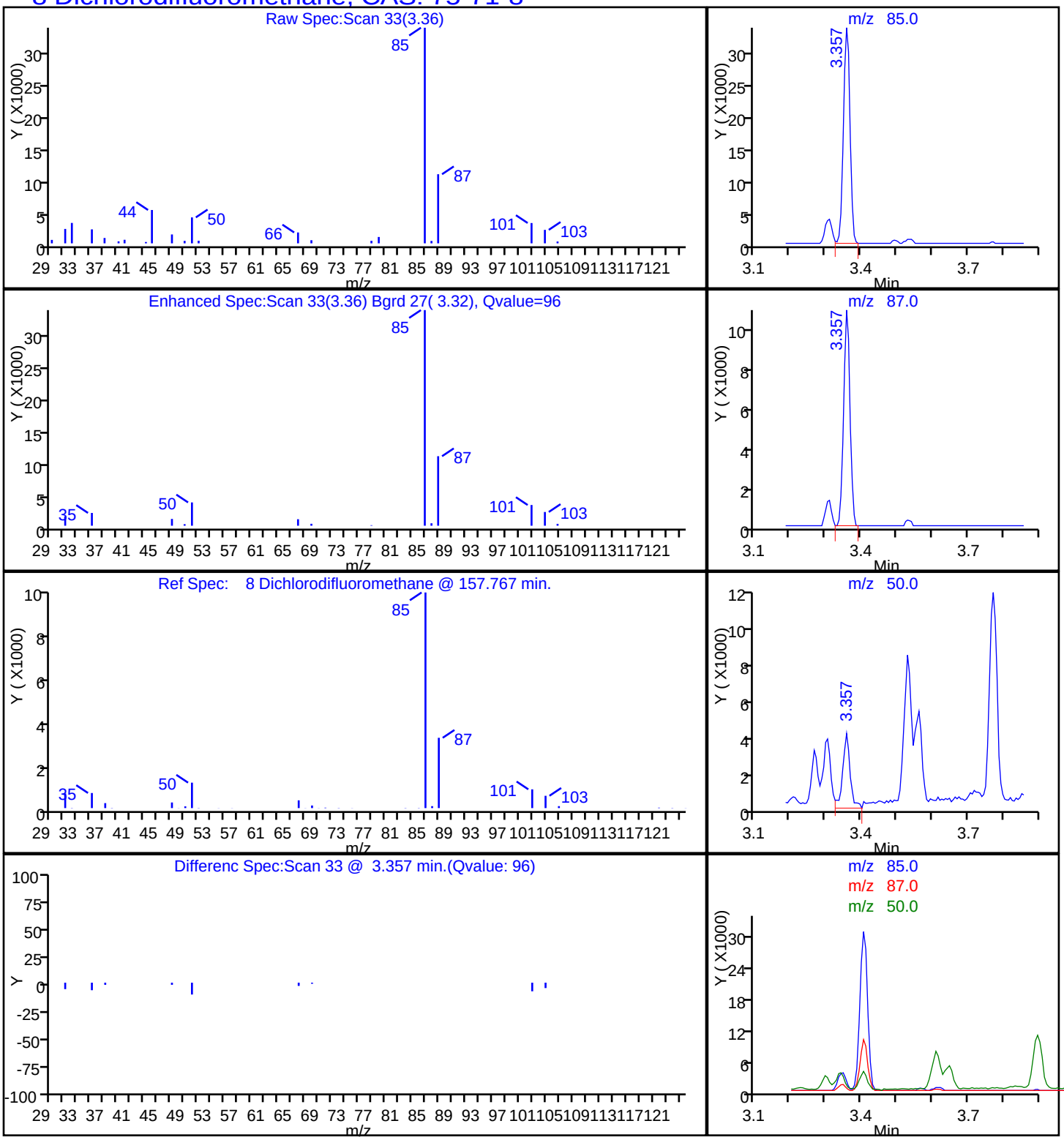
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D		
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



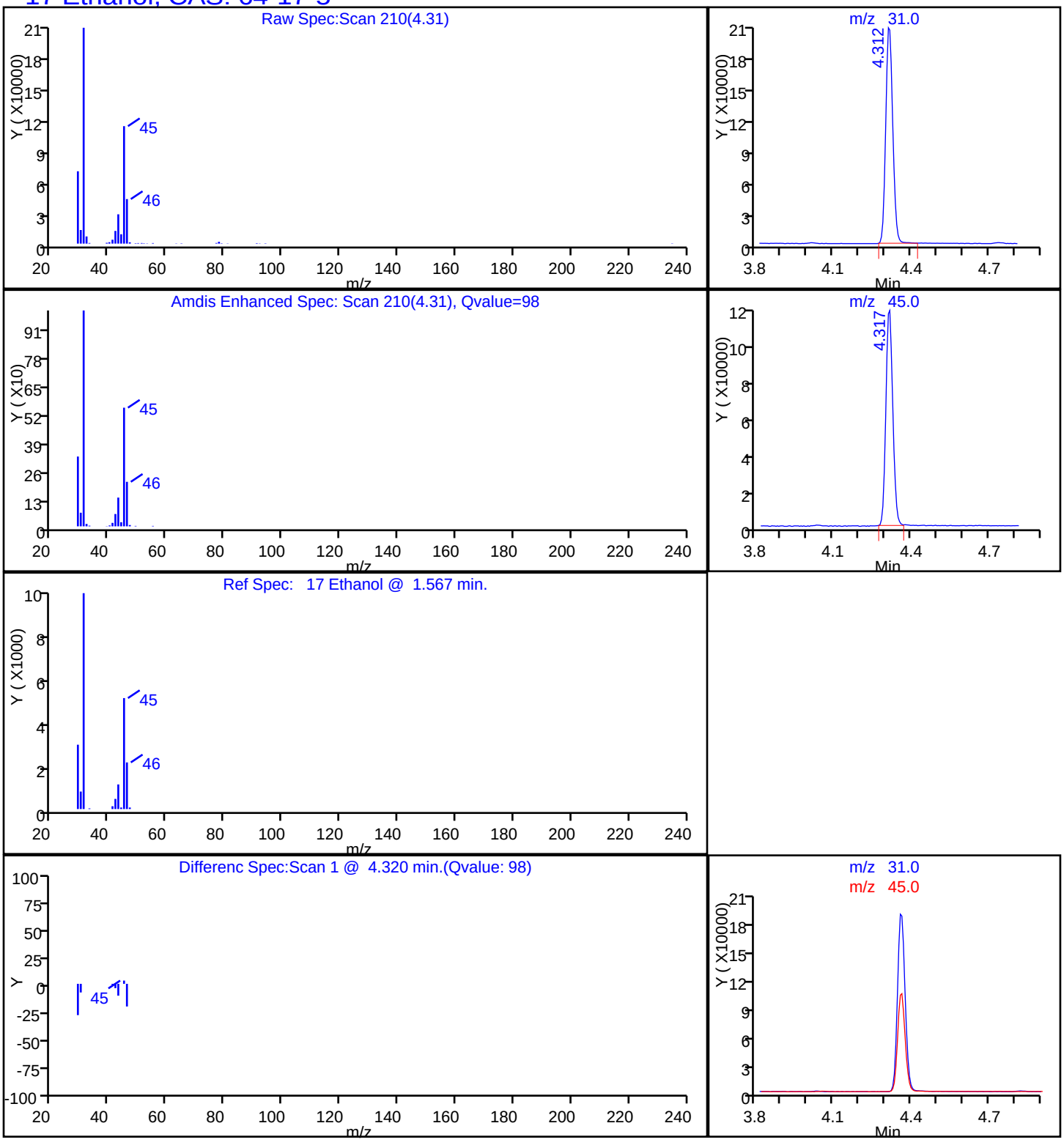
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

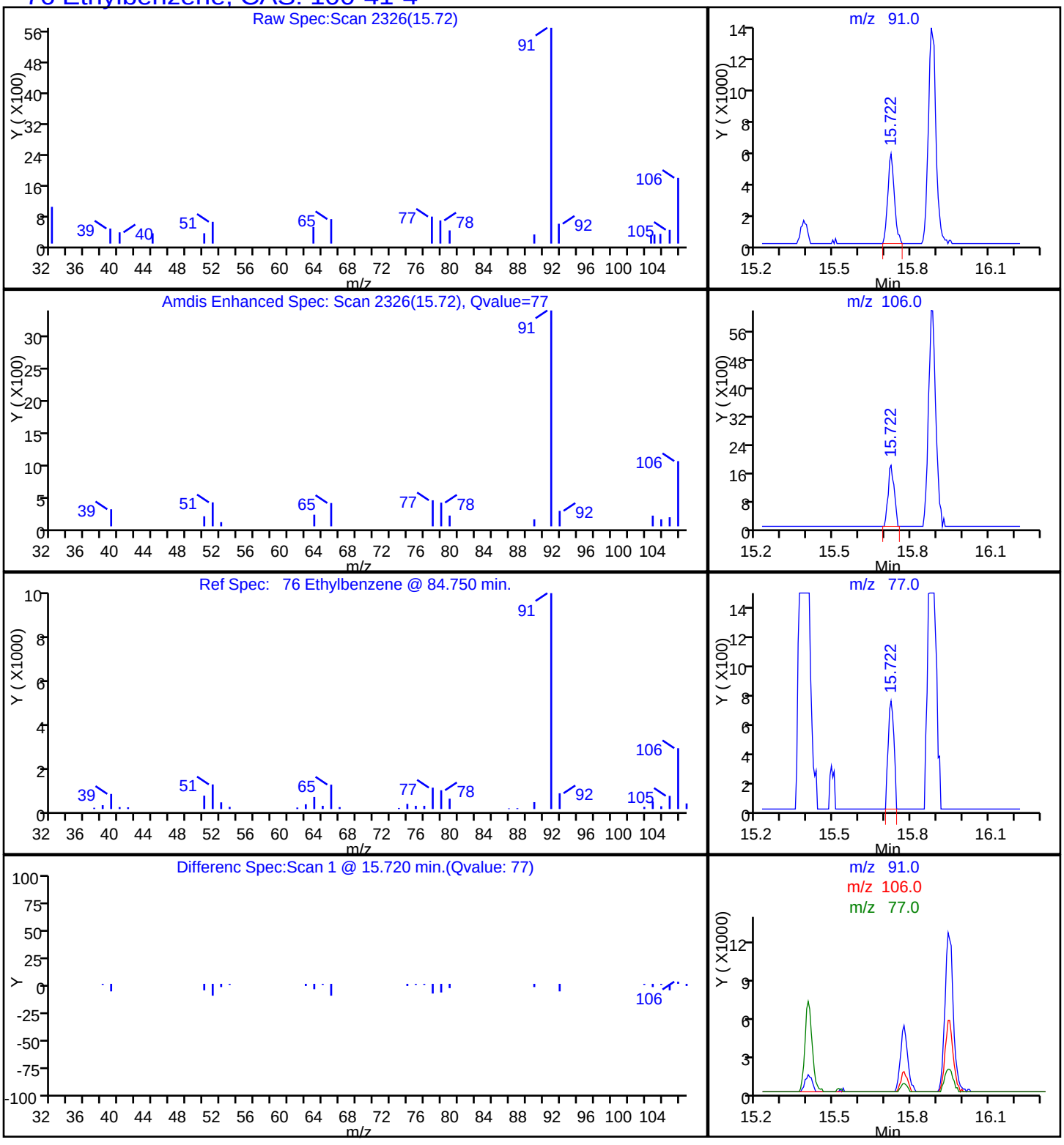


Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



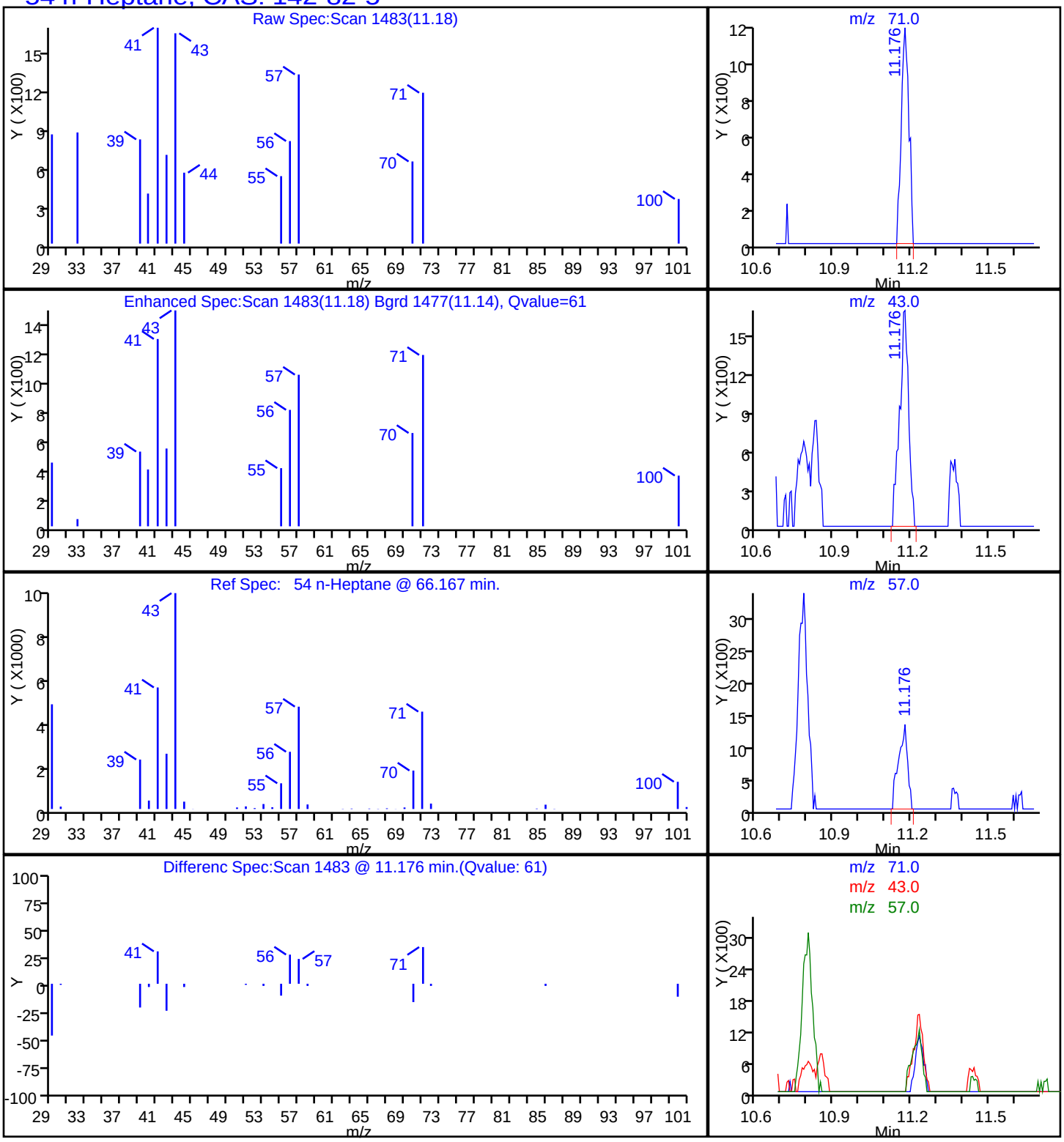
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



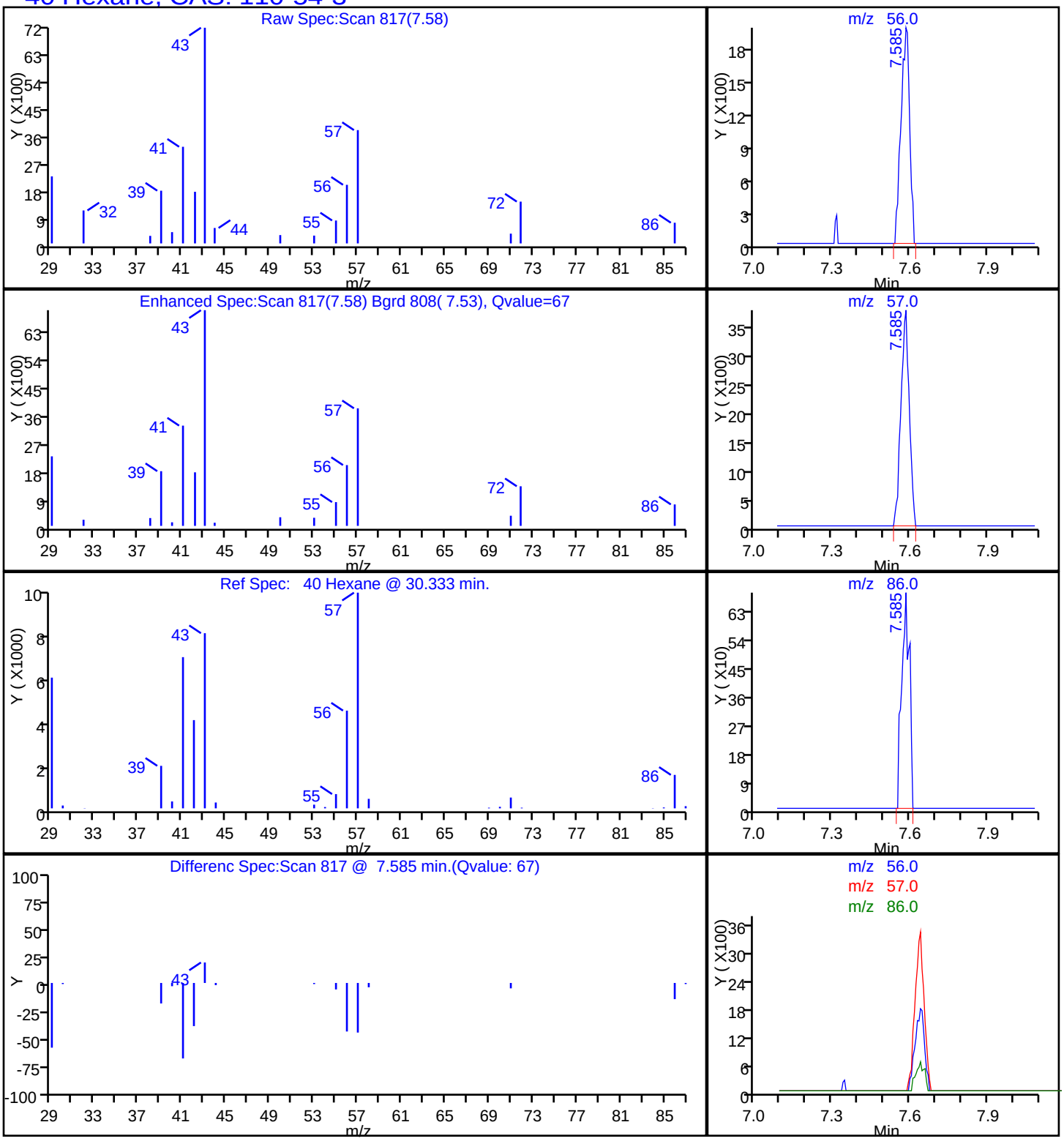
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

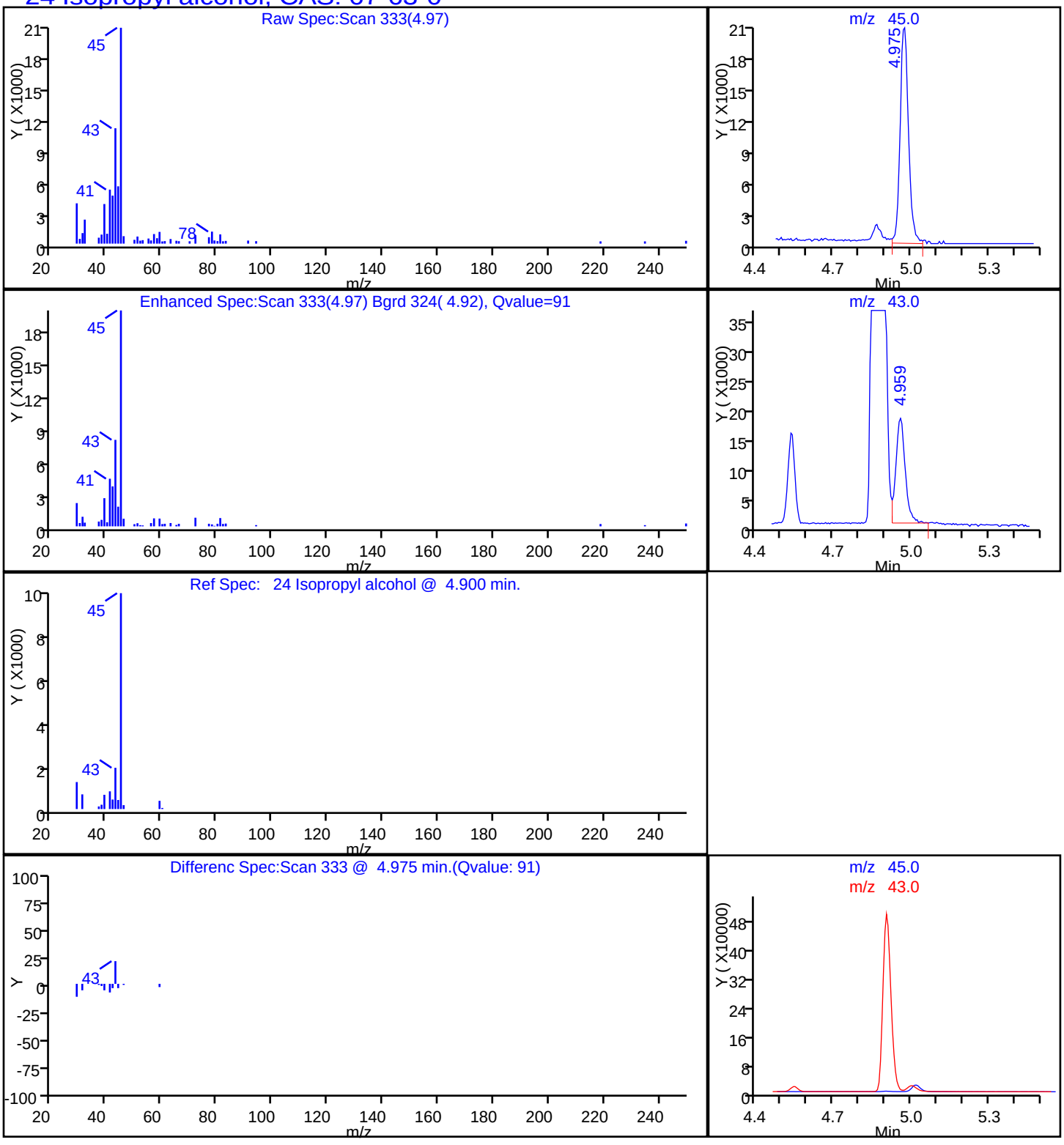


Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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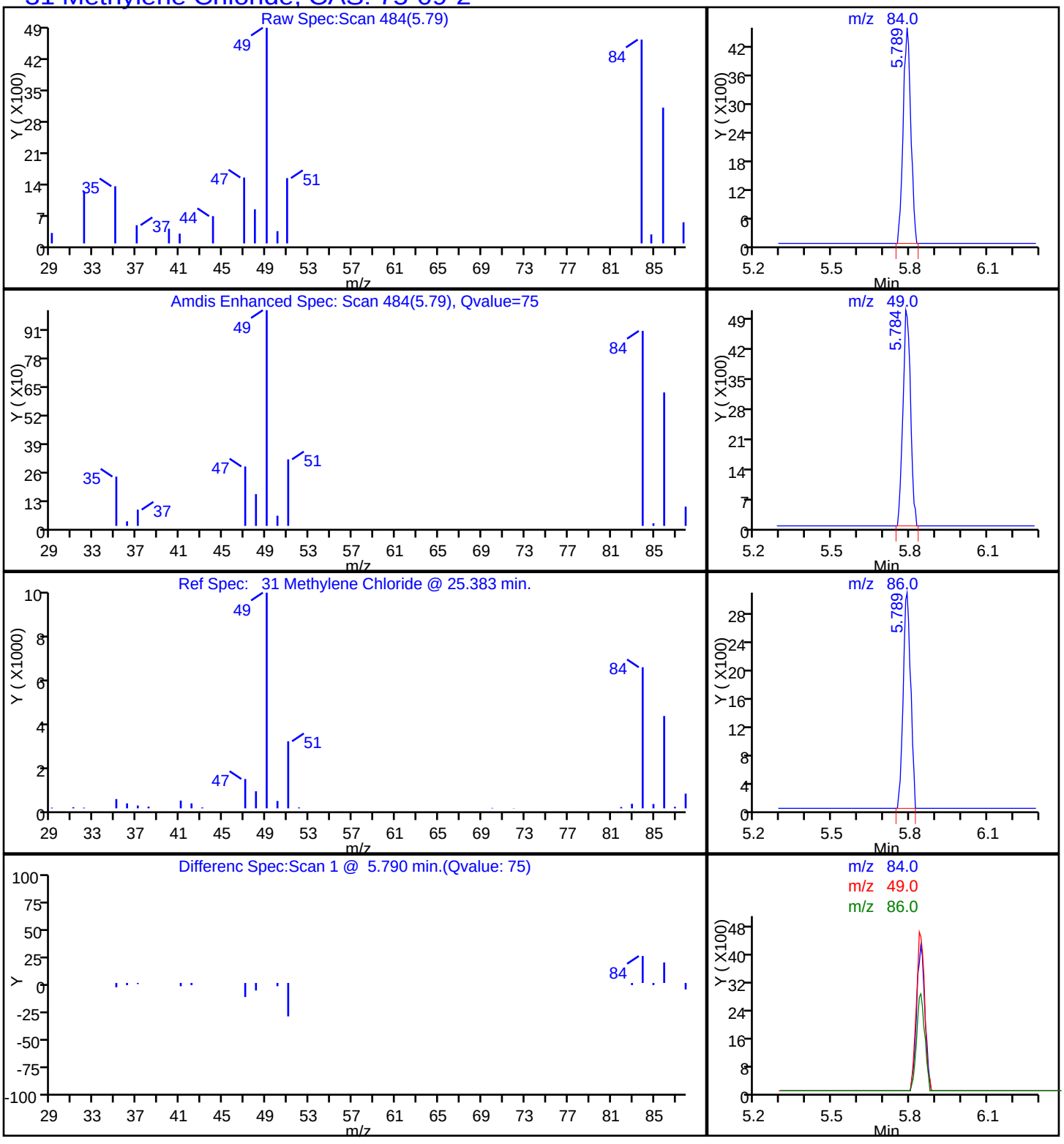
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

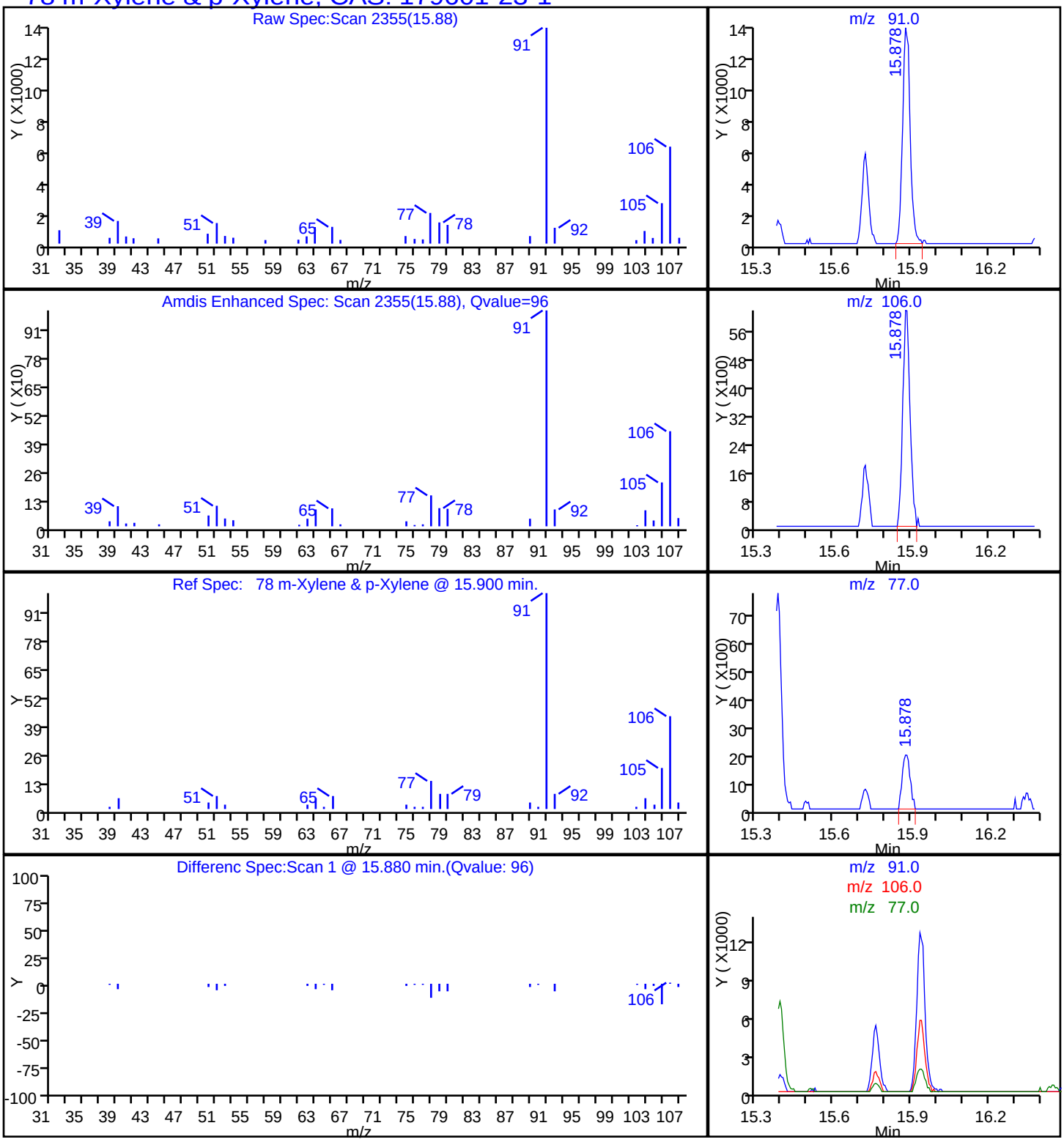


Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



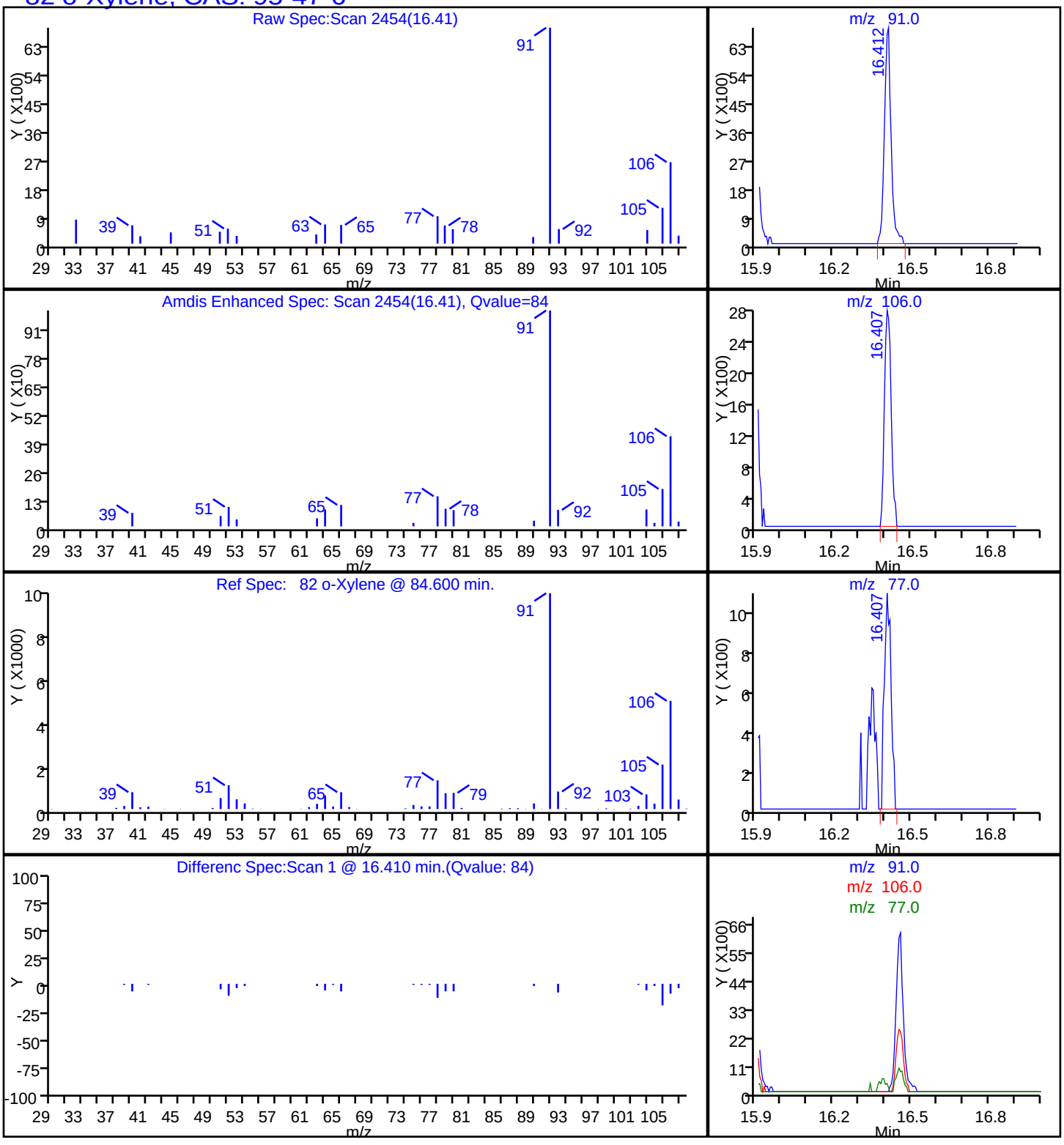
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



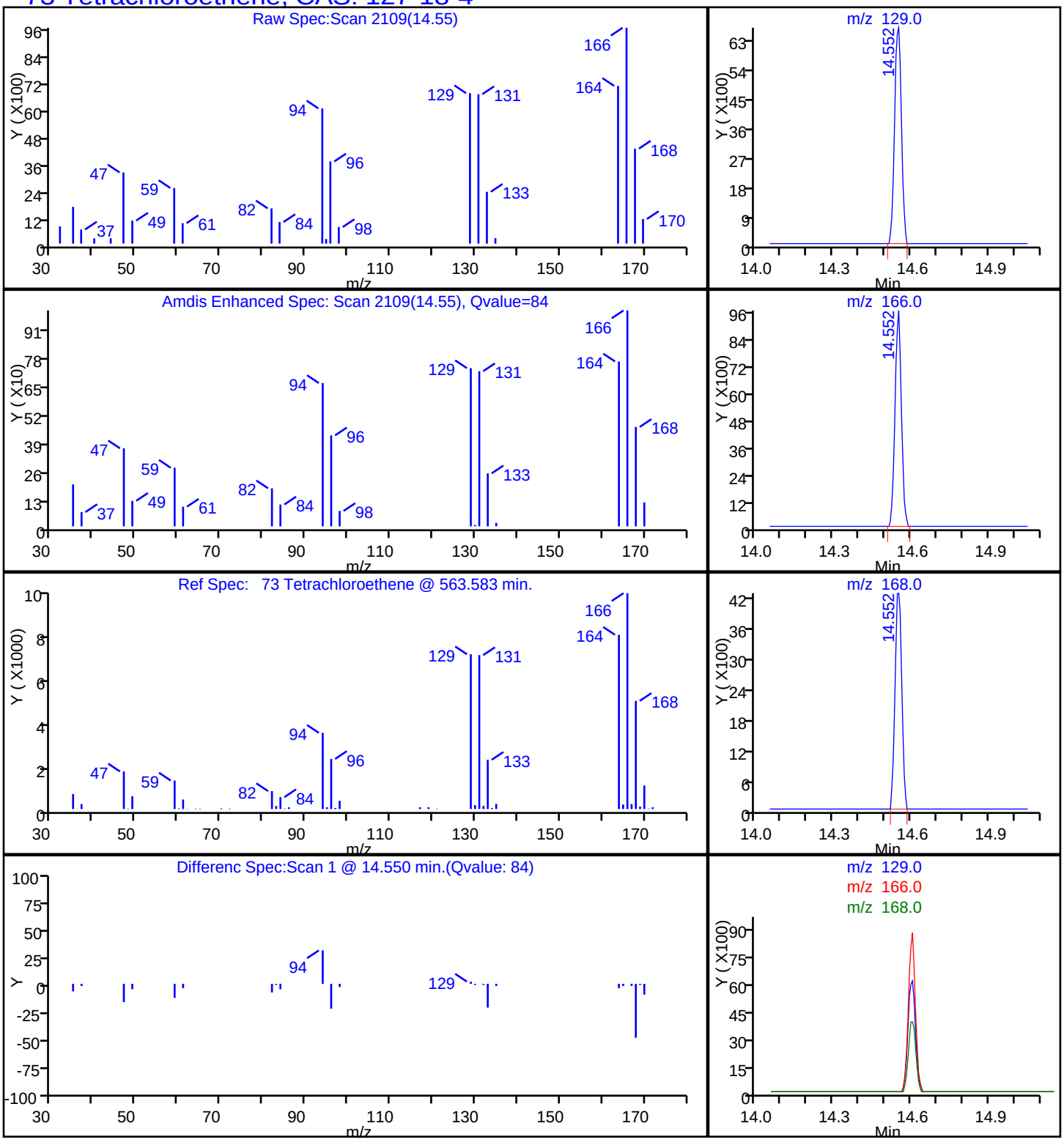
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

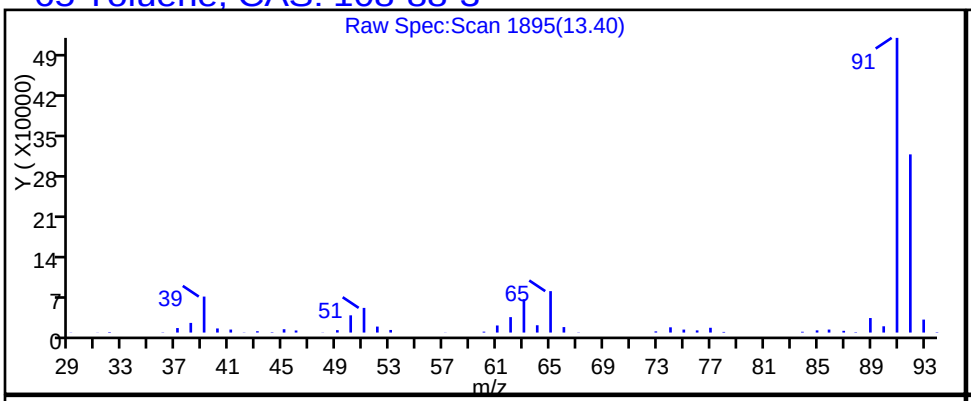


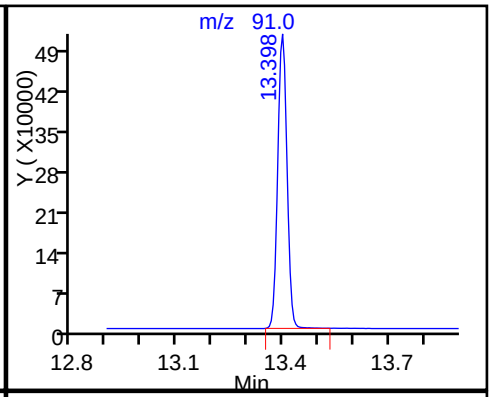
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

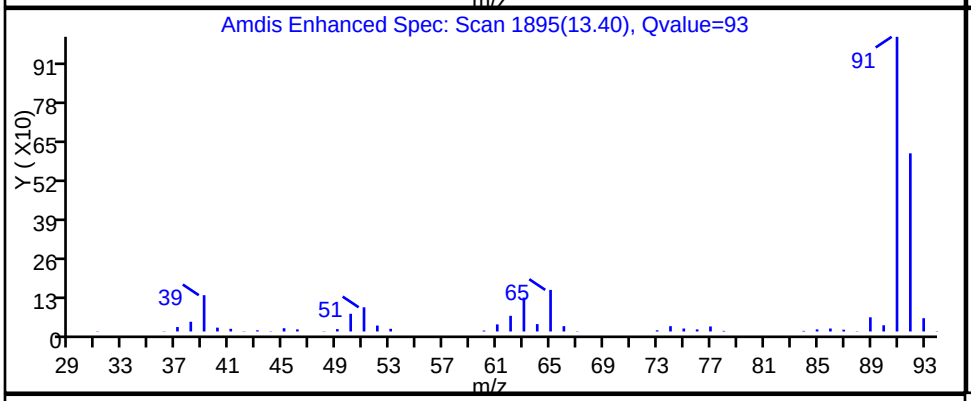
TestAmerica Knoxville

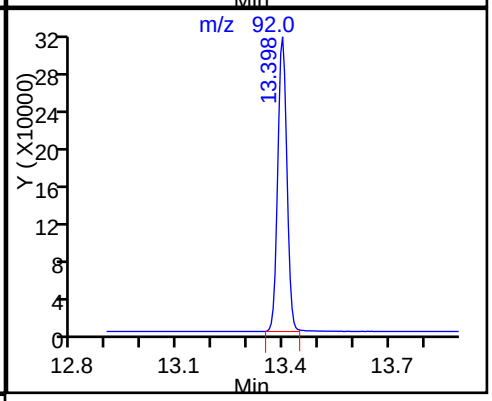
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D		
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5
Client ID:	PCV-IA1-B13		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

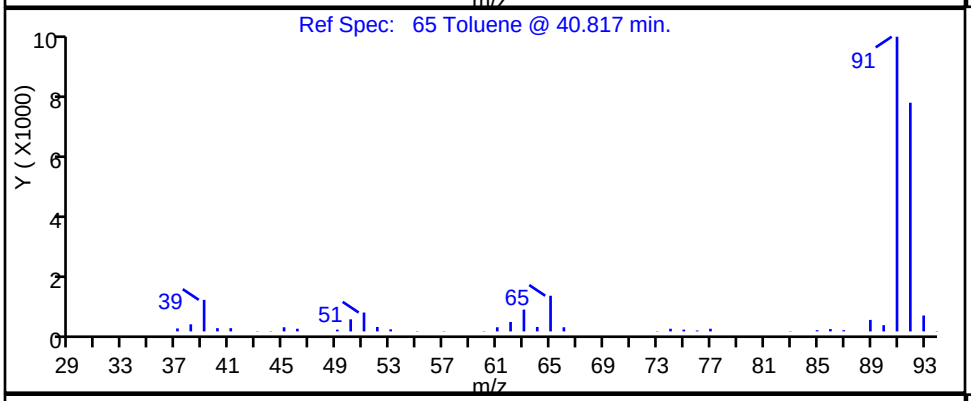
65 Toluene, CAS: 108-88-3

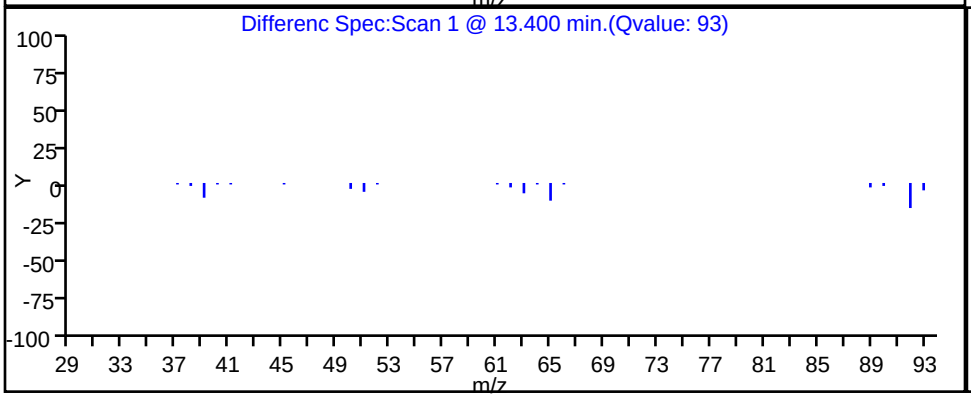


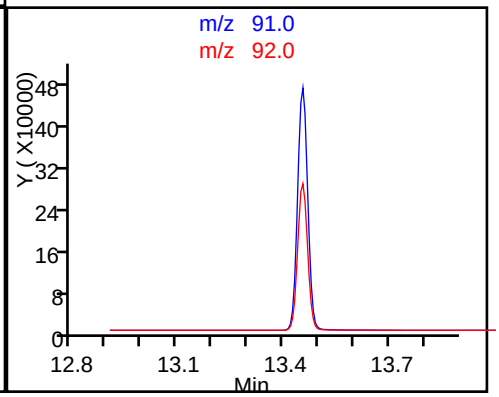












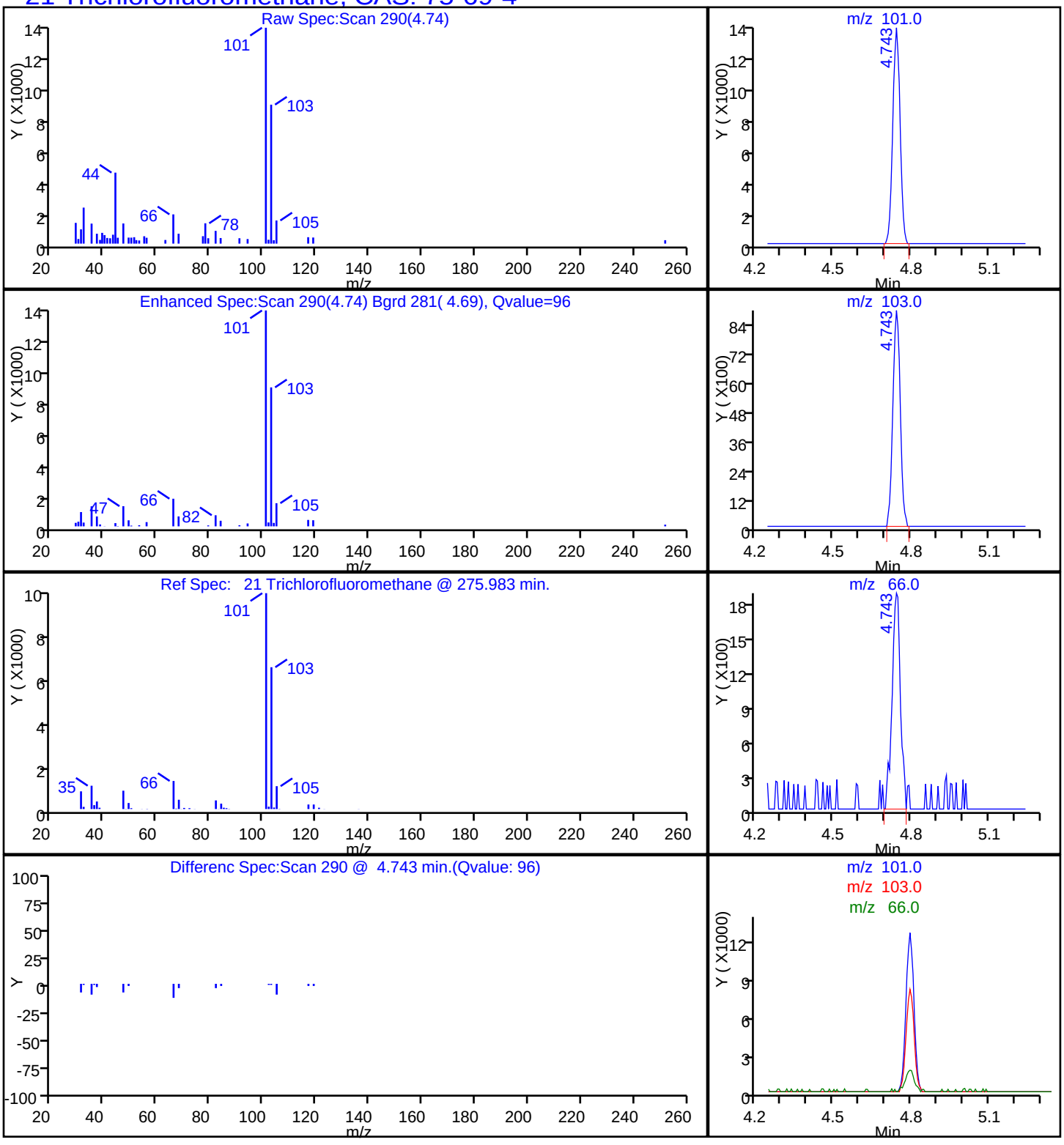
Report Date: 17-Mar-2014 16:25:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D

Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

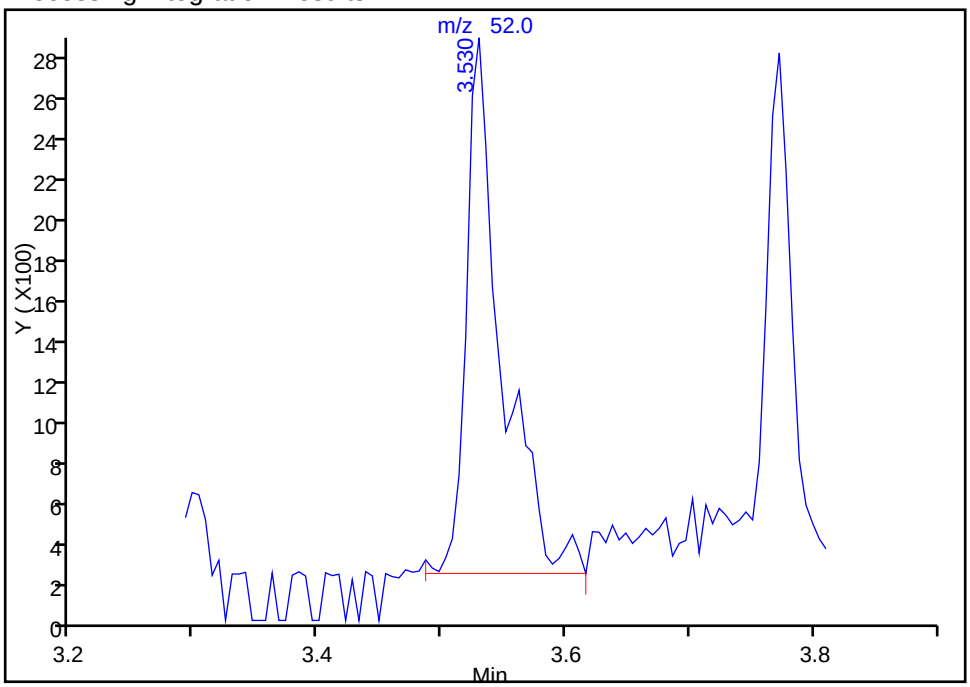
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P105.D				
Injection Date:	14-Mar-2014 17:56:30	Instrument ID:	ME		
Lims ID:	140-1041-A-5	Lab Sample ID:	140-1041-5		
Client ID:	PCV-IA1-B13				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

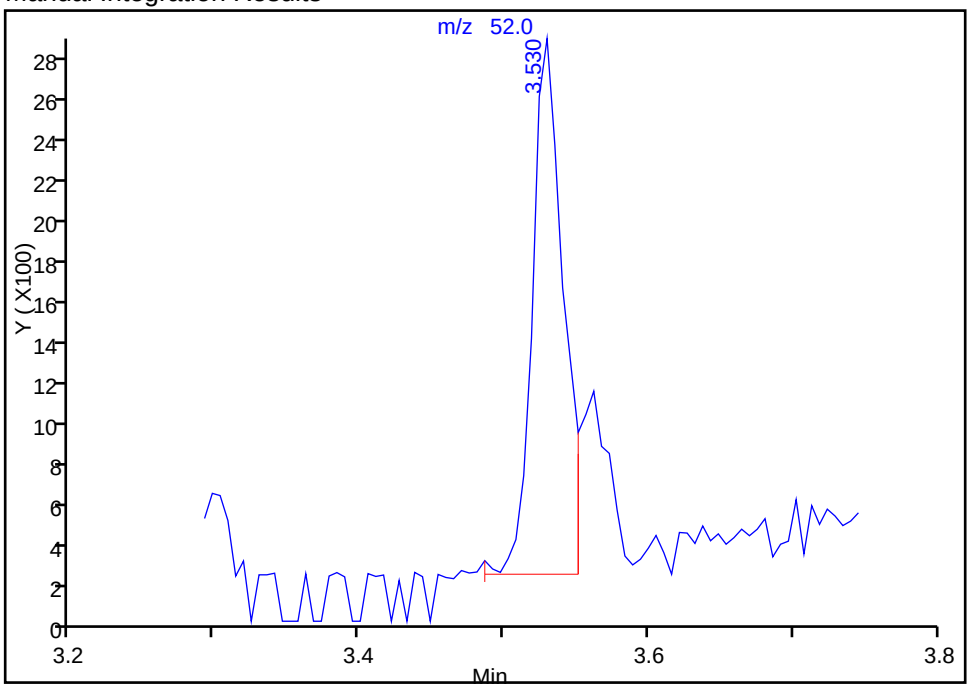
Processing Integration Results

RT: 3.53
Response: 5227
Amount: 0.287368



Manual Integration Results

RT: 3.53
Response: 3975
Amount: 0.218536



Reviewer: barlozhetskayaa, 17-Mar-2014 16:25:56
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	8.0		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	3.0		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.087	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.58	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.5		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.21		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	3.4		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.41	J	0.50	0.045
67-64-1	*Acetone*	*58.08*	*560*	*E*	*5.0*	*1.4*
71-43-2	Benzene	78.11	0.51		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.033	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.24		0.20	0.038
74-87-3	Chloromethane	50.49	0.57		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.092	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.69		0.20	0.068
64-17-5	Ethanol	46.07	29		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.63		0.20	0.068
142-82-5	Heptane	100.21	0.31	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.26	J	0.50	0.032
496-11-7	Indane	118.18	0.79		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.36	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.9		0.20	0.12
91-20-3	Naphthalene	128.17	2.9		0.50	0.090
95-47-6	o-Xylene	106.17	1.2		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	1.1		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.14	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	*Toluene*	*92.14*	*110*	*E*	*0.20*	*0.12*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	39		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	15		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.41	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.7	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	4.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.74		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	17		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.7	J	2.0	0.18
67-64-1	*Acetone*	*58.08*	*1300*	*E*	*12*	*3.3*
71-43-2	Benzene	78.11	1.6		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.10	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.2		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.32	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	3.4		0.99	0.34
64-17-5	Ethanol	46.07	55		3.8	3.8
100-41-4	Ethylbenzene	106.17	2.7		0.87	0.30
142-82-5	Heptane	100.21	1.3	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.93	J	1.8	0.11
496-11-7	Indane	118.18	3.8		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.5		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	13		0.87	0.52
91-20-3	Naphthalene	128.17	15		2.6	0.47
95-47-6	o-Xylene	106.17	5.4		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	4.5		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.96	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	*Toluene*	*92.14*	*430*	*E*	*0.75*	*0.45*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 Lab Sample ID: 140-1041-6

Matrix: Air Lab File ID: EC14P106.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D
Lims ID: 140-1041-A-6 Lab Sample ID: 140-1041-6
Client ID: PCV-IA2-B13
Sample Type: Client
Inject. Date: 14-Mar-2014 18:42:30 ALS Bottle#: 6 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-6
Misc. Info.: E031414,TO155,,140-0000522-011
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:27:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:27:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.345	0.011	80	203912	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.578	0.005	96	1031675	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	946594	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	85	916440	4.42	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	96	62410	0.2767	
9 Chloromethane	52	3.535	3.535	0.005	99	4094	0.2274	M
17 Ethanol	31	4.328	4.317	0.011	98	238759	11.7	
19 2-Methylbutane	43	4.538	4.538	0.0	86	41946	0.5874	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	94	24935	0.1102	
23 Acetone	58	4.894	4.883	0.011	98	6895771	223.3	E
24 Isopropyl alcohol	45	4.980	4.975	0.005	63	71136	0.8946	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	61	3962	0.0283	
31 Methylene Chloride	84	5.821	5.795	0.026	75	8462	0.1452	
33 Carbon disulfide	76	5.940	5.940	0.0	75	2753	0.0130	
35 2-Methylpentane	43	6.603	6.603	0.0	82	11337	0.0844	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	95	7790	0.2334	
40 Hexane	56	7.574	7.590	-0.016	80	5698	0.1051	
43 Chloroform	83	8.367	8.356	0.011	24	17007	0.0973	
49 Cyclohexane	69	9.990	9.984	0.006	56	1438	0.0369	
48 Benzene	78	10.006	9.995	0.011	96	42234	0.2034	
50 Carbon tetrachloride	117	10.022	10.017	0.005	73	5140	0.0258	
53 Isooctane	57	10.777	10.788	-0.011	74	11149	0.0348	
54 n-Heptane	71	11.176	11.182	-0.006	76	9747	0.1240	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	92	20274	0.1658	
65 Toluene	91	13.419	13.403	0.016	90	11538729	45.5	E
73 Tetrachloroethene	129	14.552	14.552	0.0	81	6135	0.0568	
76 Ethylbenzene	91	15.722	15.722	0.0	99	81985	0.2522	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	296301	1.16	
80 Styrene	104	16.353	16.353	0.0	96	75042	0.4242	
82 o-Xylene	91	16.412	16.412	0.0	96	137517	0.4977	
88 4-Ethyltoluene	105	17.701	17.701	0.0	96	472686	1.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	188368	1.19	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	98	924211	3.18	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	78	80361	0.3165	
112 Naphthalene	128	20.796	20.796	0.0	98	243489	1.16	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

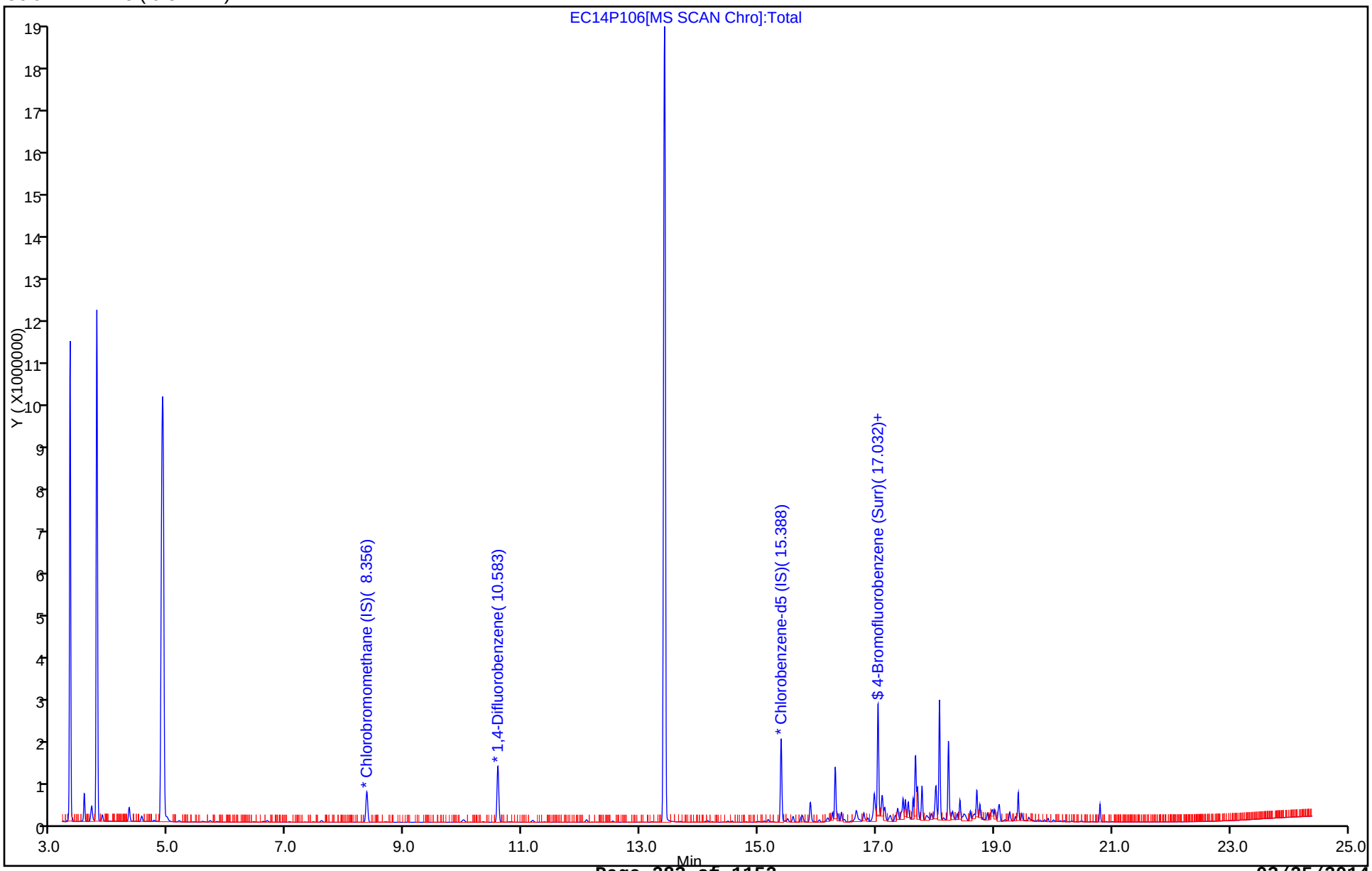
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

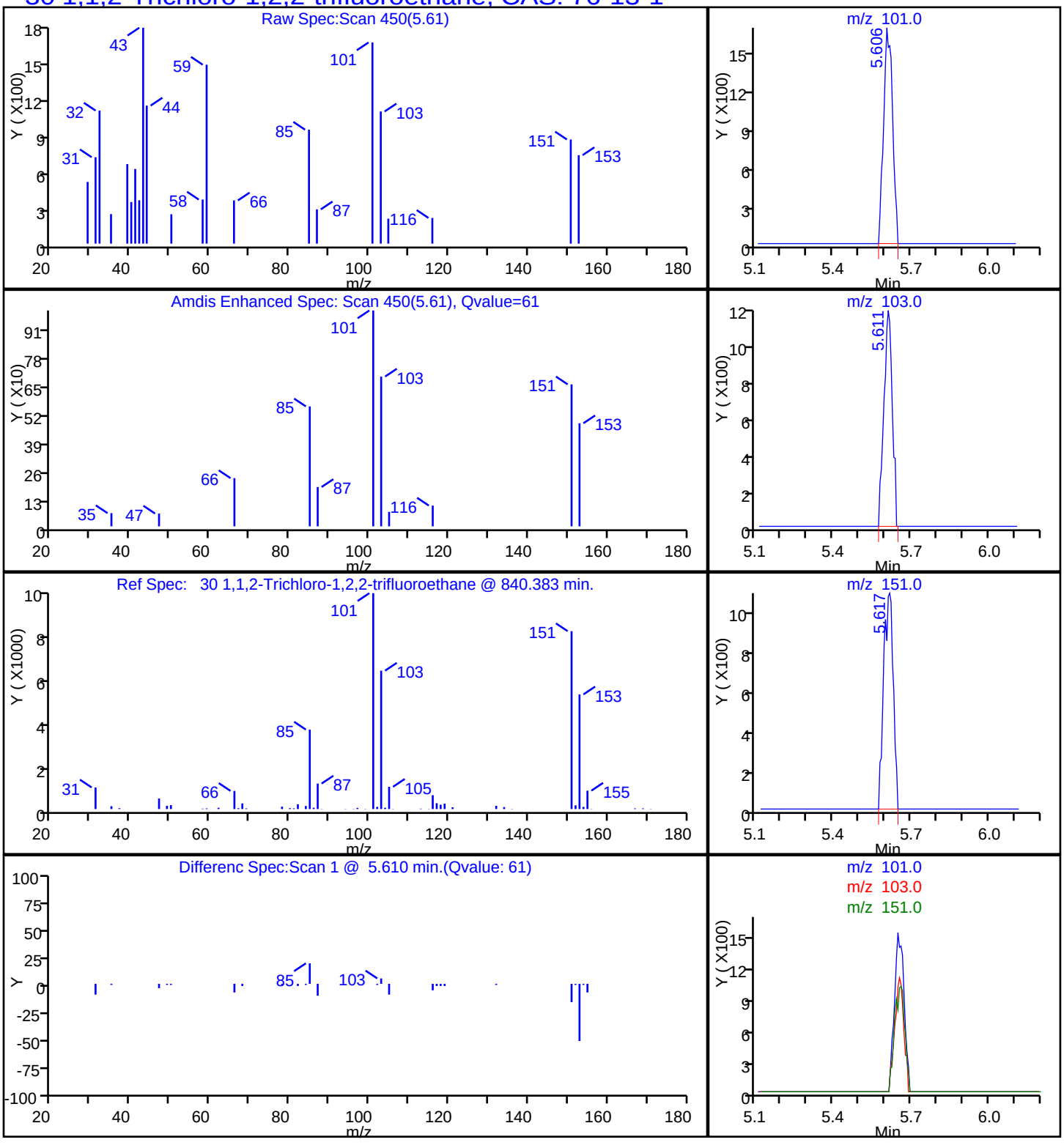
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6	Worklist Smp#:	11
Client ID:	PCV-IA2-B13				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



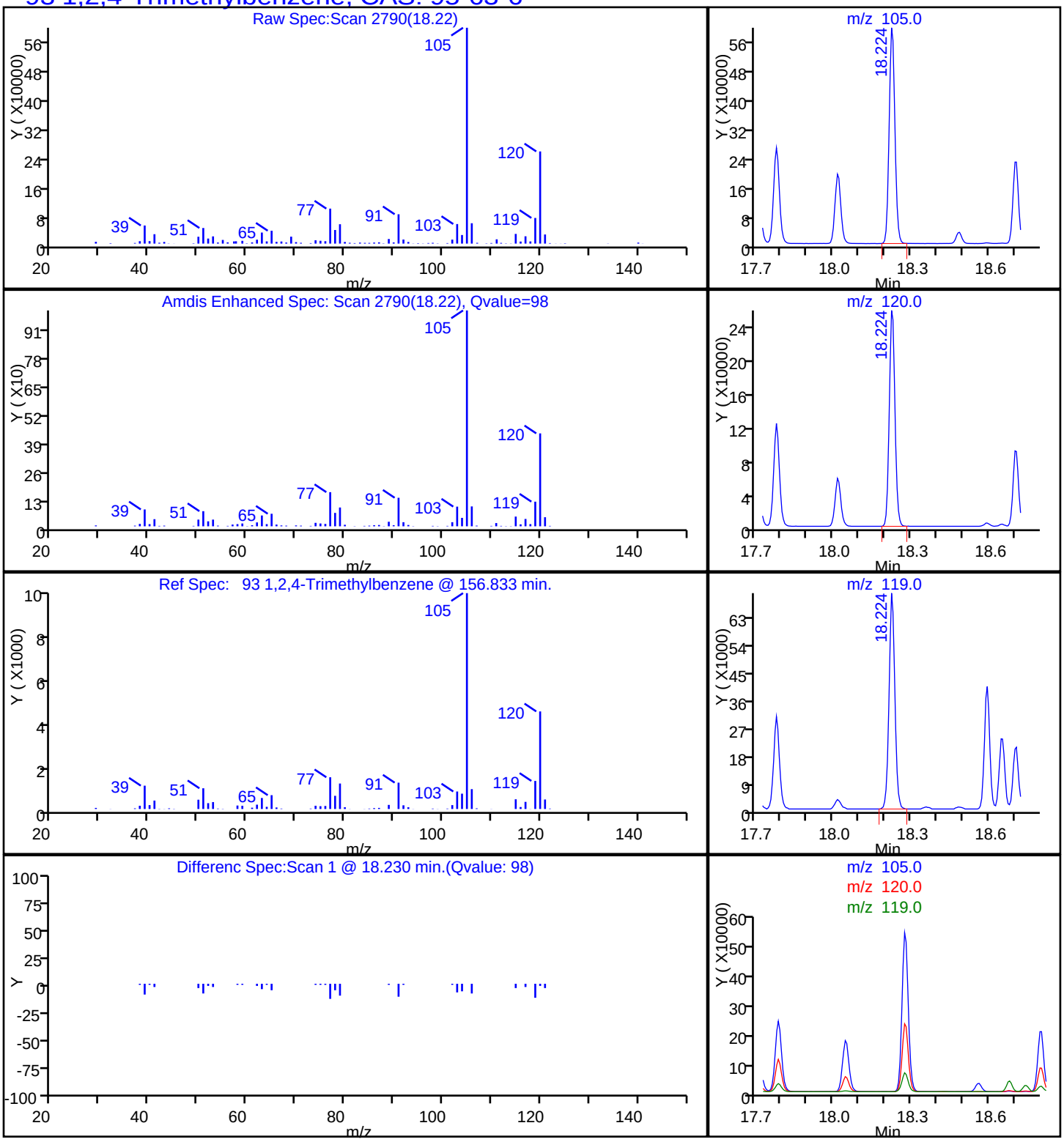
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

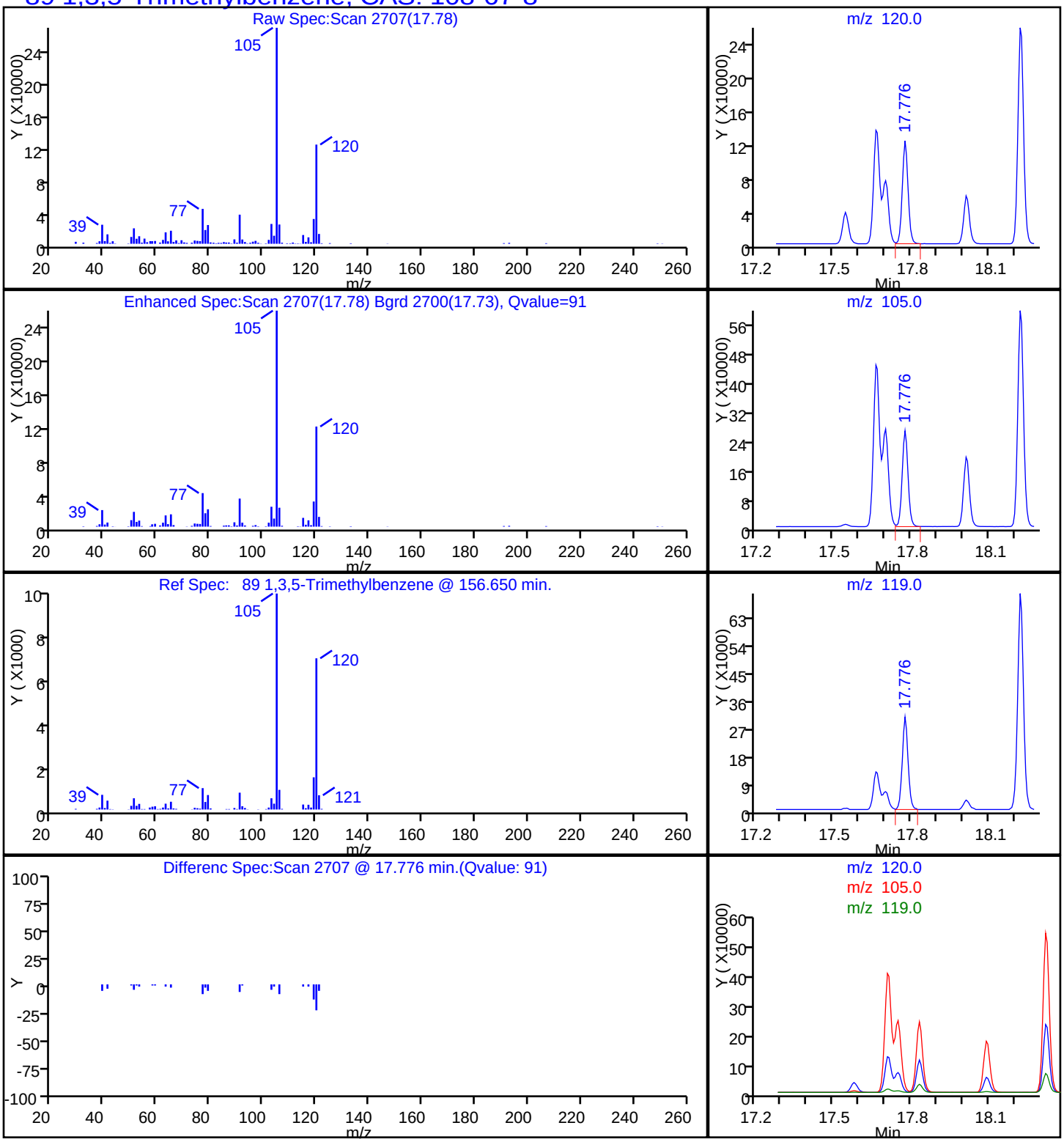


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8

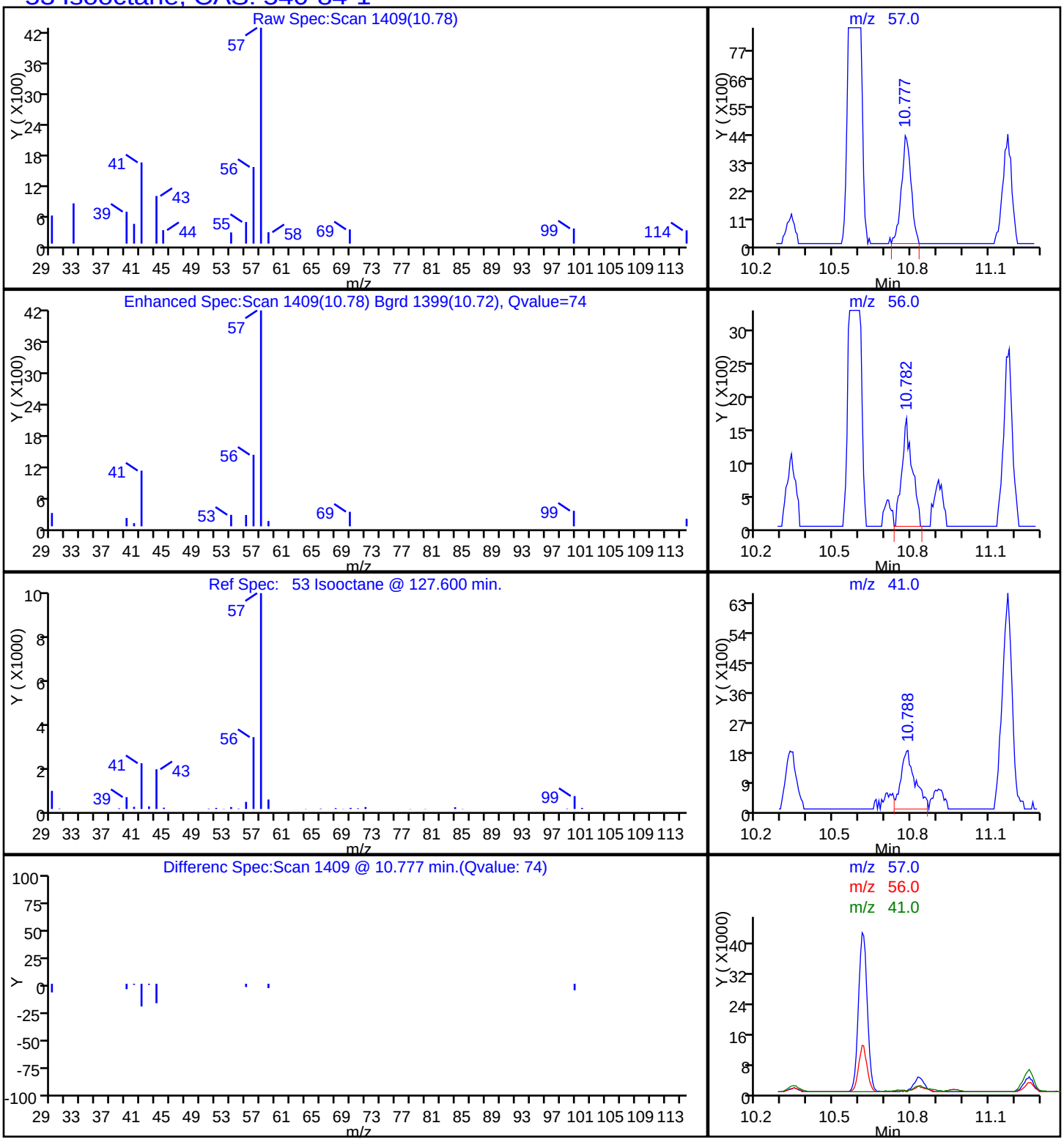


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



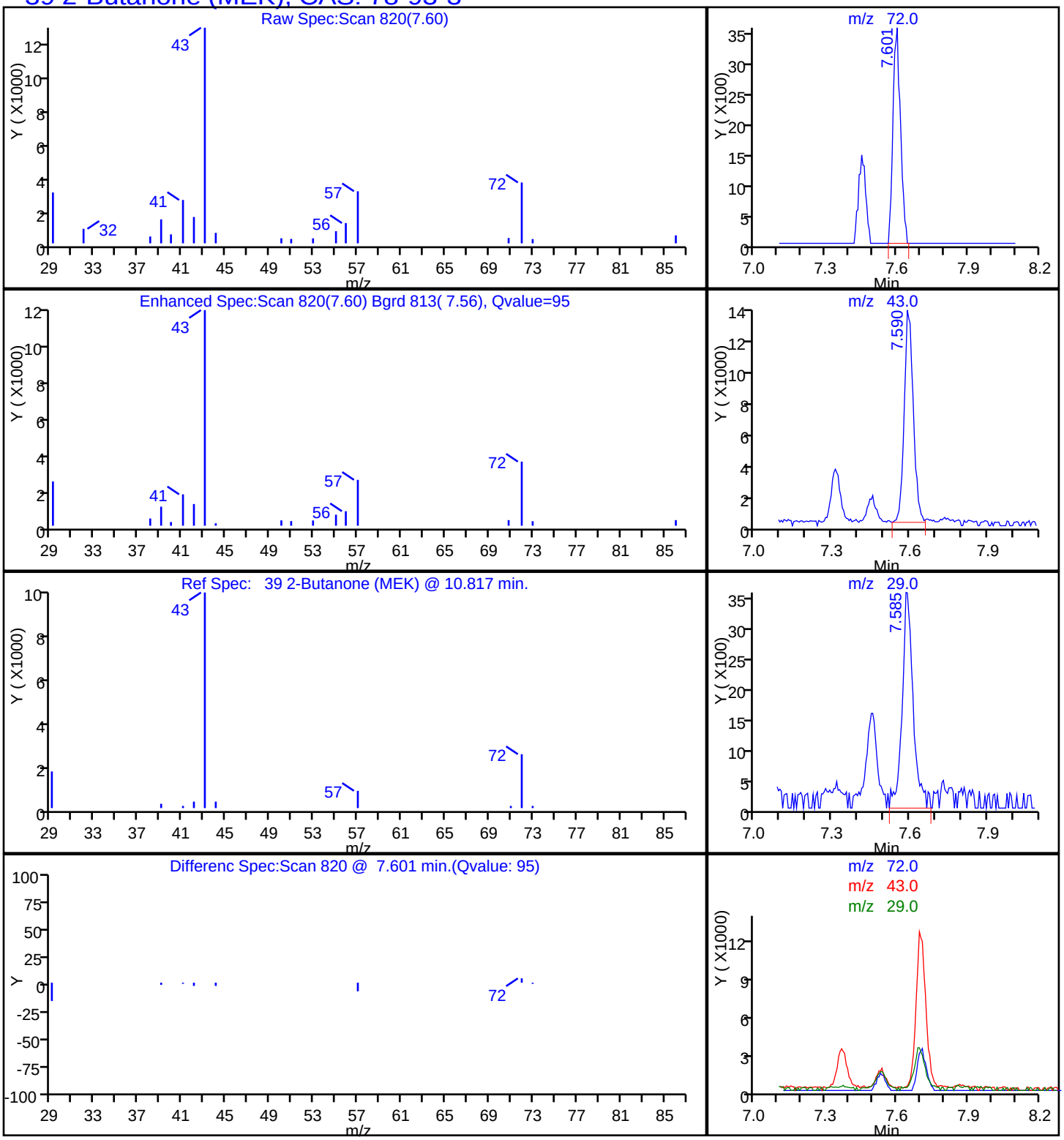
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



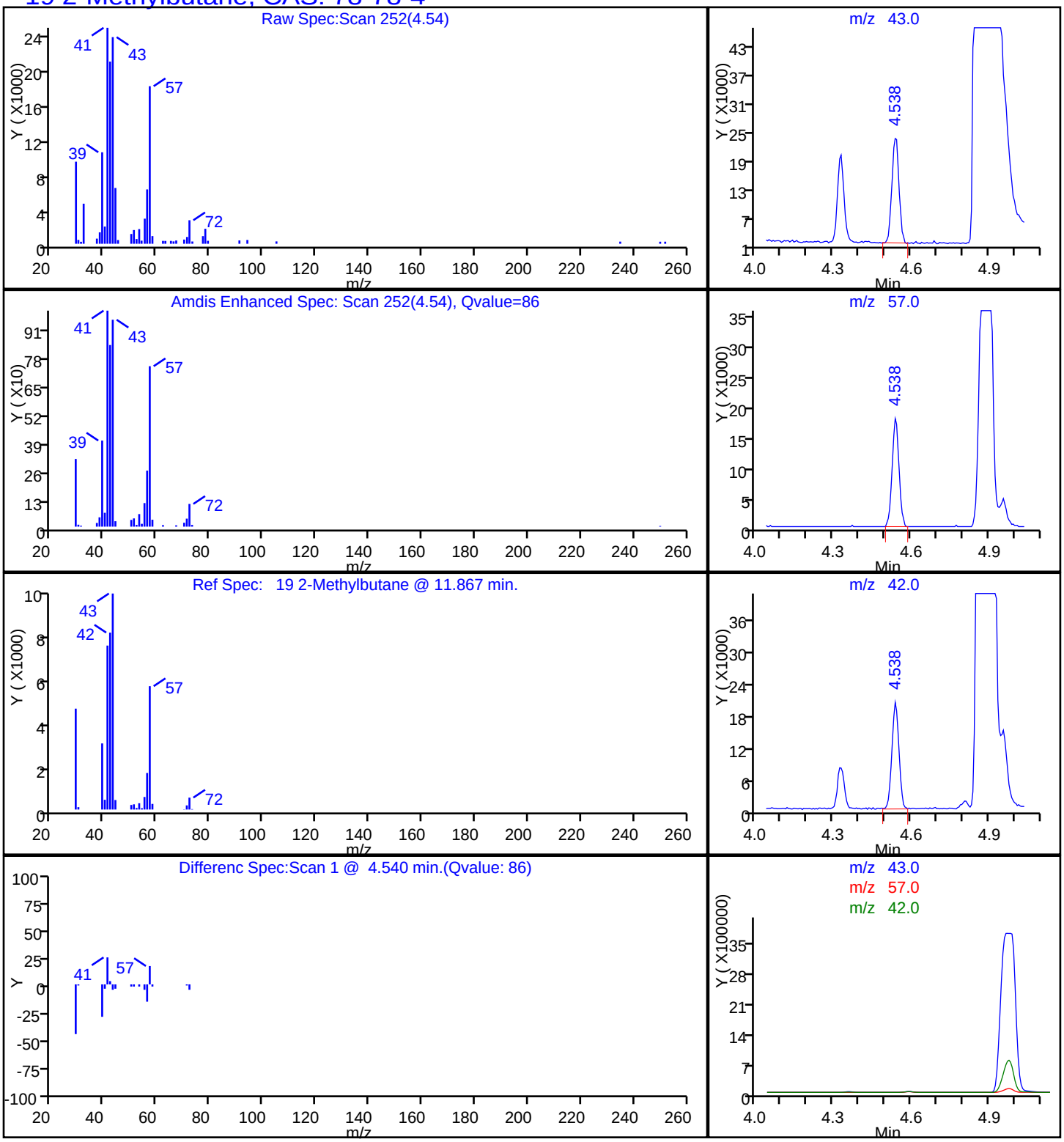
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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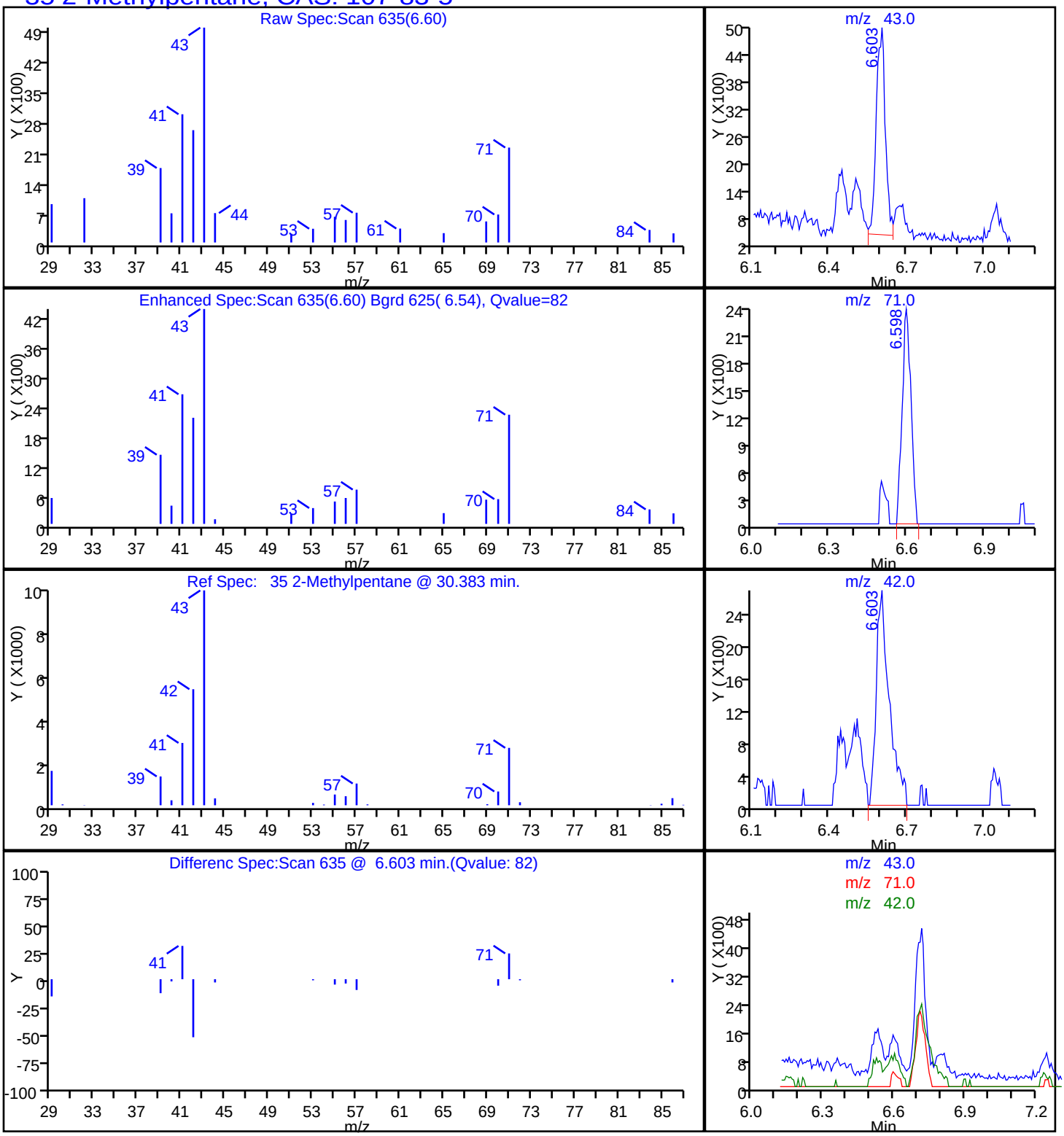
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D		
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5



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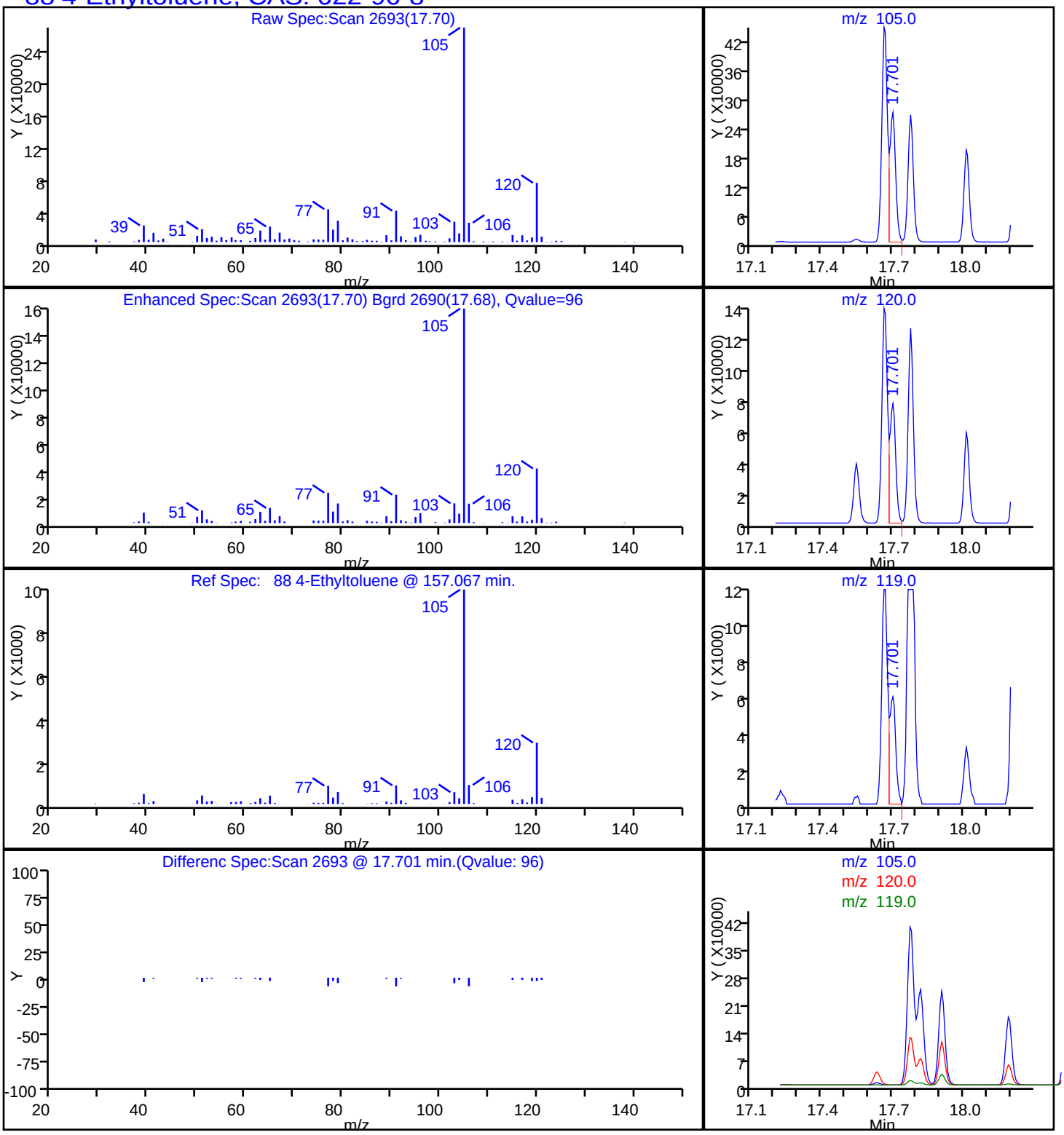
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

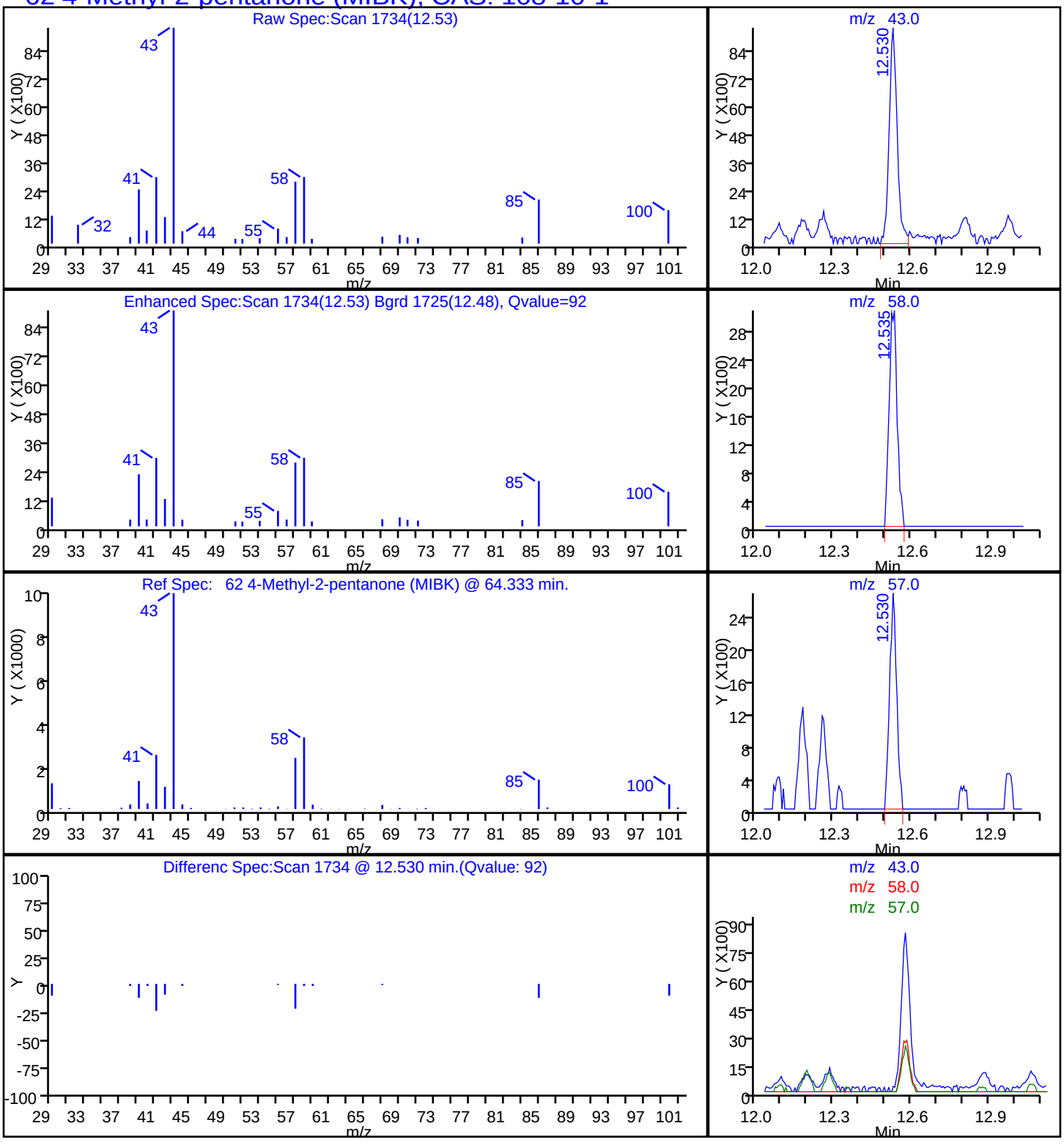


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D		
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



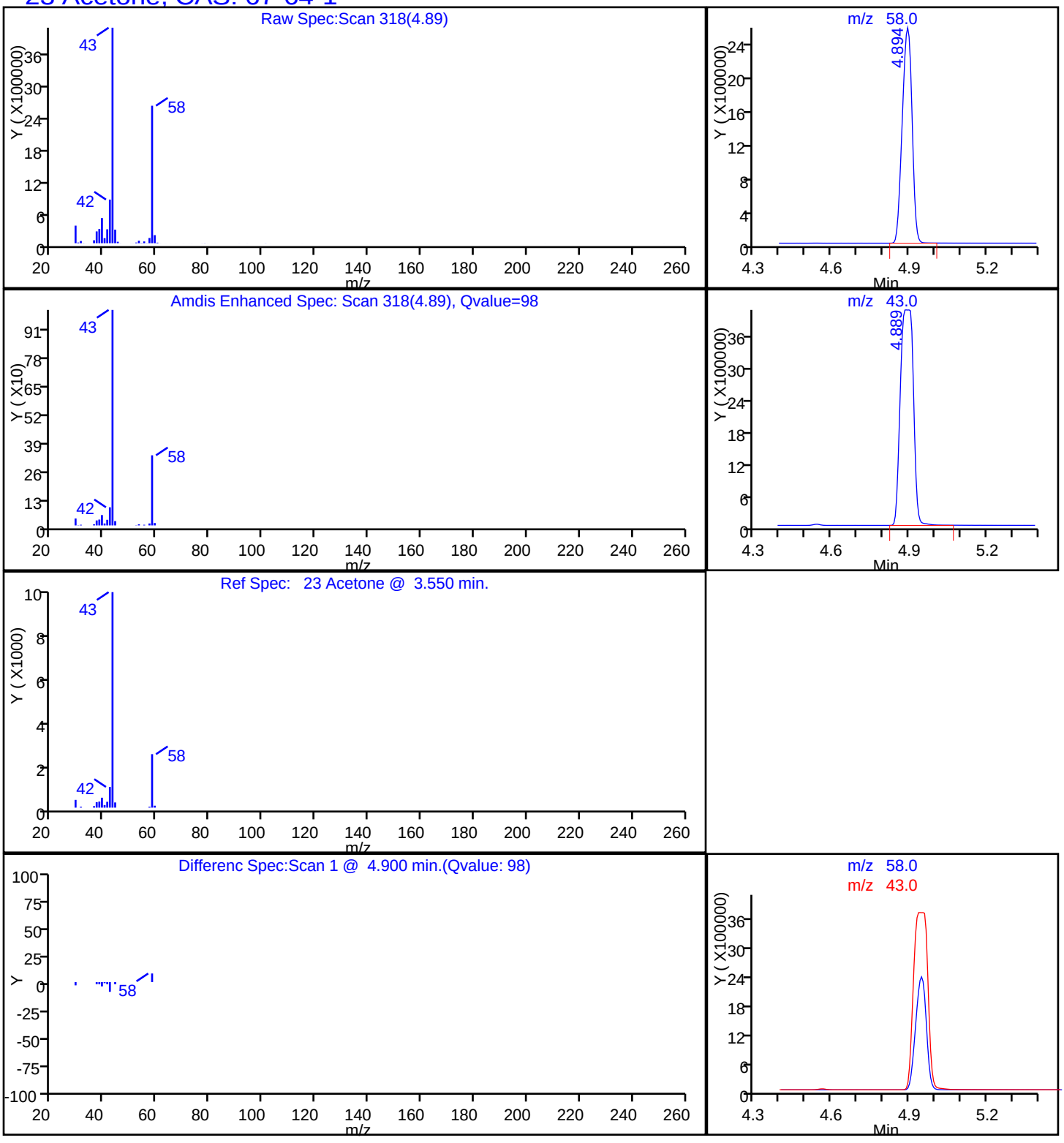
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

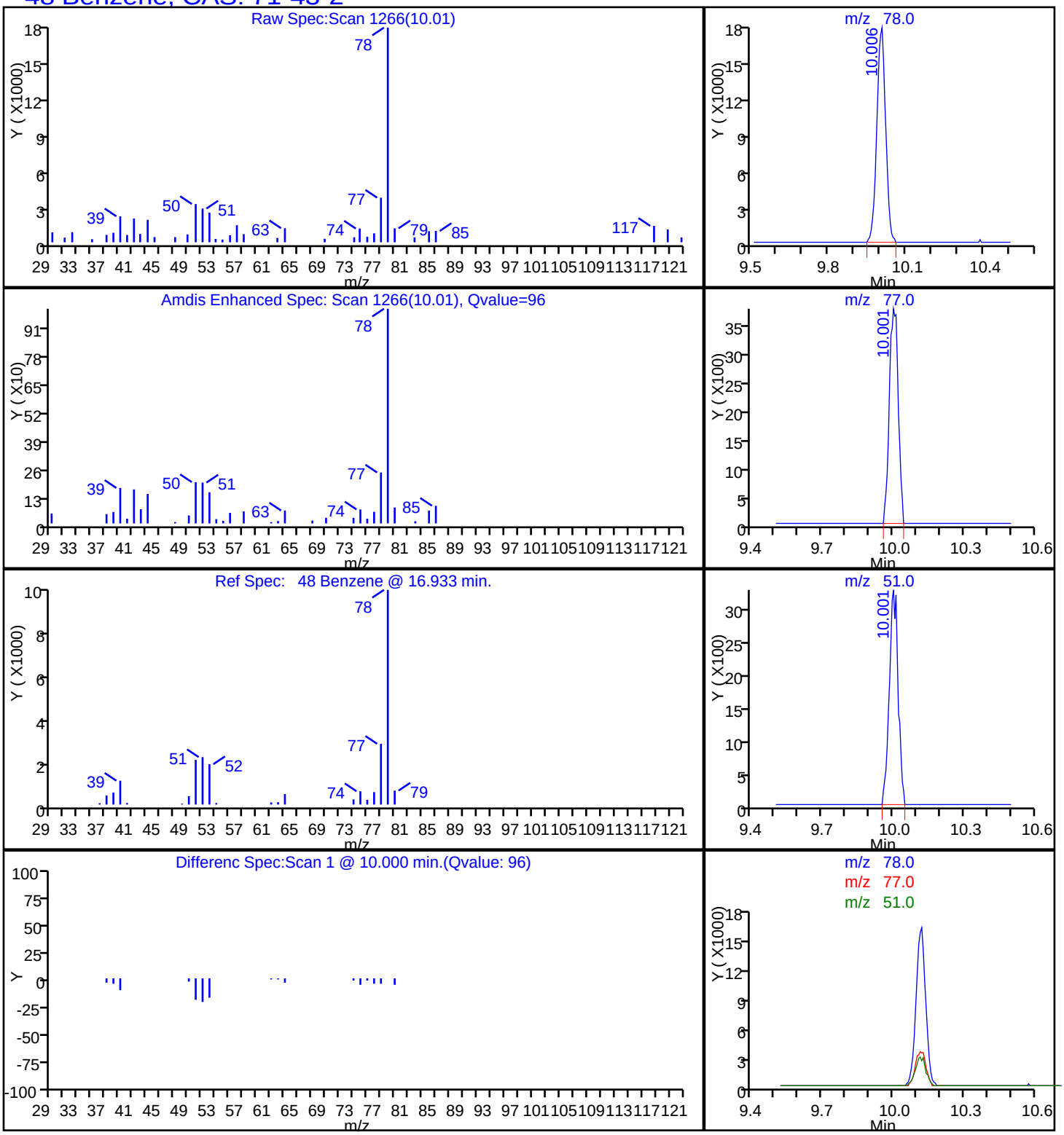


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D		
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



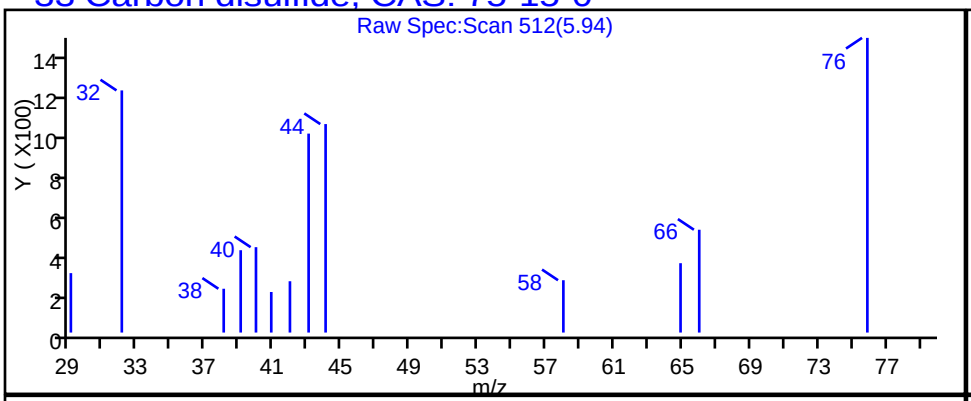
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

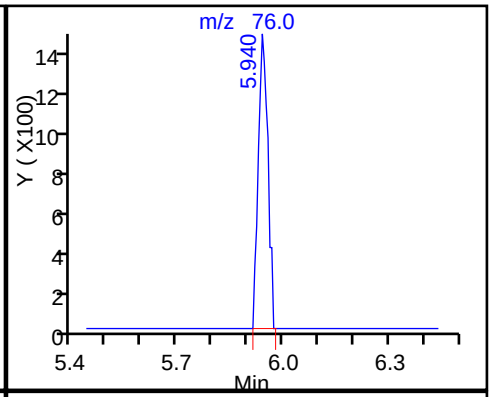
TestAmerica Knoxville

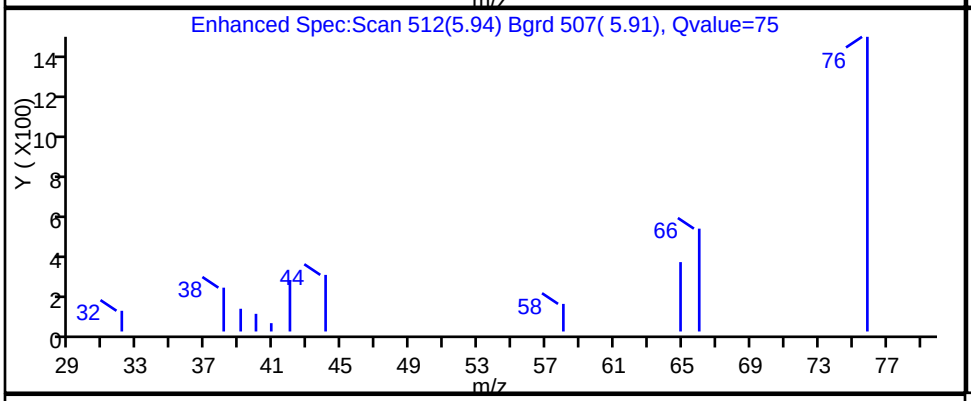
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

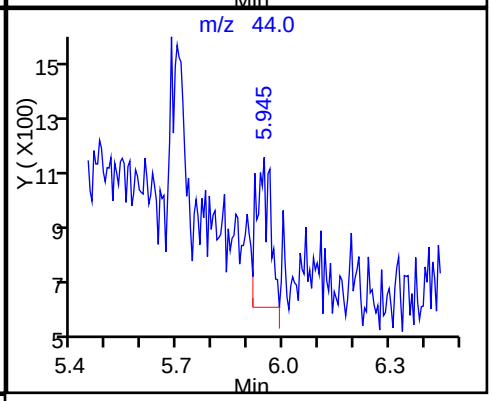
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

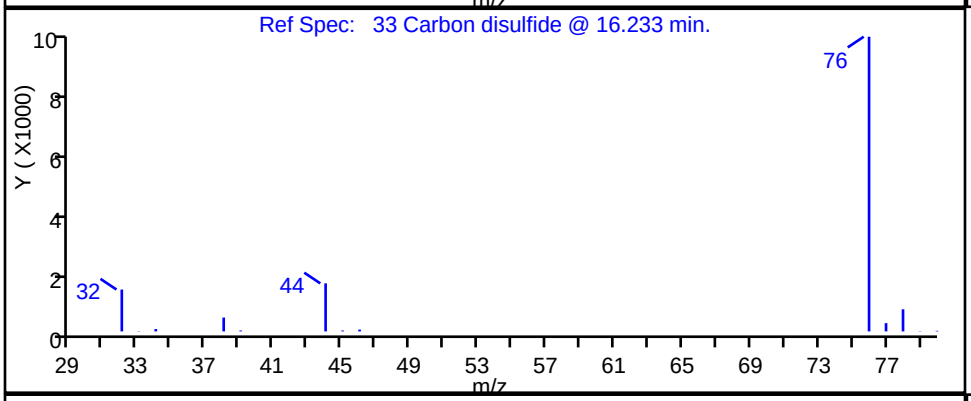
33 Carbon disulfide, CAS: 75-15-0

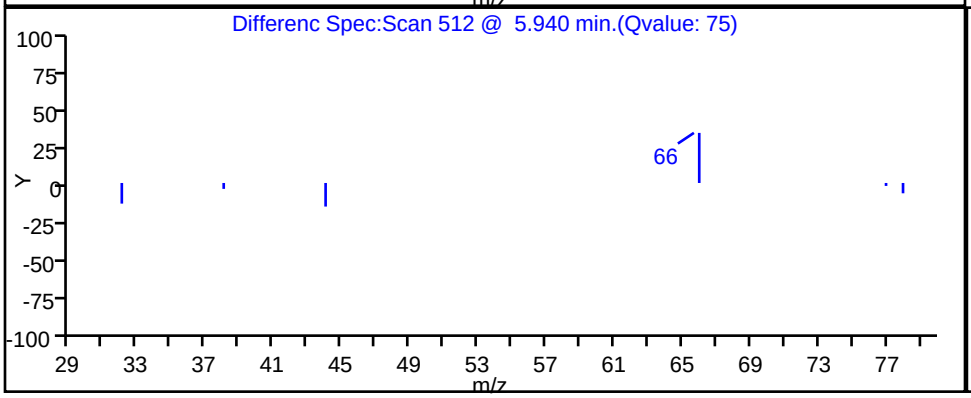


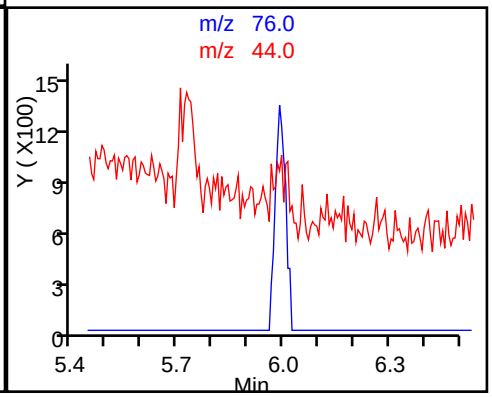












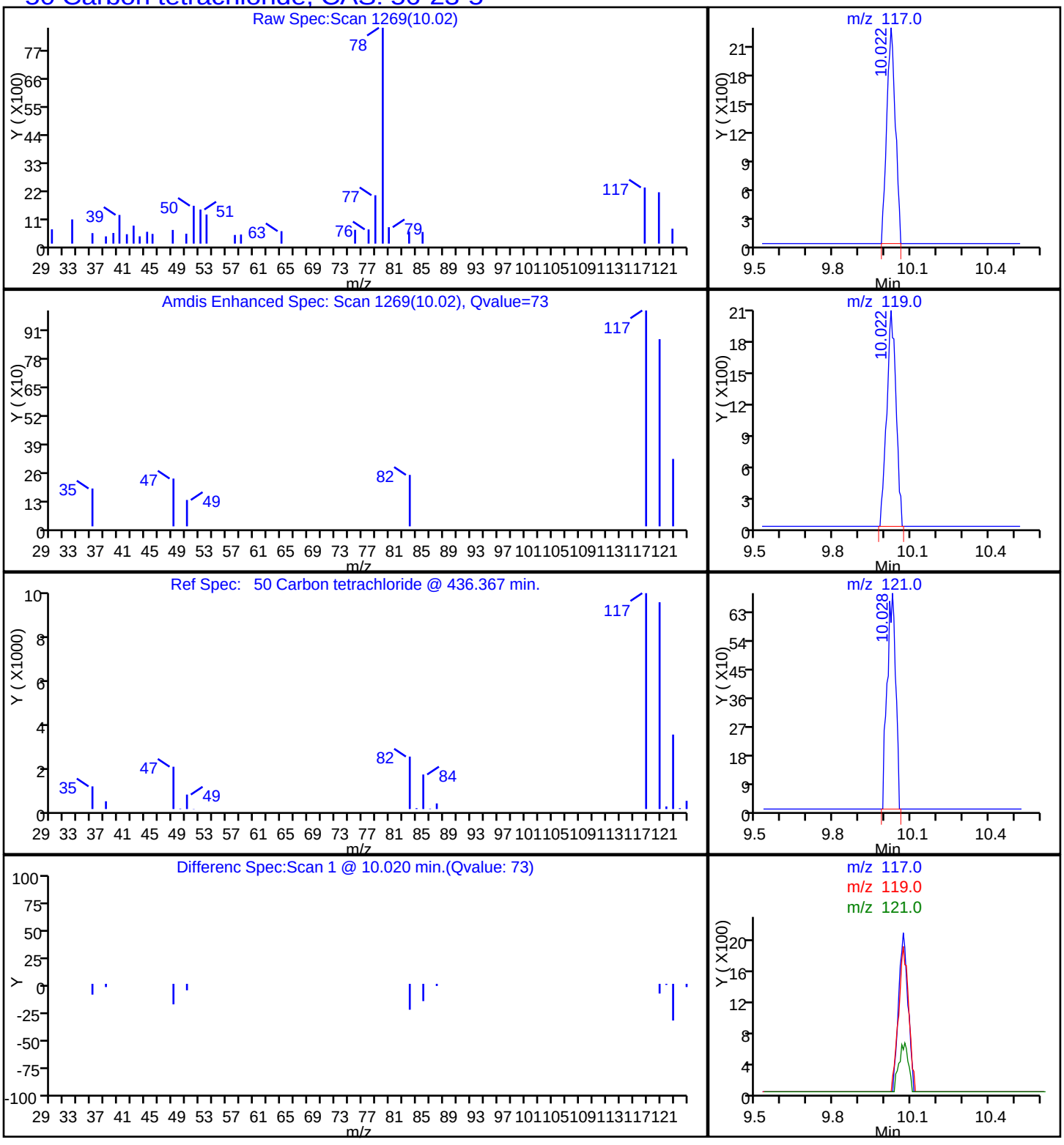
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date: 14-Mar-2014 18:42:30 Instrument ID: ME

Lims ID: 140-1041-A-6 Lab Sample ID: 140-1041-6

Client ID: PCV-IA2-B13

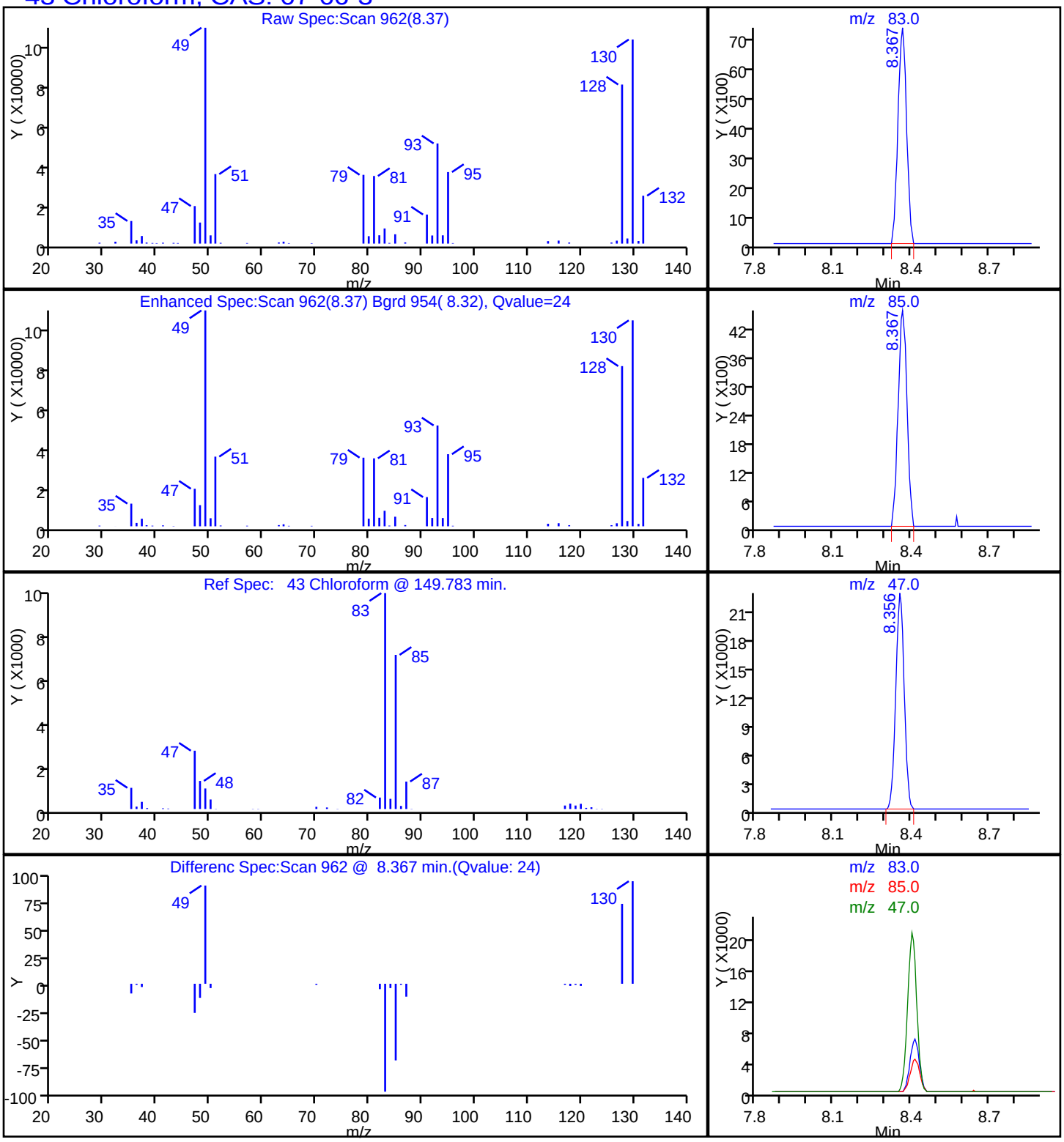
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



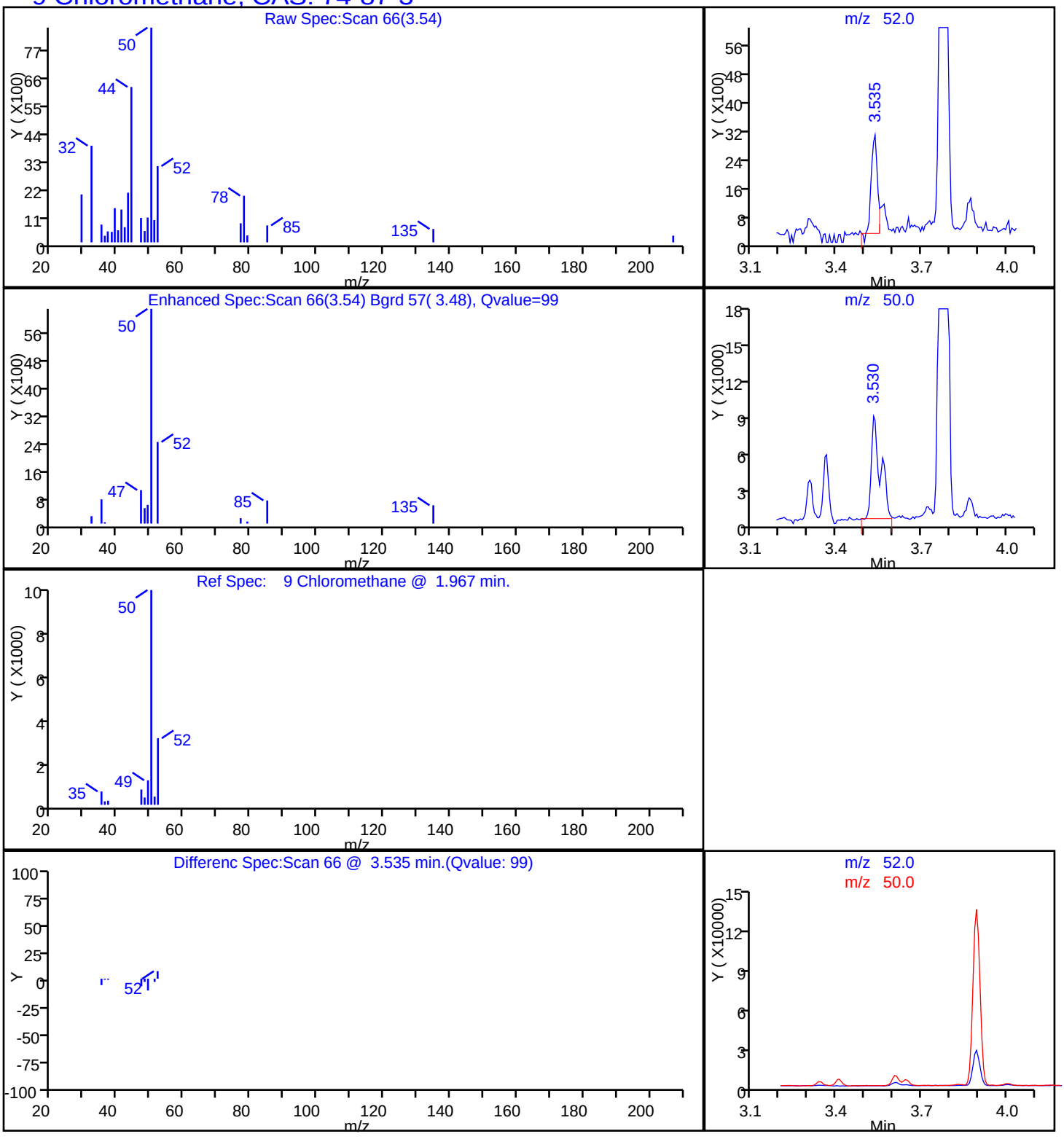
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



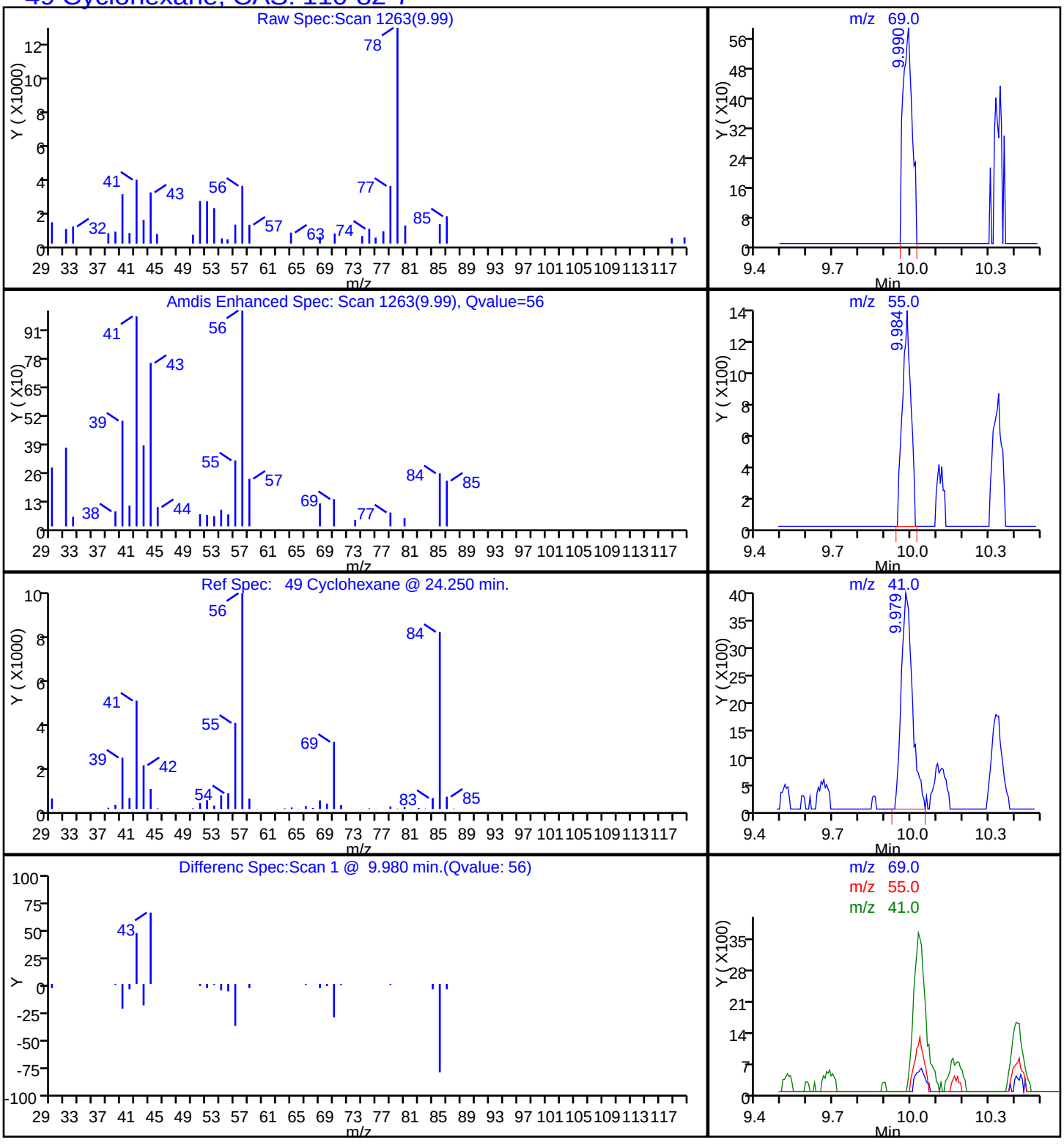
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

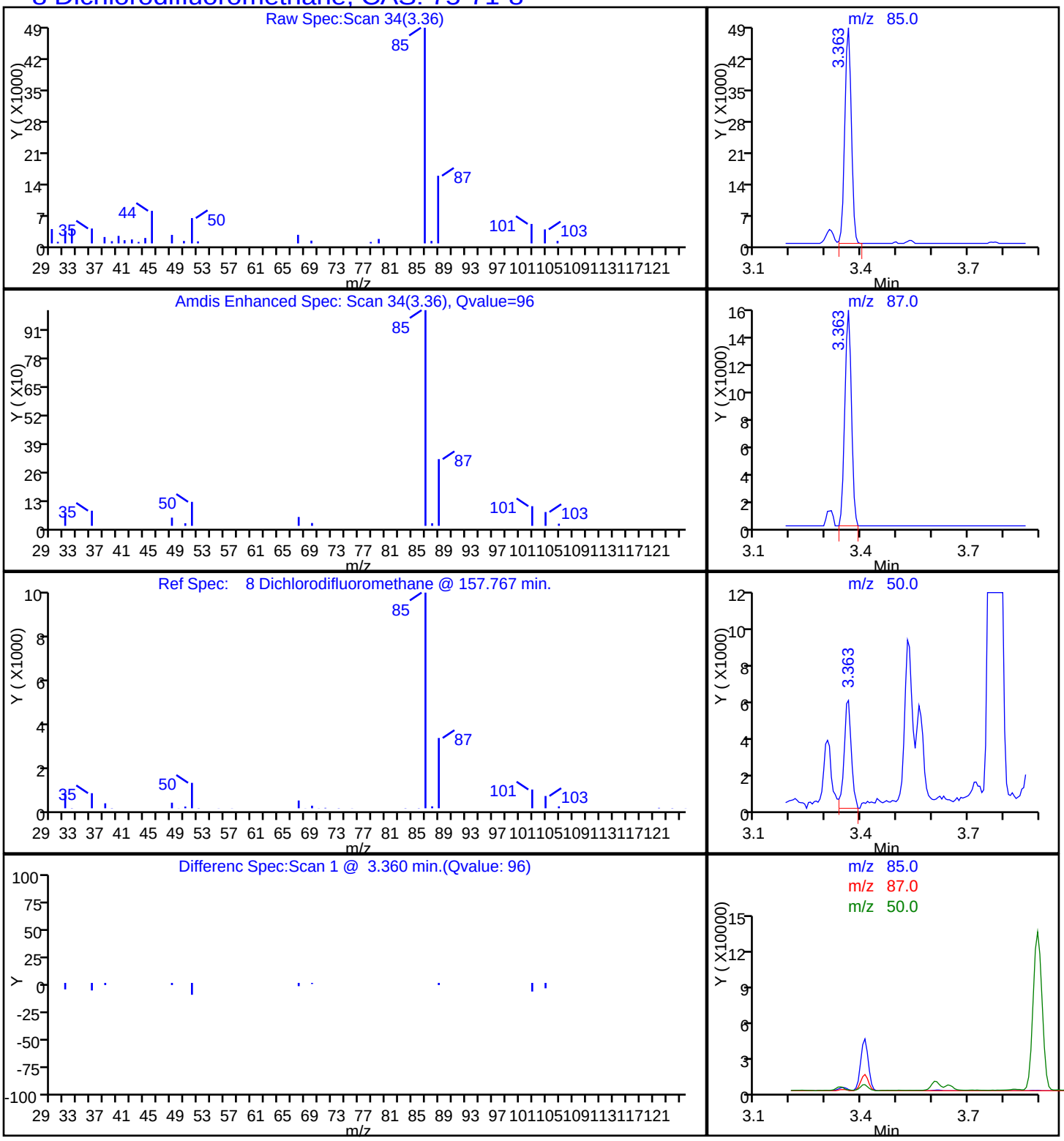
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

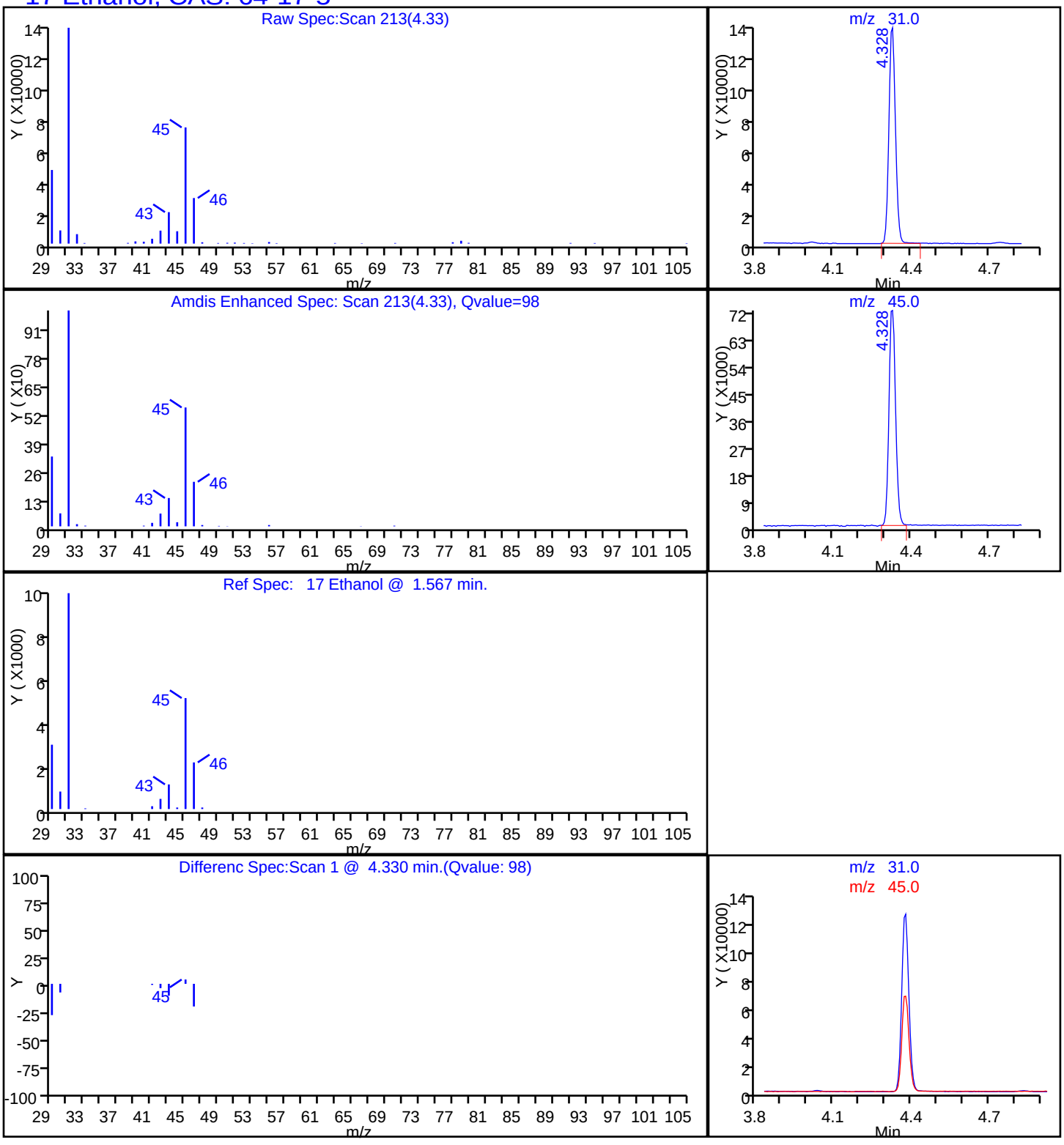


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D		
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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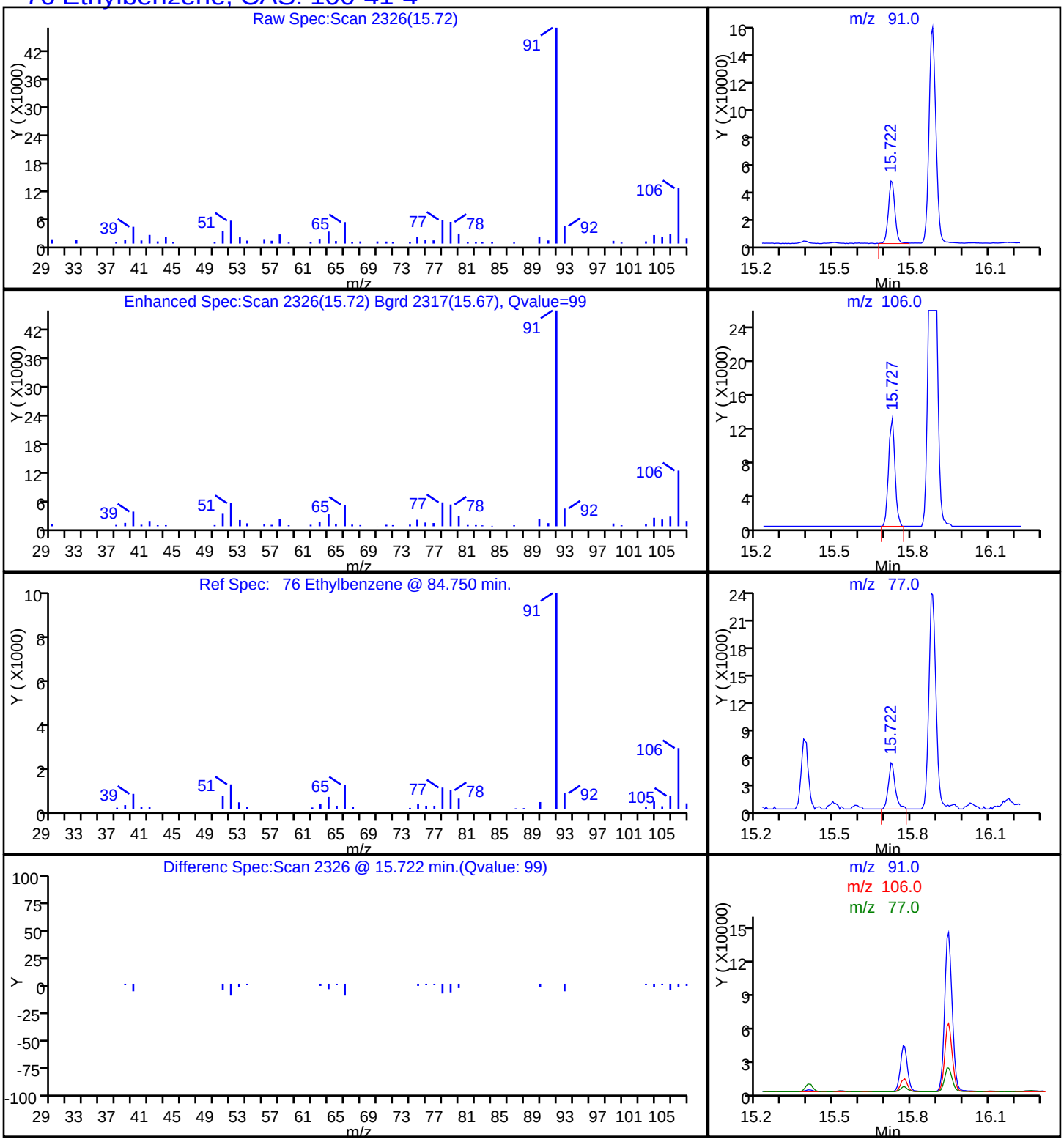
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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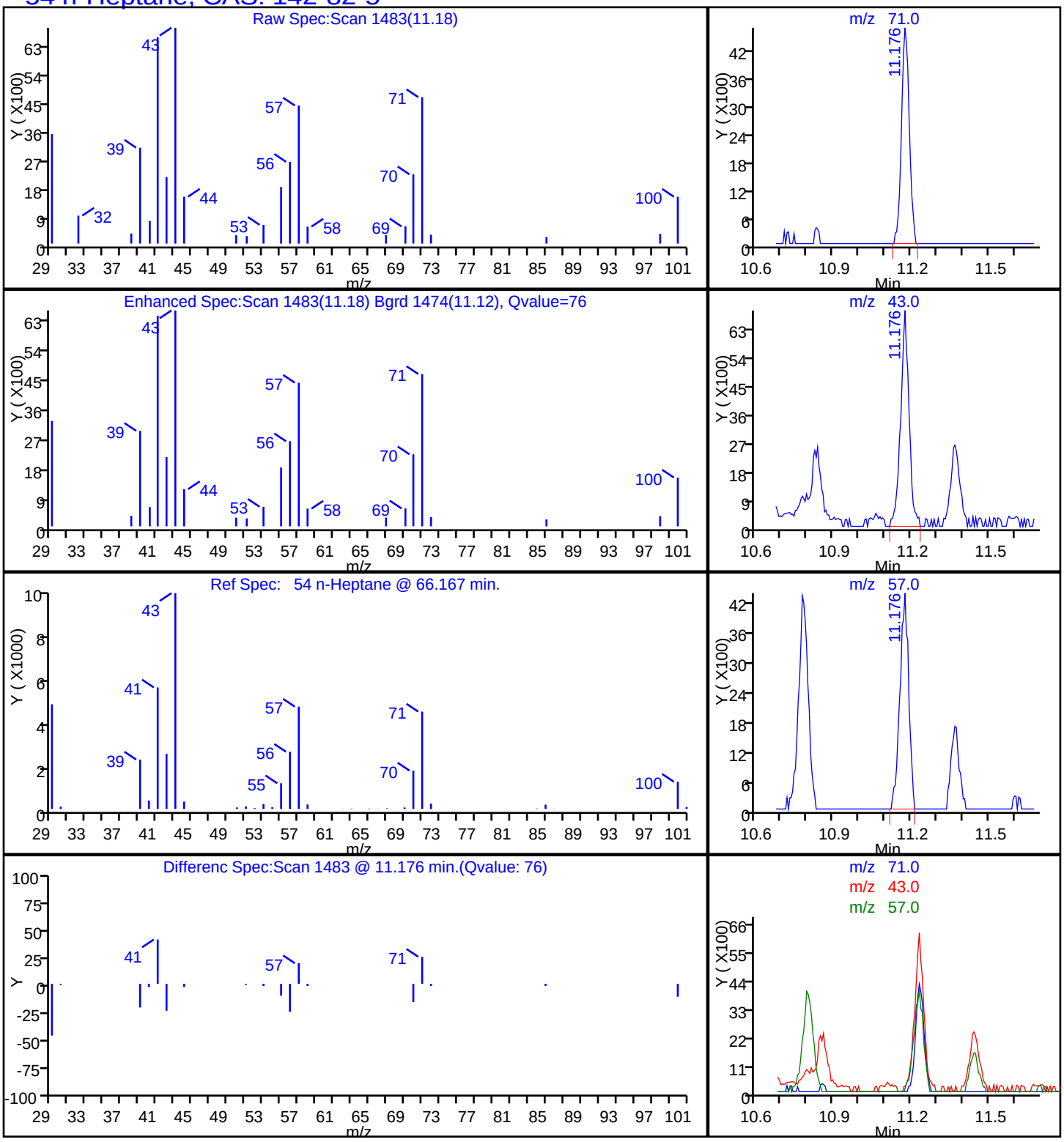
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D		
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



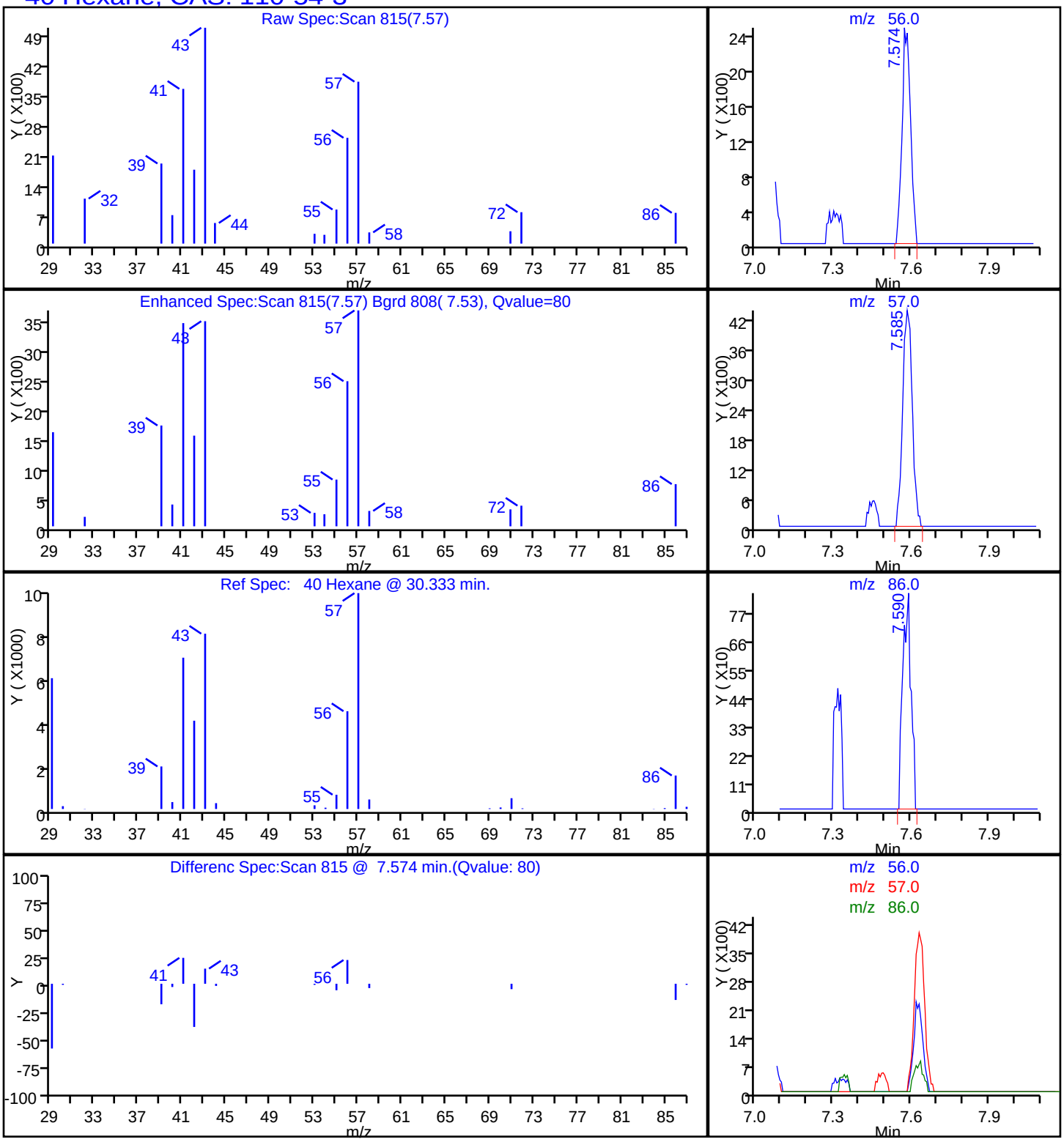
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3

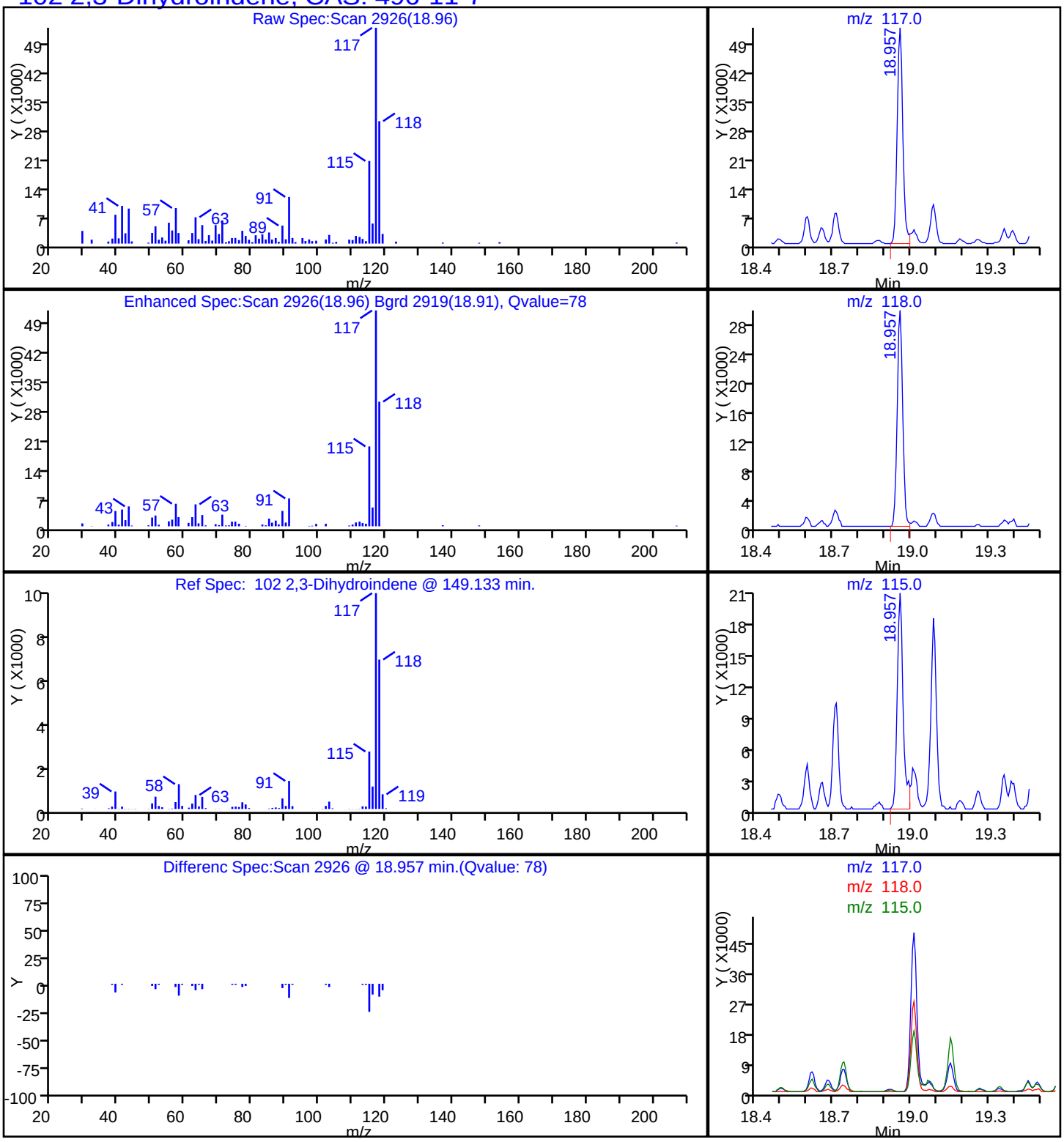


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

102 2,3-Dihydroindene, CAS: 496-11-7



Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date: 14-Mar-2014 18:42:30 Instrument ID: ME

Lims ID: 140-1041-A-6 Lab Sample ID: 140-1041-6

Client ID: PCV-IA2-B13

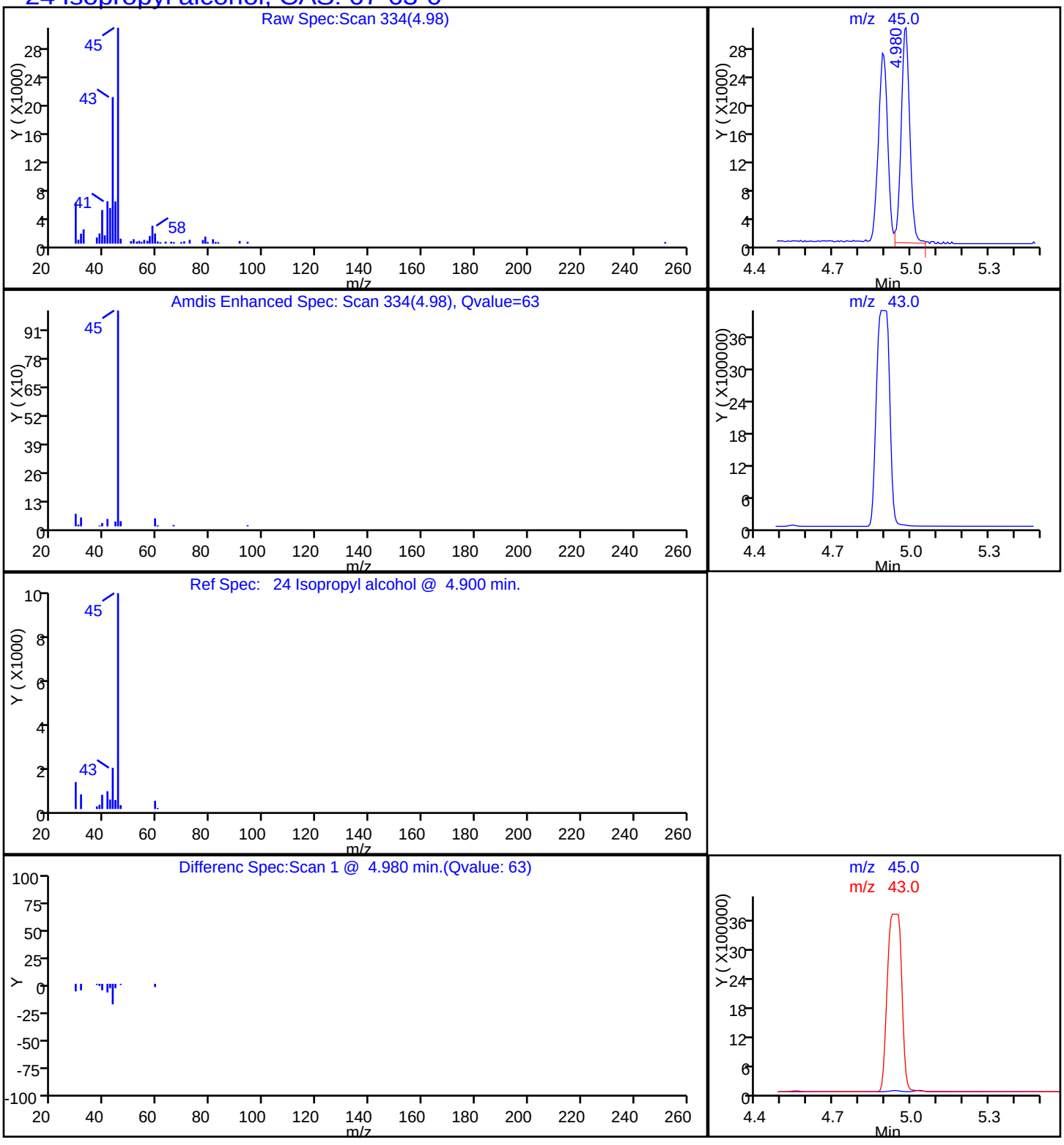
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



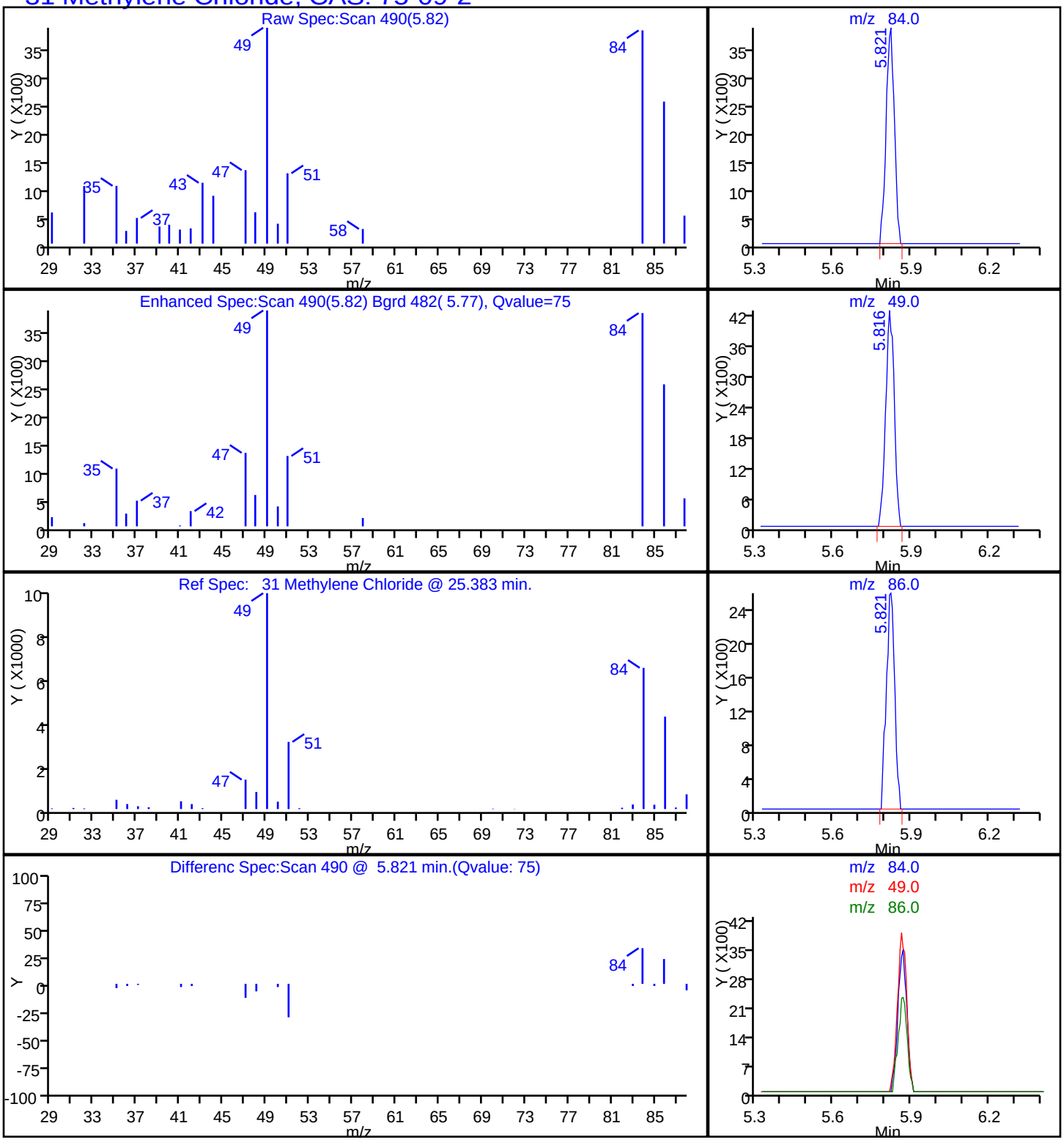
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

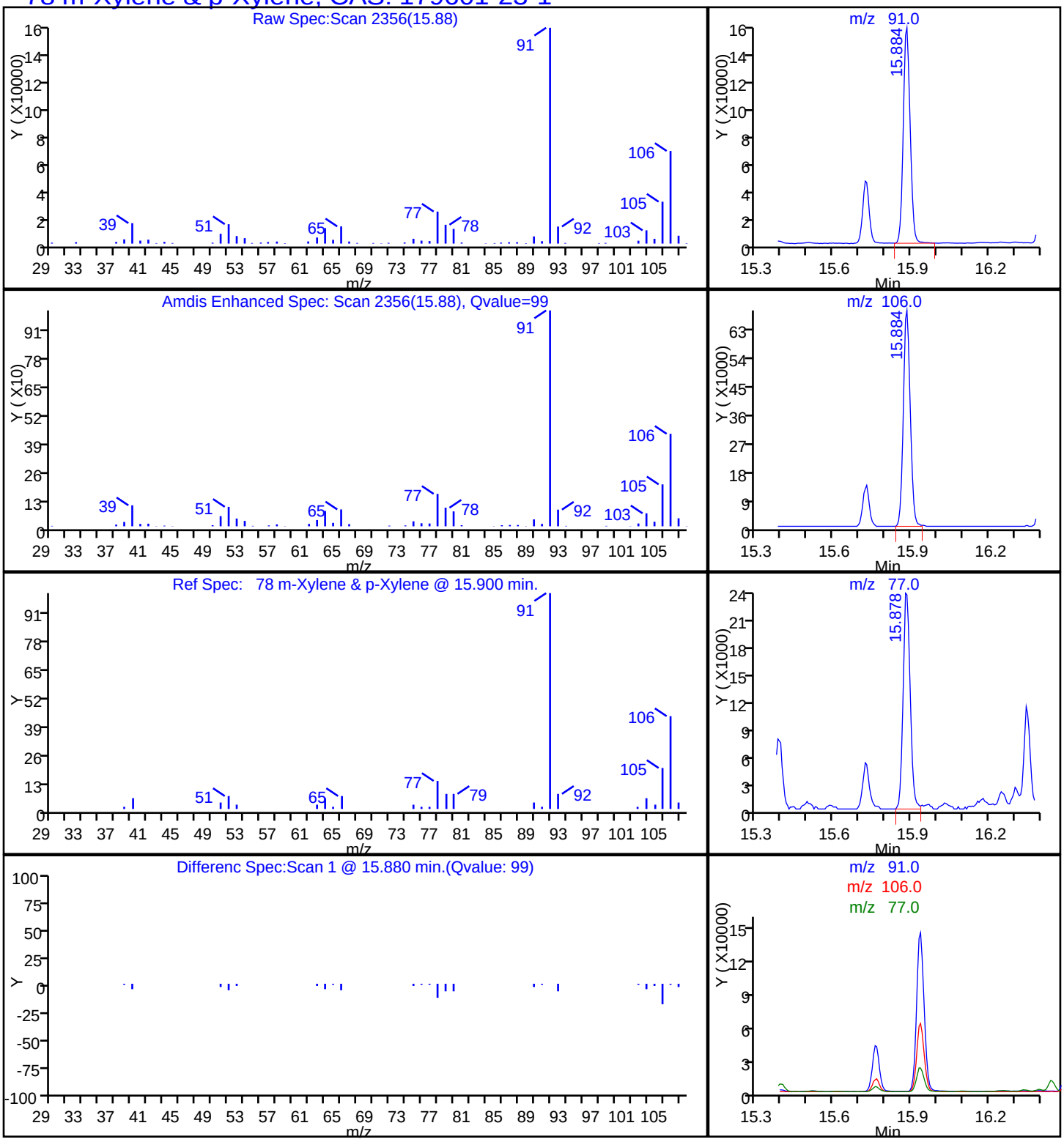


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



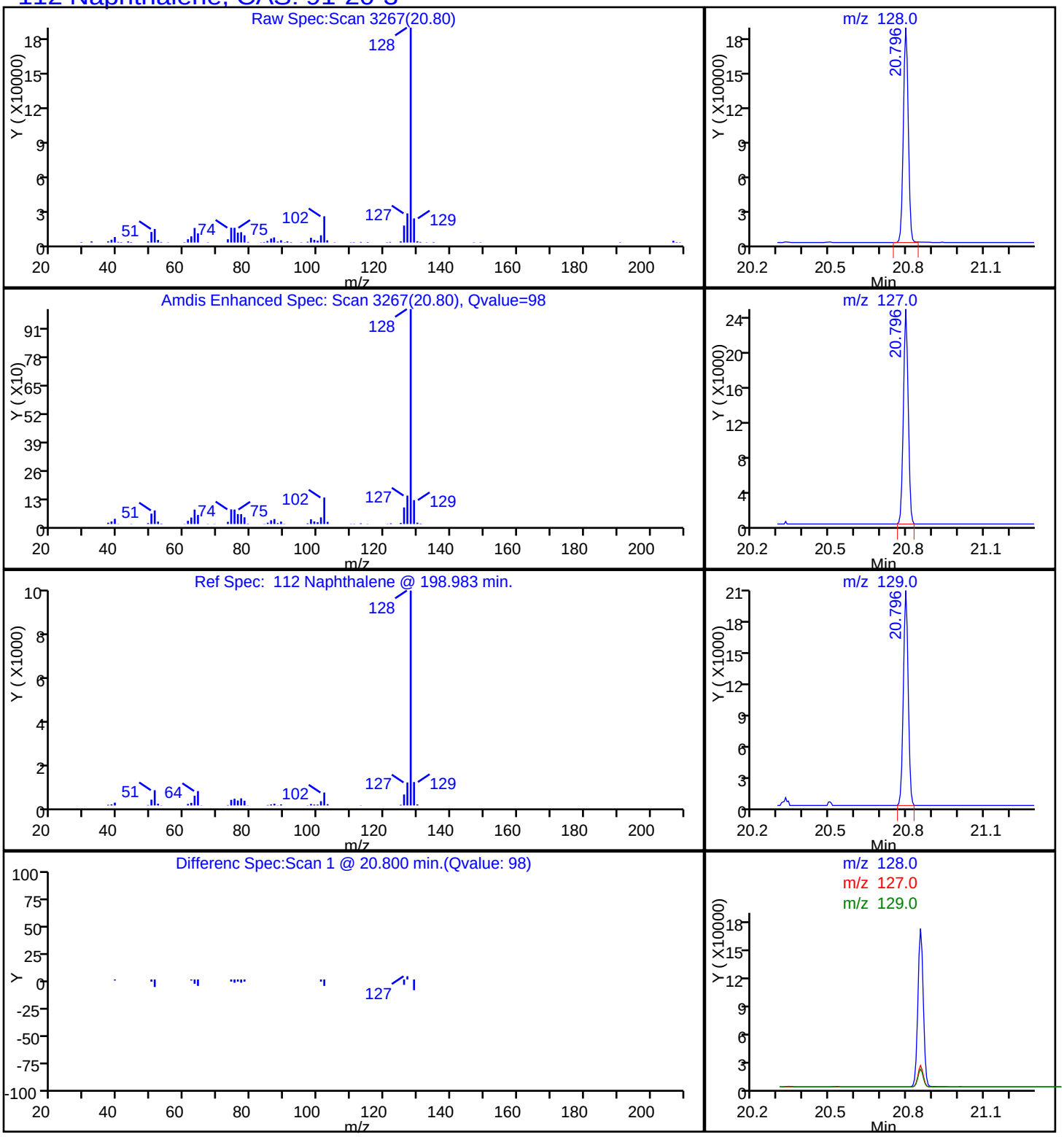
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

112 Naphthalene, CAS: 91-20-3

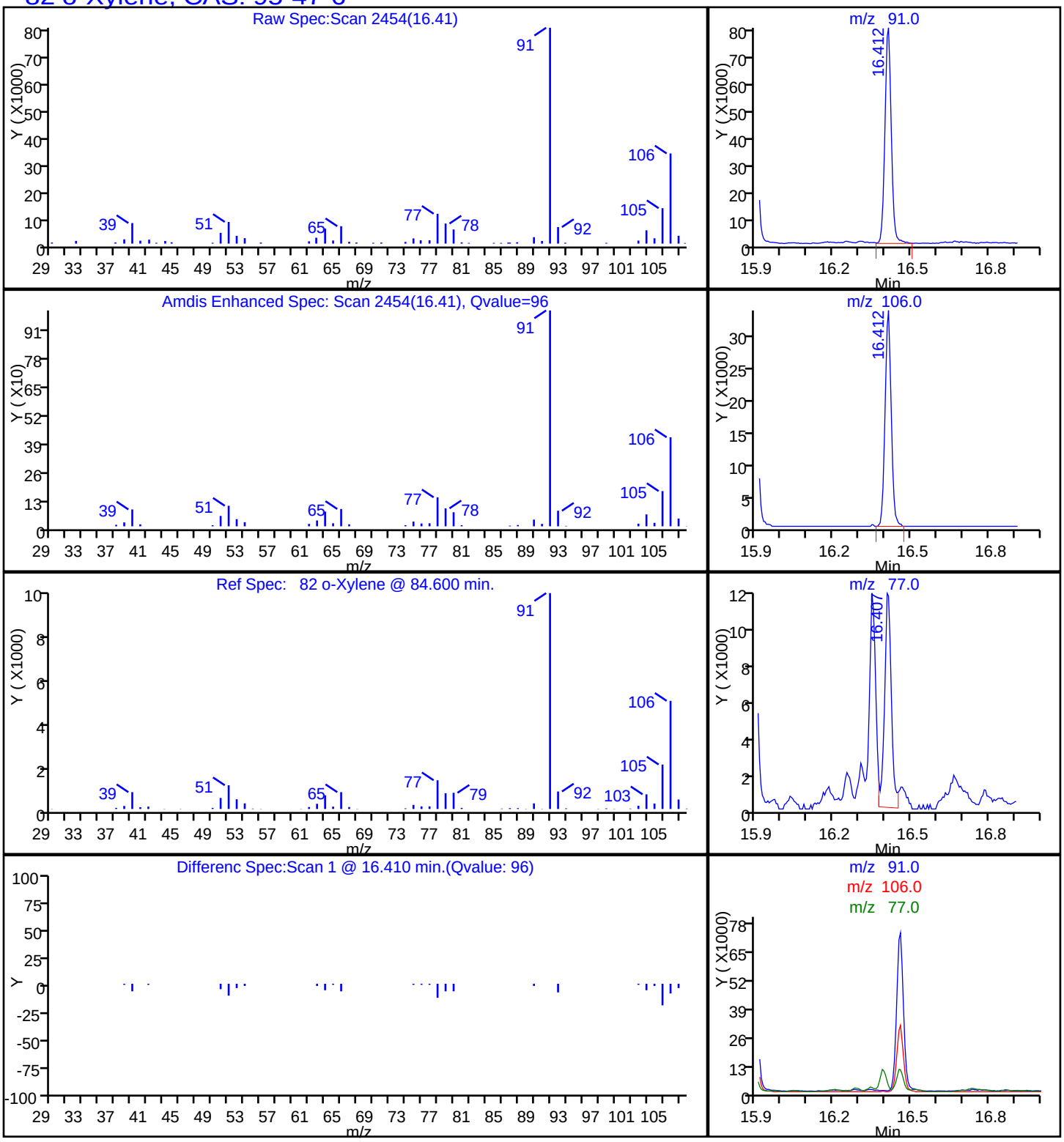


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



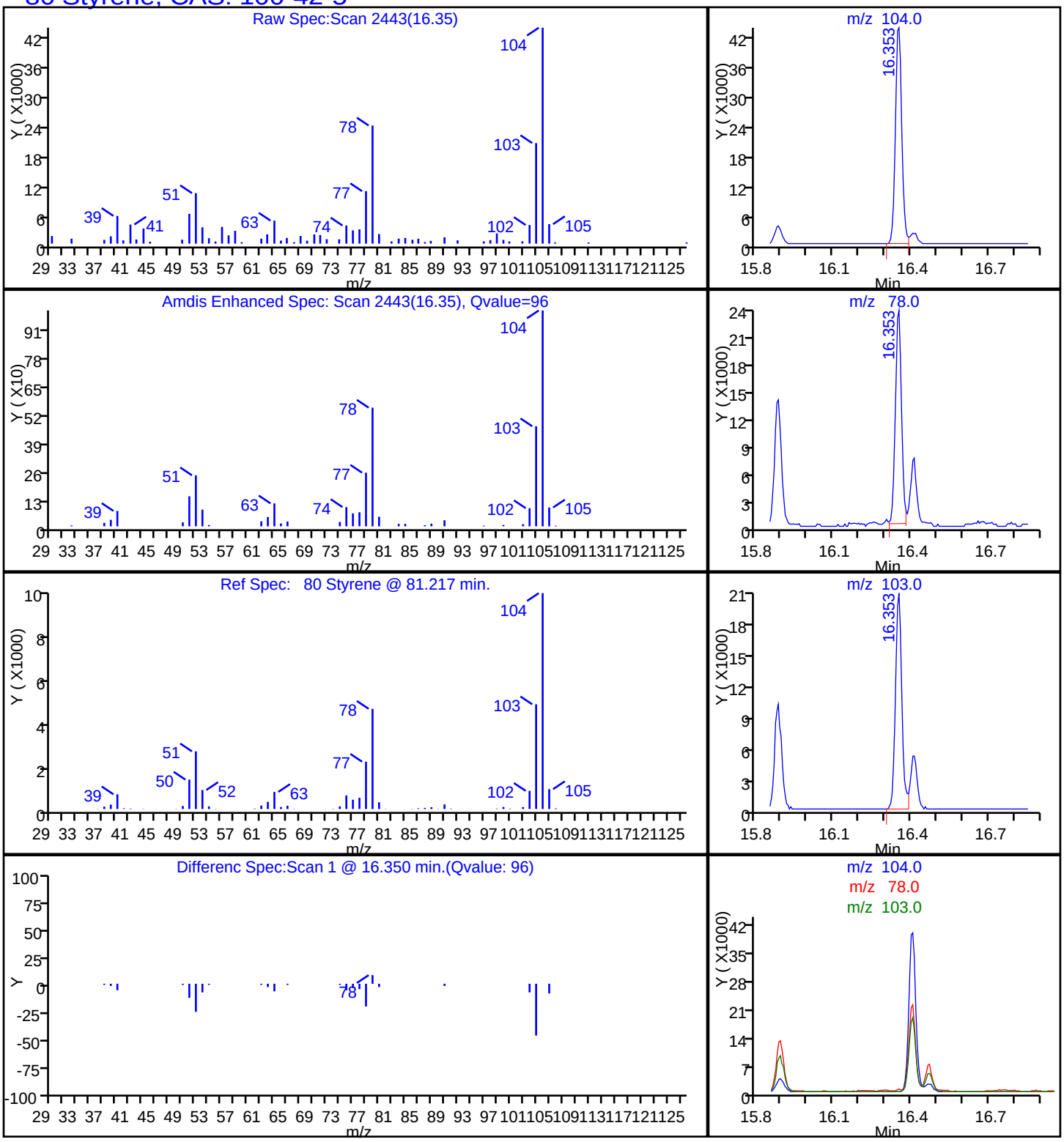
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



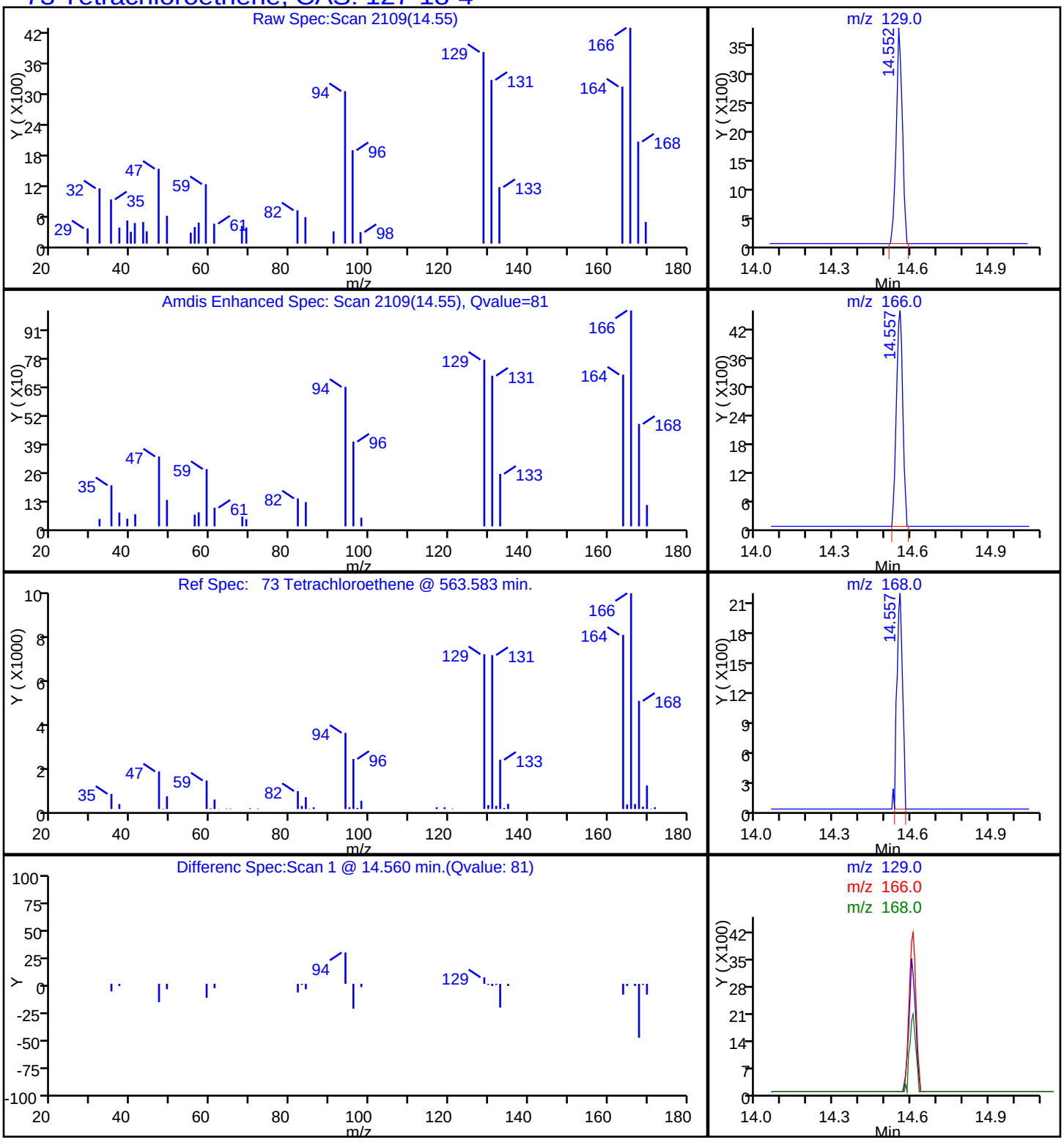
Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D

Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6
Client ID:	PCV-IA2-B13		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

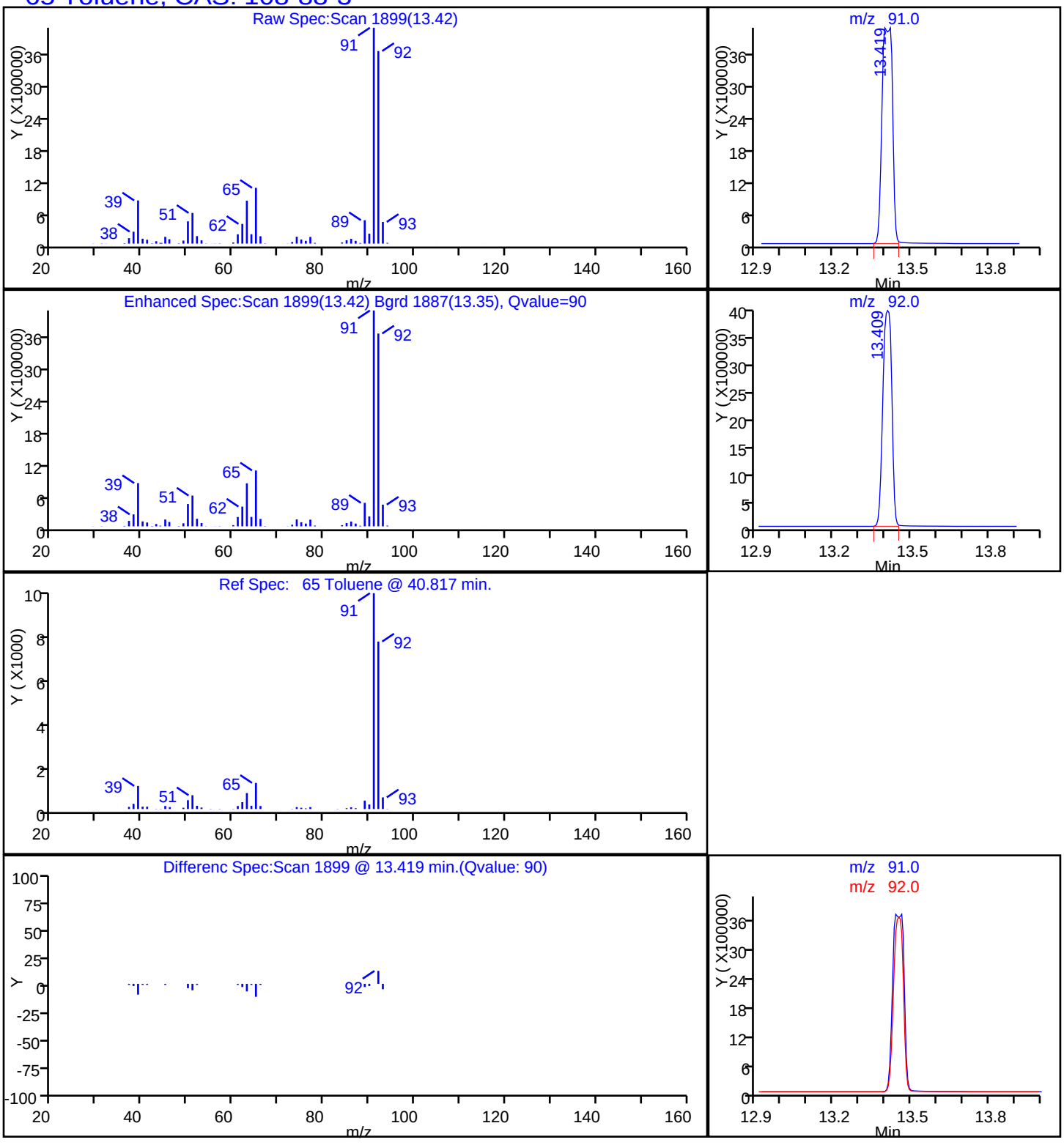


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

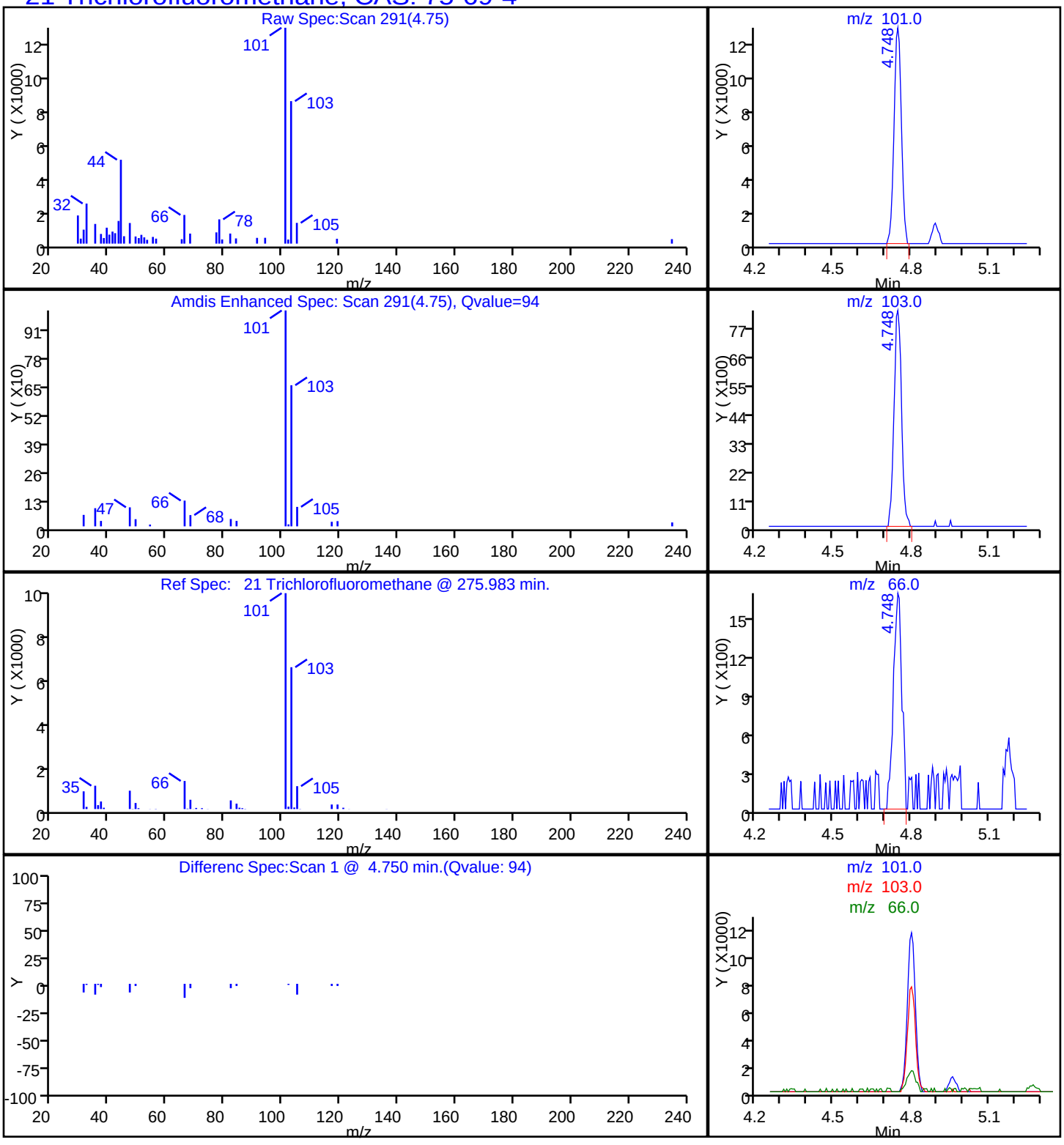


Report Date: 17-Mar-2014 16:27:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

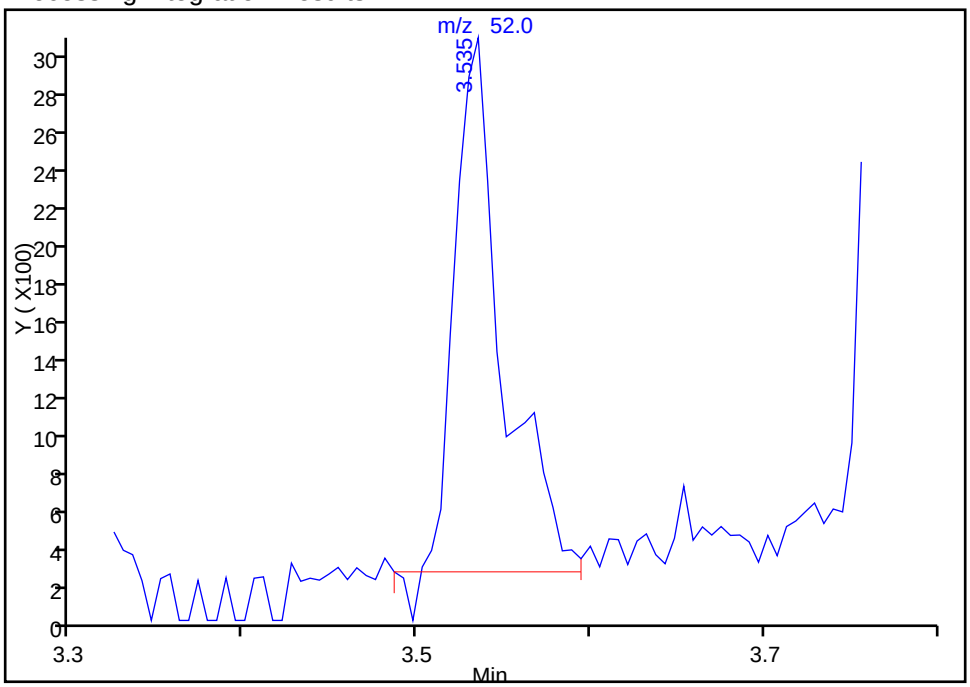
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106.D				
Injection Date:	14-Mar-2014 18:42:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

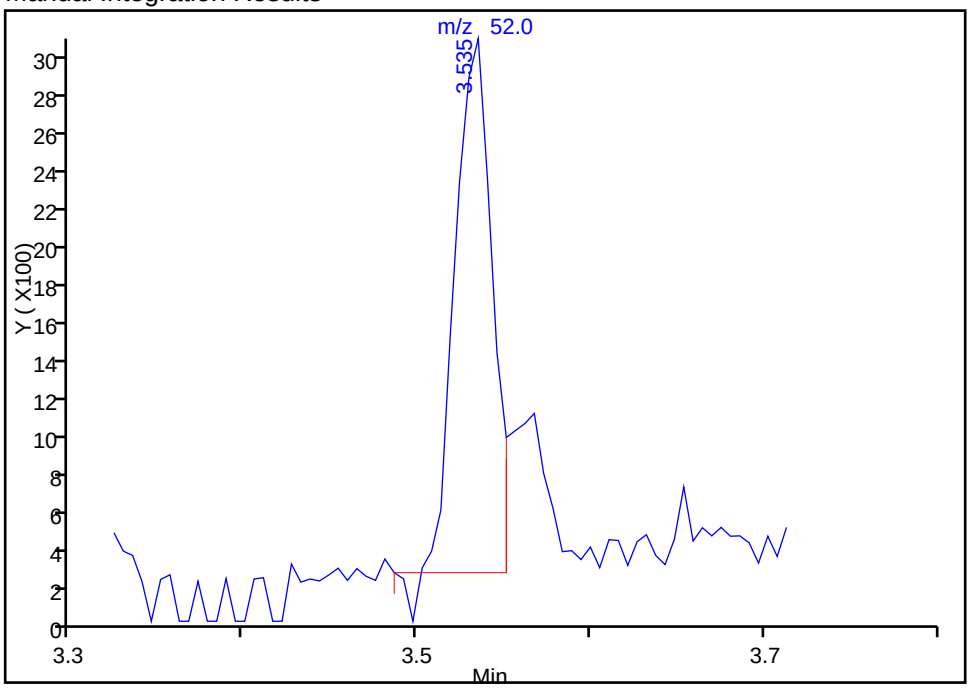
Processing Integration Results

RT: 3.54
Response: 5219
Amount: 0.289872



Manual Integration Results

RT: 3.54
Response: 4094
Amount: 0.227388



Reviewer: barlozhetskayaa, 17-Mar-2014 16:27:29
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 DL Lab Sample ID: 140-1041-6 DL

Matrix: Air Lab File ID: EC14P106RR.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 11(mL) Date Analyzed: 03/14/2014 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	370		91	25
108-88-3	Toluene	92.14	110		3.6	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B13 DL Lab Sample ID: 140-1041-6 DL

Matrix: Air Lab File ID: EC14P106RR.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:10

Sample wt/vol: 11(mL) Date Analyzed: 03/14/2014 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	880		220	60
108-88-3	Toluene	92.14	420		14	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106RR.D
Lims ID: 140-1041-A-6 Lab Sample ID: 140-1041-6
Client ID: PCV-IA2-B13
Sample Type: Client
Inject. Date: 14-Mar-2014 20:43:30 ALS Bottle#: 6 Worklist Smp#: 30
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-6
Misc. Info.: E031414,TO155,,140-0000522-030
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:39:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:48:18

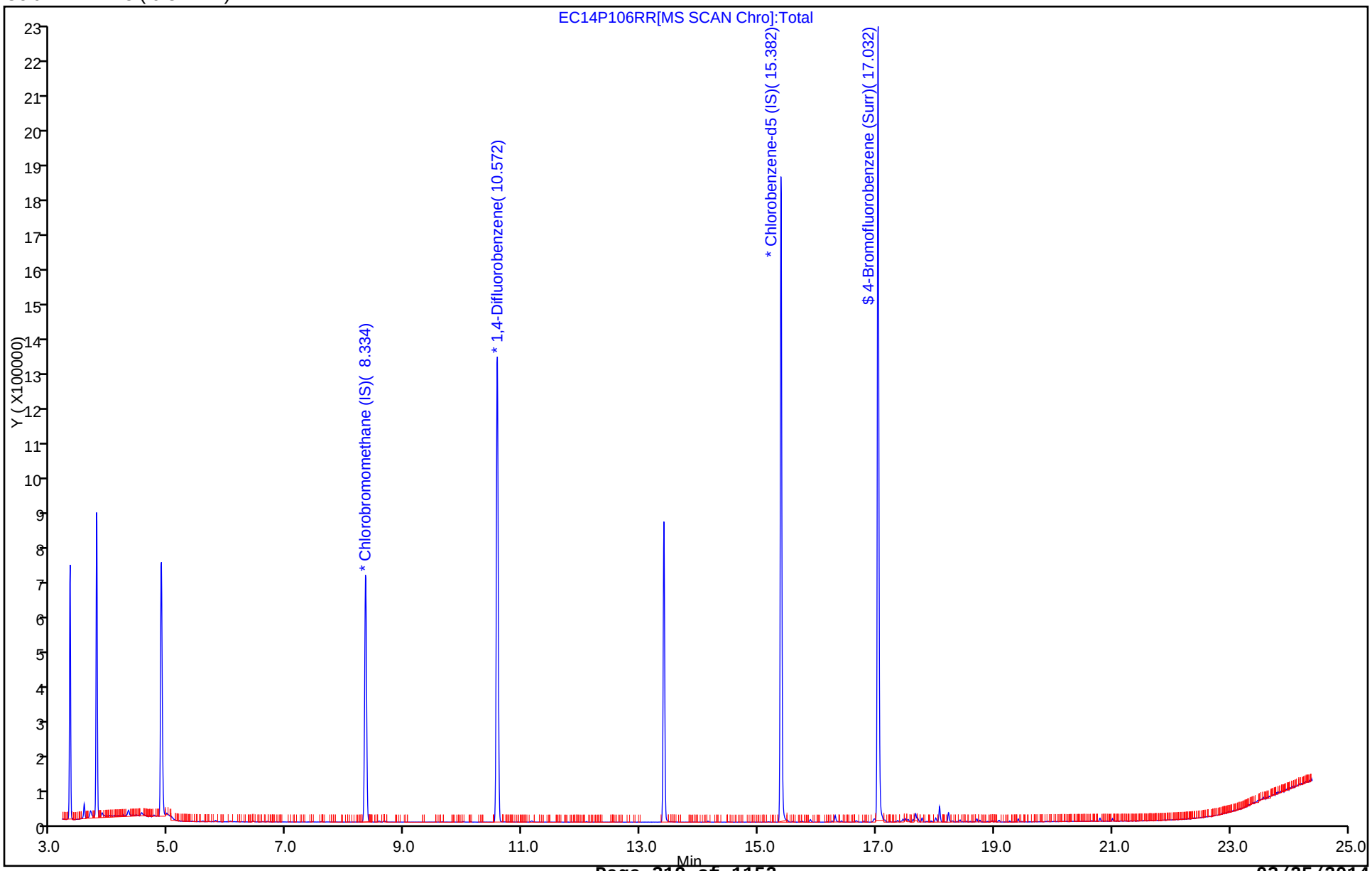
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	79	206756	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1061687	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	918915	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	785500	3.90	
19 2-Methylbutane	43	4.543	4.538	0.005	68	2192	0.0303	
23 Acetone	58	4.872	4.883	-0.011	99	256073	8.18	
24 Isopropyl alcohol	45	4.975	4.975	0.0	37	4466	0.0554	
65 Toluene	91	13.398	13.403	-0.005	93	600980	2.44	
88 4-Ethyltoluene	105	17.701	17.701	0.0	69	10255	0.0302	
93 1,2,4-Trimethylbenzene	105	18.229	18.224	0.005	86	15284	0.0542	

Report Date: 17-Mar-2014 16:48:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106RR.D				
Injection Date:	14-Mar-2014 20:43:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6	Worklist Smp#:	30
Client ID:	PCV-IA2-B13				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



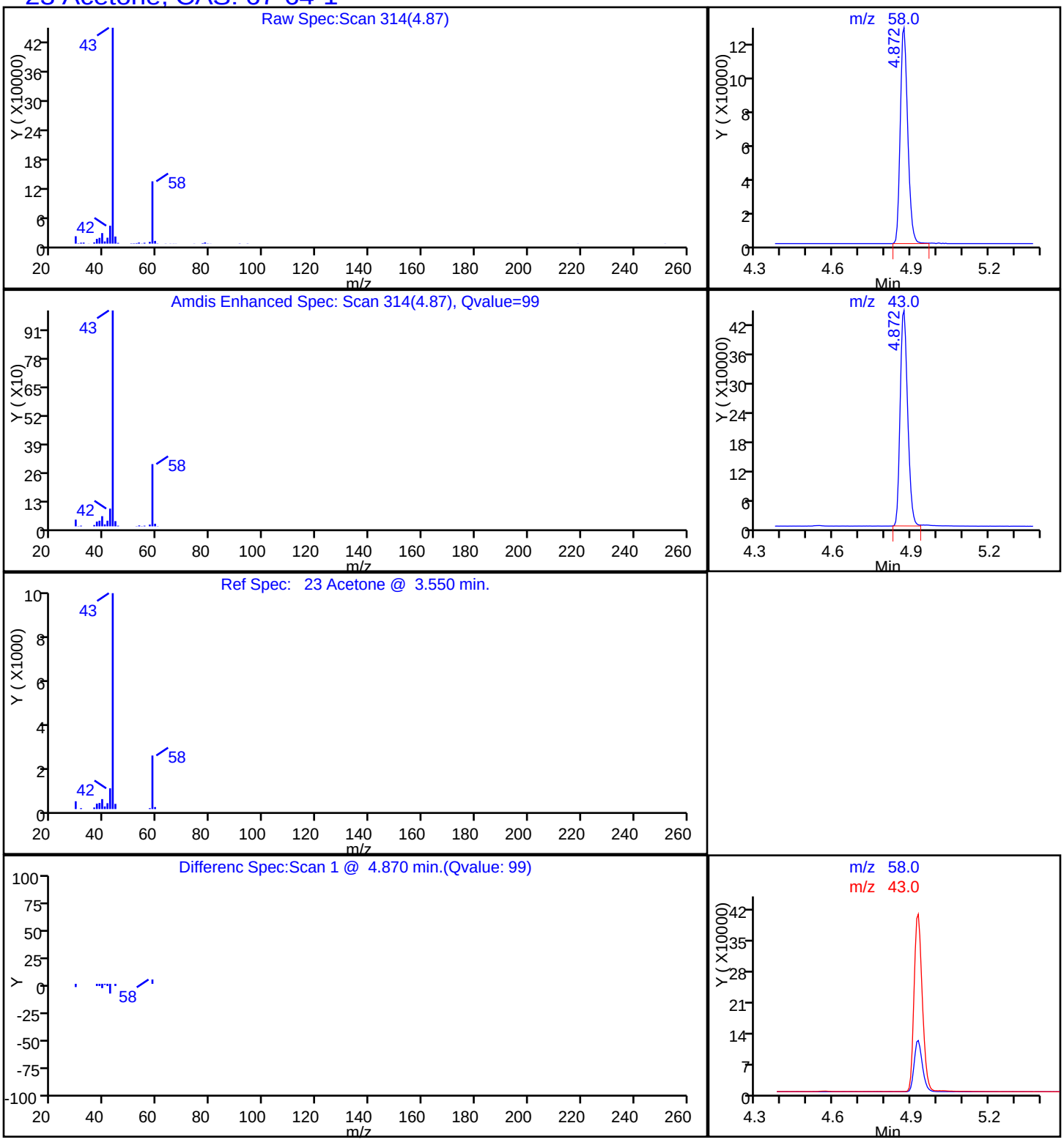
Report Date: 17-Mar-2014 16:48:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106RR.D

Injection Date:	14-Mar-2014 20:43:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	30
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



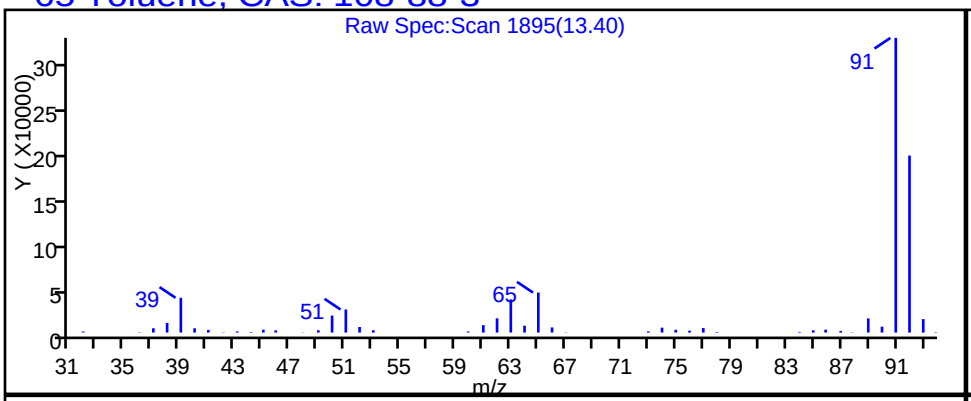
Report Date: 17-Mar-2014 16:48:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

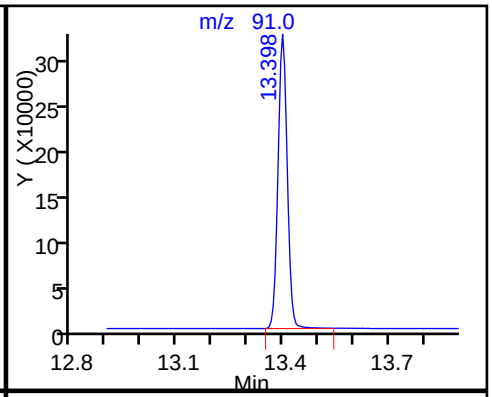
TestAmerica Knoxville

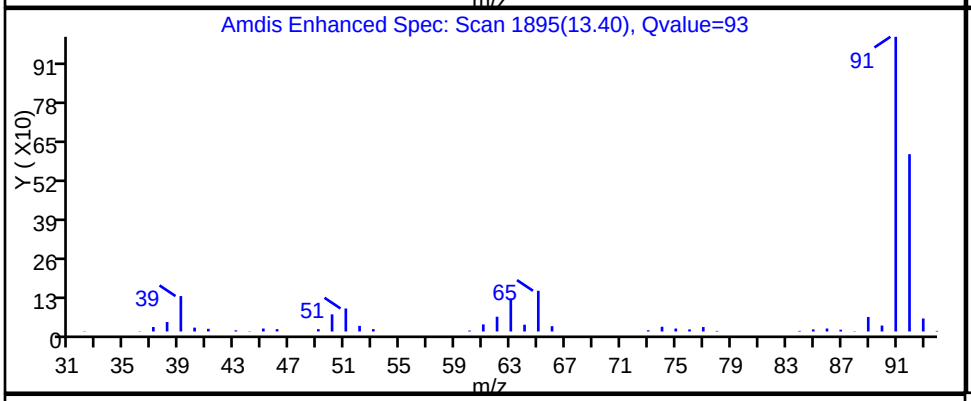
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P106RR.D

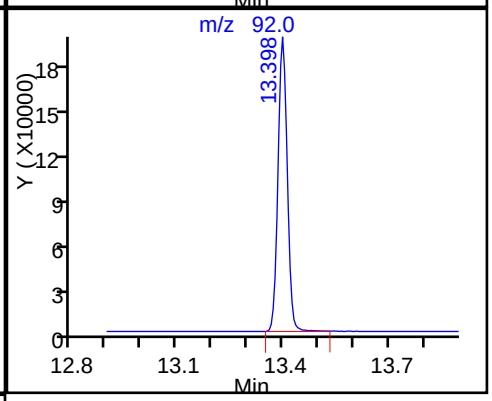
Injection Date:	14-Mar-2014 20:43:30	Instrument ID:	ME		
Lims ID:	140-1041-A-6	Lab Sample ID:	140-1041-6		
Client ID:	PCV-IA2-B13				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	30
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

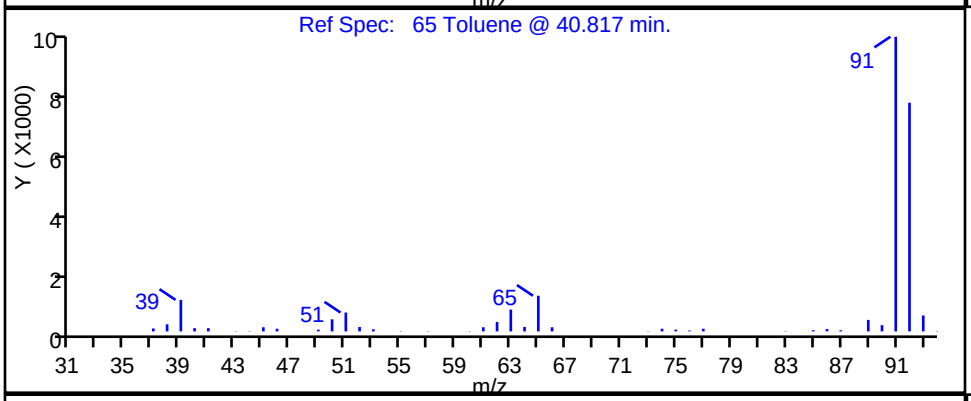
65 Toluene, CAS: 108-88-3

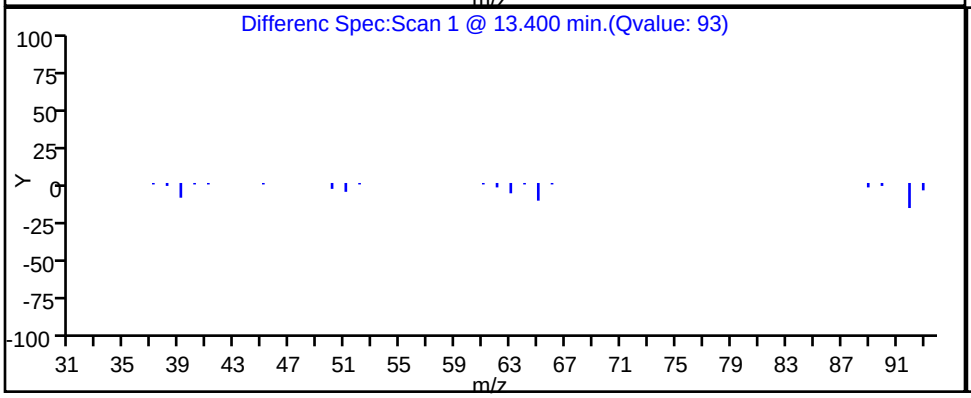


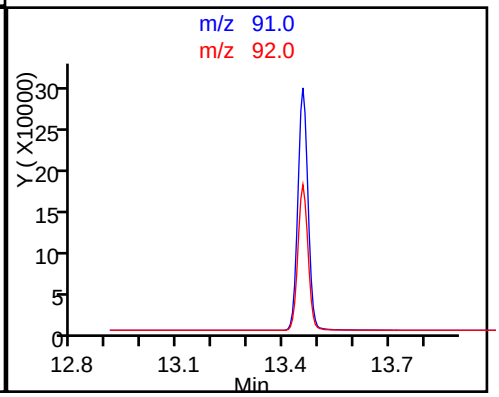












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.63		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.081	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.37	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.68		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.54		0.50	0.045
67-64-1	*Acetone*	*58.08*	*170*	*E*	*5.0*	*1.4*
71-43-2	Benzene	78.11	0.34		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.058	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.18	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.075	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.48		0.20	0.068
64-17-5	Ethanol	46.07	28		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.22		0.20	0.068
142-82-5	Heptane	100.21	0.17	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.25	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.5	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.96		0.20	0.12
91-20-3	Naphthalene	128.17	0.70		0.50	0.090
95-47-6	o-Xylene	106.17	0.40		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	0.25		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.11	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	*Toluene*	*92.14*	*55*	*E*	*0.20*	*0.12*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	8.4		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	3.1		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.38	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	3.4		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.2		2.0	0.18
67-64-1	*Acetone*	*58.08*	*400*	*E*	*12*	*3.3*
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.36	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.86	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.26	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	53		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.97		0.87	0.30
142-82-5	Heptane	100.21	0.68	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.87	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.7	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	4.2		0.87	0.52
91-20-3	Naphthalene	128.17	3.7		2.6	0.47
95-47-6	o-Xylene	106.17	1.7		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	1.1		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.77	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	*Toluene*	*92.14*	*210*	*E*	*0.75*	*0.45*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 Lab Sample ID: 140-1041-7

Matrix: Air Lab File ID: EC14P107.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:14

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D
Lims ID: 140-1041-A-7 Lab Sample ID: 140-1041-7
Client ID: PCV-IA3-B13
Sample Type: Client
Inject. Date: 14-Mar-2014 21:28:30 ALS Bottle#: 7 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-7
Misc. Info.: E031414,TO155,,140-0000522-012
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:29:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:29:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	79	221794	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1125143	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	1005196	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	933743	4.24	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	96	47102	0.1920	
9 Chloromethane	52	3.530	3.530	0.0	99	4548	0.2322	M
17 Ethanol	31	4.312	4.317	-0.005	98	249544	11.2	
19 2-Methylbutane	43	4.538	4.538	0.0	86	36818	0.4740	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	26292	0.1068	
23 Acetone	58	4.878	4.883	-0.005	97	2248553	66.9	E
24 Isopropyl alcohol	45	4.969	4.975	-0.006	90	52144	0.6029	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	62	4256	0.0279	
31 Methylene Chloride	84	5.805	5.795	0.010	76	10054	0.1586	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	89	5392	0.1485	
40 Hexane	56	7.585	7.590	-0.005	65	5811	0.0985	
43 Chloroform	83	8.350	8.356	-0.006	23	13379	0.0704	
49 Cyclohexane	69	9.979	9.984	-0.005	52	1276	0.0301	
48 Benzene	78	9.990	9.995	-0.005	95	30753	0.1358	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	68	5038	0.0232	
53 Isooctane	57	10.782	10.788	-0.006	72	11327	0.0324	
54 n-Heptane	71	11.176	11.182	-0.006	68	5661	0.0661	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	91	28616	0.2146	
65 Toluene	91	13.398	13.403	-0.005	95	5925334	22.0	E
73 Tetrachloroethene	129	14.552	14.552	0.0	81	5201	0.0453	
76 Ethylbenzene	91	15.722	15.722	0.0	97	30971	0.0897	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	104453	0.3848	
80 Styrene	104	16.347	16.353	-0.006	84	19131	0.1018	
82 o-Xylene	91	16.407	16.412	-0.005	95	47083	0.1605	
88 4-Ethyltoluene	105	17.695	17.701	-0.006	96	101294	0.2728	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	42715	0.2539	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	97	210118	0.6812	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
112 Naphthalene	128	20.796	20.796	0.0	98	62856	0.2814	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

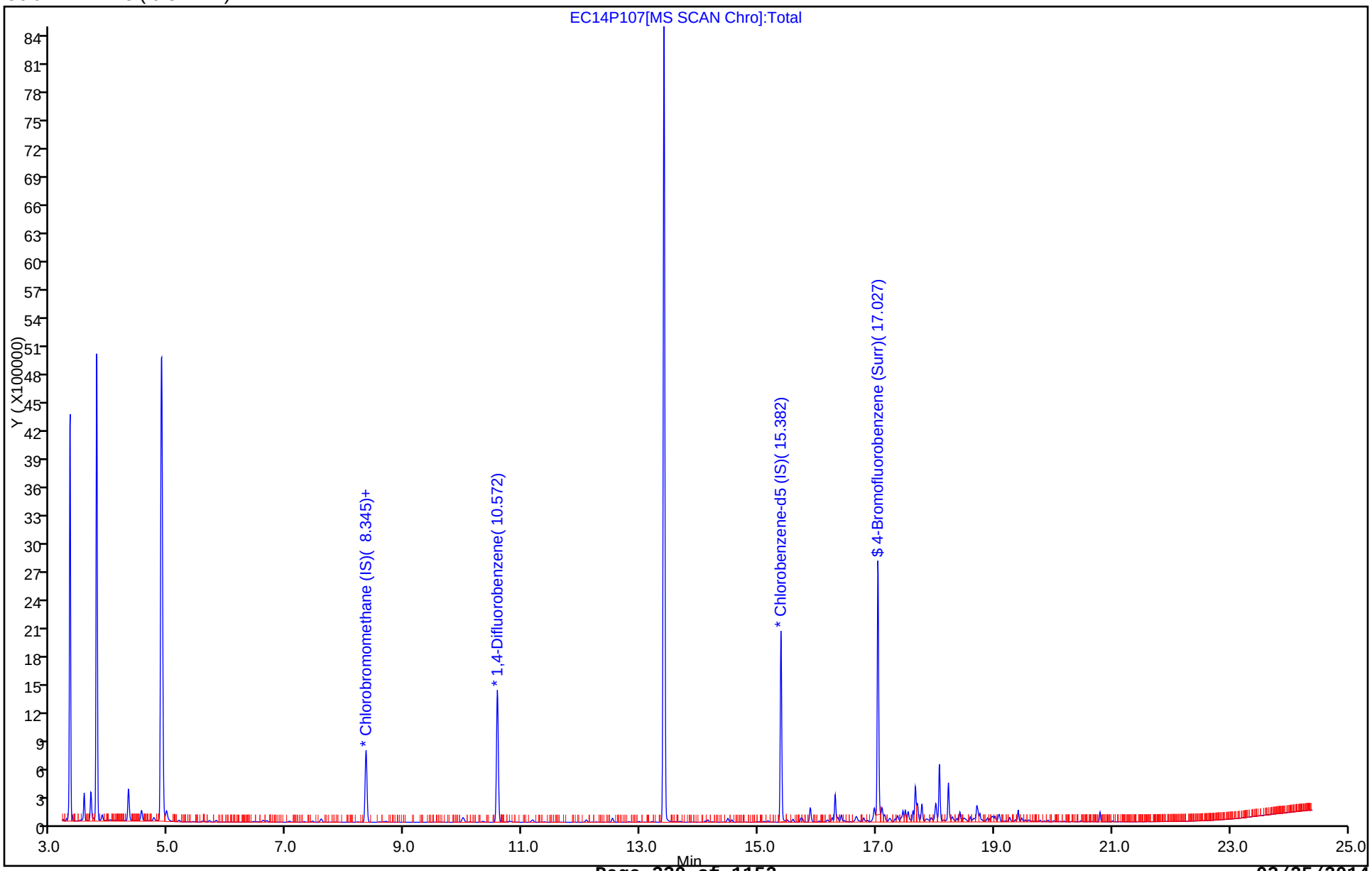
Review Flags
M - Manually Integrated

Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

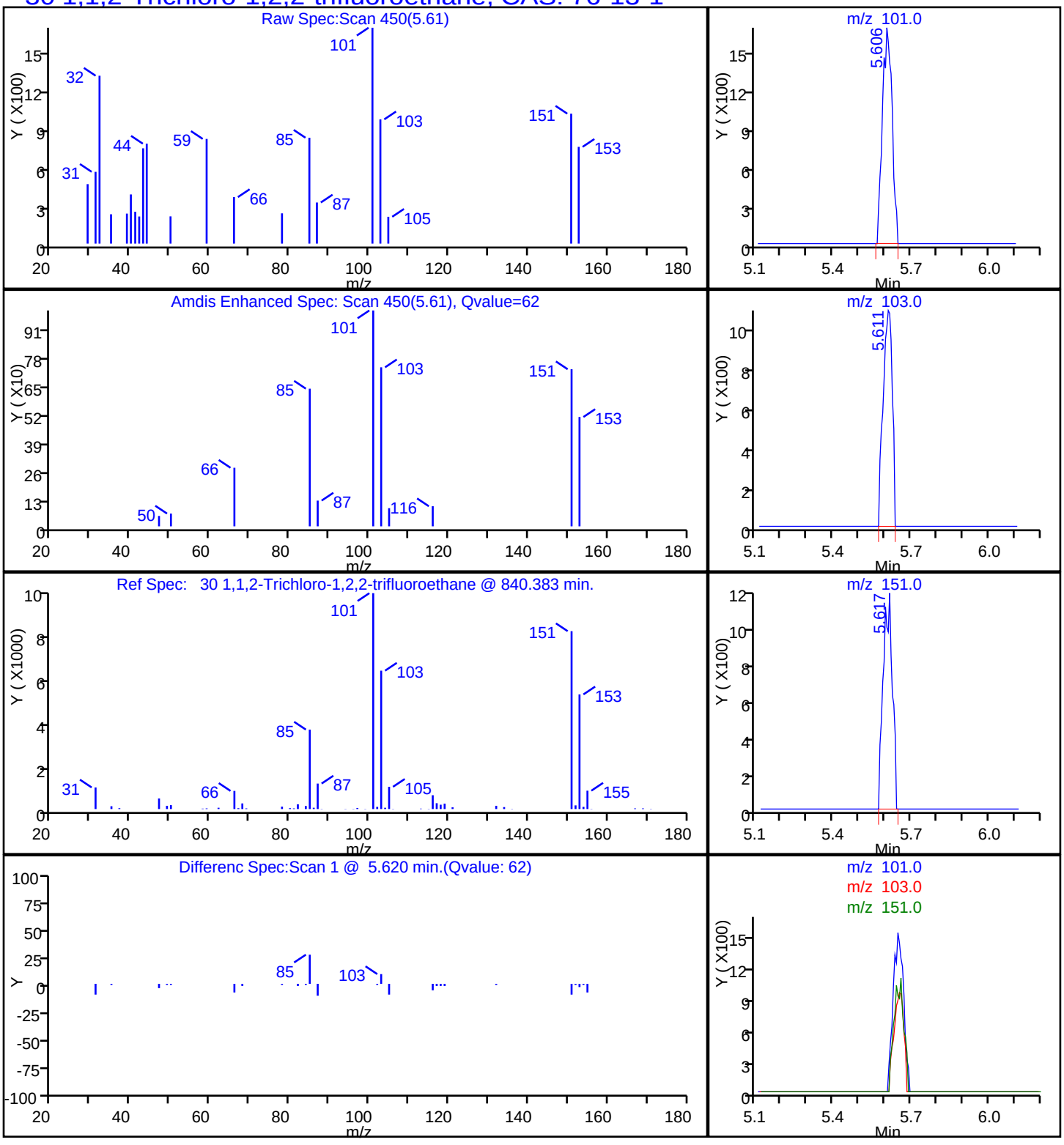
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D				
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7	Worklist Smp#:	12
Client ID:	PCV-IA3-B13				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D
Injection Date: 14-Mar-2014 21:28:30 Instrument ID: ME
Lims ID: 140-1041-A-7 Lab Sample ID: 140-1041-7
Client ID: PCV-IA3-B13
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



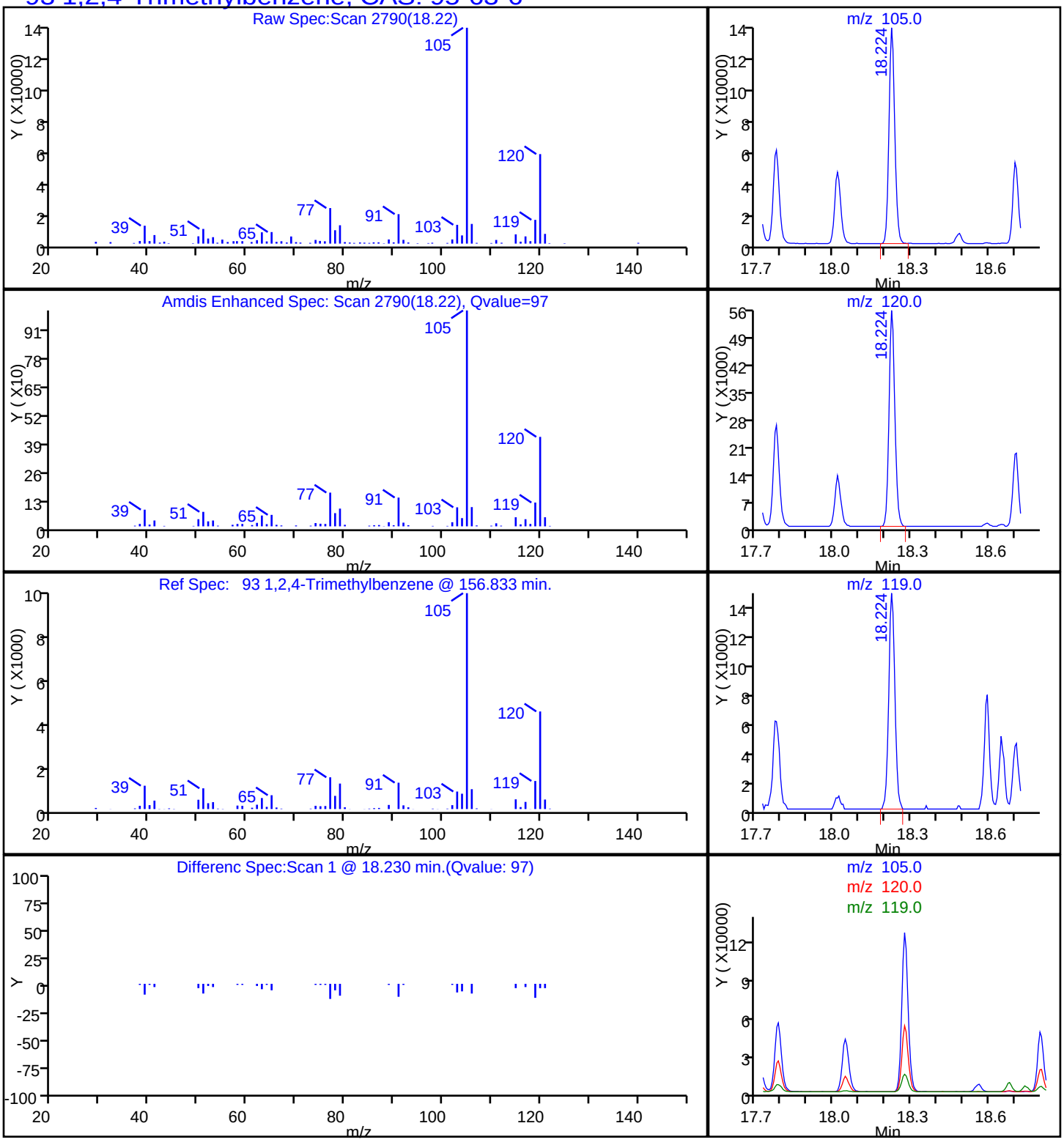
Report Date: 17-Mar-2014 16:29:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

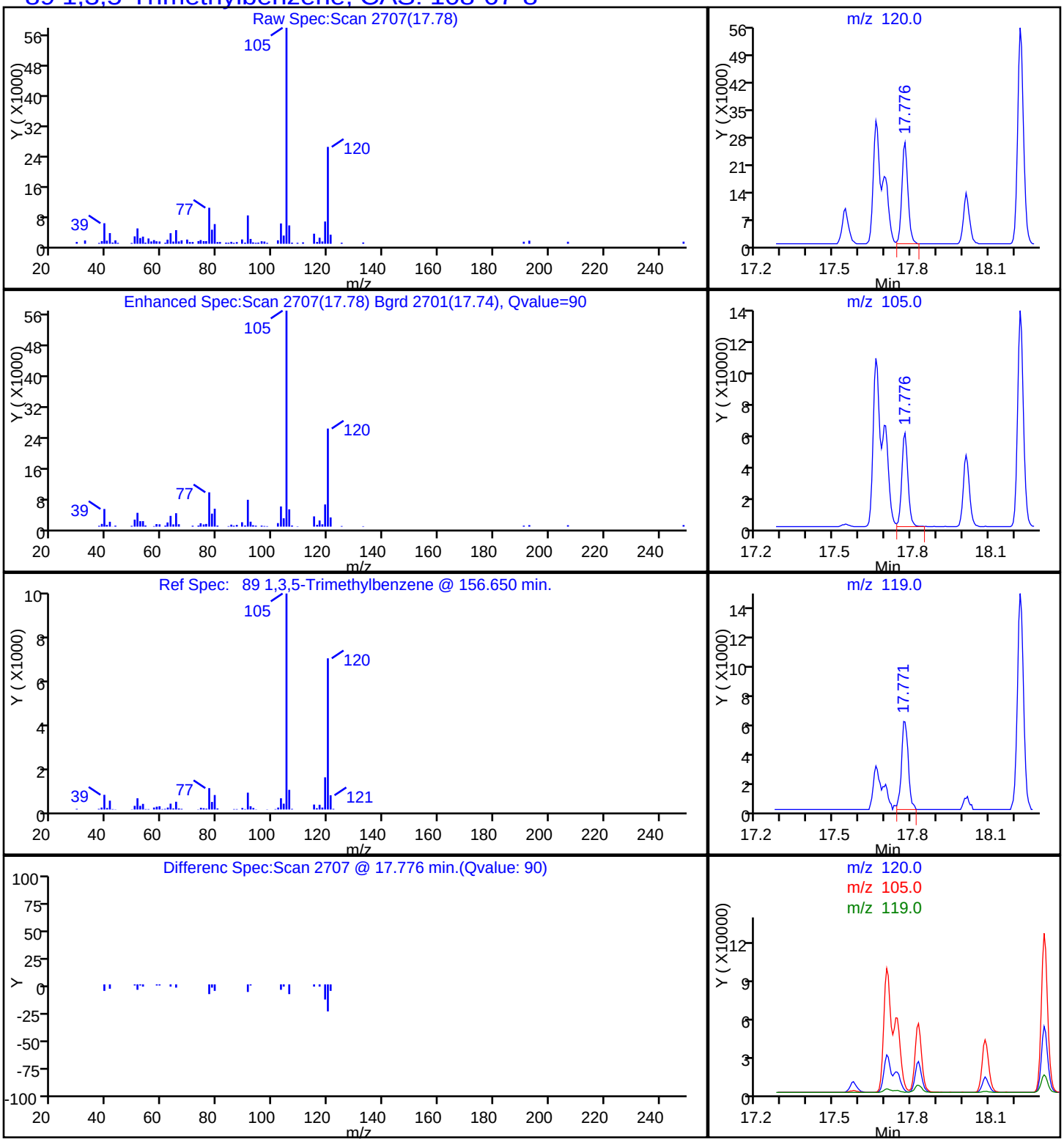


Report Date: 17-Mar-2014 16:29:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D				
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



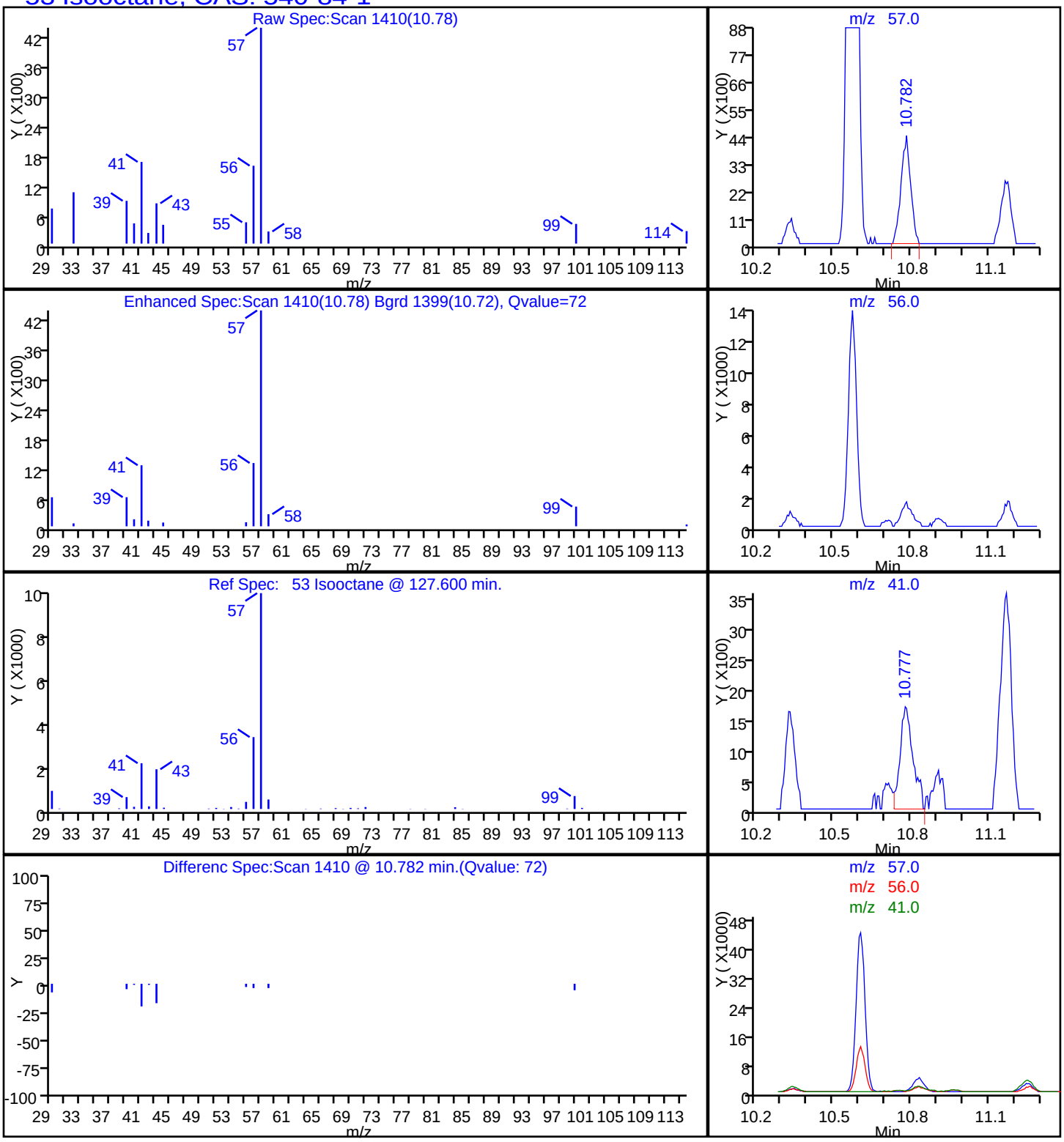
Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



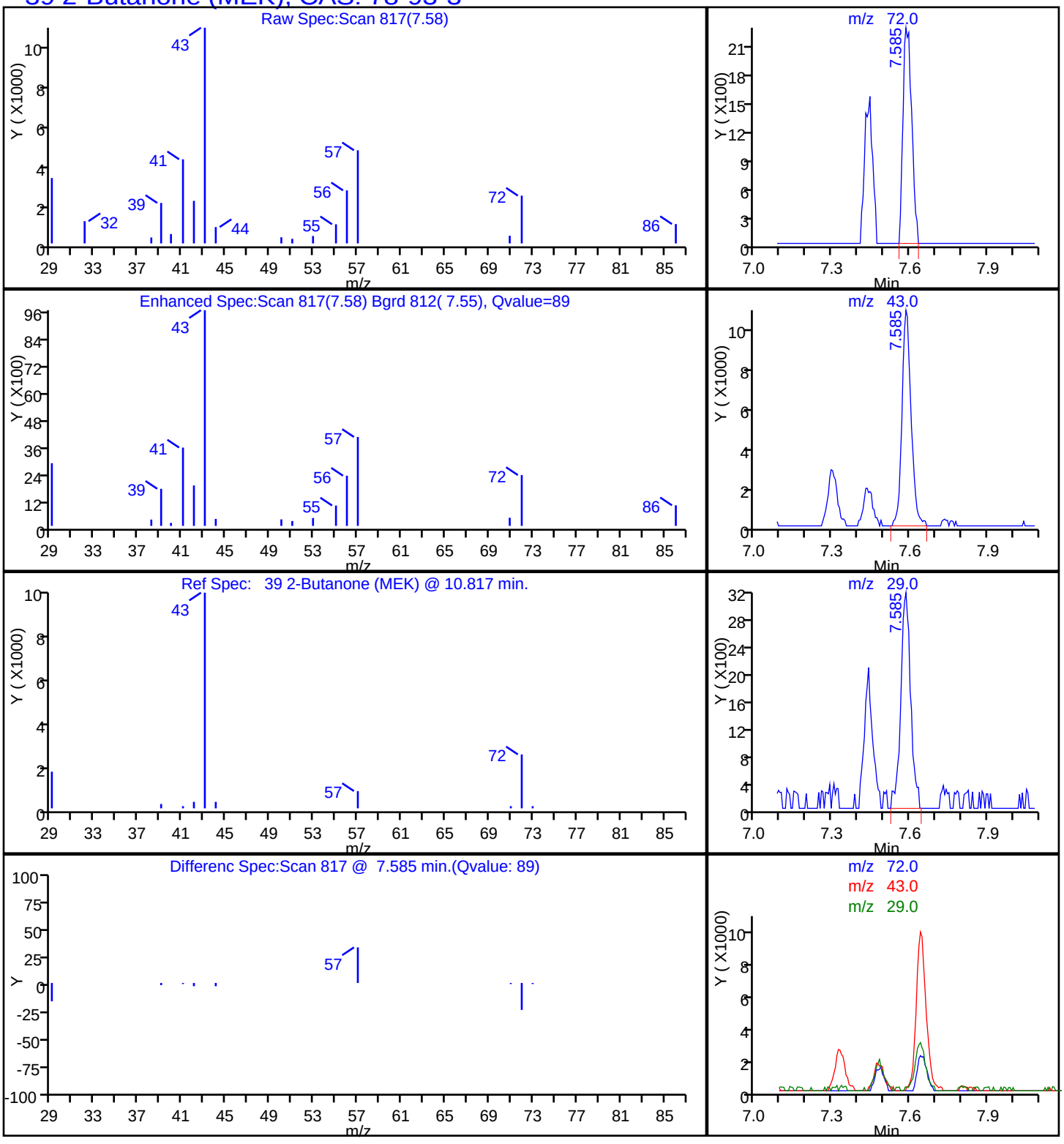
Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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TestAmerica Knoxville

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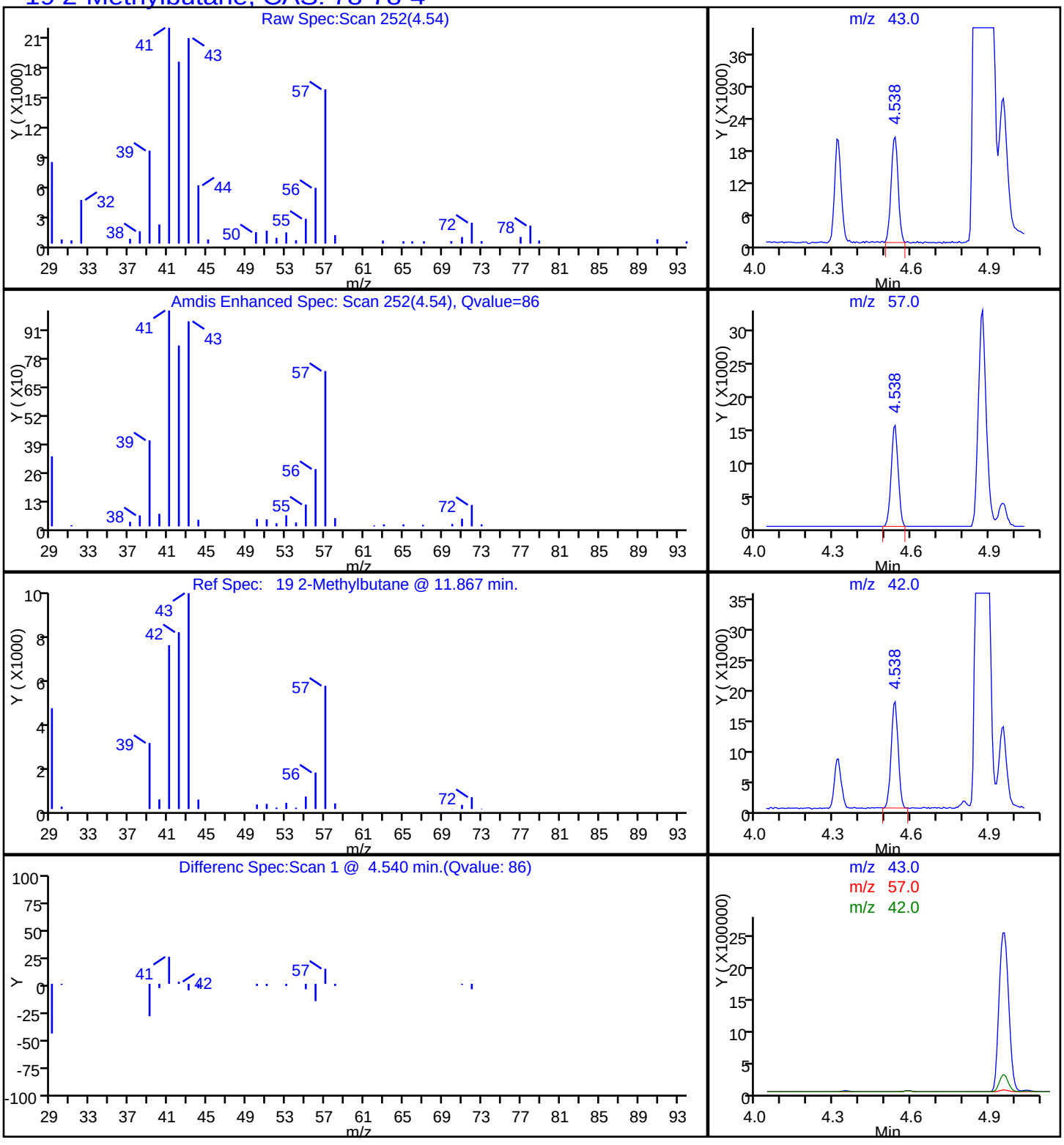
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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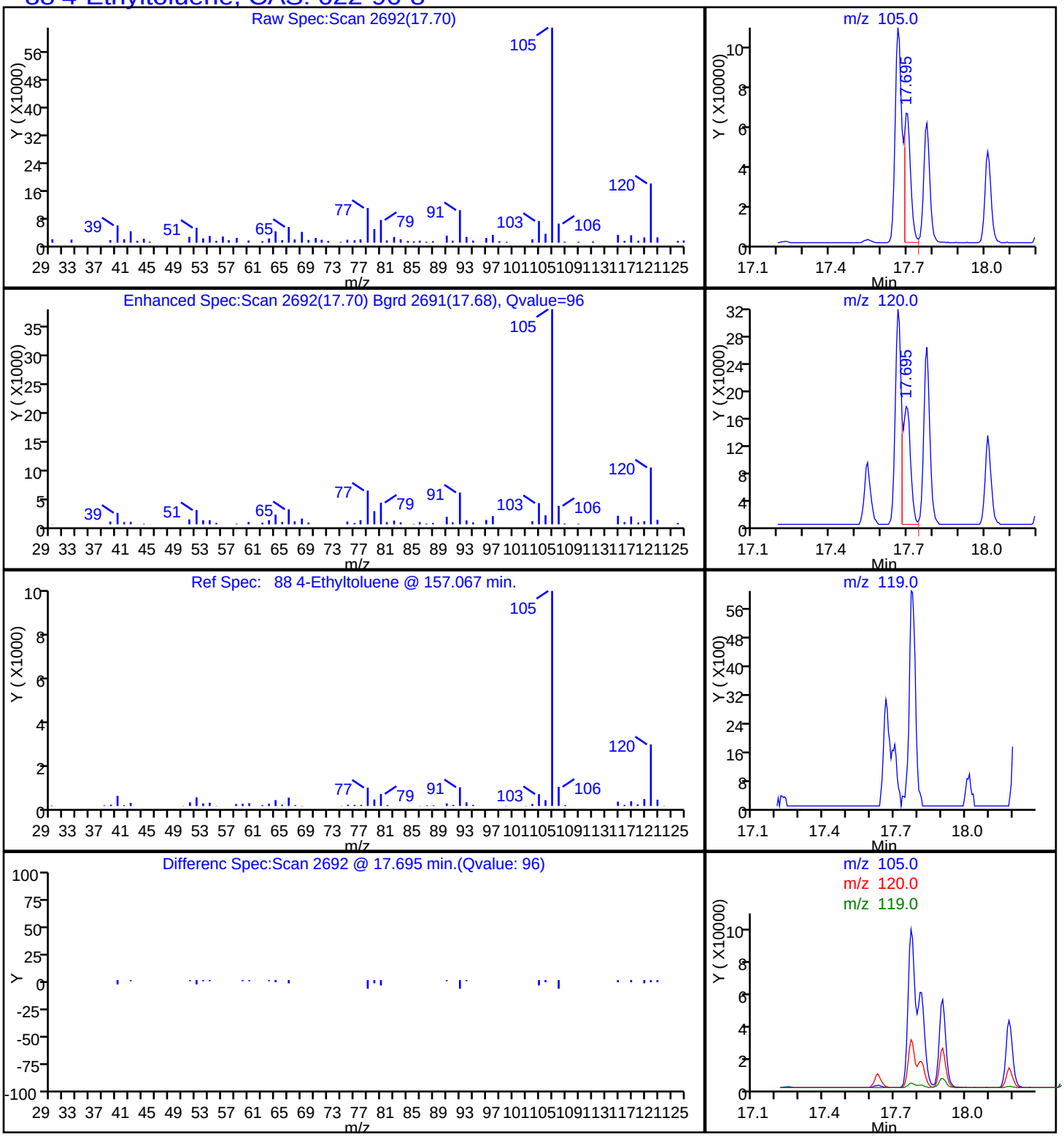
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



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TestAmerica Knoxville

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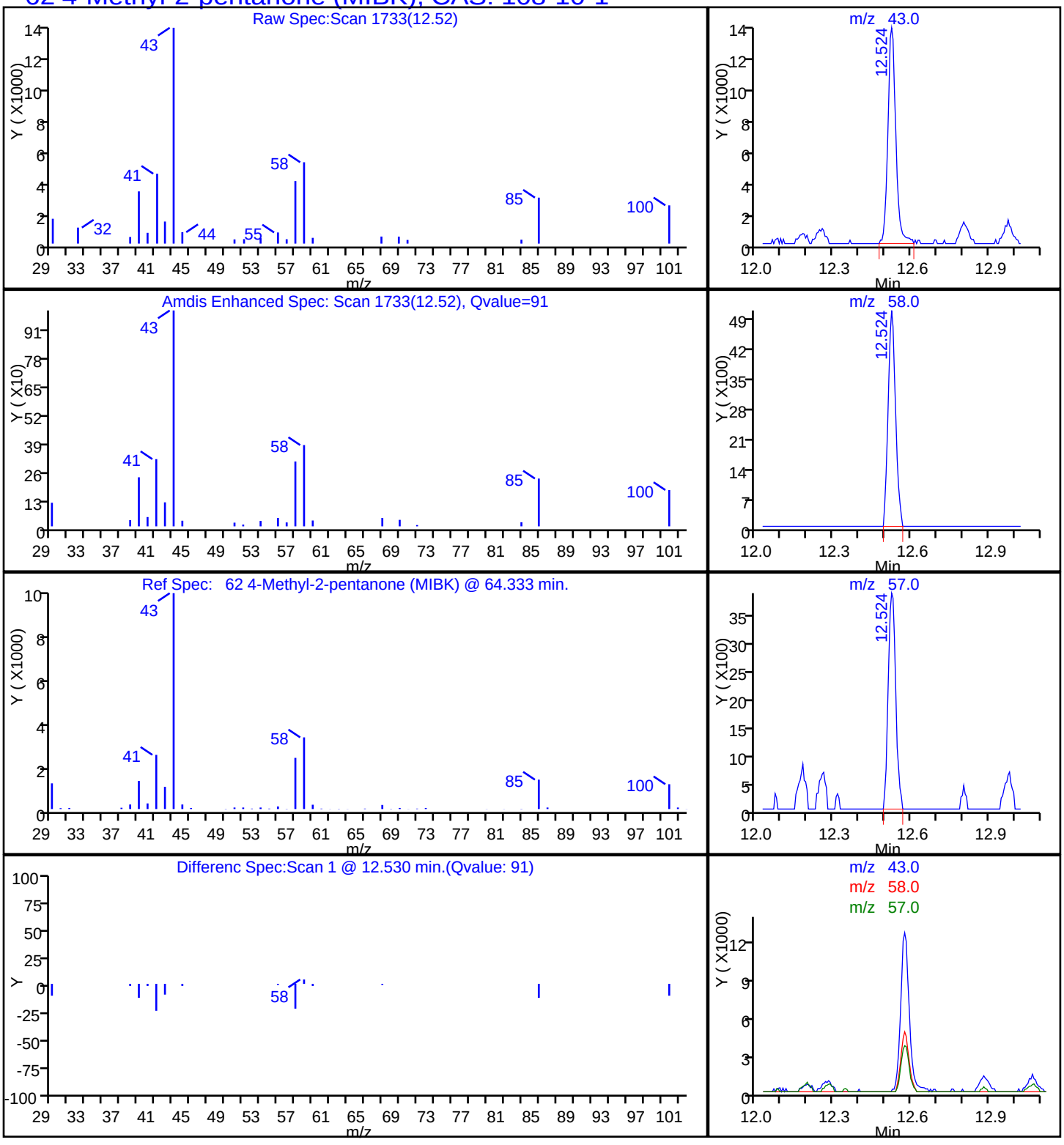
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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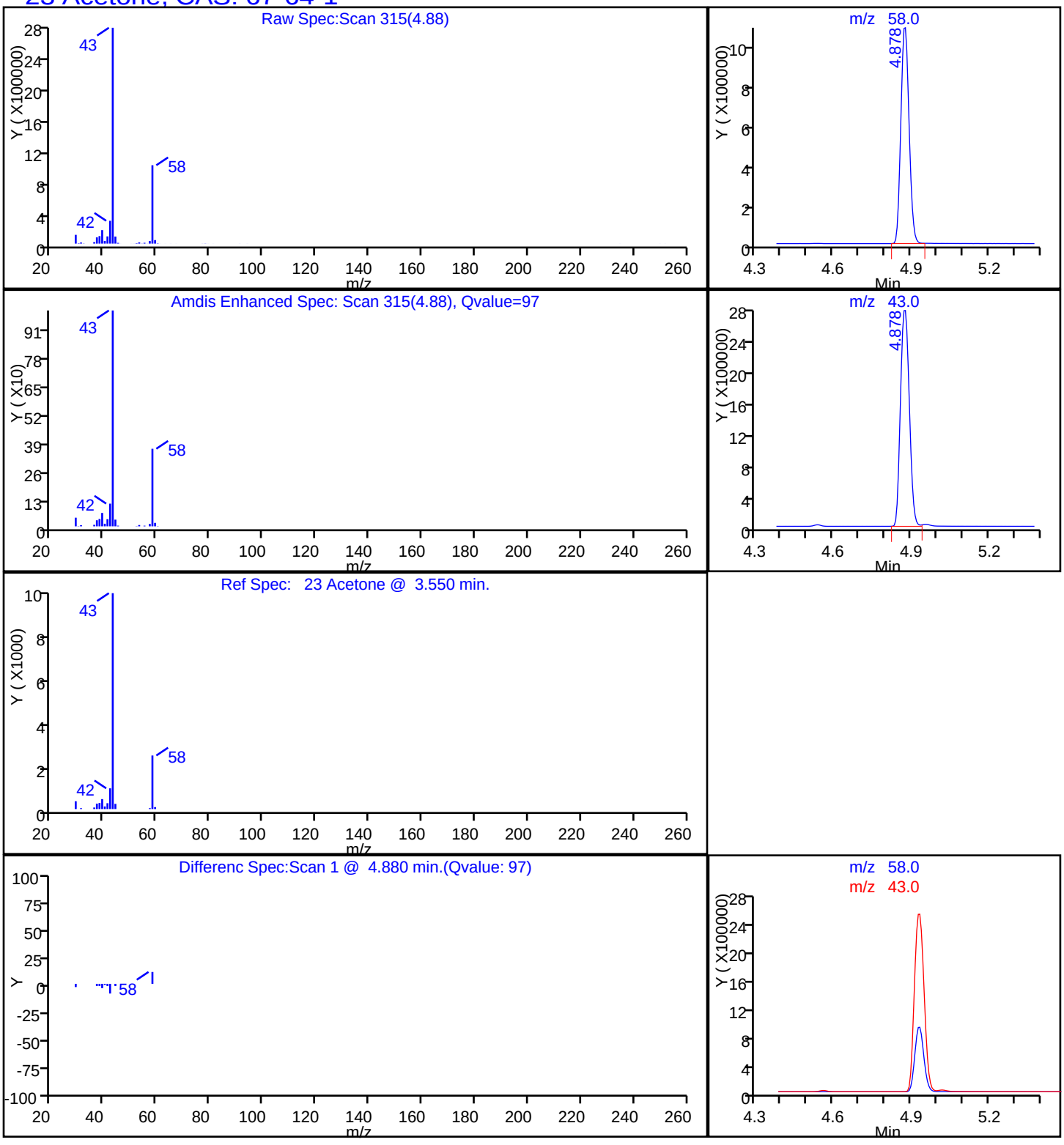
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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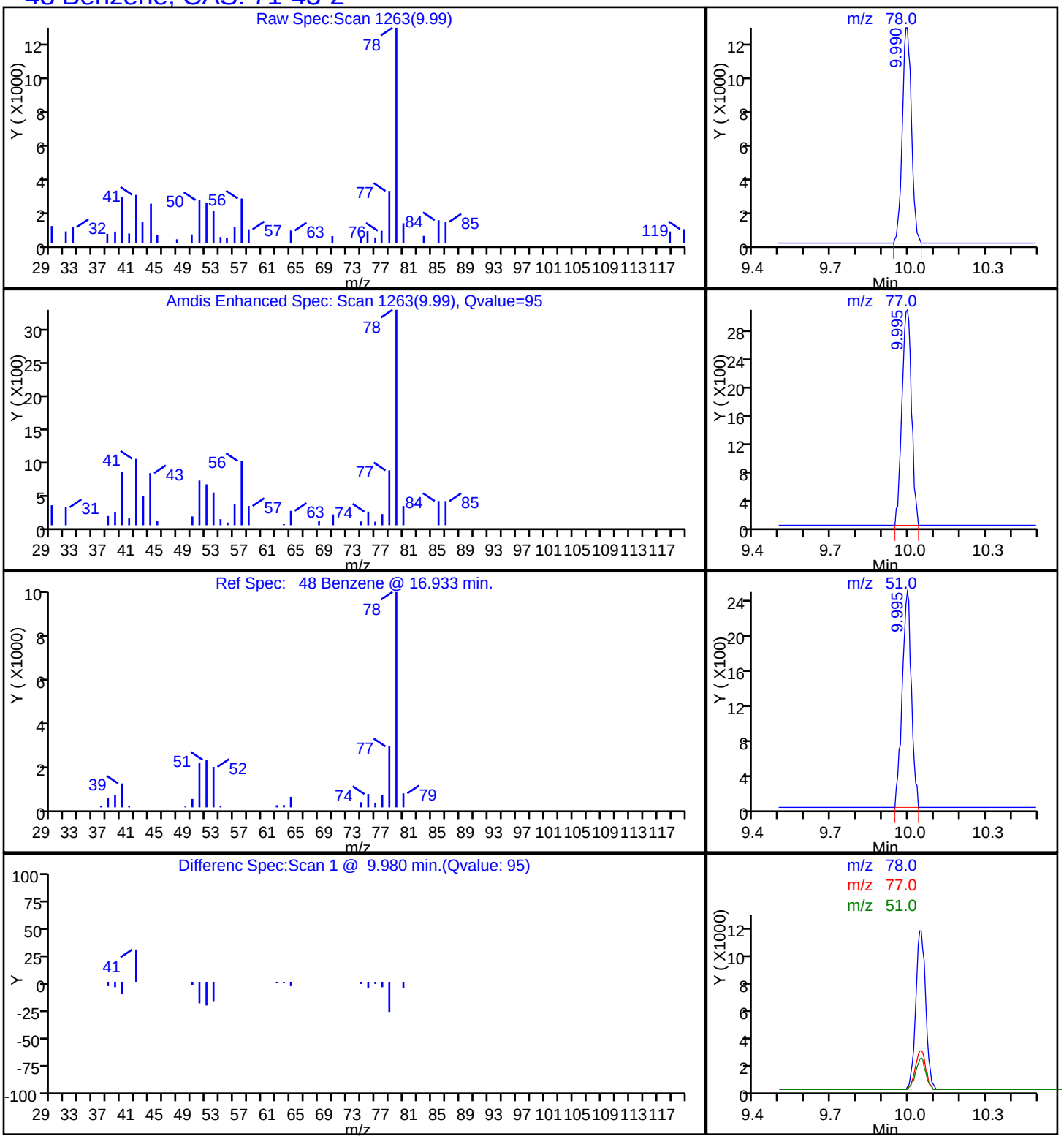
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

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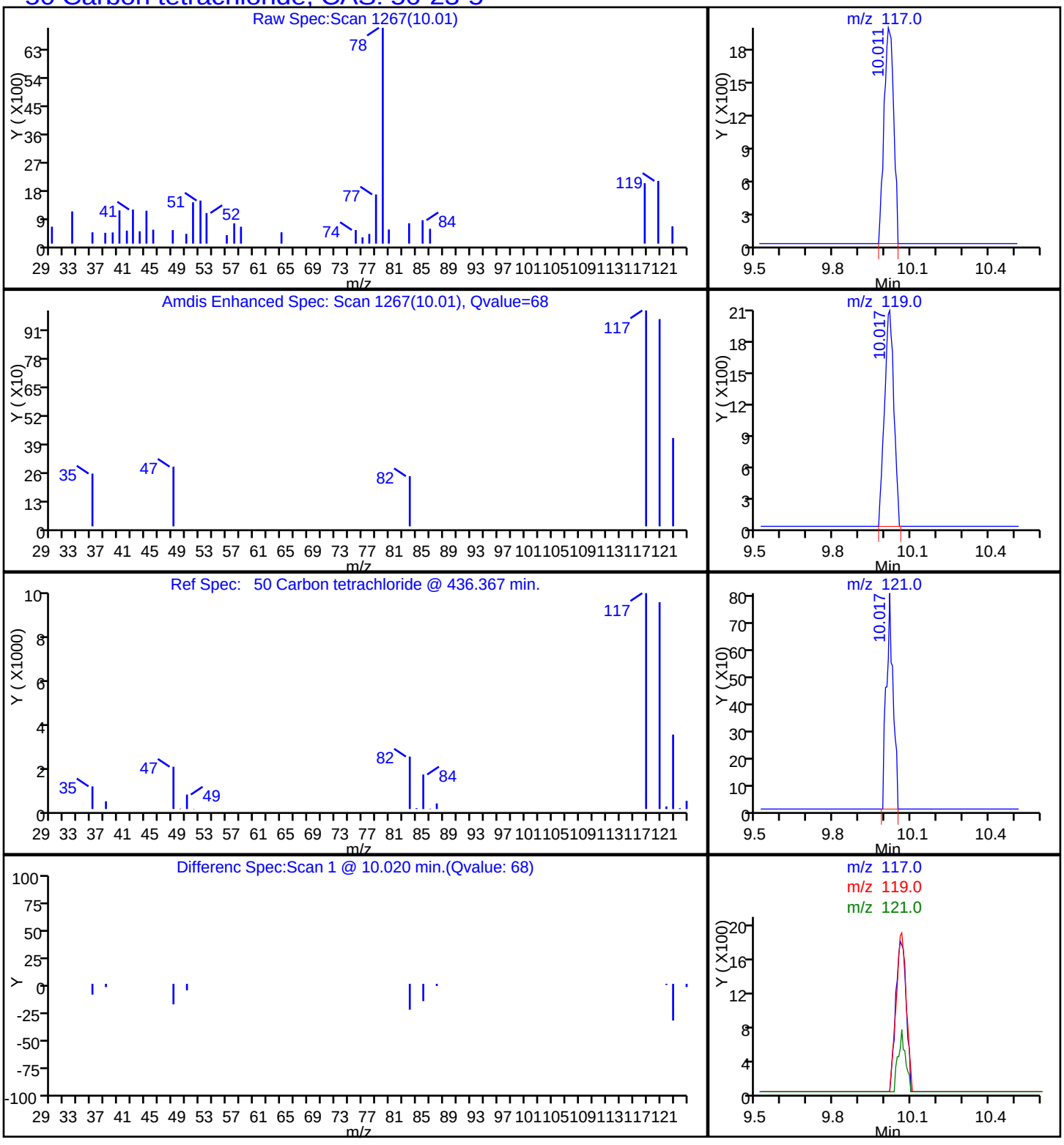
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

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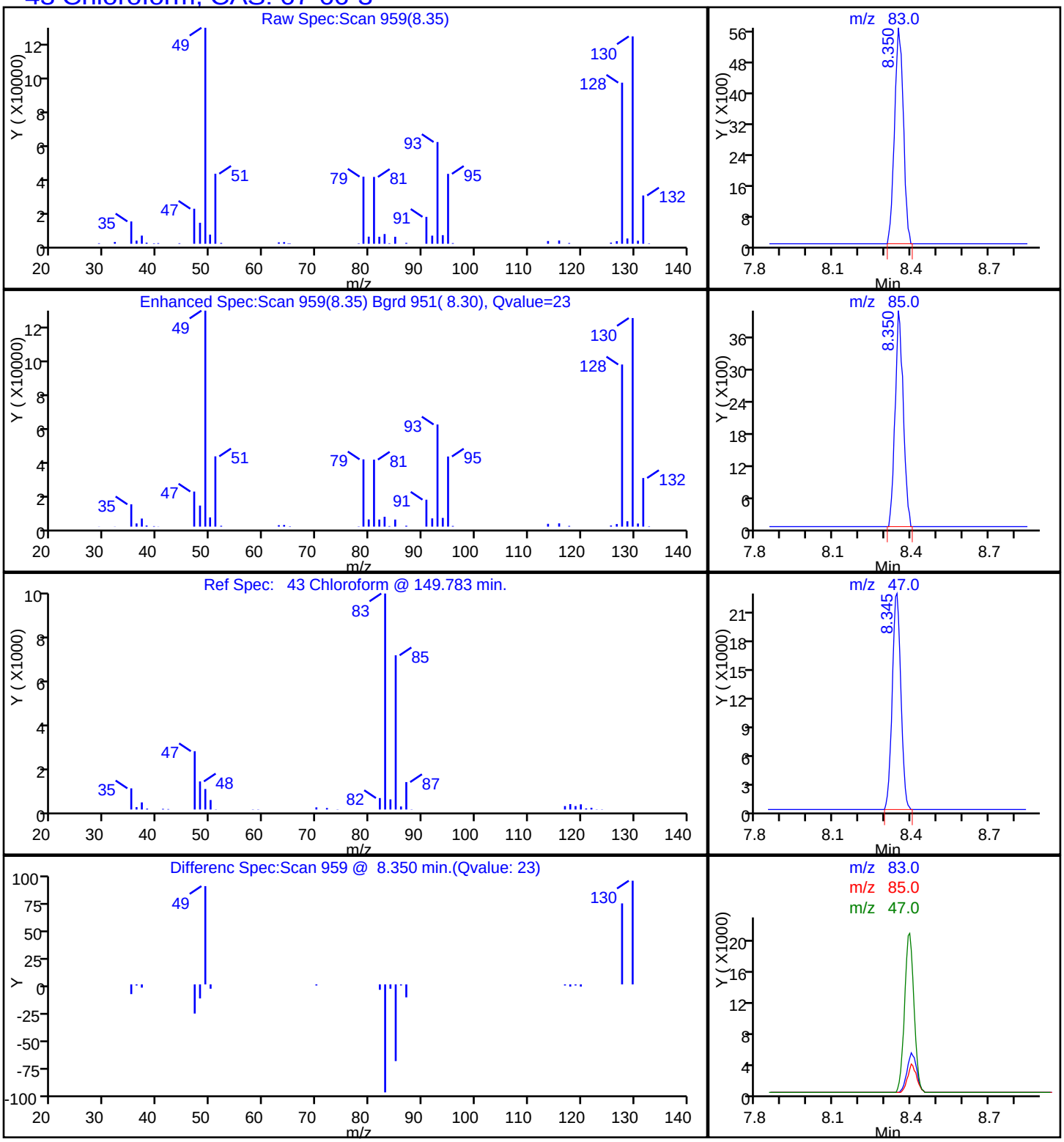
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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TestAmerica Knoxville

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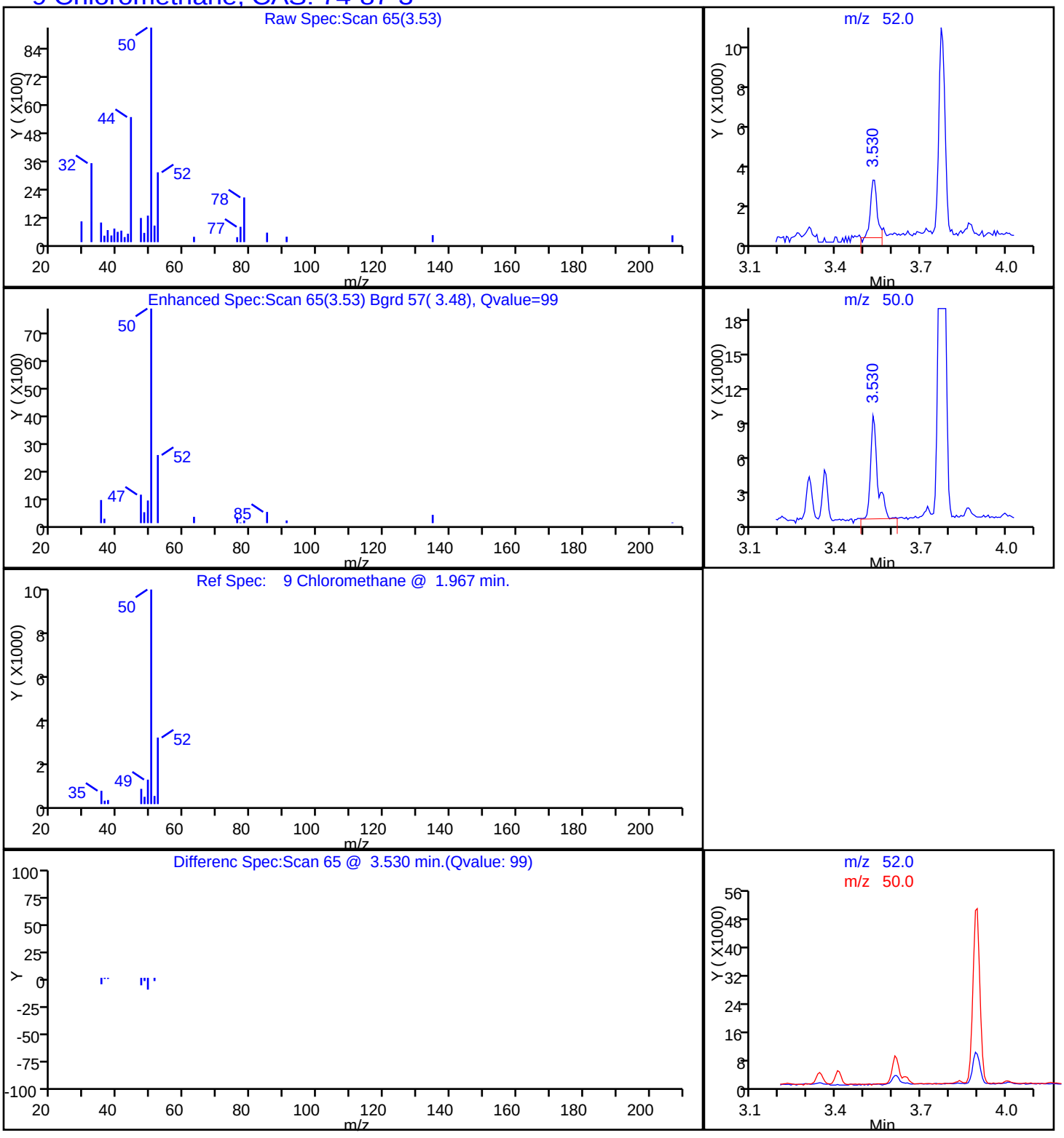
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



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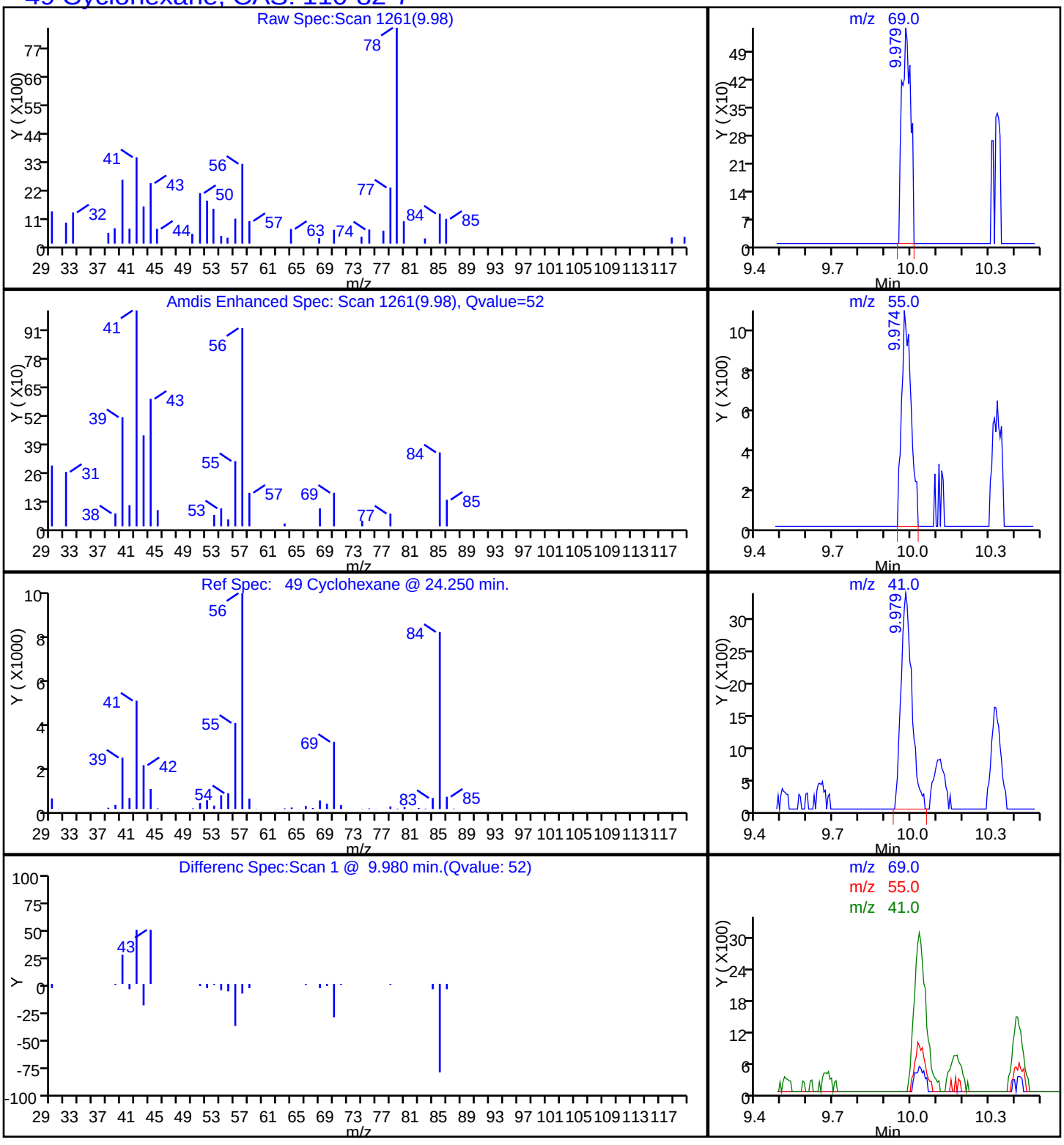
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7



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TestAmerica Knoxville

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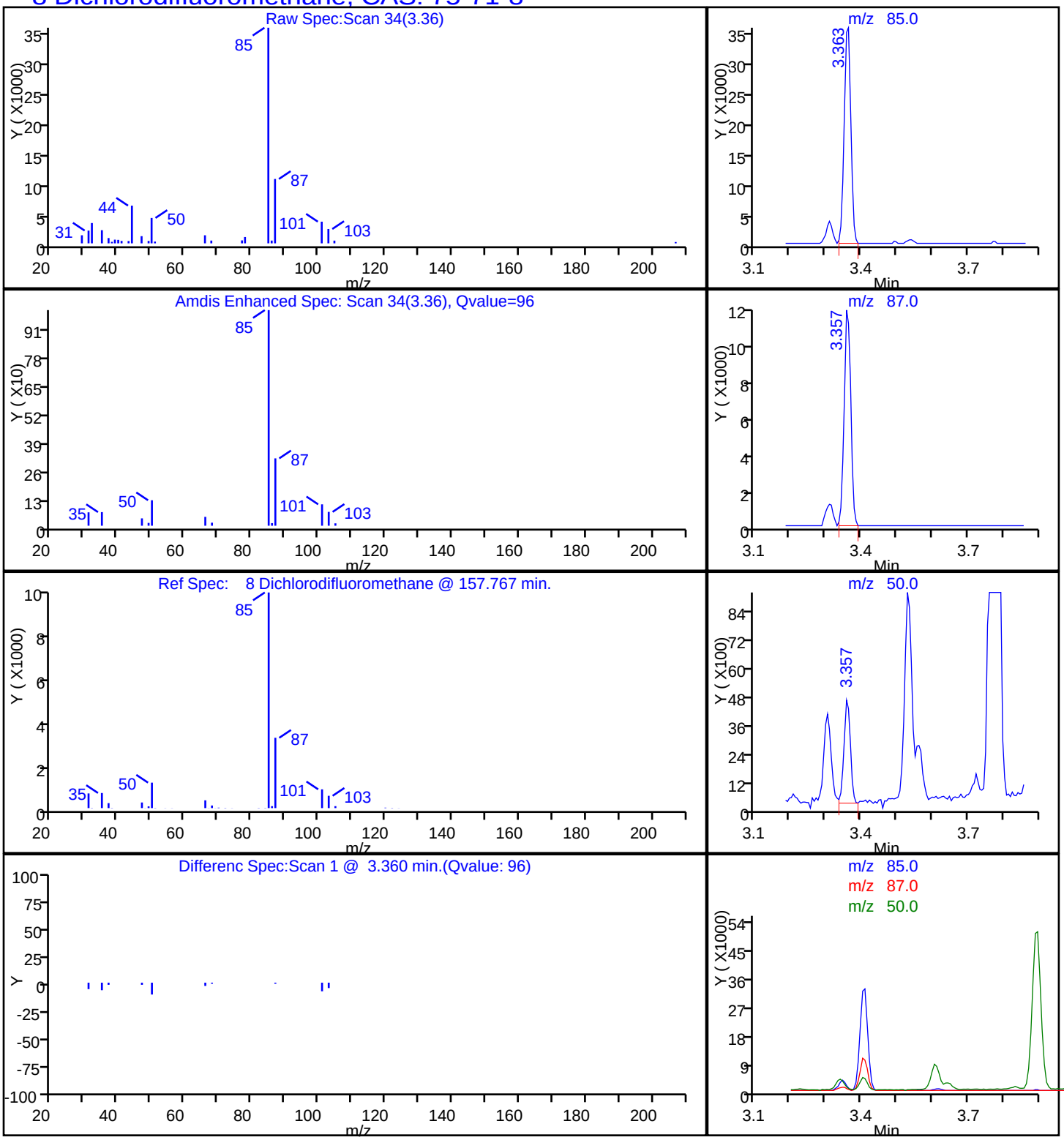
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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TestAmerica Knoxville

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Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
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Client ID:	PCV-IA3-B13		
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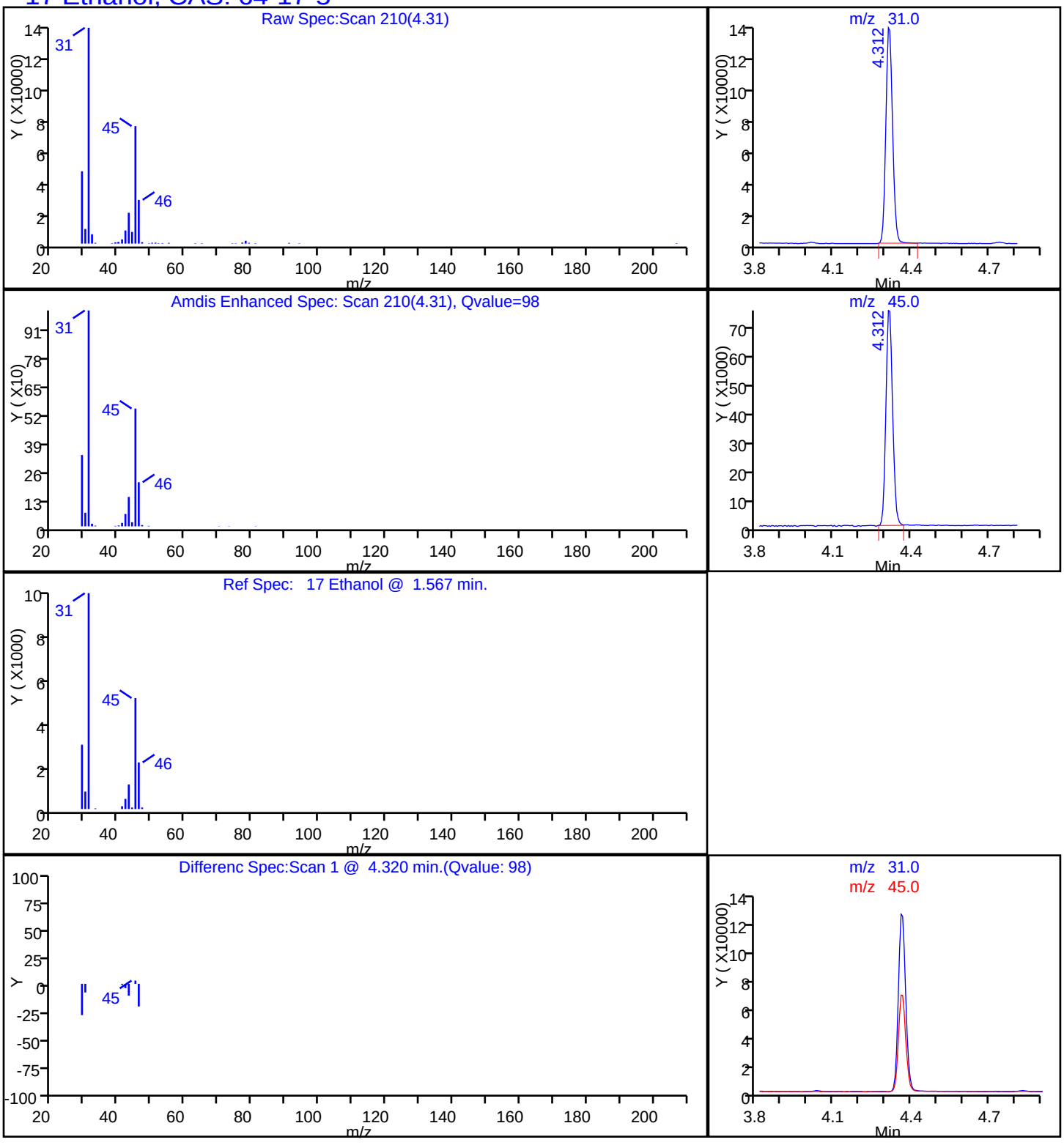
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D		
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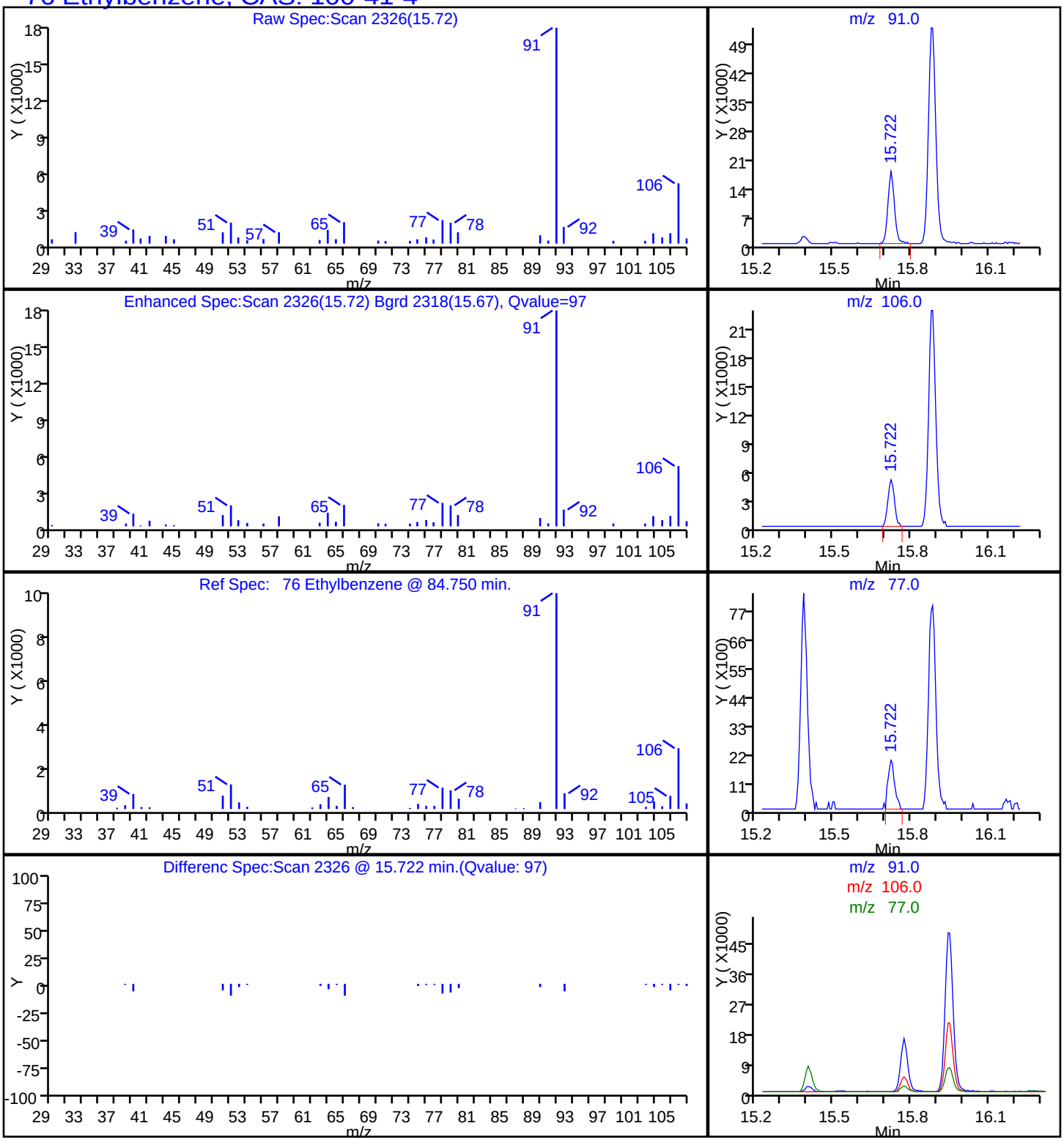
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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TestAmerica Knoxville

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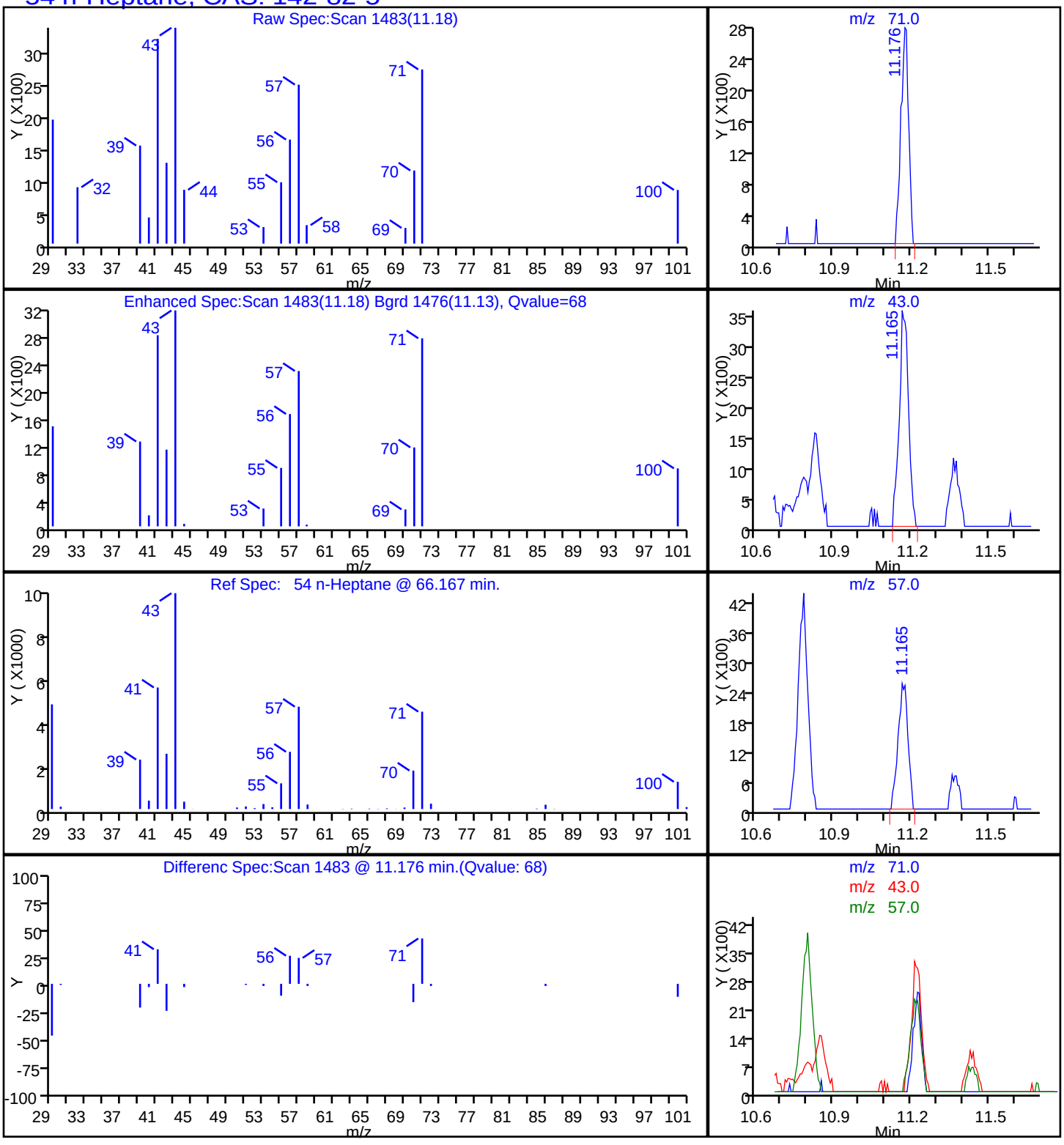
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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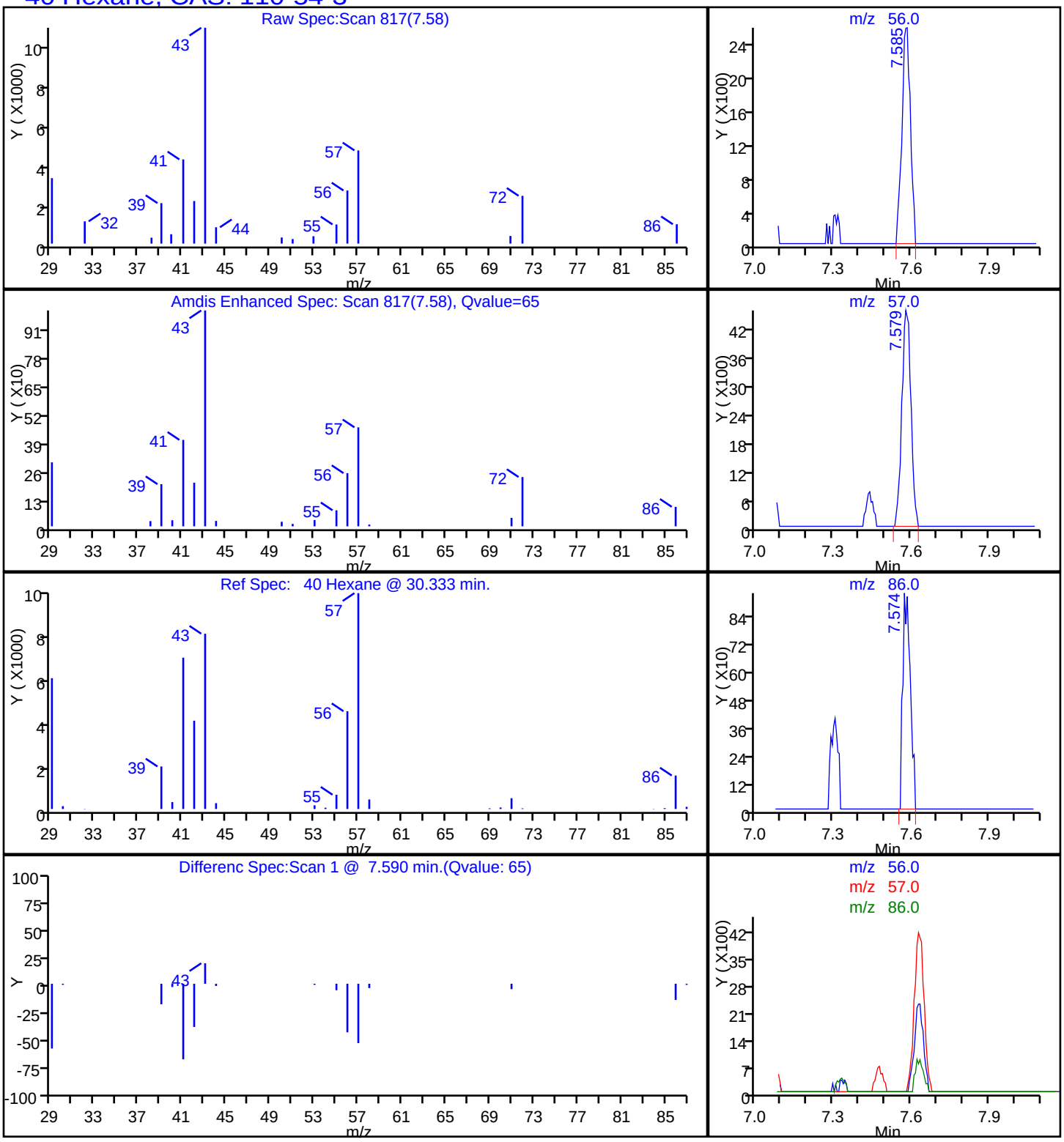
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
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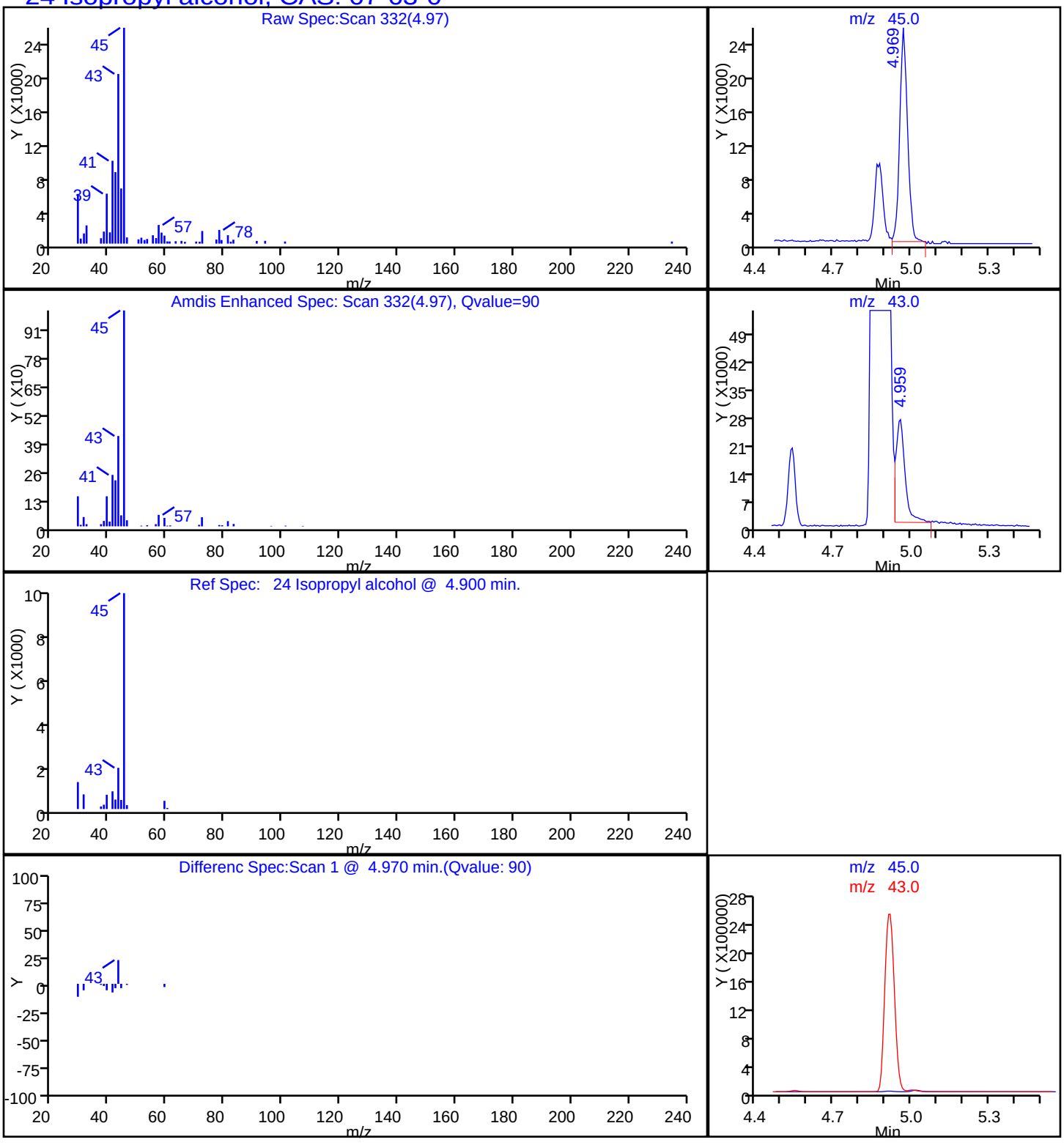
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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TestAmerica Knoxville

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Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
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Client ID:	PCV-IA3-B13		
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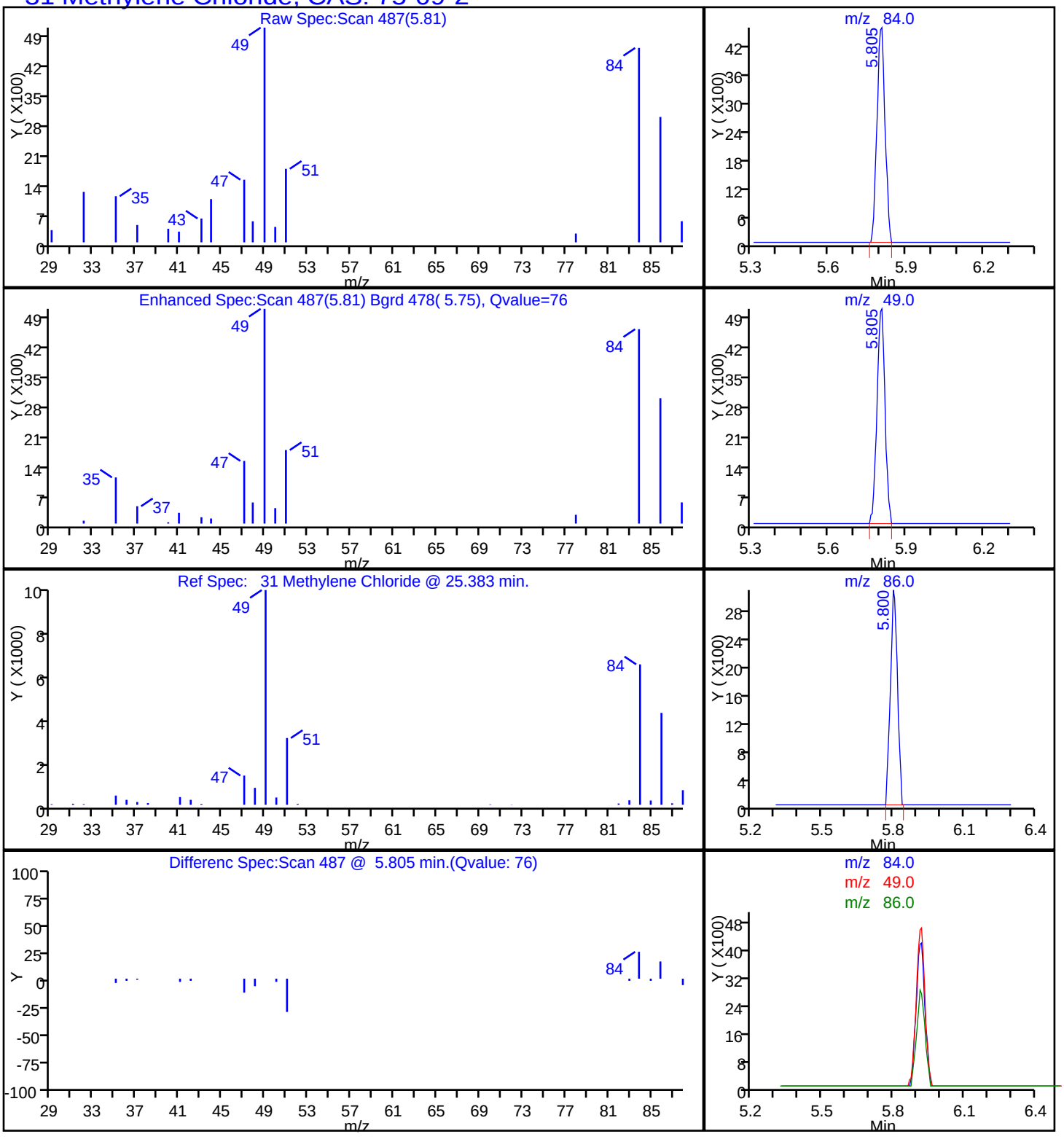
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D				
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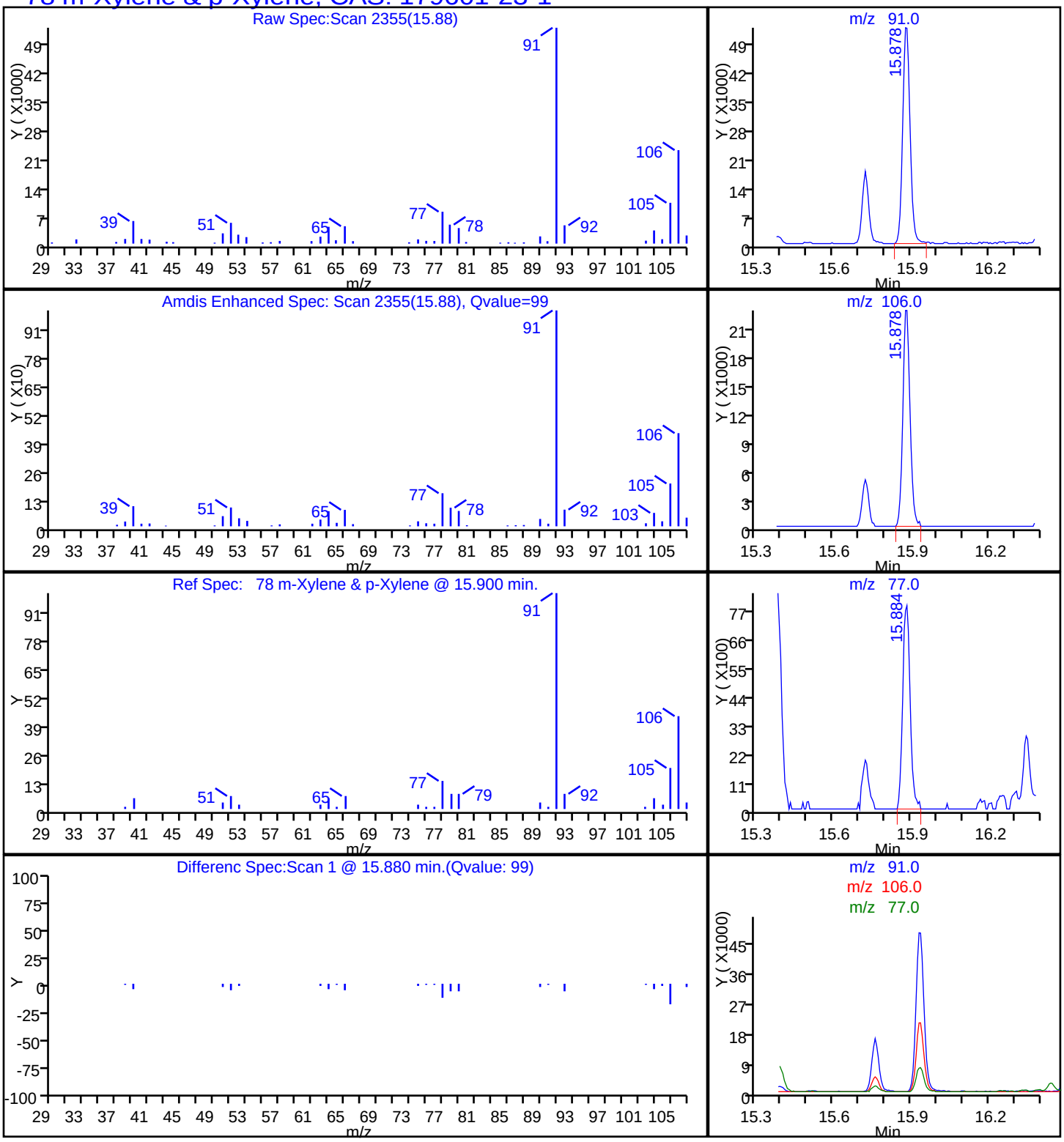
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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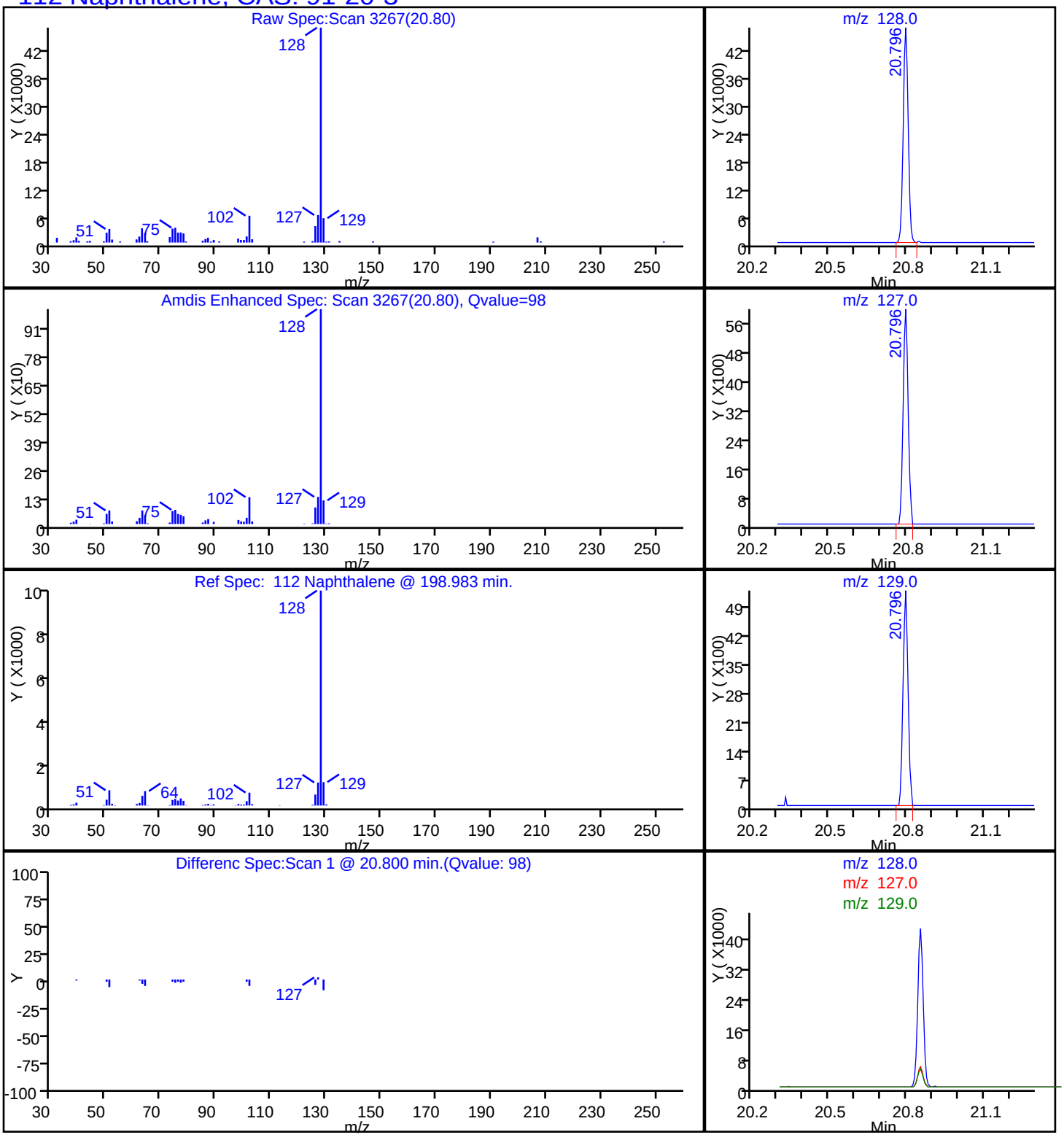
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

112 Naphthalene, CAS: 91-20-3



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Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D		
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Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
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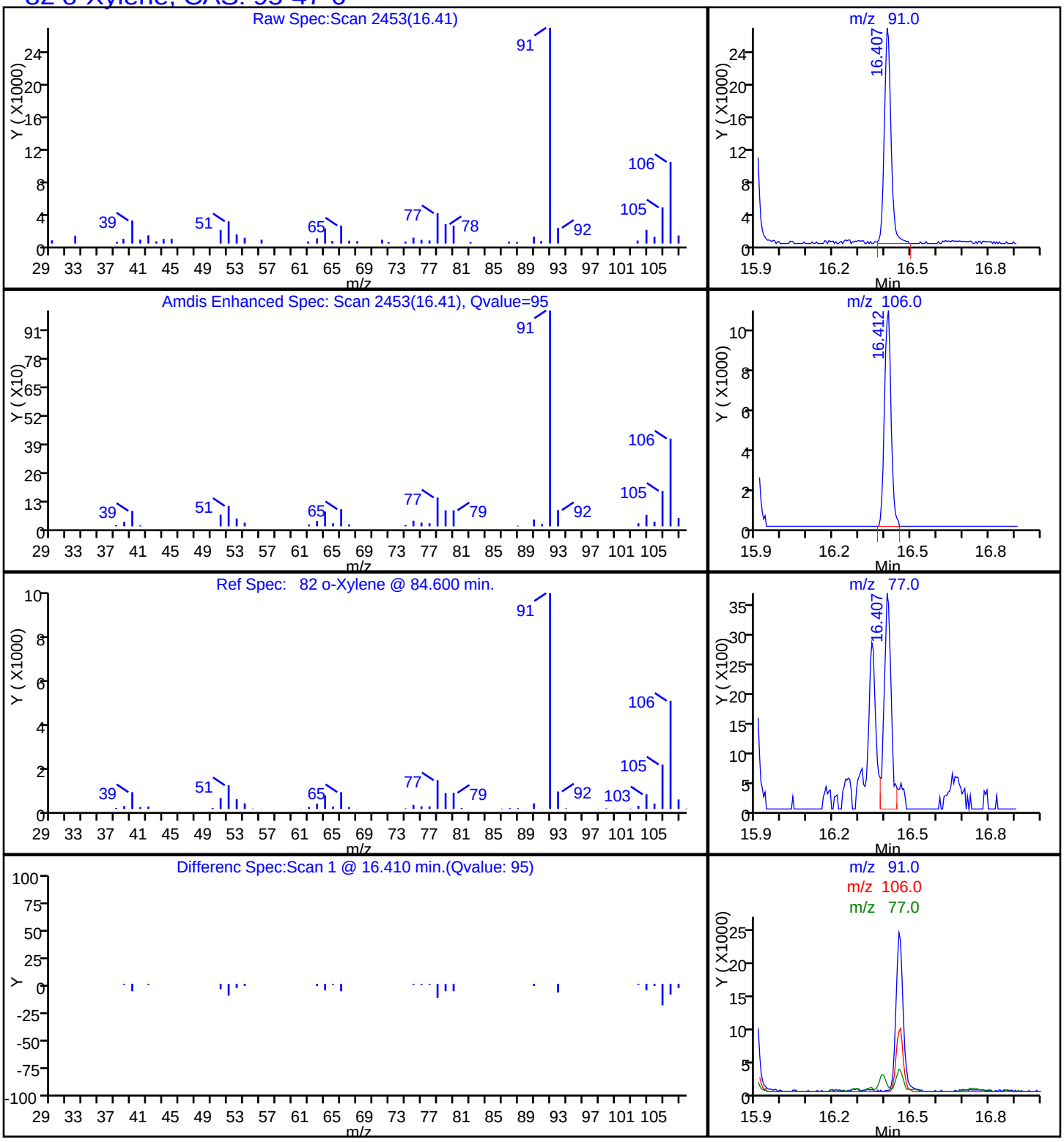
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
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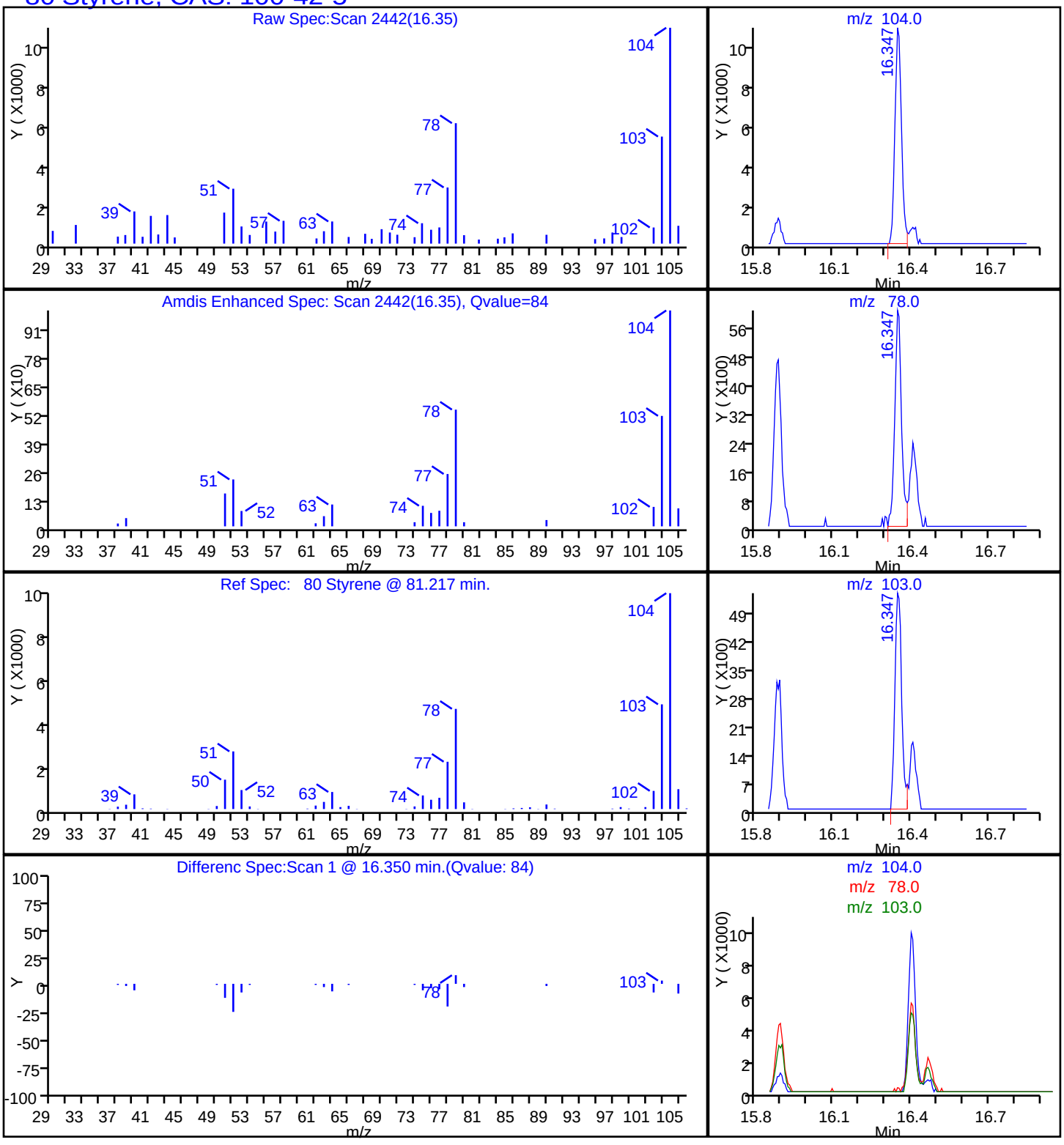
80 Styrene, CAS: 100-42-5



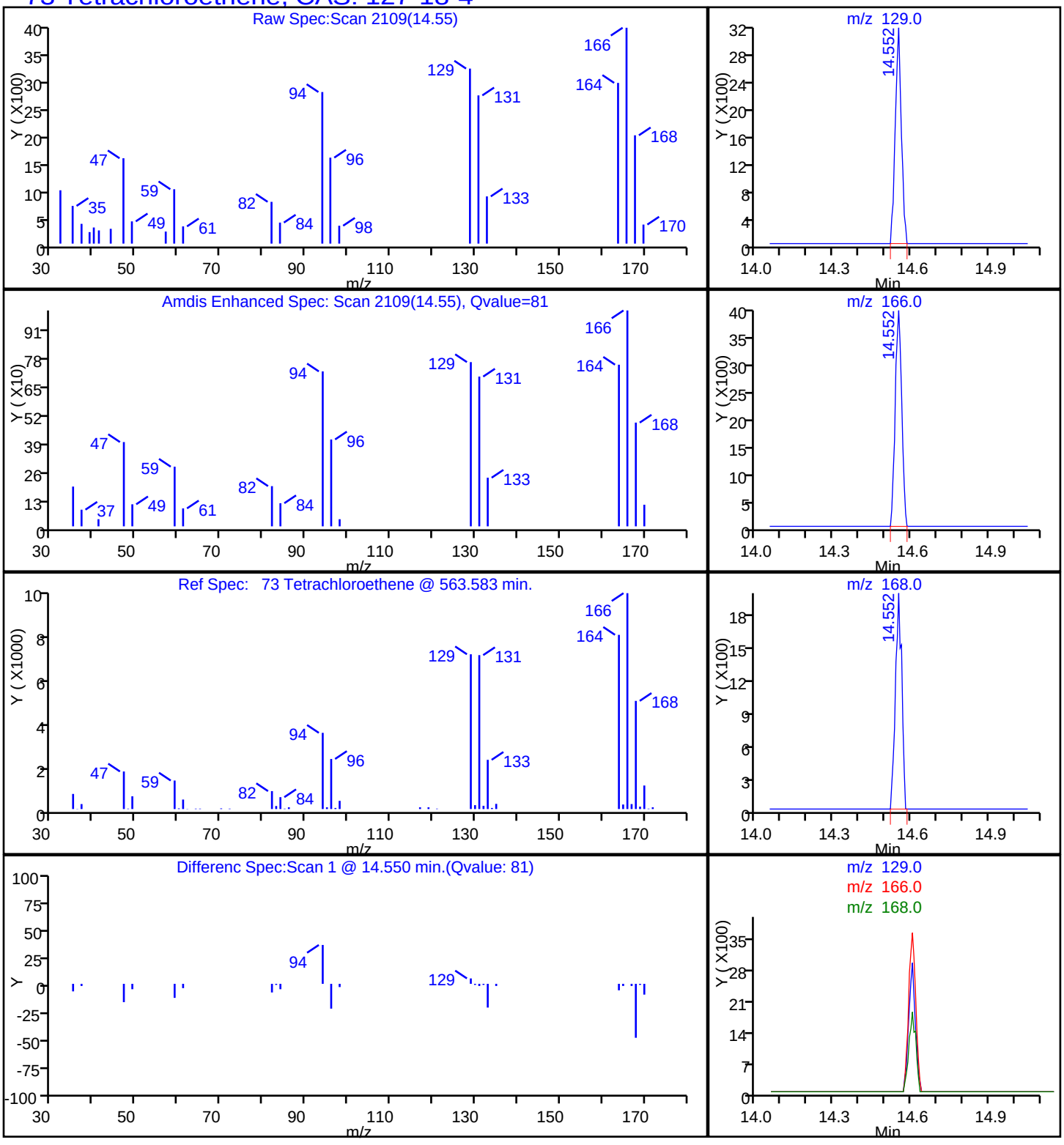
Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

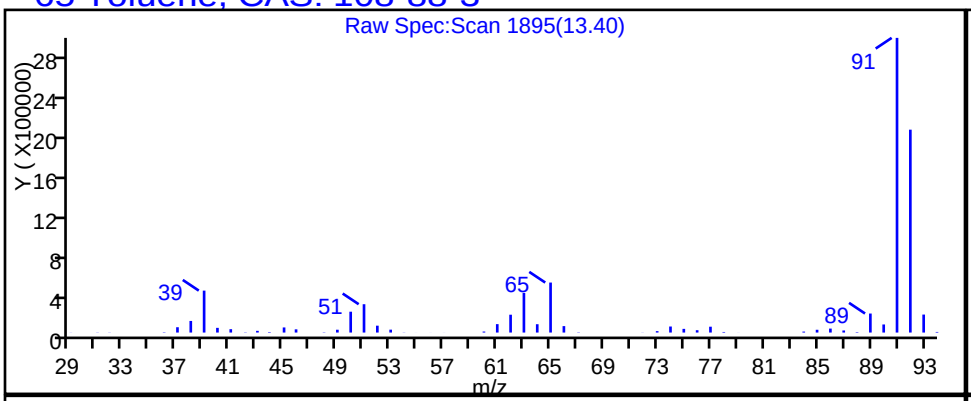


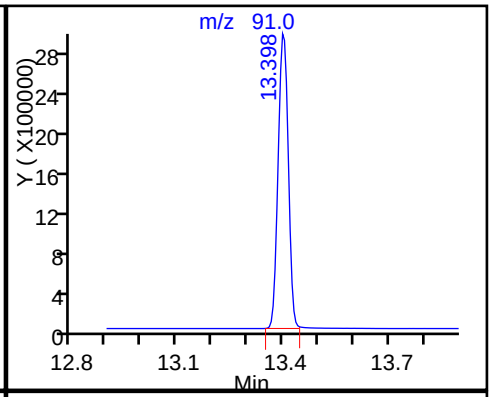
Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

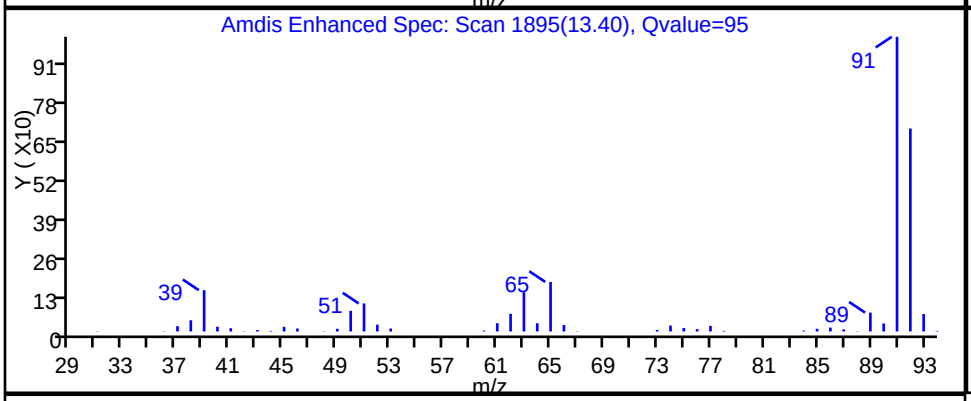
TestAmerica Knoxville

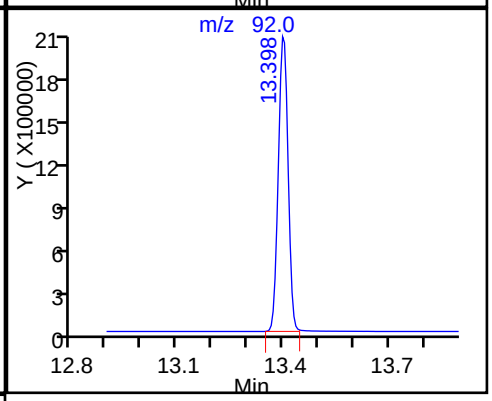
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D		
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7
Client ID:	PCV-IA3-B13		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

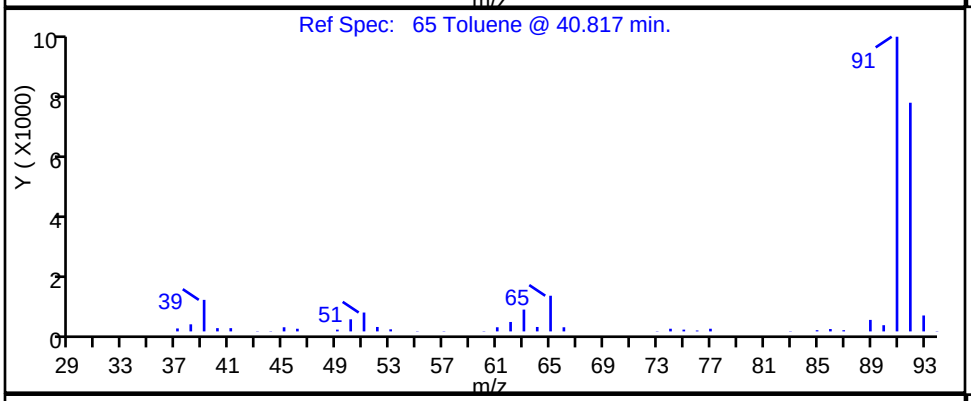
65 Toluene, CAS: 108-88-3

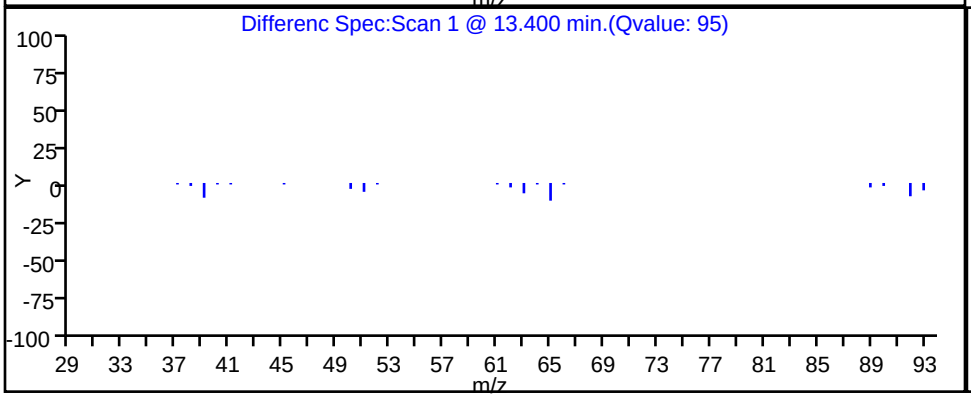


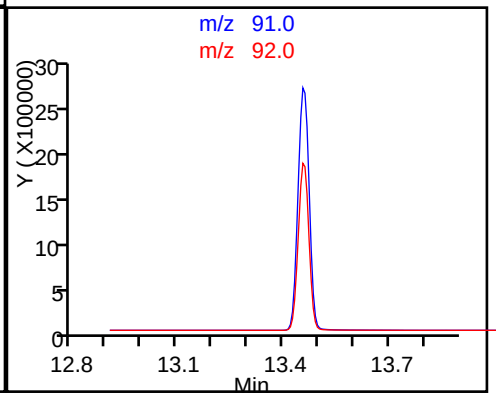












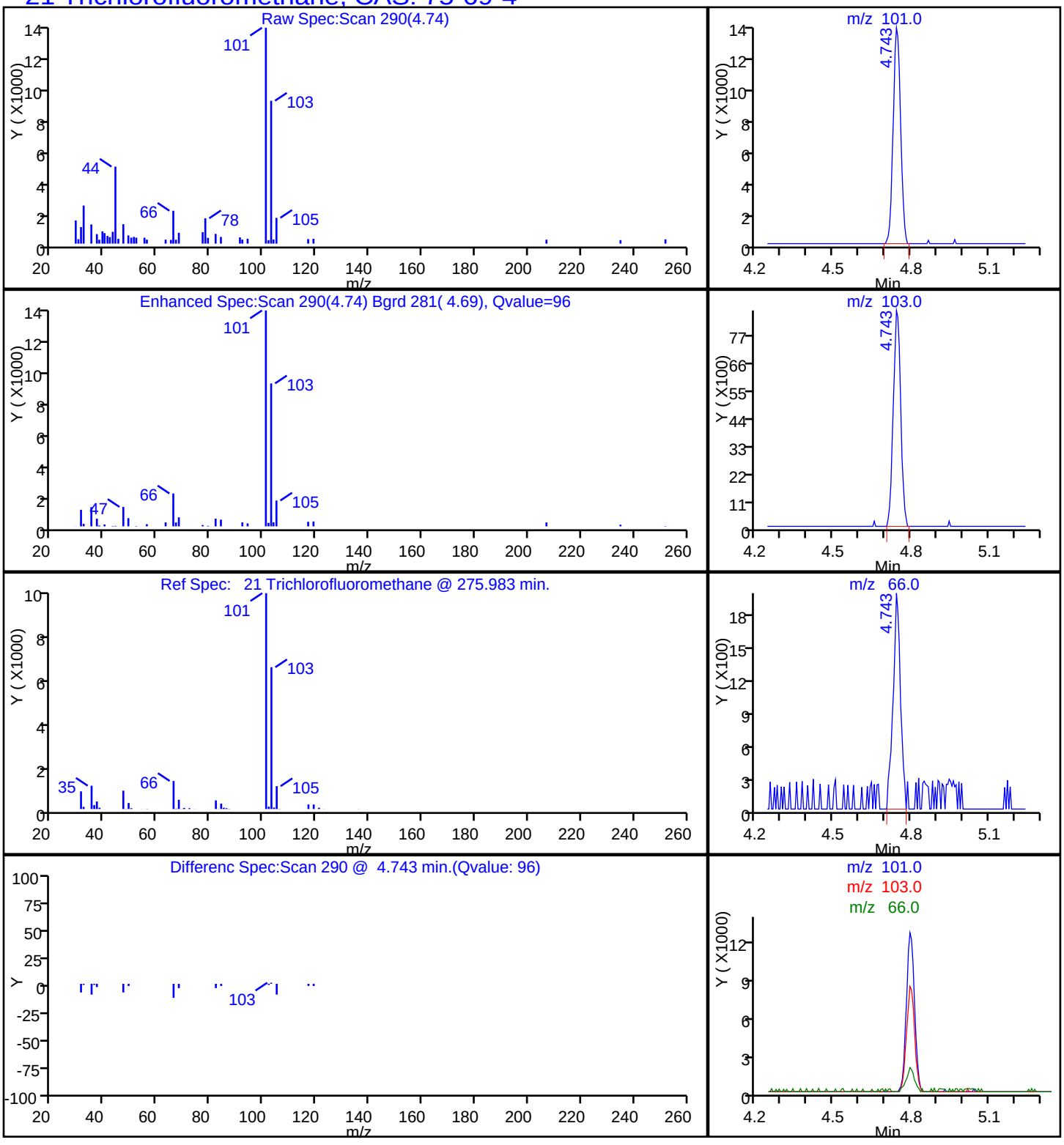
Report Date: 17-Mar-2014 16:29:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D

Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

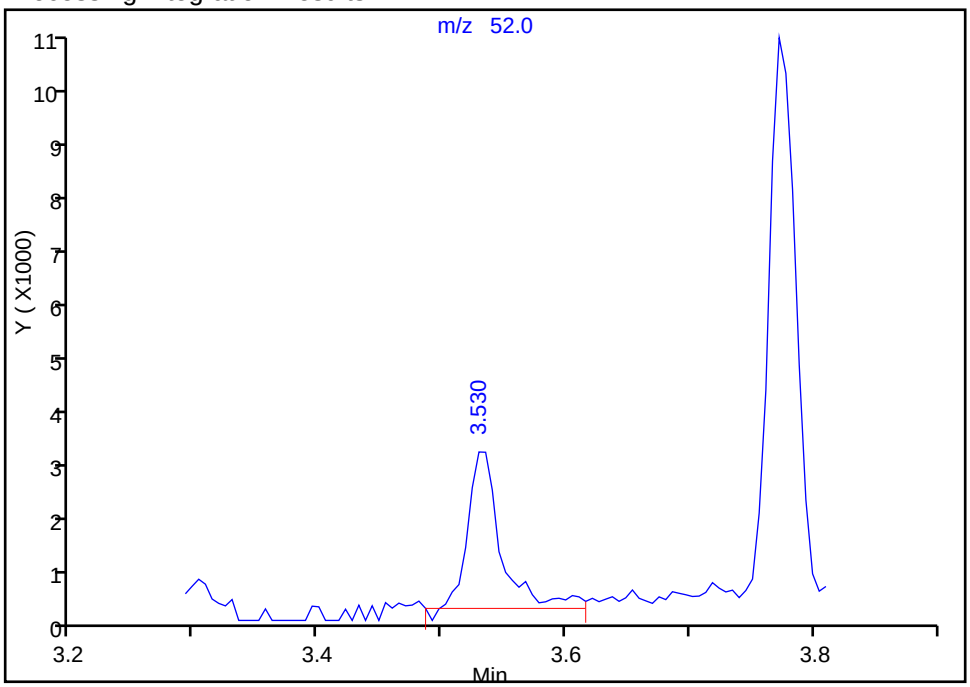
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P107.D				
Injection Date:	14-Mar-2014 21:28:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

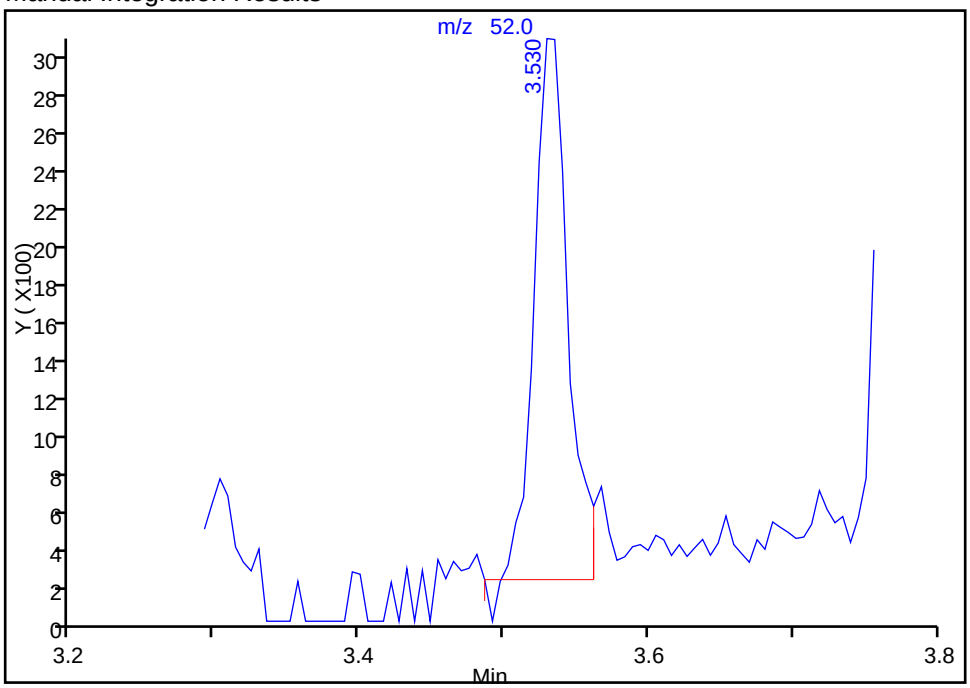
Processing Integration Results

RT: 3.53
Response: 5196
Amount: 0.265327



Manual Integration Results

RT: 3.53
Response: 4548
Amount: 0.232238



Reviewer: barlozhetskayaa, 17-Mar-2014 16:29:05
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 DL | Lab Sample ID: 140-1041-7 DL

Matrix: Air | Lab File ID: EC17POS201.D

Analysis Method: TO-15 | Date Collected: 03/11/2014 16:14

Sample wt/vol: 30(mL) | Date Analyzed: 03/18/2014 06:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 967 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	220		33	9.3
108-88-3	Toluene	92.14	72		1.3	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B13 DL | Lab Sample ID: 140-1041-7 DL

Matrix: Air | Lab File ID: EC17POS201.D

Analysis Method: TO-15 | Date Collected: 03/11/2014 16:14

Sample wt/vol: 30(mL) | Date Analyzed: 03/18/2014 06:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 967 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	520		79	22
108-88-3	Toluene	92.14	270		5.0	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS201.D
Lims ID: 140-1041-A-7 Lab Sample ID: 140-1041-7
Client ID: PCV-IA3-B13
Sample Type: Client
Inject. Date: 18-Mar-2014 06:03:30 ALS Bottle#: 1 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-7
Misc. Info.: E031714,TO155,,140-0000525-022
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 12:34:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:34:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	79	187920	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	951051	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	769534	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	82	582377	3.46	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	87	7504	0.0361	
17 Ethanol	31	4.306	4.317	-0.011	98	46109	2.45	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	6982	0.1061	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	78	4106	0.0197	
23 Acetone	58	4.867	4.878	-0.011	99	372689	13.1	
24 Isopropyl alcohol	45	4.975	4.970	0.005	84	13653	0.1863	
31 Methylene Chloride	84	5.794	5.789	0.005	60	2810	0.0523	
40 Hexane	56	7.579	7.585	-0.006	62	815	0.0163	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	78	3551	0.0315	
65 Toluene	91	13.398	13.403	-0.005	93	893045	4.33	
88 4-Ethyltoluene	105	17.695	17.695	-0.006	75	11845	0.0417	
89 1,3,5-Trimethylbenzene	120	17.771	17.776	-0.005	79	3889	0.0302	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	87	19673	0.0833	
112 Naphthalene	128	20.796	20.796	0.0	87	7540	0.0441	

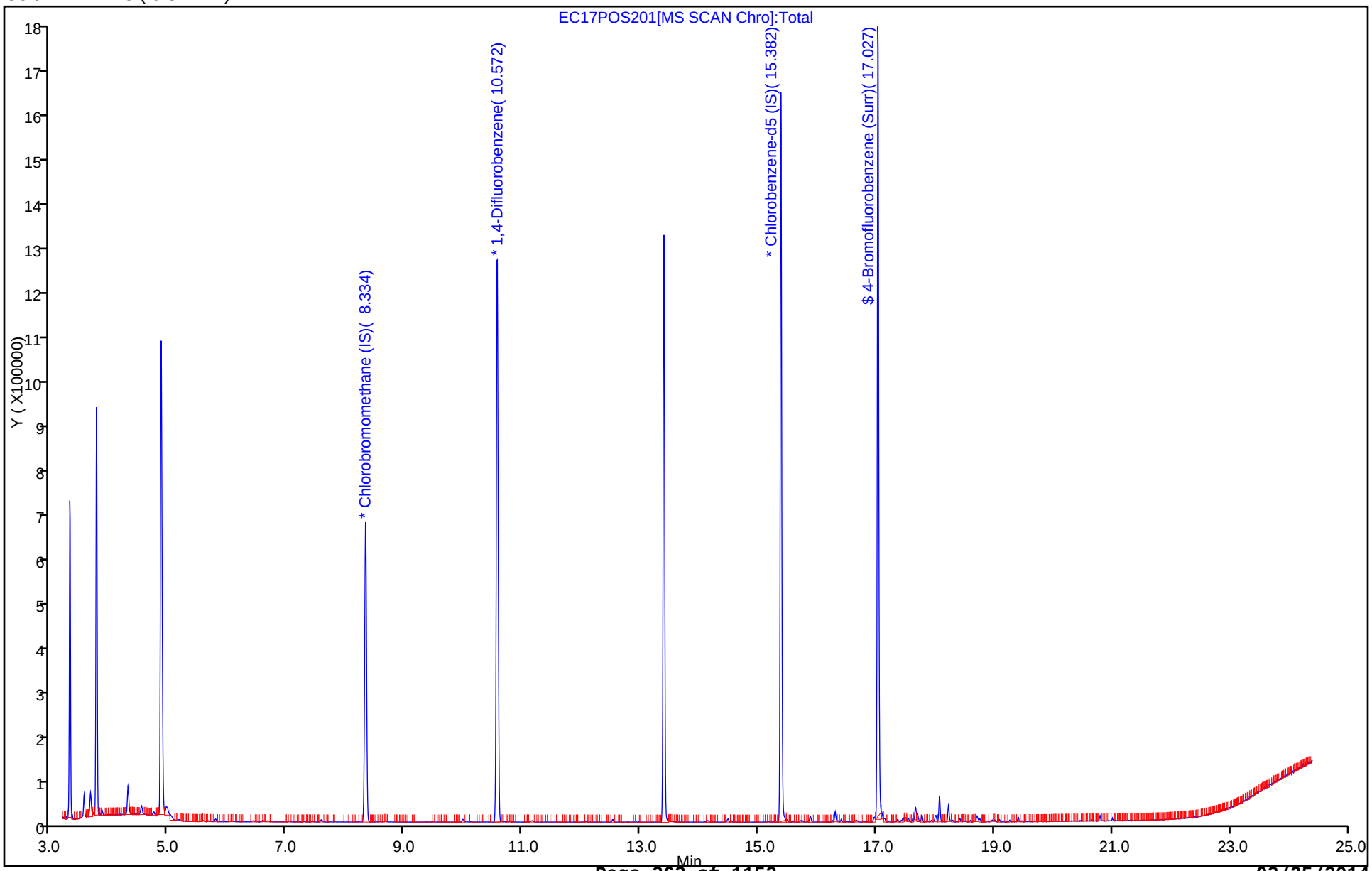
Report Date: 18-Mar-2014 12:34:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS201.D

Injection Date:	18-Mar-2014 06:03:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7	Worklist Smp#:	22
Client ID:	PCV-IA3-B13				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



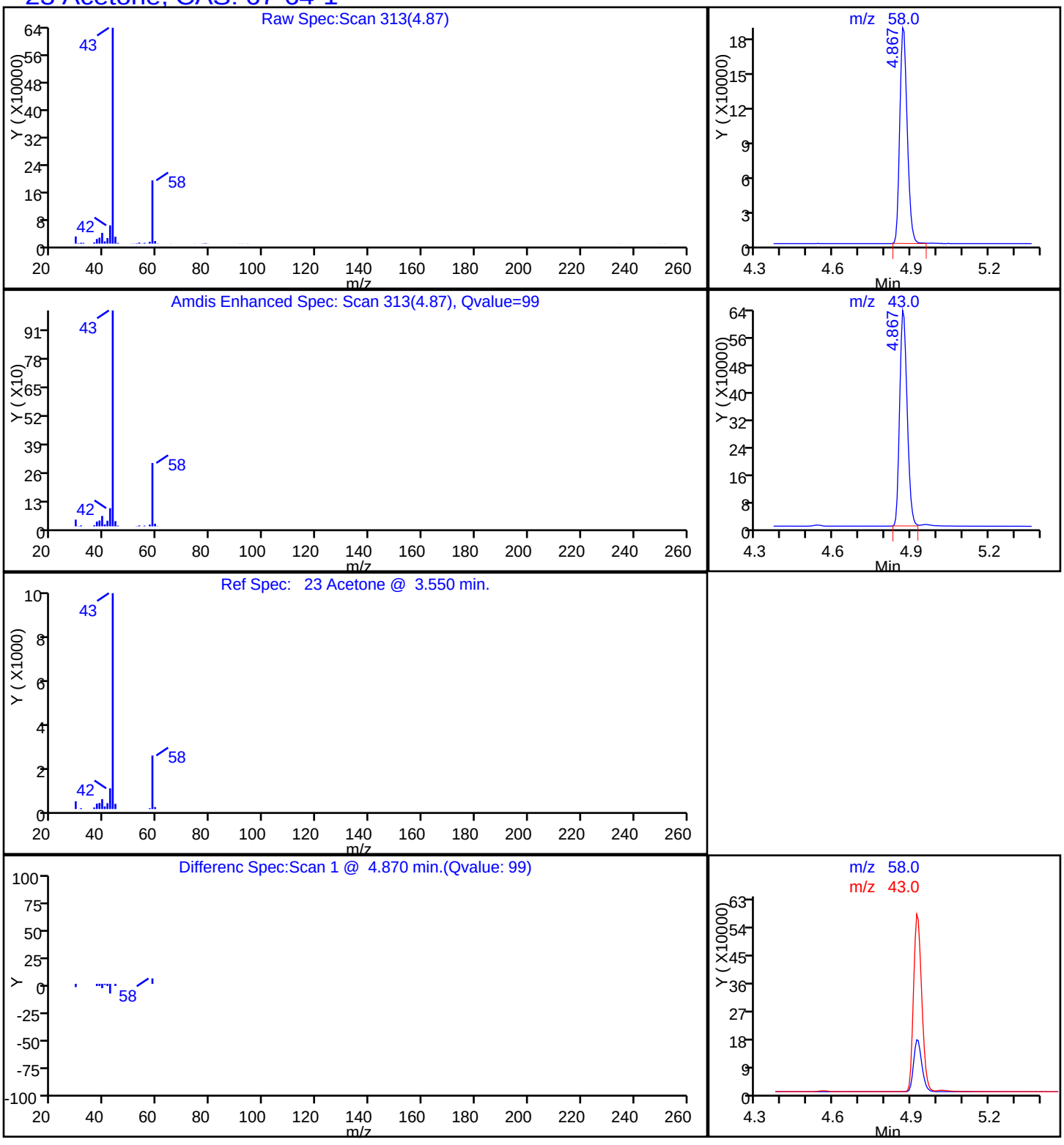
Report Date: 18-Mar-2014 12:34:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS201.D

Injection Date:	18-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	060487	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



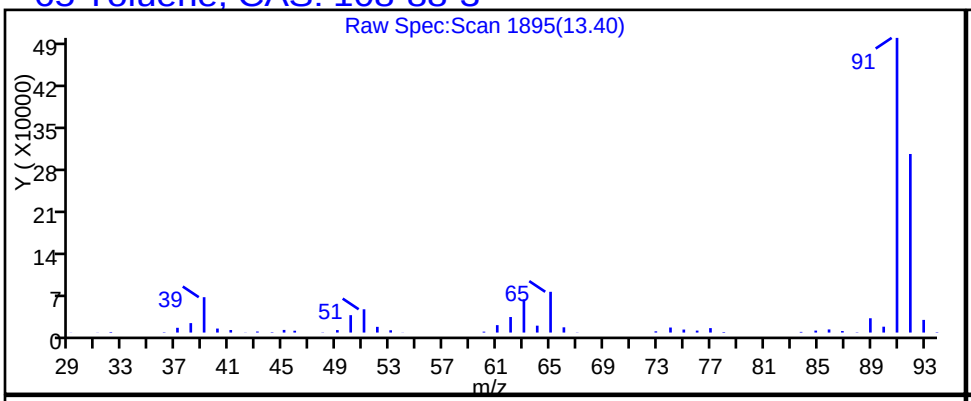
Report Date: 18-Mar-2014 12:34:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

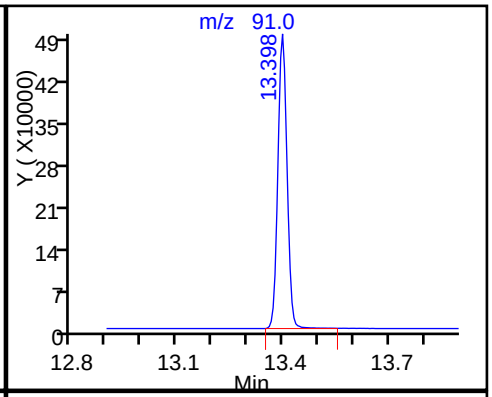
TestAmerica Knoxville

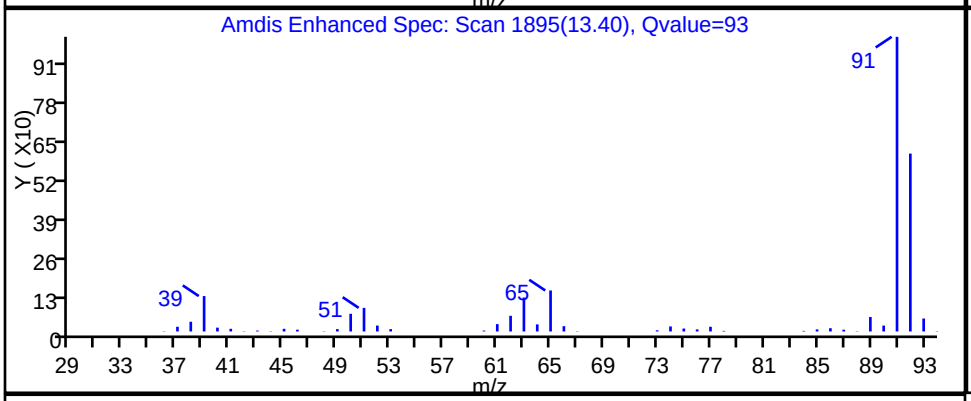
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS201.D

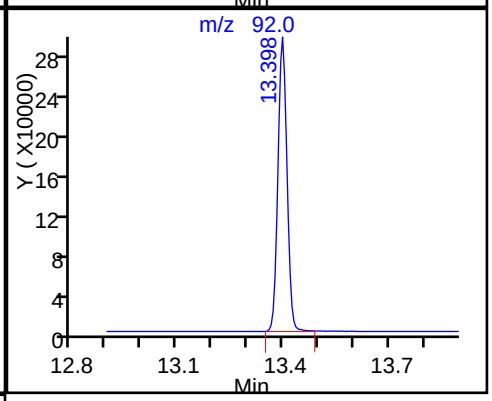
Injection Date:	18-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-7	Lab Sample ID:	140-1041-7		
Client ID:	PCV-IA3-B13				
Operator ID:	060487	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

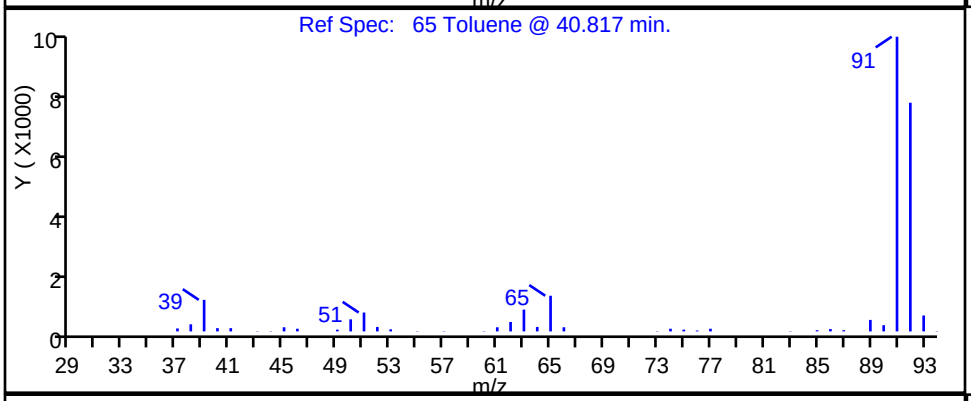
65 Toluene, CAS: 108-88-3

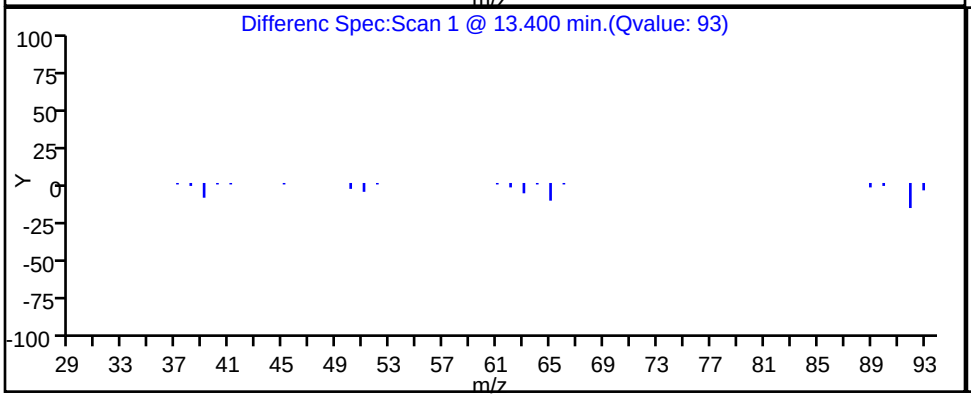


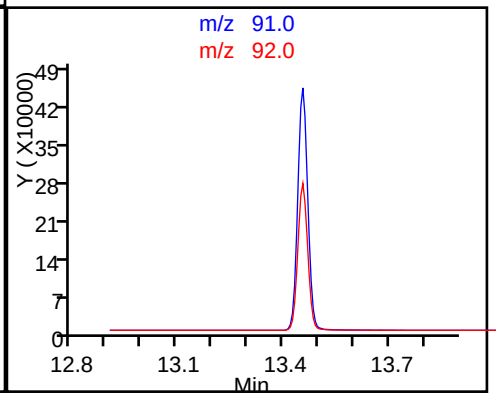












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.074	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.069	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.049	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.60	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.66		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.11	J	0.50	0.045
67-64-1	Acetone	58.08	7.2		5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.063	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.43	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	14		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.057	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.18	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.067	J	0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.076	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.60		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.57	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.23	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	2.0	0.18
67-64-1	Acetone	58.08	17		12	3.3
71-43-2	Benzene	78.11	0.70		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.89	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	26		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.77	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.29	J	0.87	0.26
115-07-1	Propene	42.08	2.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.52	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB-3 Lab Sample ID: 140-1041-8

Matrix: Air Lab File ID: EC14P108.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D
Lims ID: 140-1041-A-8 Lab Sample ID: 140-1041-8
Client ID: PCV-AMB-3
Sample Type: Client
Inject. Date: 14-Mar-2014 22:13:30 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-8
Misc. Info.: E031414,TO155,,140-0000522-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:48:37 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: liul Date: 24-Mar-2014 15:48:37

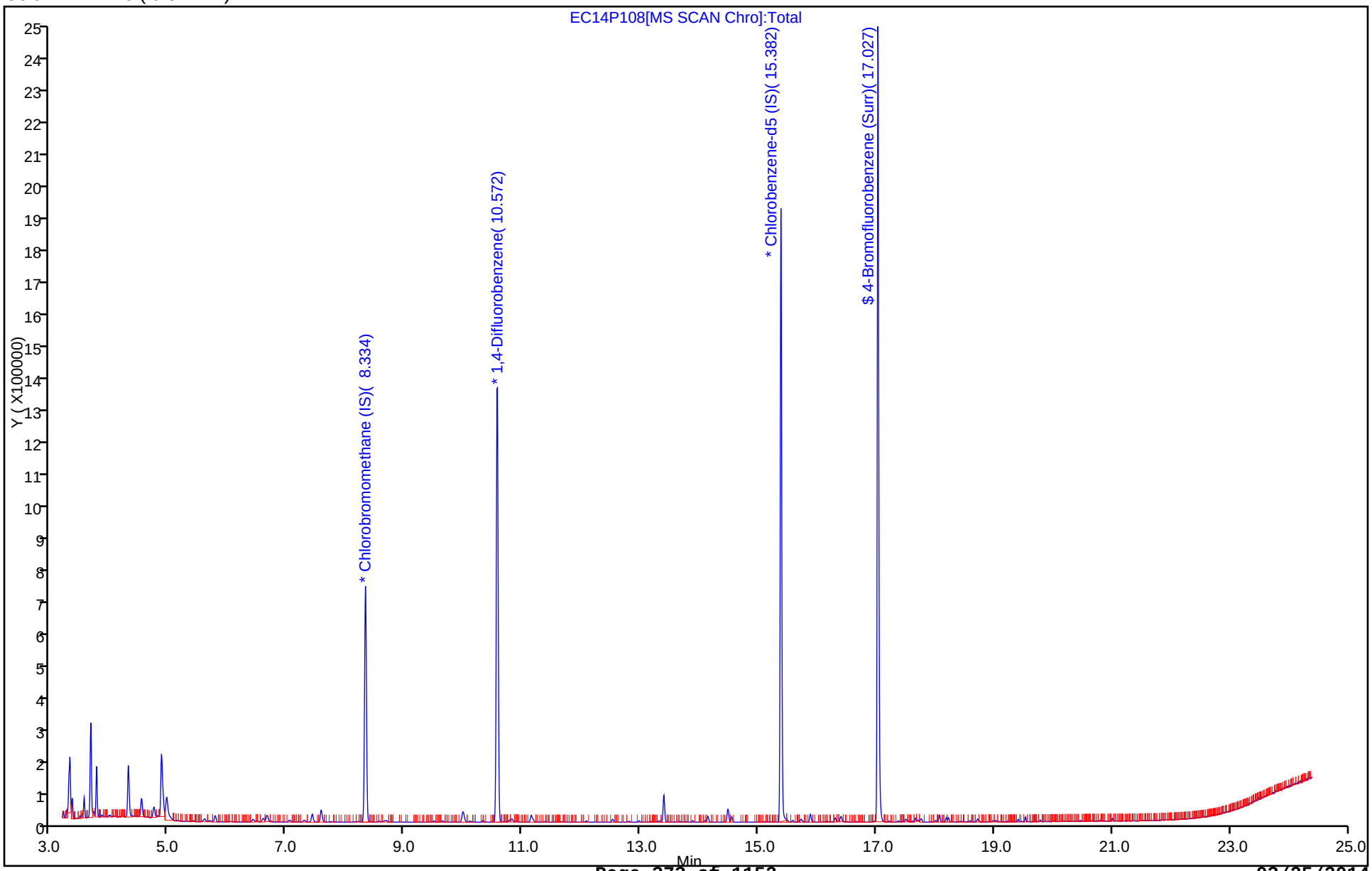
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	80	212240	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1085324	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	940007	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	847096	4.12	
7 Propene	41	3.319	3.314	0.005	80	26816	0.5023	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	100	43205	0.1840	
9 Chloromethane	52	3.530	3.530	0.0	98	3225	0.1721	
17 Ethanol	31	4.312	4.317	-0.005	98	116637	5.49	
19 2-Methylbutane	43	4.538	4.538	0.0	88	19608	0.2638	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	93	25258	0.1073	
23 Acetone	58	4.872	4.883	-0.011	93	92131	2.87	
24 Isopropyl alcohol	45	4.969	4.975	-0.006	89	40532	0.4897	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	72	4336	0.0297	
31 Methylene Chloride	84	5.784	5.795	-0.011	80	9591	0.1581	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	93	8306	0.2391	
40 Hexane	56	7.585	7.590	-0.005	51	3389	0.0600	
48 Benzene	78	9.995	9.995	0.0	91	19168	0.0878	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	87	5297	0.0252	
53 Isooctane	57	10.782	10.788	-0.006	61	6618	0.0196	
54 n-Heptane	71	11.176	11.182	-0.006	51	1870	0.0226	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	81	5587	0.0434	
65 Toluene	91	13.398	13.403	-0.005	92	59989	0.2382	
73 Tetrachloroethene	129	14.546	14.552	-0.006	80	3271	0.0305	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	94	18112	0.0714	
82 o-Xylene	91	16.407	16.412	-0.005	71	7353	0.0268	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	61	7928	0.0275	

Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8	Worklist Smp#:	13
Client ID:	PCV-AMB-3				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

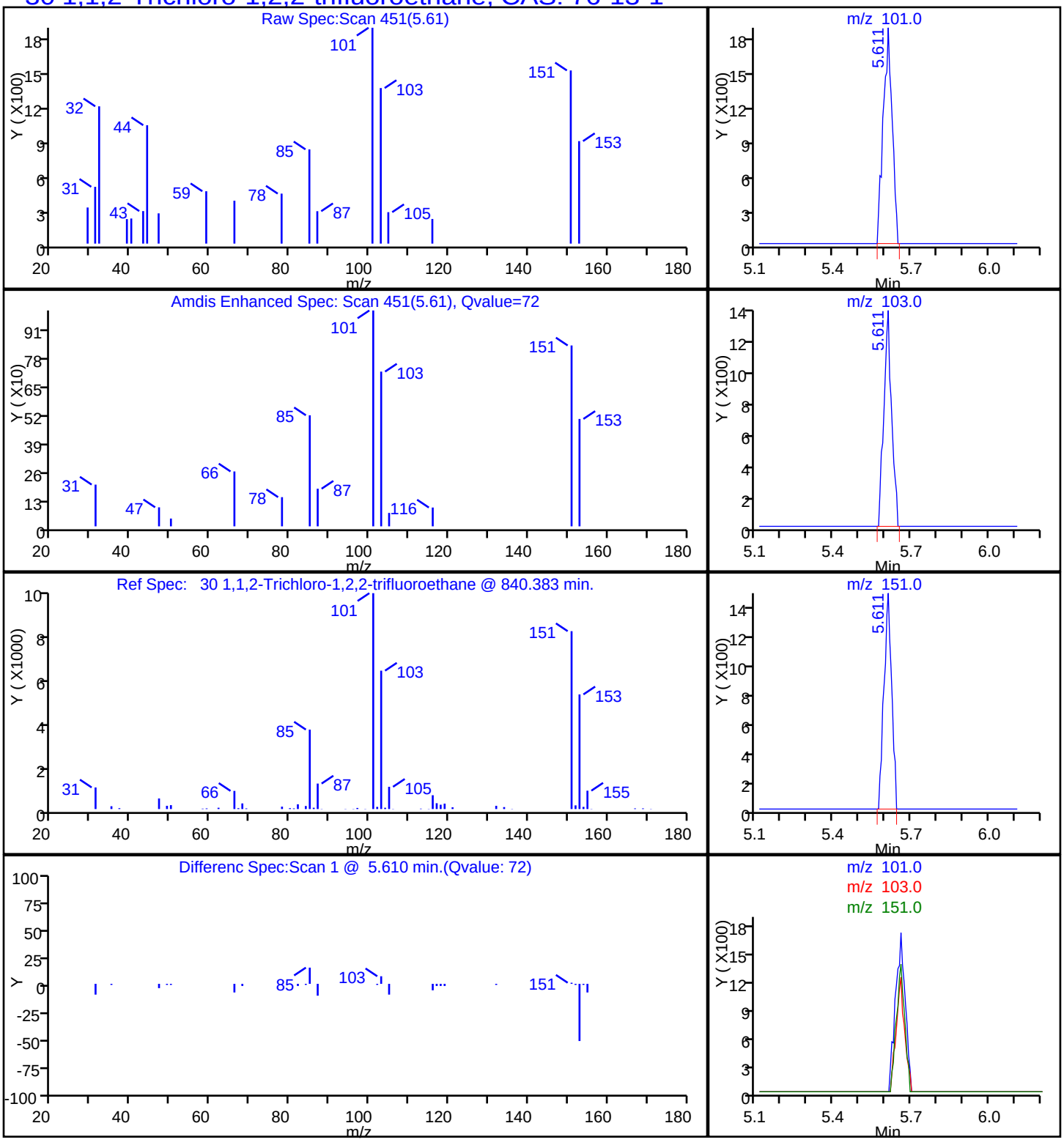
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



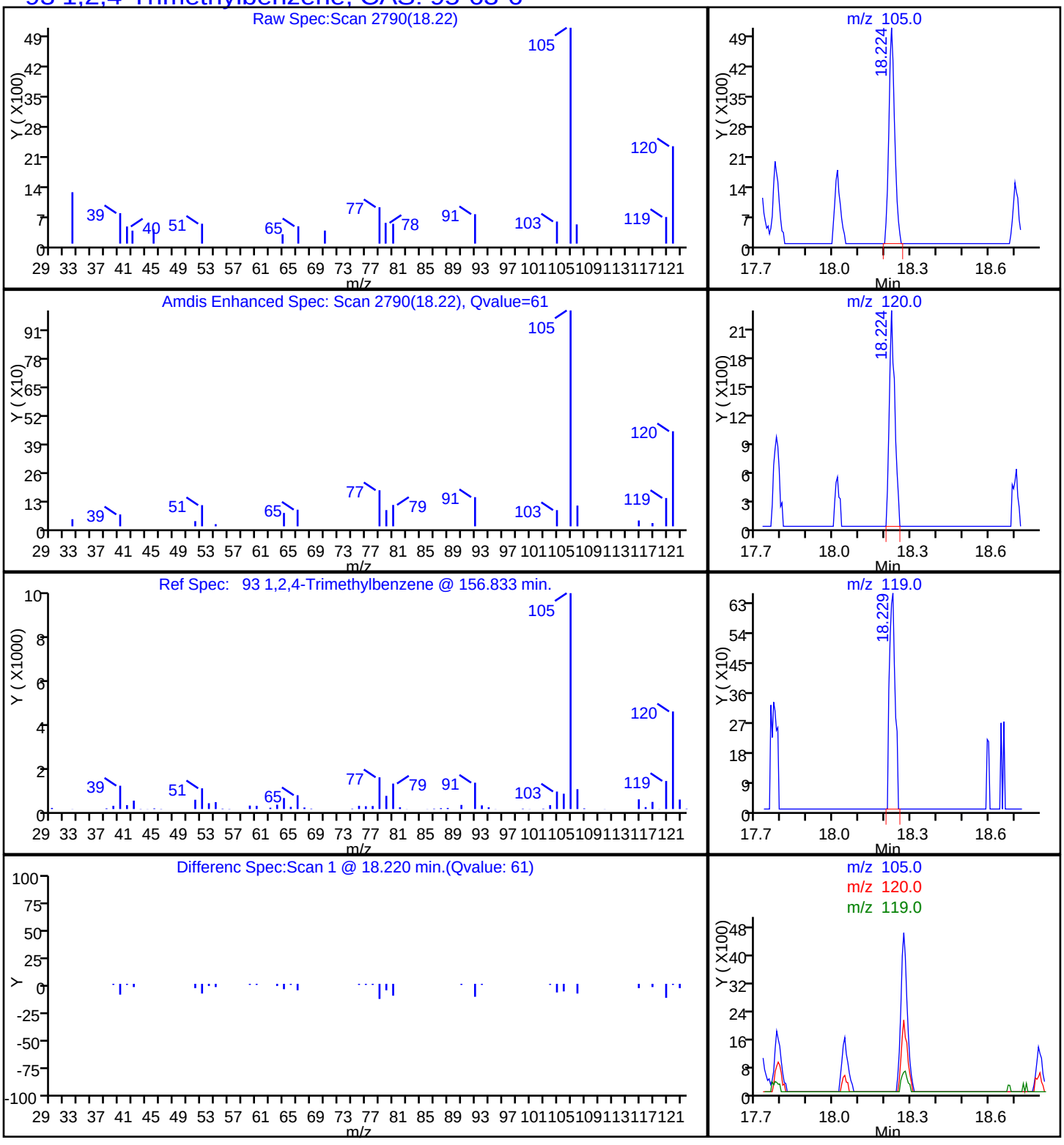
Report Date: 24-Mar-2014 15:48:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

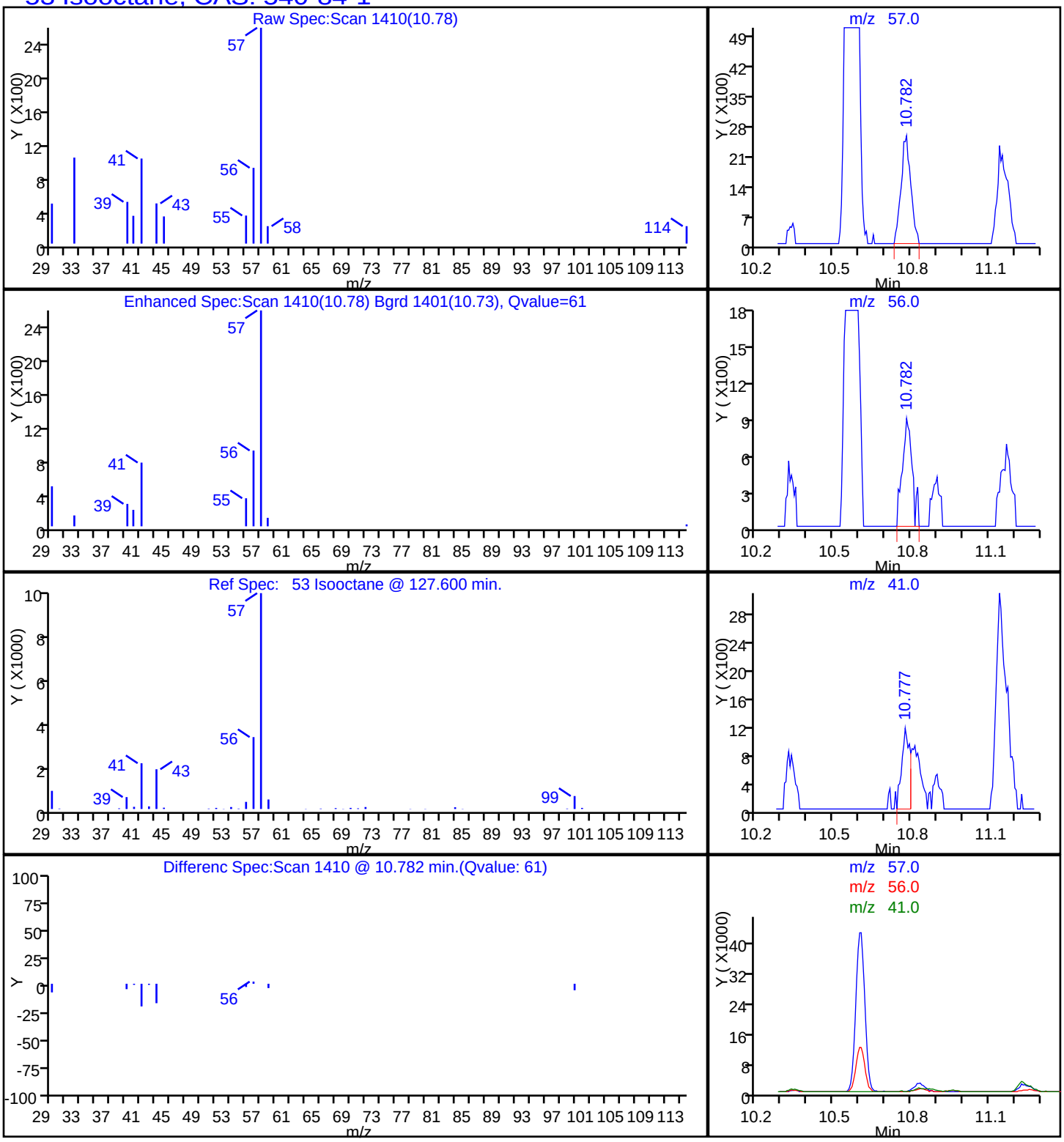


Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

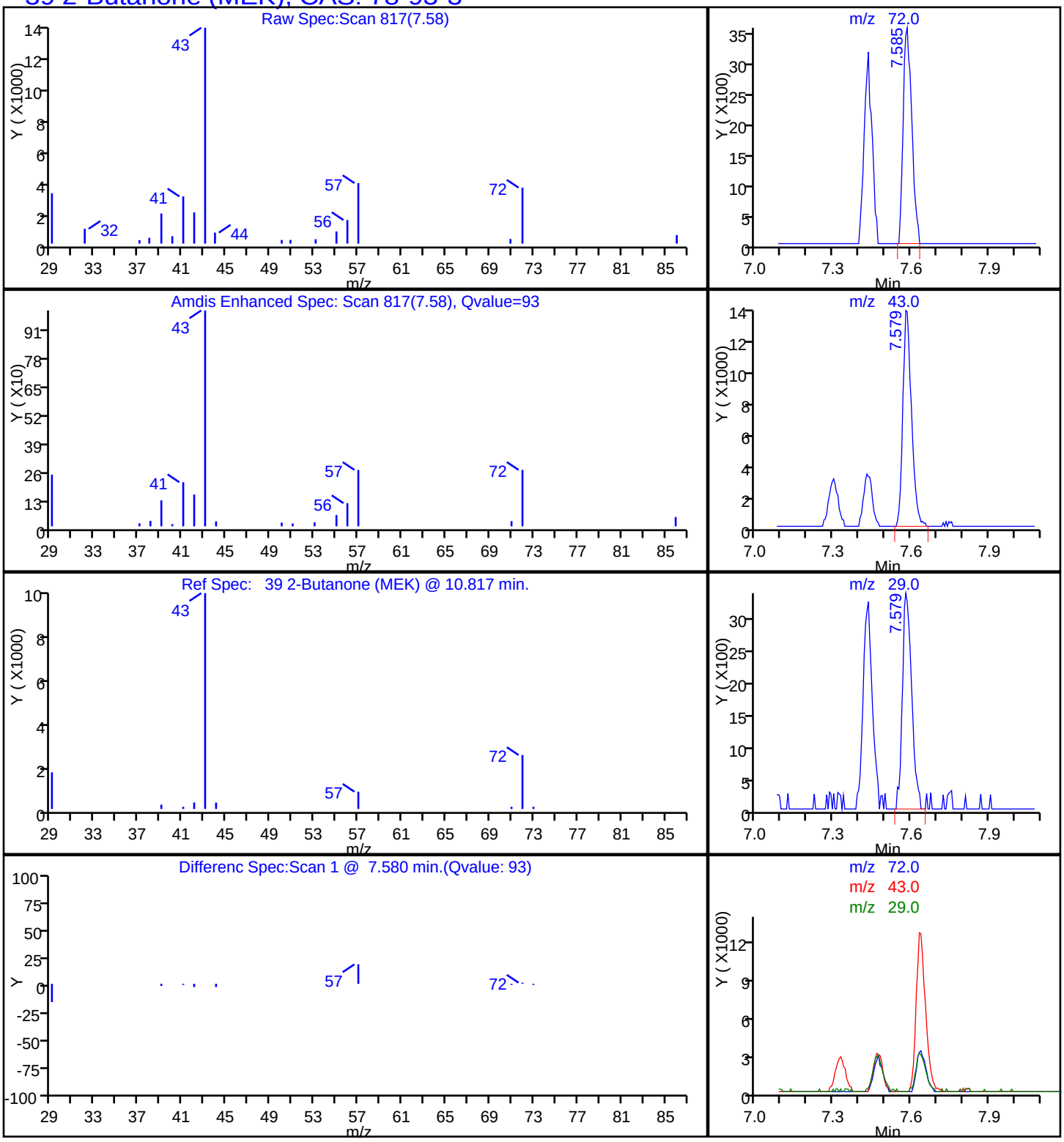
53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



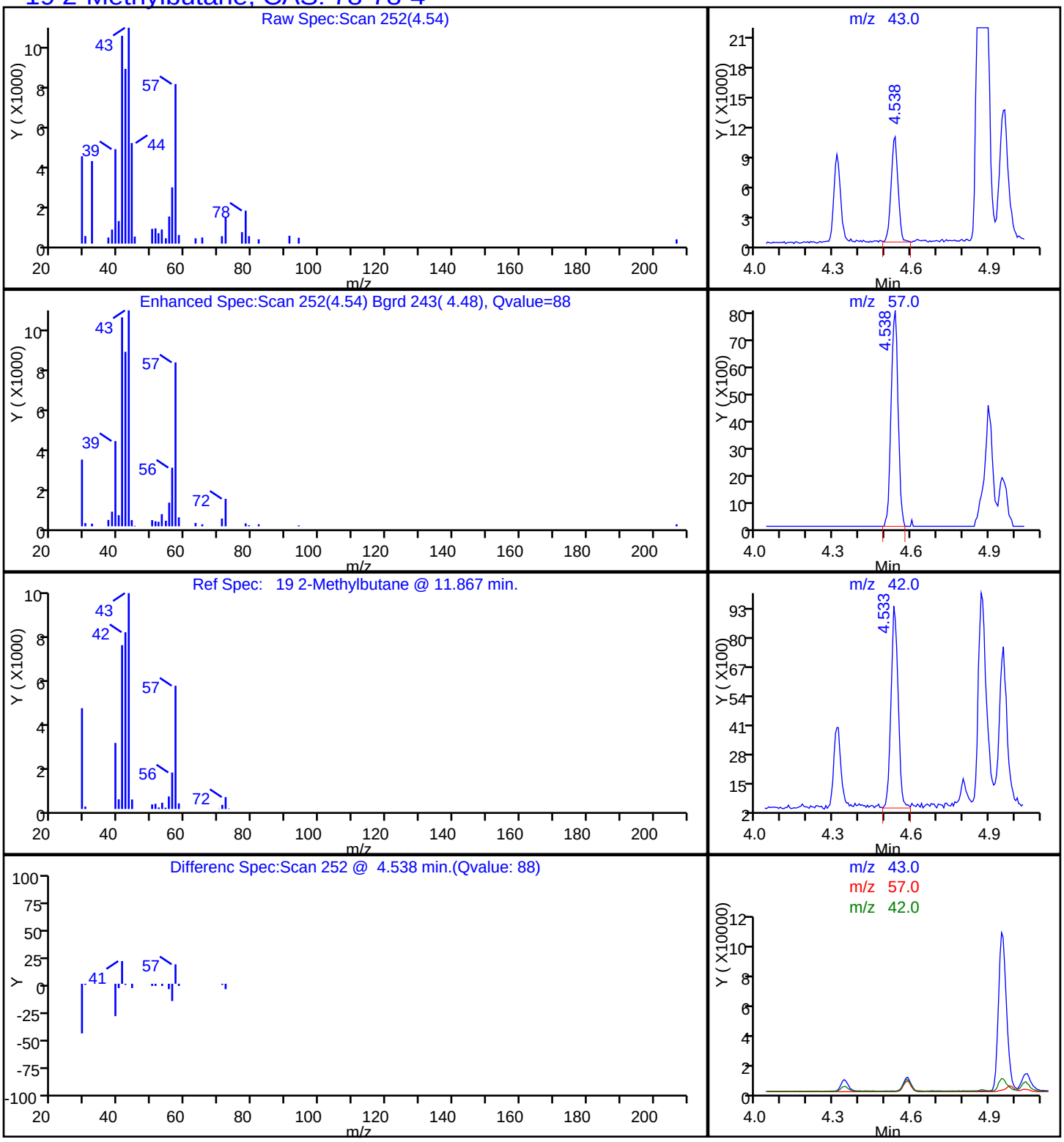
Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



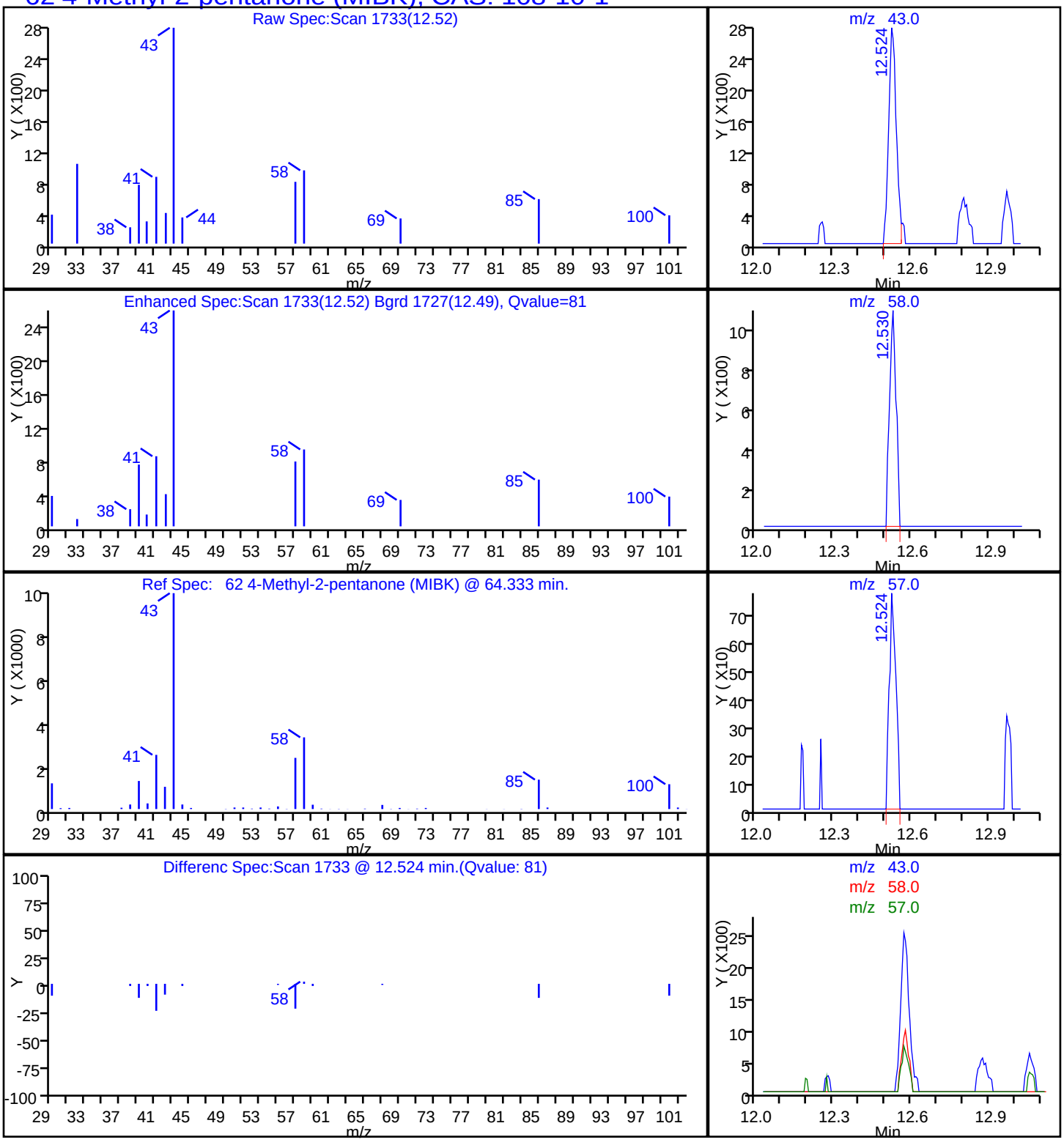
Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
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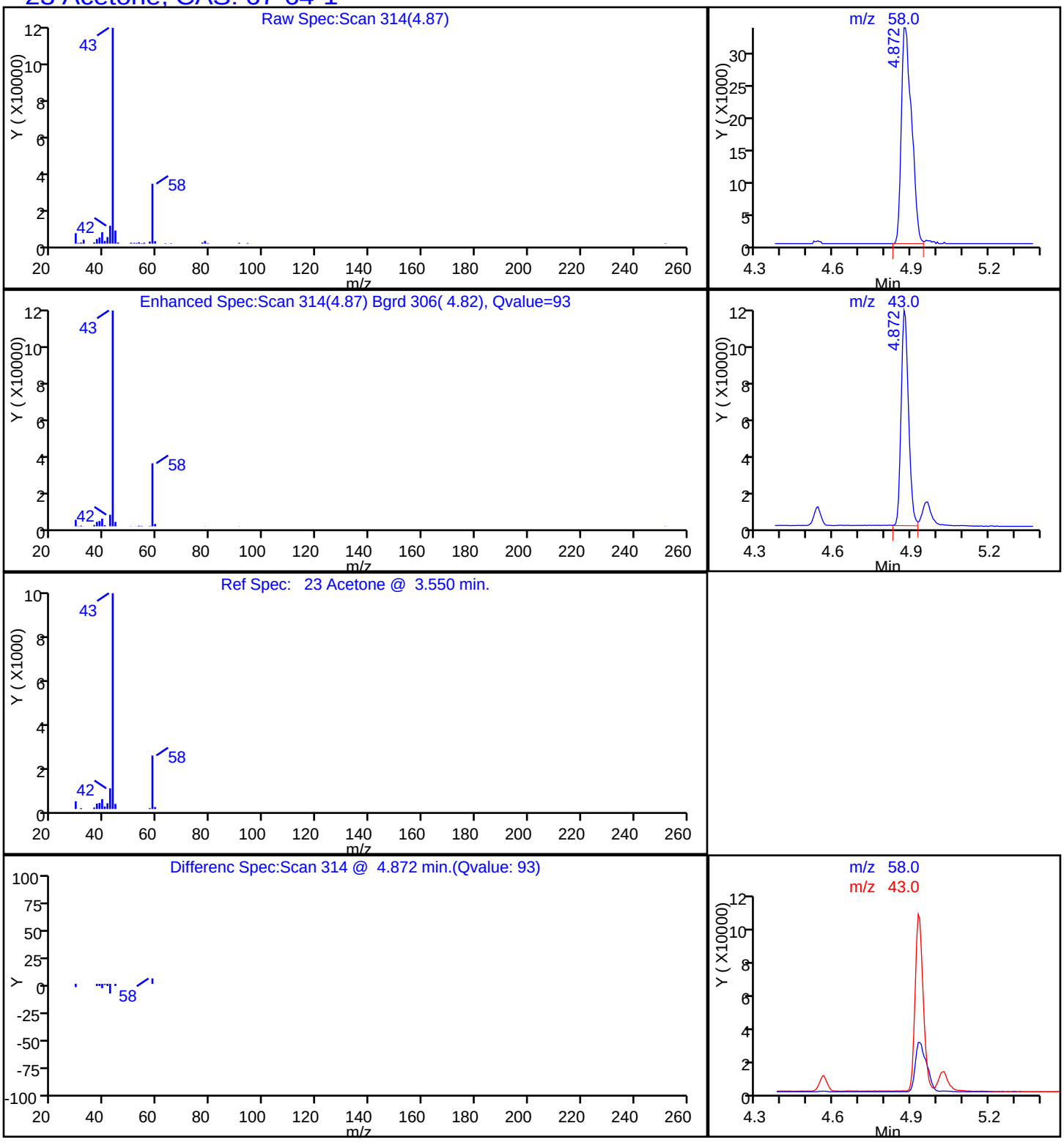
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



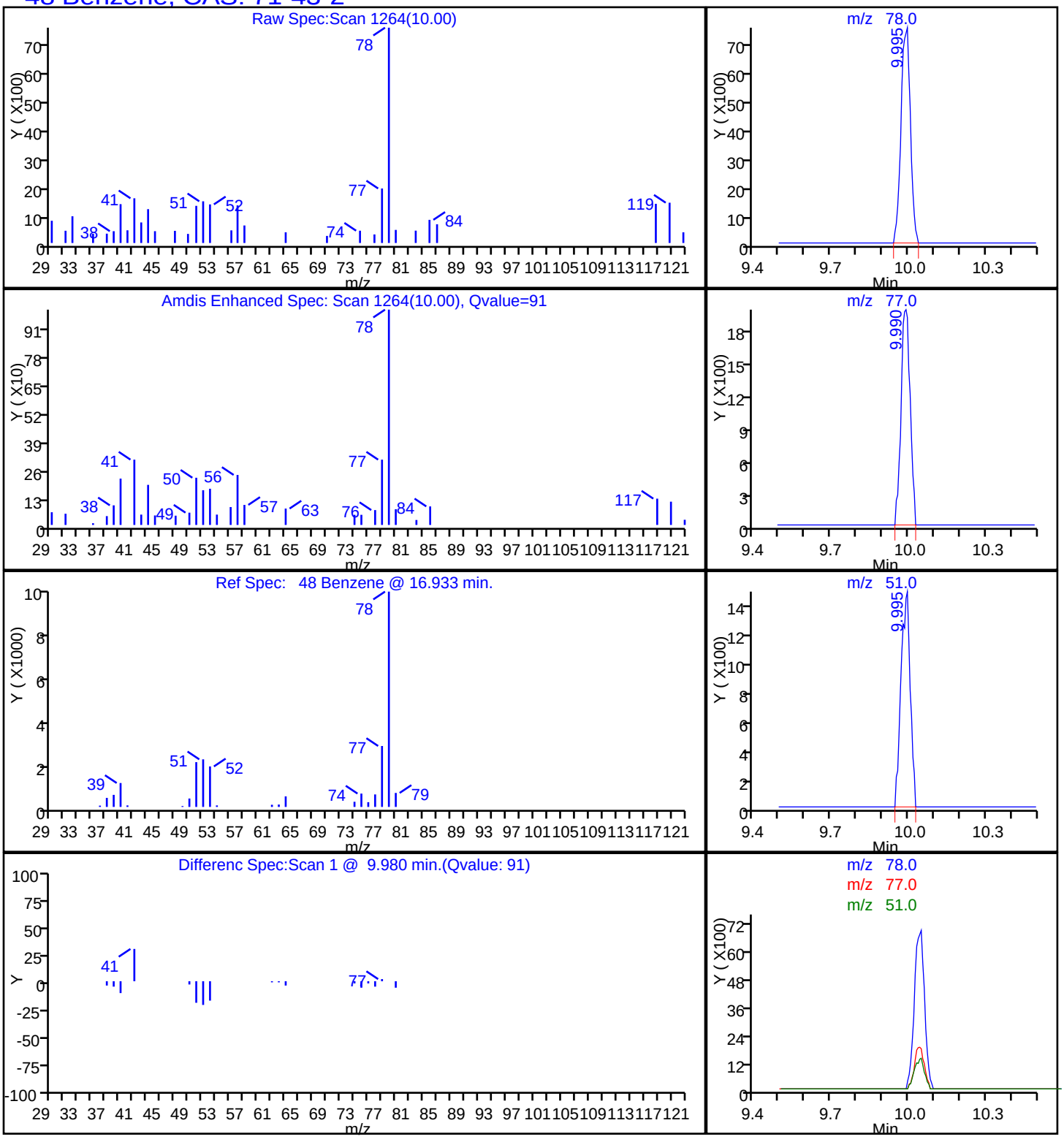
Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



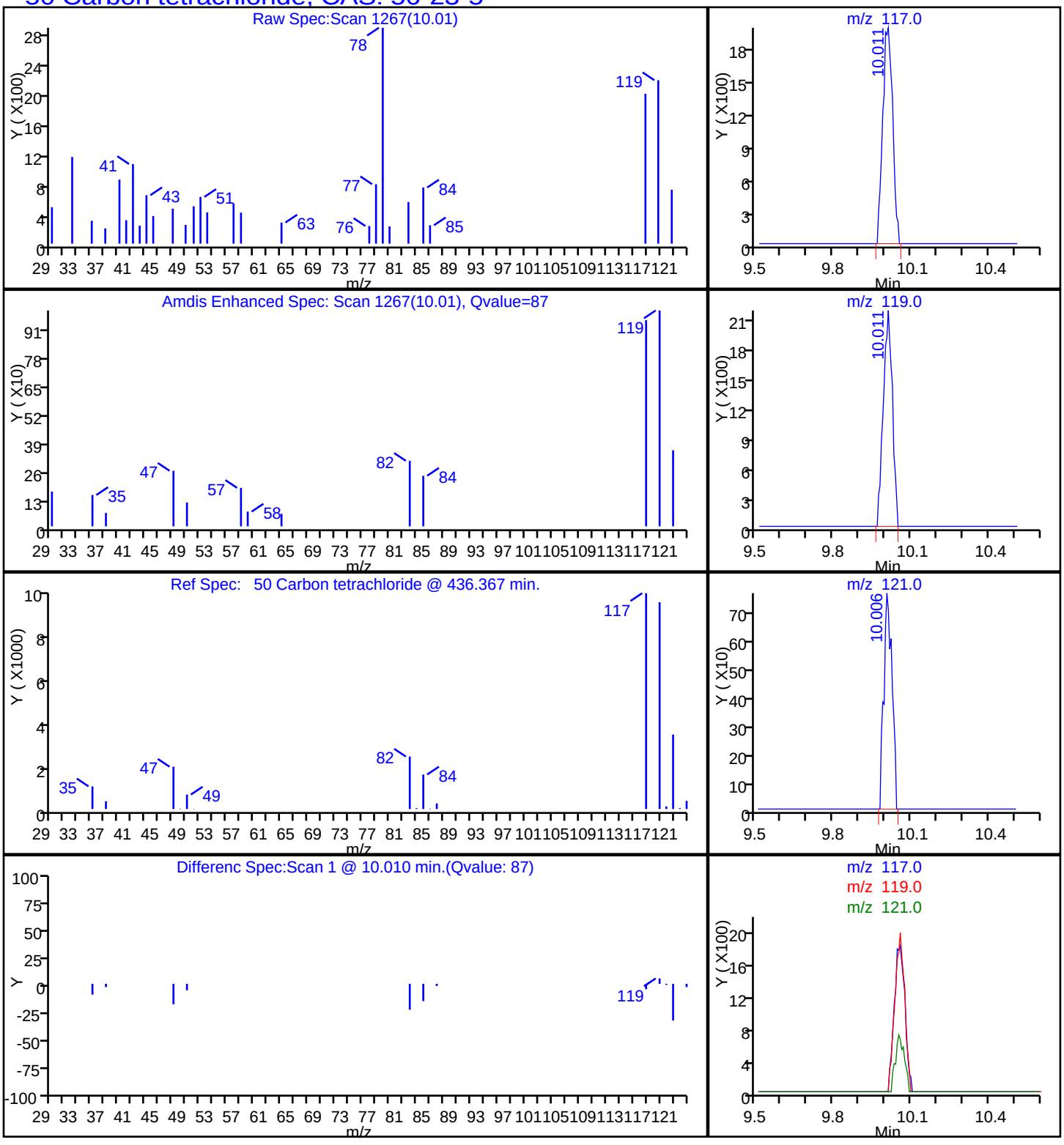
Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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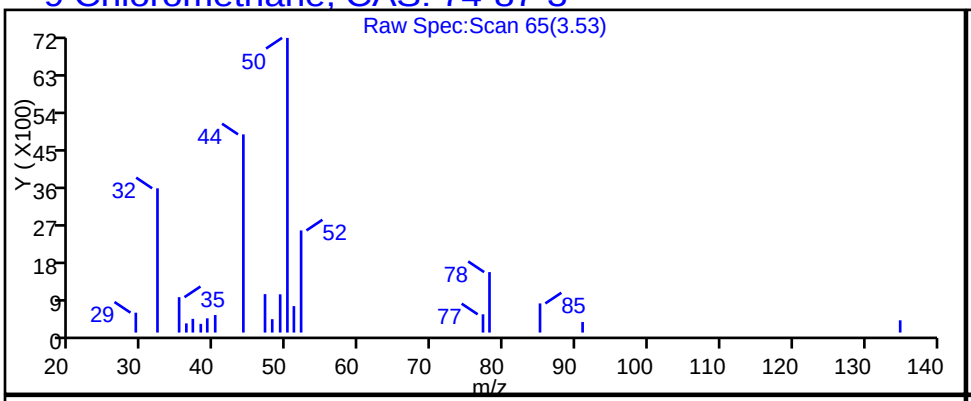
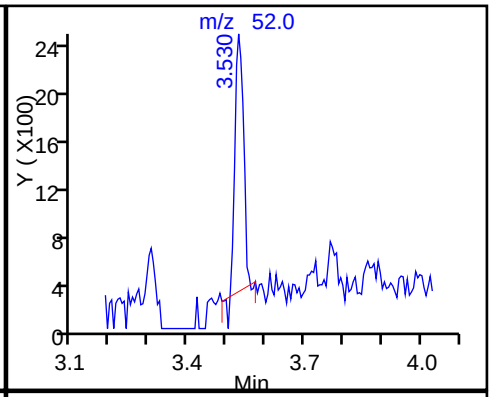
TestAmerica Knoxville

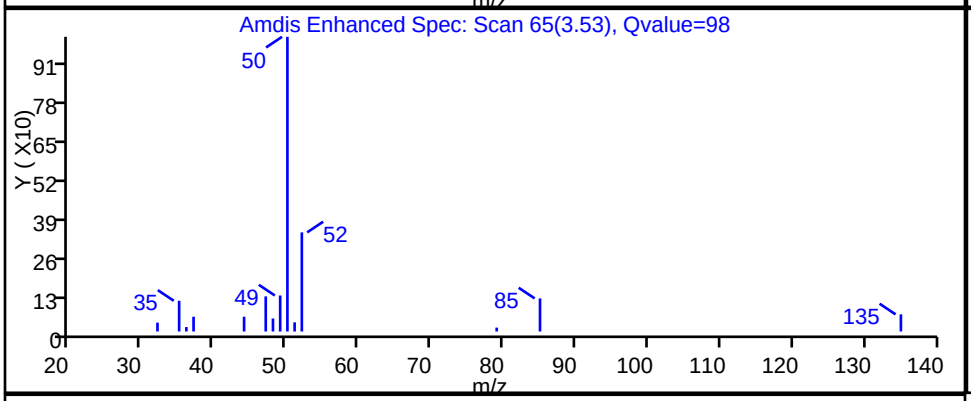
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

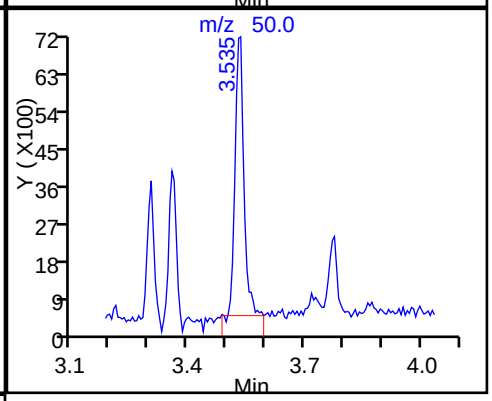
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

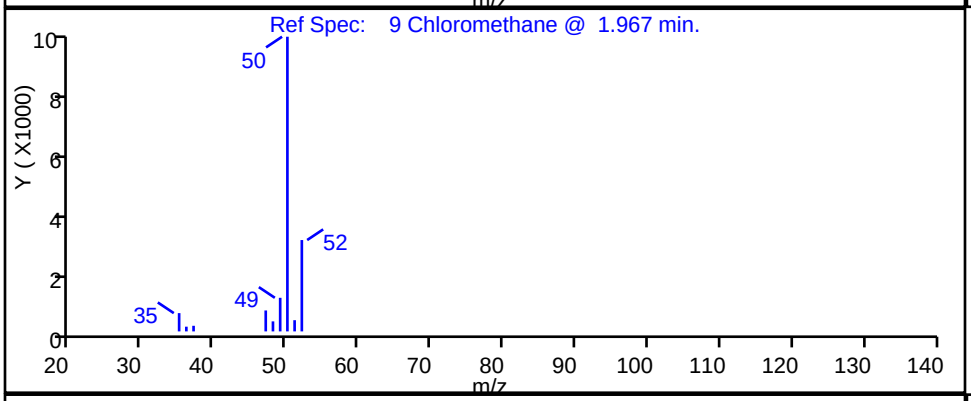
9 Chloromethane, CAS: 74-87-3

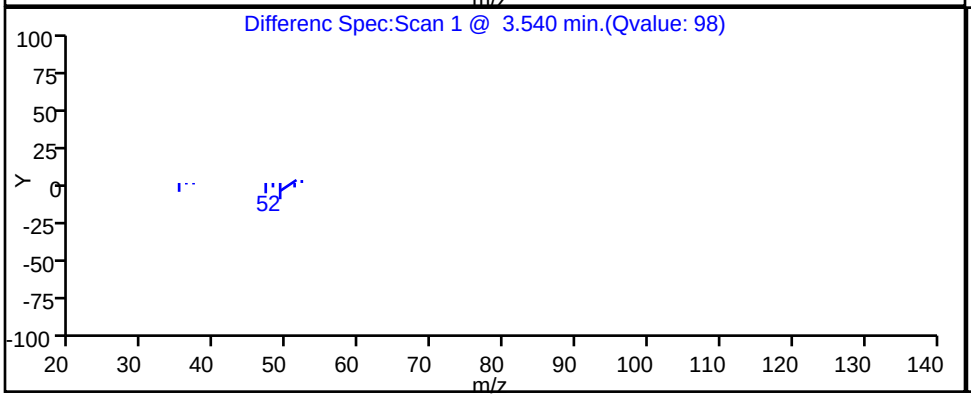


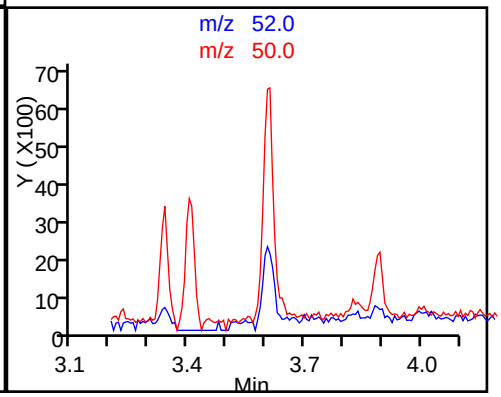












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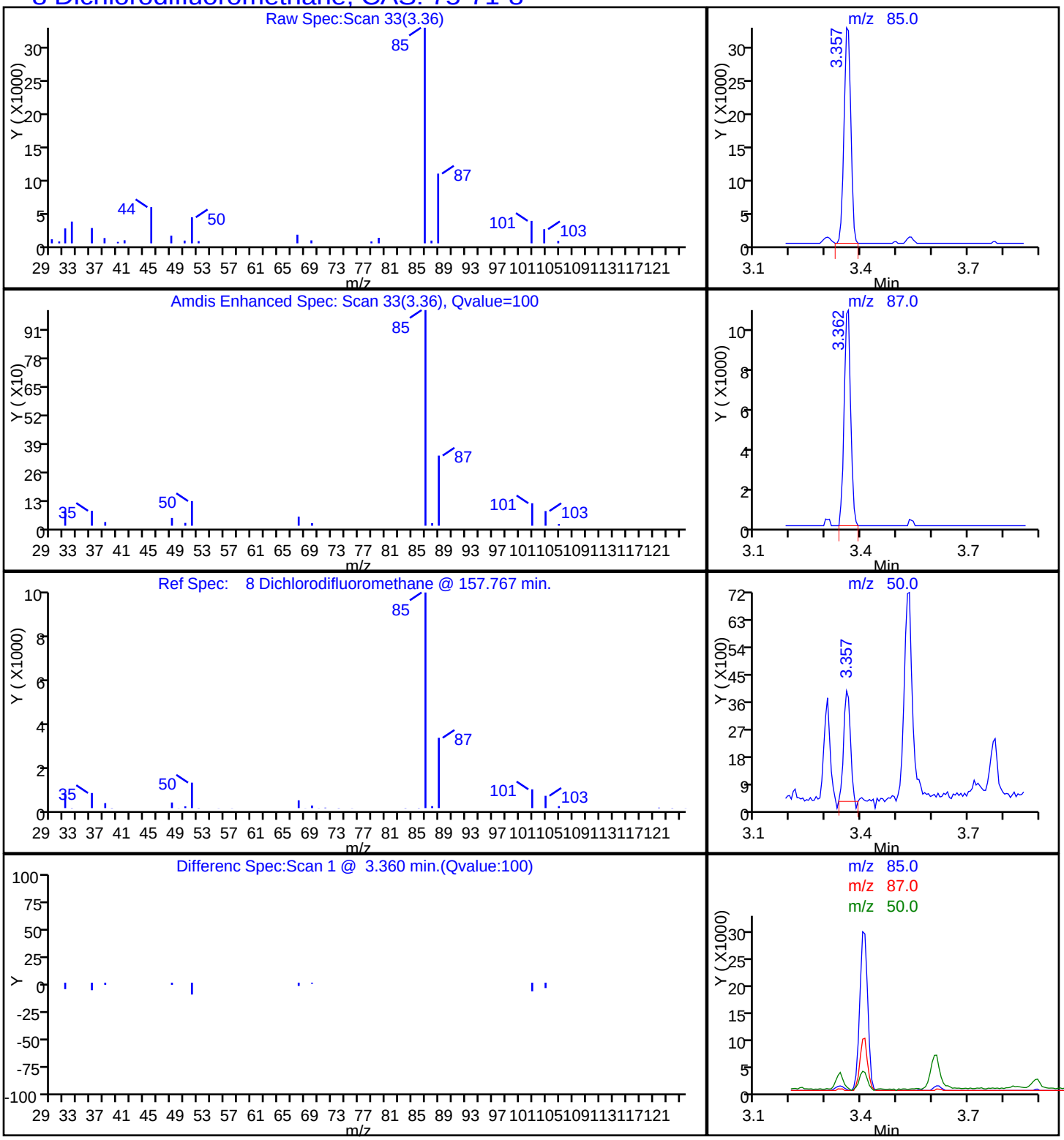
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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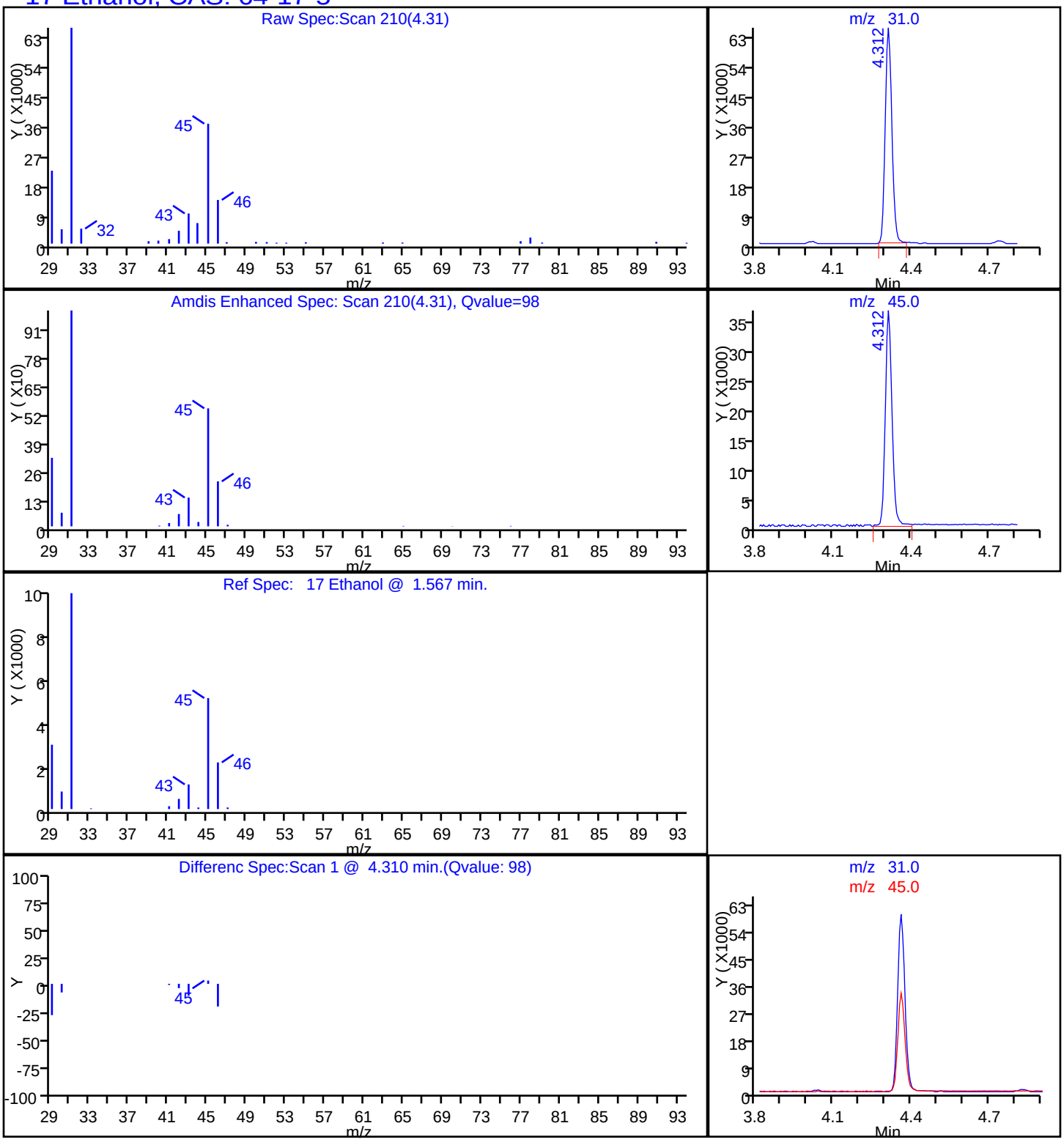
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



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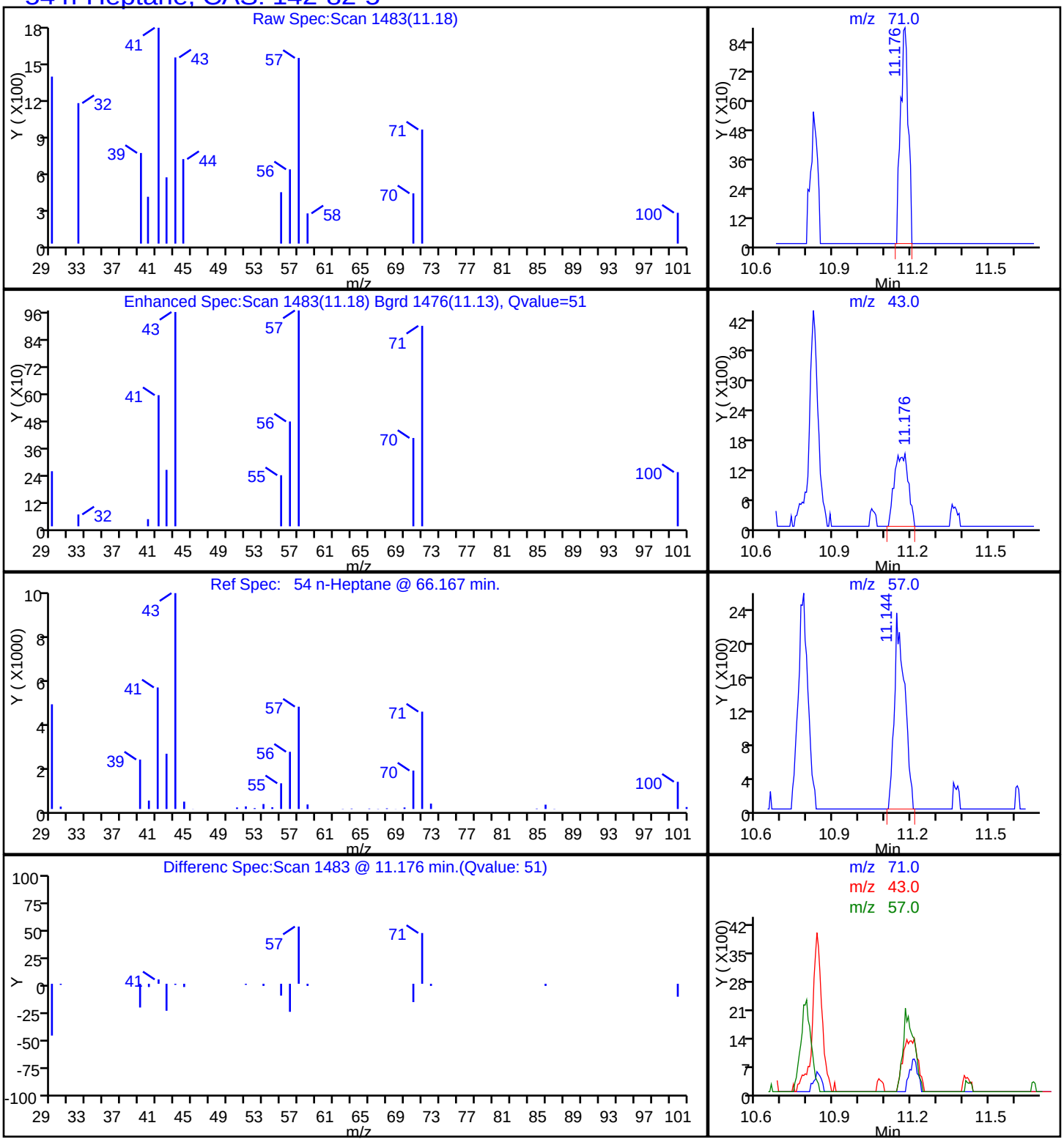
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

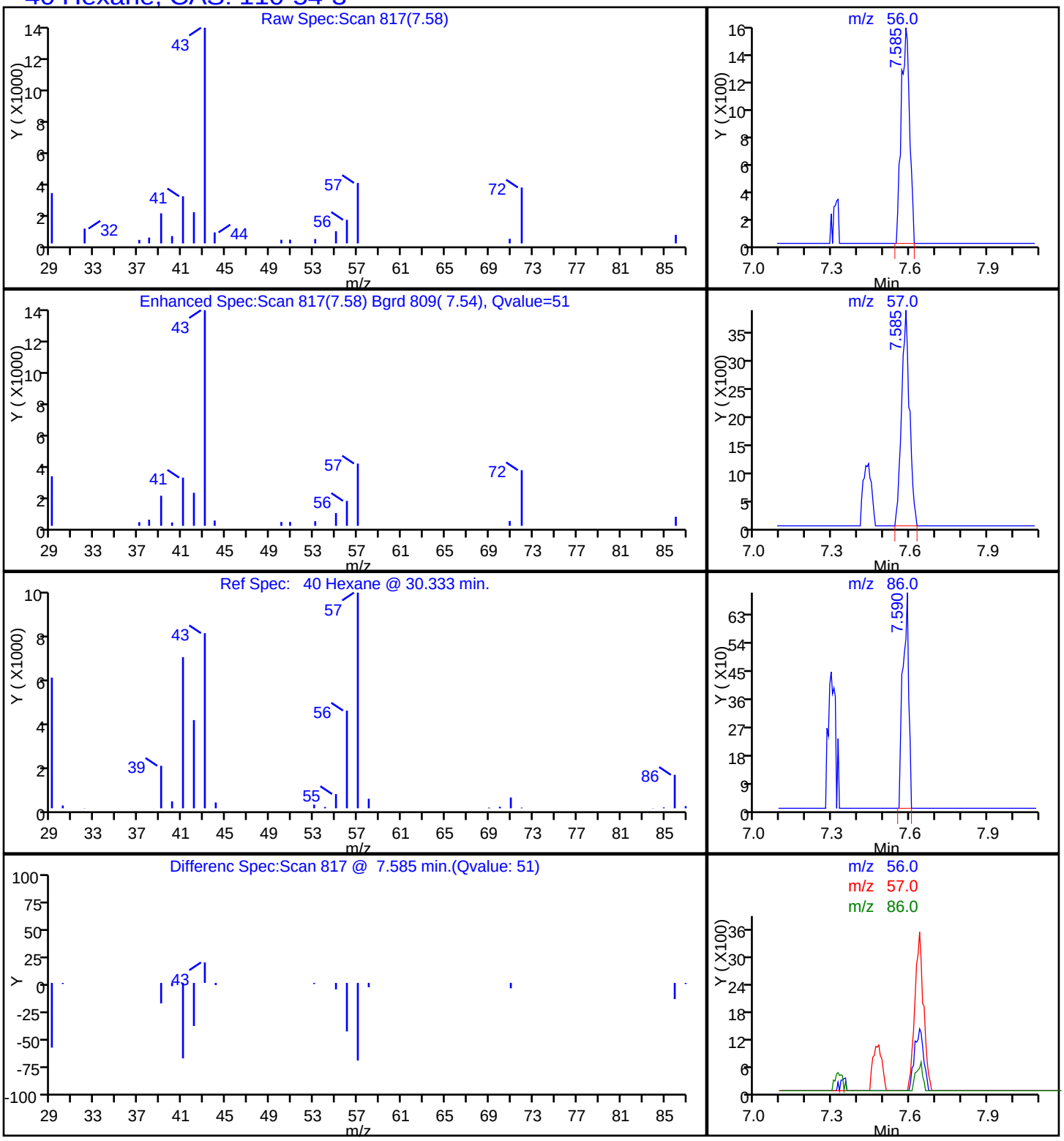


Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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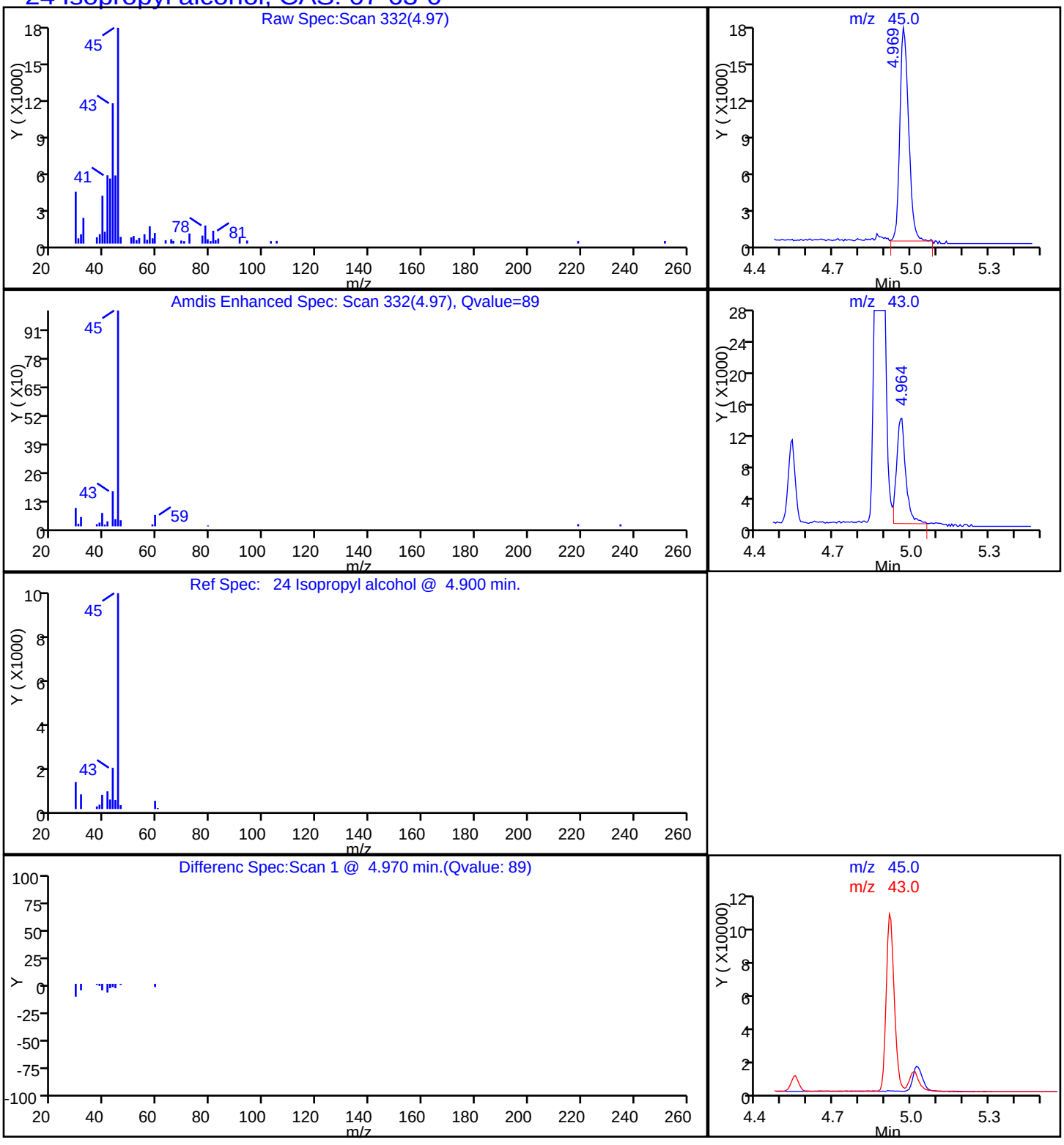
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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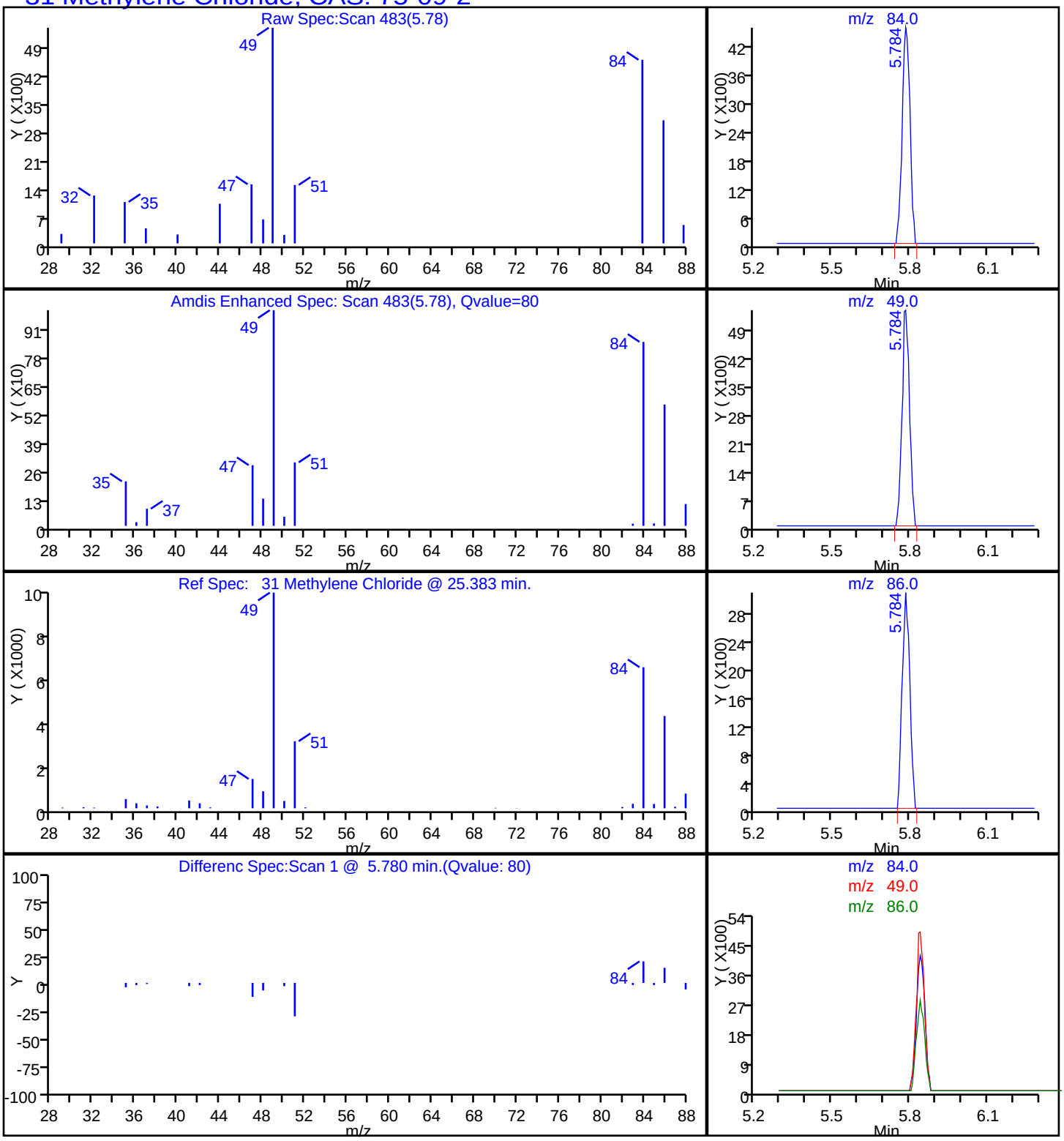
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
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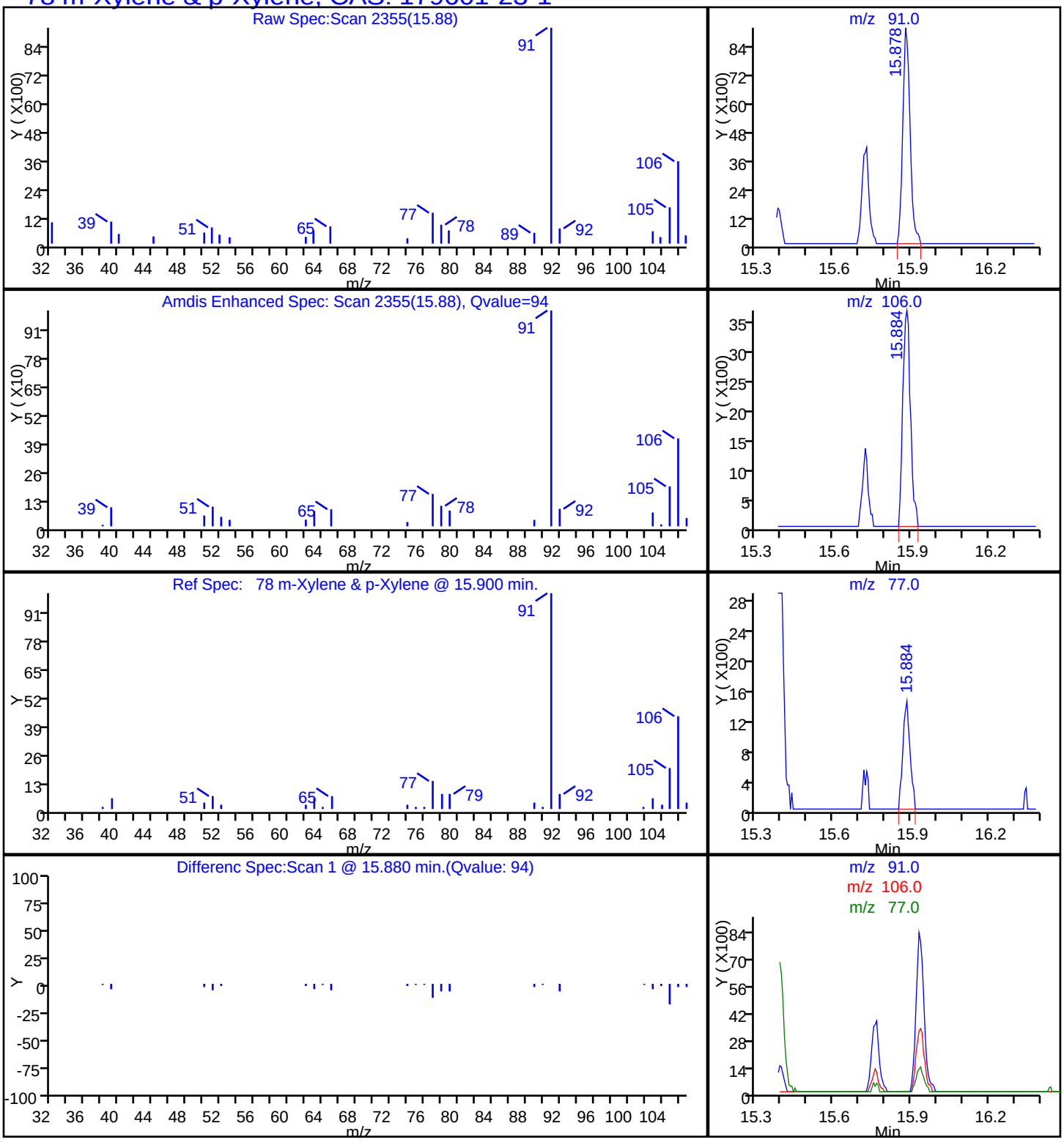
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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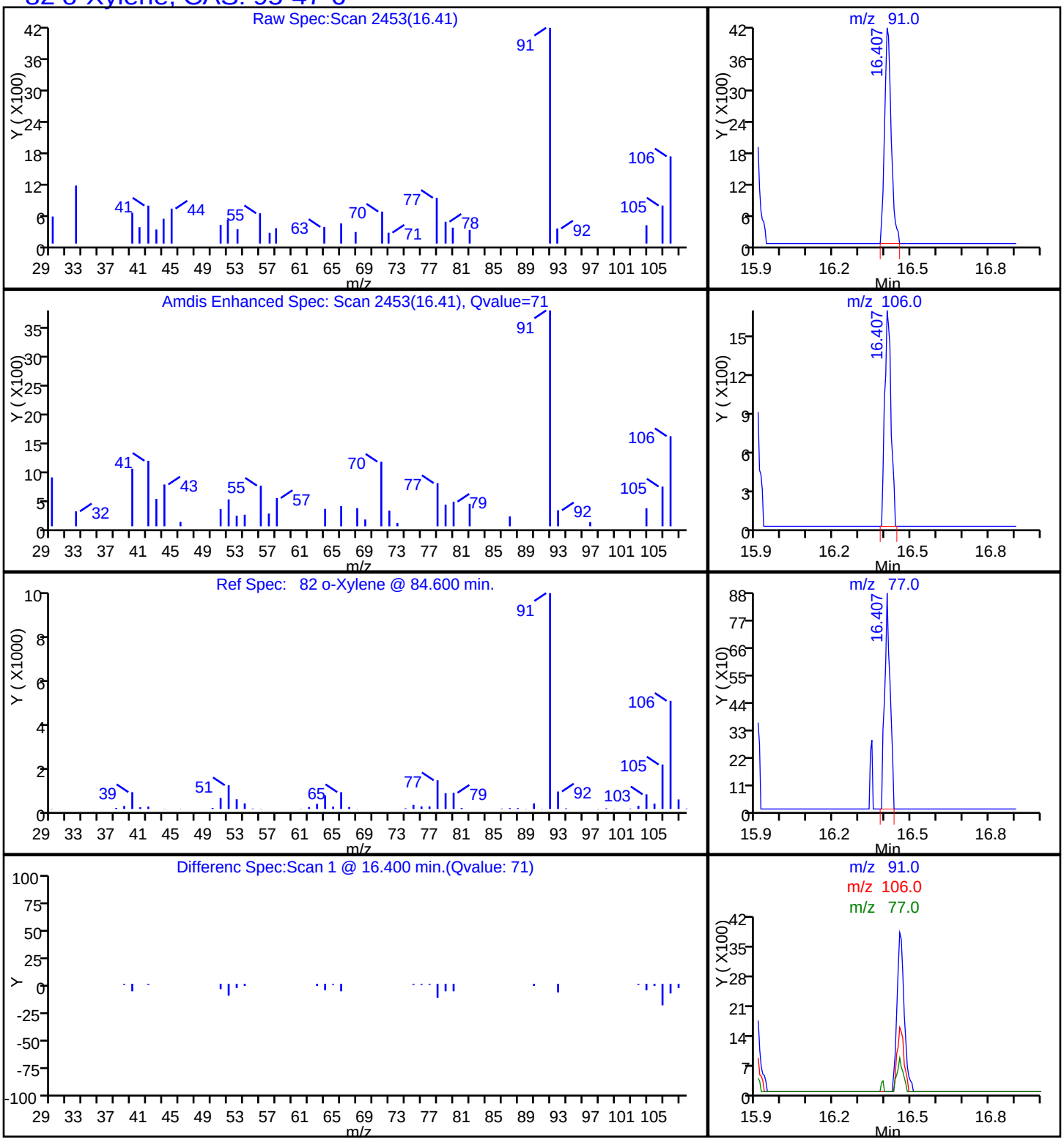
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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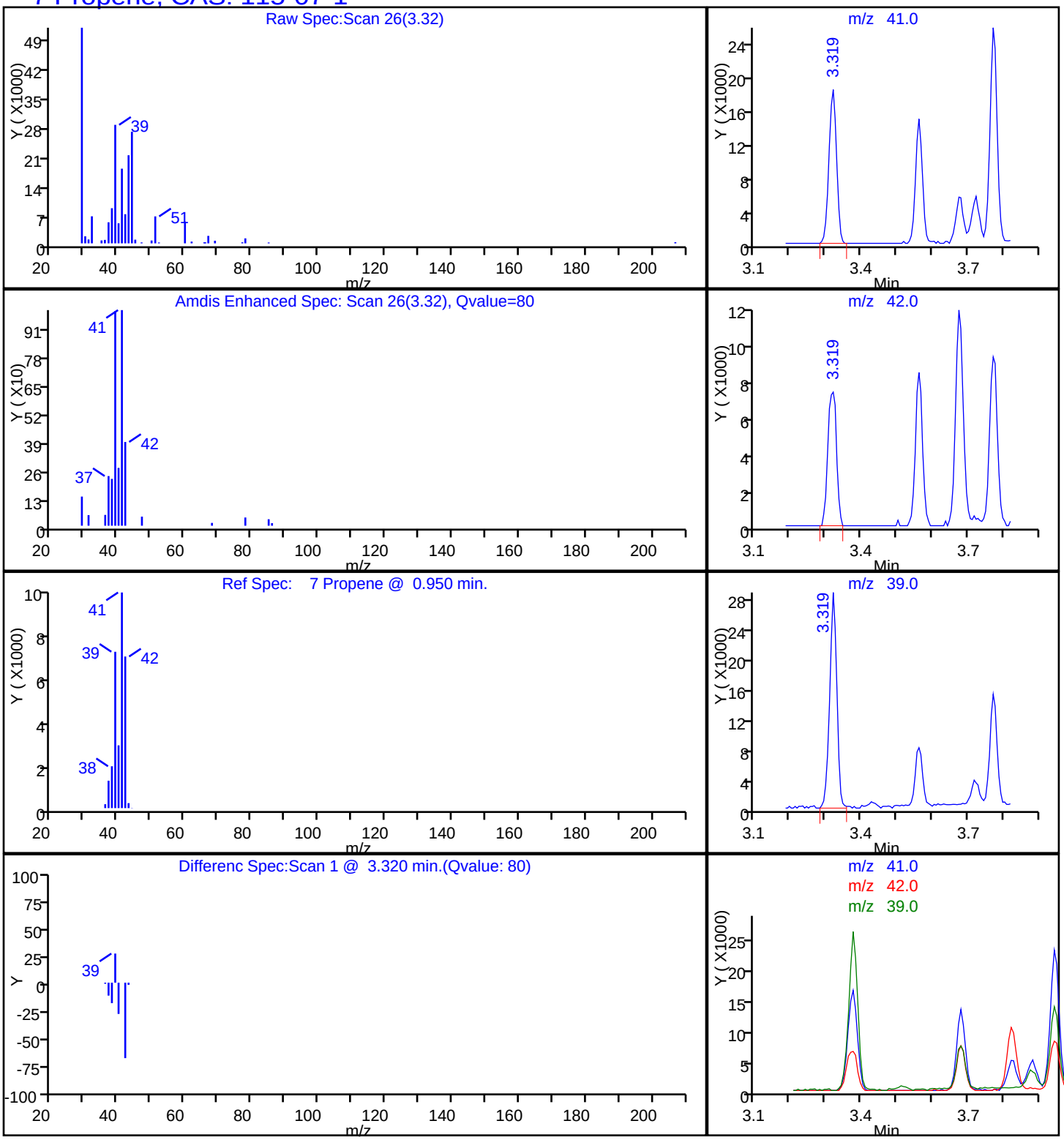
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 24-Mar-2014 15:48:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8
Client ID:	PCV-AMB-3		
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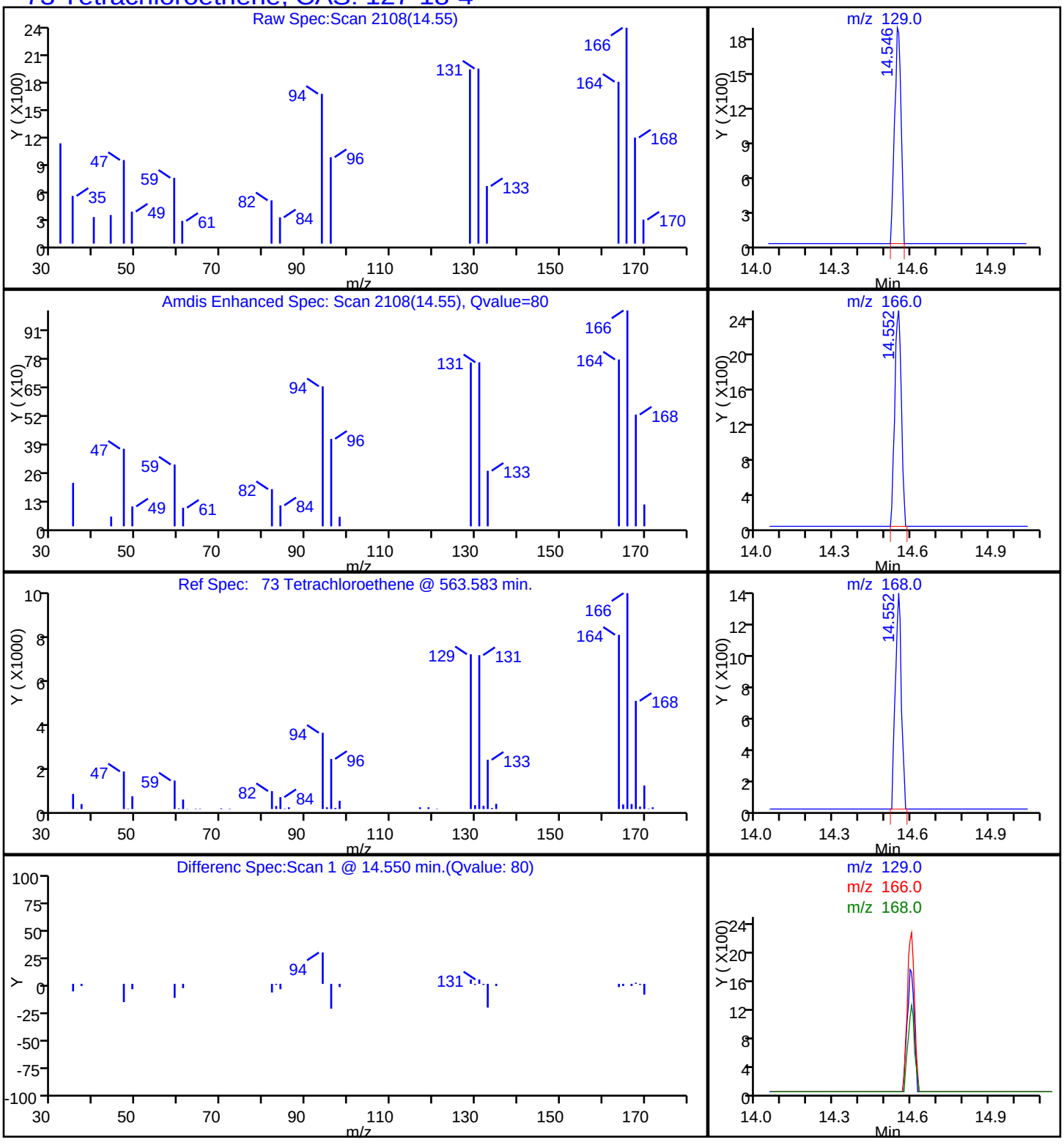
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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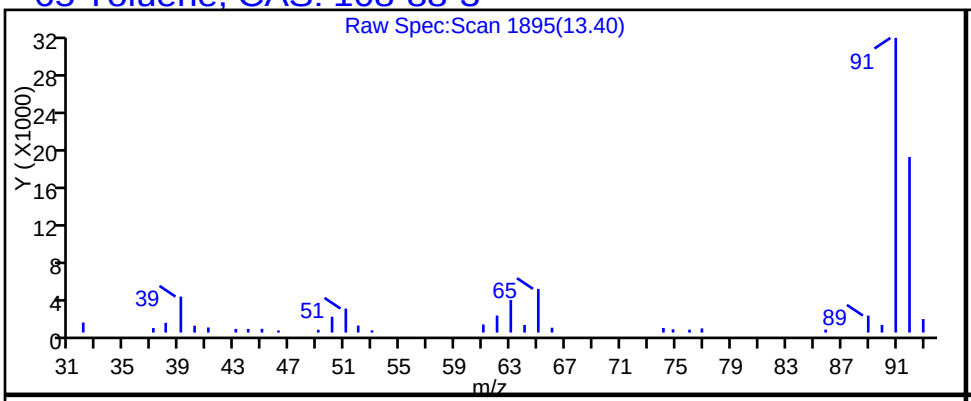
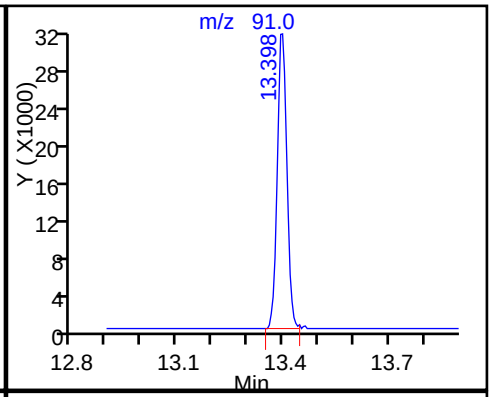
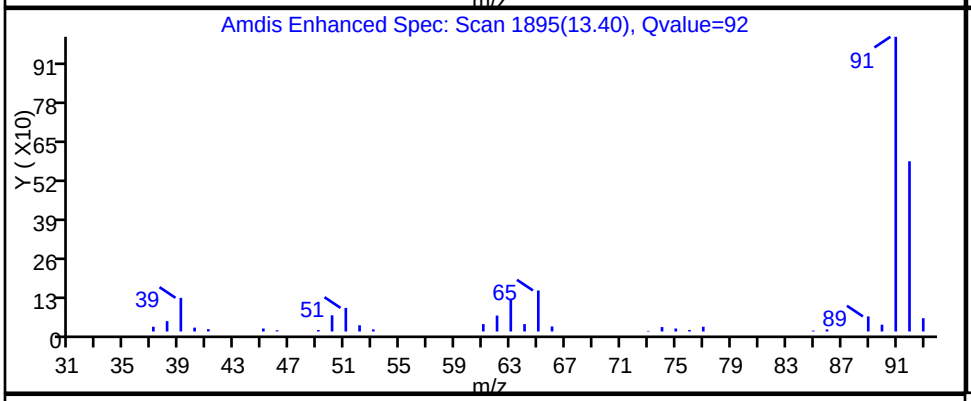
TestAmerica Knoxville

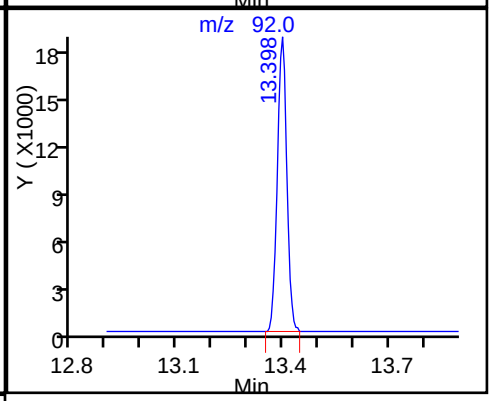
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D				
Injection Date:	14-Mar-2014 22:13:30	Instrument ID:	ME		
Lims ID:	140-1041-A-8	Lab Sample ID:	140-1041-8		
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

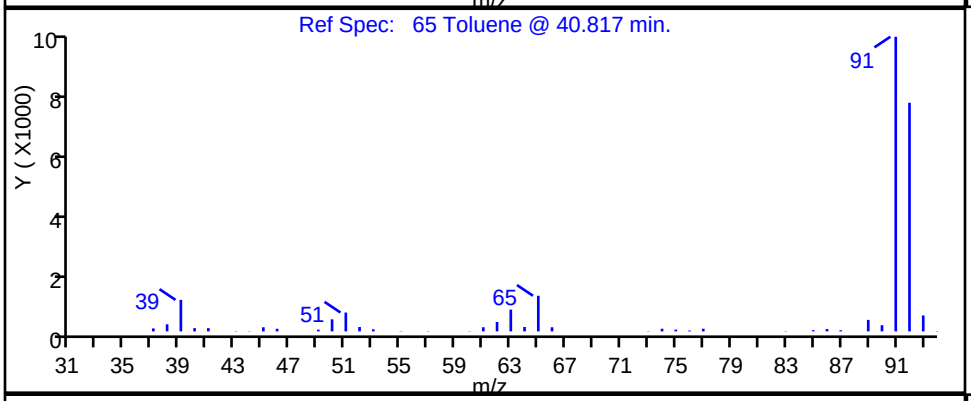
65 Toluene, CAS: 108-88-3

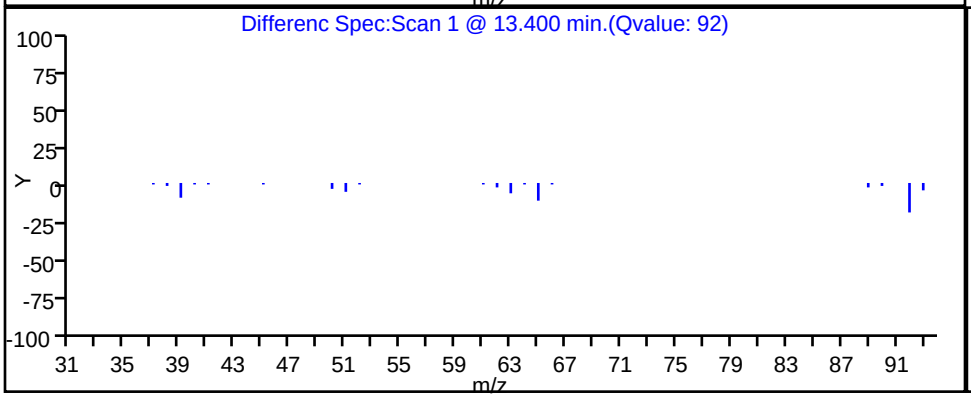


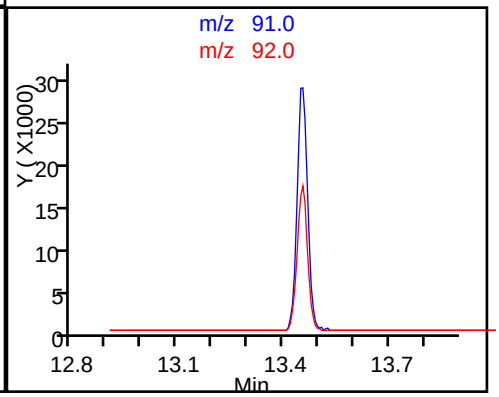












Report Date: 24-Mar-2014 15:48:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P108.D

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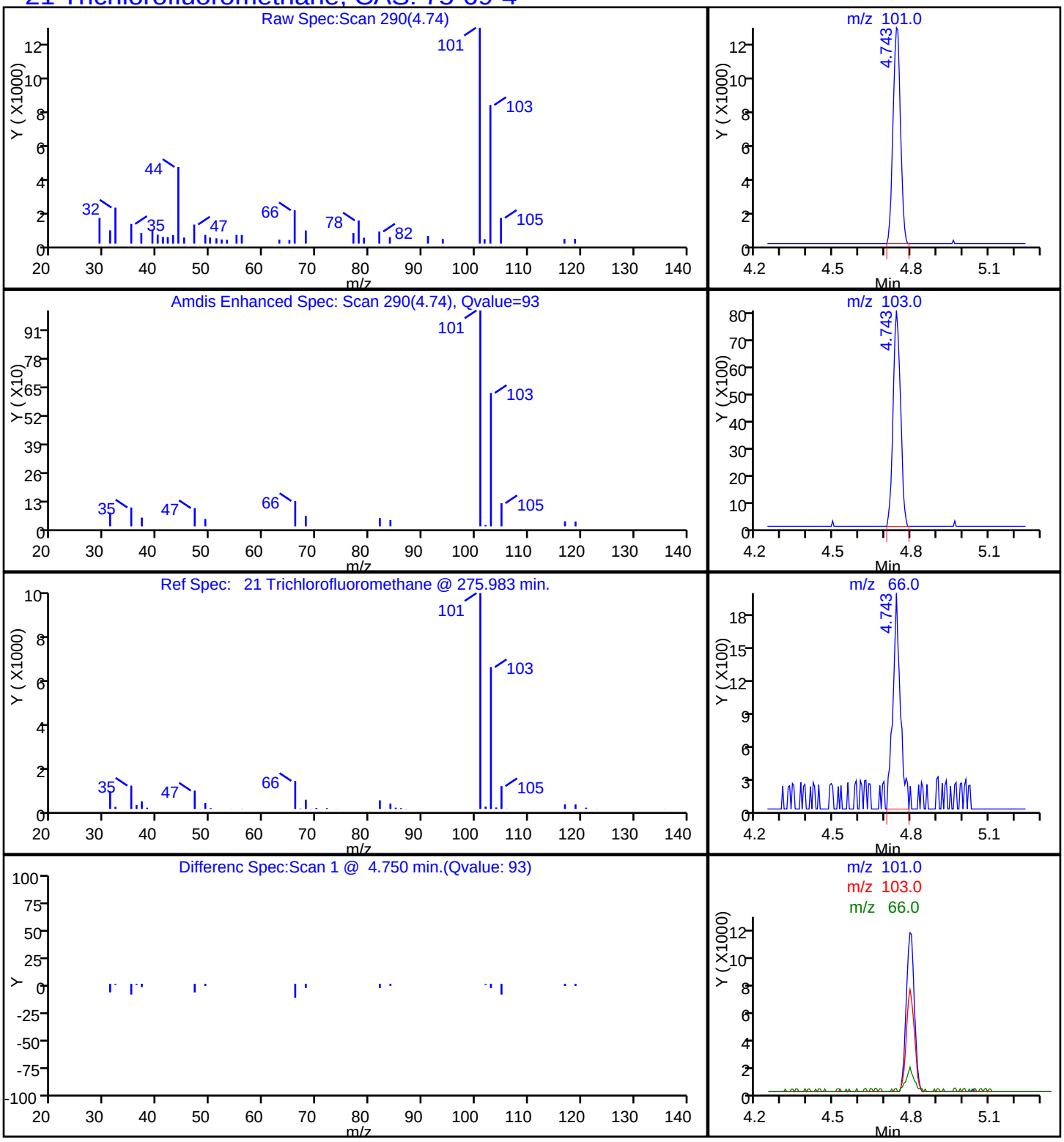
Client ID:	PCV-AMB-3				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 | Lab Sample ID: 140-1041-9

Matrix: Air | Lab File ID: EC14P109.D

Analysis Method: TO-15 | Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) | Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 958 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.37		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.045	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.25	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.69		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.32	J	0.50	0.045
67-64-1	Acetone	58.08	2.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 Lab Sample ID: 140-1041-9

Matrix: Air Lab File ID: EC14P109.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.061	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.1	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.39	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.95	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.067	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.27		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 Lab Sample ID: 140-1041-9

Matrix: Air Lab File ID: EC14P109.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 Lab Sample ID: 140-1041-9

Matrix: Air Lab File ID: EC14P109.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	2.2		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.21	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.74	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.3	J	2.0	0.18
67-64-1	Acetone	58.08	6.5	J	12	3.3
71-43-2	Benzene	78.11	0.61	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 Lab Sample ID: 140-1041-9

Matrix: Air Lab File ID: EC14P109.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	24		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.25	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.56	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.45	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B14 Lab Sample ID: 140-1041-9

Matrix: Air Lab File ID: EC14P109.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 22:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D
Lims ID: 140-1041-A-9 Lab Sample ID: 140-1041-9
Client ID: PCV-IA1-B14
Sample Type: Client
Inject. Date: 14-Mar-2014 22:59:30 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-9
Misc. Info.: E031414,TO155,,140-0000522-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:48:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:31:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	79	216595	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1073285	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	935572	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	851737	4.16	
7 Propene	41	3.325	3.314	0.011	67	20604	0.3782	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	99	43611	0.1820	
9 Chloromethane	52	3.535	3.530	0.005	96	4558	0.2383	
17 Ethanol	31	4.317	4.317	0.0	98	108080	4.99	
19 2-Methylbutane	43	4.538	4.538	0.0	88	21080	0.2779	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	94	25023	0.1041	
23 Acetone	58	4.883	4.883	0.0	99	35843	1.09	
24 Isopropyl alcohol	45	4.975	4.975	0.0	90	35483	0.4201	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.611	0.006	69	4216	0.0283	
31 Methylene Chloride	84	5.789	5.795	-0.006	73	9603	0.1552	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	89	3574	0.1008	
40 Hexane	56	7.585	7.590	-0.005	65	3481	0.0604	
48 Benzene	78	9.995	9.995	0.0	91	16520	0.0765	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	86	5401	0.0260	
53 Isooctane	57	10.782	10.788	-0.006	72	5975	0.0179	
54 n-Heptane	71	11.176	11.182	-0.006	61	2003	0.0245	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	91	16449	0.1293	
65 Toluene	91	13.398	13.403	-0.005	90	26573	0.1060	
73 Tetrachloroethene	129	14.552	14.552	0.0	78	2845	0.0267	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	92	12921	0.0511	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	87	27454	0.1495	

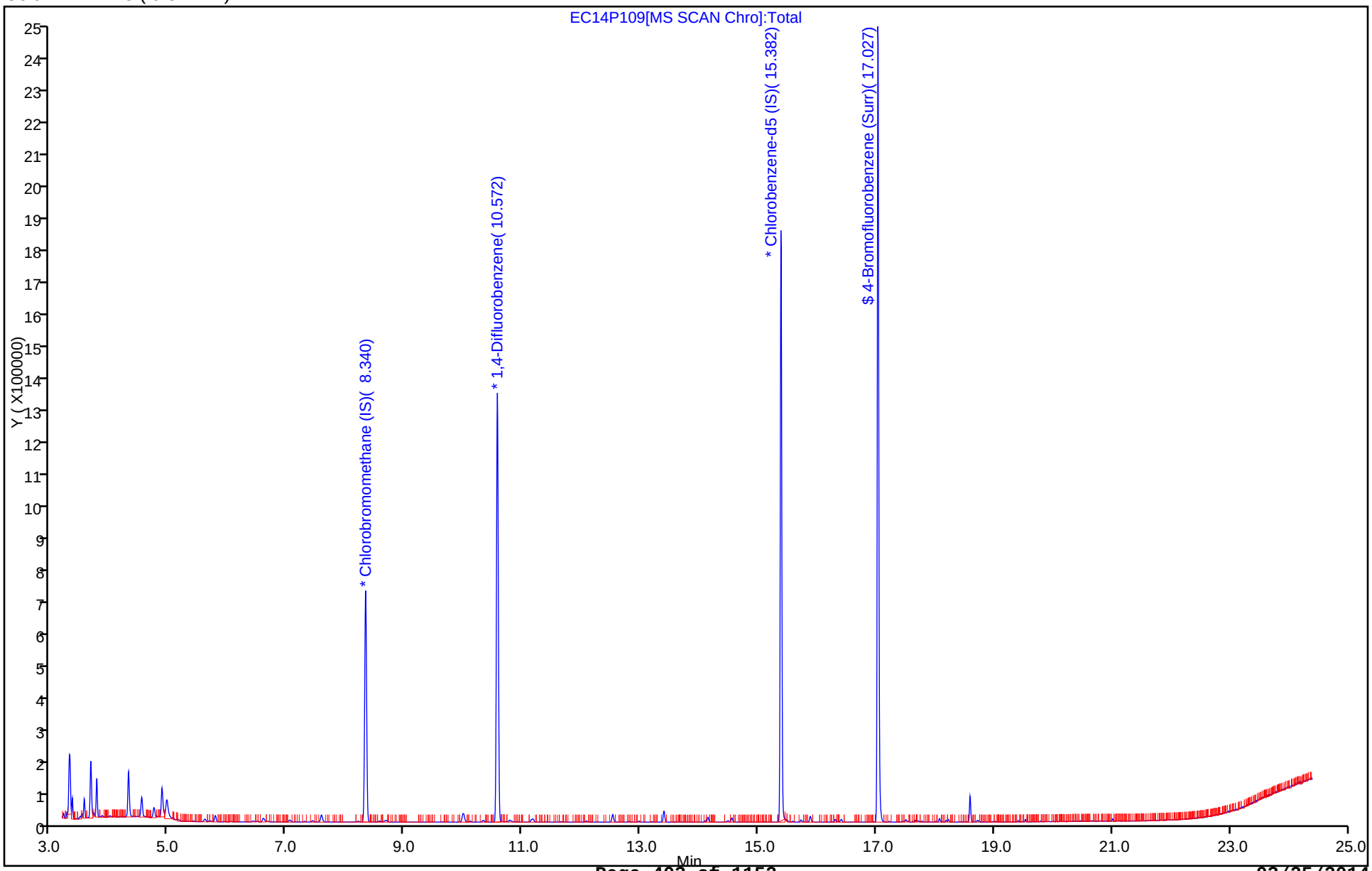
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9	Worklist Smp#:	14
Client ID:	PCV-IA1-B14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



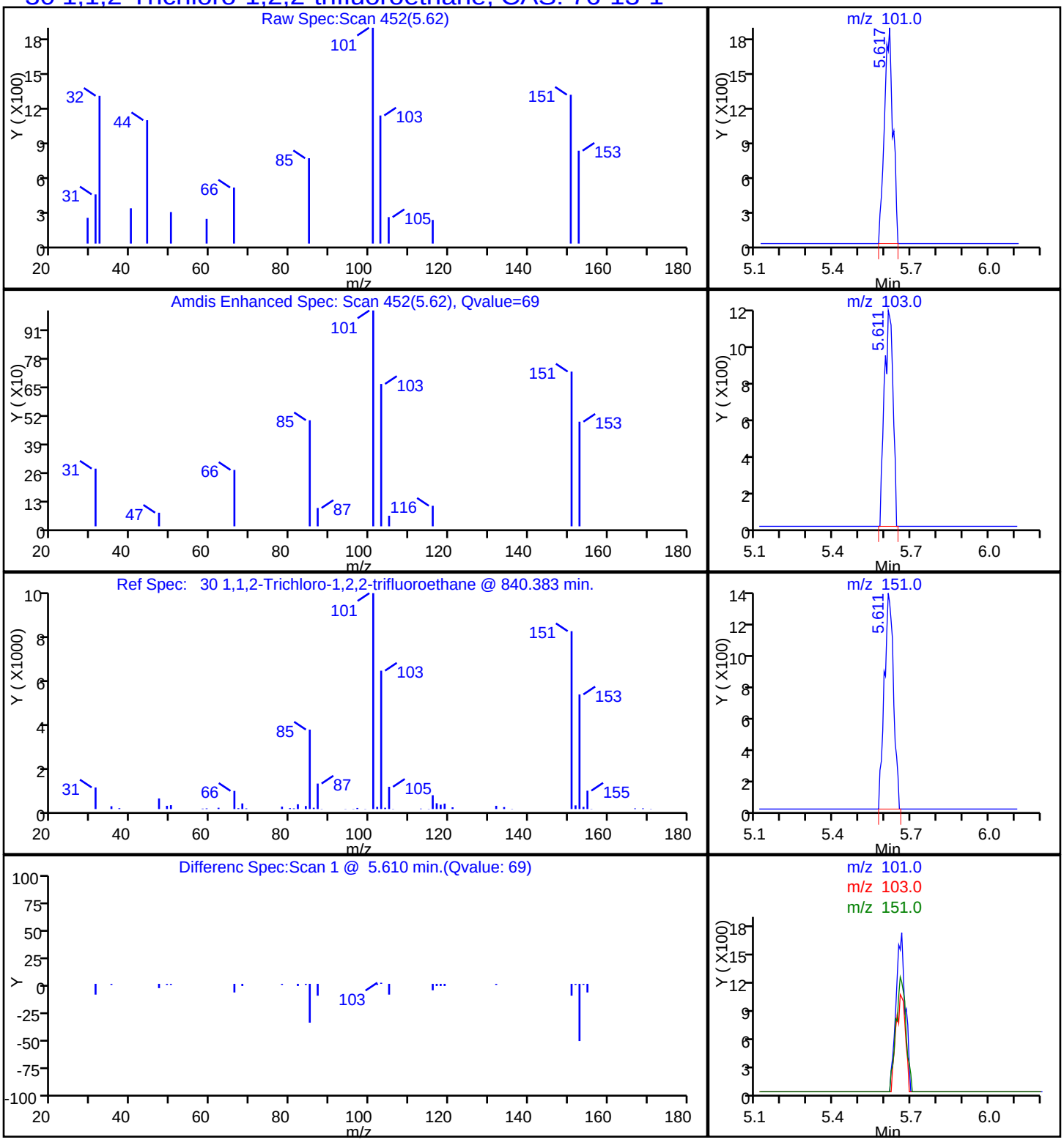
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



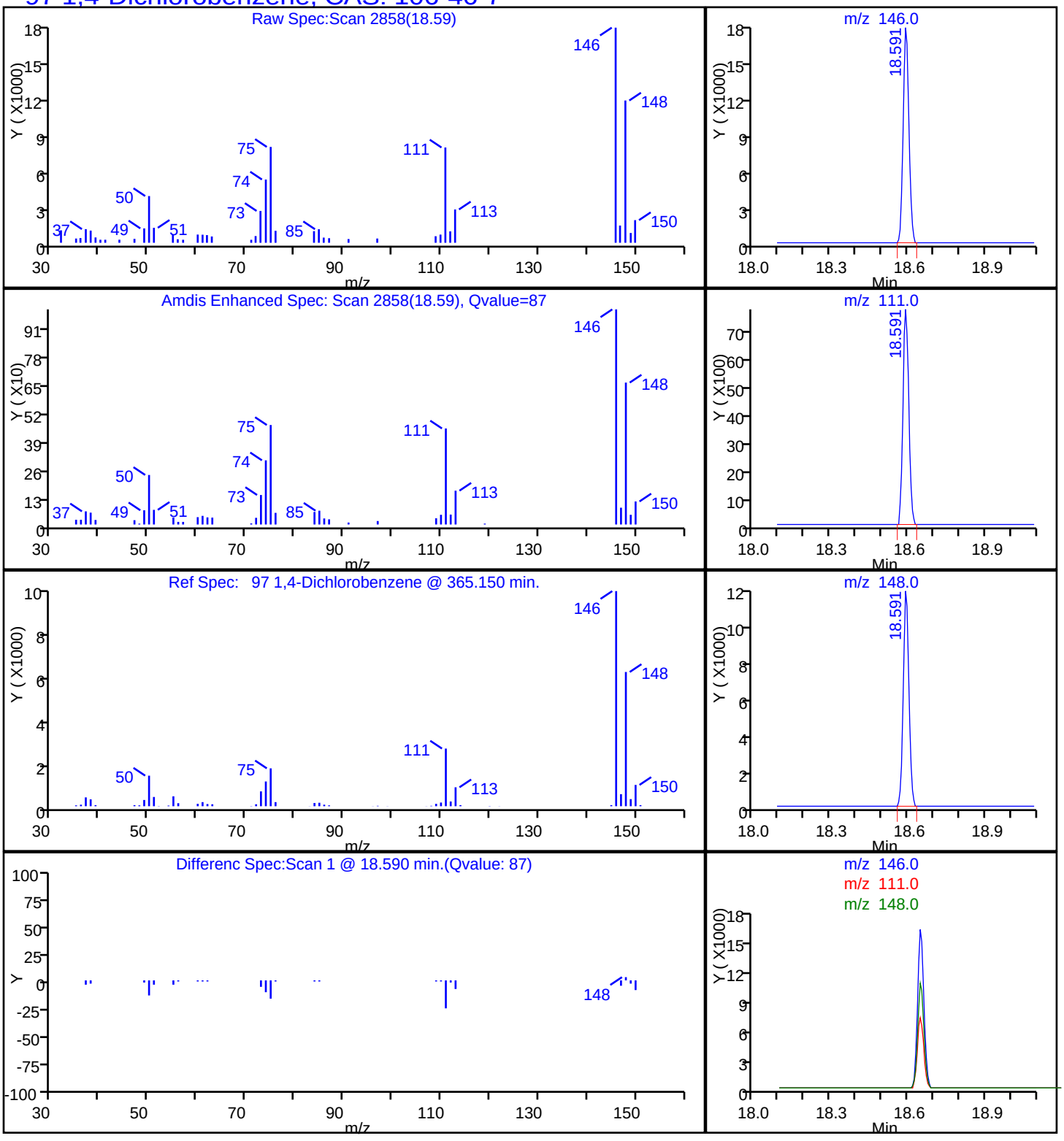
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

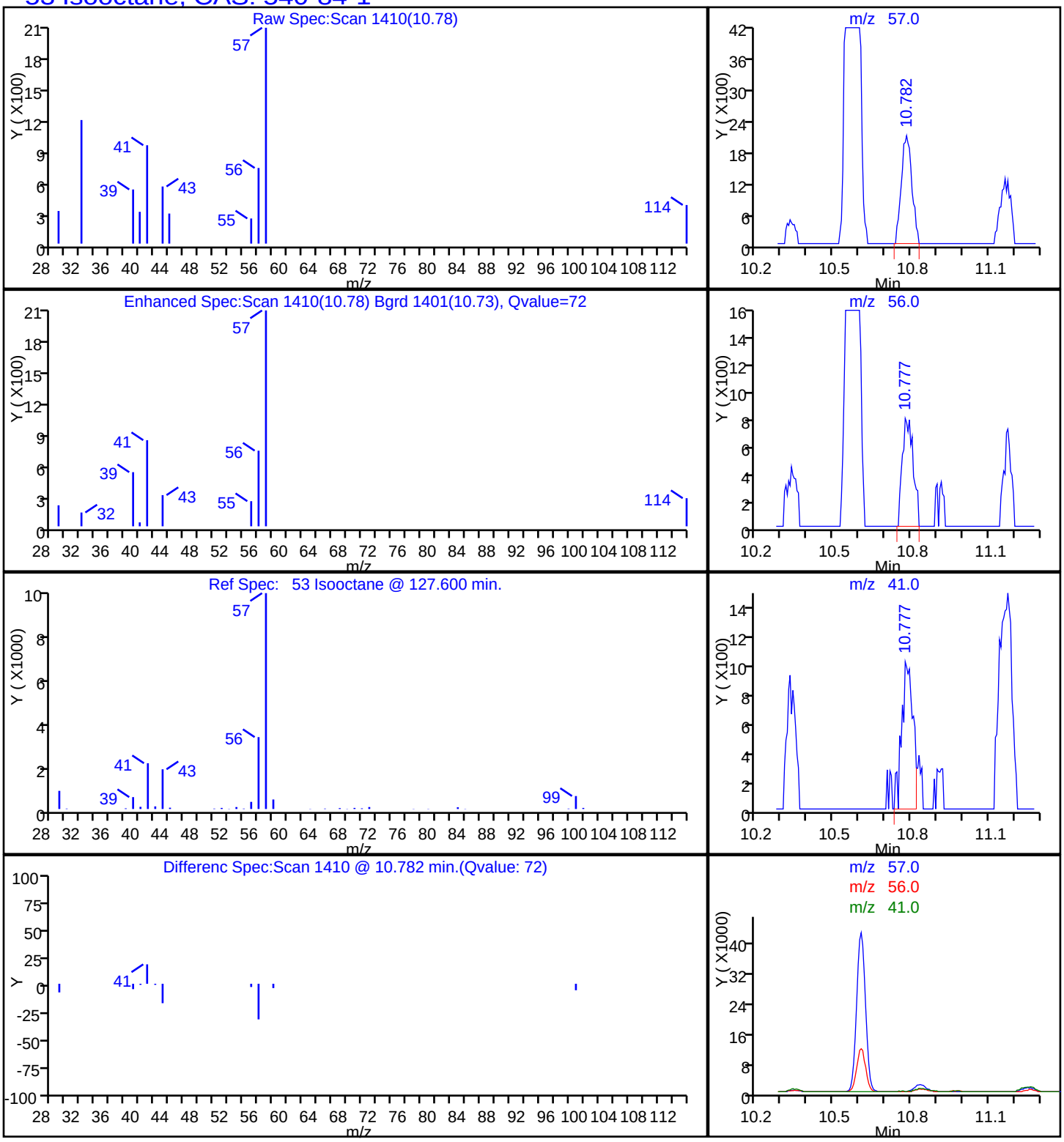


Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D				
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



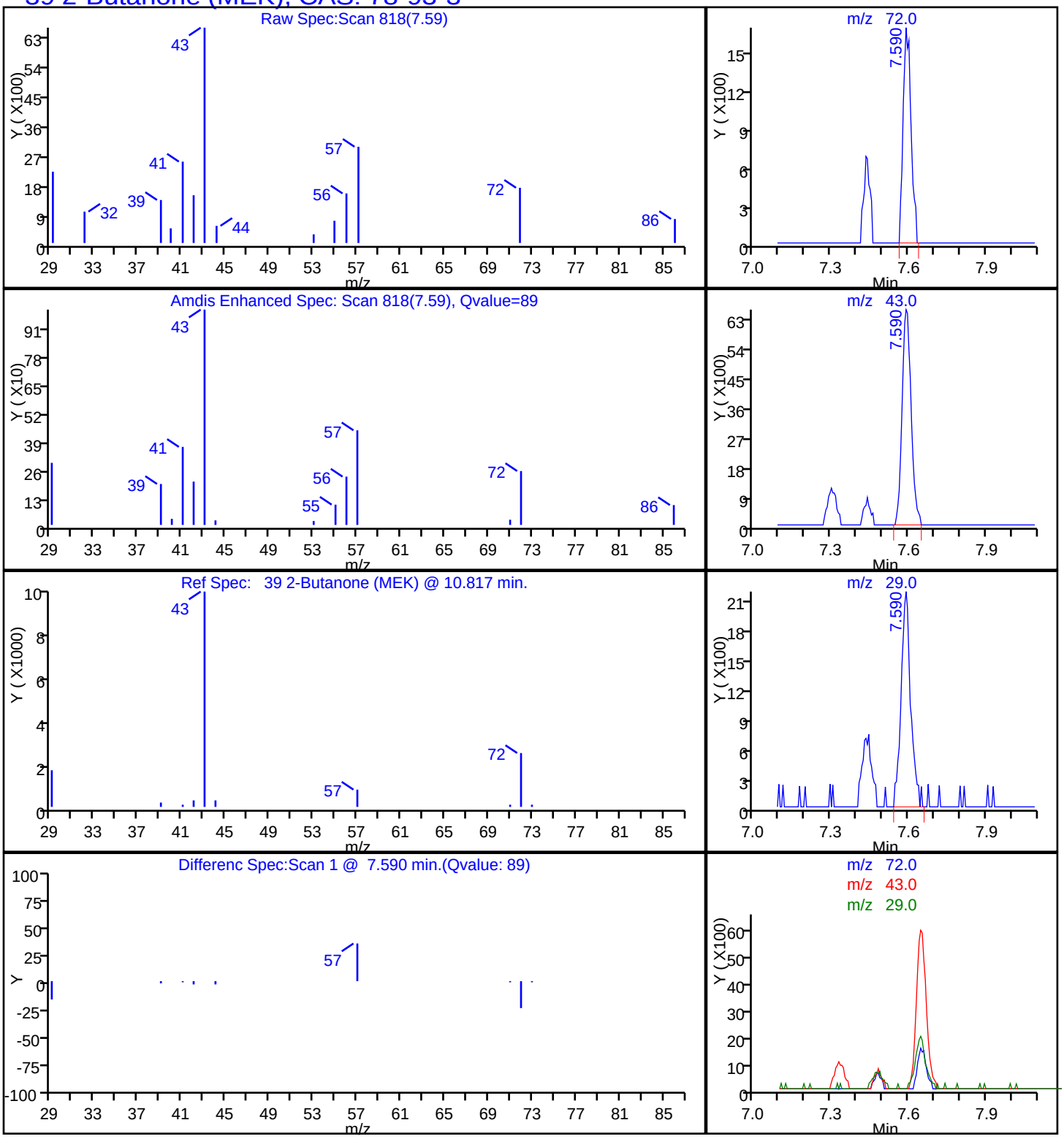
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



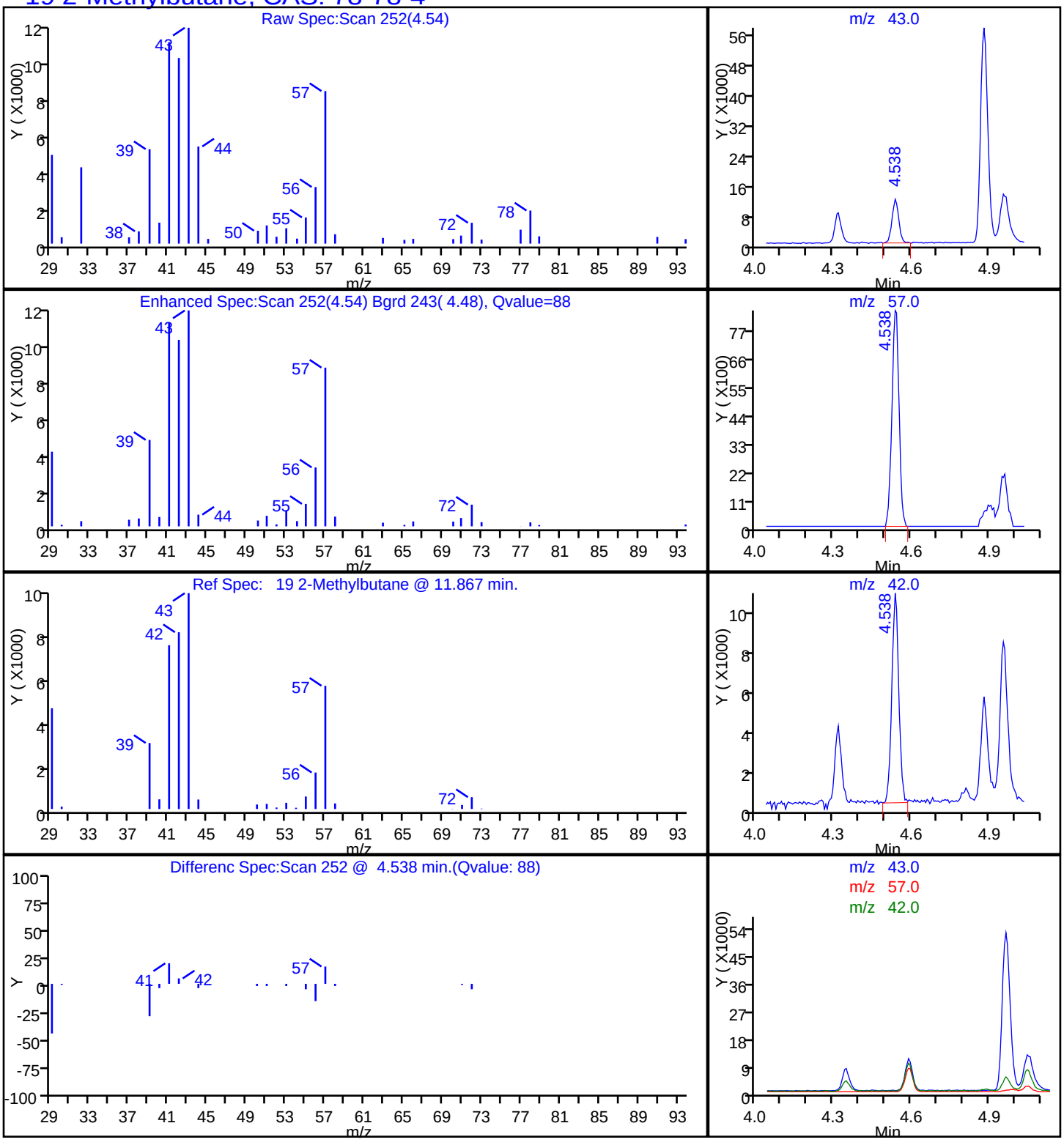
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

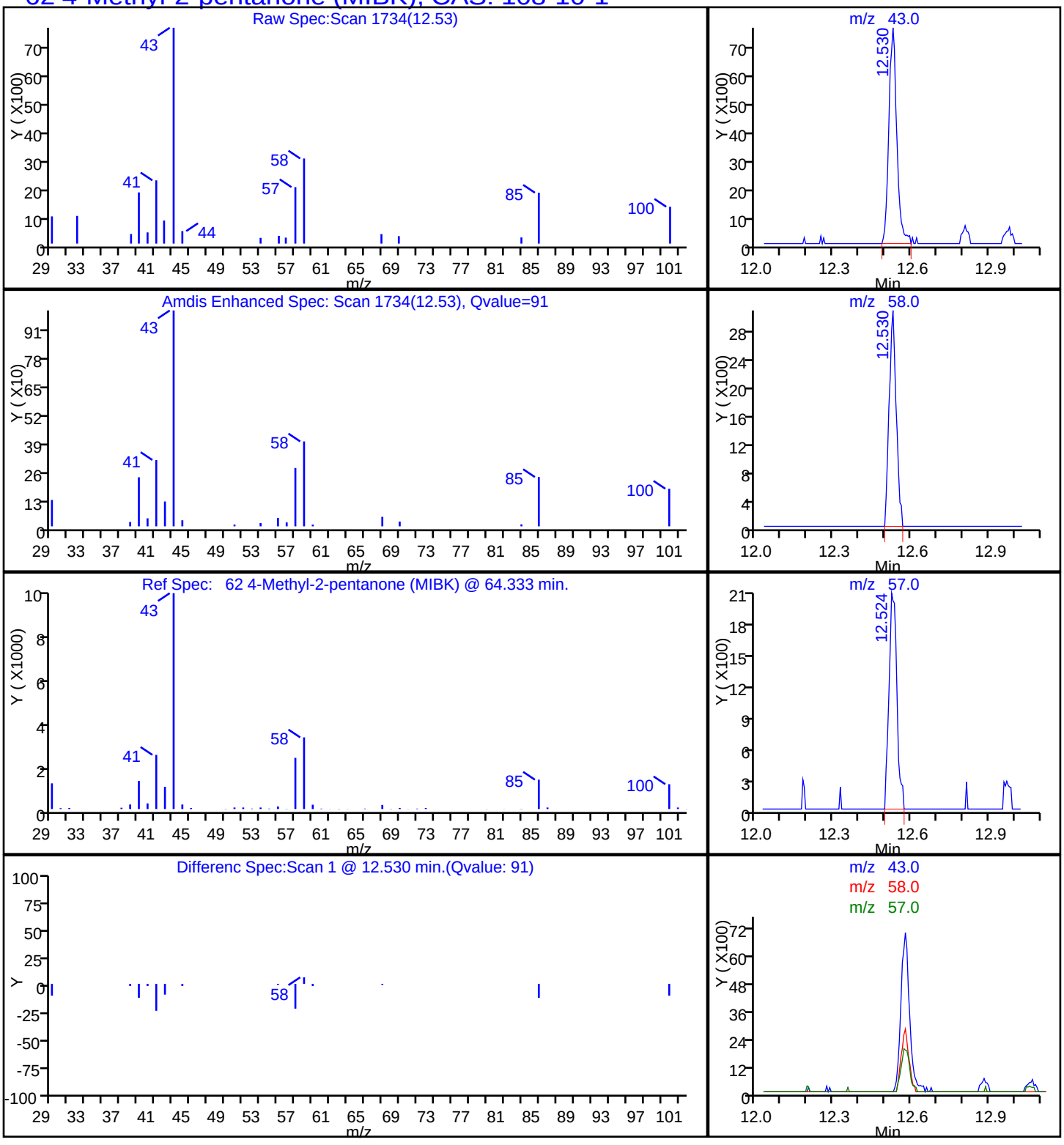


Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D		
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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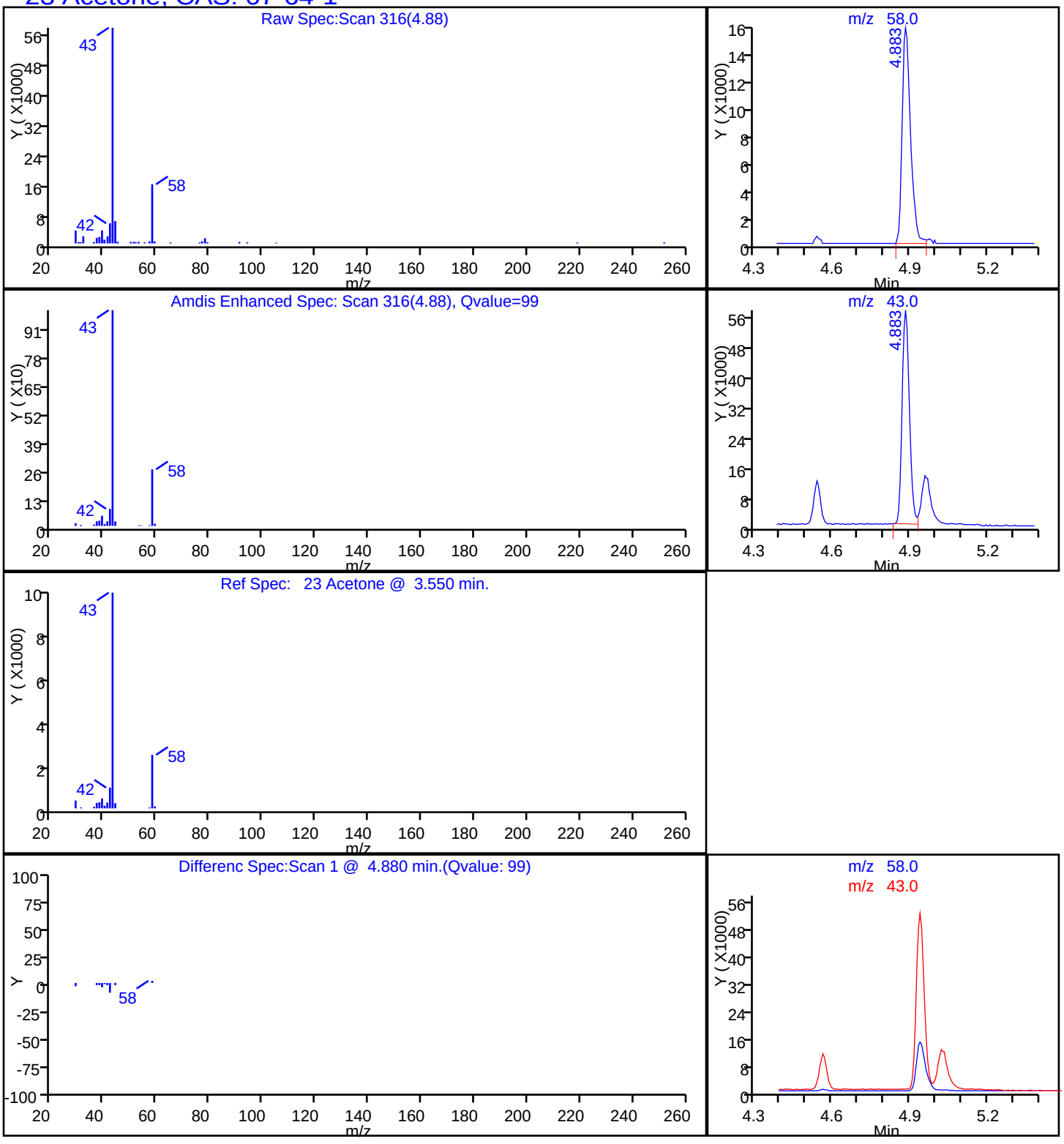
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



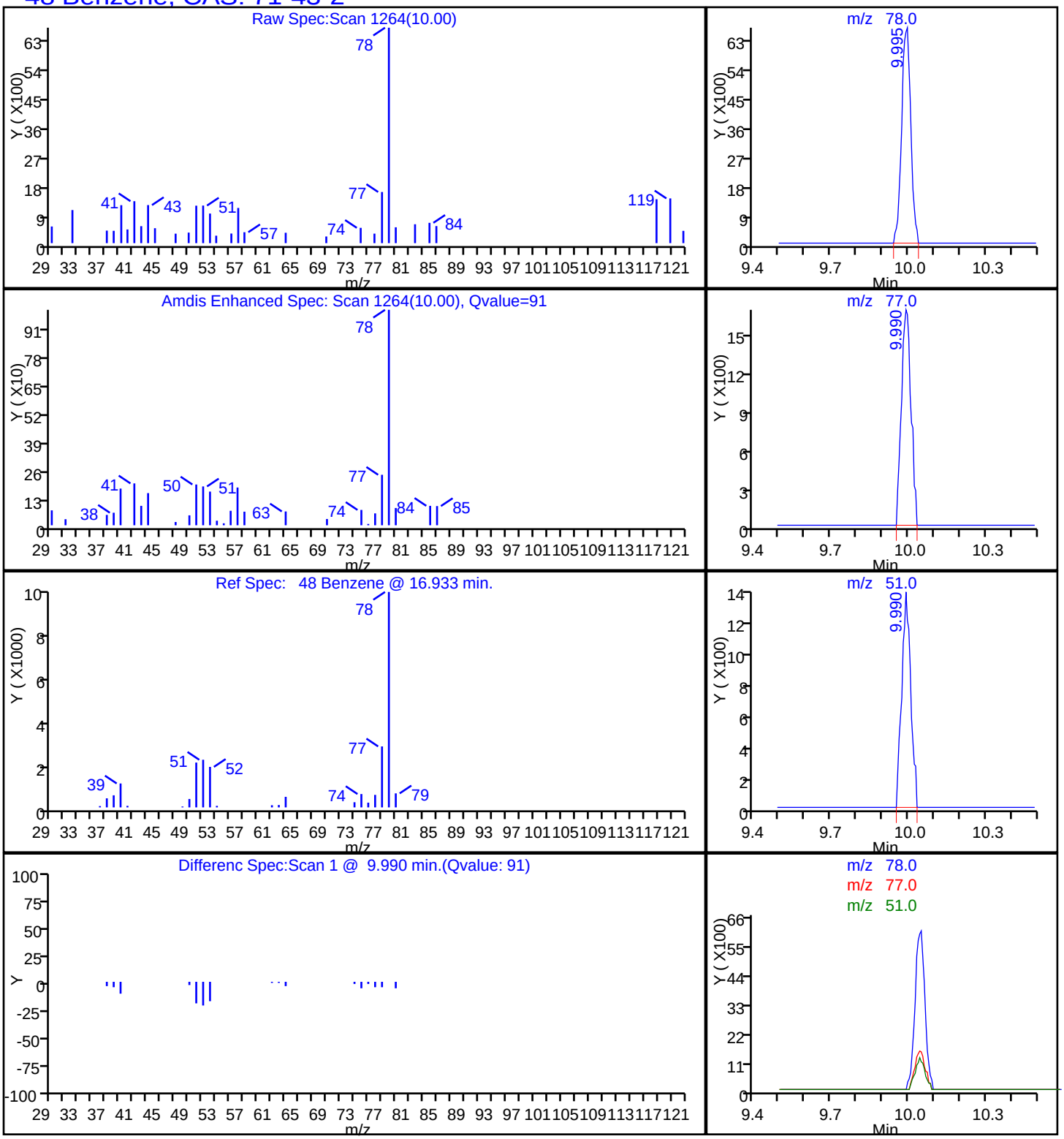
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



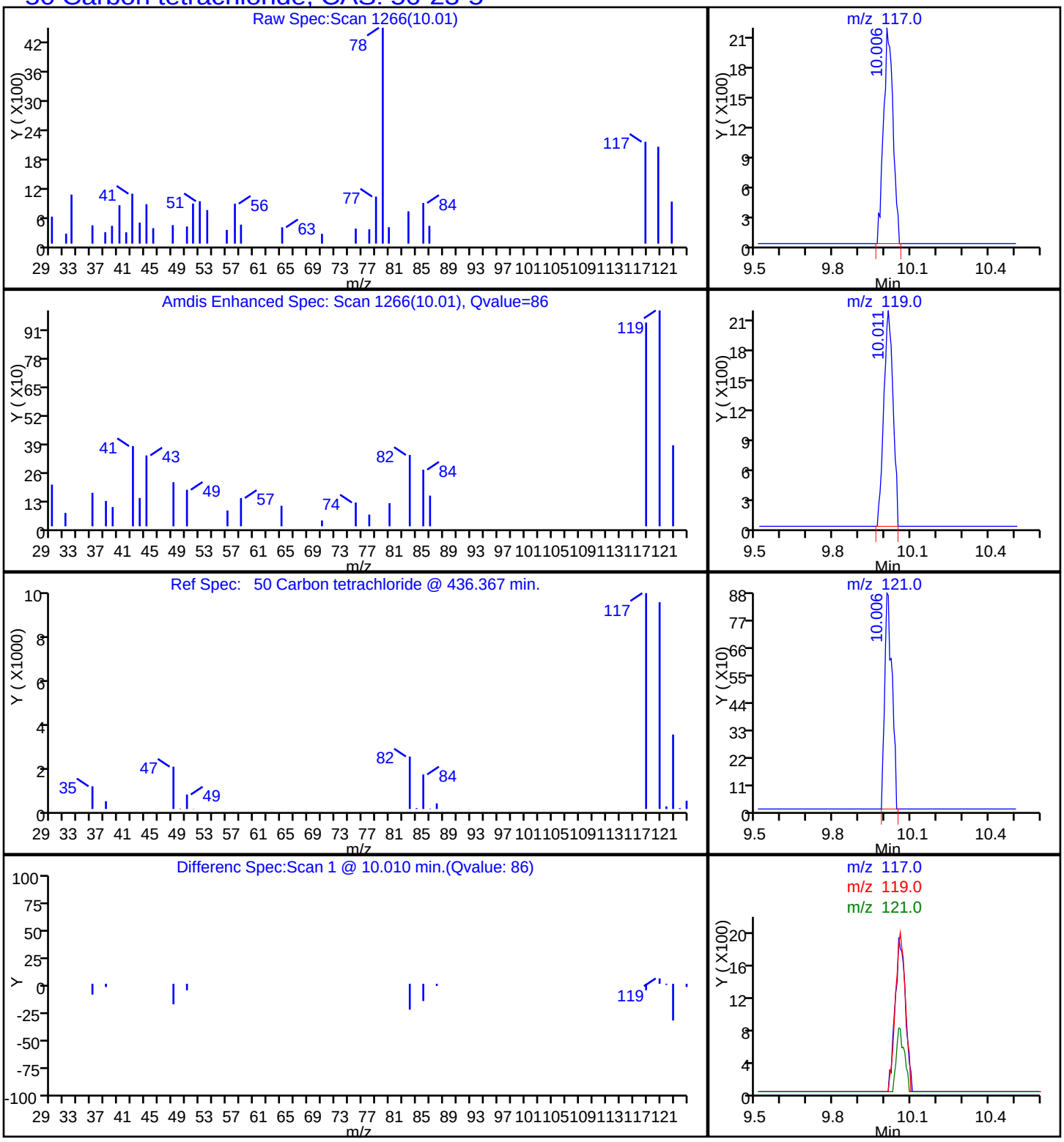
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



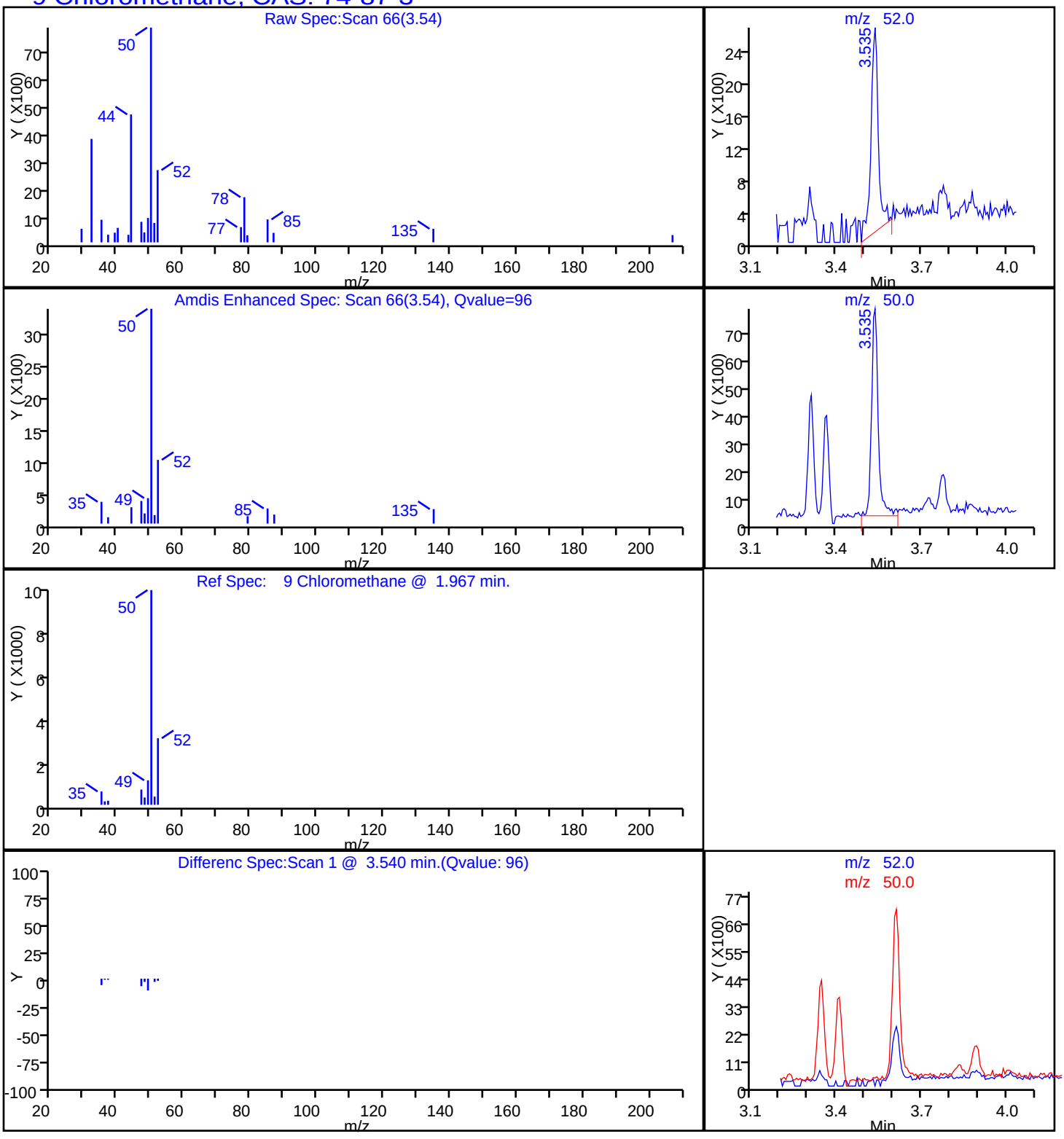
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

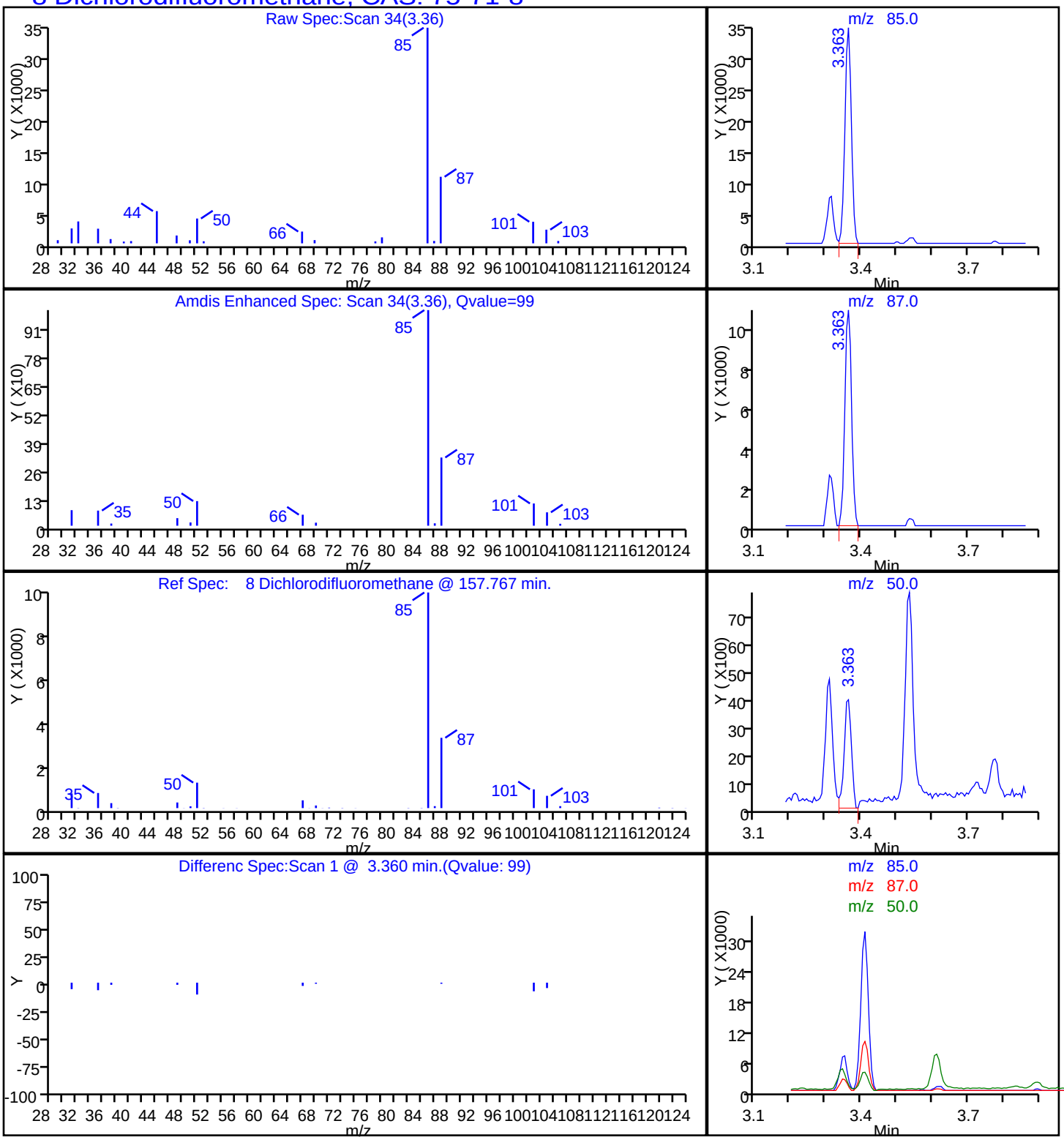


Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D		
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



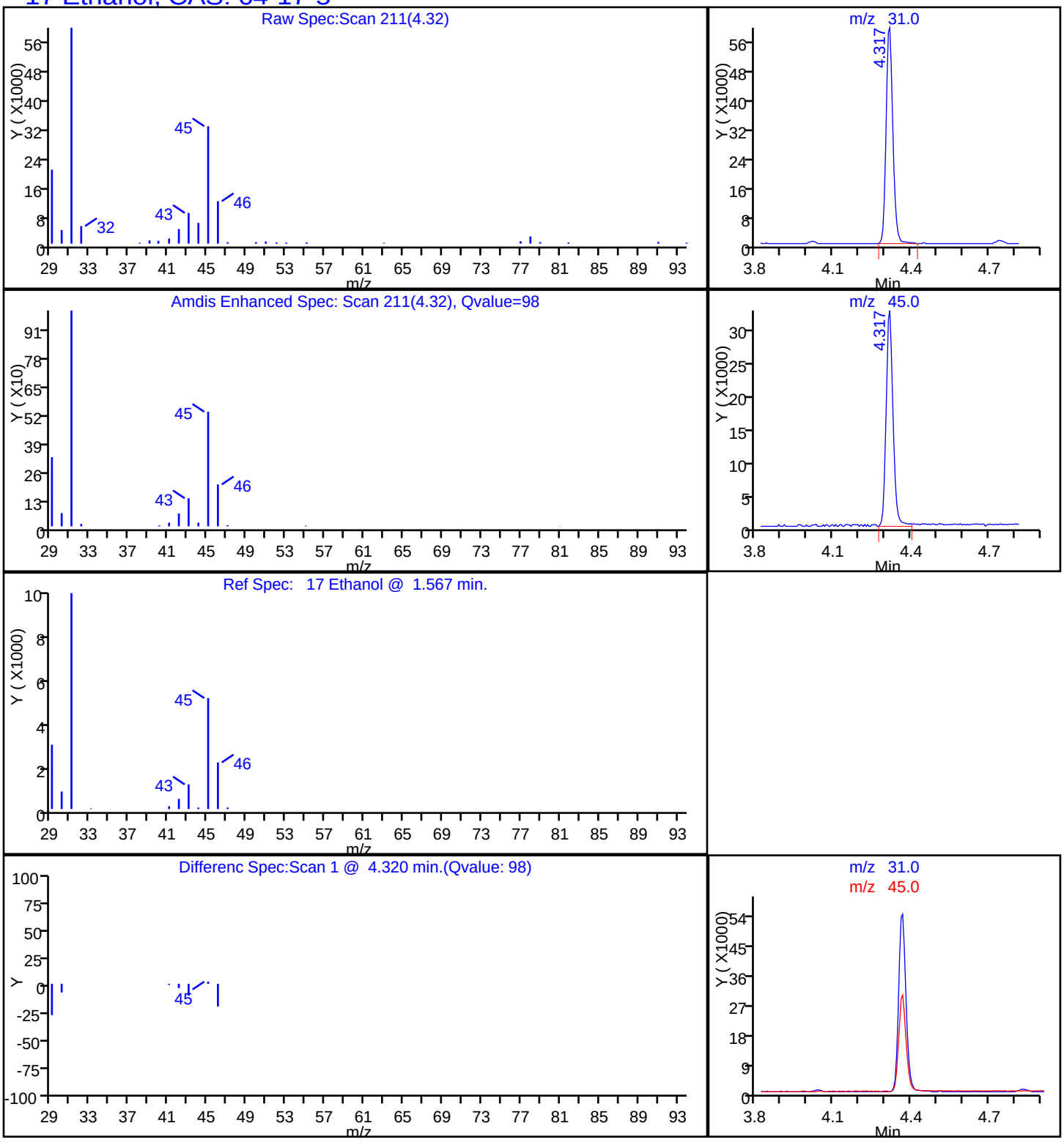
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

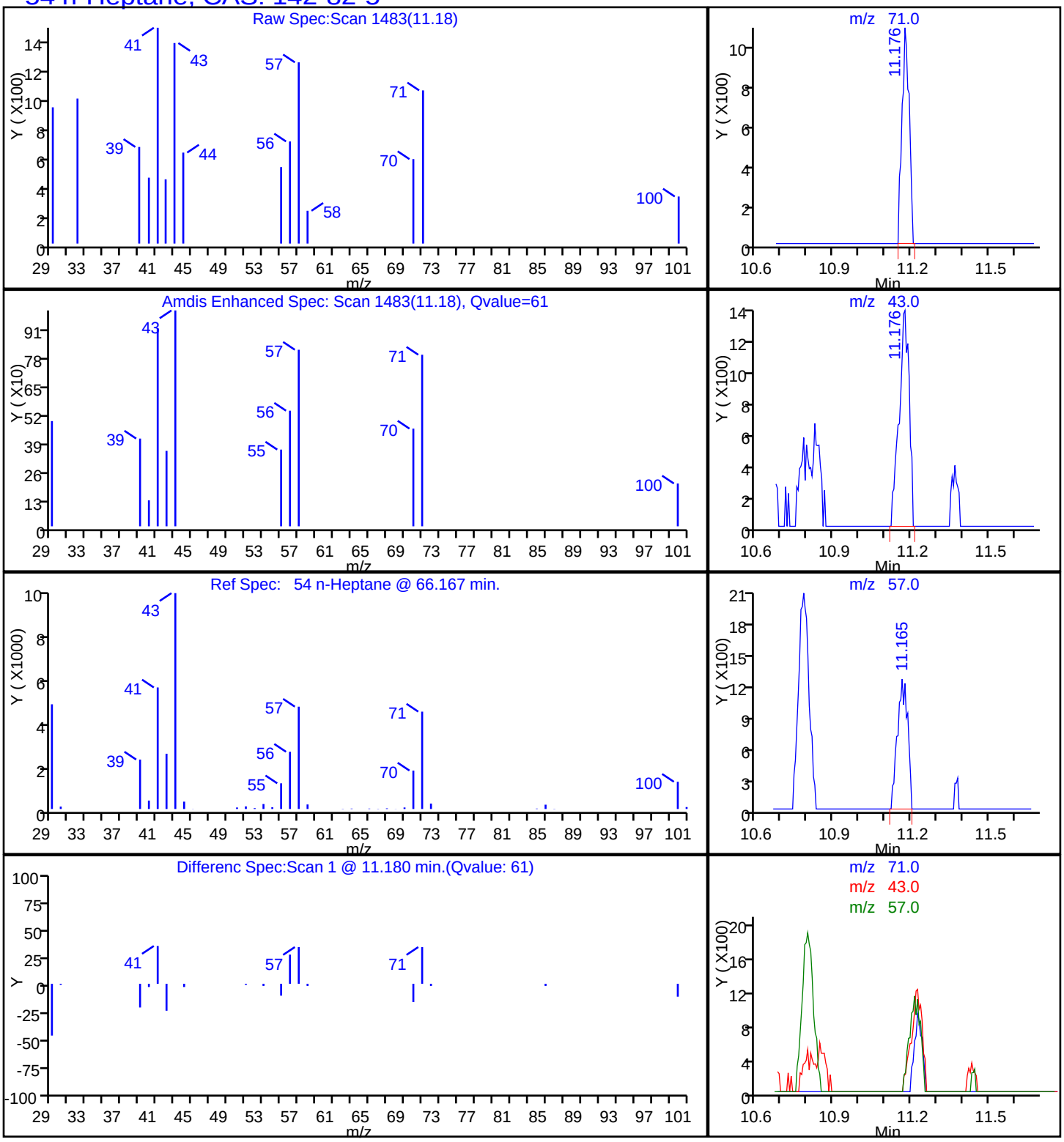


Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D		
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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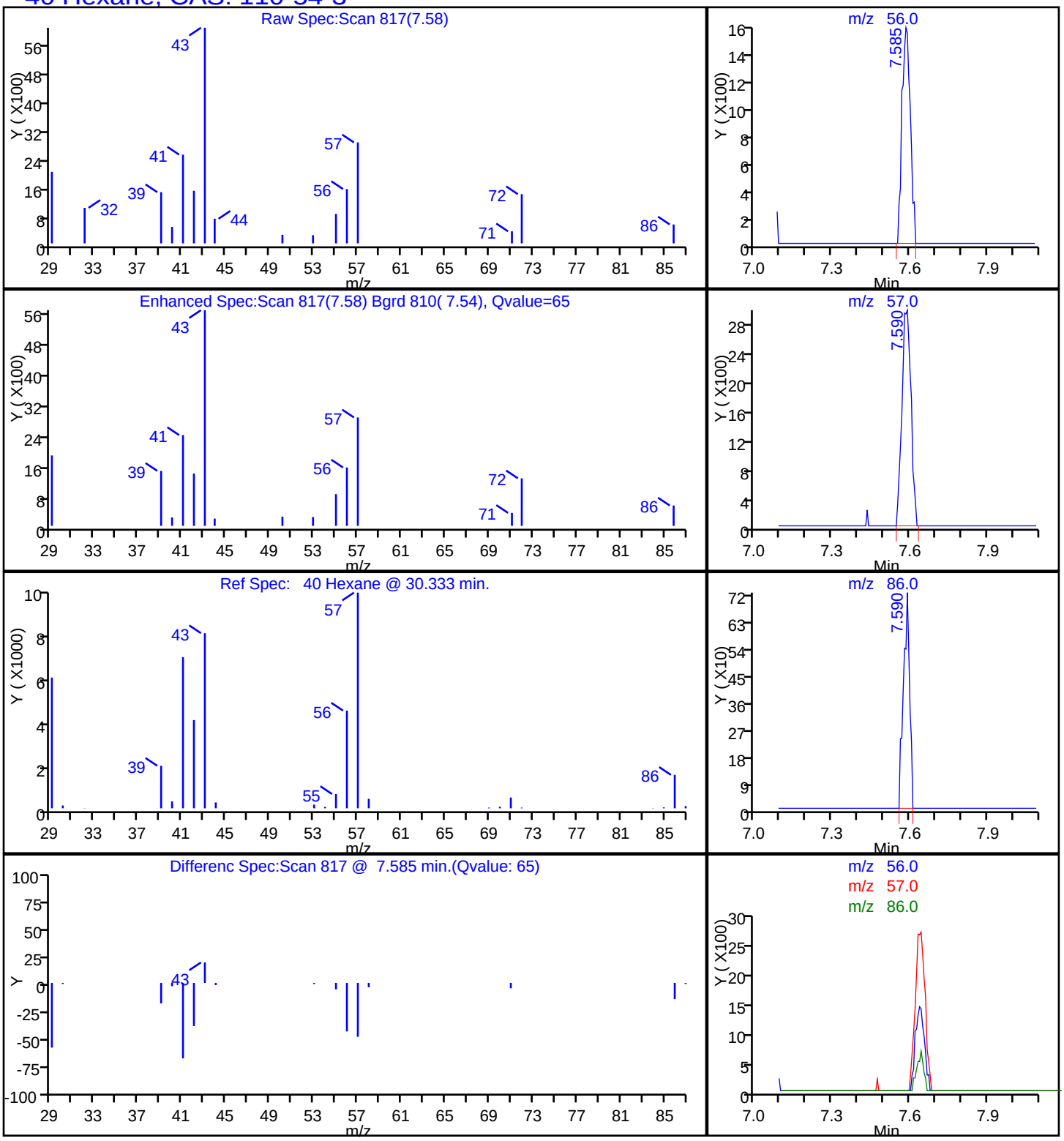
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



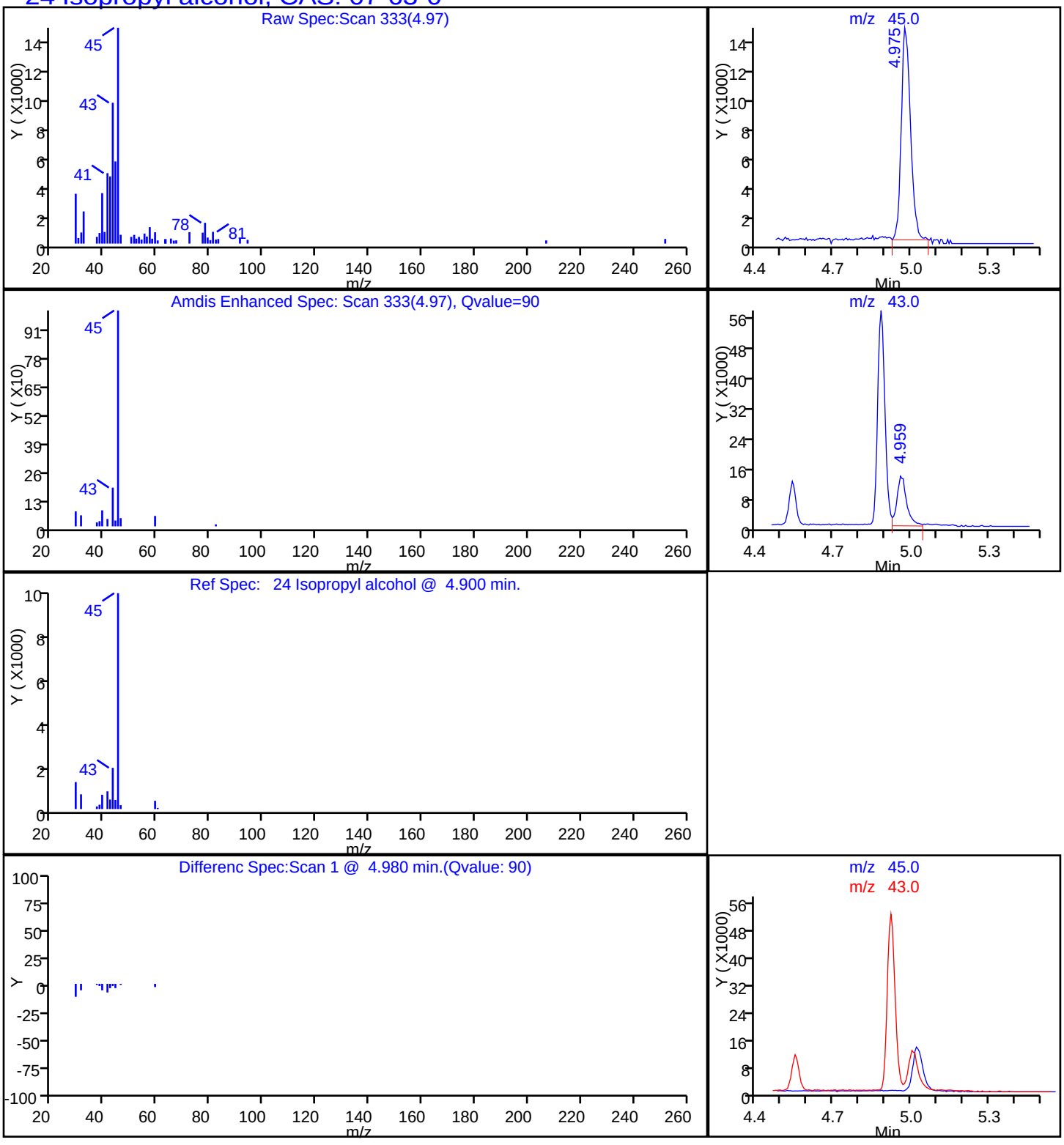
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



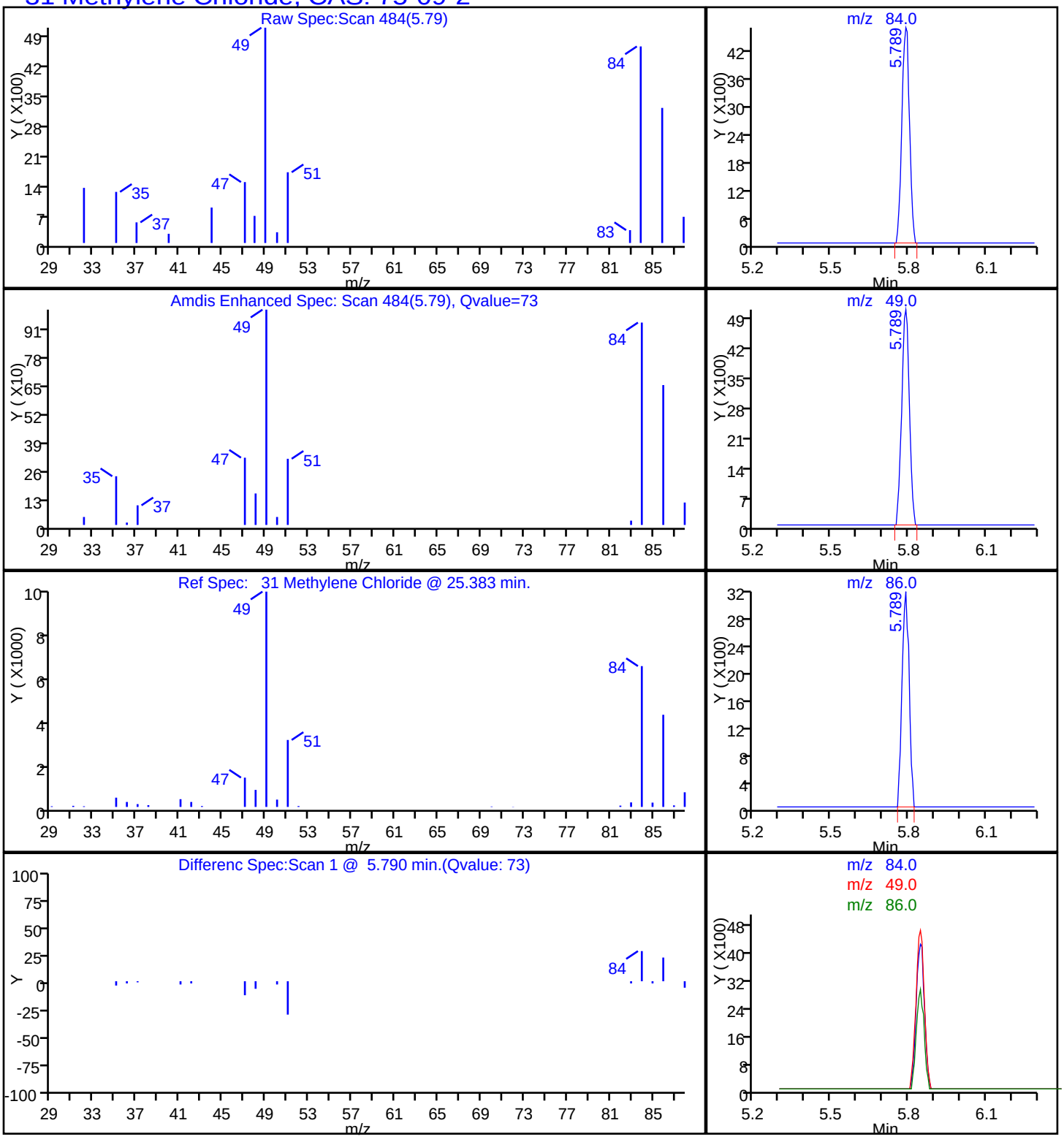
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

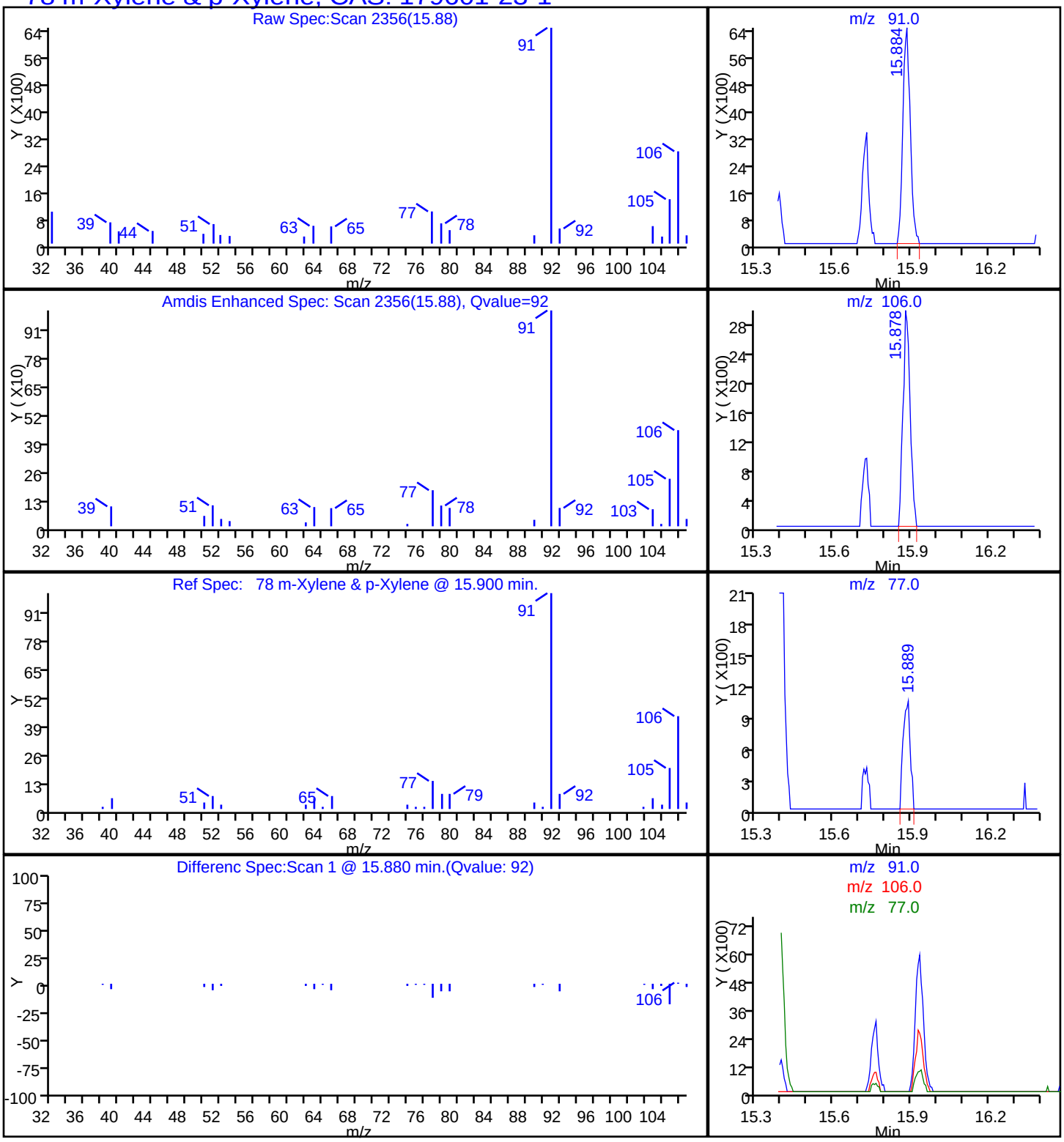
31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D				
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



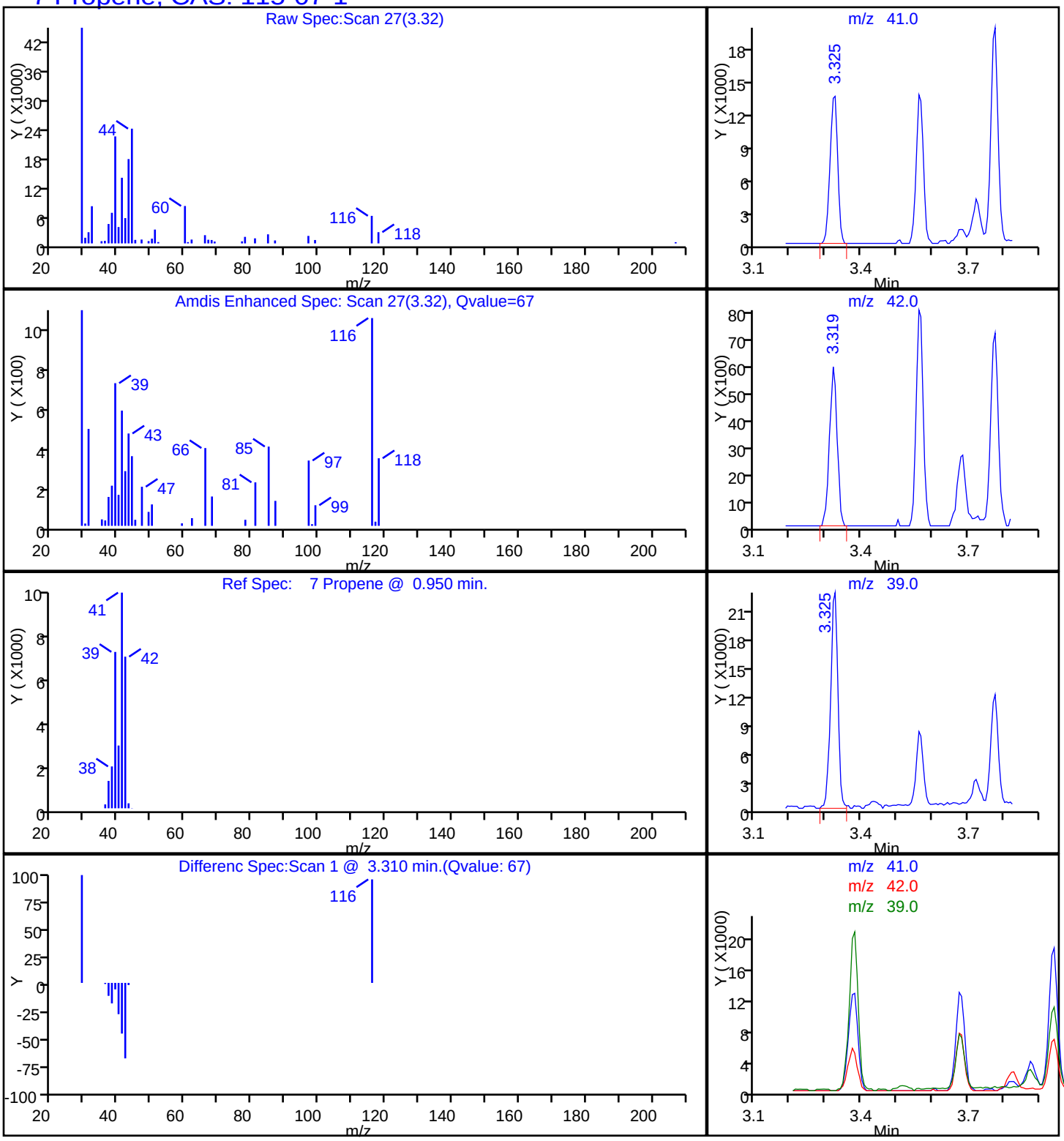
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



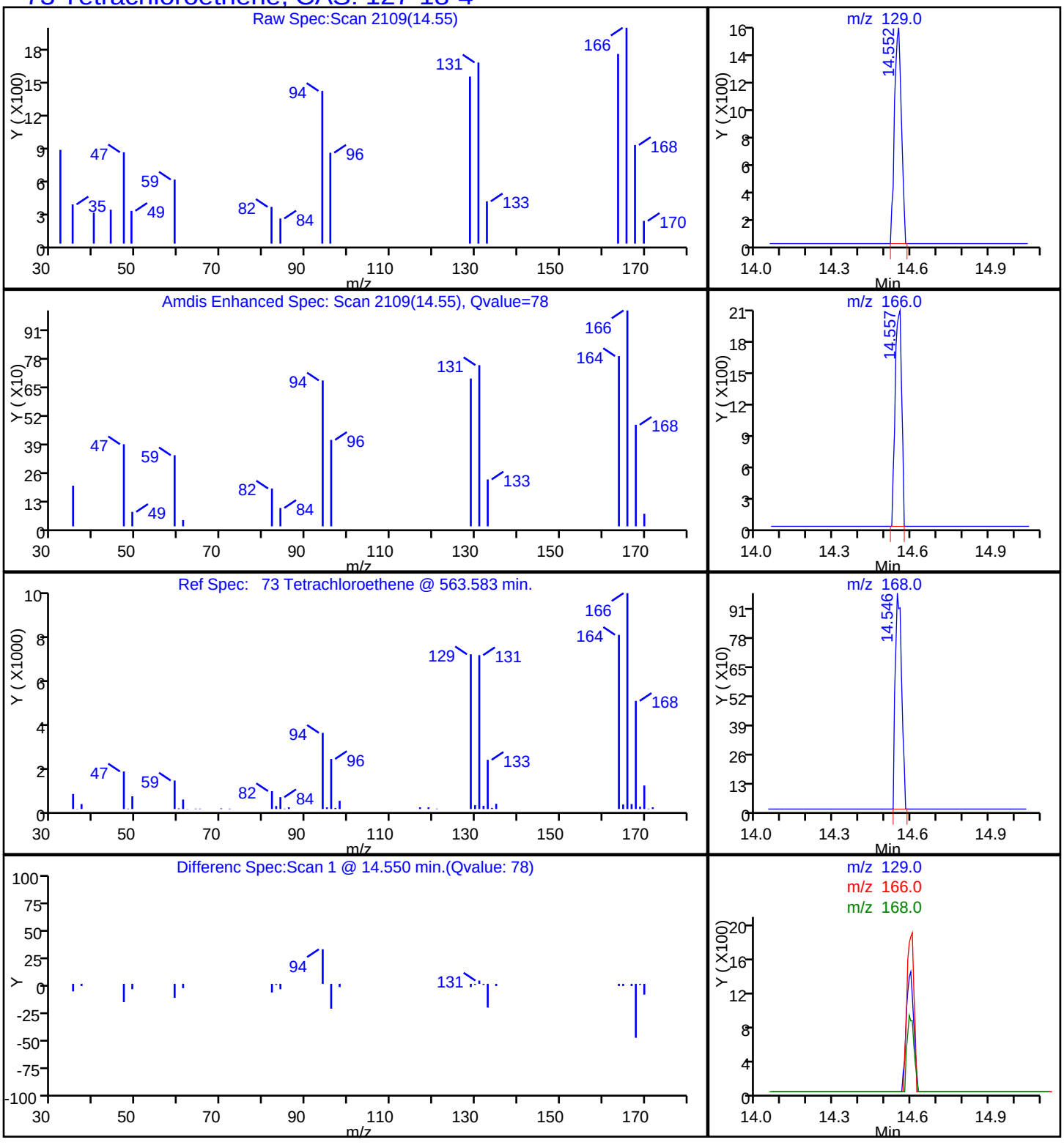
Report Date: 24-Mar-2014 15:48:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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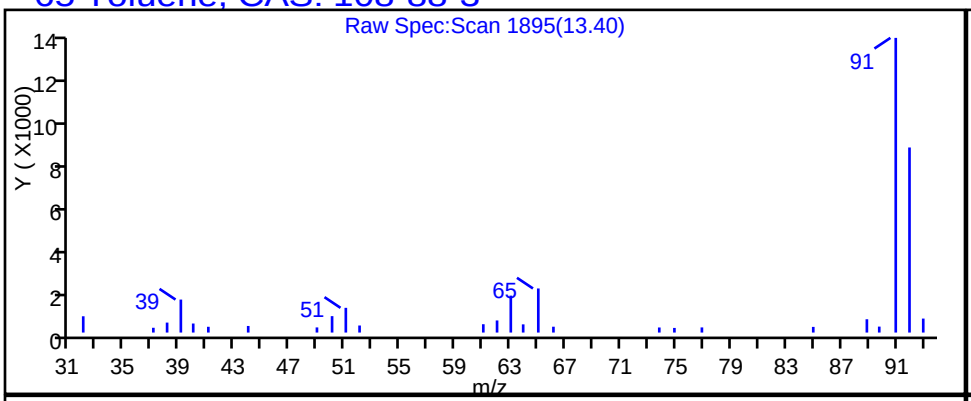
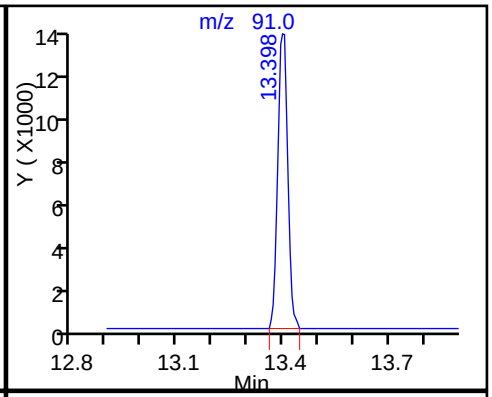
TestAmerica Knoxville

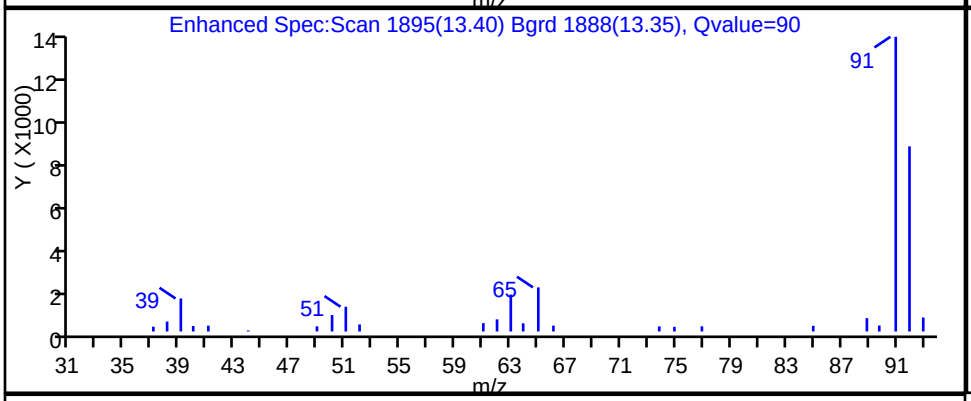
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

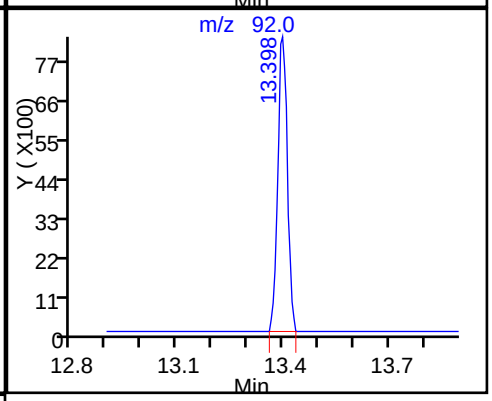
Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME		
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9		
Client ID:	PCV-IA1-B14				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

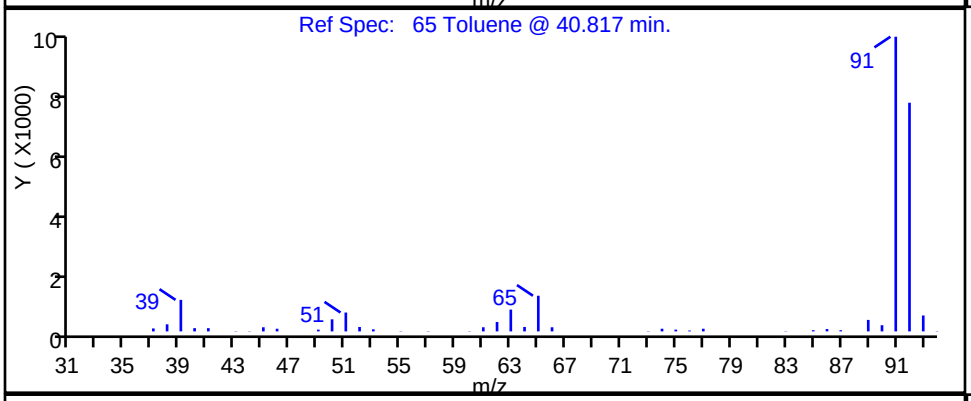
65 Toluene, CAS: 108-88-3

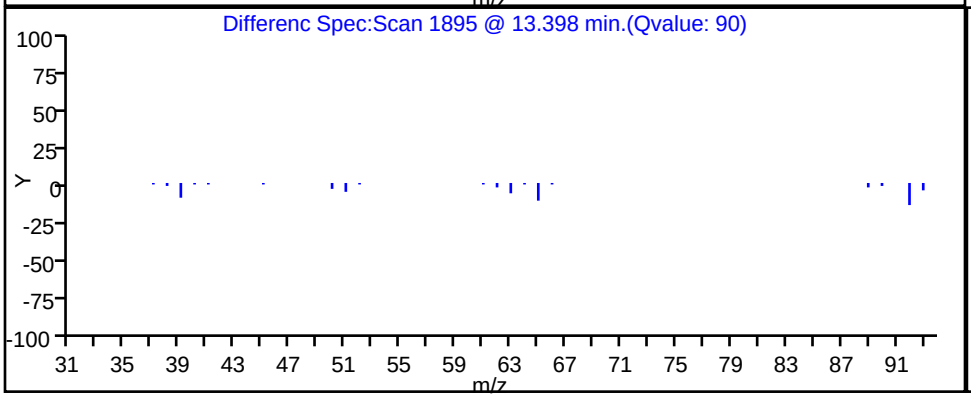


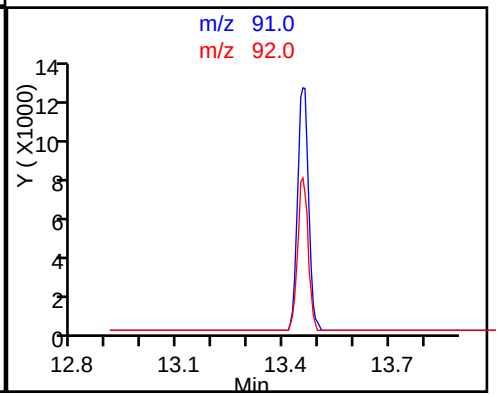












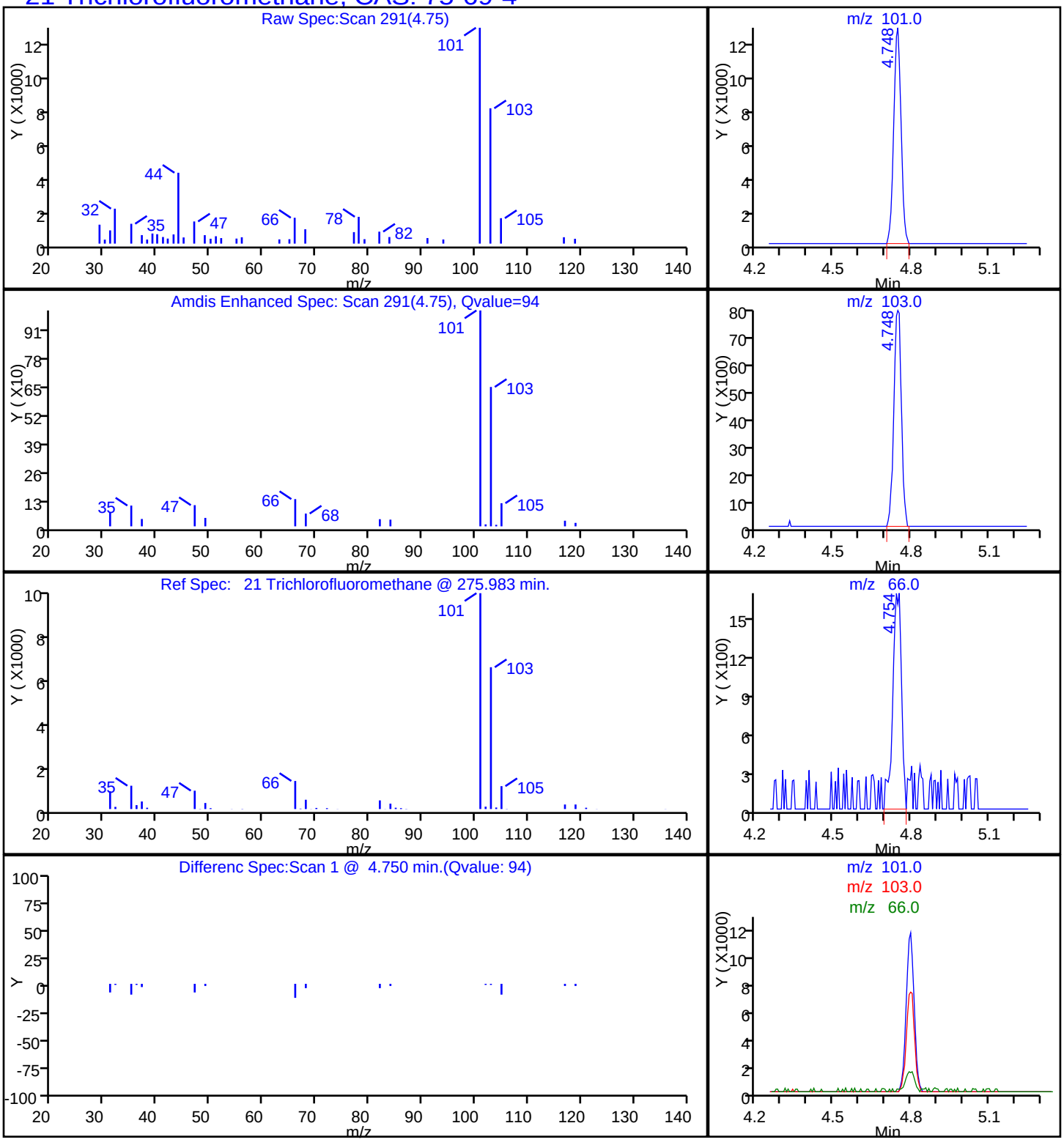
Report Date: 24-Mar-2014 15:48:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P109.D

Injection Date:	14-Mar-2014 22:59:30	Instrument ID:	ME
Lims ID:	140-1041-A-9	Lab Sample ID:	140-1041-9
Client ID:	PCV-IA1-B14		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.42		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.048	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.35	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.73		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.084	J	0.50	0.045
67-64-1	Acetone	58.08	3.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.072	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.043	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	13		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.075	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.43	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.067	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.27		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	2.5		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.34	J	2.0	0.18
67-64-1	Acetone	58.08	8.4	J	12	3.3
71-43-2	Benzene	78.11	0.64		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.15	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	25		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.31	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.49	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.57	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.46	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1FD-B14 Lab Sample ID: 140-1041-10

Matrix: Air Lab File ID: EC14P110.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 23:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D
Lims ID: 140-1041-A-10 Lab Sample ID: 140-1041-10
Client ID: PCV-IA1FD-B14
Sample Type: Client
Inject. Date: 14-Mar-2014 23:45:30 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-10
Misc. Info.: E031414,TO155,,140-0000522-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:49:51 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:31:56

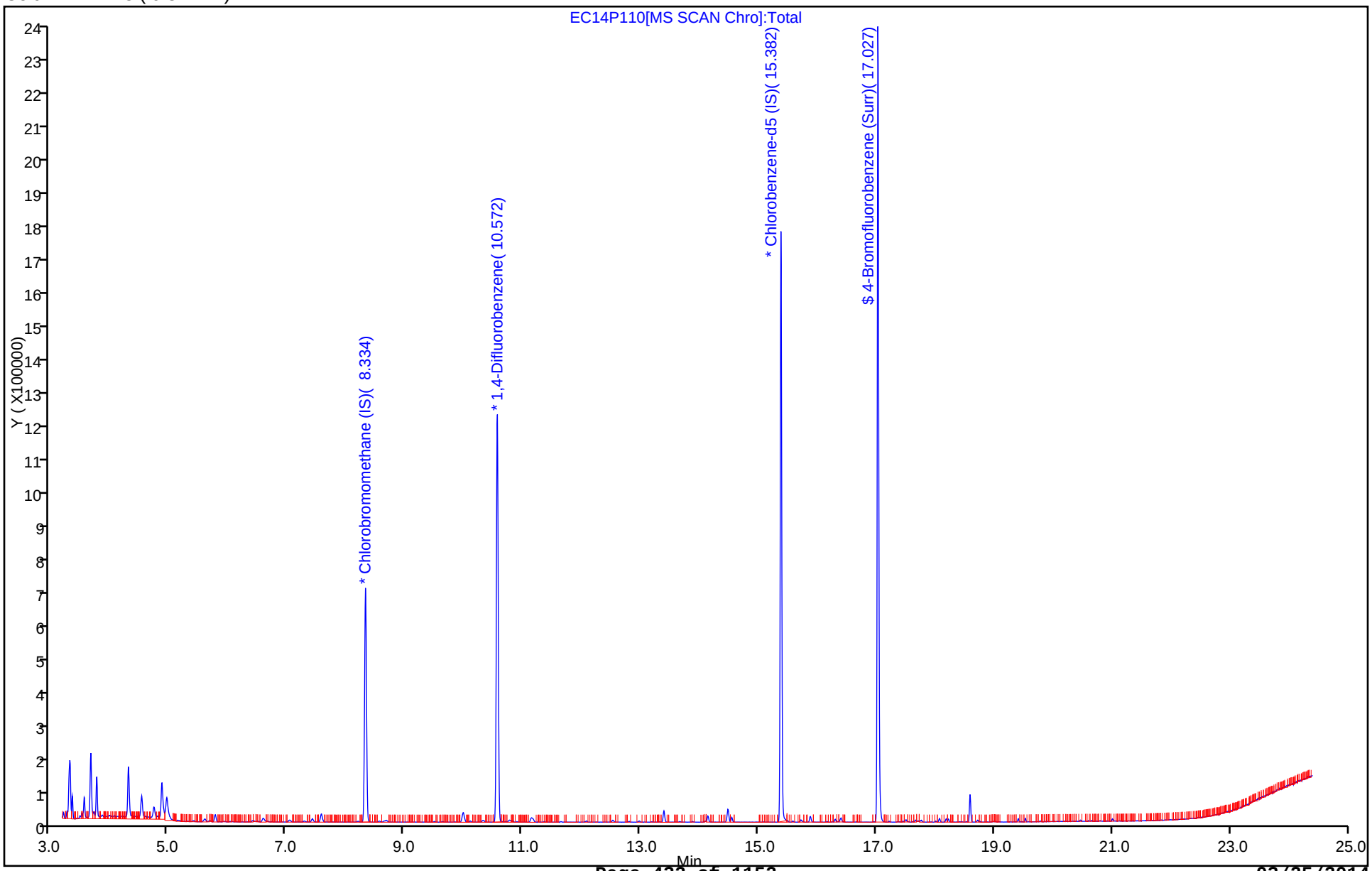
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	204494	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	964546	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	864194	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	797266	4.21	
7 Propene	41	3.320	3.314	0.006	68	21782	0.4234	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	45117	0.1994	
9 Chloromethane	52	3.535	3.530	0.005	97	3518	0.1948	
17 Ethanol	31	4.312	4.317	-0.005	98	110240	5.39	
19 2-Methylbutane	43	4.538	4.538	0.0	85	20991	0.2931	
21 Trichlorofluoromethane	101	4.749	4.748	0.0	93	24606	0.1084	
23 Acetone	58	4.878	4.883	-0.005	93	43570	1.41	
24 Isopropyl alcohol	45	4.975	4.975	0.0	86	39146	0.4909	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.611	0.006	69	3909	0.0278	
31 Methylene Chloride	84	5.789	5.795	-0.006	76	10130	0.1734	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	91	4732	0.1414	
40 Hexane	56	7.590	7.590	0.0	57	3055	0.0562	
49 Cyclohexane	69	10.001	9.984	0.017	31	625	0.0172	
48 Benzene	78	9.995	9.995	0.0	92	15599	0.0804	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	86	5336	0.0286	
53 Isooctane	57	10.783	10.788	-0.005	74	5732	0.0191	
54 n-Heptane	71	11.176	11.182	-0.006	52	2201	0.0300	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	79	3821	0.0334	
65 Toluene	91	13.398	13.403	-0.005	91	24705	0.1067	
73 Tetrachloroethene	129	14.546	14.552	-0.006	79	2661	0.0270	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	91	12158	0.0521	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	89	28404	0.1674	

Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

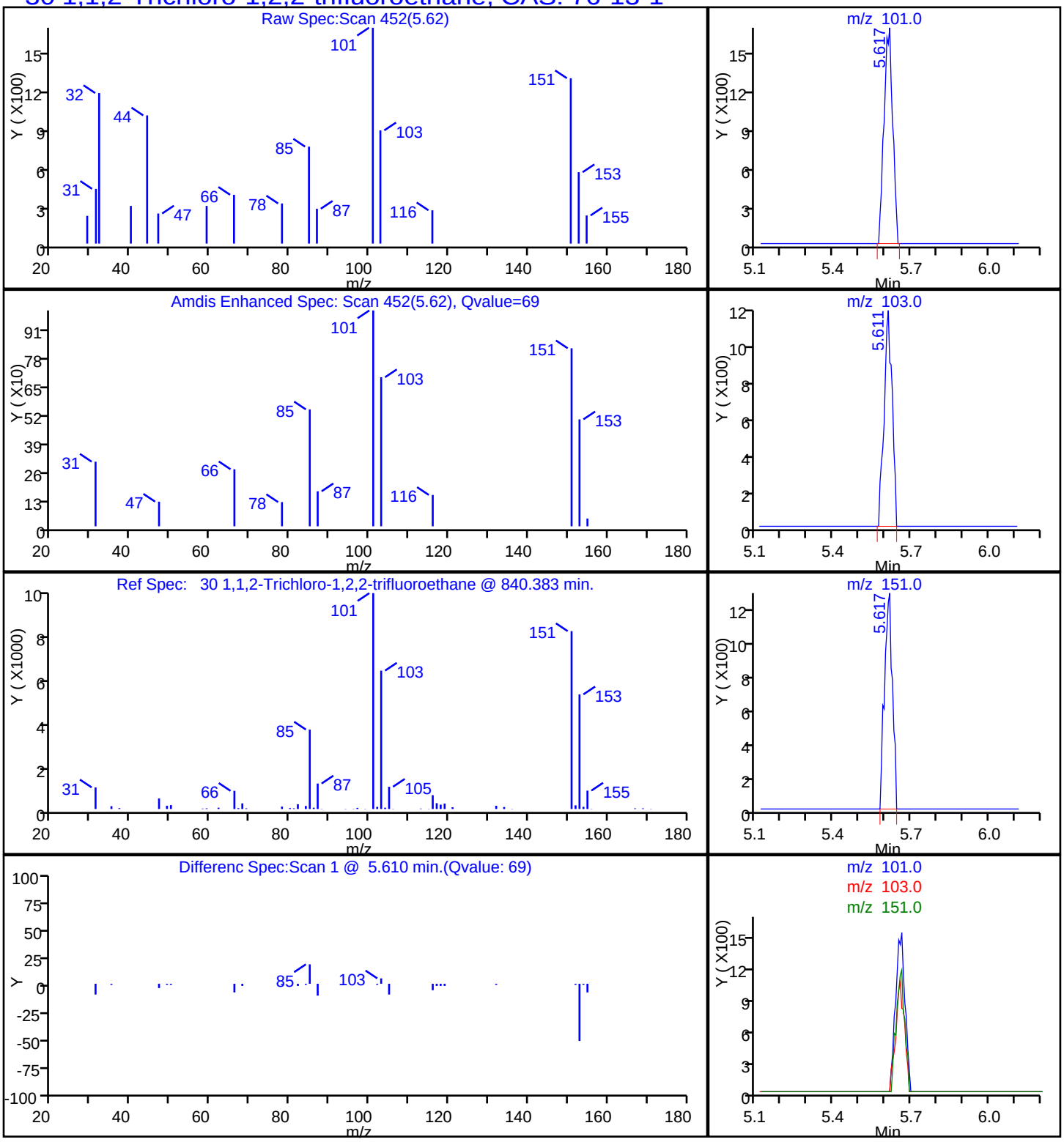
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D				
Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10	Worklist Smp#:	15
Client ID:	PCV-IA1FD-B14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D
Injection Date: 14-Mar-2014 23:45:30 Instrument ID: ME
Lims ID: 140-1041-A-10 Lab Sample ID: 140-1041-10
Client ID: PCV-IA1FD-B14
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



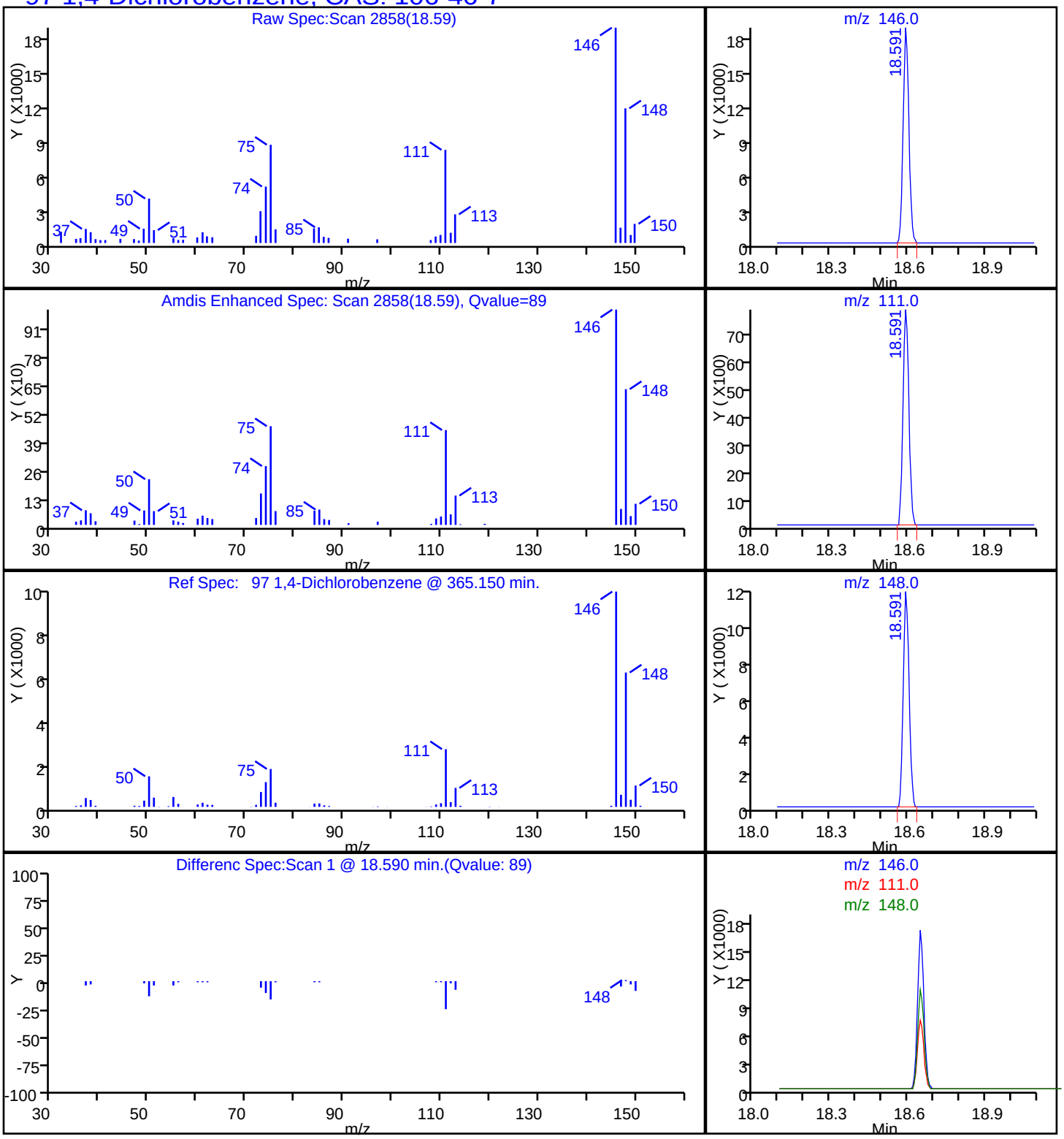
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



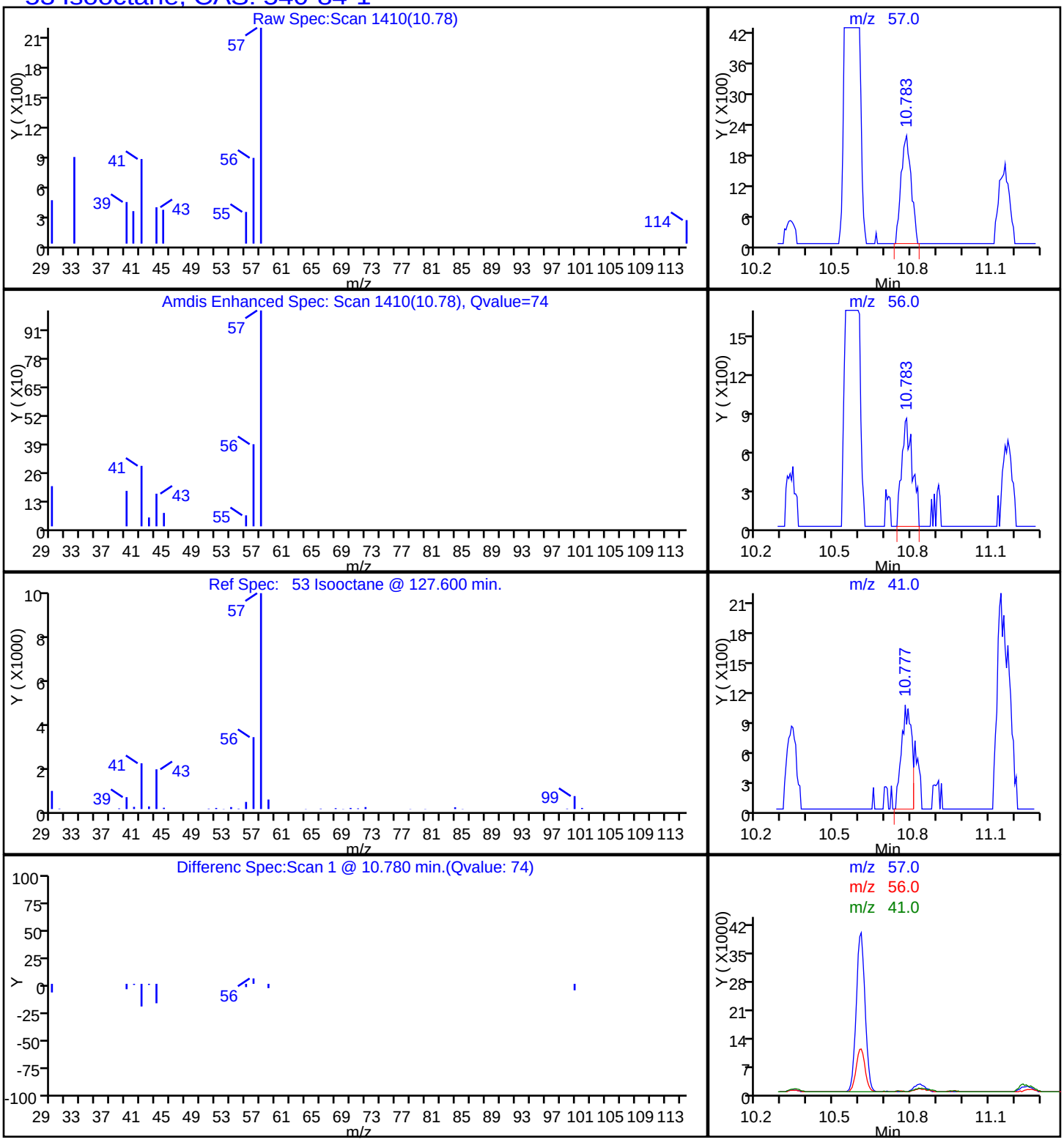
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



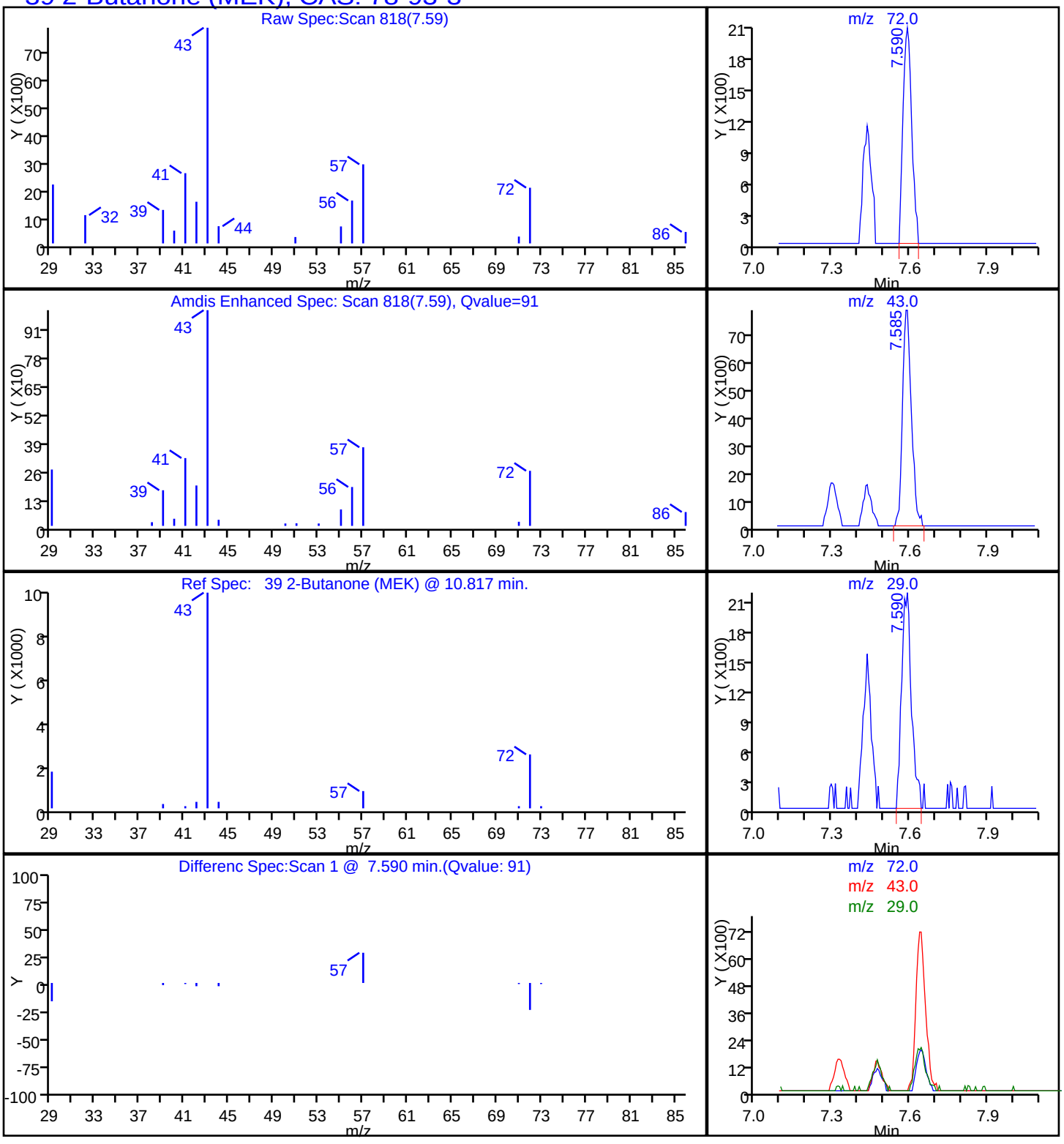
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



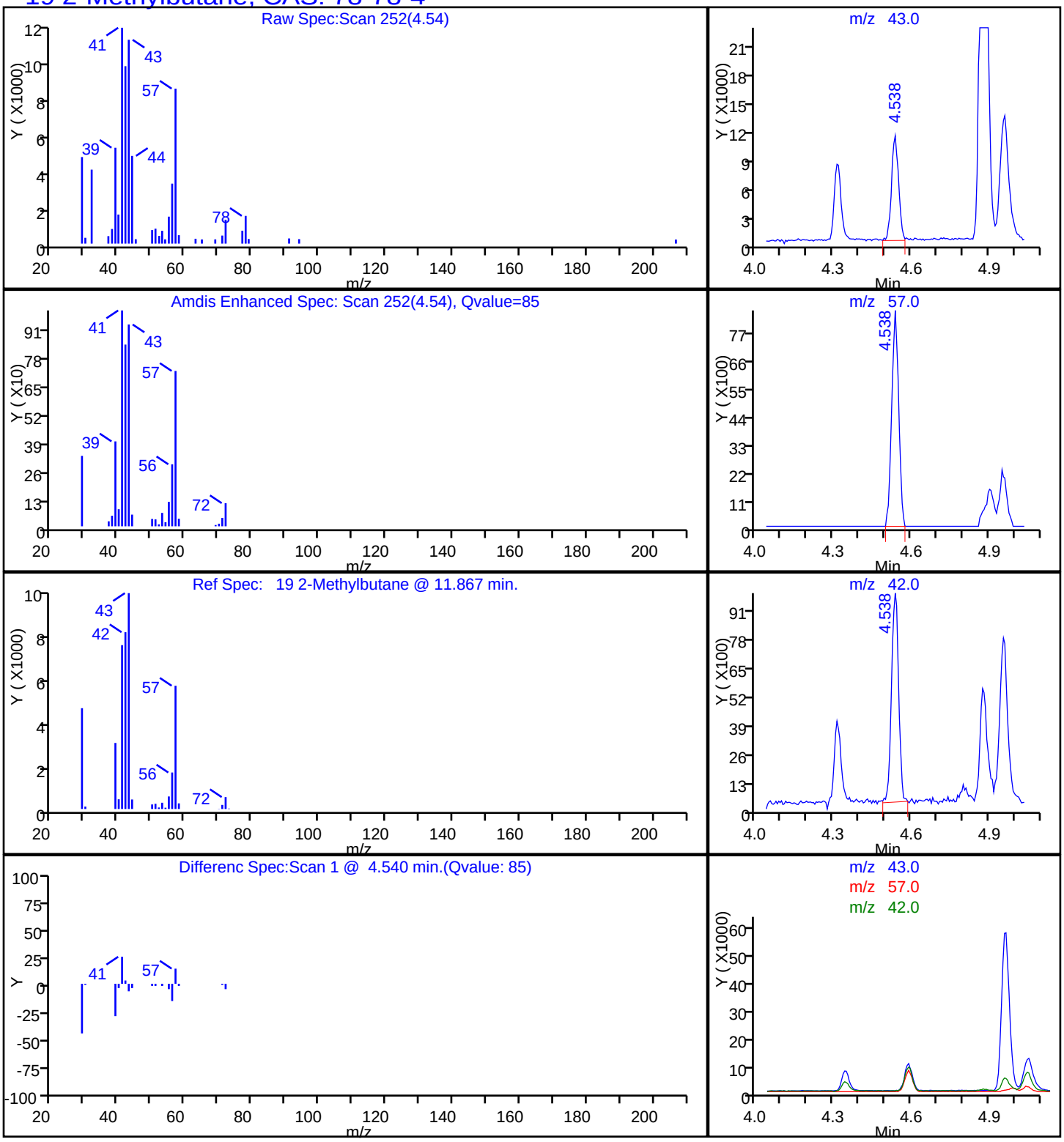
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



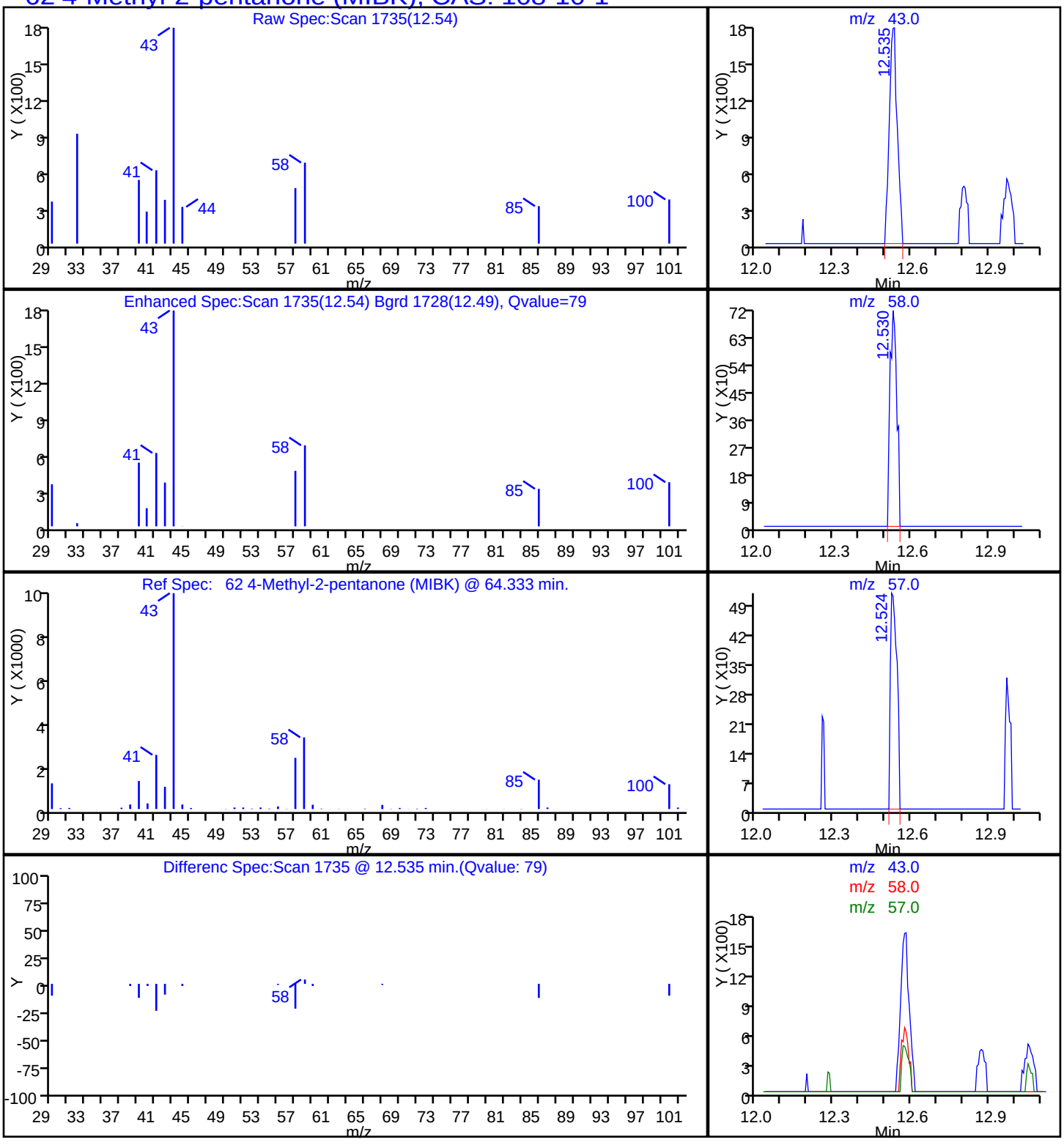
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



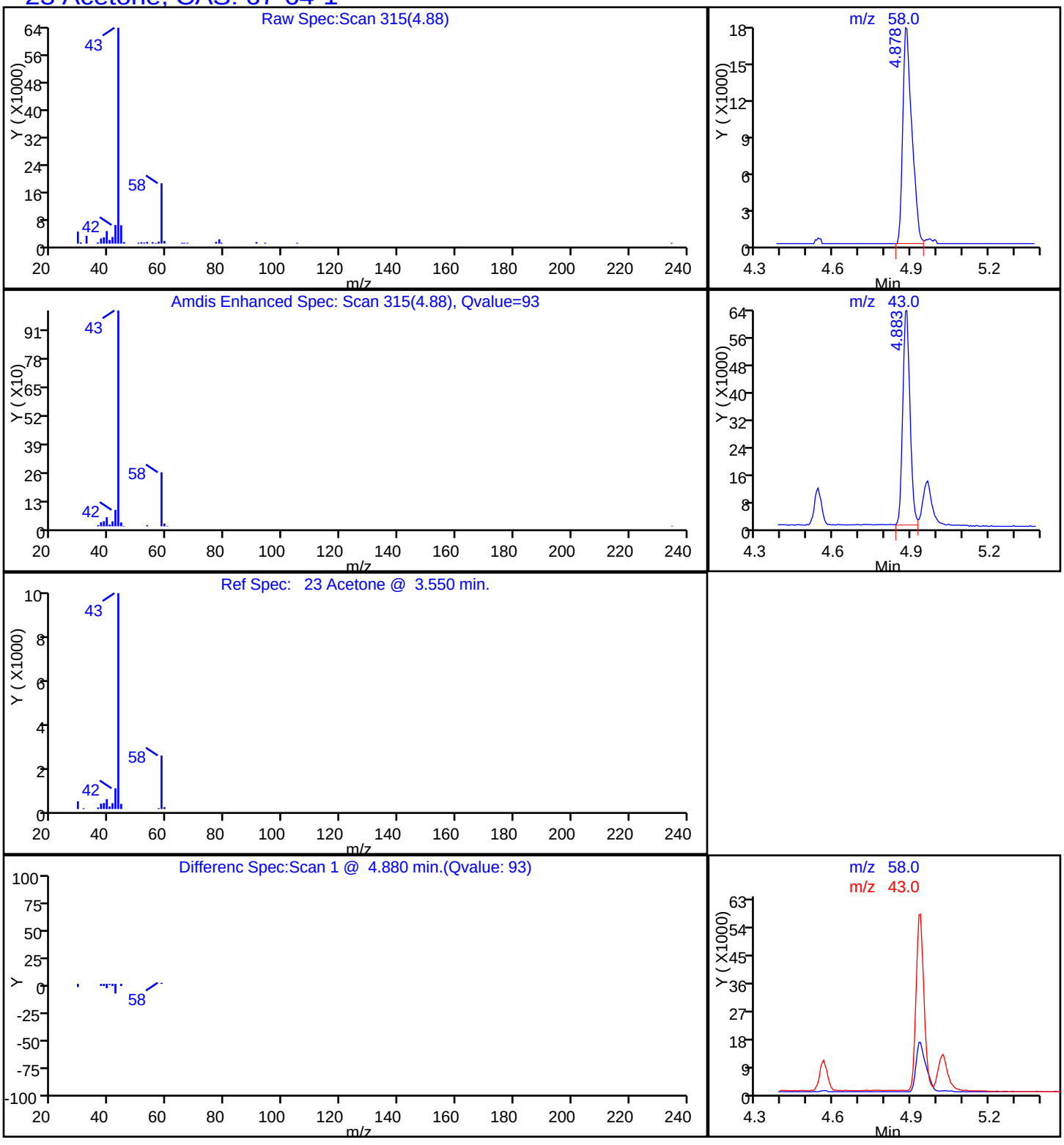
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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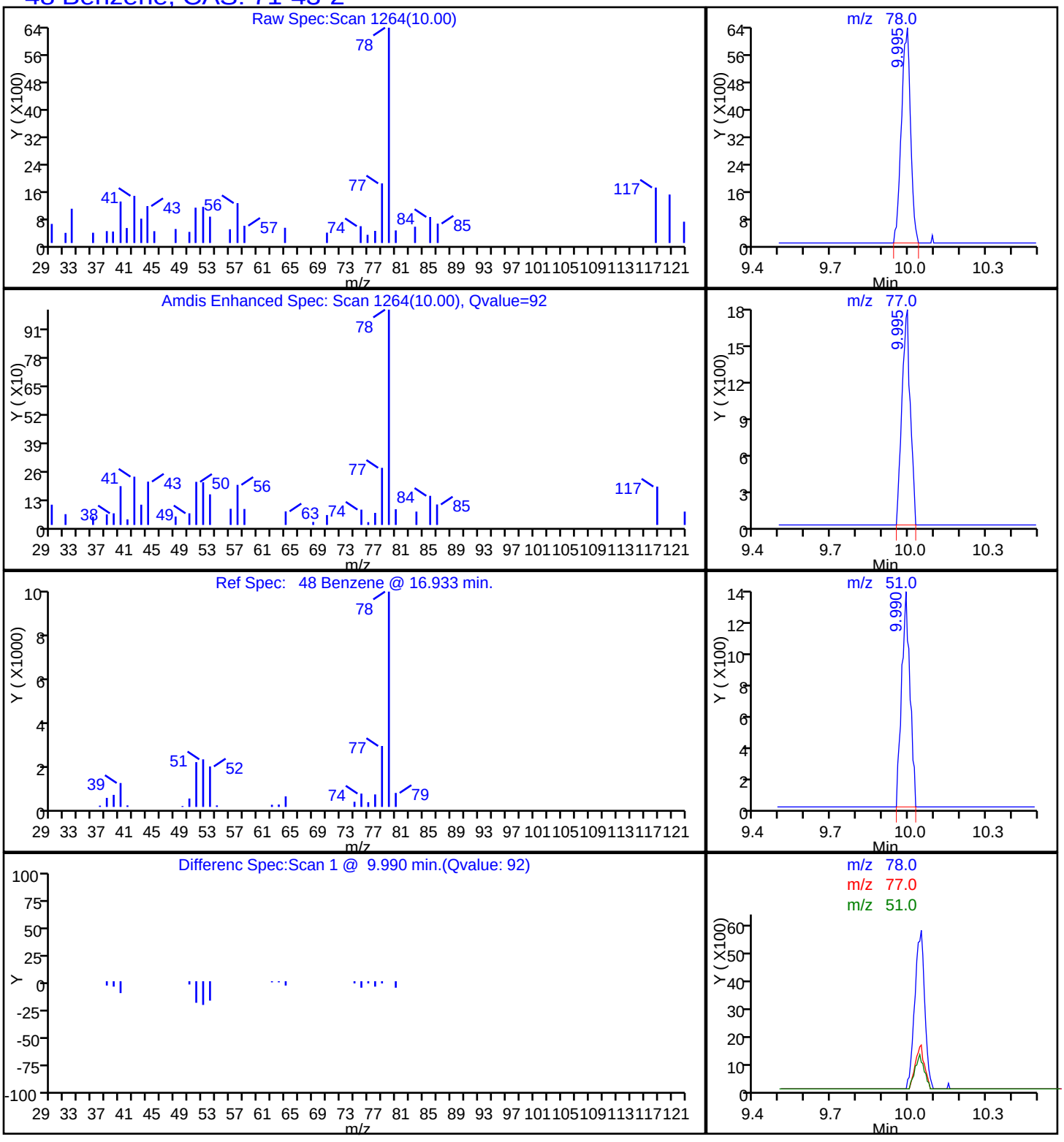
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



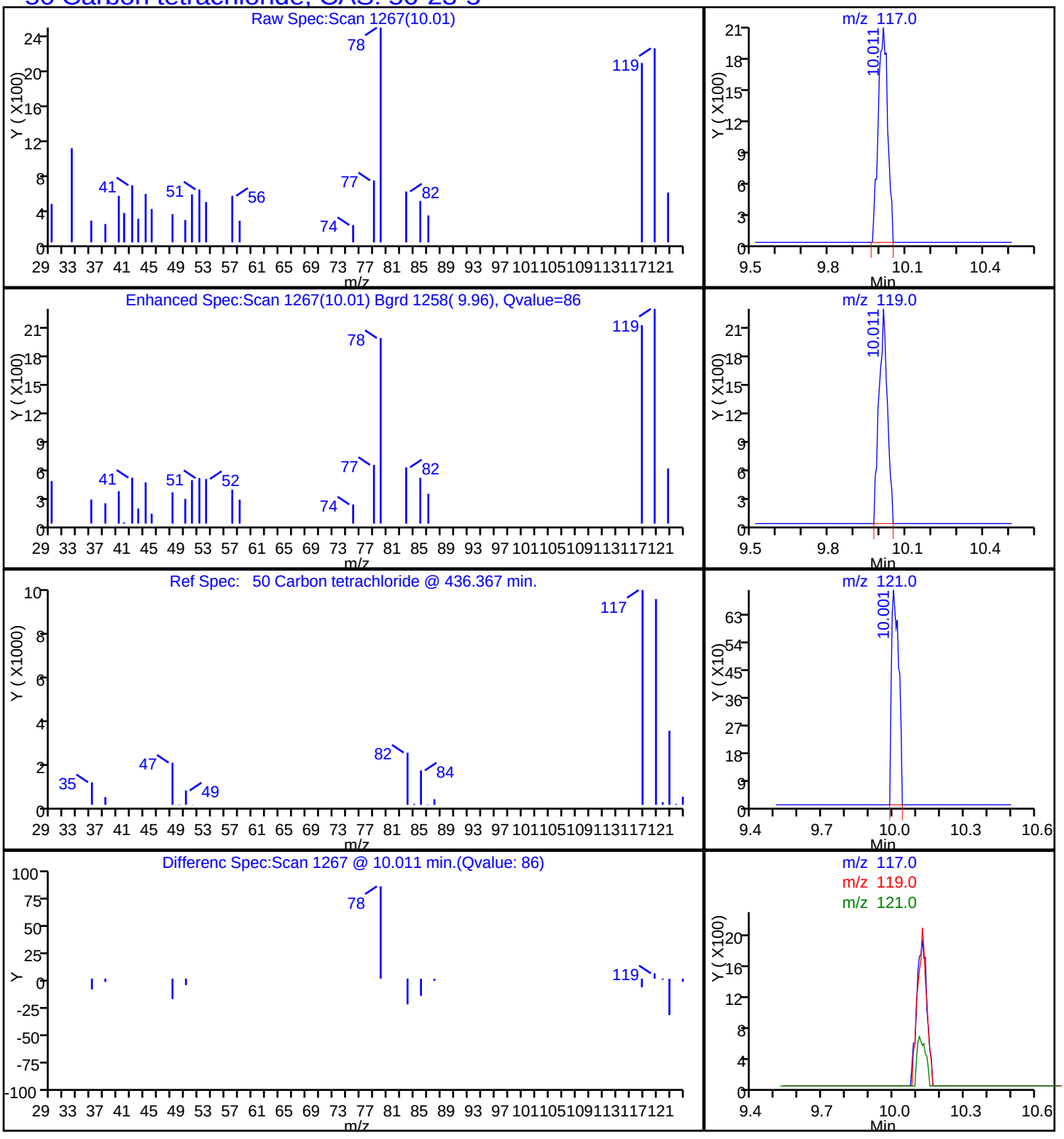
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

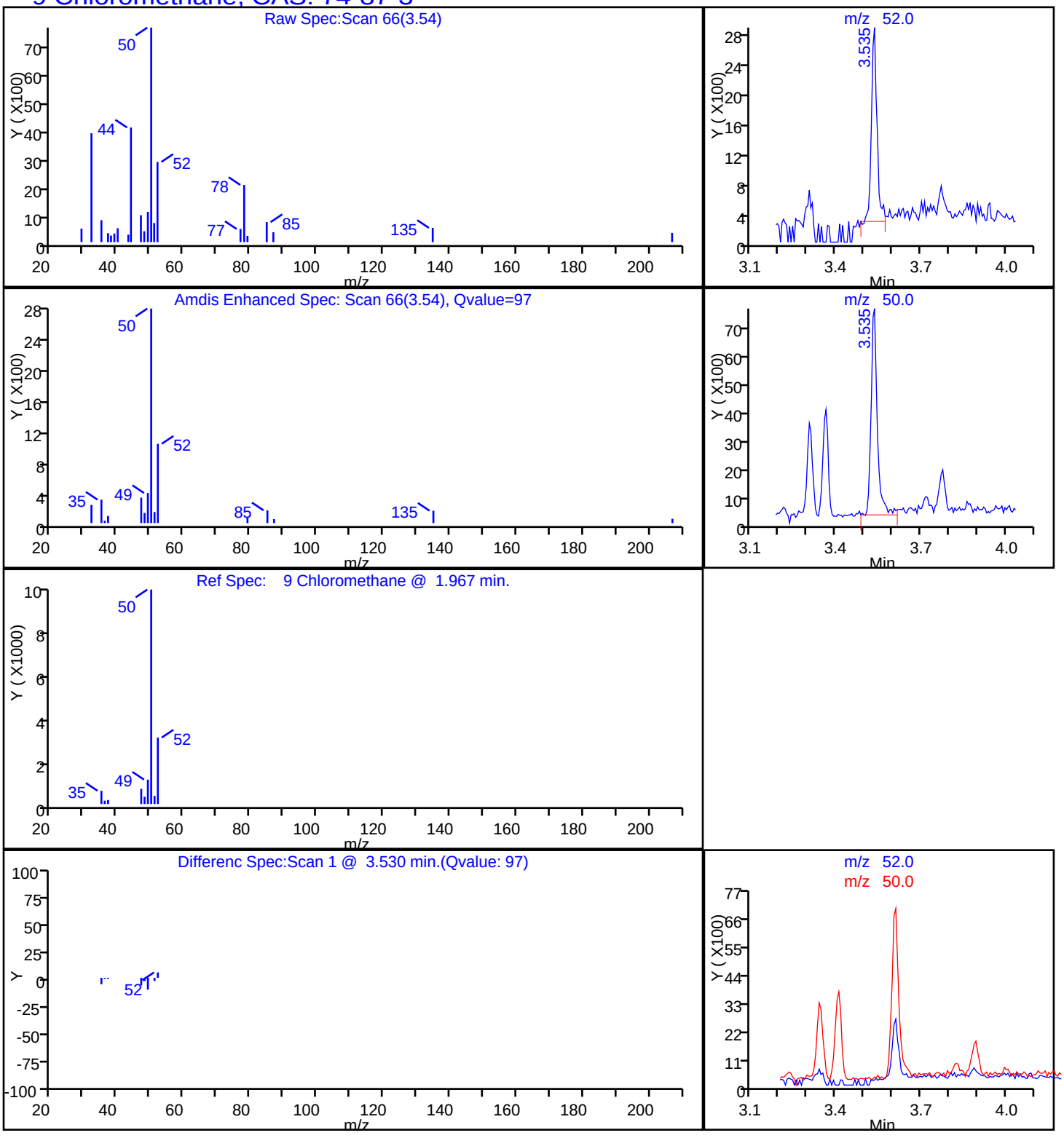
Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D
Injection Date: 14-Mar-2014 23:45:30 Instrument ID: ME
Lims ID: 140-1041-A-10 Lab Sample ID: 140-1041-10
Client ID: PCV-IA1FD-B14
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



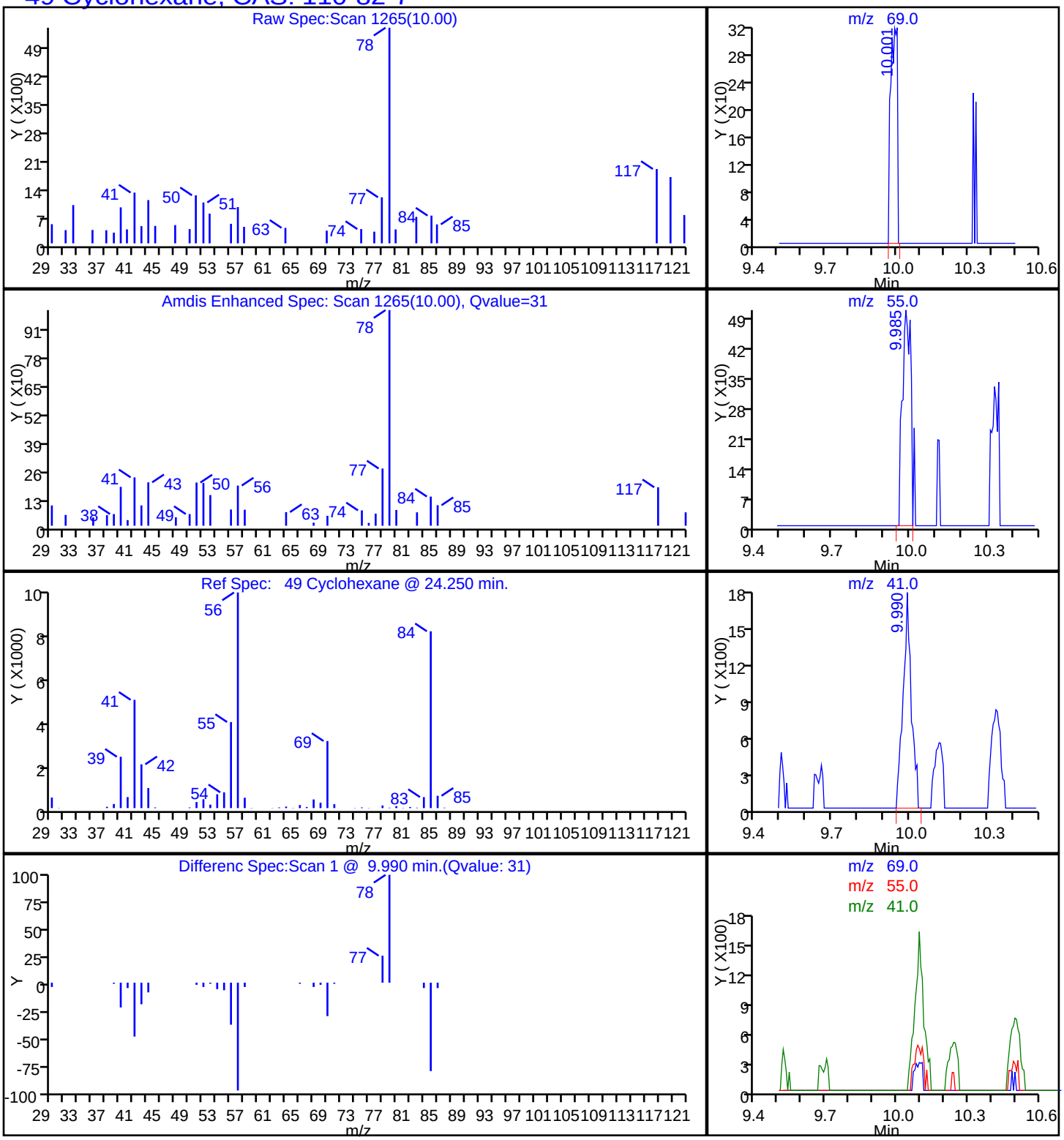
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



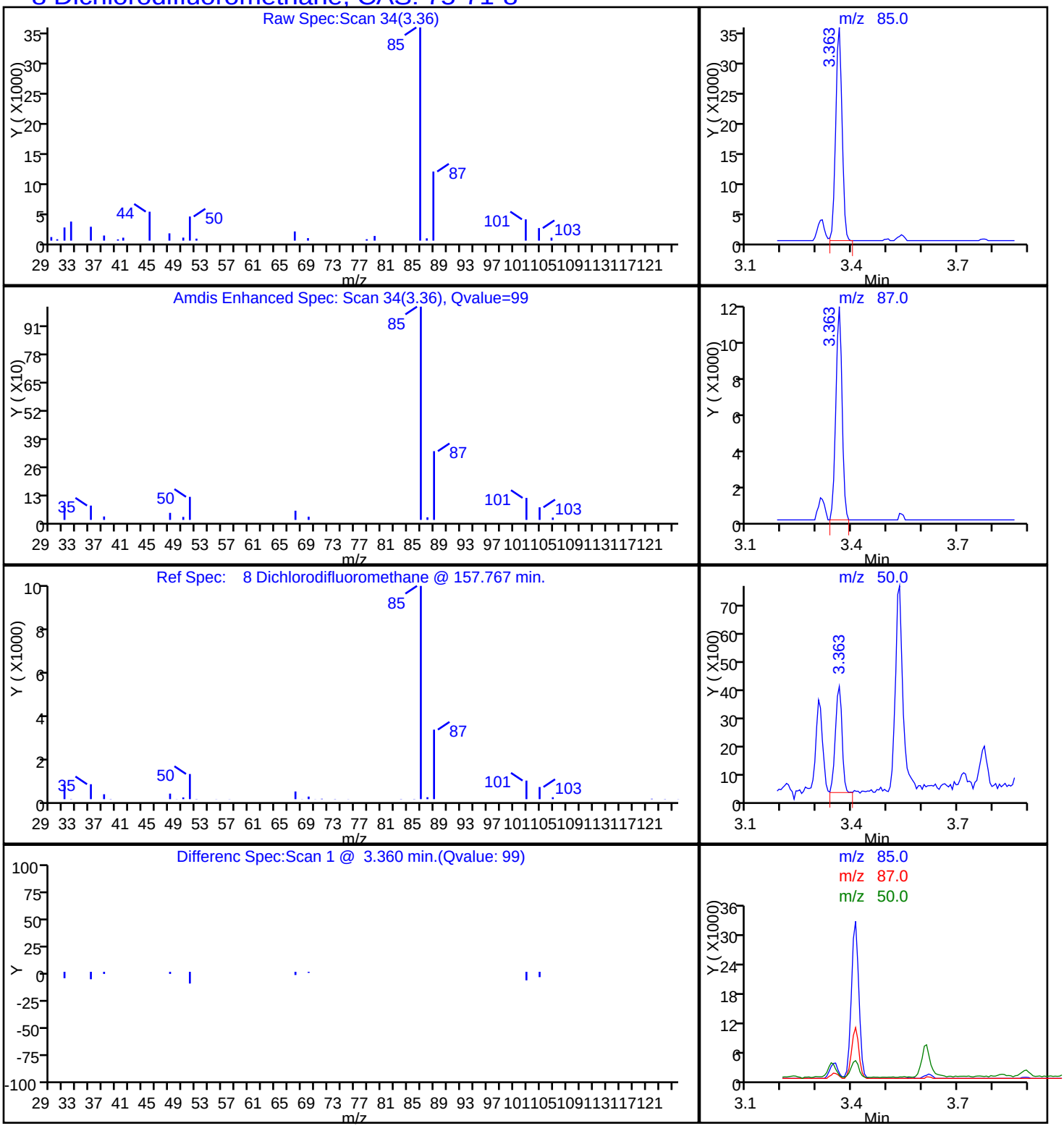
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

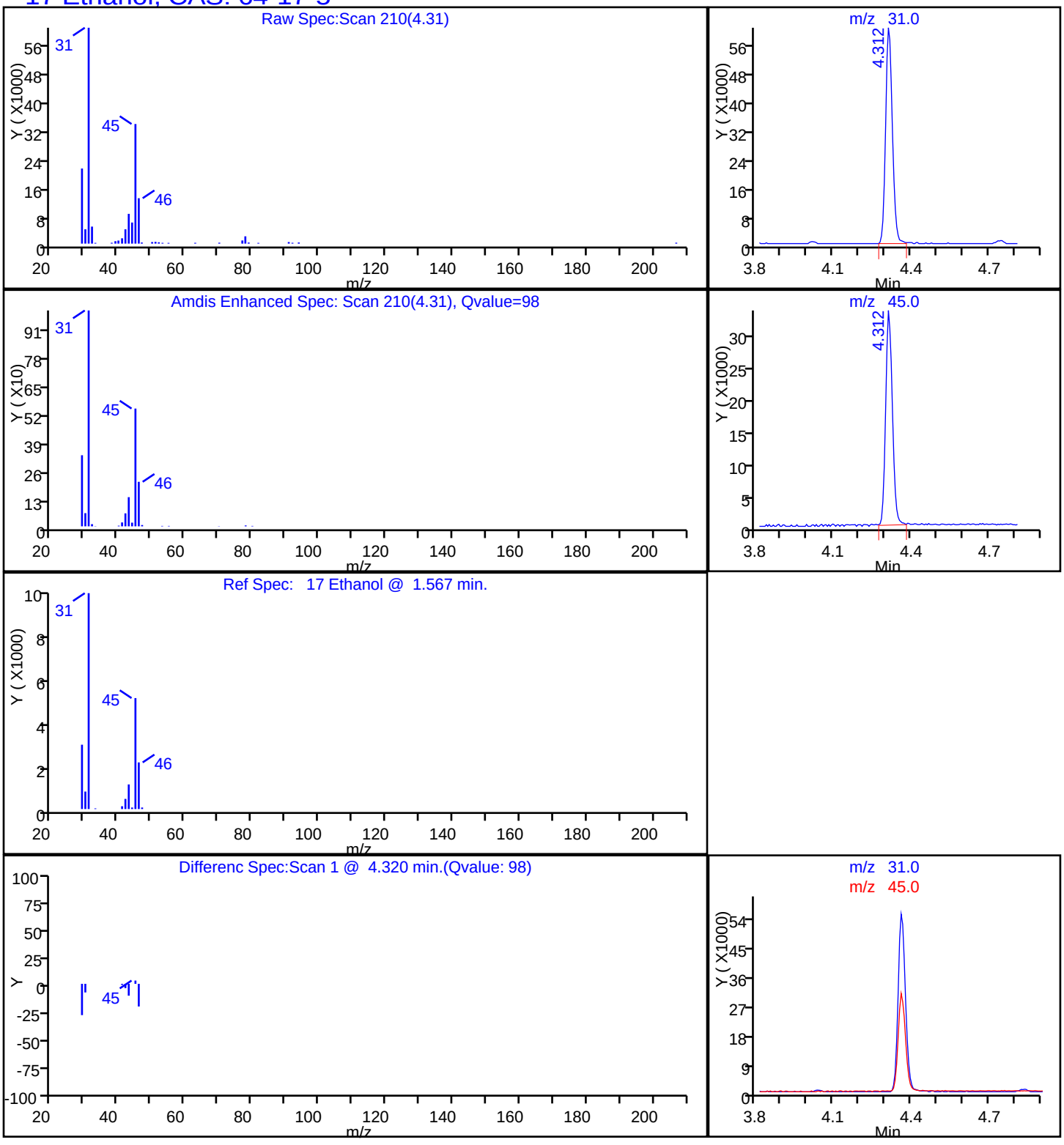


Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D		
Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



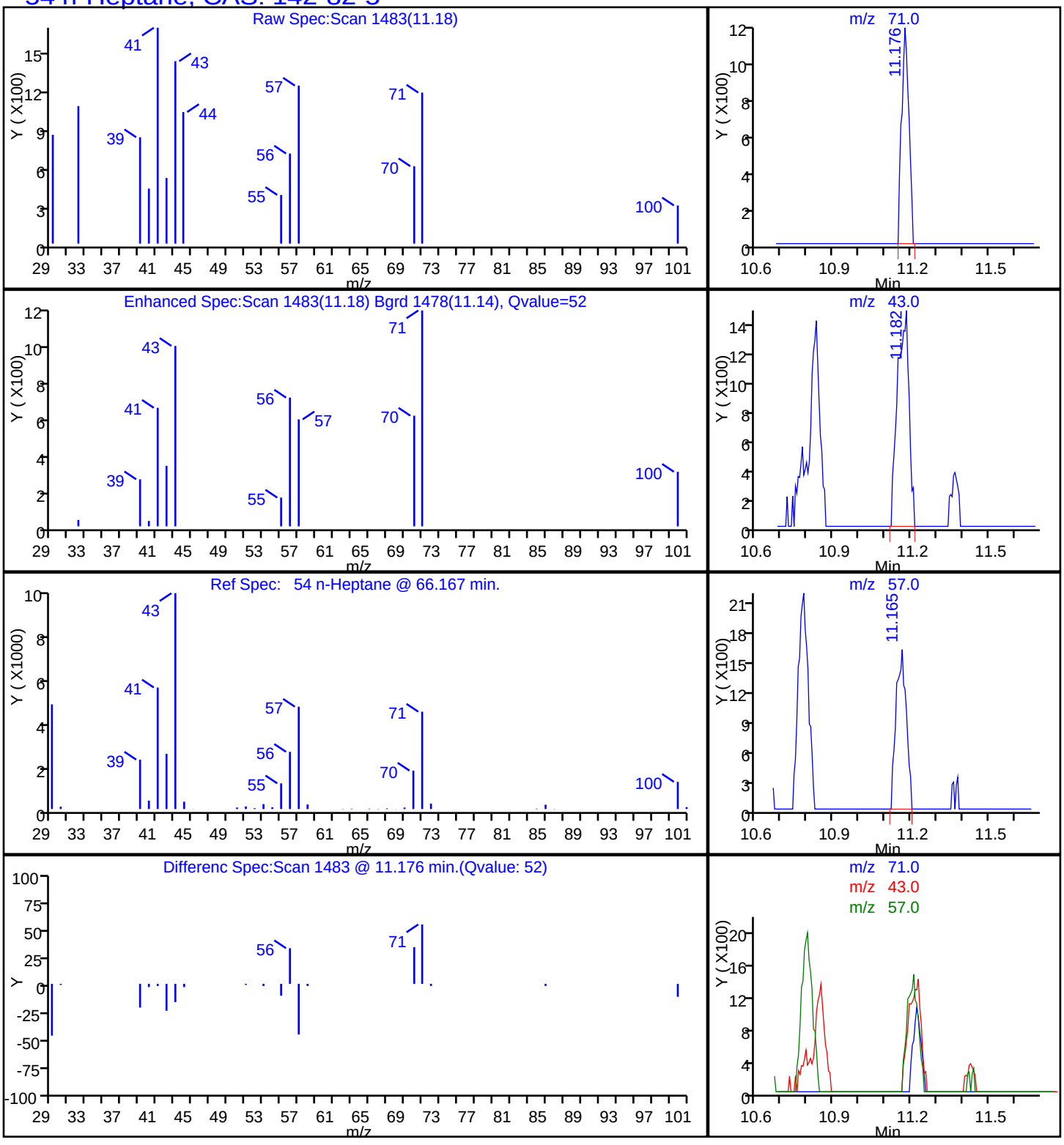
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

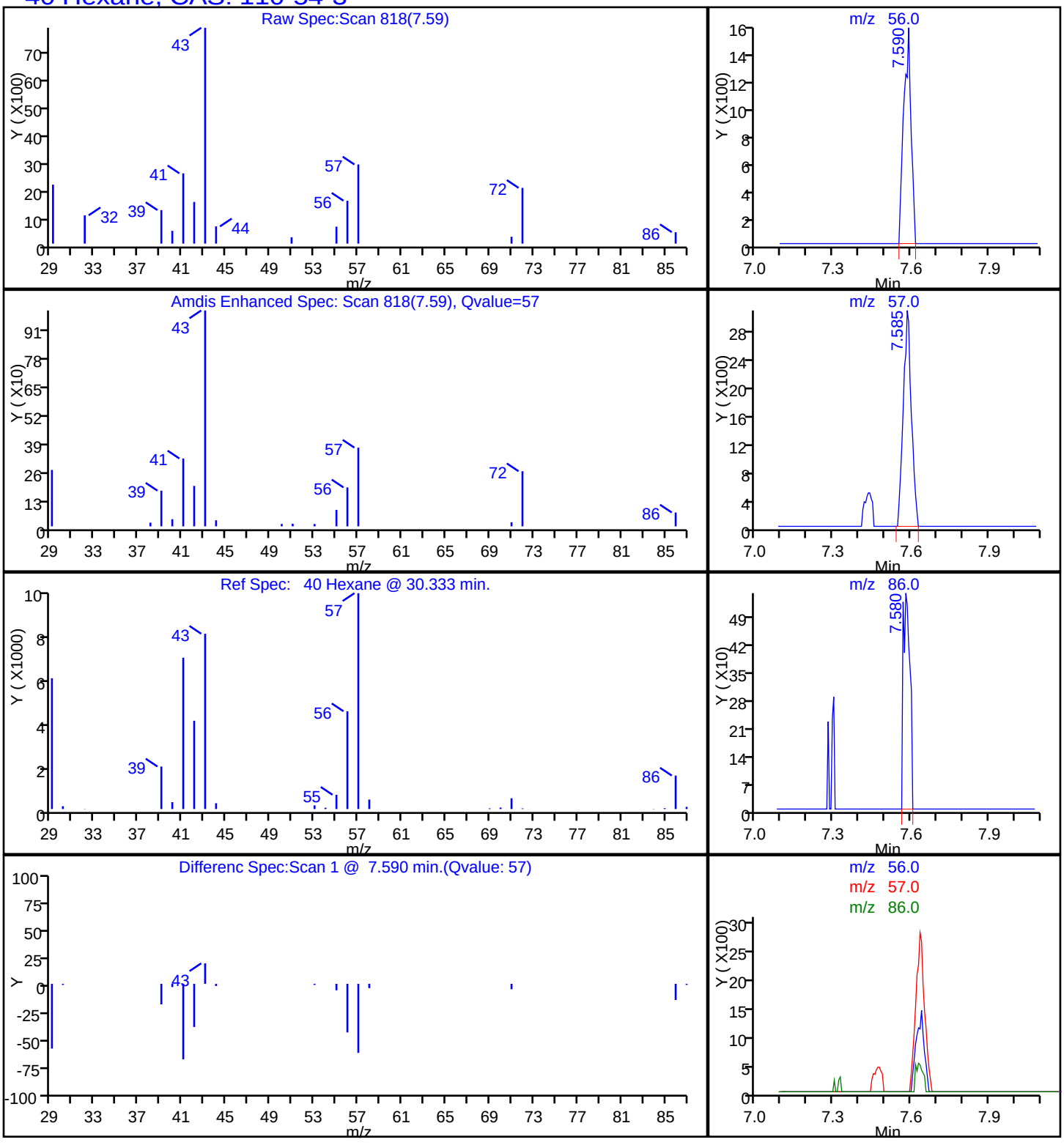


Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D		
Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



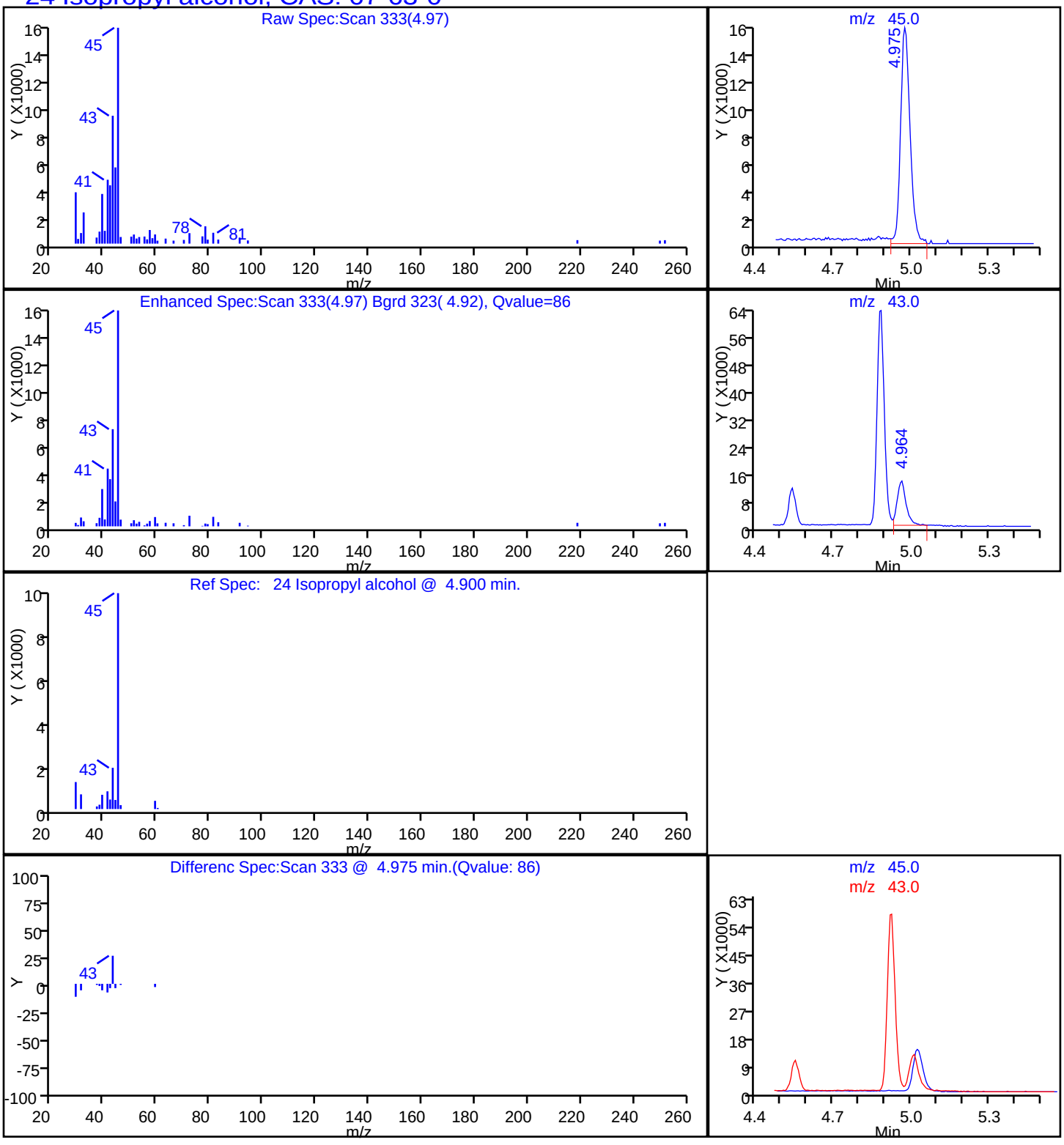
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



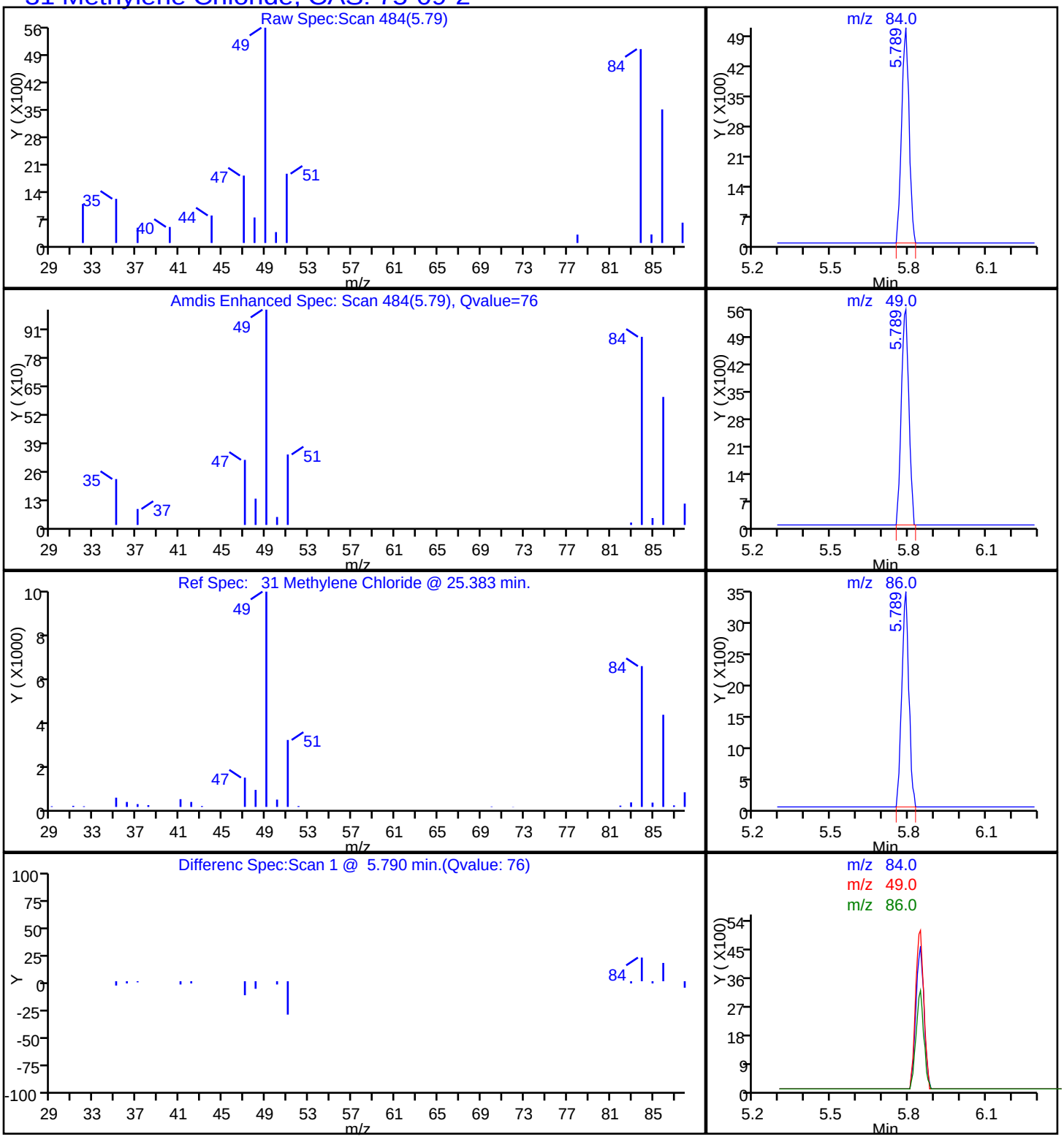
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



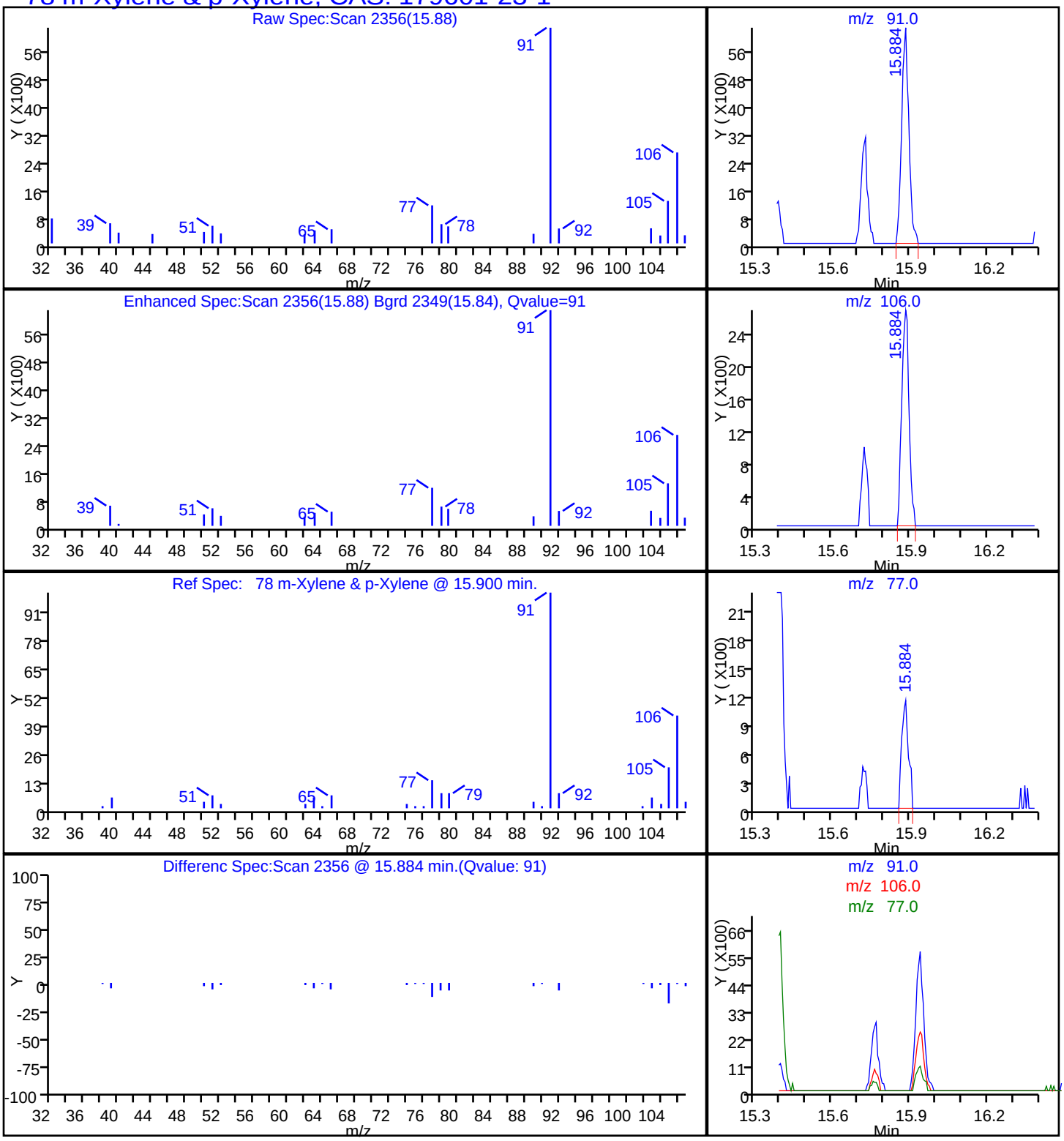
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



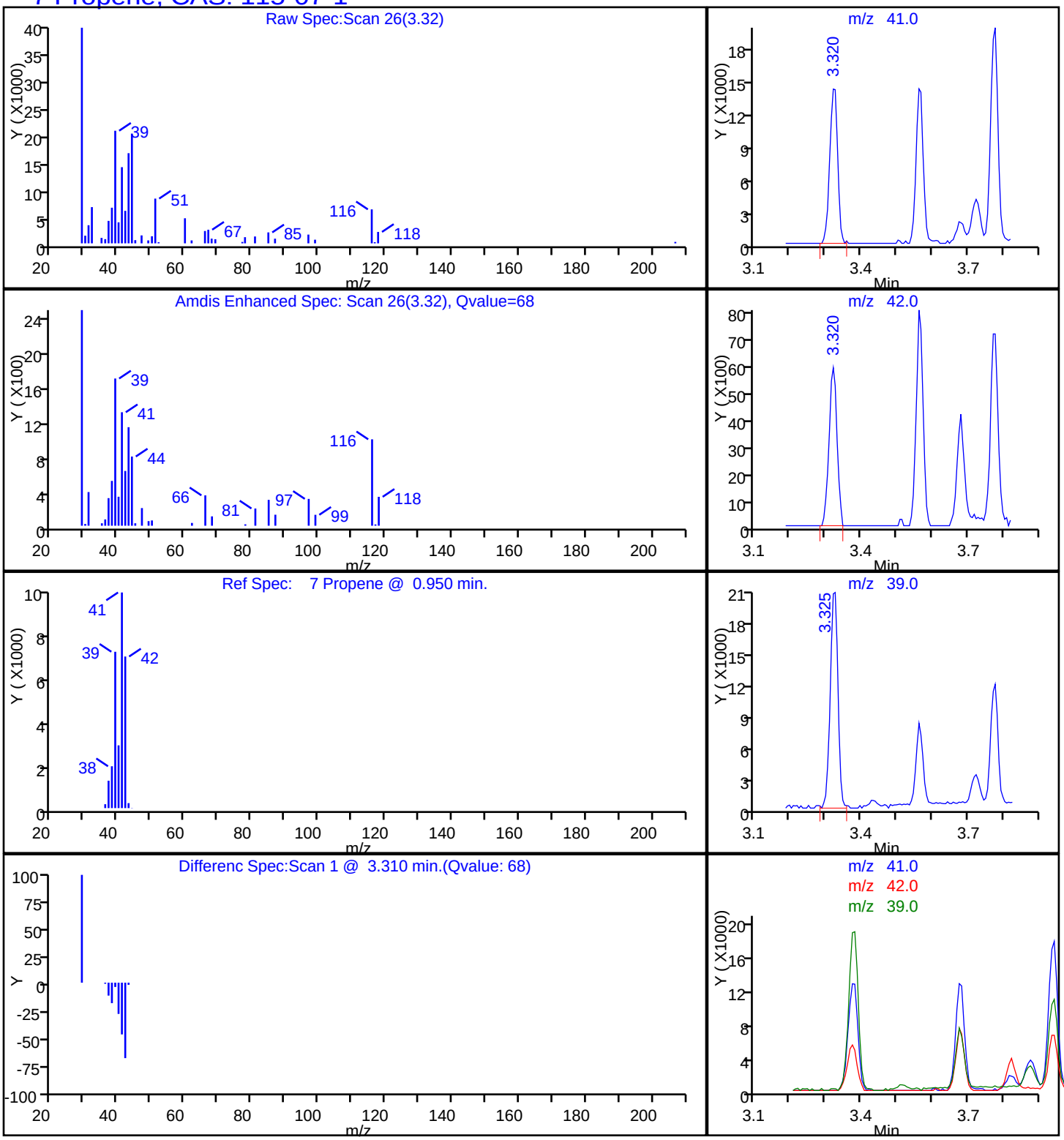
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



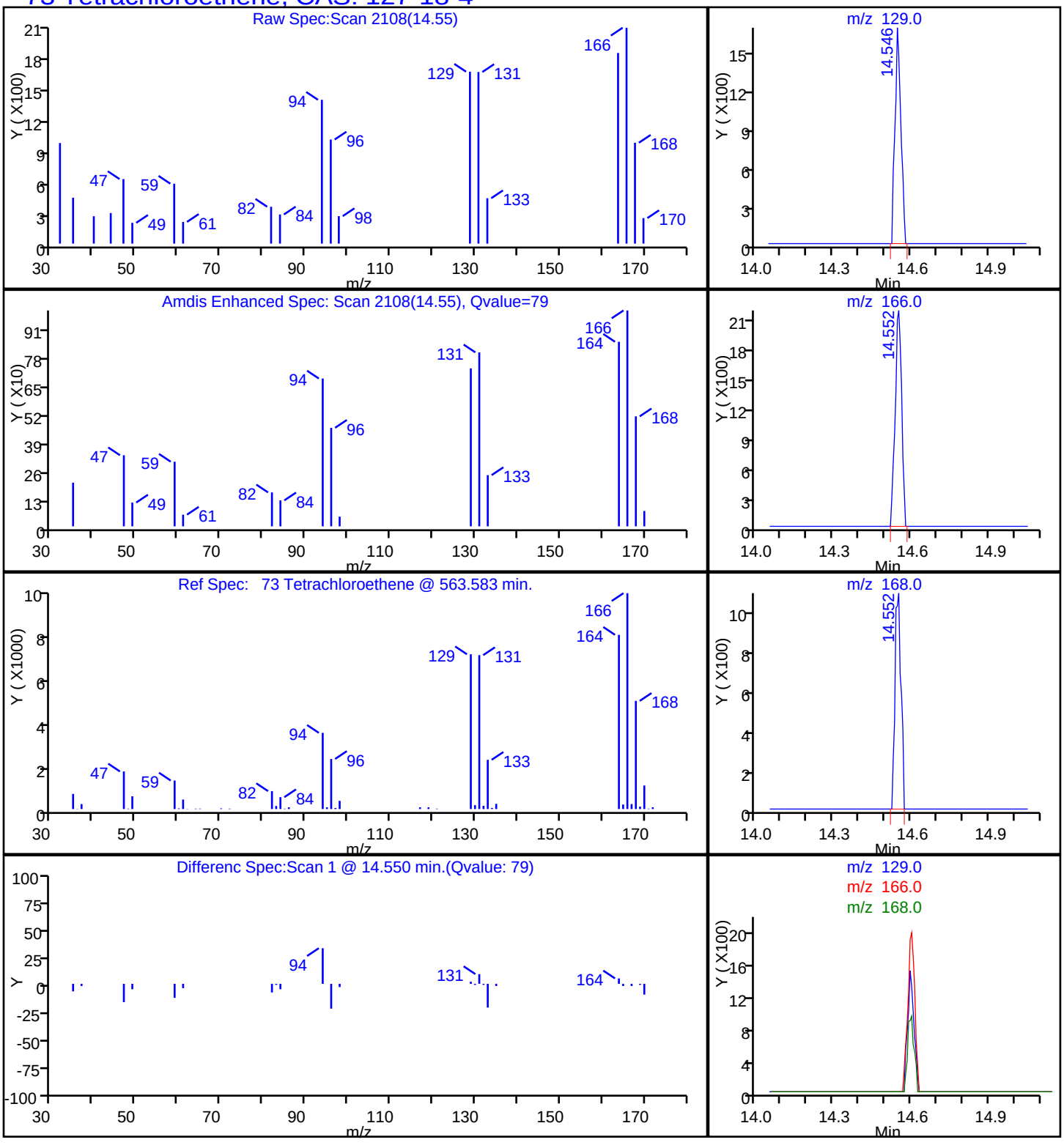
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10
Client ID:	PCV-IA1FD-B14		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



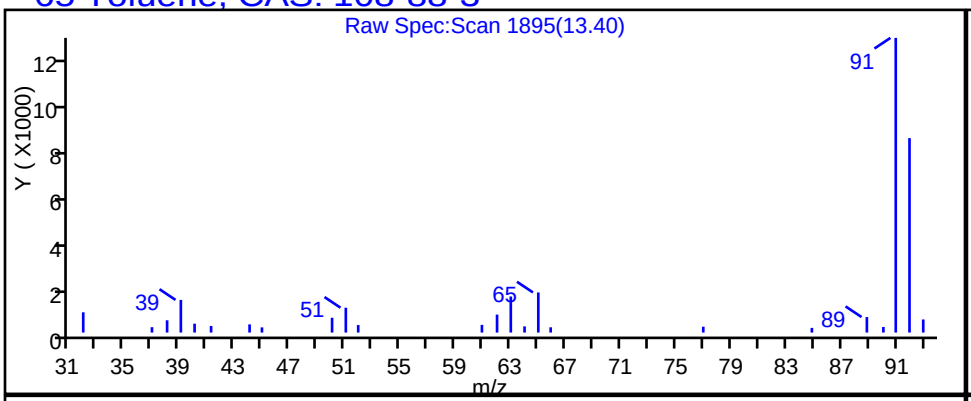
Report Date: 24-Mar-2014 15:49:53 Chrom Revision: 2.2 12-Mar-2014 11:19:24

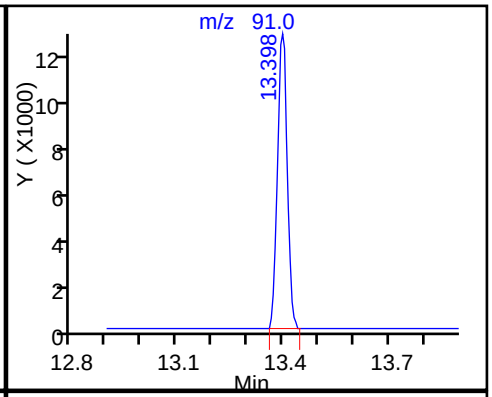
TestAmerica Knoxville

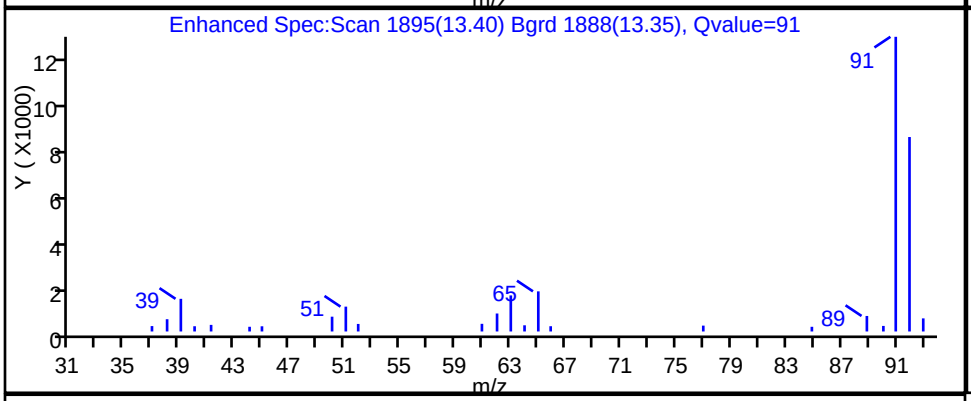
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

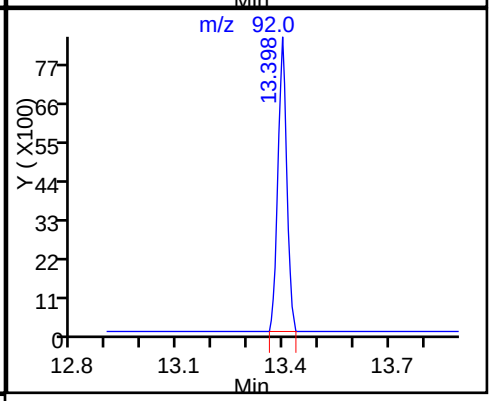
Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

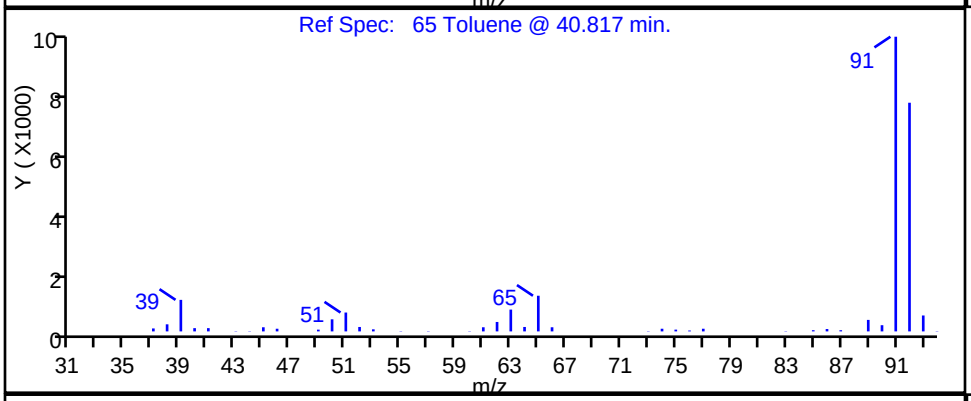
65 Toluene, CAS: 108-88-3

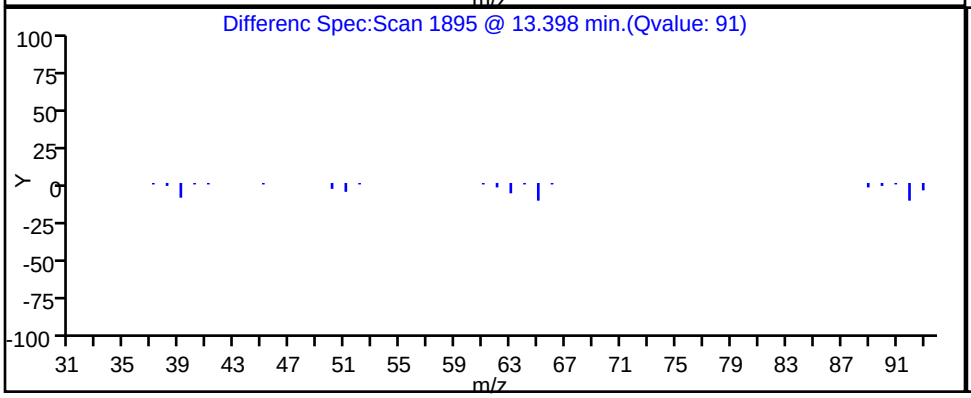


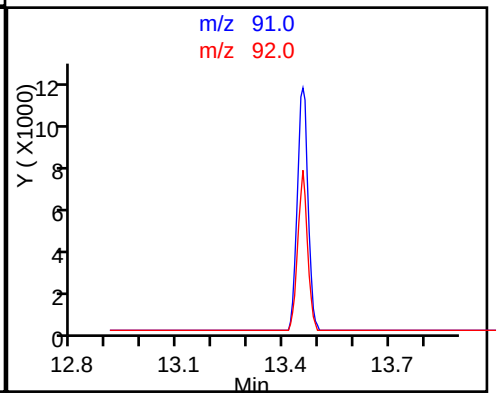












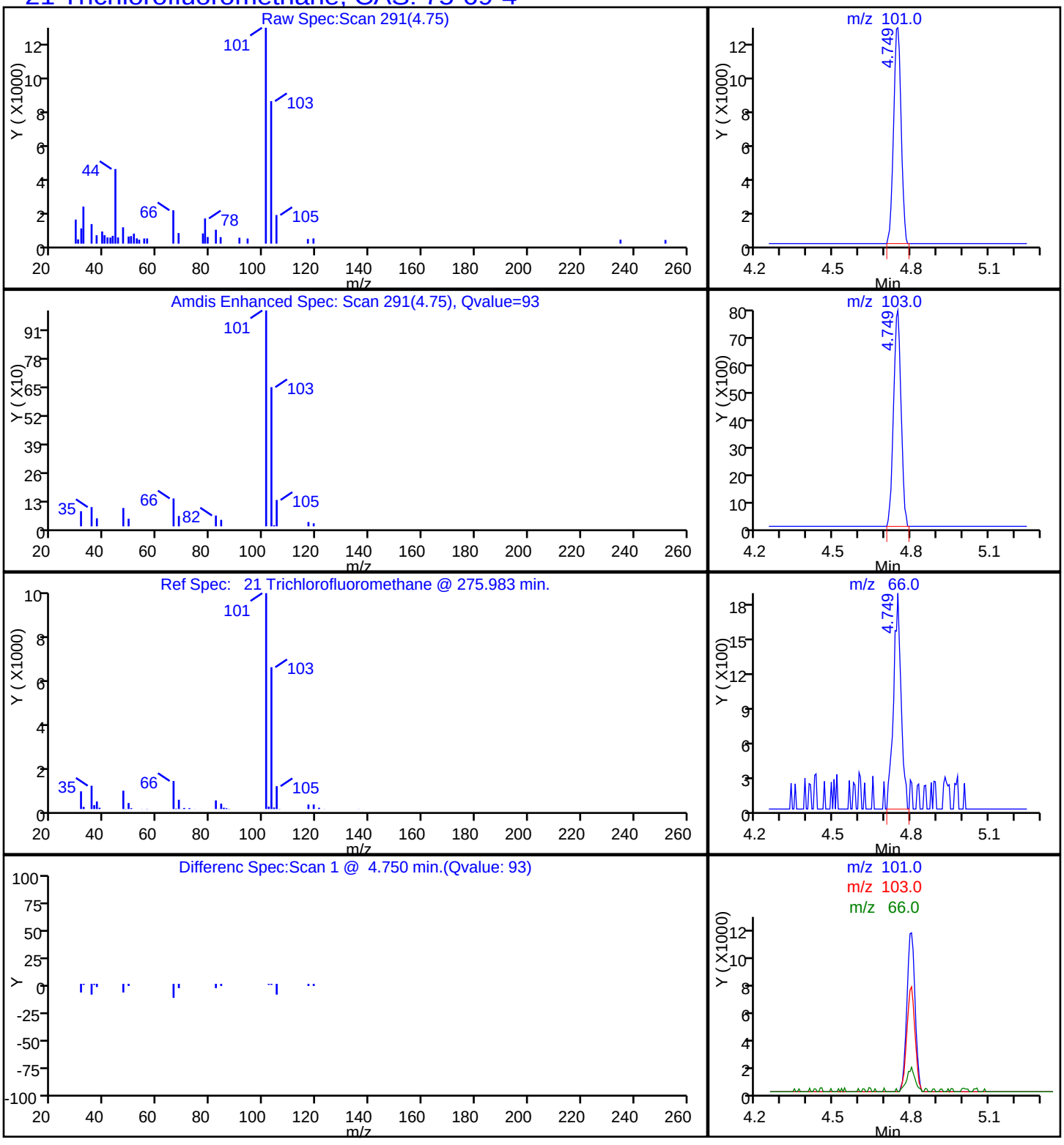
Report Date: 24-Mar-2014 15:49:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P110.D

Injection Date:	14-Mar-2014 23:45:30	Instrument ID:	ME		
Lims ID:	140-1041-A-10	Lab Sample ID:	140-1041-10		
Client ID:	PCV-IA1FD-B14				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 | Lab Sample ID: 140-1041-11

Matrix: Air | Lab File ID: EC14P111.D

Analysis Method: TO-15 | Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) | Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 958 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.38		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.051	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.35	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.85		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.052	J	0.50	0.045
67-64-1	Acetone	58.08	6.1		5.0	1.4
71-43-2	Benzene	78.11	0.21		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 Lab Sample ID: 140-1041-11

Matrix: Air Lab File ID: EC14P111.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.48	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	17		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.078	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	15		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.32	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.16	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.065	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.29		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 Lab Sample ID: 140-1041-11

Matrix: Air Lab File ID: EC14P111.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 Lab Sample ID: 140-1041-11

Matrix: Air Lab File ID: EC14P111.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	2.3		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.21	J	2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.67		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 Lab Sample ID: 140-1041-11

Matrix: Air Lab File ID: EC14P111.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.99	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	31		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.32	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.58	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	37		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.70	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.44	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B14 Lab Sample ID: 140-1041-11

Matrix: Air Lab File ID: EC14P111.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D
Lims ID: 140-1041-A-11 Lab Sample ID: 140-1041-11
Client ID: PCV-IA2-B14
Sample Type: Client
Inject. Date: 15-Mar-2014 00:31:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-11
Misc. Info.: E031414,TO155,,140-0000522-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:50:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:32:29

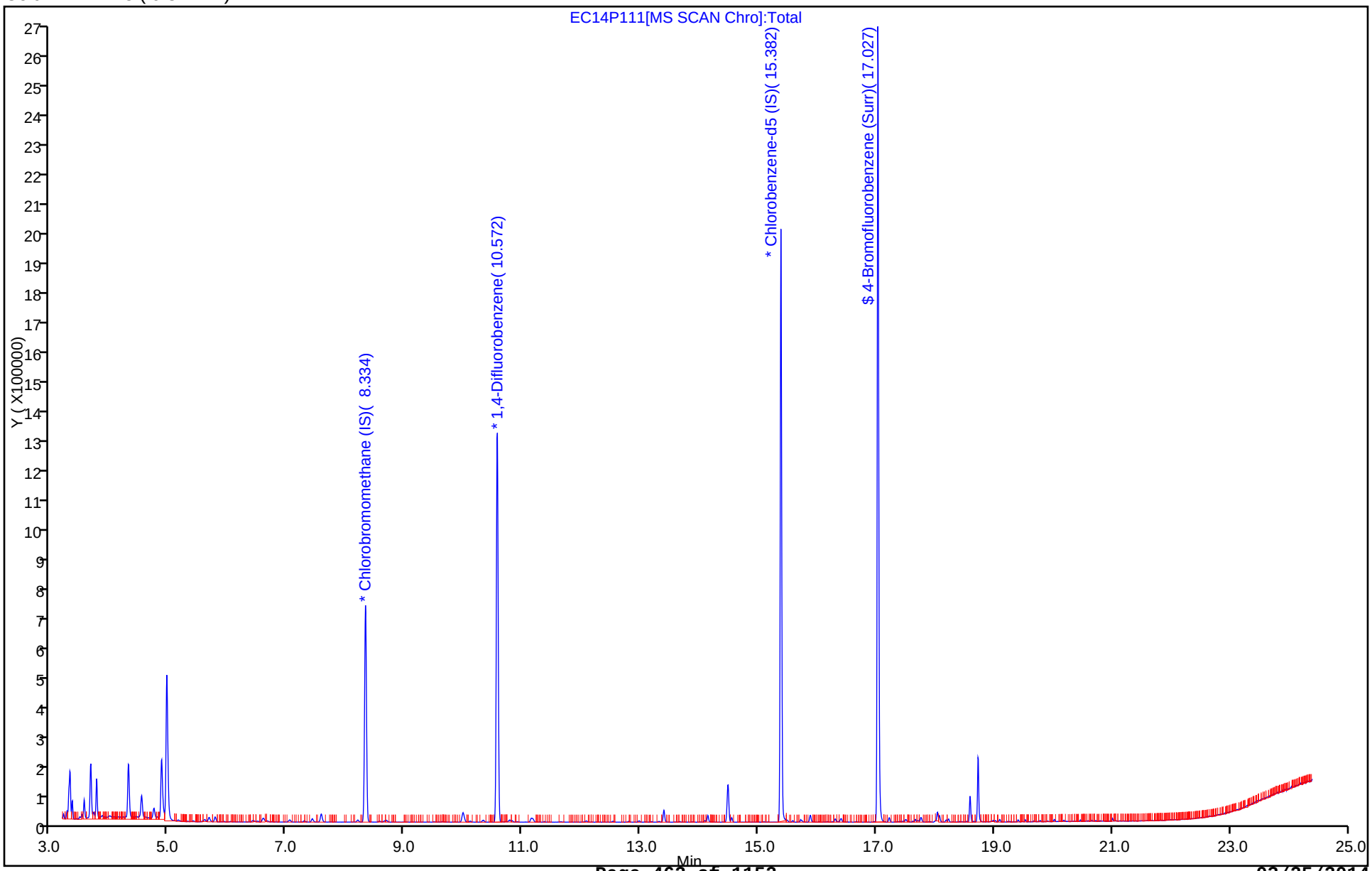
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	209379	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1016315	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	937881	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	878703	4.28	
	7 Propene	41	3.319	3.314	0.005	79	22092	0.4194	
	8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	42112	0.1818	
	9 Chloromethane	52	3.530	3.530	0.0	94	3530	0.1909	
	17 Ethanol	31	4.312	4.317	-0.005	98	138218	6.60	
	19 2-Methylbutane	43	4.538	4.538	0.0	83	24842	0.3388	
	21 Trichlorofluoromethane	101	4.748	4.748	0.0	94	25007	0.1076	
	23 Acetone	58	4.878	4.883	-0.005	93	77103	2.43	
	24 Isopropyl alcohol	45	4.964	4.975	-0.011	99	493405	6.04	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	63	3745	0.0260	
	31 Methylene Chloride	84	5.784	5.795	-0.011	70	7598	0.1270	
	39 2-Butanone (MEK)	72	7.585	7.585	0.0	91	4740	0.1383	
	40 Hexane	56	7.585	7.590	-0.005	62	3659	0.0657	
	48 Benzene	78	9.990	9.995	-0.005	92	17161	0.0839	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	89	5271	0.0268	
	53 Isooctane	57	10.782	10.788	-0.006	57	6397	0.0203	
	54 n-Heptane	71	11.176	11.182	-0.006	59	2424	0.0313	
	62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	48	2521	0.0209	
	65 Toluene	91	13.398	13.403	-0.005	91	29010	0.1155	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	77	2793	0.0261	
	78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	91	16340	0.0645	
	97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	87	28216	0.1533	

Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D				
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11	Worklist Smp#:	16
Client ID:	PCV-IA2-B14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



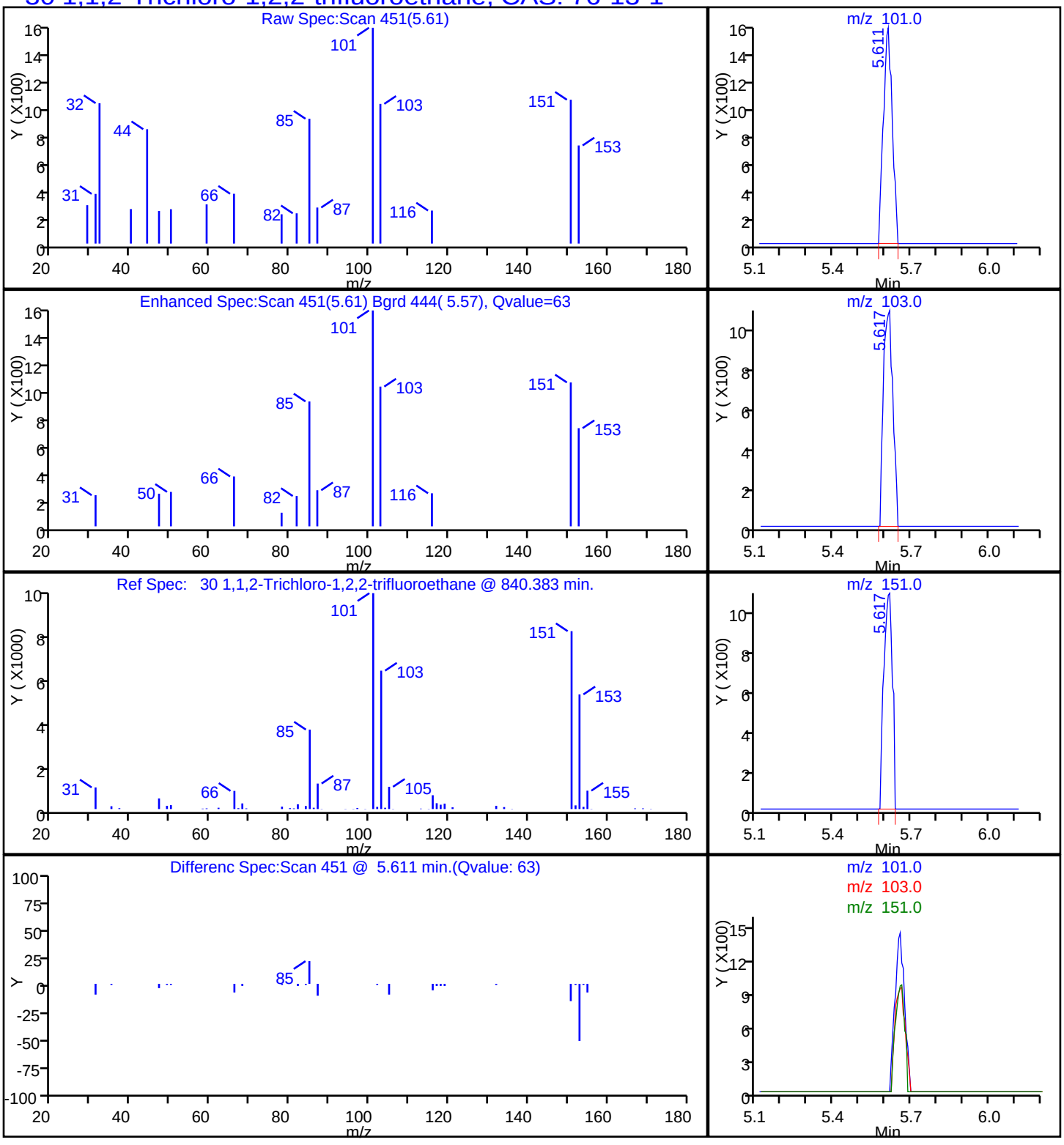
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



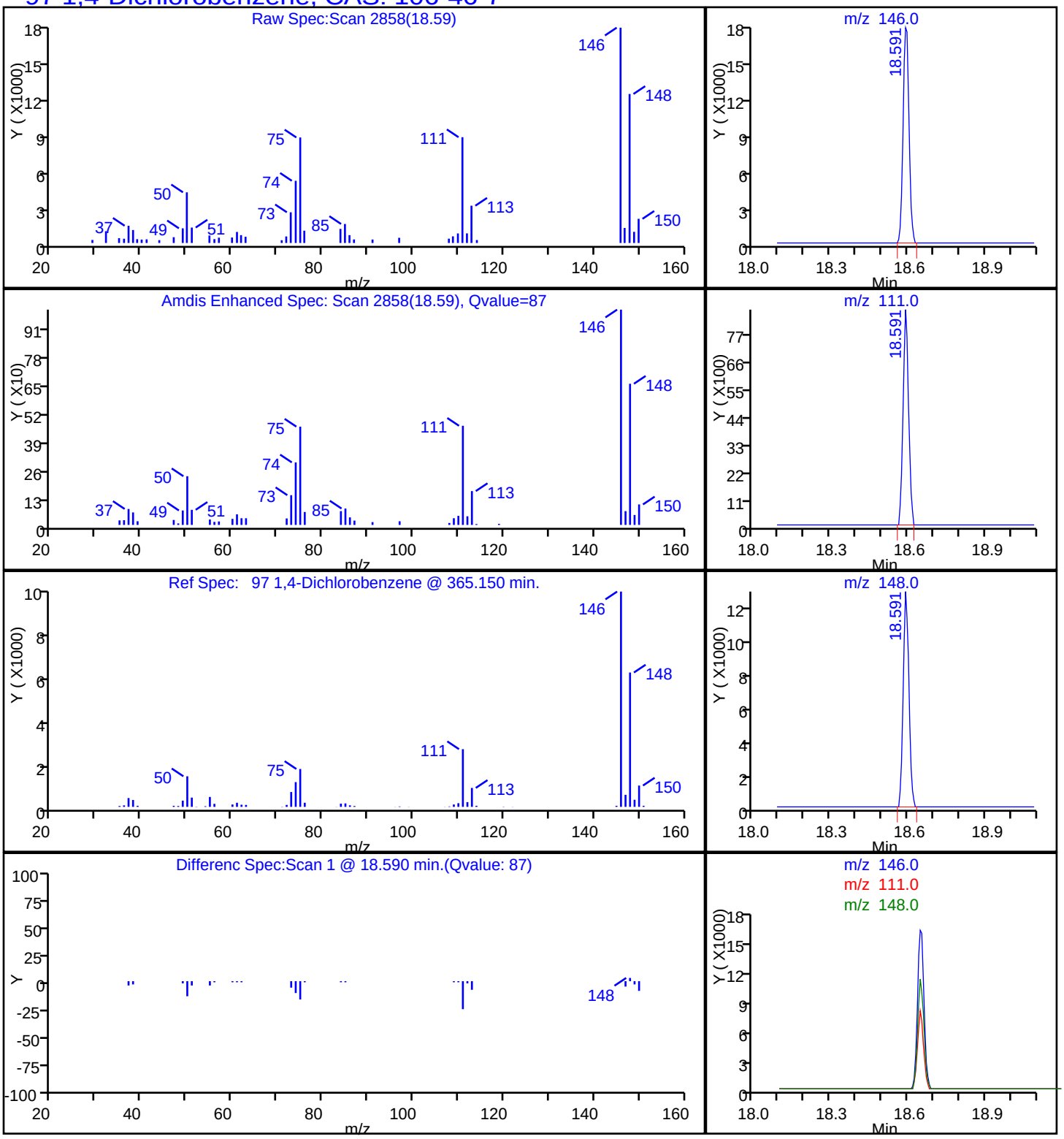
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

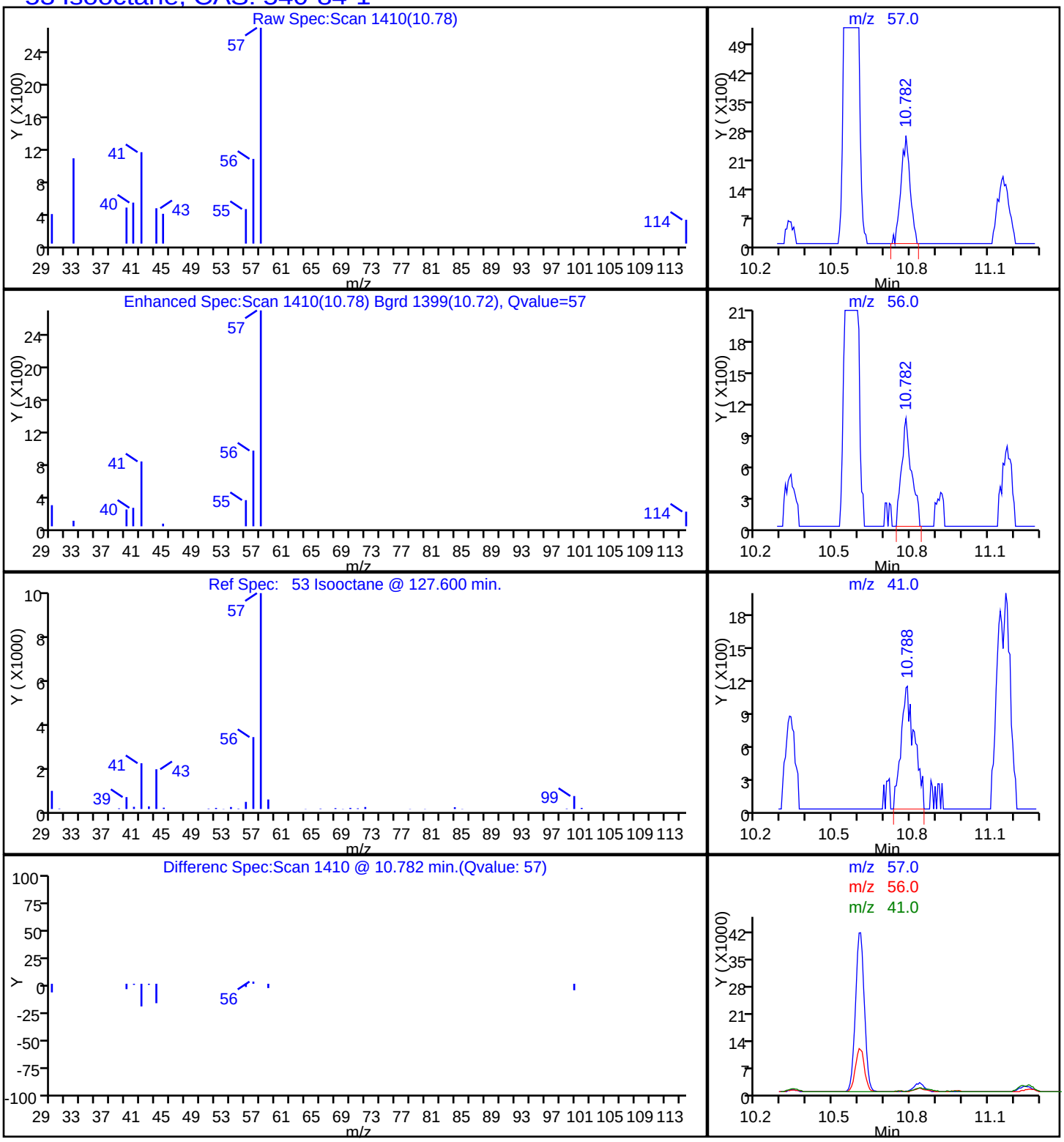


Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D				
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



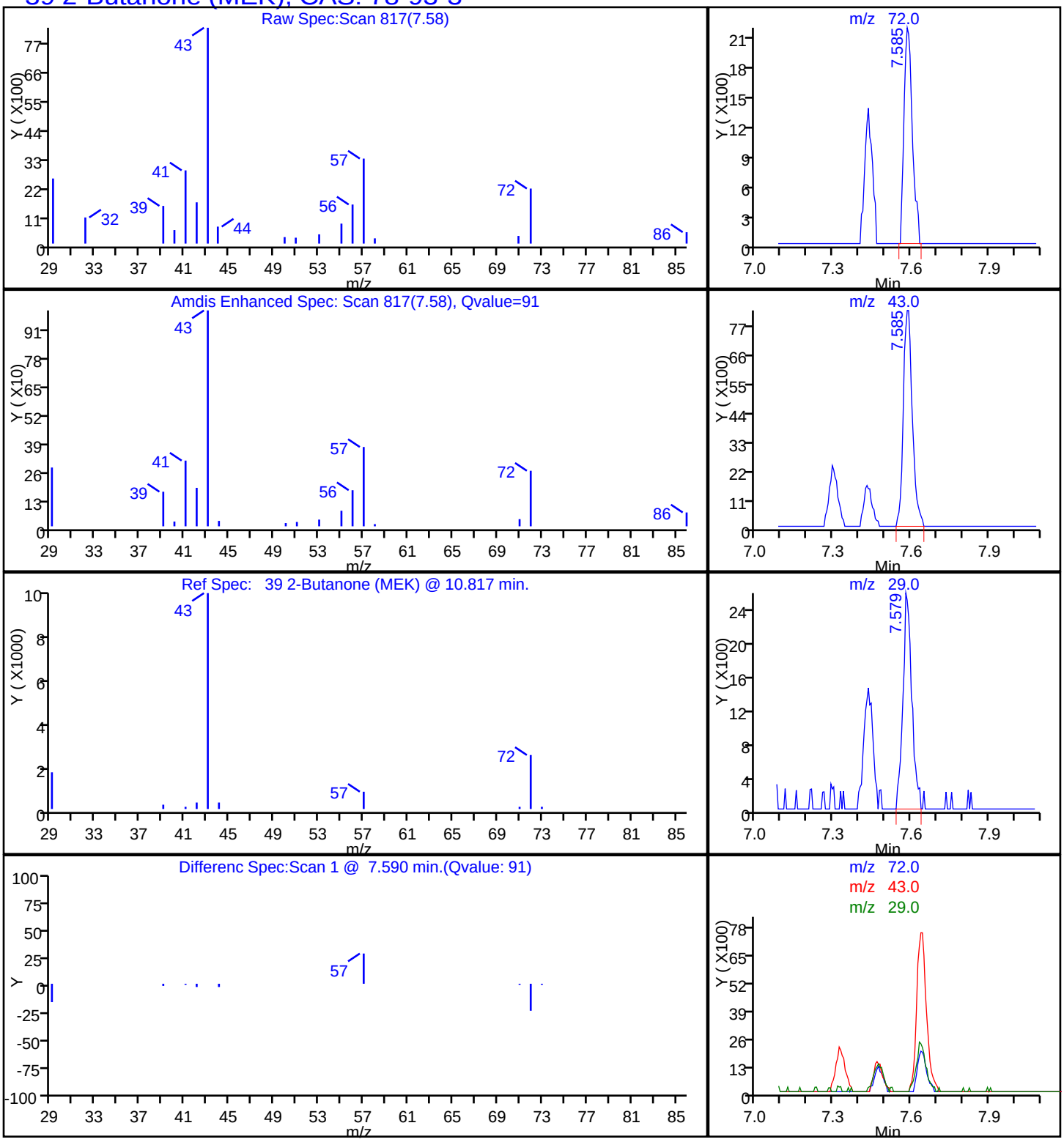
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



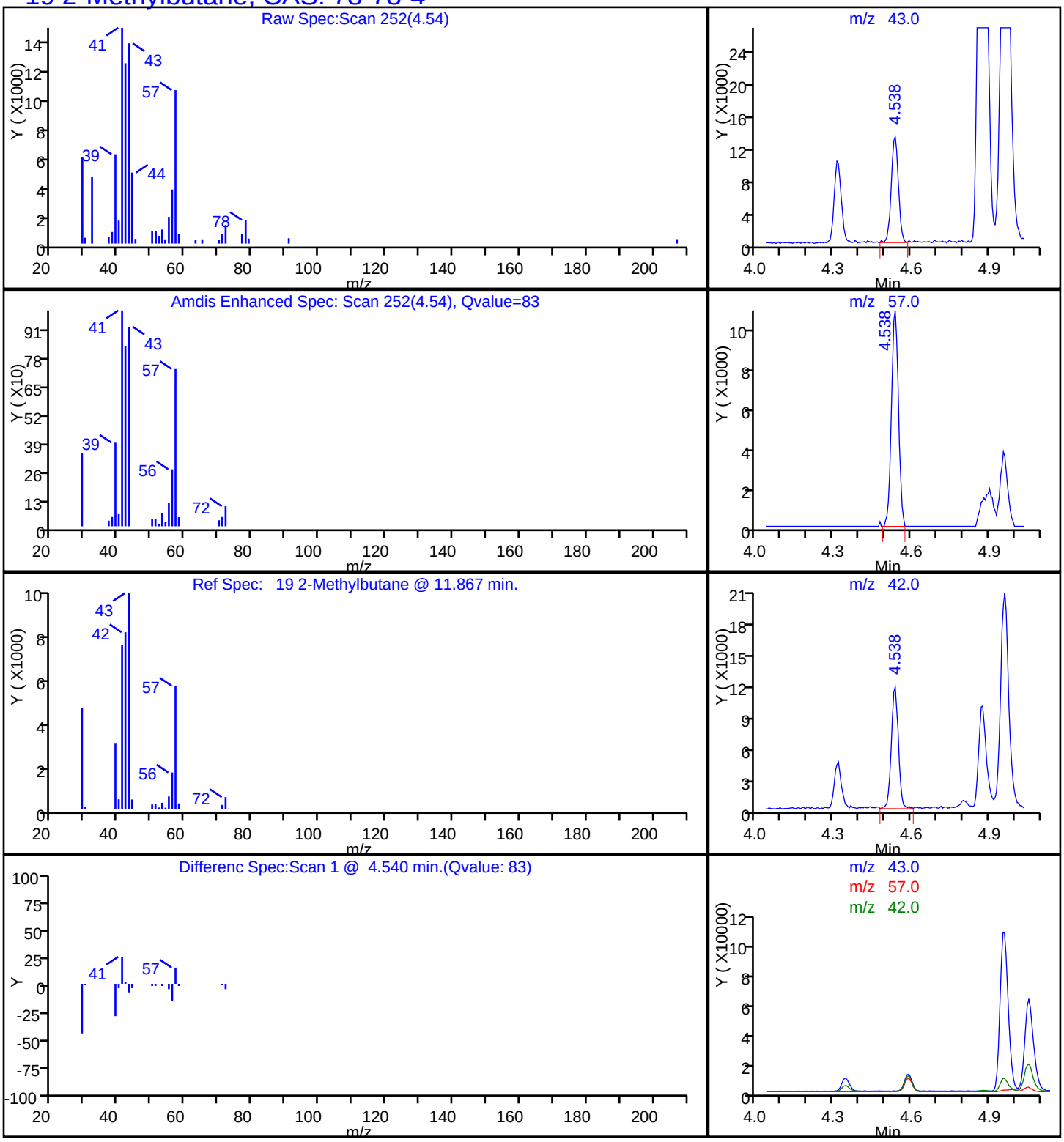
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



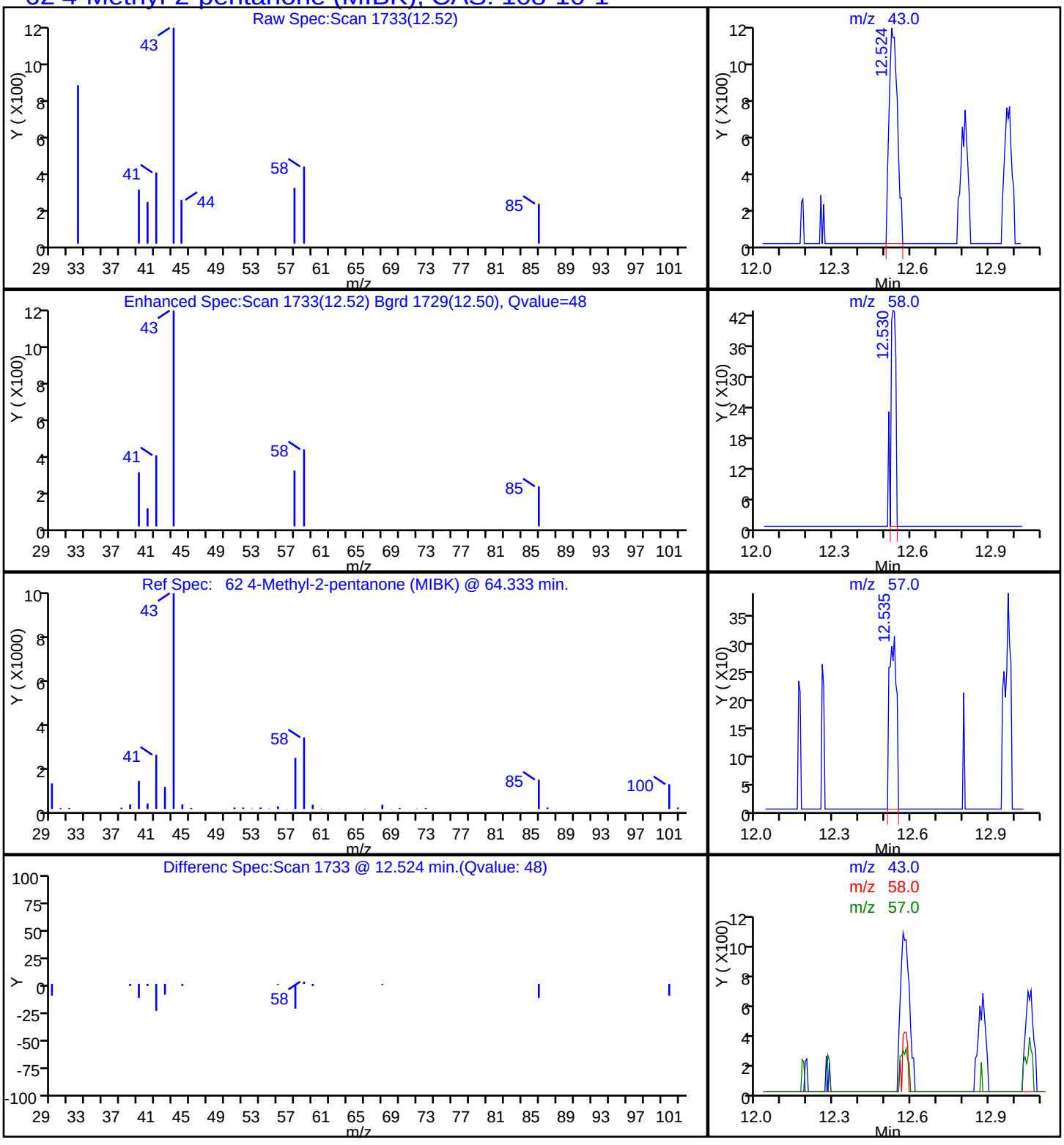
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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TestAmerica Knoxville

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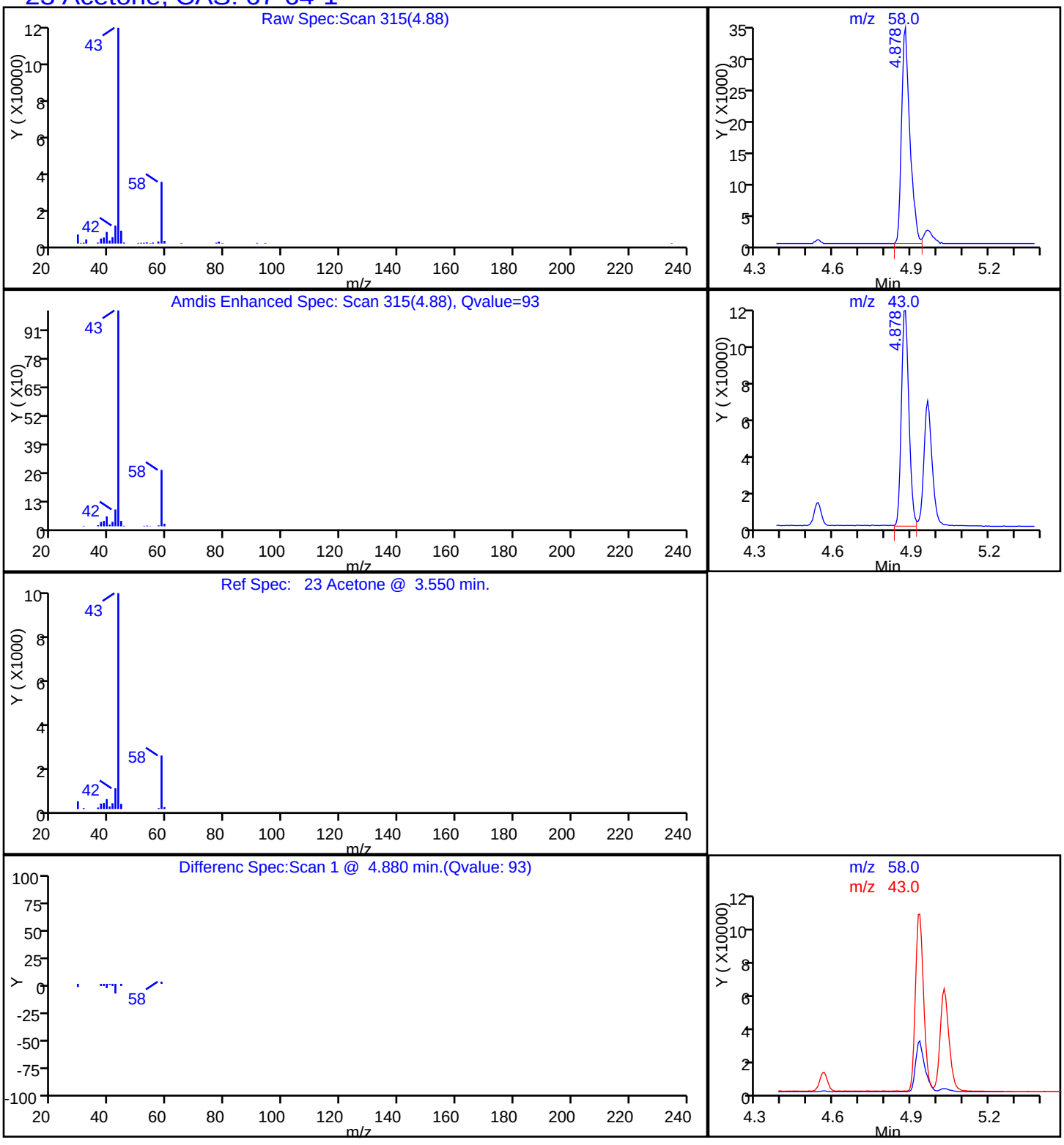
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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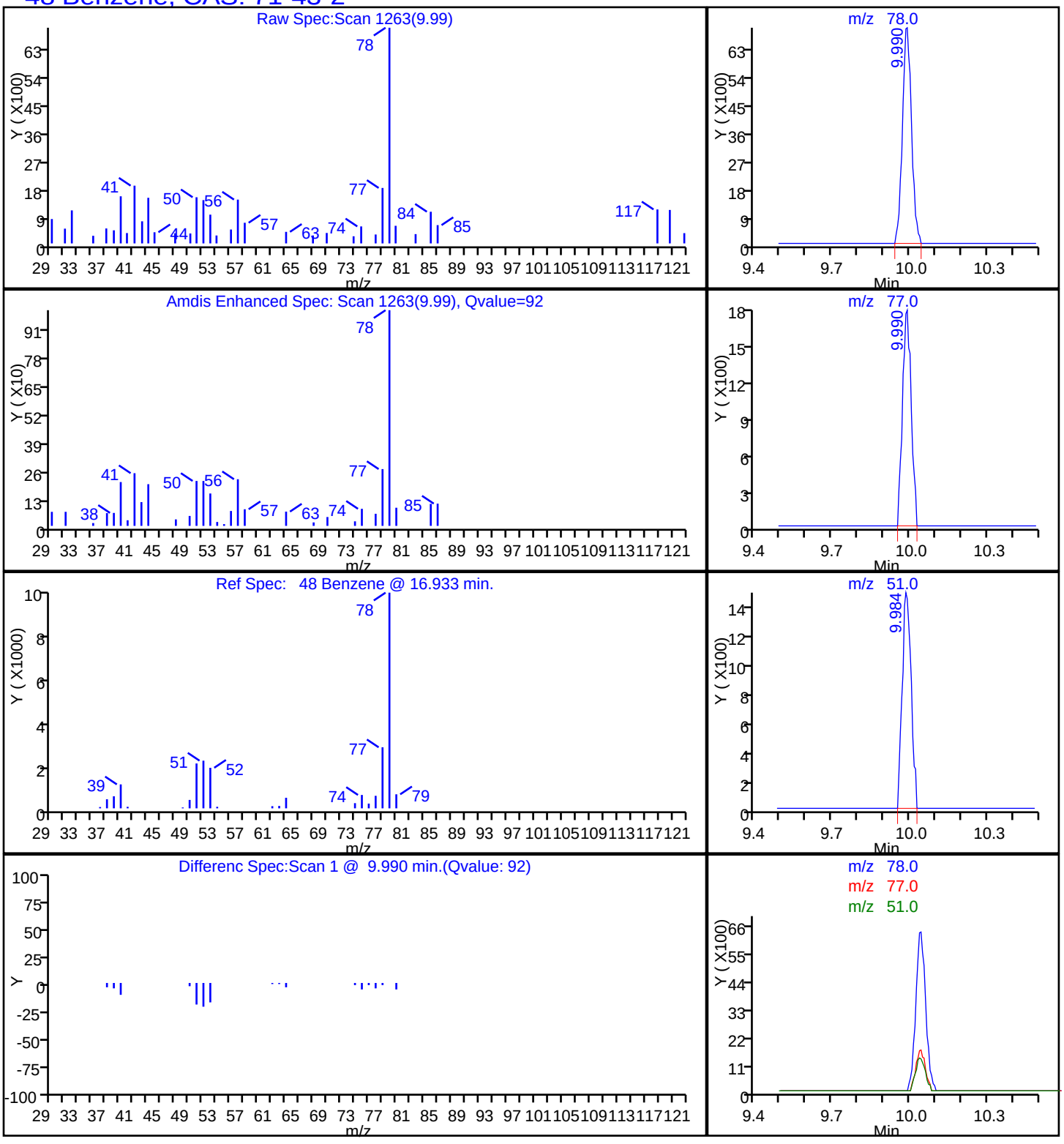
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



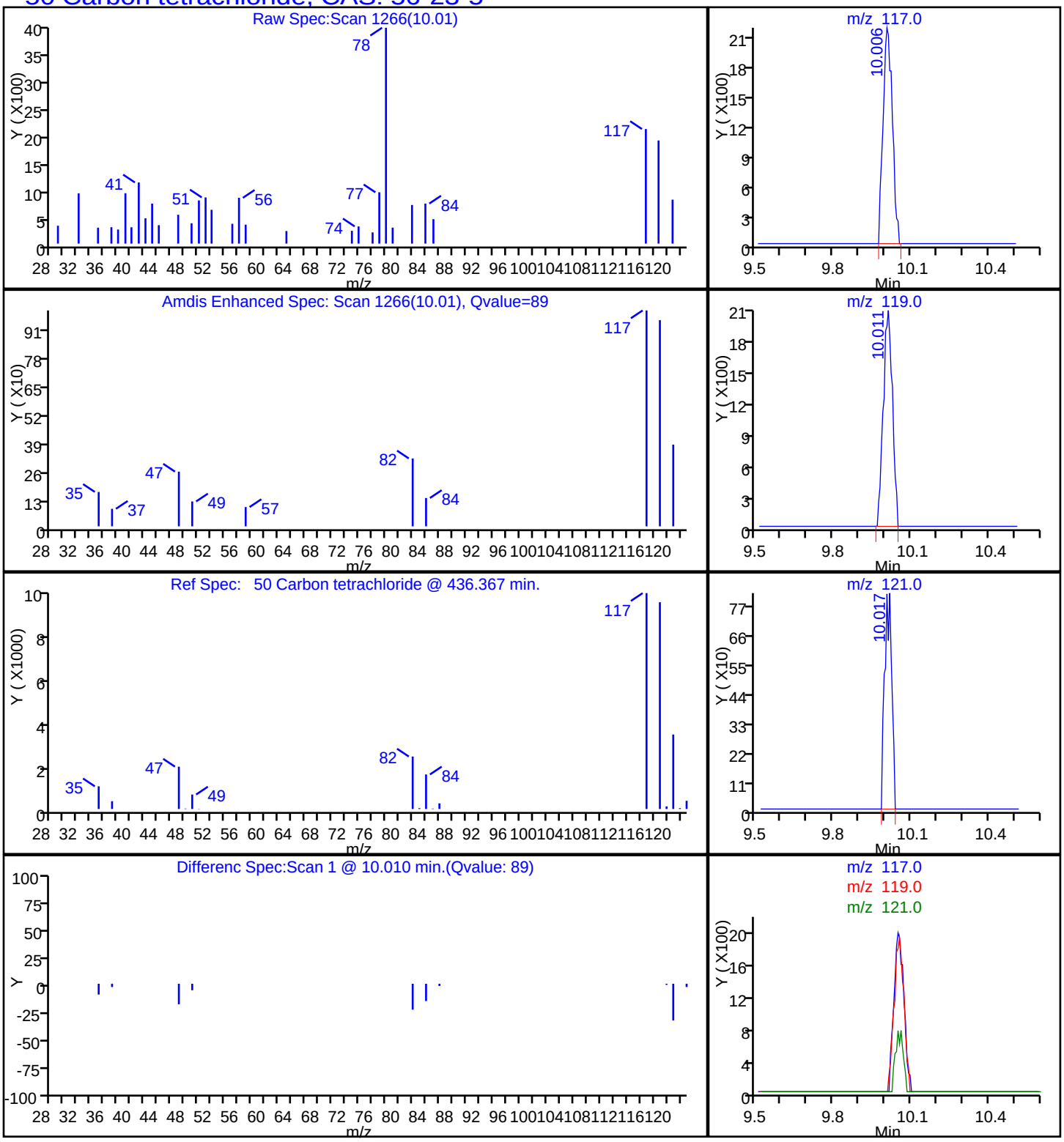
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



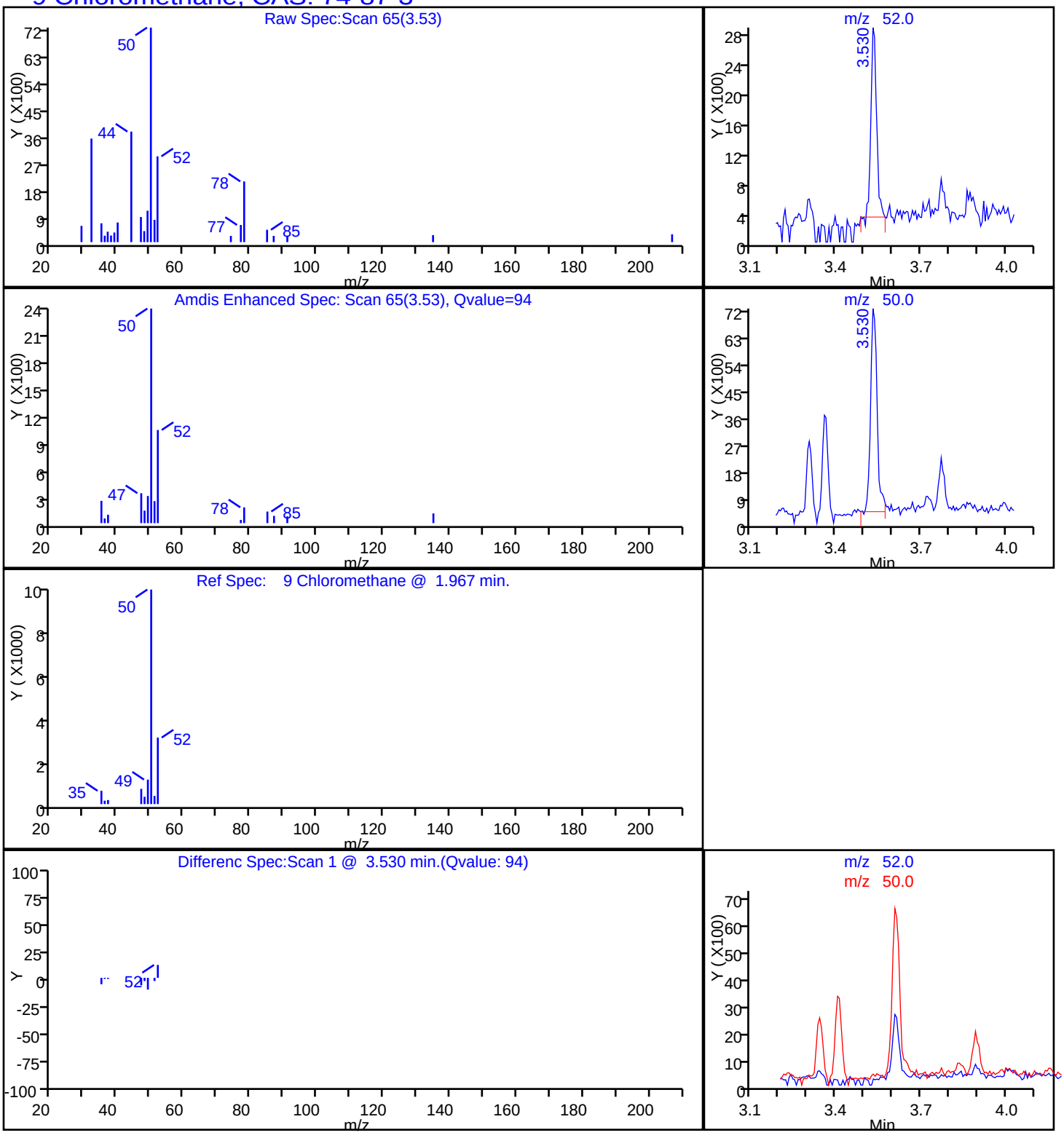
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D		
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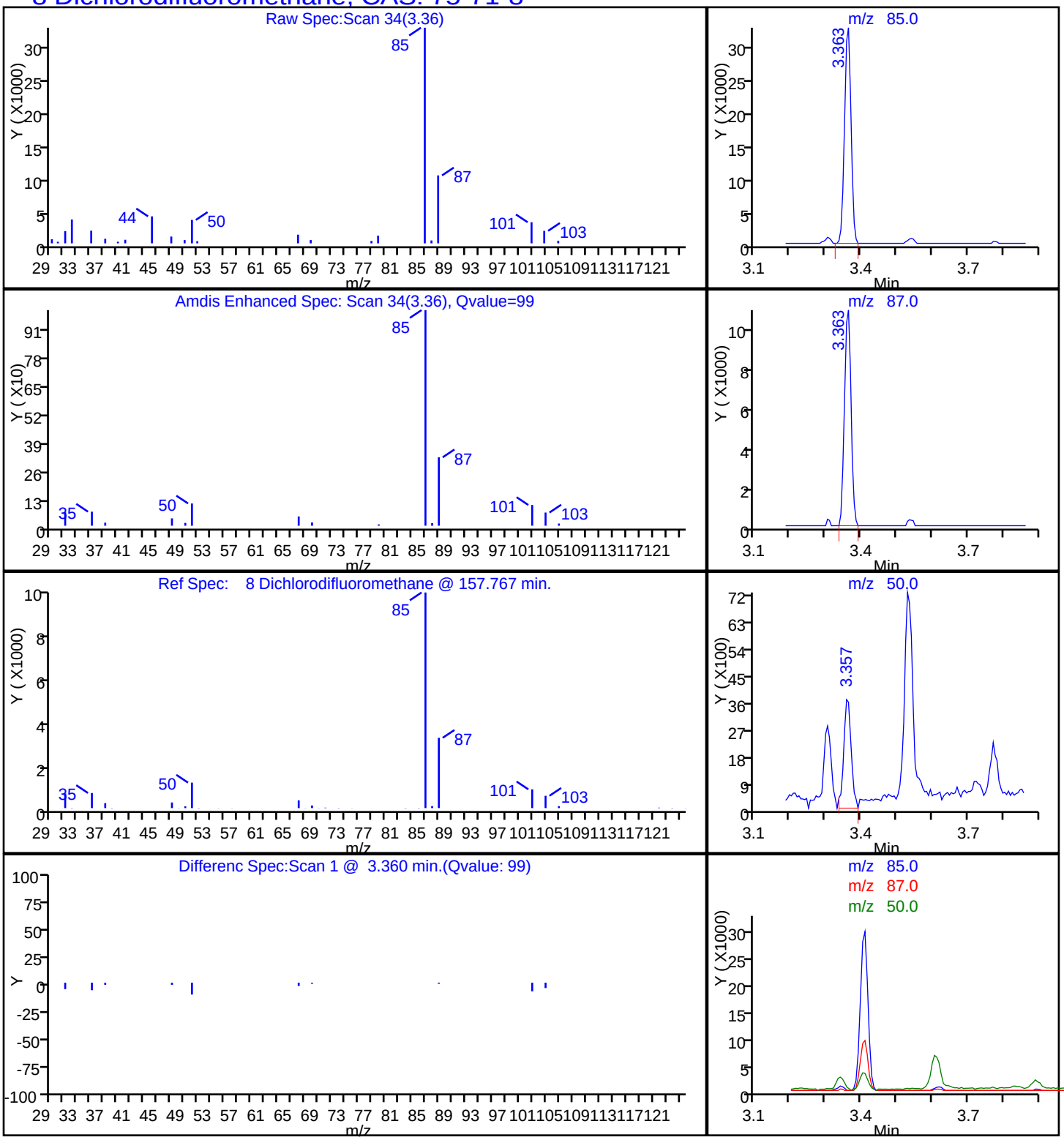
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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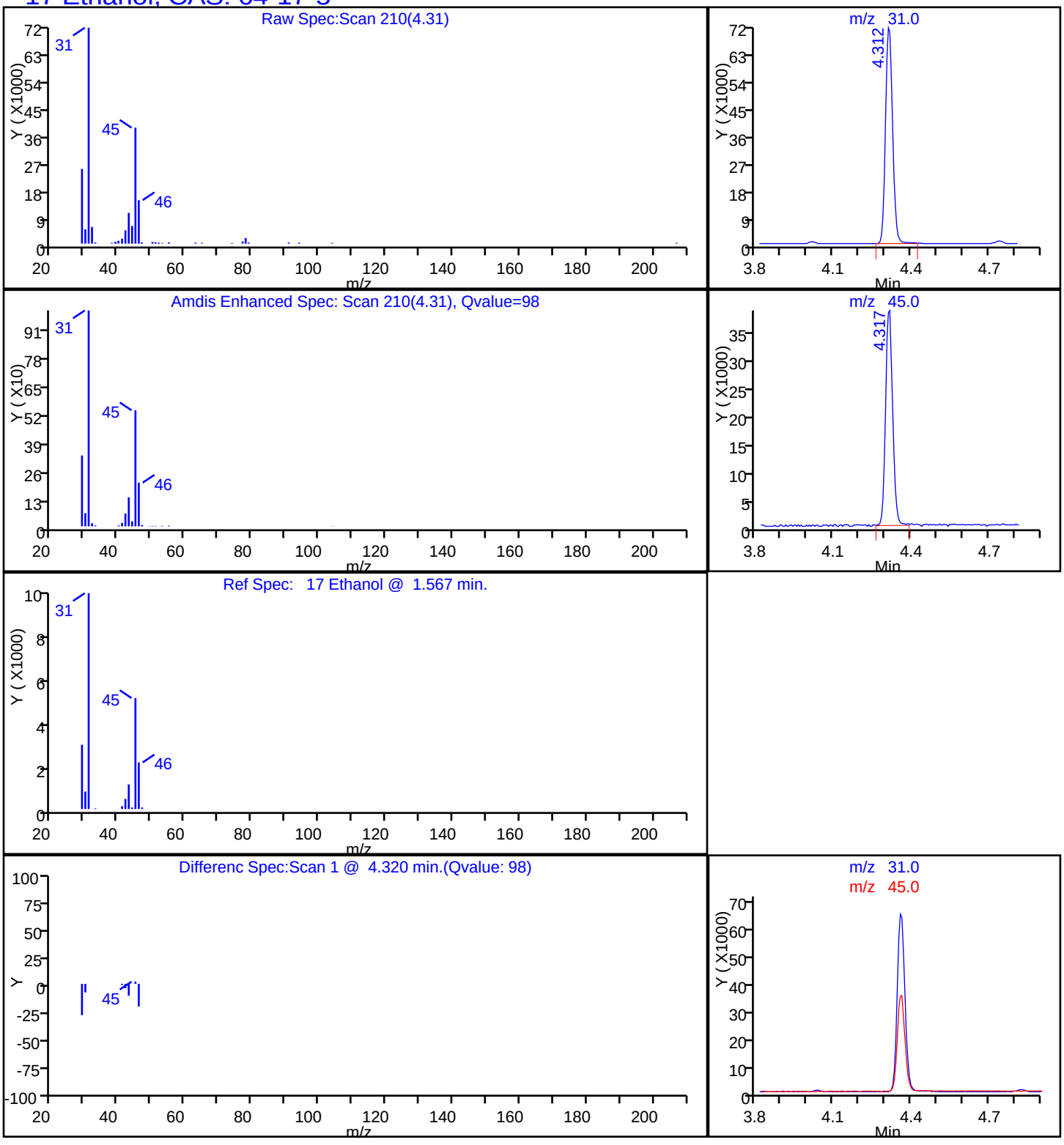
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D		
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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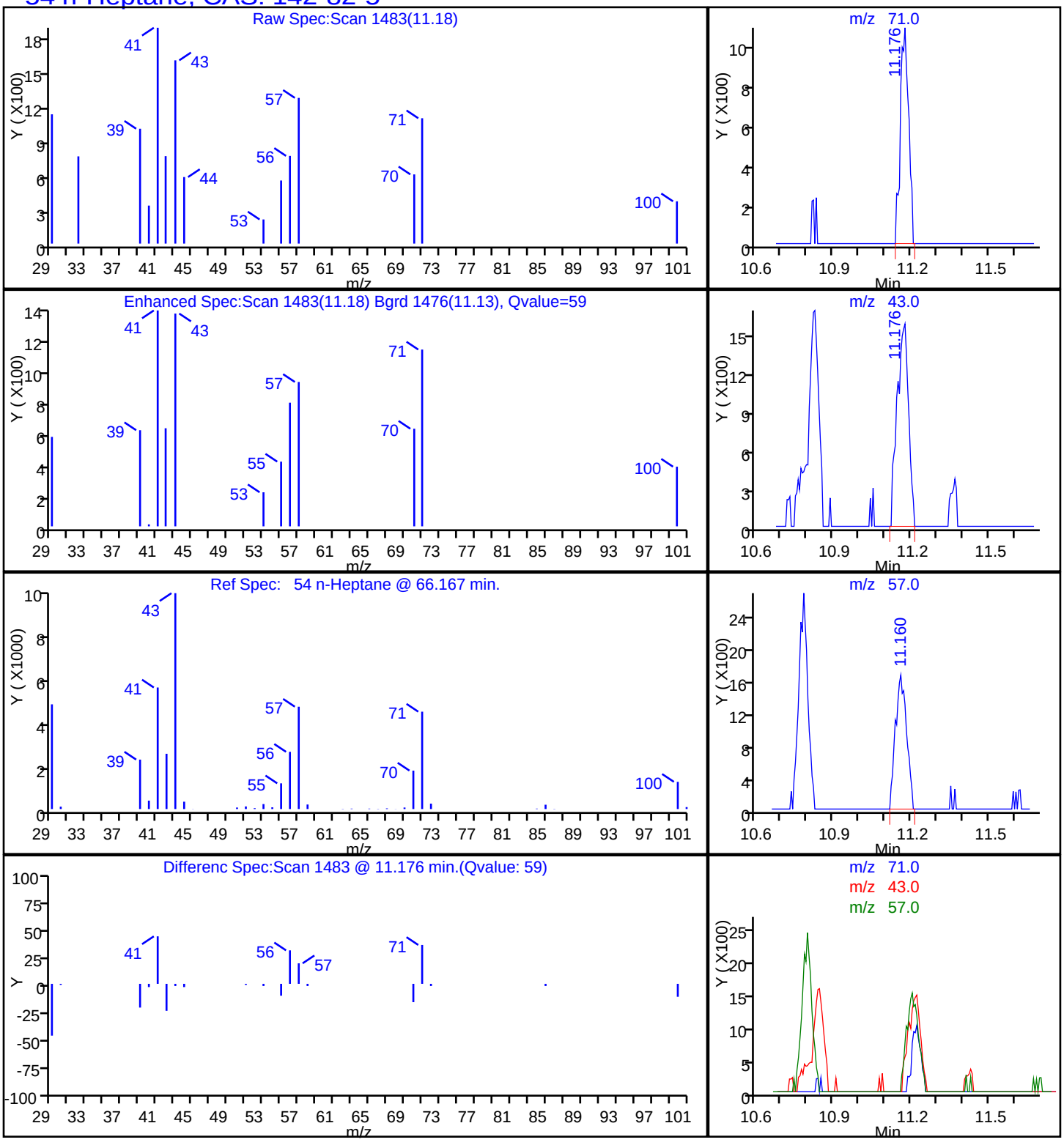
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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TestAmerica Knoxville

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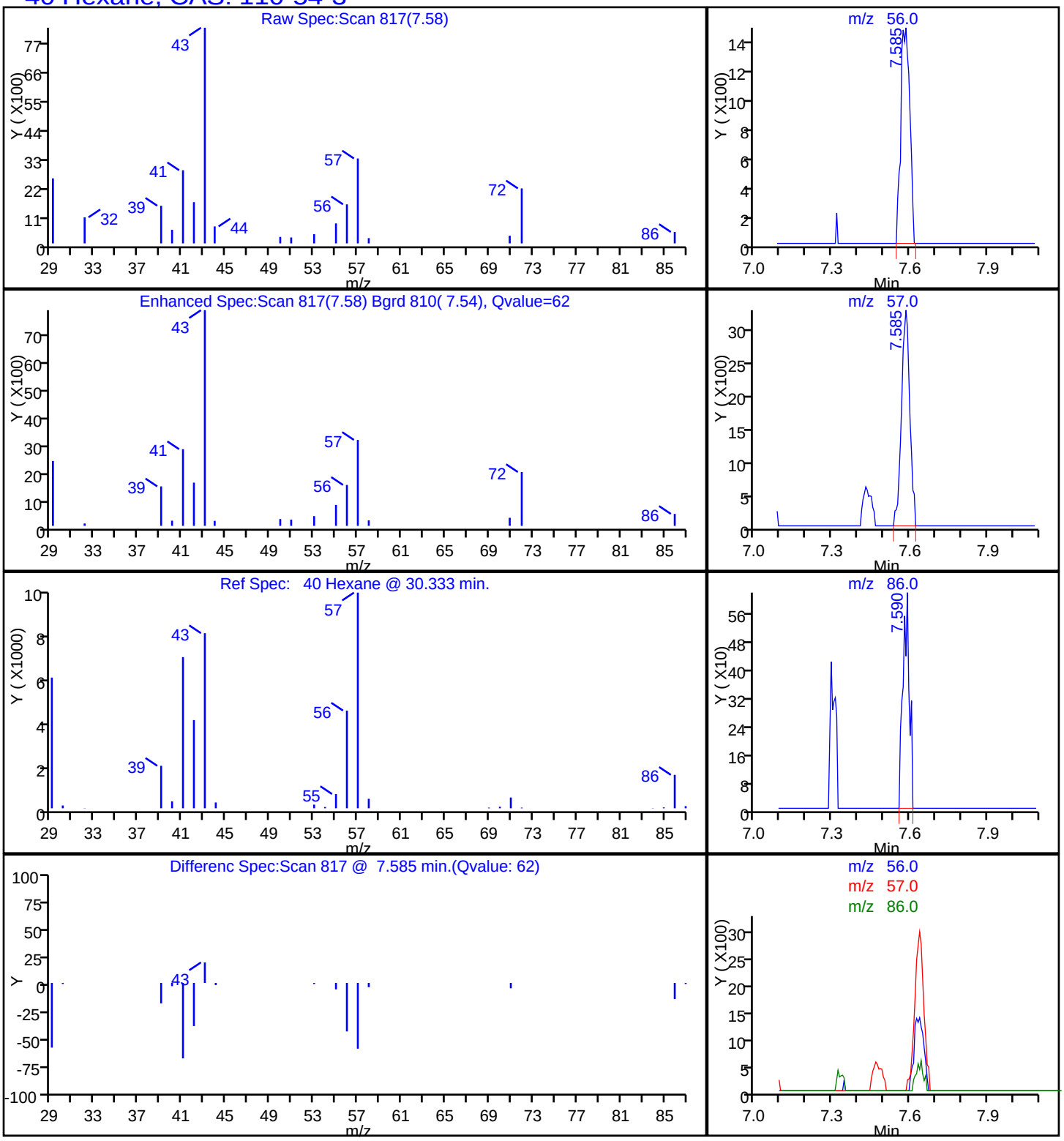
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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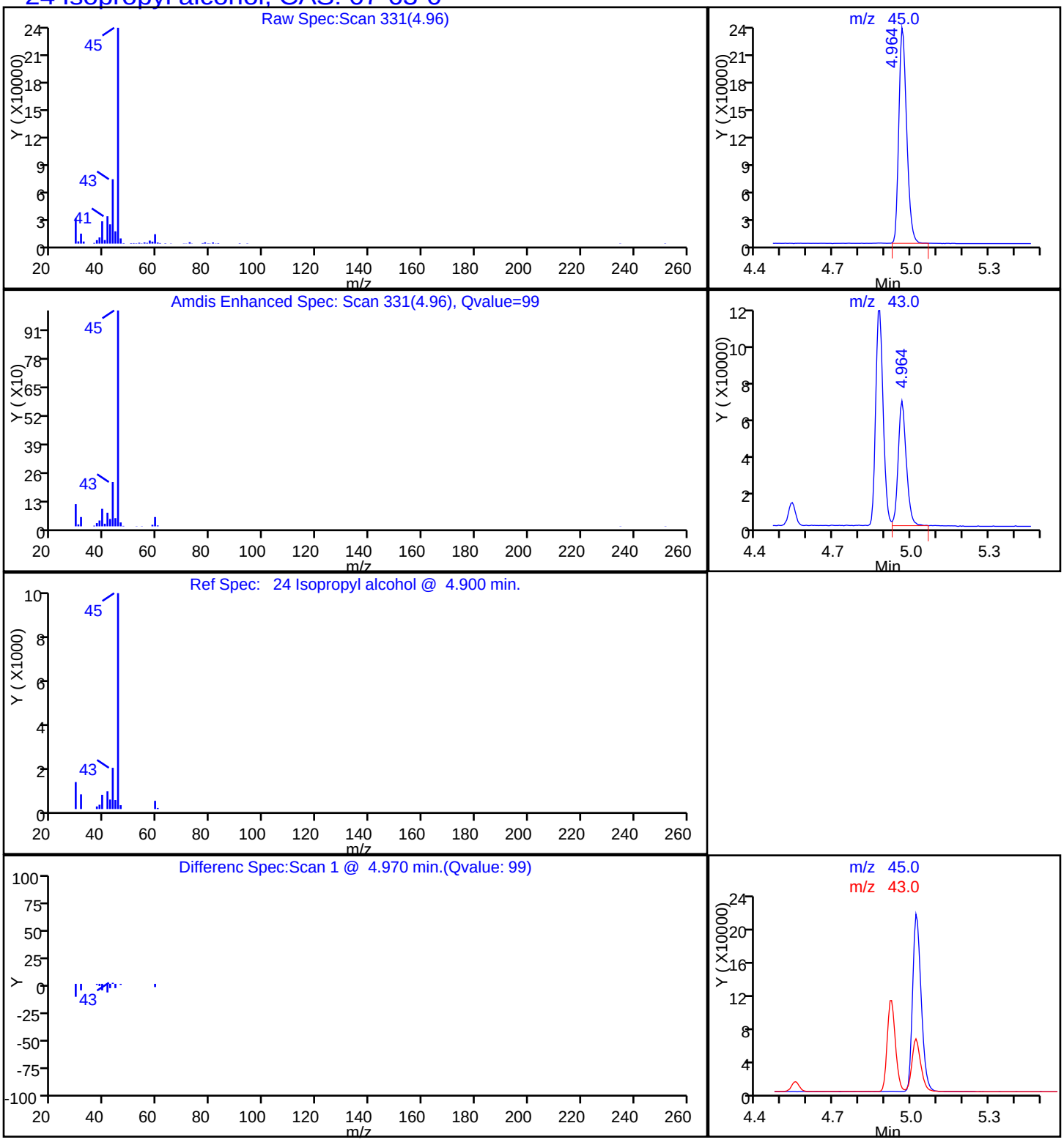
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



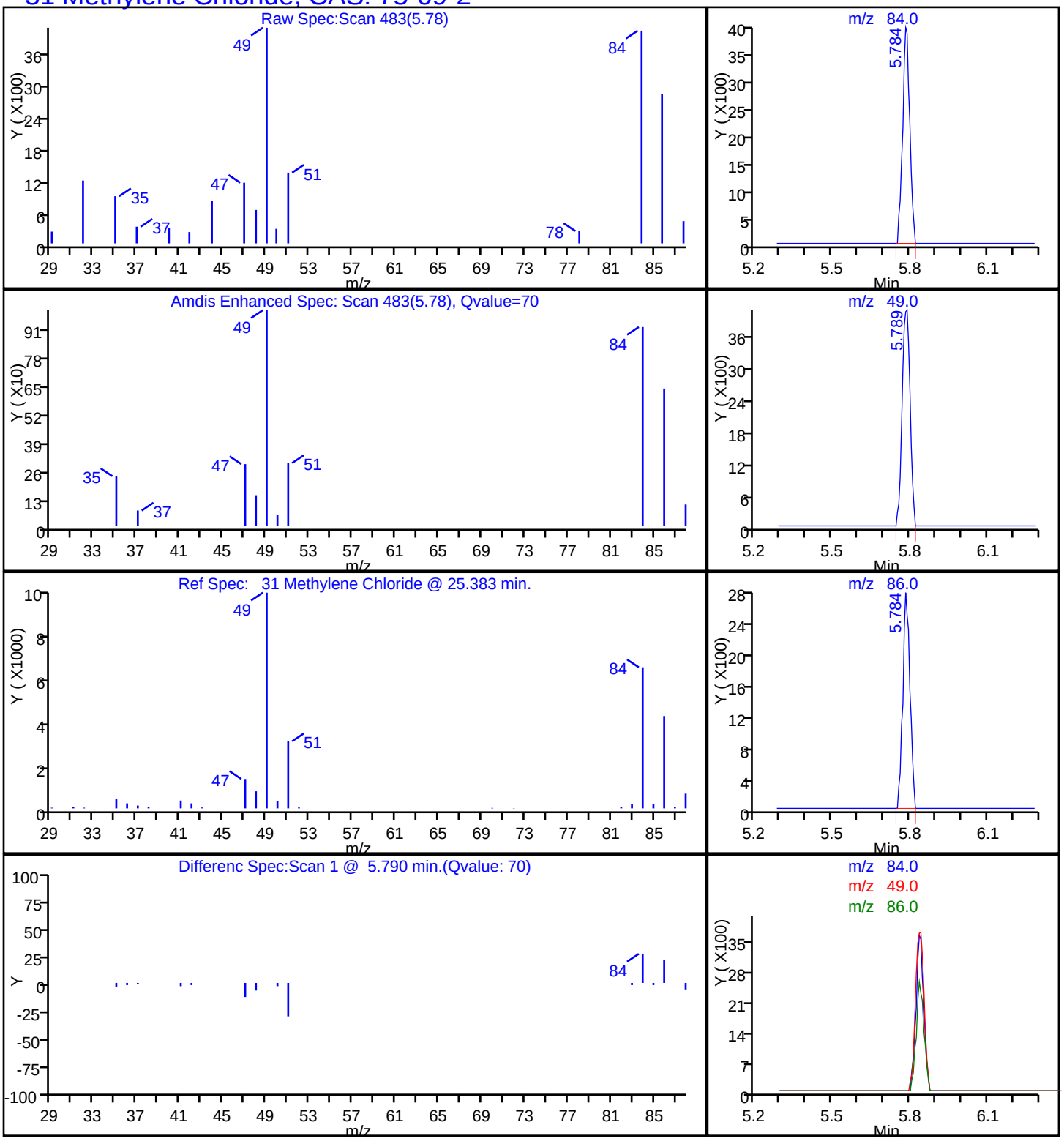
Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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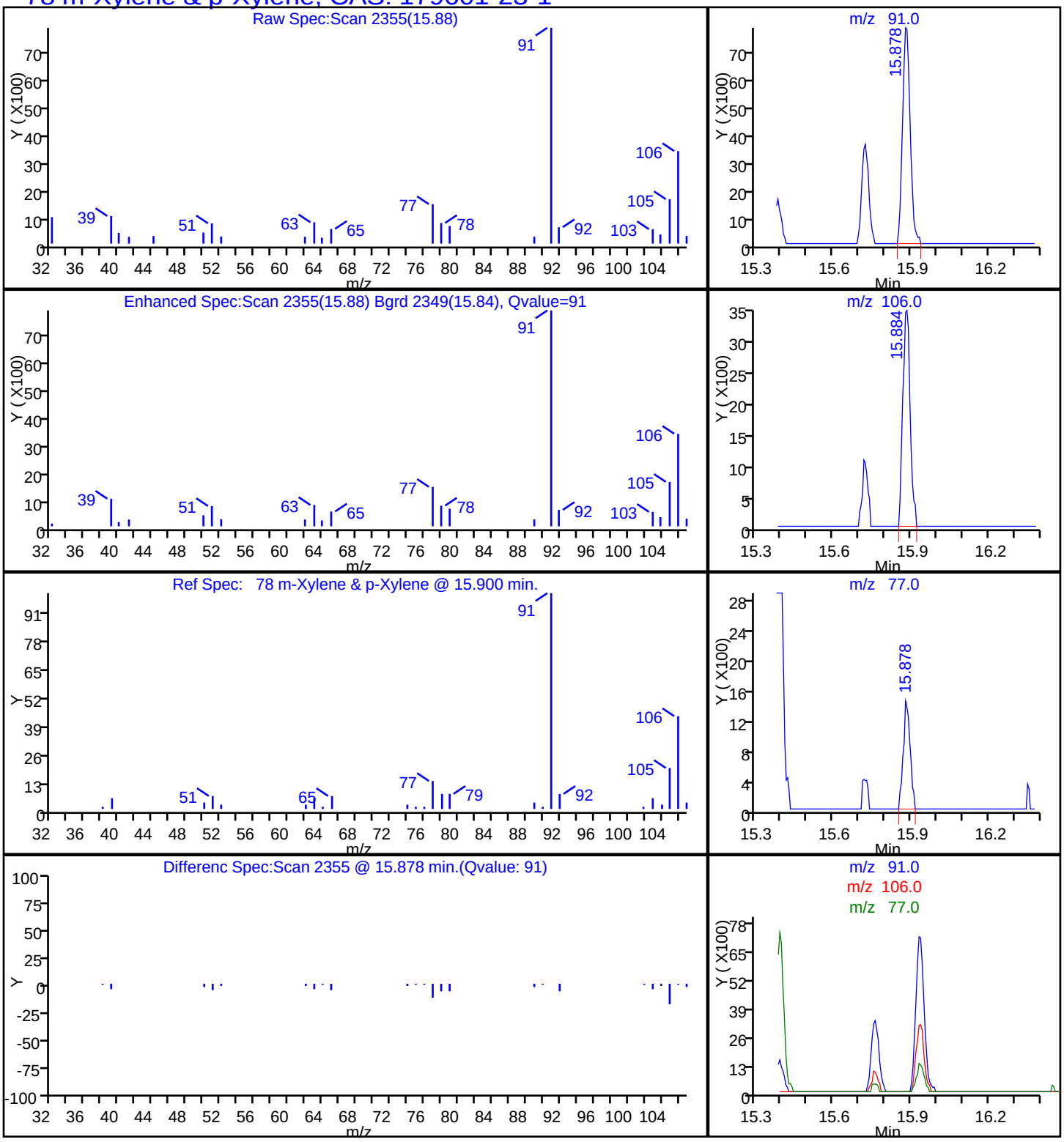
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D				
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
Client ID:	PCV-IA2-B14				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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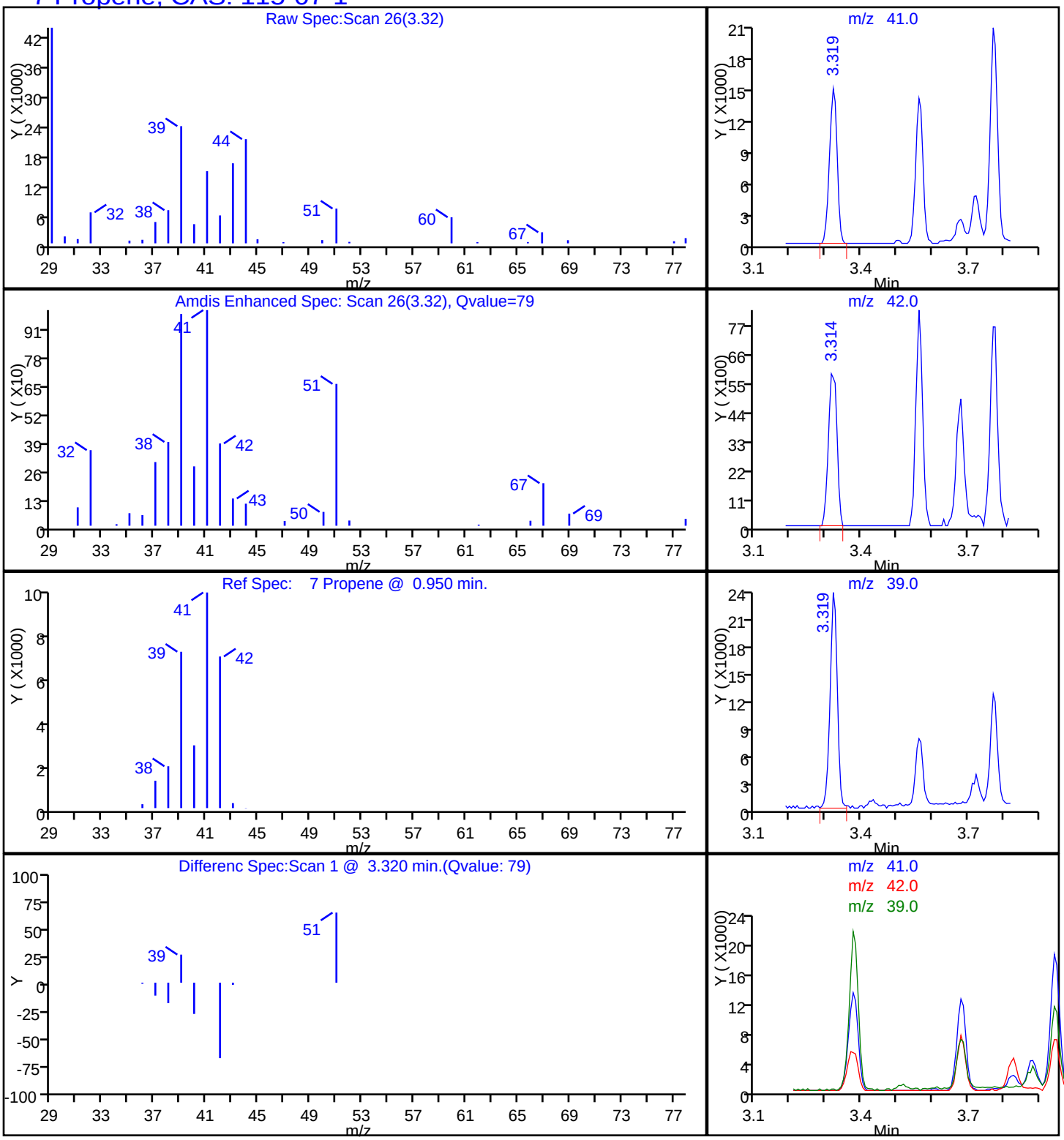
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



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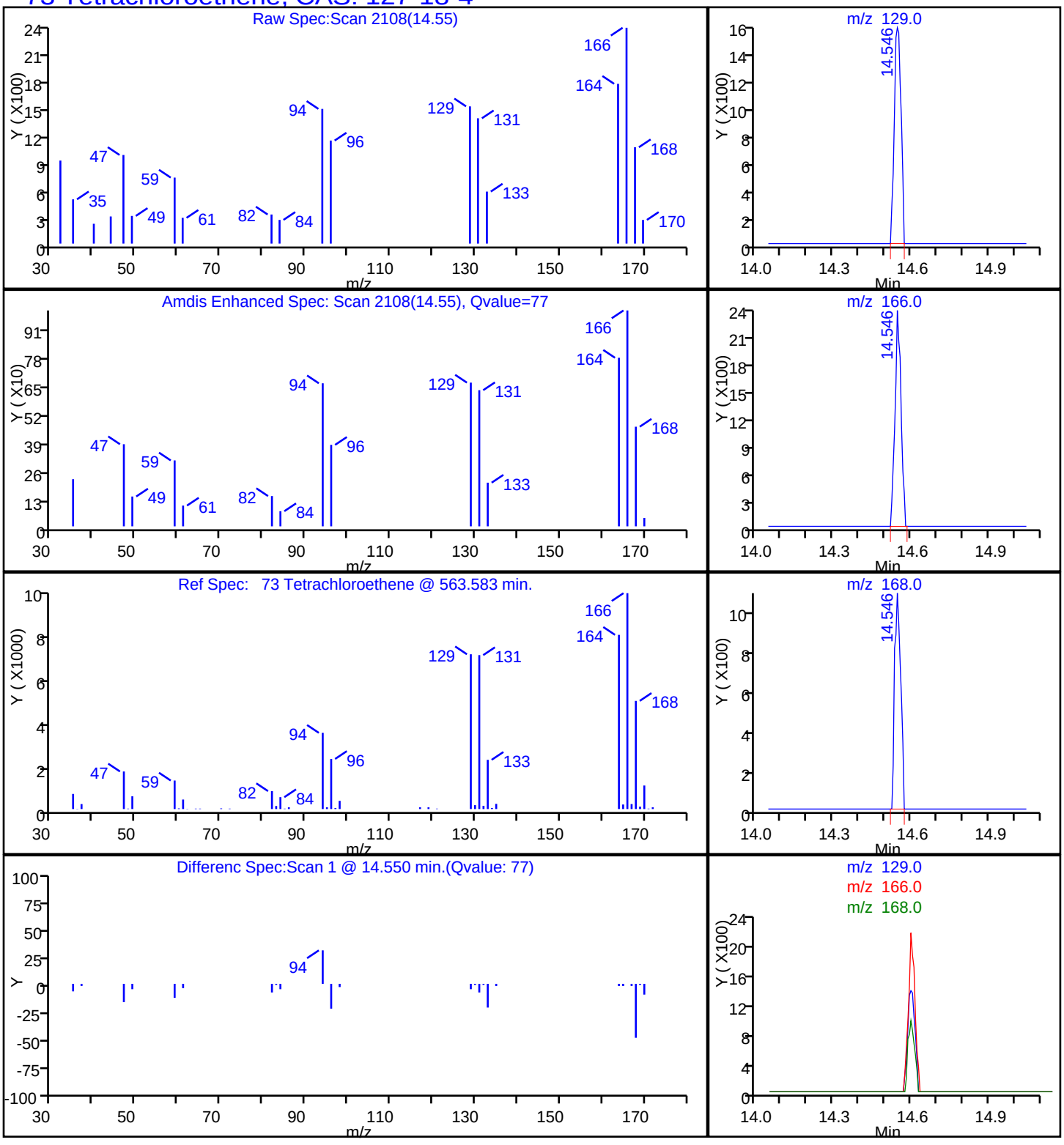
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



Report Date: 24-Mar-2014 15:50:16 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D

Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME		
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11		
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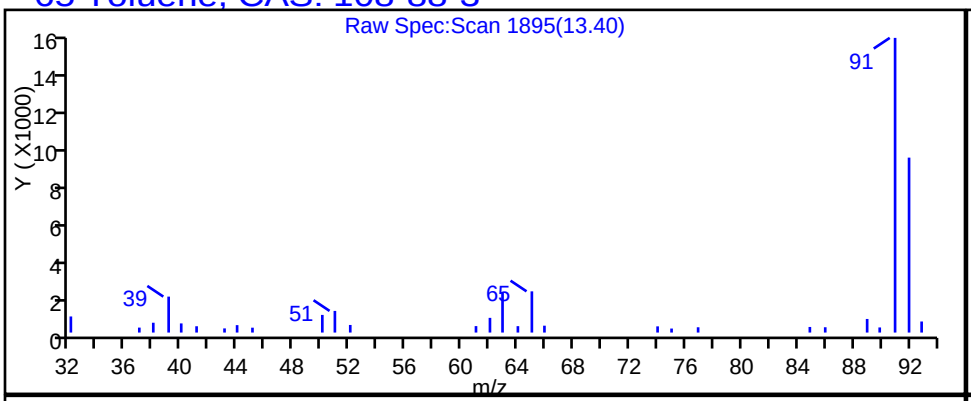
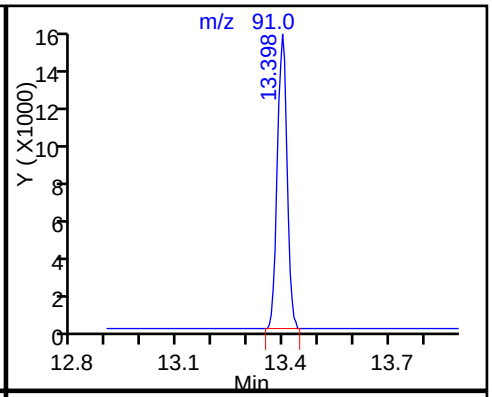
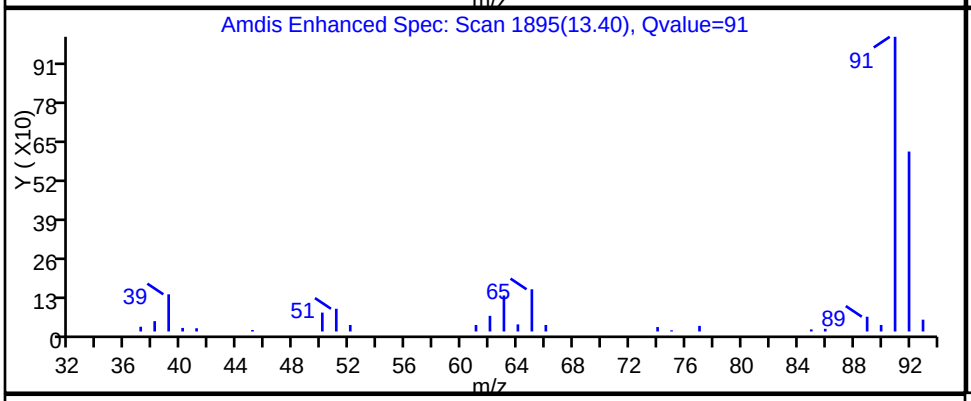
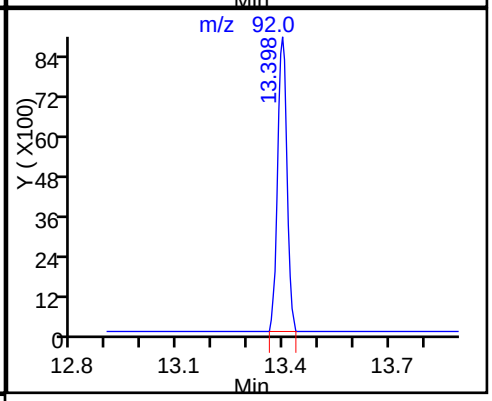
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

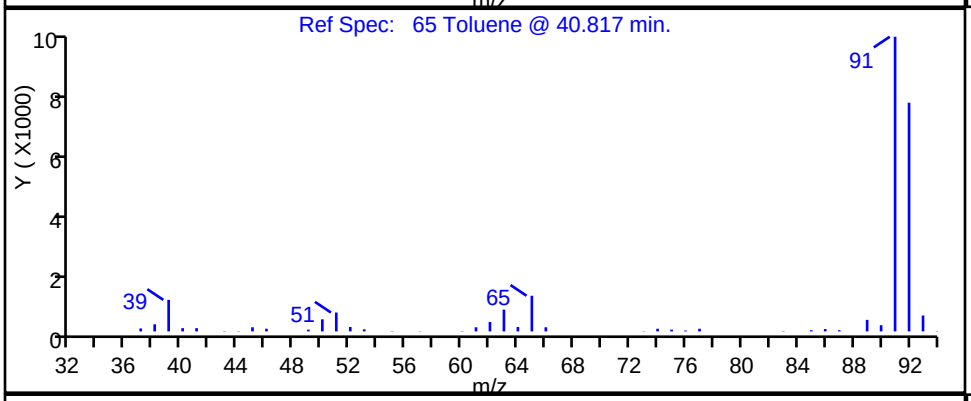
65 Toluene, CAS: 108-88-3

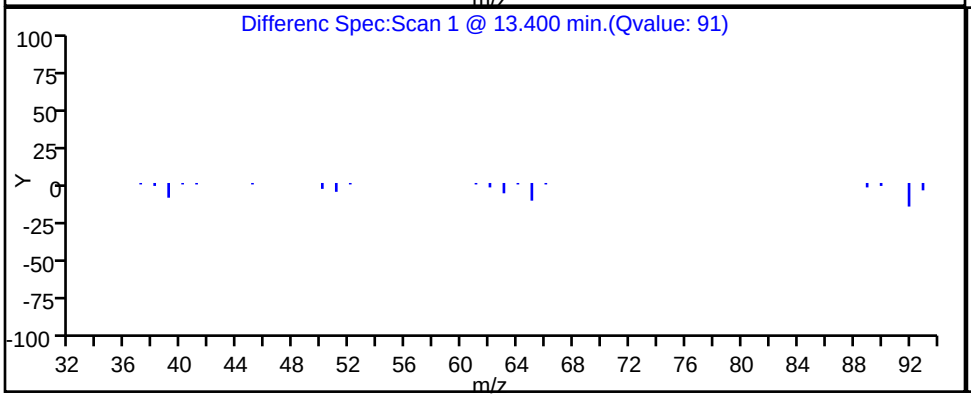


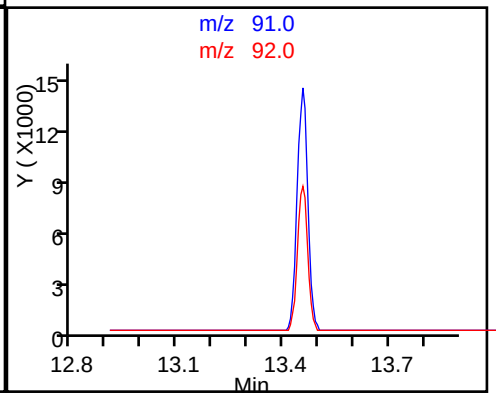












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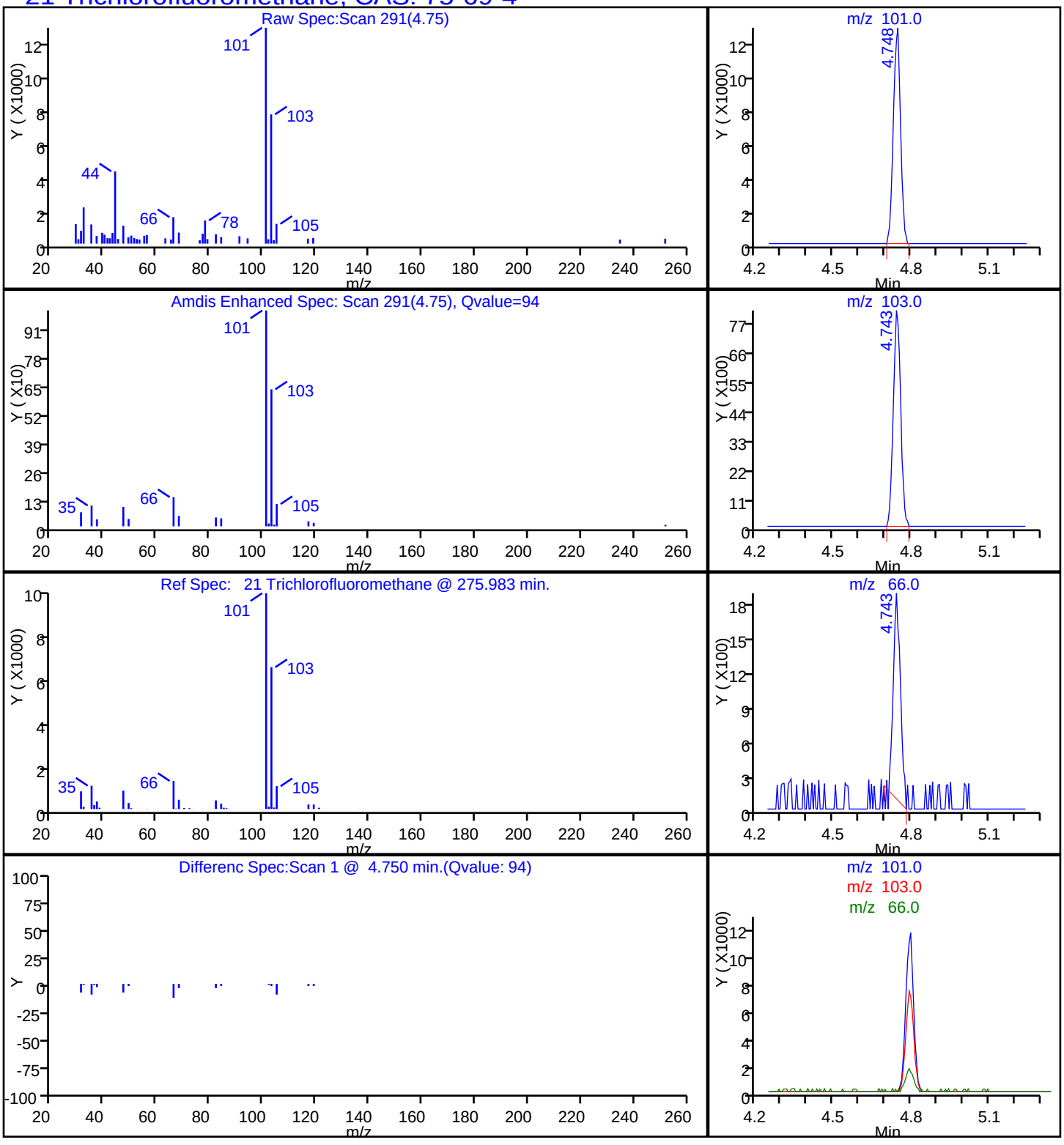
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P111.D		
Injection Date:	15-Mar-2014 00:31:30	Instrument ID:	ME
Lims ID:	140-1041-A-11	Lab Sample ID:	140-1041-11
Client ID:	PCV-IA2-B14		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.061	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.27	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.4		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.041	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.040	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	32		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.075	J	0.20	0.068
142-82-5	Heptane	100.21	0.070	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.59		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.6		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	4.5		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.29		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.097	J	0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.067	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.67		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.35		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.55	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.29	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.81	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	4.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	8.6	J	12	3.3
71-43-2	Benzene	78.11	0.71		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.16	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.19	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	60		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.32	J	0.87	0.30
142-82-5	Heptane	100.21	0.29	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	2.1		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.4		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	16		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.42	J	0.87	0.26
115-07-1	Propene	42.08	2.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.45	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.9		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B4 Lab Sample ID: 140-1041-12

Matrix: Air Lab File ID: EC14P112.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:26

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 01:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D
Lims ID: 140-1041-A-12 Lab Sample ID: 140-1041-12
Client ID: PCV-IA1-B4
Sample Type: Client
Inject. Date: 15-Mar-2014 01:16:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-12
Misc. Info.: E031414,TO155,,140-0000522-017
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:50:31 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:33:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	78	201229	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	981818	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	855286	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	788572	4.21	
7 Propene	41	3.319	3.314	0.005	72	25432	0.5024	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	43348	0.1947	
9 Chloromethane	52	3.530	3.530	0.0	95	4292	0.2416	
15 Bromomethane	94	4.074	4.080	-0.006	12	1225	0.0165	
17 Ethanol	31	4.306	4.317	-0.011	98	257320	12.8	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	38149	0.5414	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	30942	0.1386	
23 Acetone	58	4.872	4.883	-0.011	99	44042	1.44	
24 Isopropyl alcohol	45	4.964	4.975	-0.011	82	82128	1.05	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	66	3951	0.0286	
31 Methylene Chloride	84	5.778	5.795	-0.017	85	103531	1.80	
39 2-Butanone (MEK)	72	7.579	7.585	-0.006	74	3611	0.1096	
40 Hexane	56	7.579	7.590	-0.011	84	12722	0.2377	
43 Chloroform	83	8.334	8.356	-0.022	5	2735	0.0159	
48 Benzene	78	9.984	9.995	-0.011	92	17521	0.0887	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	85	5394	0.0284	
53 Isooctane	57	10.777	10.788	-0.011	74	7450	0.0244	
54 n-Heptane	71	11.176	11.182	-0.006	64	2082	0.0278	
65 Toluene	91	13.398	13.403	-0.005	92	60993	0.2662	
73 Tetrachloroethene	129	14.546	14.552	-0.006	78	2597	0.0266	
76 Ethylbenzene	91	15.722	15.722	0.0	79	8783	0.0299	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	96	26963	0.1167	
82 o-Xylene	91	16.407	16.412	-0.005	81	9711	0.0389	

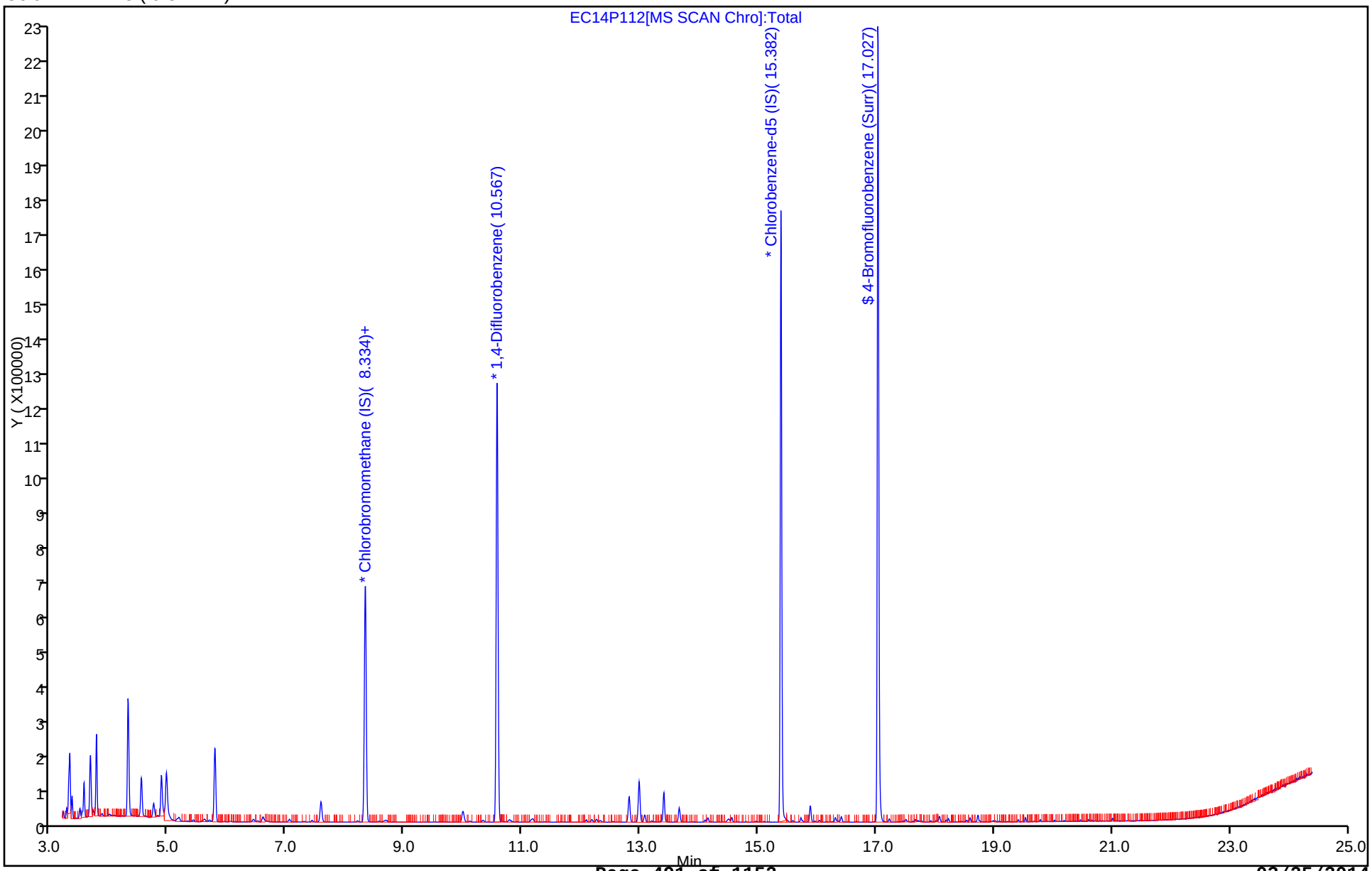
Report Date: 24-Mar-2014 15:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12	Worklist Smp#:	17
Client ID:	PCV-IA1-B4				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



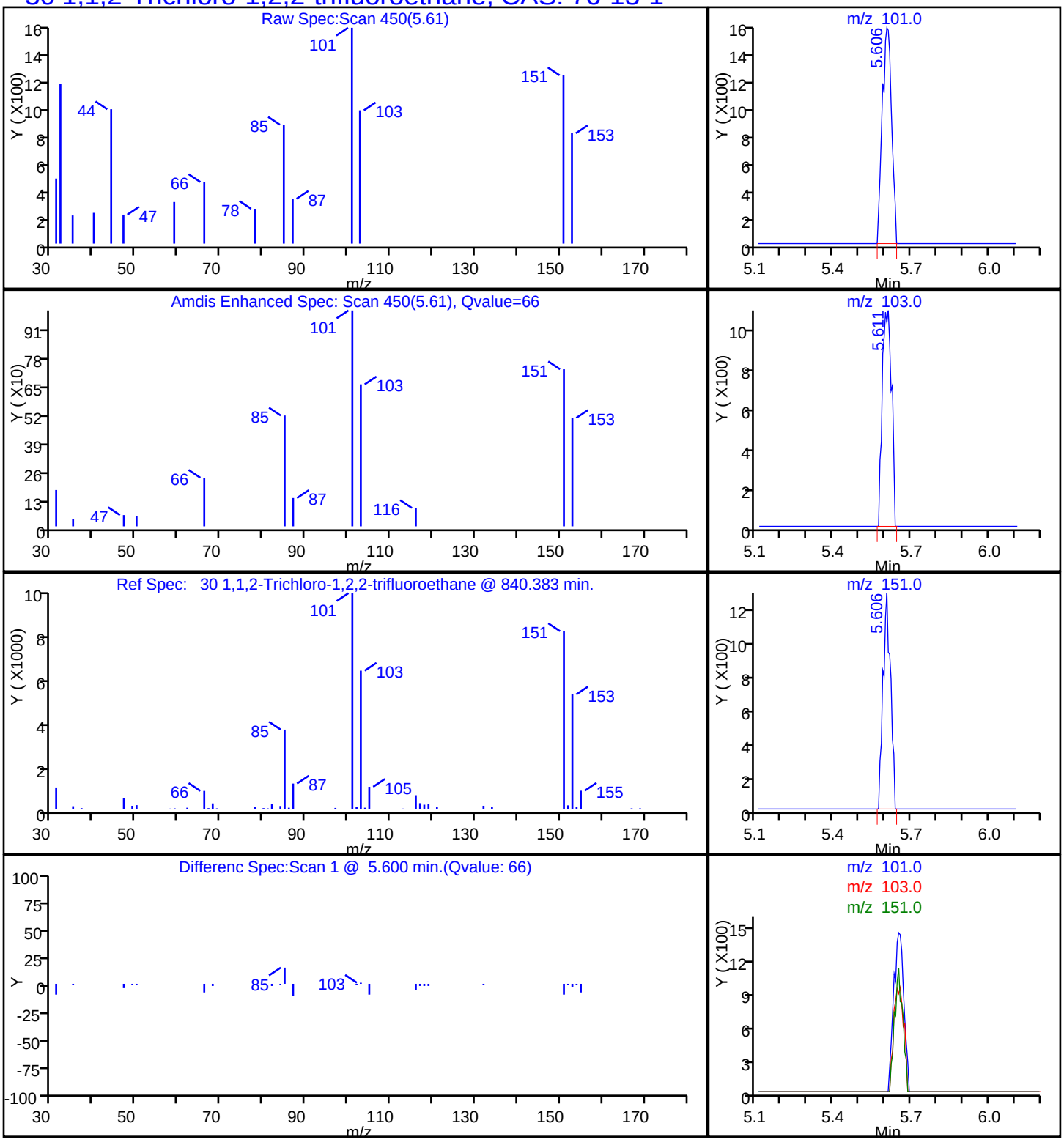
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date: 15-Mar-2014 01:16:30 Instrument ID: ME

Lims ID: 140-1041-A-12 Lab Sample ID: 140-1041-12

Client ID: PCV-IA1-B4

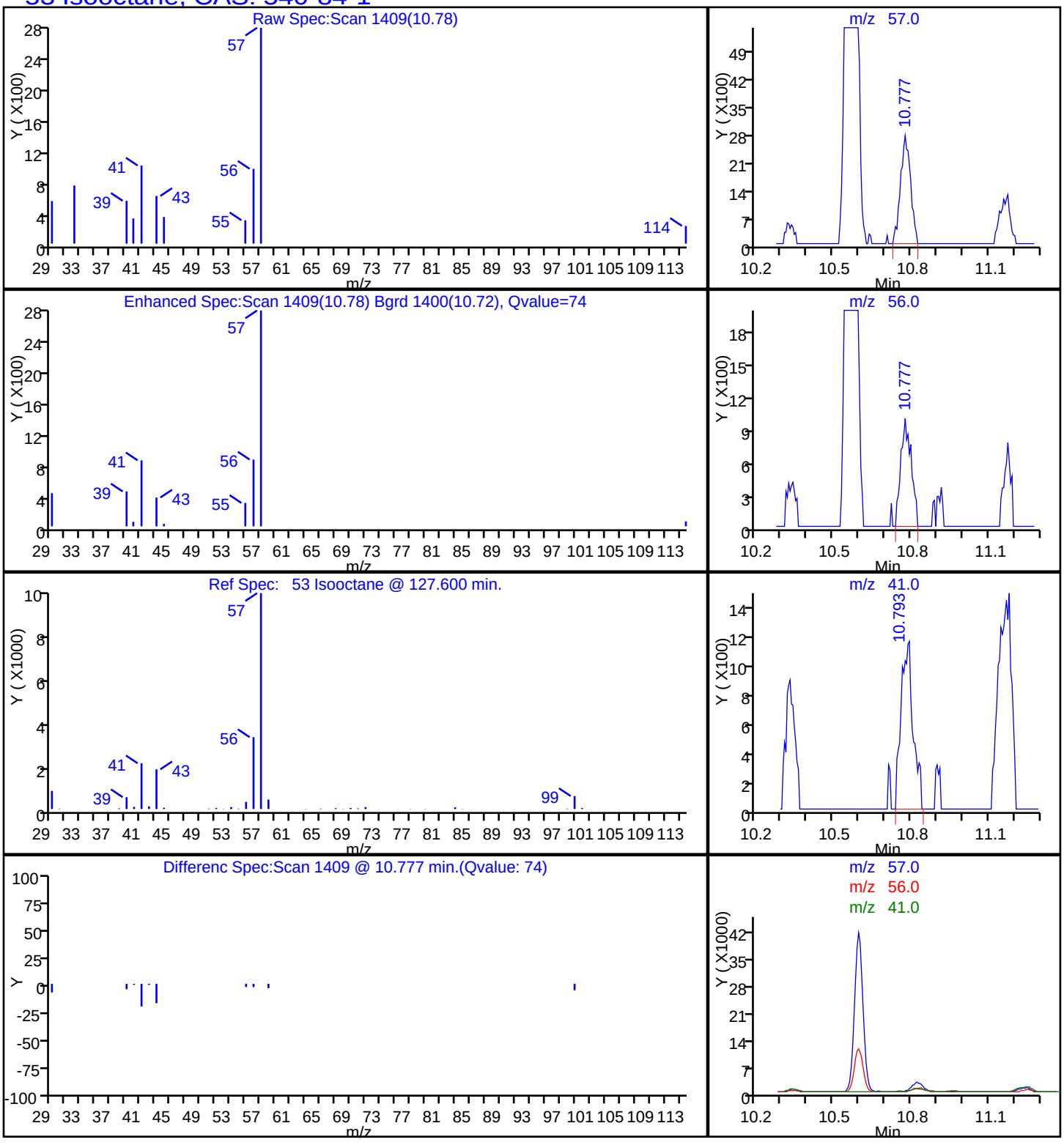
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



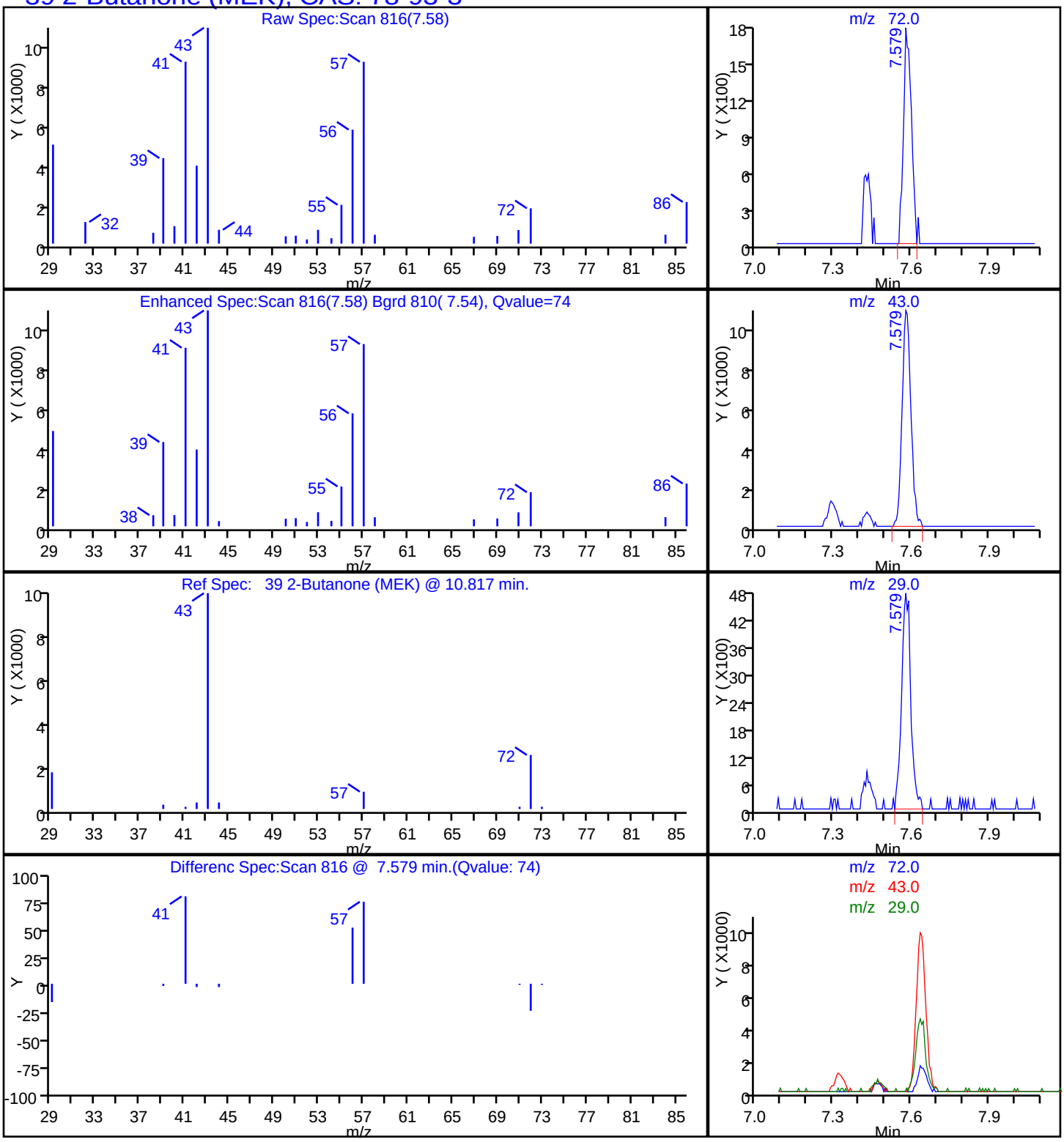
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



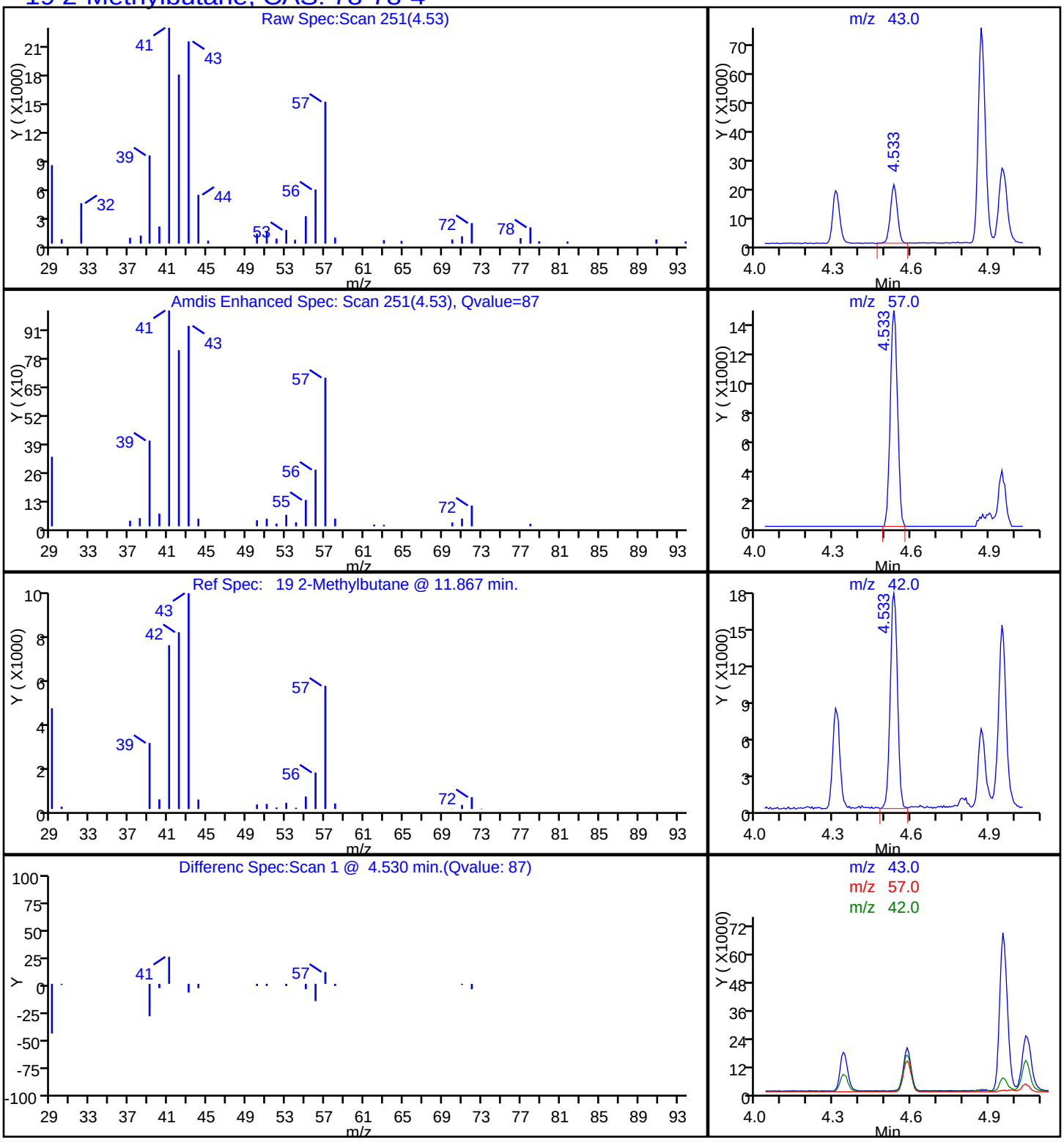
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



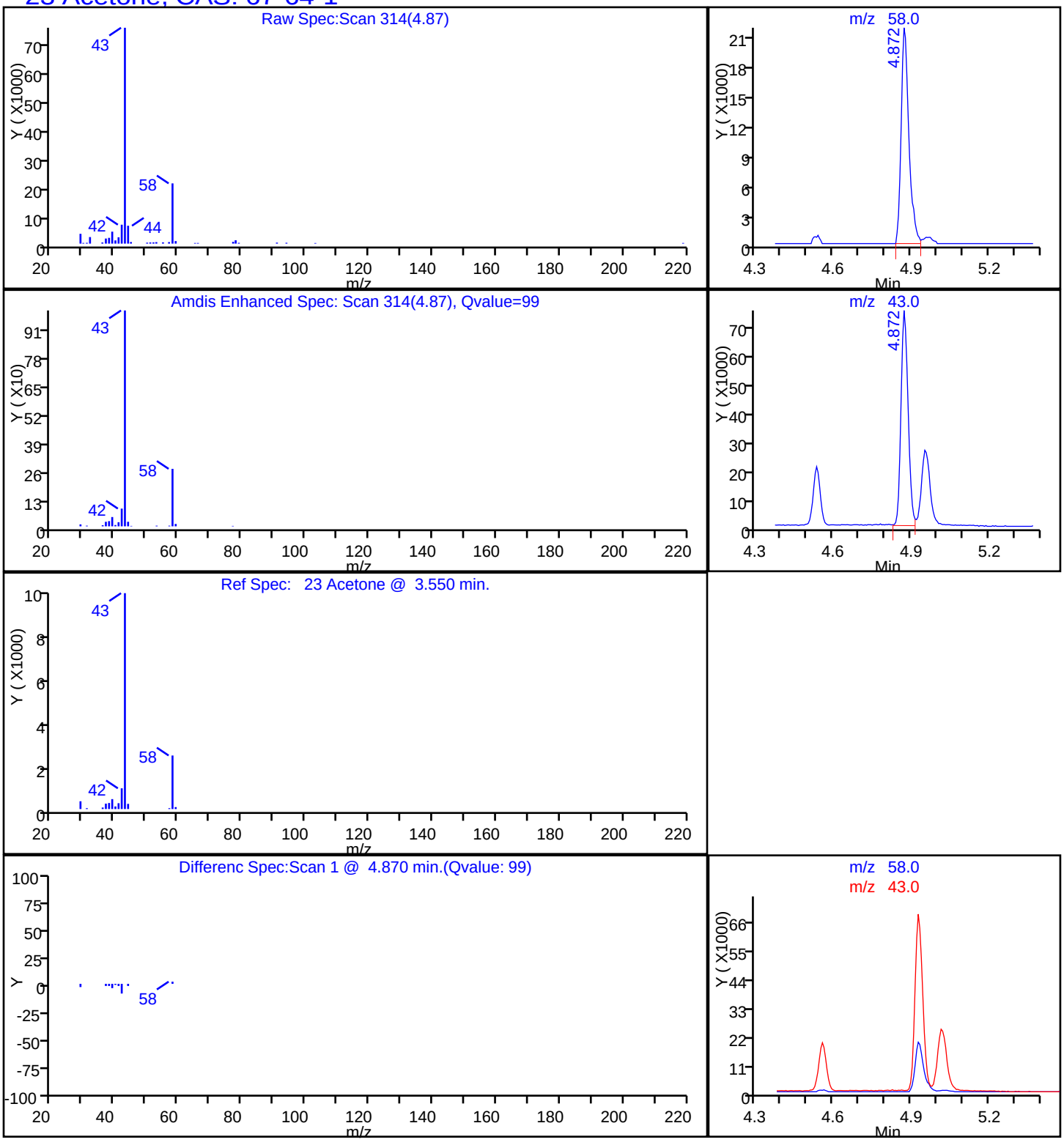
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



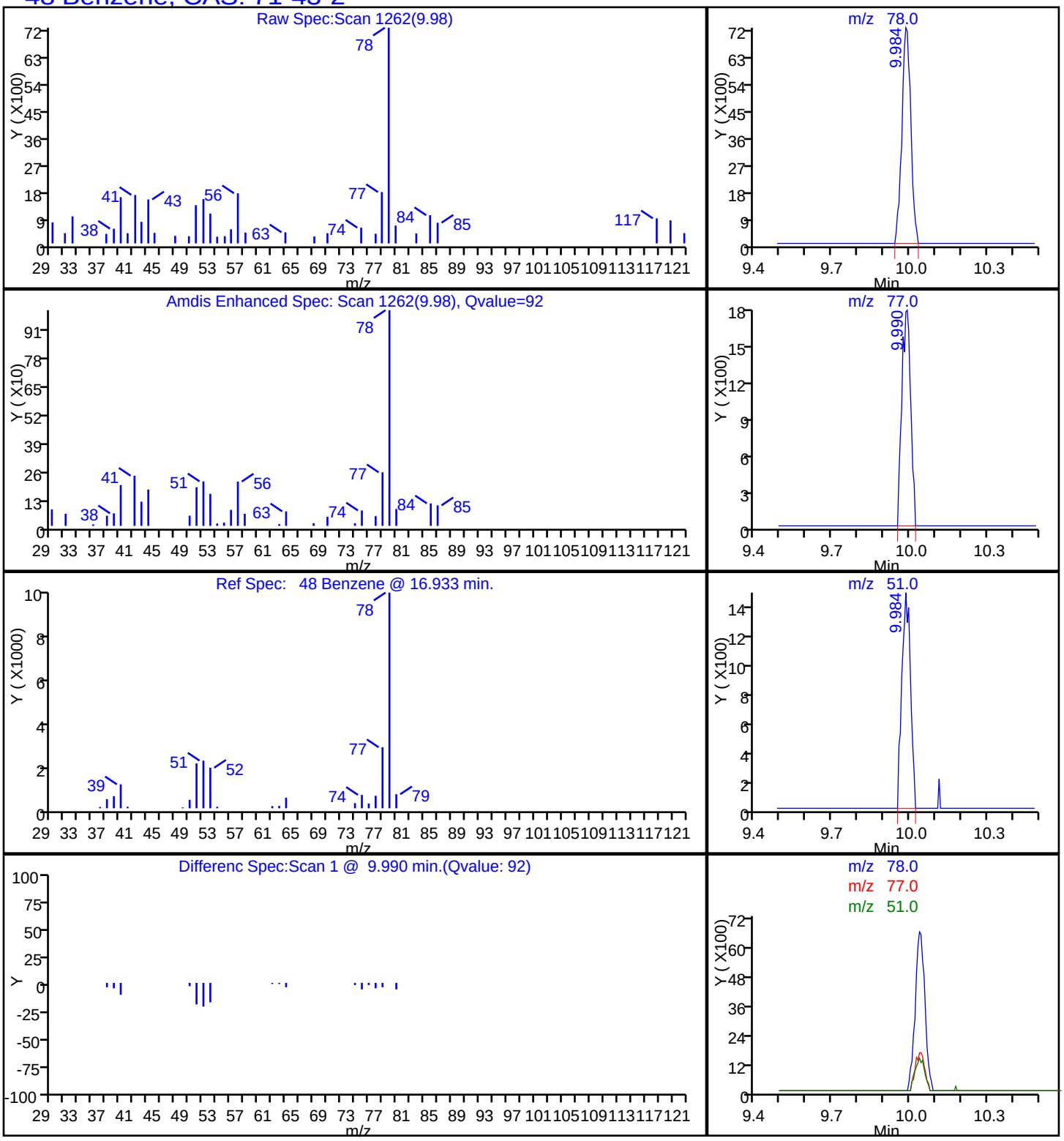
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date: 15-Mar-2014 01:16:30 Instrument ID: ME

Lims ID: 140-1041-A-12 Lab Sample ID: 140-1041-12

Client ID: PCV-IA1-B4

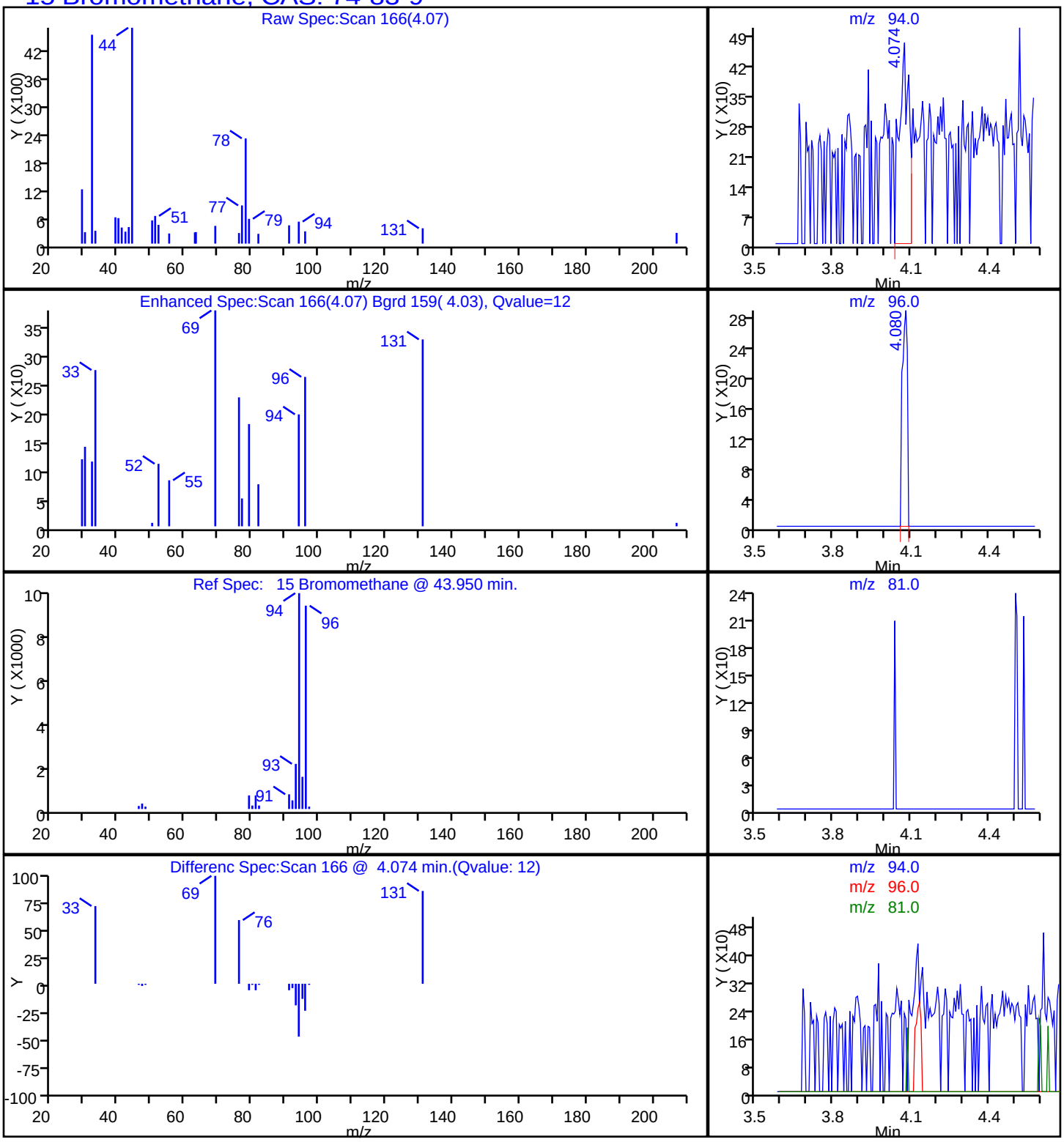
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

15 Bromomethane, CAS: 74-83-9



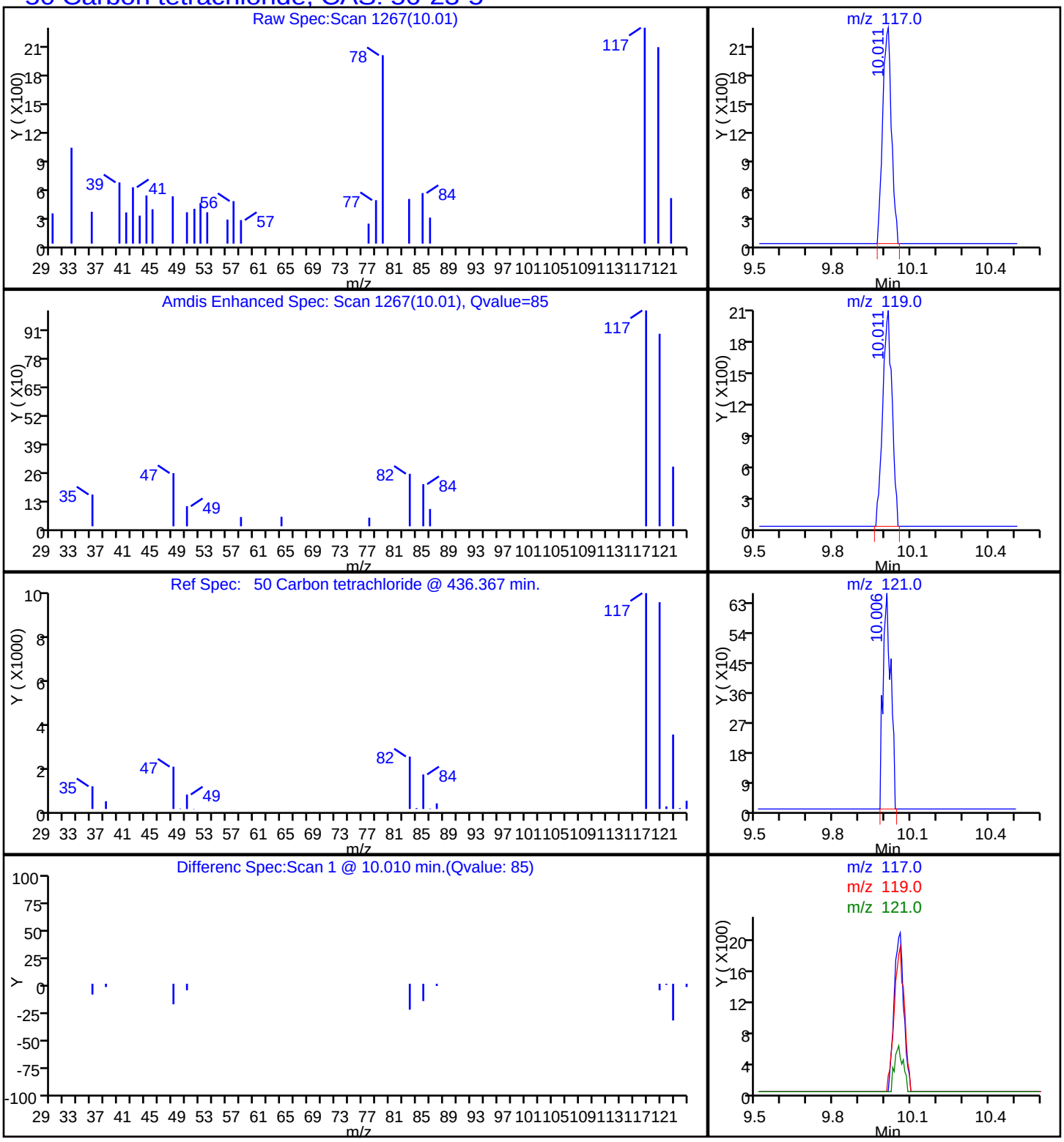
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



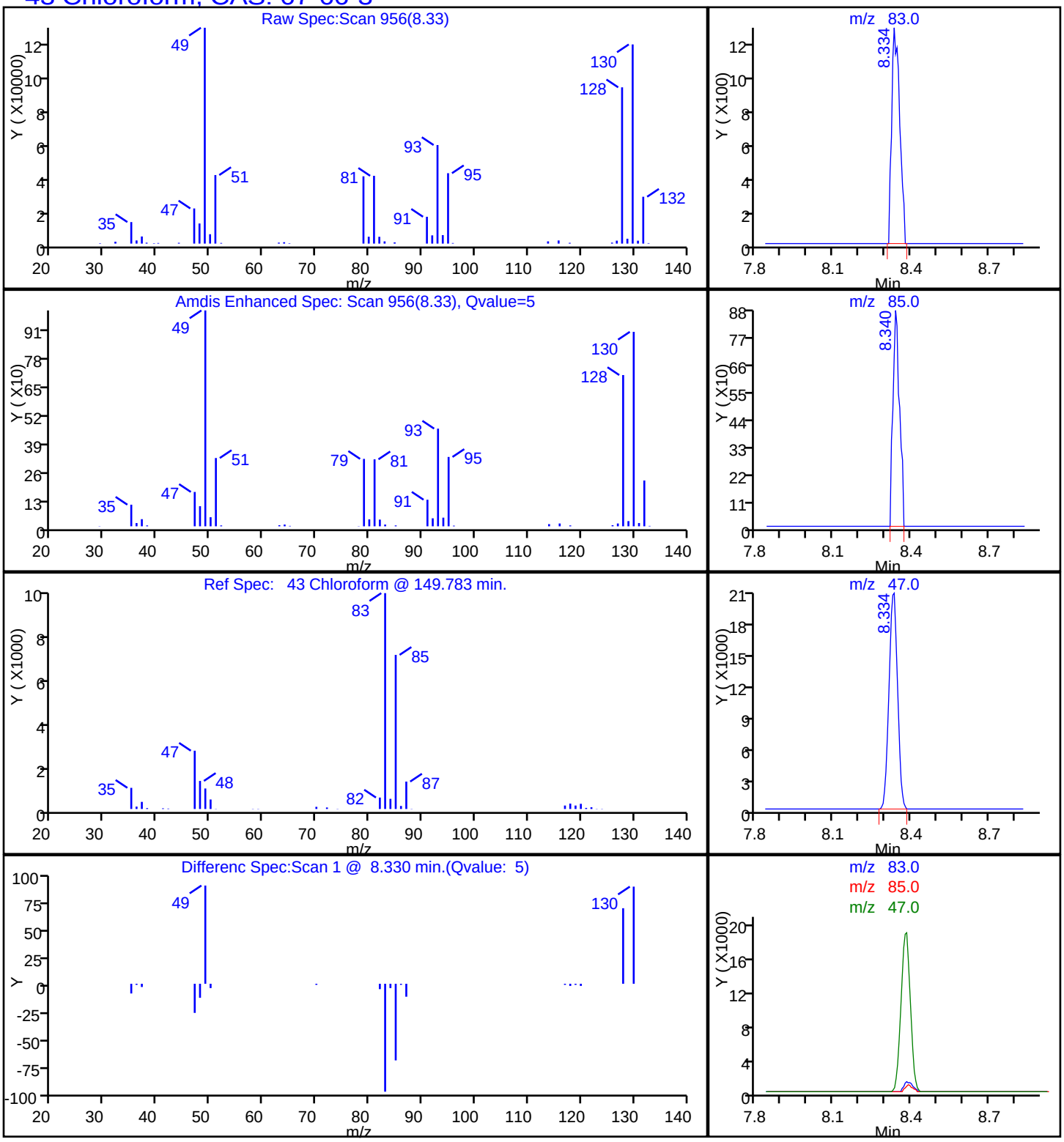
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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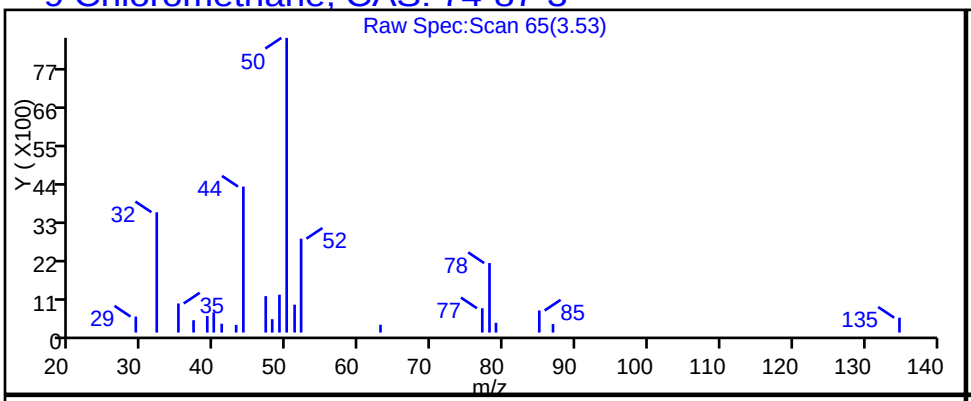
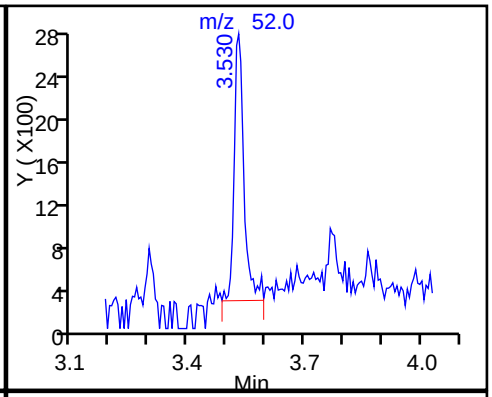
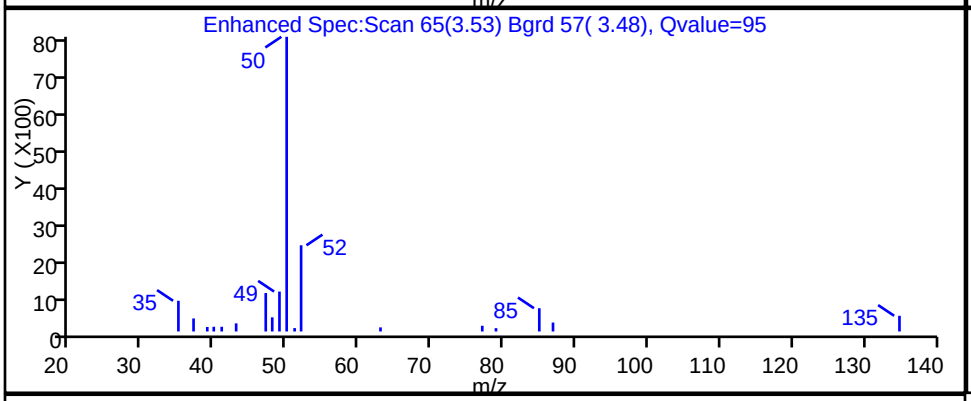
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

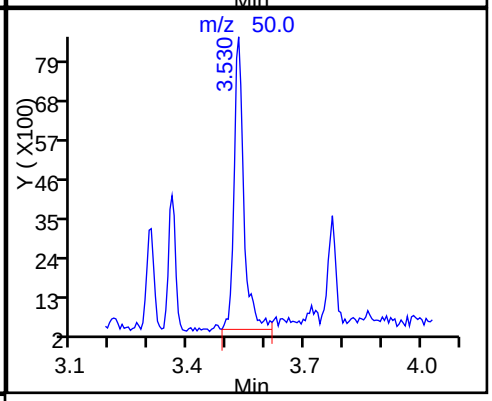
Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

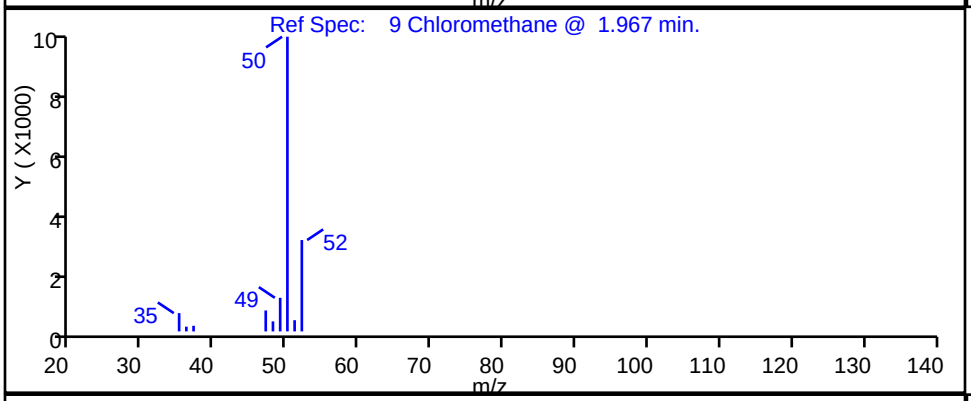
9 Chloromethane, CAS: 74-87-3

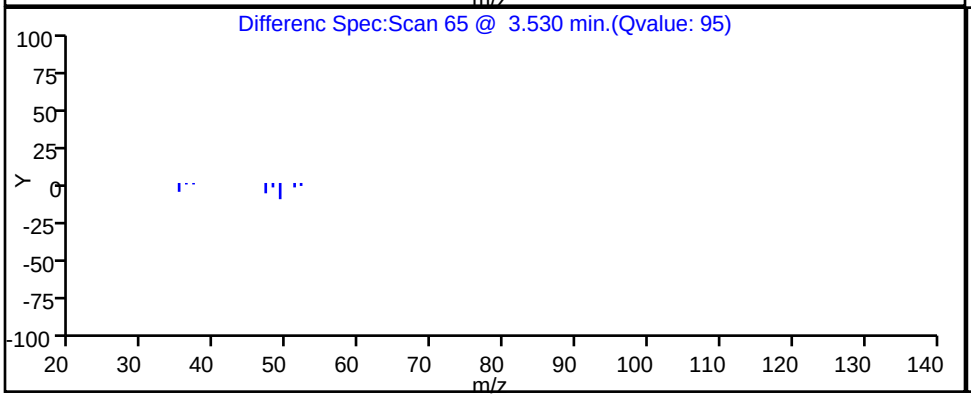


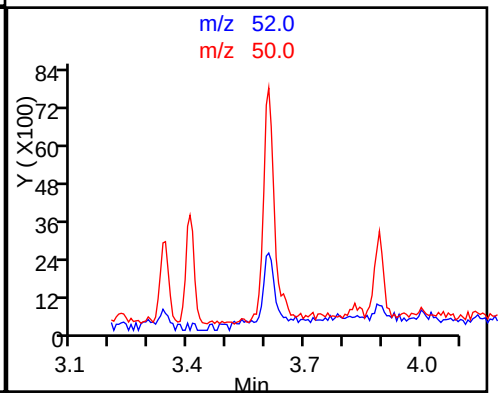








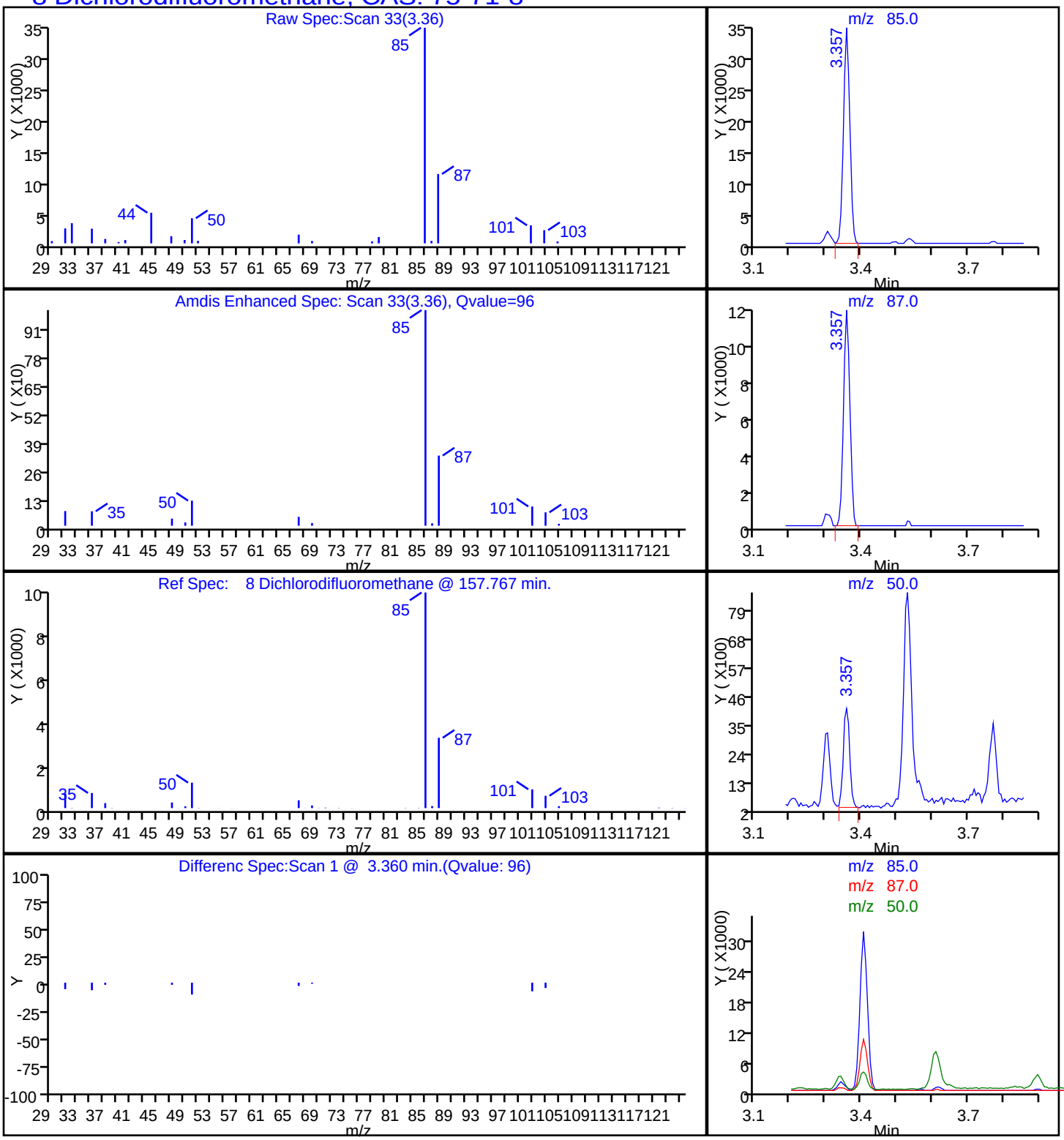




TestAmerica Knoxville

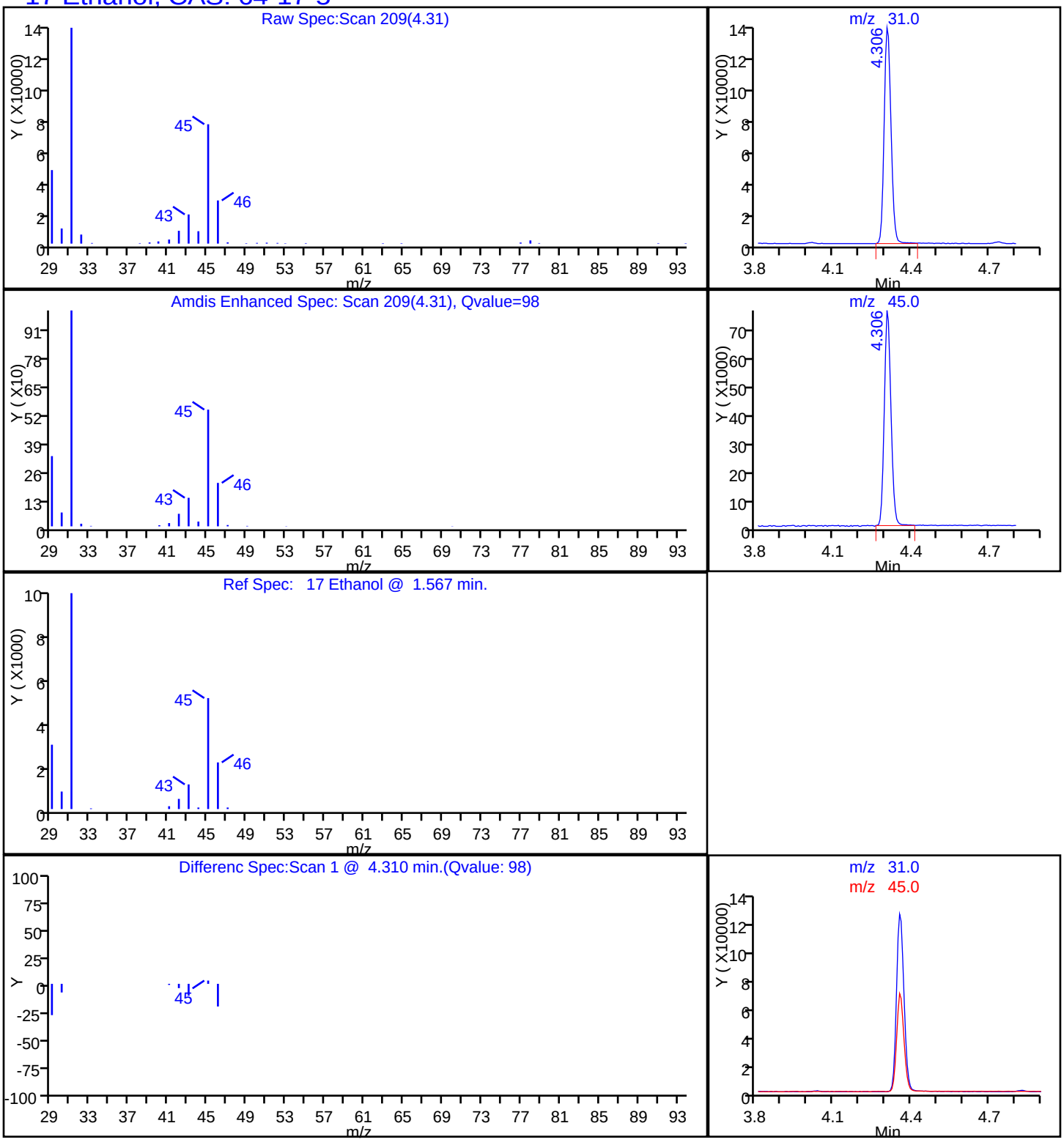
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D				
Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D
Injection Date: 15-Mar-2014 01:16:30 Instrument ID: ME
Lims ID: 140-1041-A-12 Lab Sample ID: 140-1041-12
Client ID: PCV-IA1-B4
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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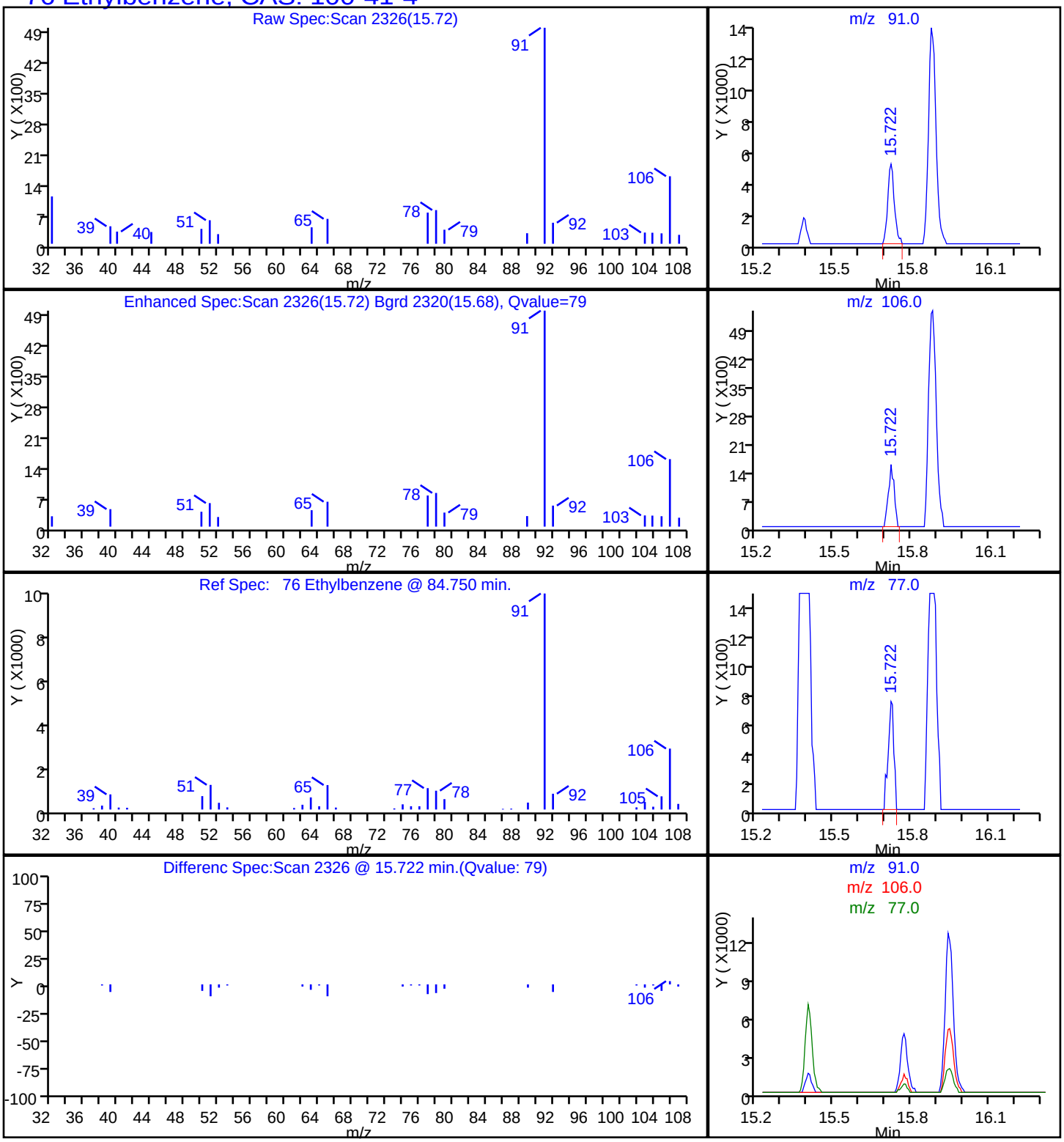
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



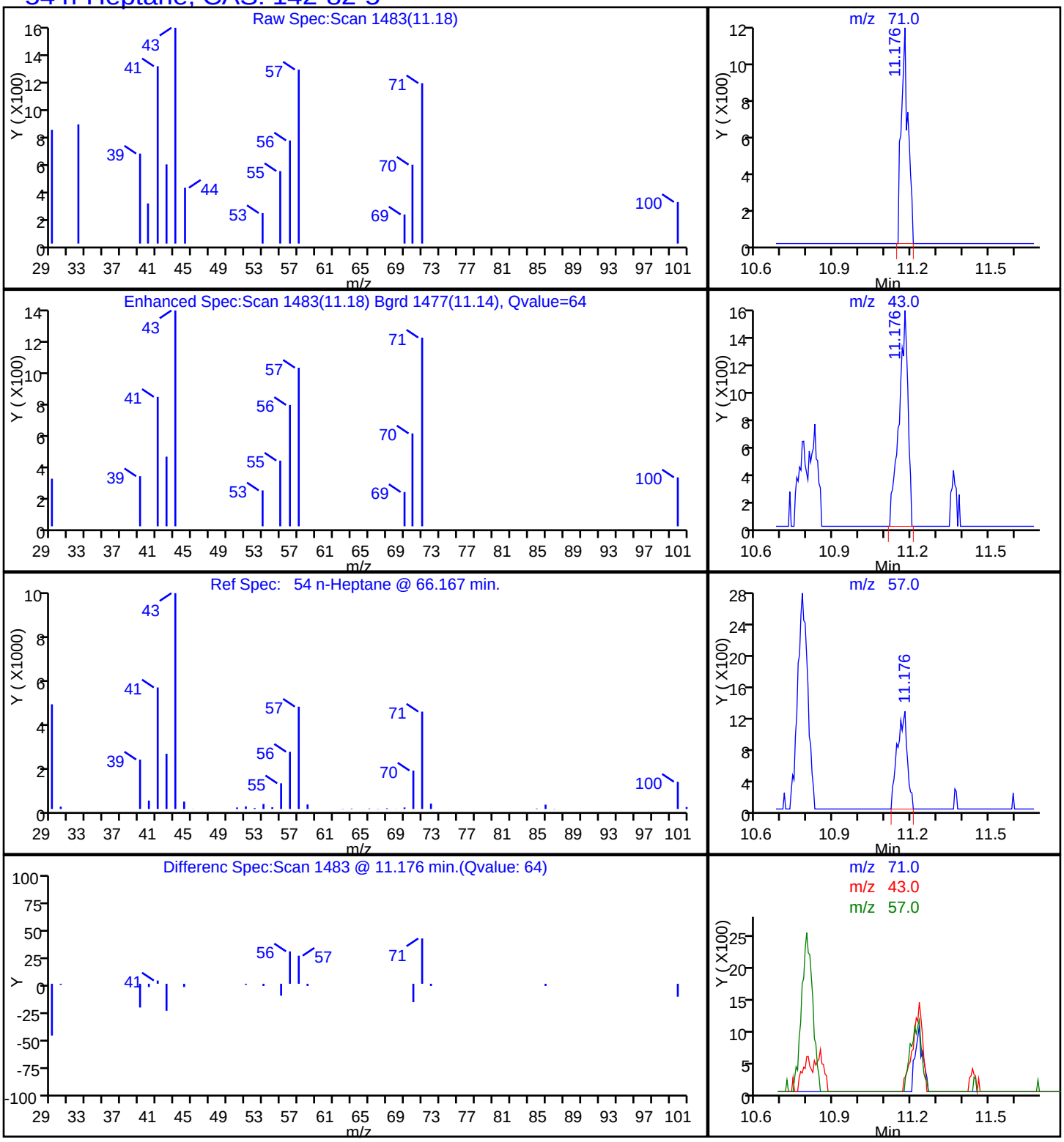
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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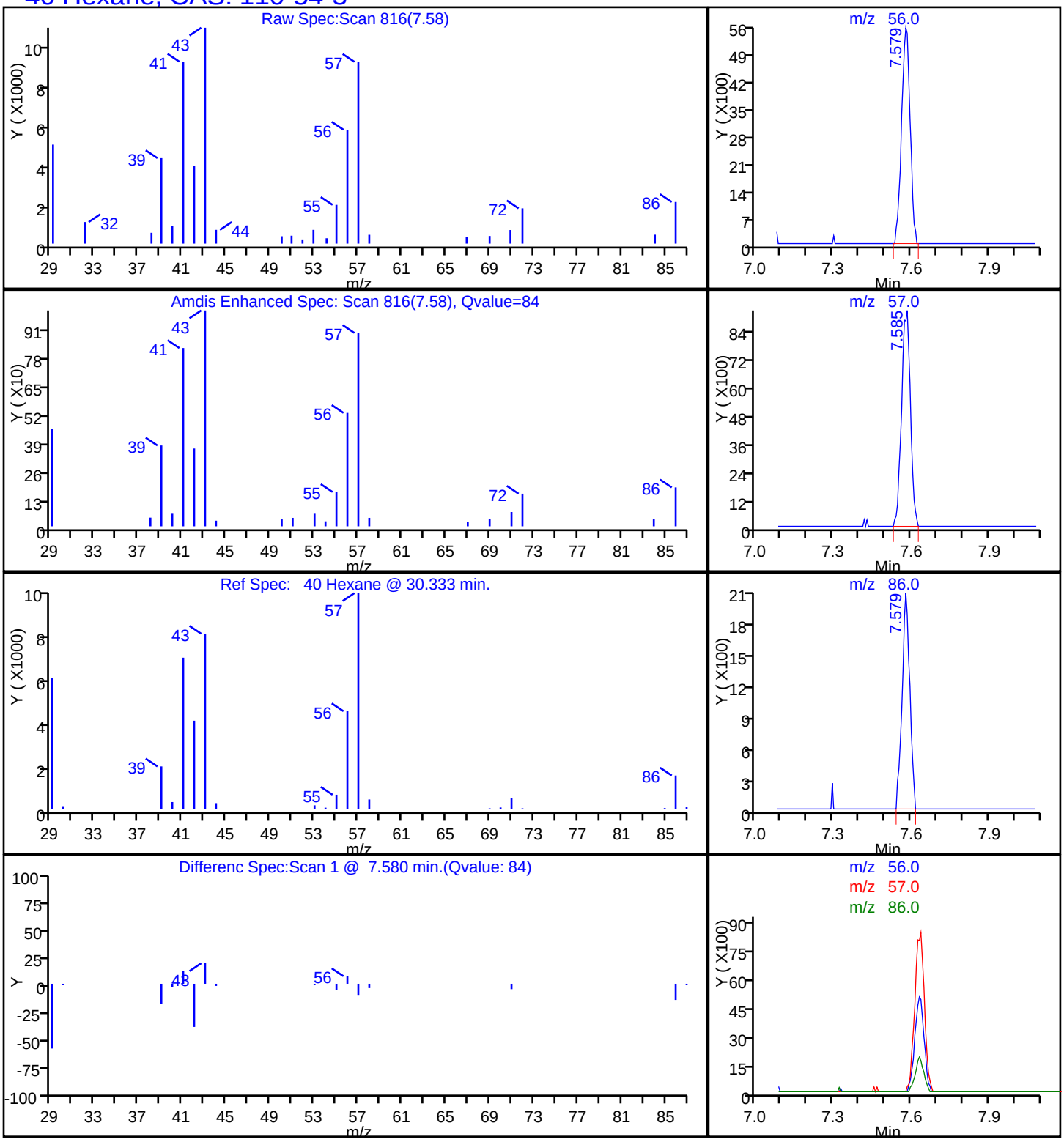
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D		
Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date: 15-Mar-2014 01:16:30 Instrument ID: ME

Lims ID: 140-1041-A-12 Lab Sample ID: 140-1041-12

Client ID: PCV-IA1-B4

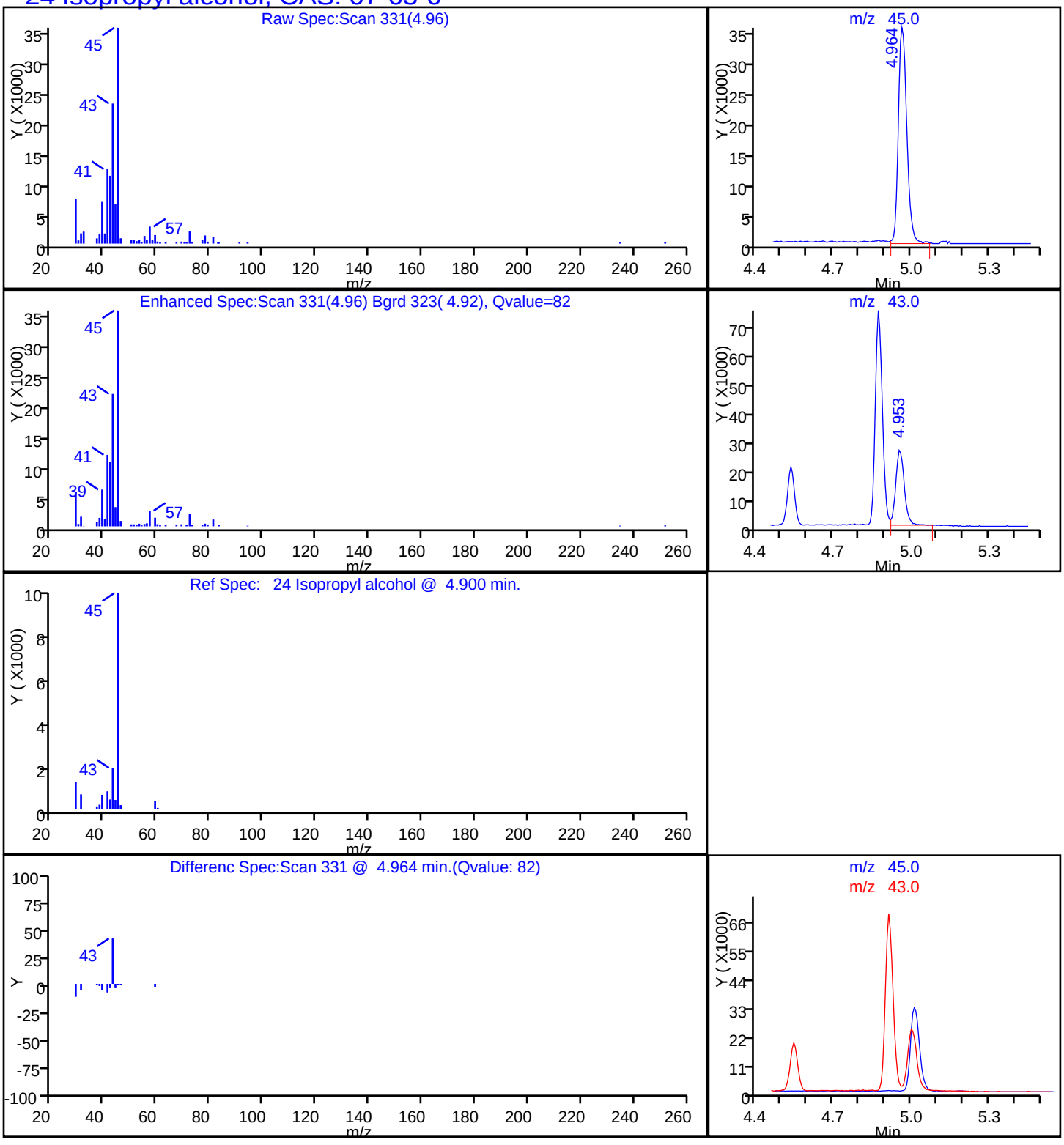
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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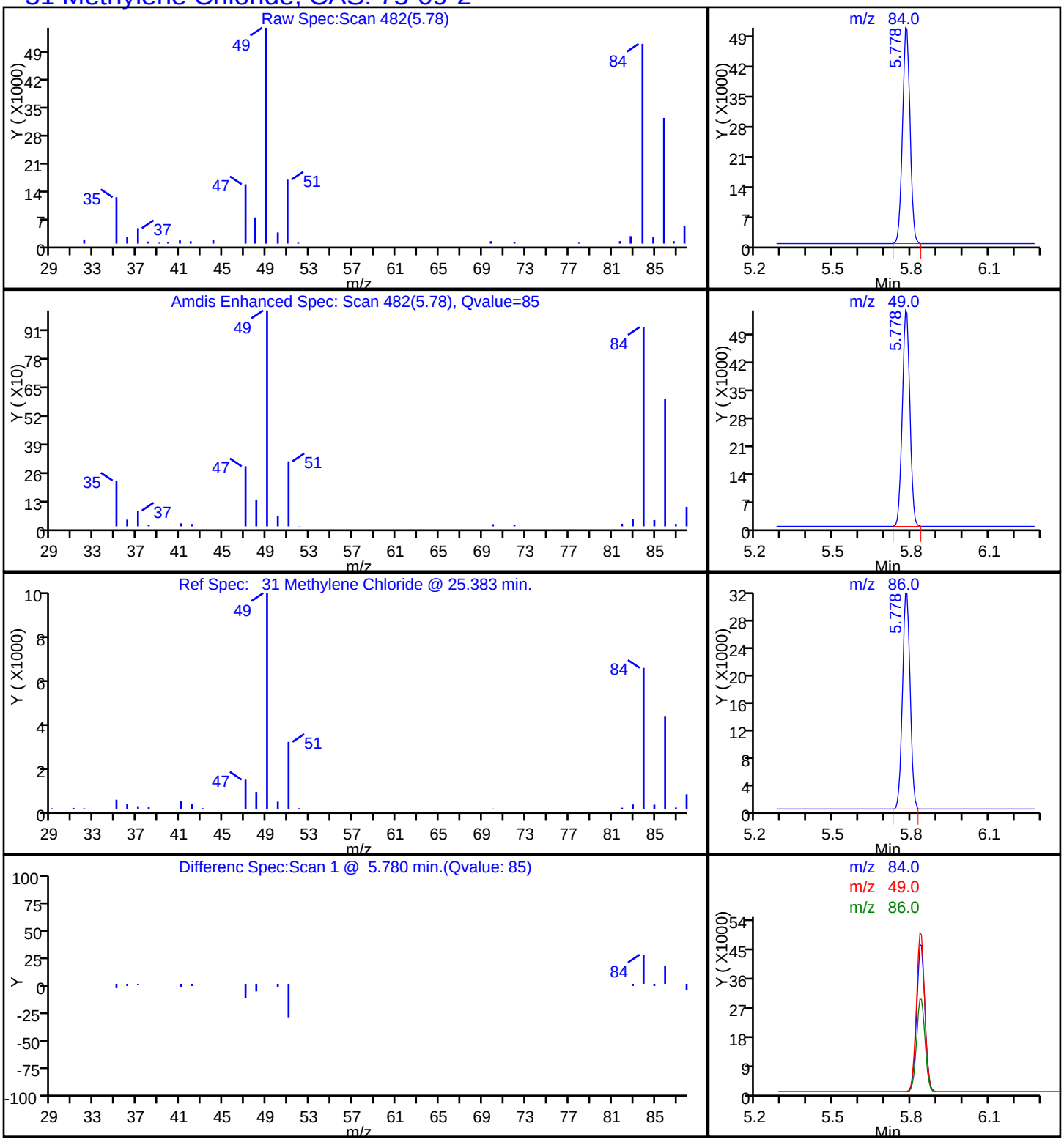
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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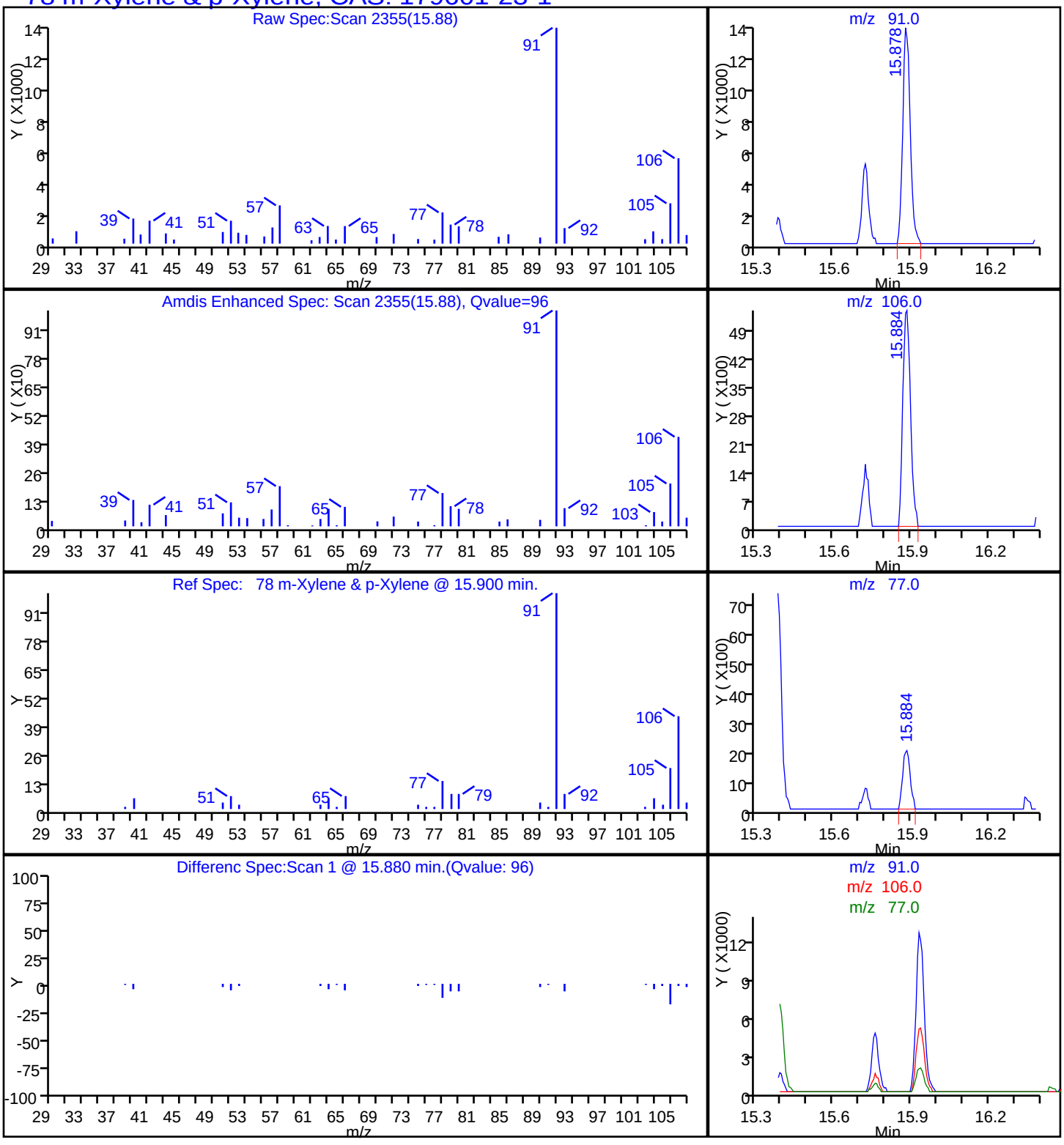
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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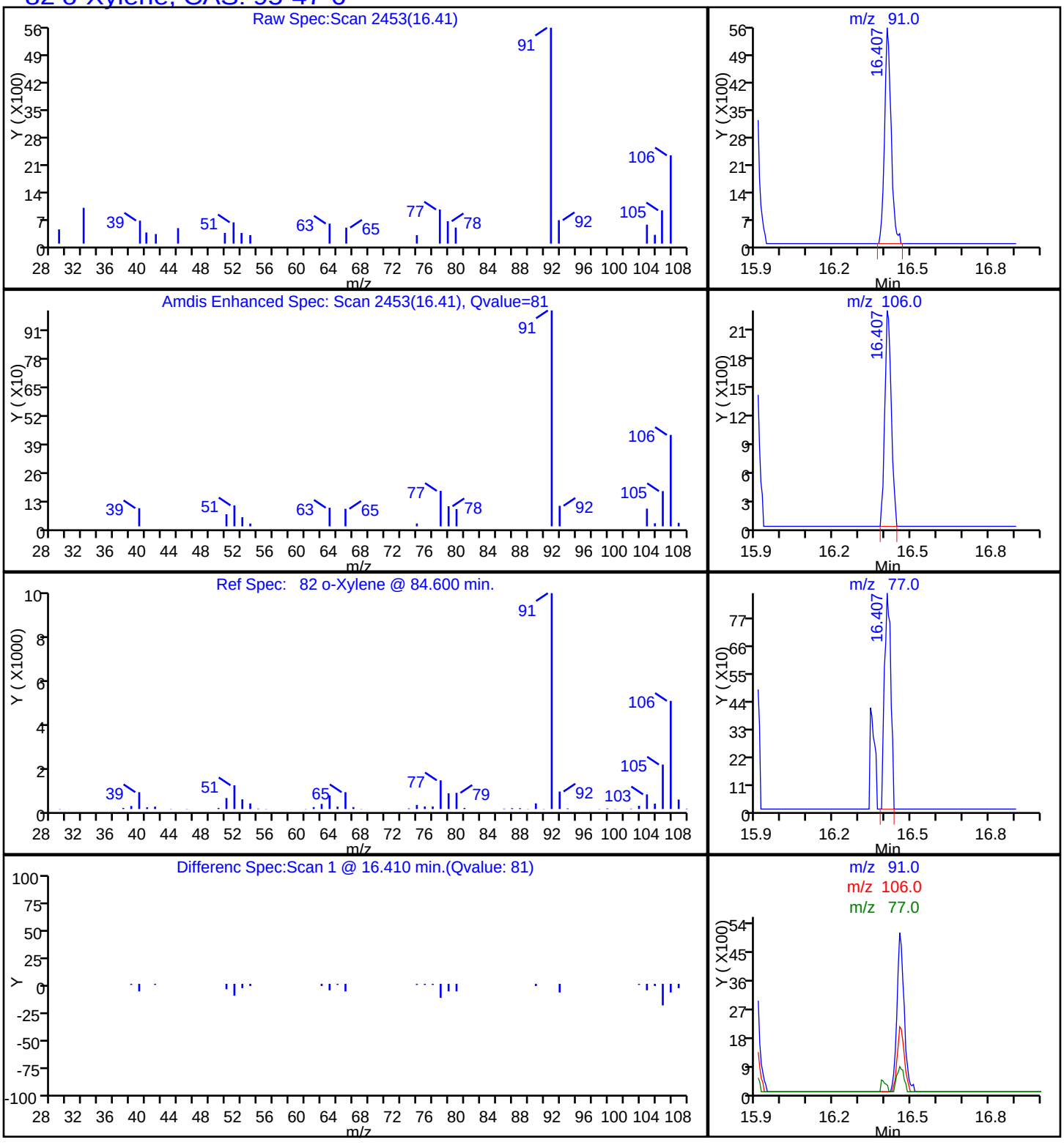
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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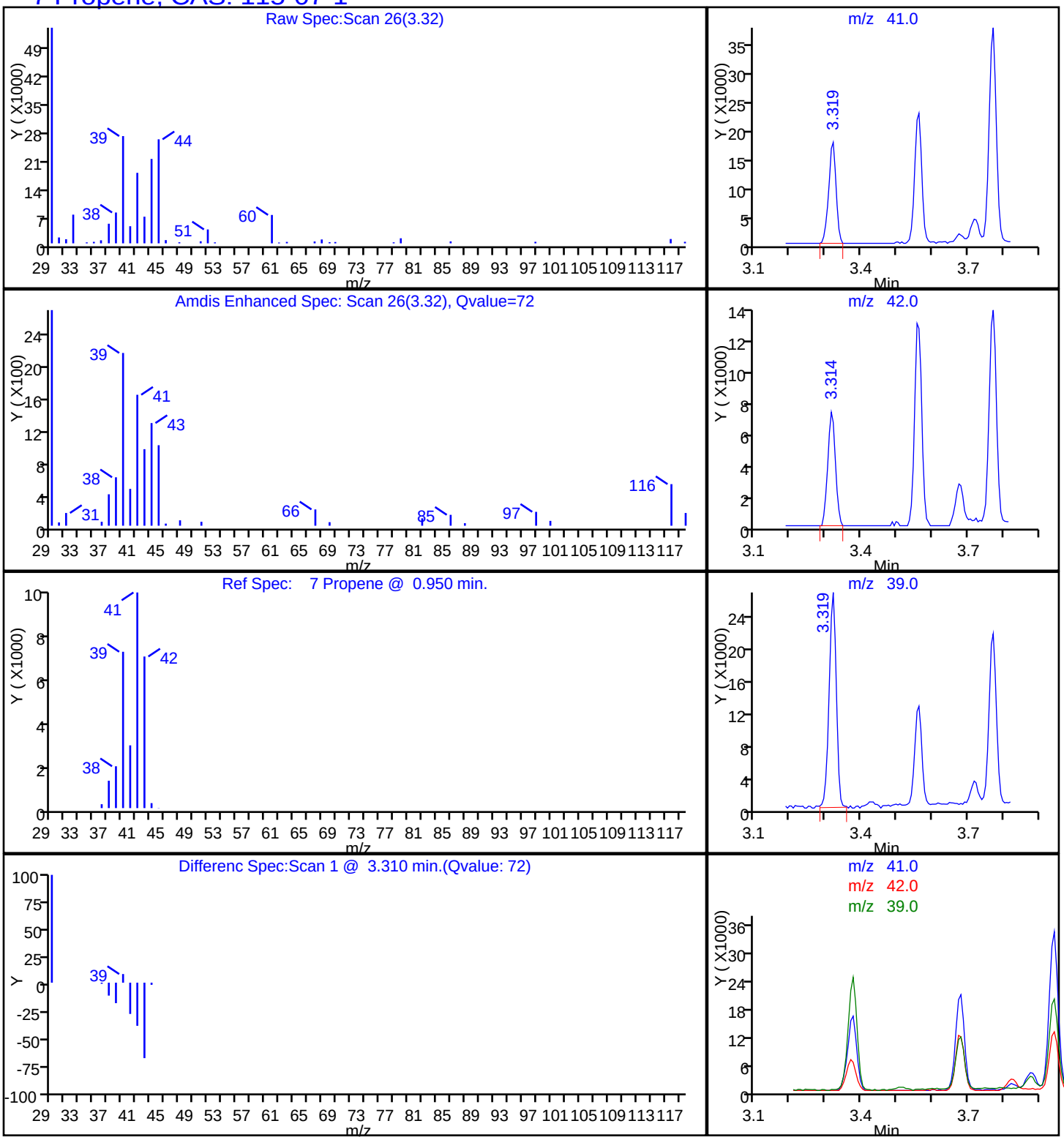
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D				
Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D		
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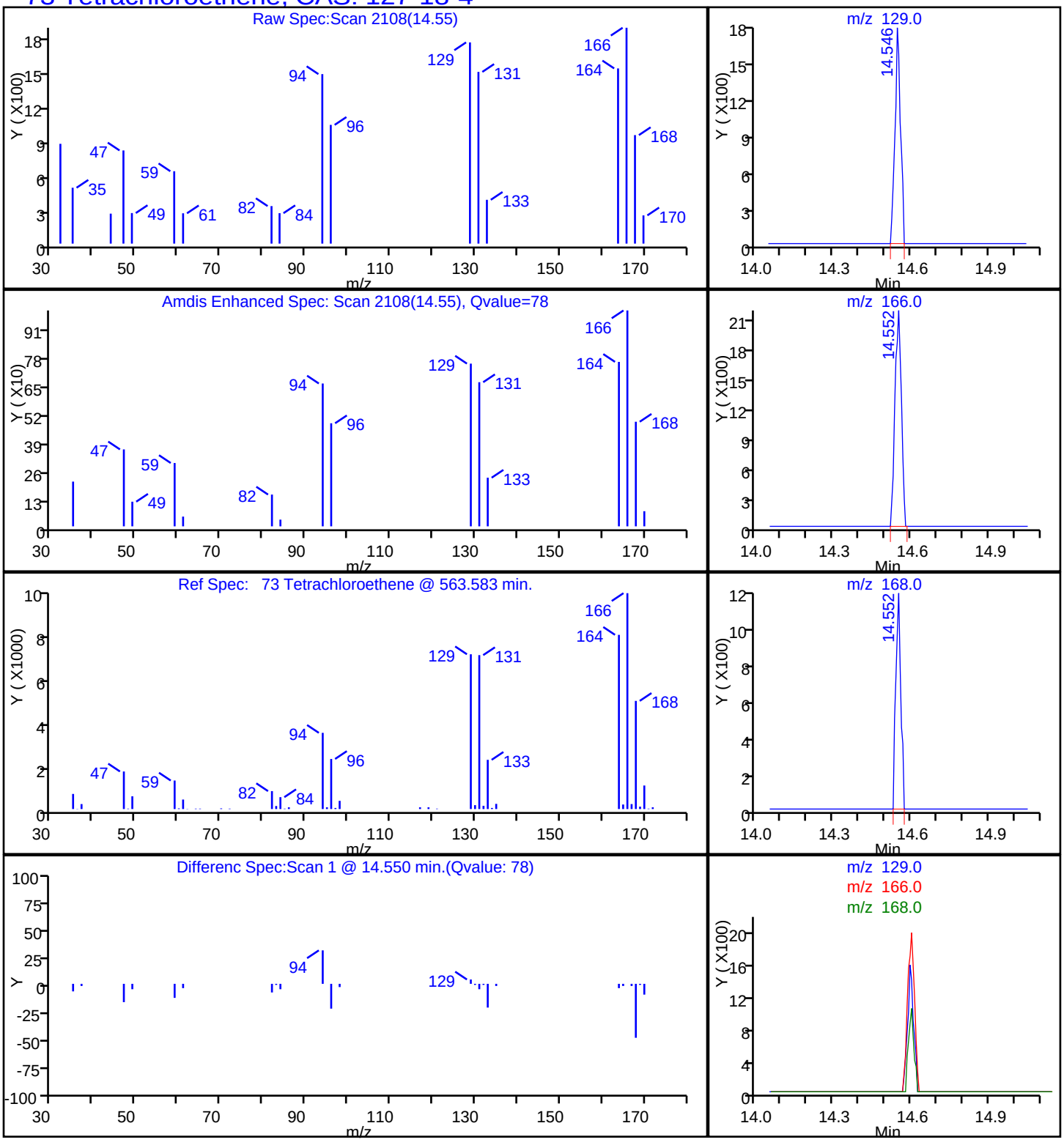
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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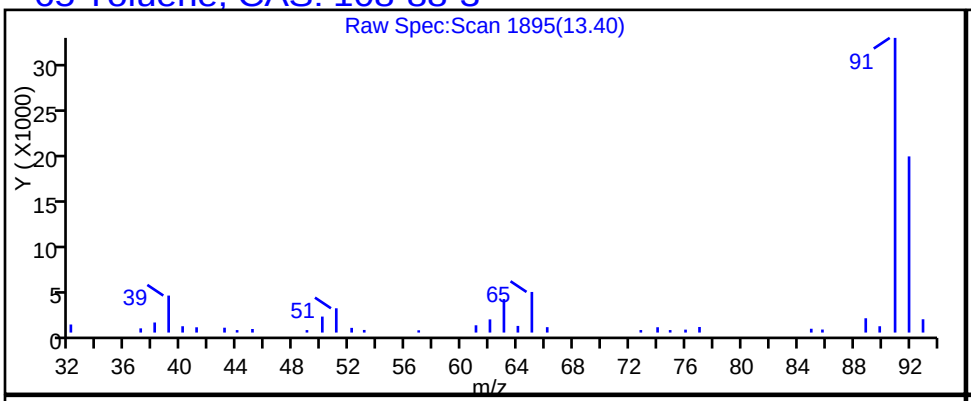
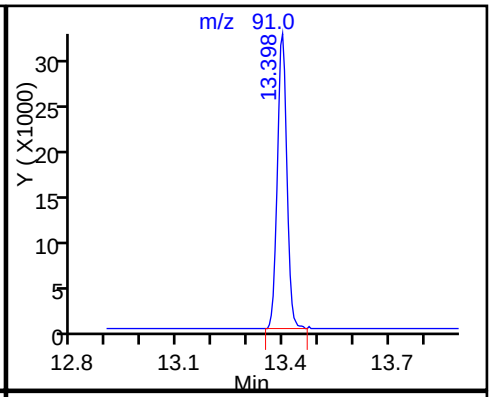
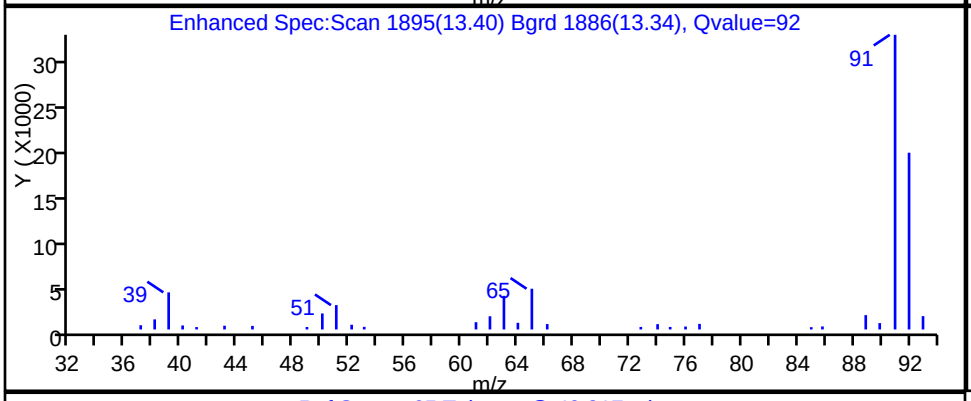
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

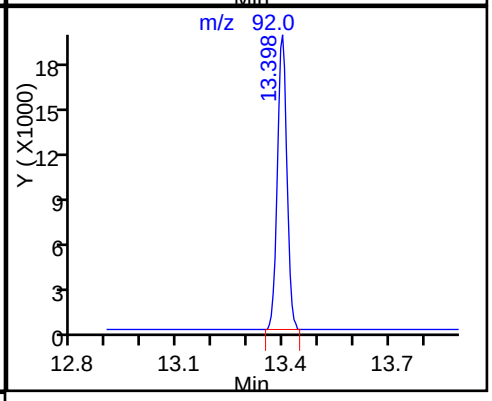
Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12
Client ID:	PCV-IA1-B4		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

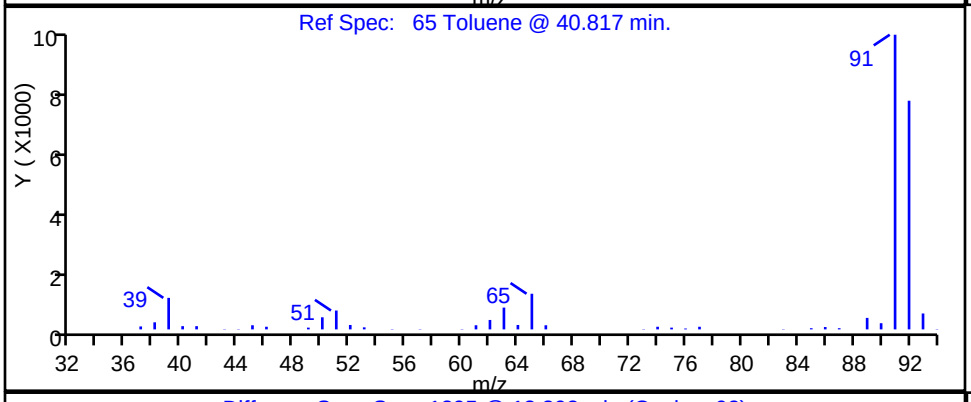
65 Toluene, CAS: 108-88-3

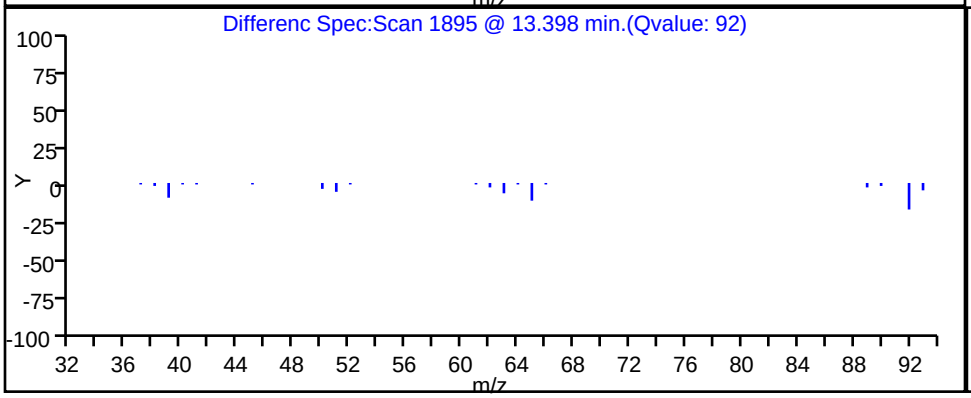


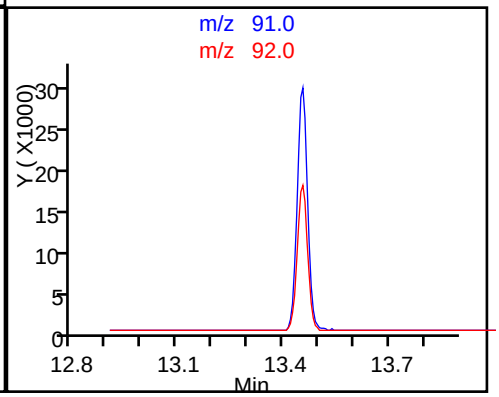












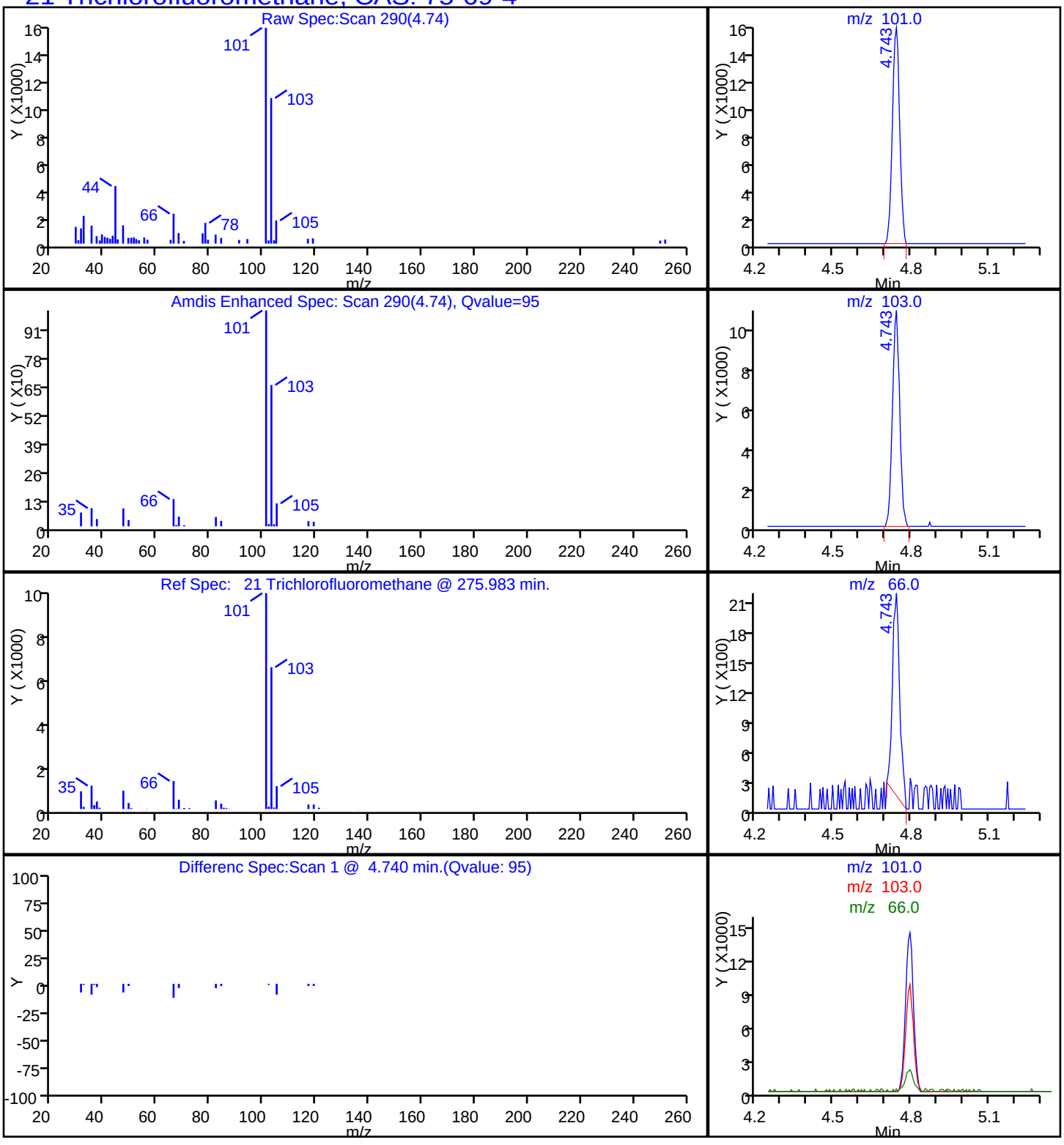
Report Date: 24-Mar-2014 15:50:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P112.D

Injection Date:	15-Mar-2014 01:16:30	Instrument ID:	ME		
Lims ID:	140-1041-A-12	Lab Sample ID:	140-1041-12		
Client ID:	PCV-IA1-B4				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 Lab Sample ID: 140-1041-13

Matrix: Air Lab File ID: EC14P113.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.053	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.28	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.78		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.056	J	0.50	0.045
67-64-1	Acetone	58.08	3.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 Lab Sample ID: 140-1041-13

Matrix: Air Lab File ID: EC14P113.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.30		0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.049	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	35		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.055	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.8	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.73		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.11	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.28		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.31		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 Lab Sample ID: 140-1041-13

Matrix: Air Lab File ID: EC14P113.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 | Lab Sample ID: 140-1041-13

Matrix: Air | Lab File ID: EC14P113.D

Analysis Method: TO-15 | Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) | Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 958 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.84	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.23	J	2.0	0.18
67-64-1	Acetone	58.08	7.8	J	12	3.3
71-43-2	Benzene	78.11	0.74		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 Lab Sample ID: 140-1041-13

Matrix: Air Lab File ID: EC14P113.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.5		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	66		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.5		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.58	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.77	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA1-B3 Lab Sample ID: 140-1041-13

Matrix: Air Lab File ID: EC14P113.D

Analysis Method: TO-15 Date Collected: 03/11/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D
Lims ID: 140-1041-A-13 Lab Sample ID: 140-1041-13
Client ID: PCV-IA1-B3
Sample Type: Client
Inject. Date: 15-Mar-2014 02:01:30 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-13
Misc. Info.: E031414,TO155,,140-0000522-018
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:33:42 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:33:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	187795	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	912841	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	803576	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	750032	4.26	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	95	41476	0.1996	
9 Chloromethane	52	3.530	3.530	0.0	98	3599	0.2170	
17 Ethanol	31	4.312	4.317	-0.005	98	261701	13.9	
19 2-Methylbutane	43	4.538	4.538	0.0	87	20479	0.3114	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25518	0.1225	
23 Acetone	58	4.878	4.883	-0.005	93	37350	1.31	
24 Isopropyl alcohol	45	4.969	4.975	-0.006	88	52545	0.7175	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	67	3895	0.0302	
31 Methylene Chloride	84	5.789	5.795	-0.006	79	15683	0.2922	
39 2-Butanone (MEK)	72	7.579	7.585	-0.006	91	3501	0.1139	
40 Hexane	56	7.574	7.590	-0.016	58	2992	0.0599	
43 Chloroform	83	8.340	8.356	-0.016	47	19424	0.1207	
49 Cyclohexane	69	9.990	9.984	0.006	26	672	0.0195	
48 Benzene	78	9.990	9.995	-0.005	89	17114	0.0932	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	89	5722	0.0324	
53 Isooctane	57	10.777	10.788	-0.011	73	6023	0.0212	
54 n-Heptane	71	11.176	11.182	-0.006	68	1528	0.0220	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	56	2416	0.0223	
65 Toluene	91	13.398	13.403	-0.005	88	23770	0.1104	
73 Tetrachloroethene	129	14.552	14.552	0.0	77	4170	0.0455	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	88	11495	0.0530	

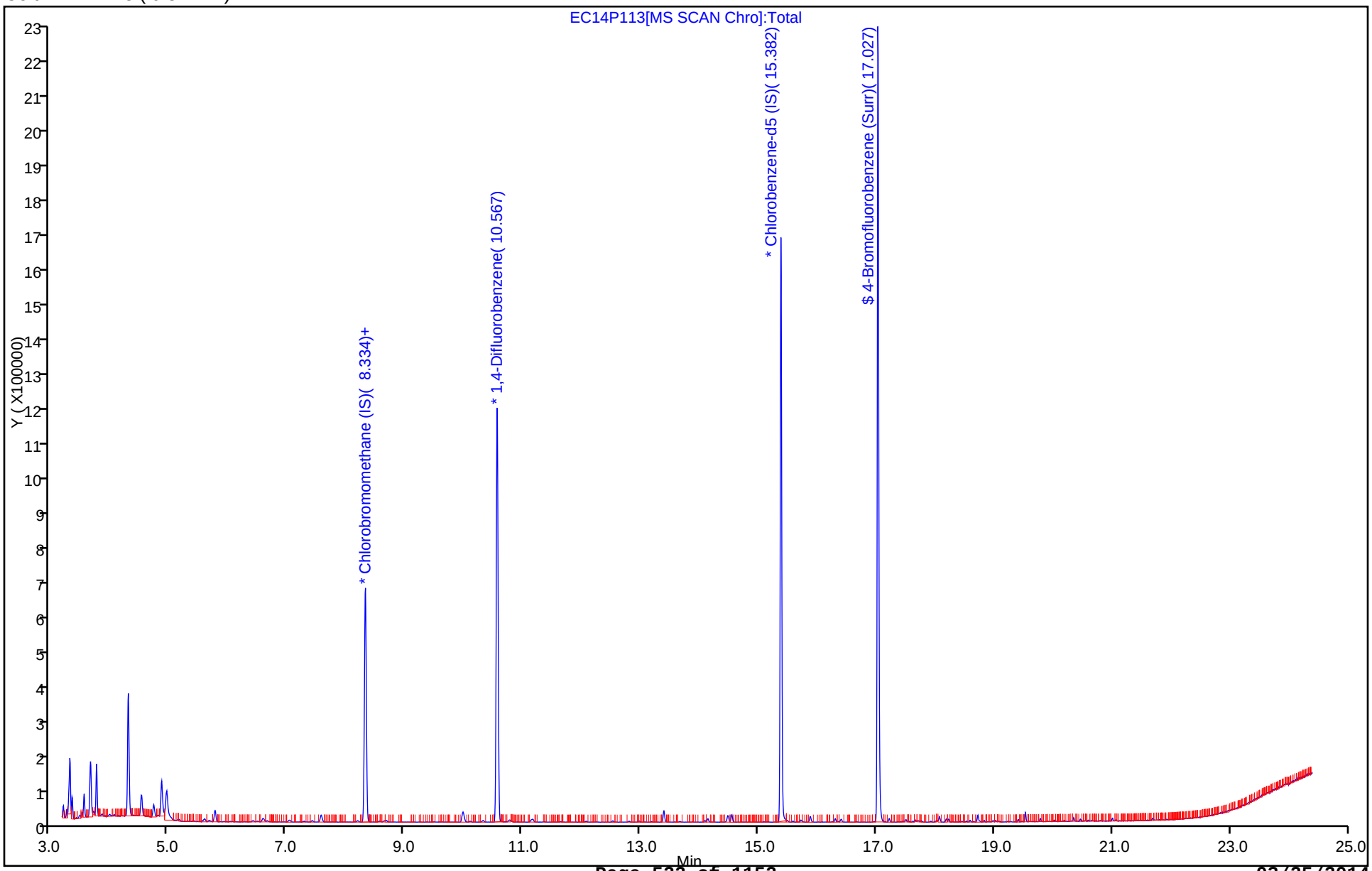
Report Date: 17-Mar-2014 16:33:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13	Worklist Smp#:	18
Client ID:	PCV-IA1-B3				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



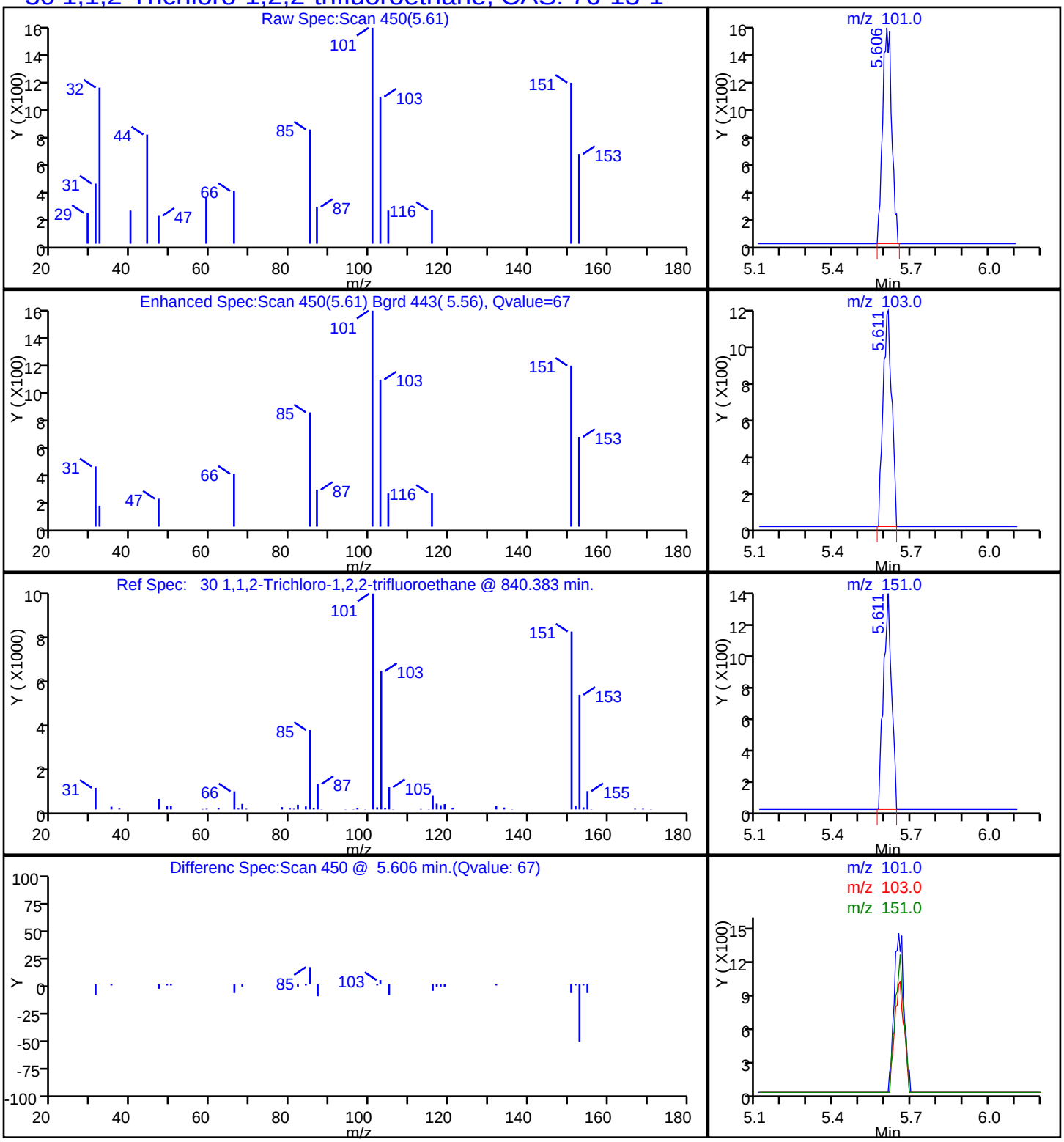
Report Date: 17-Mar-2014 16:33:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

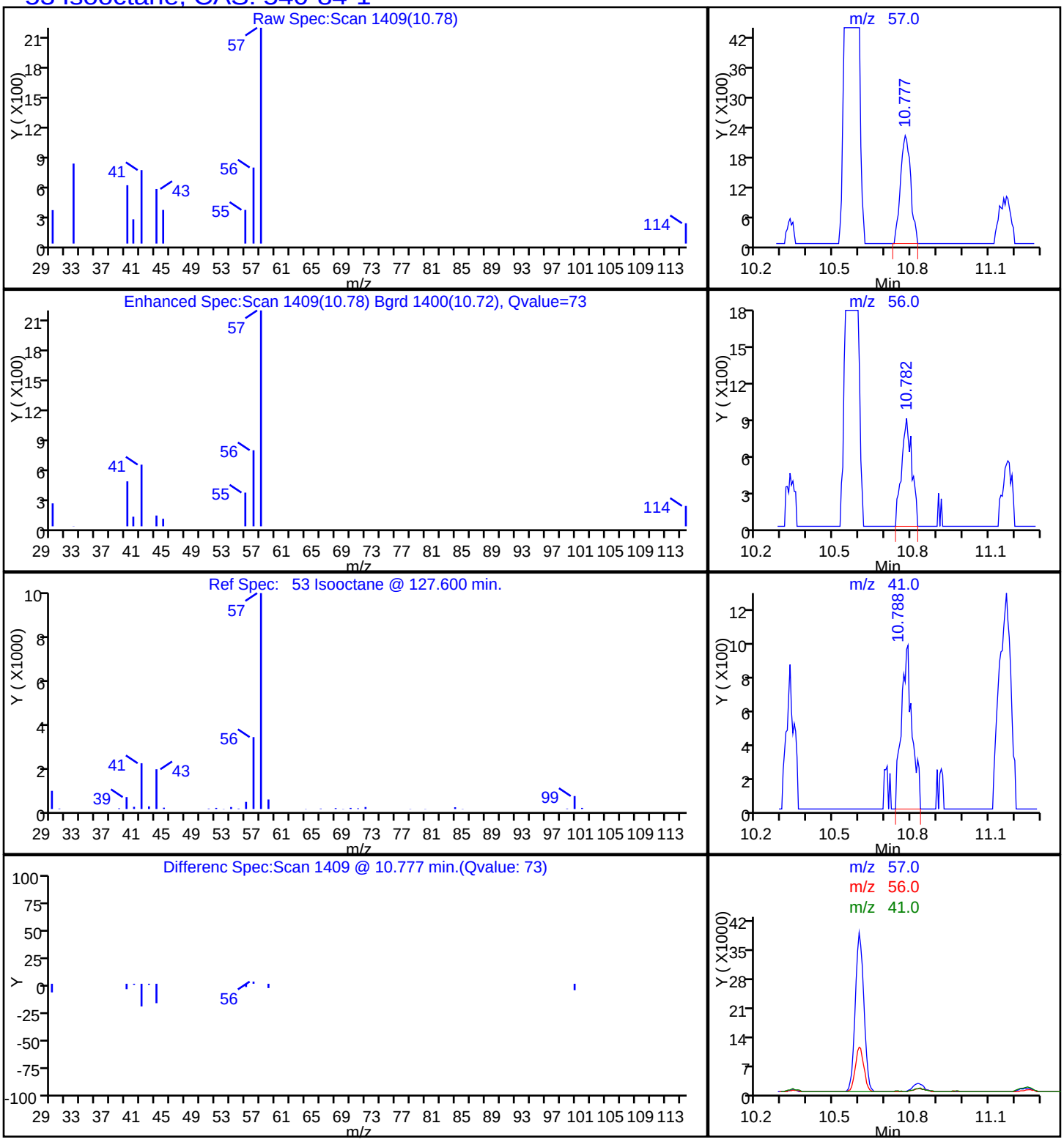


Report Date: 17-Mar-2014 16:33:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D				
Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



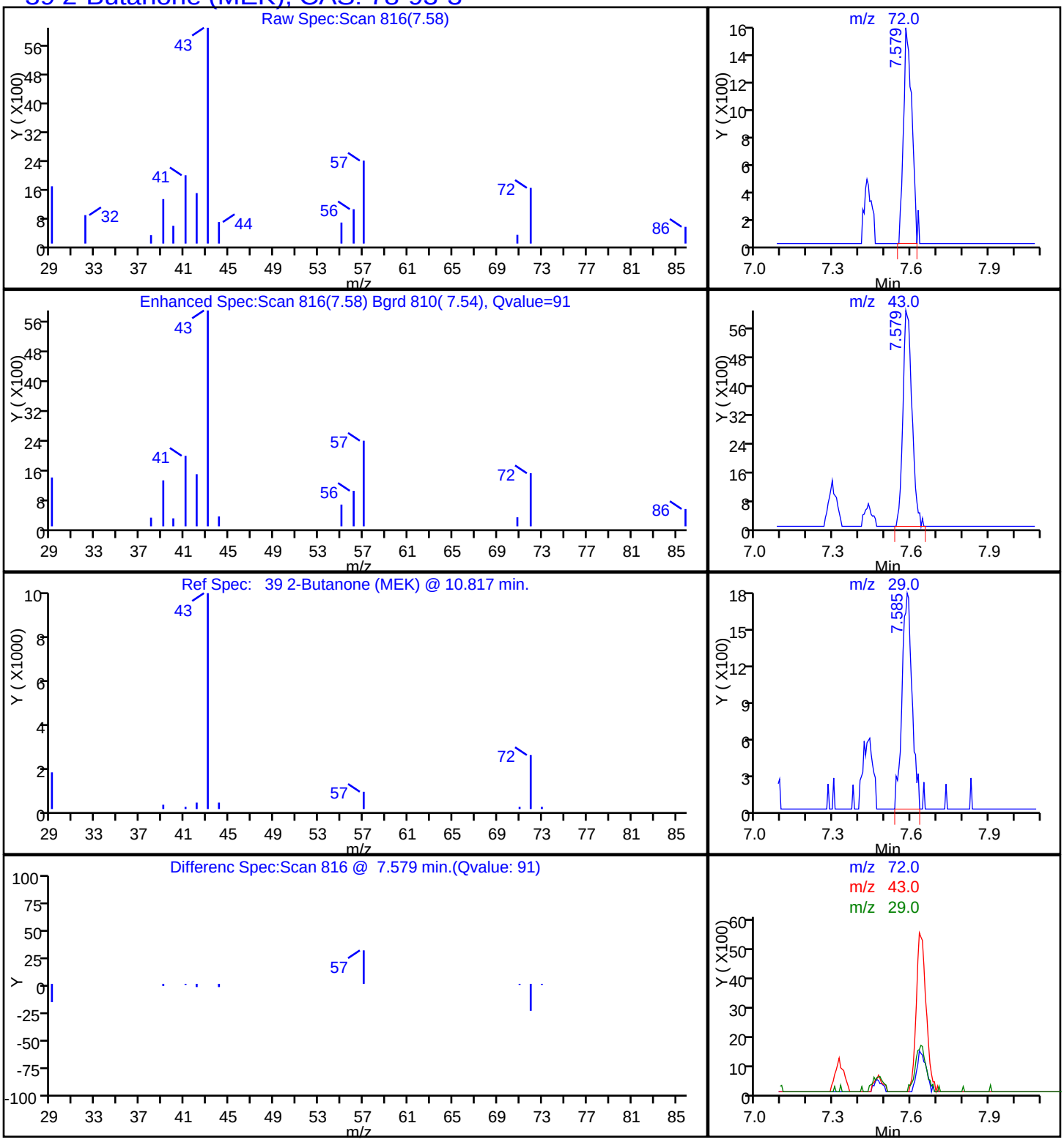
Report Date: 17-Mar-2014 16:33:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



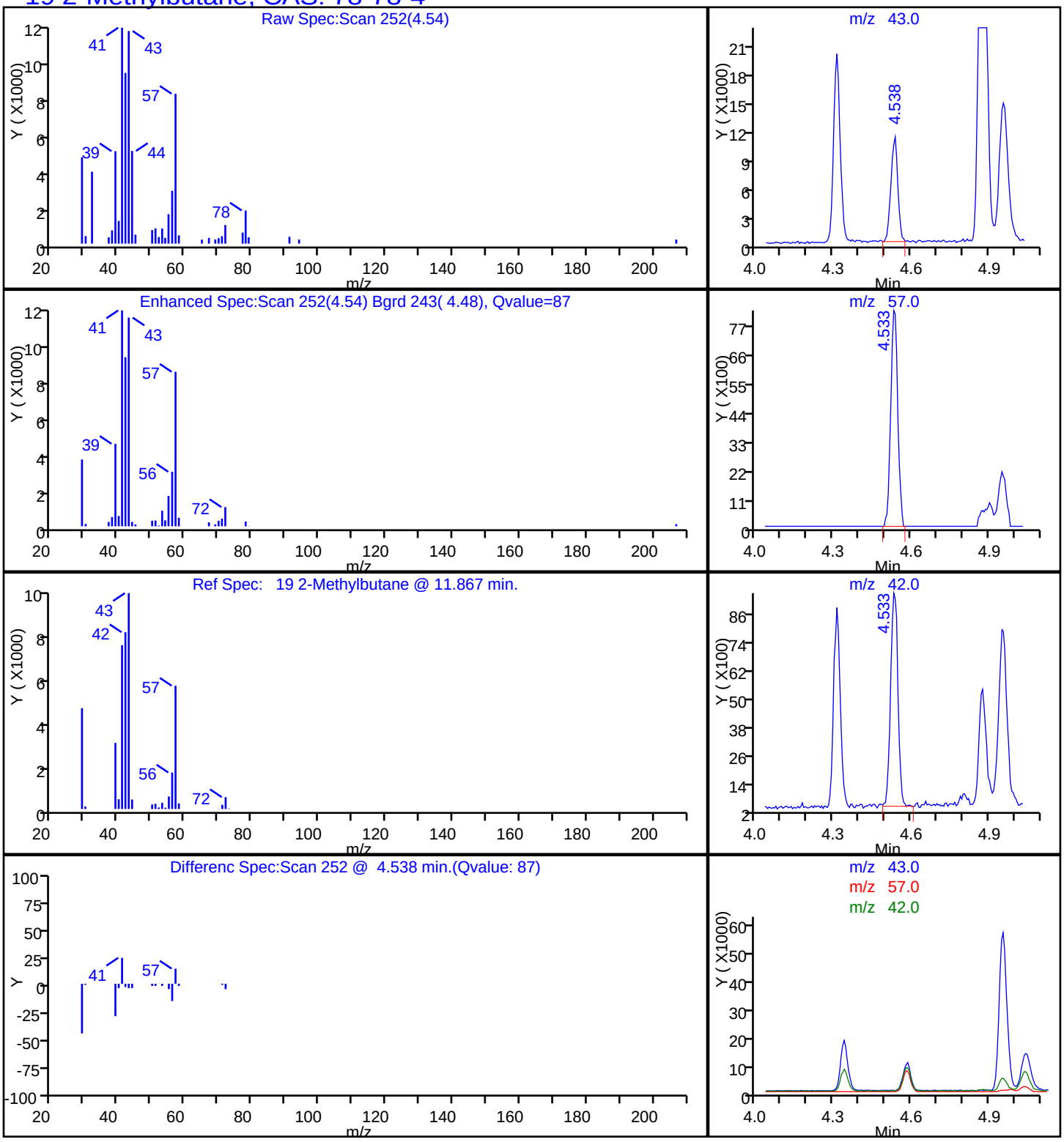
Report Date: 17-Mar-2014 16:33:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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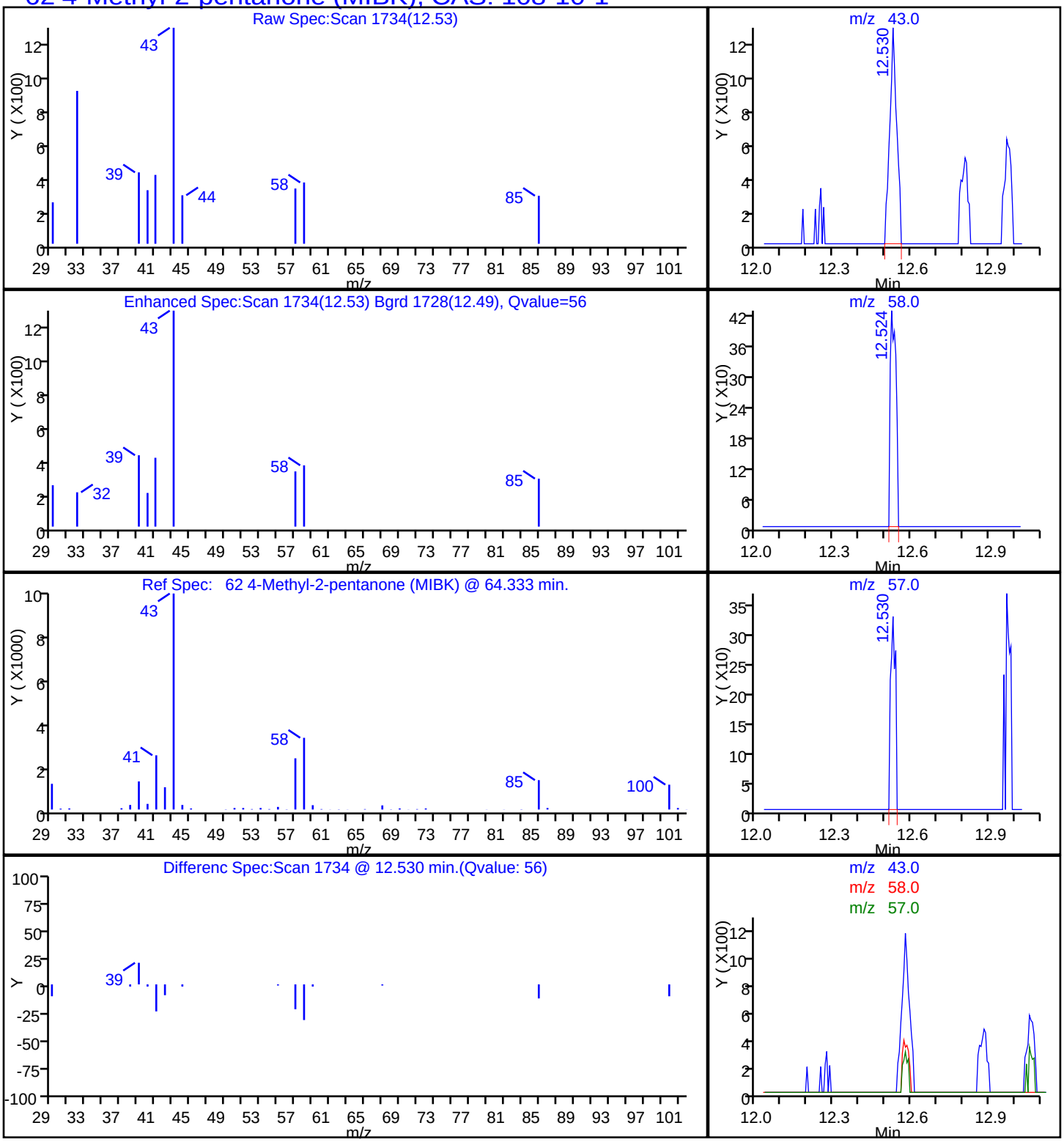
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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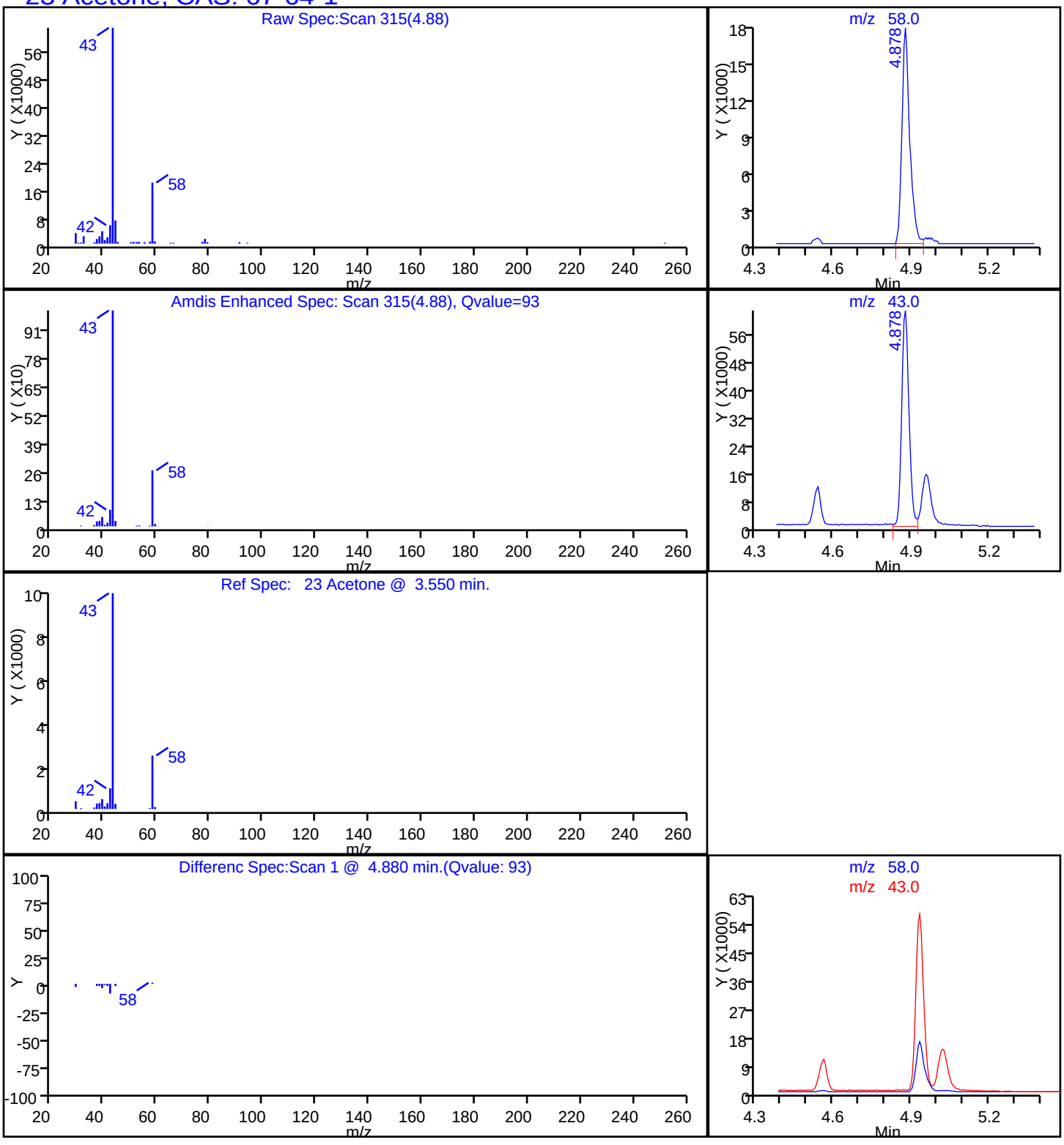
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



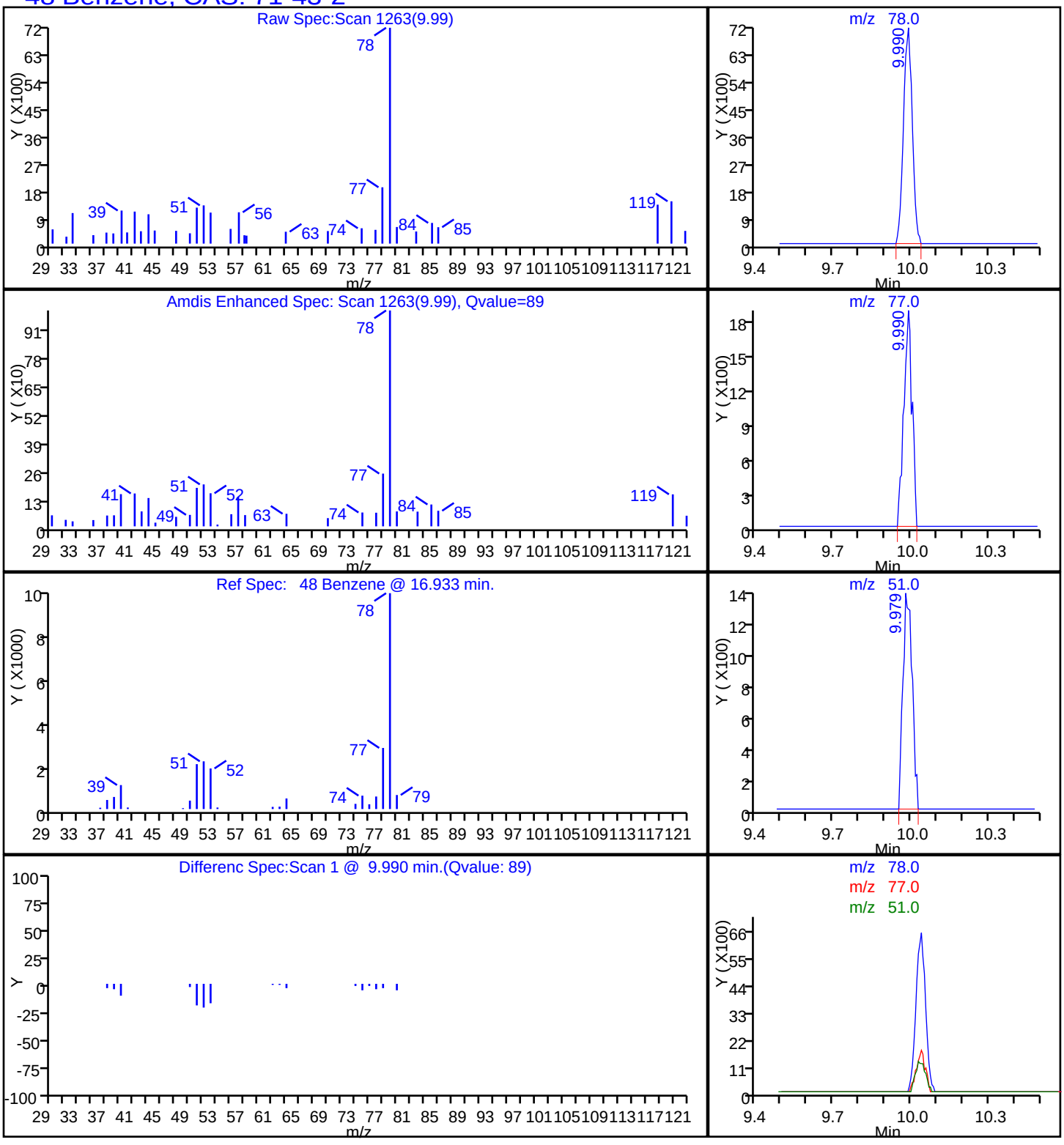
Report Date: 17-Mar-2014 16:33:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



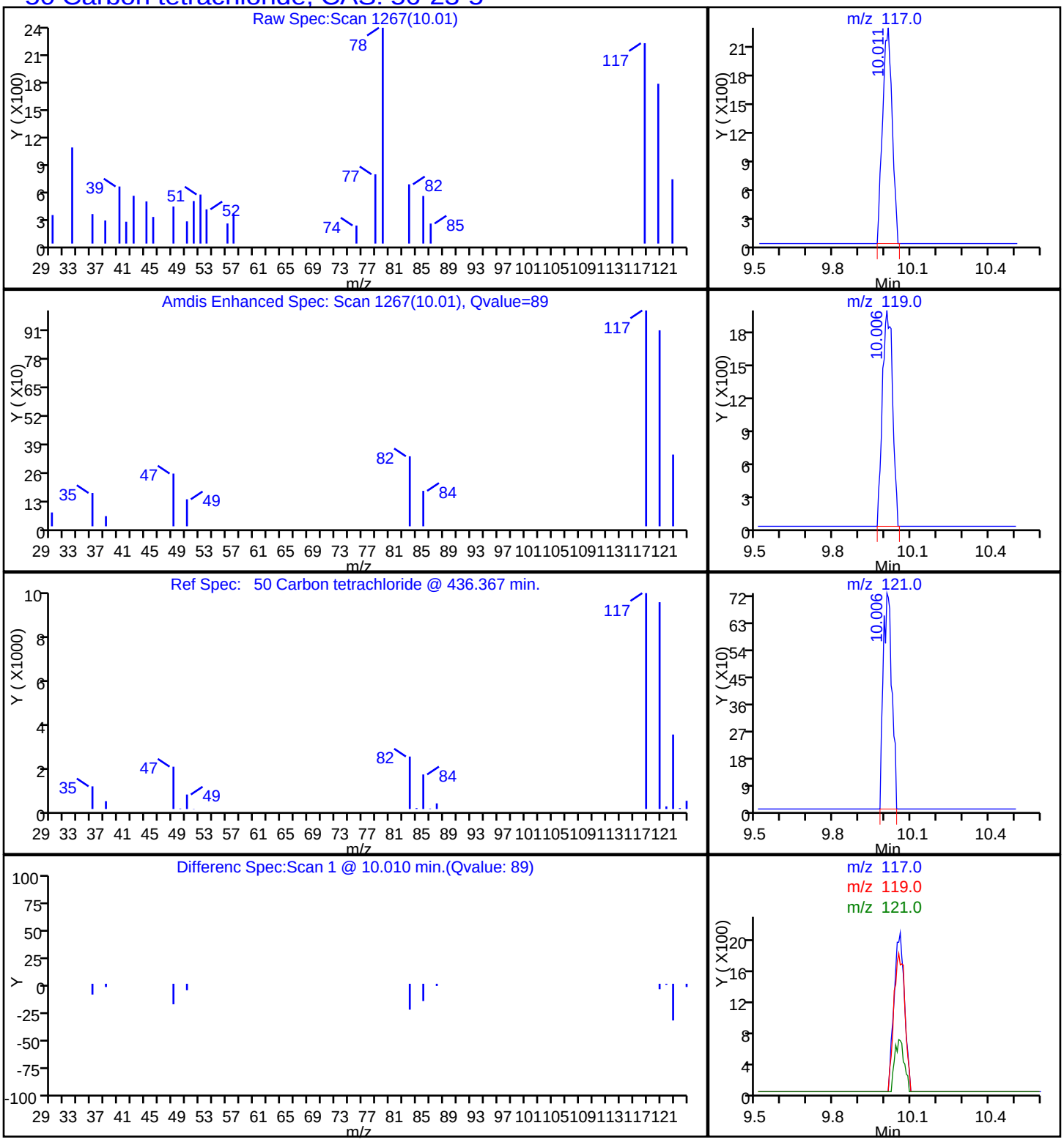
Report Date: 17-Mar-2014 16:33:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

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Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
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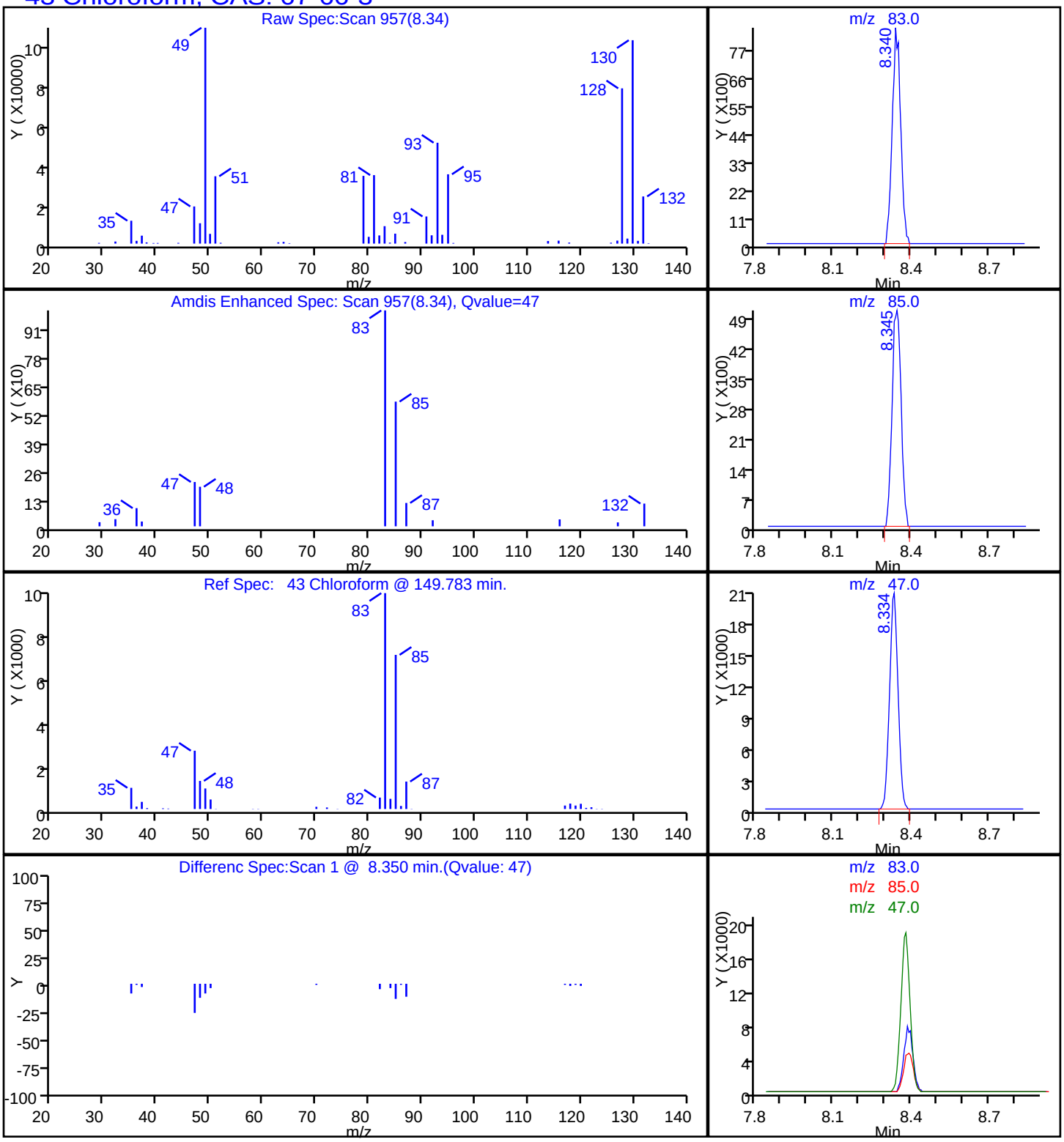
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



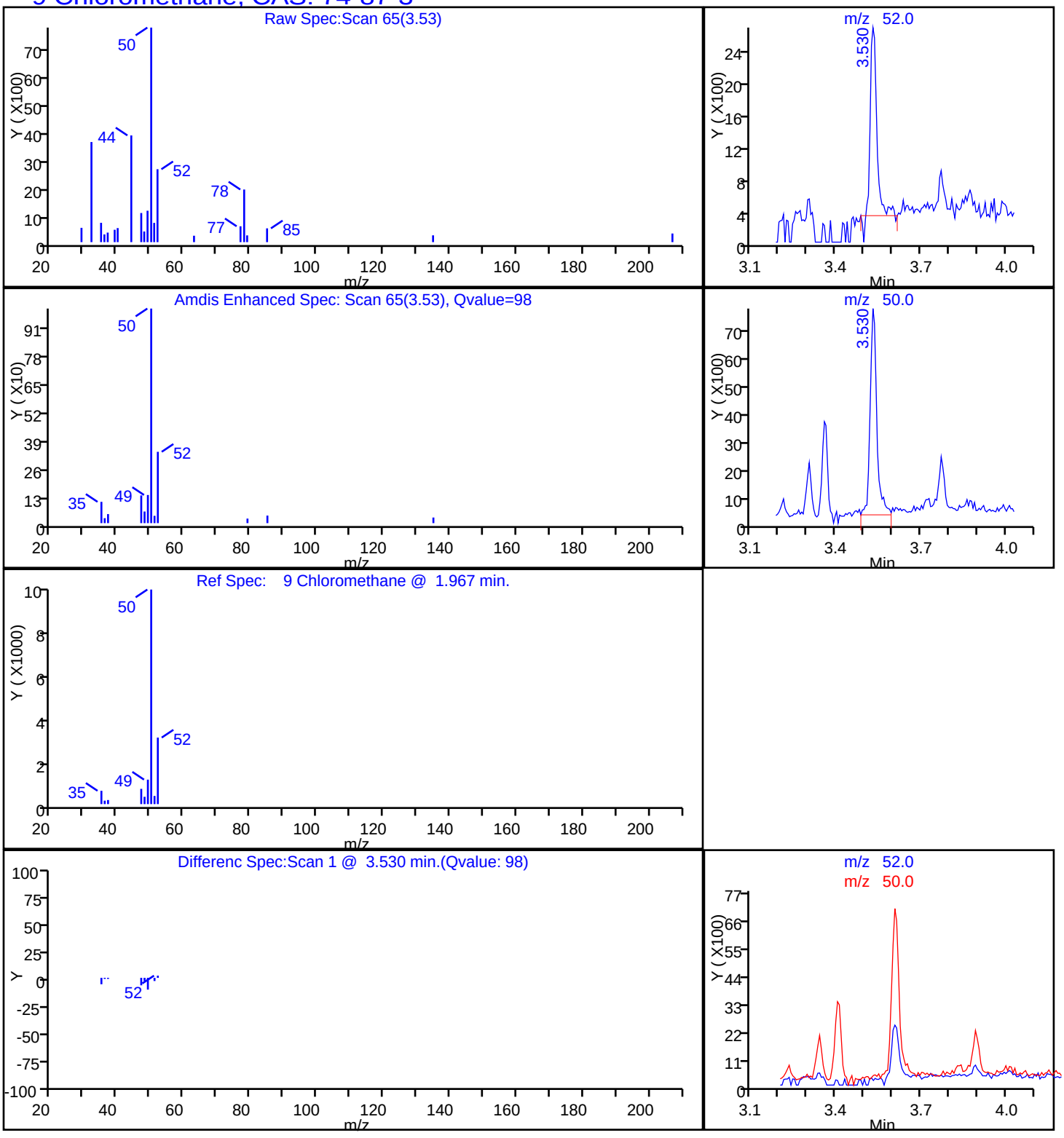
Report Date: 17-Mar-2014 16:33:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

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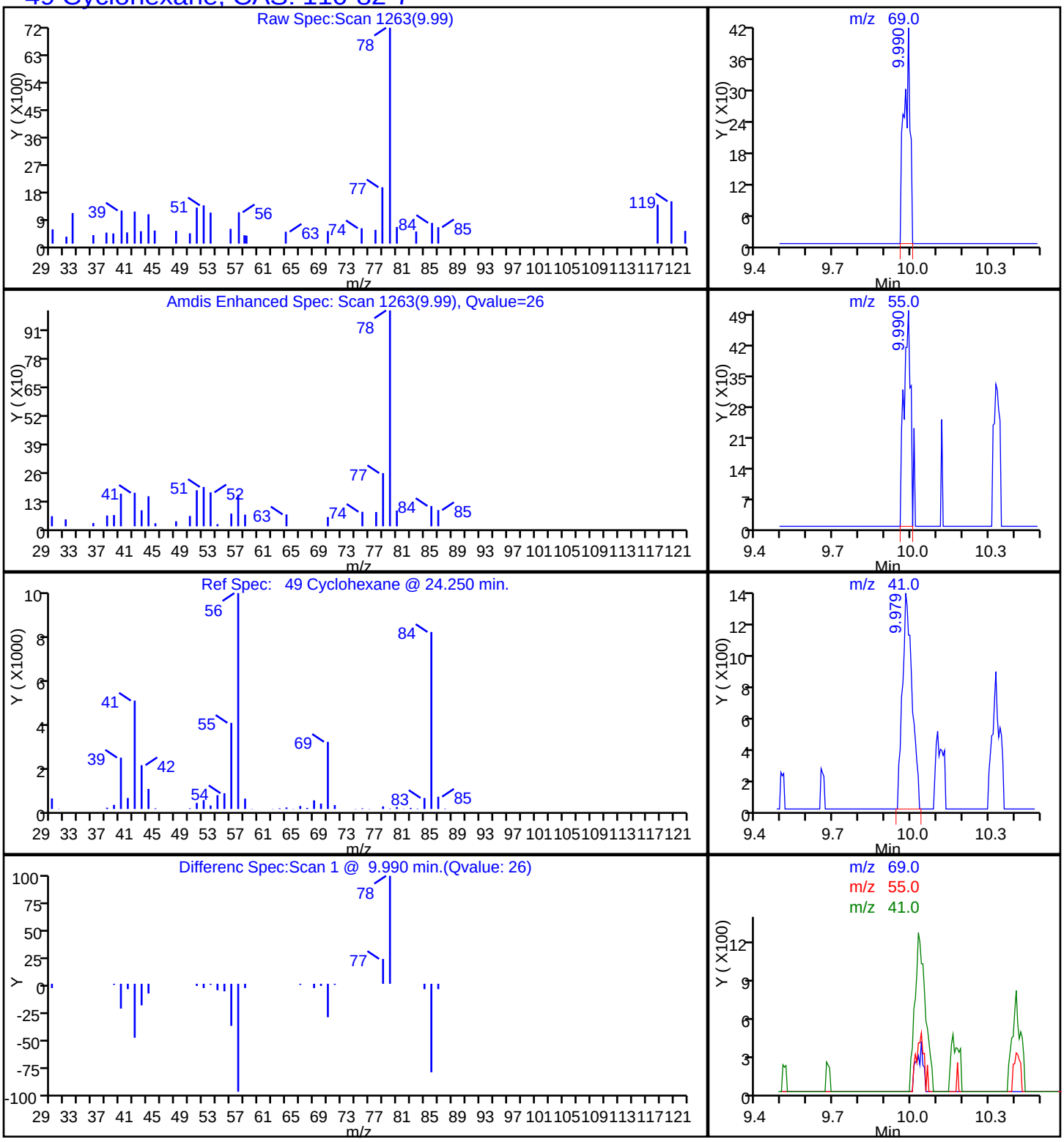
Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

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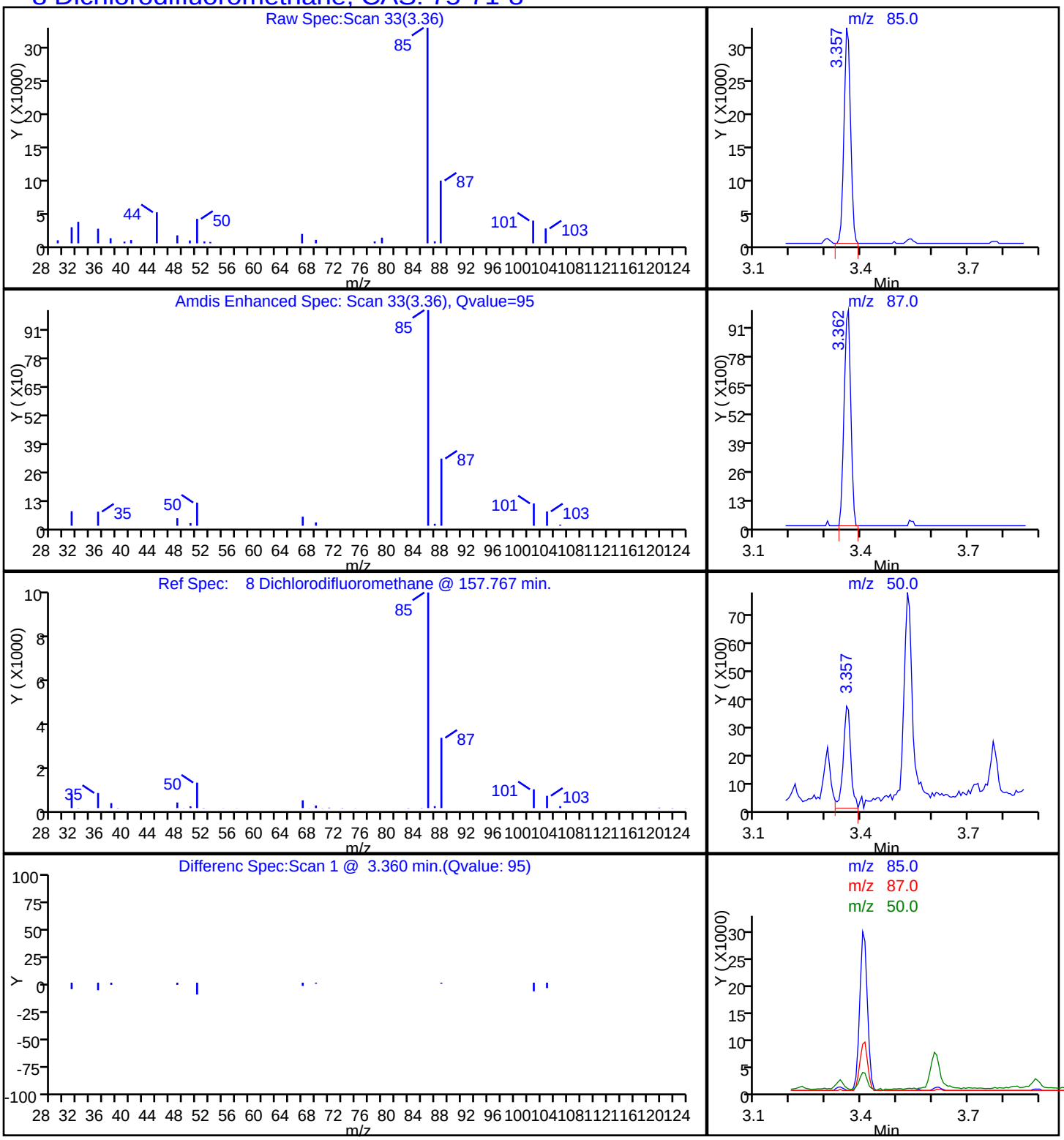
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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TestAmerica Knoxville

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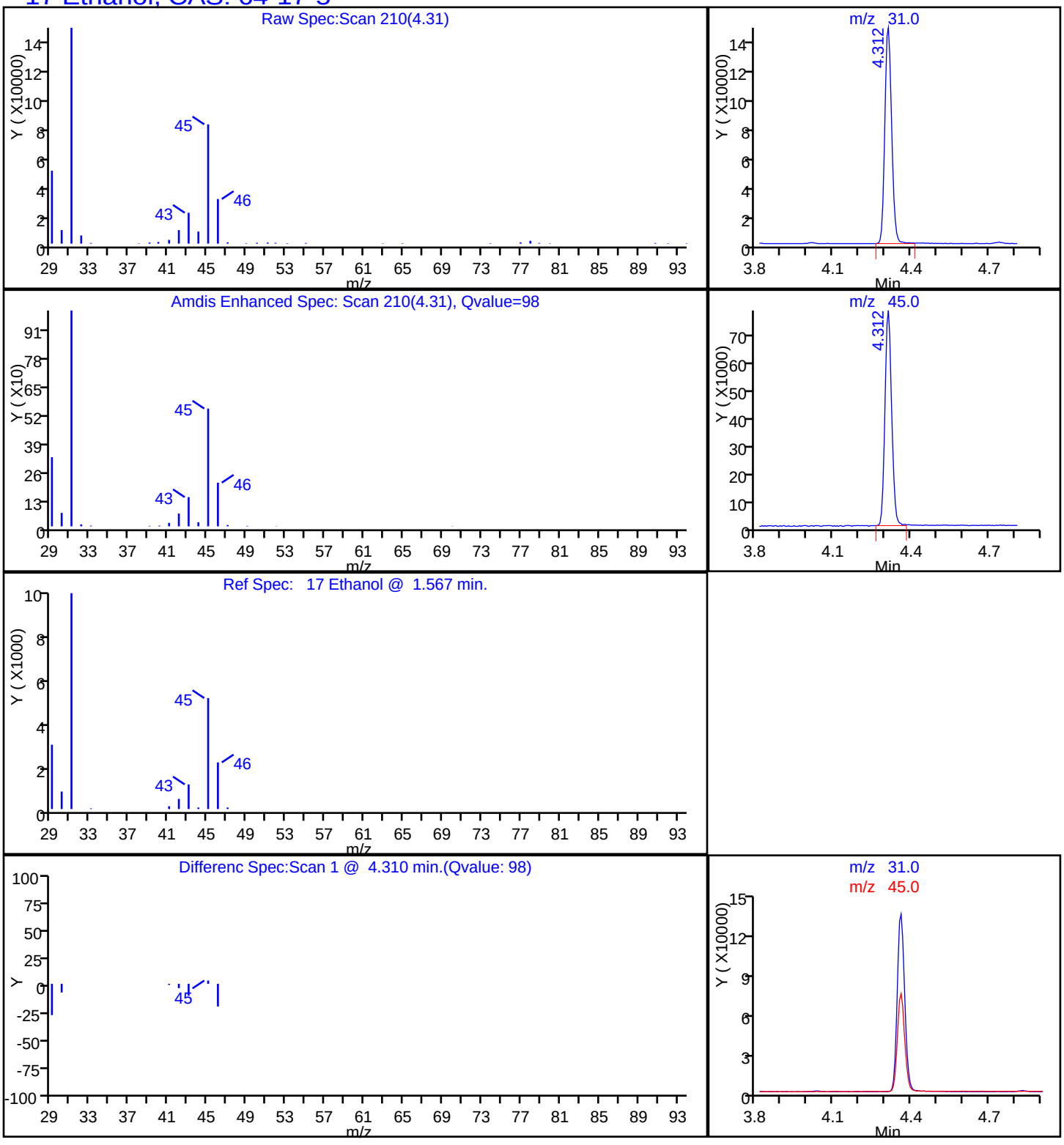
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



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TestAmerica Knoxville

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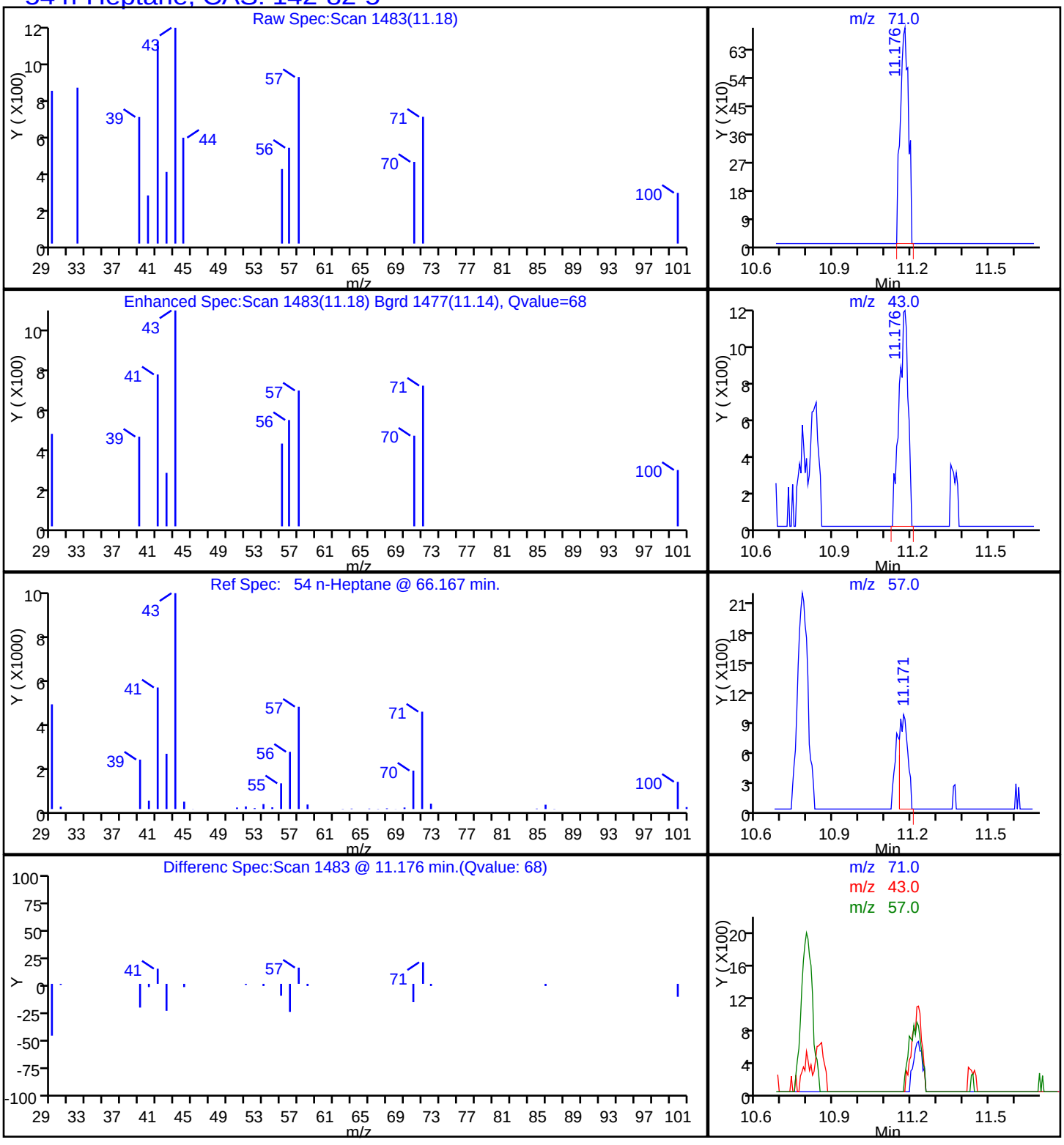
Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
Client ID:	PCV-IA1-B3		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
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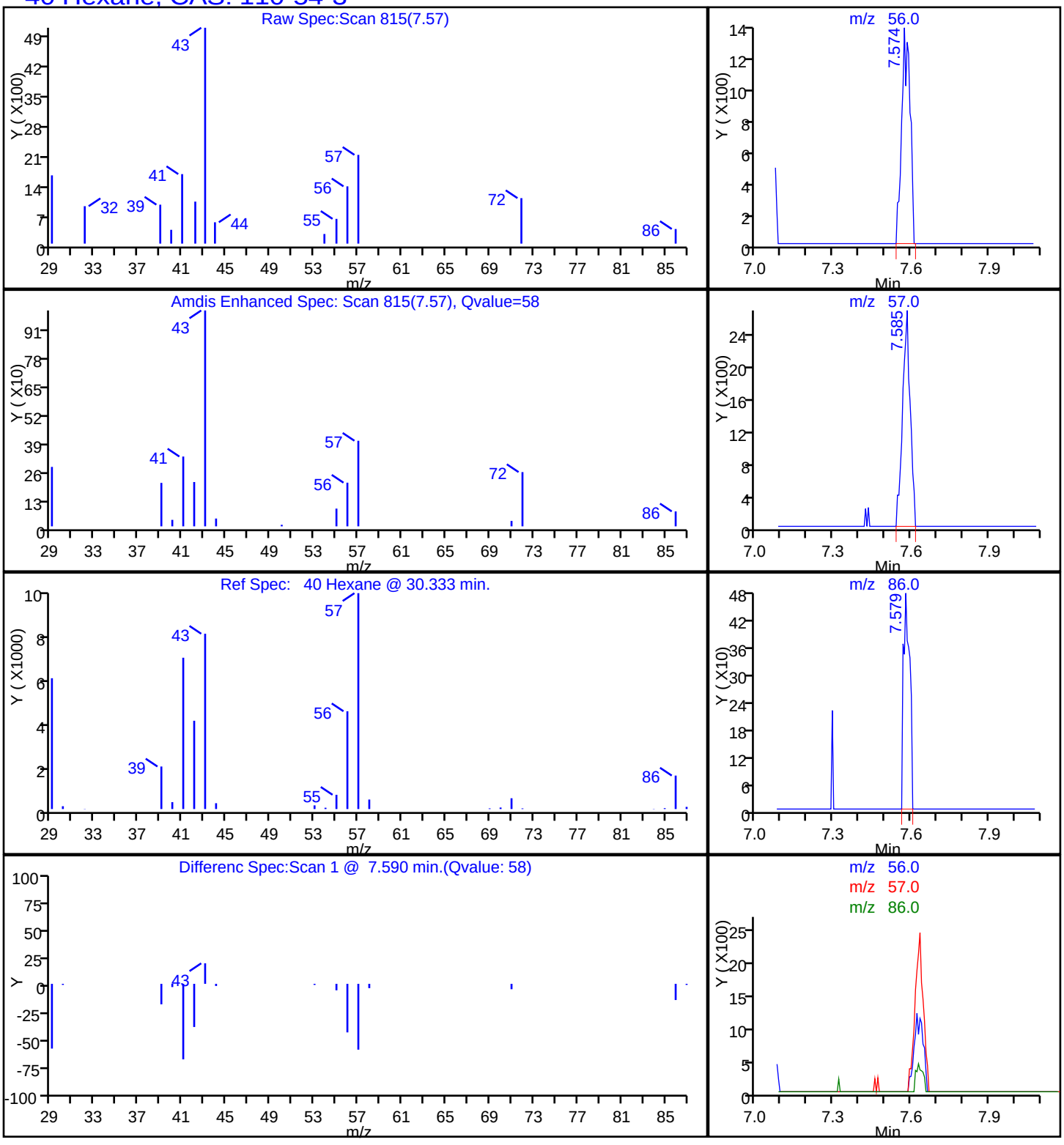
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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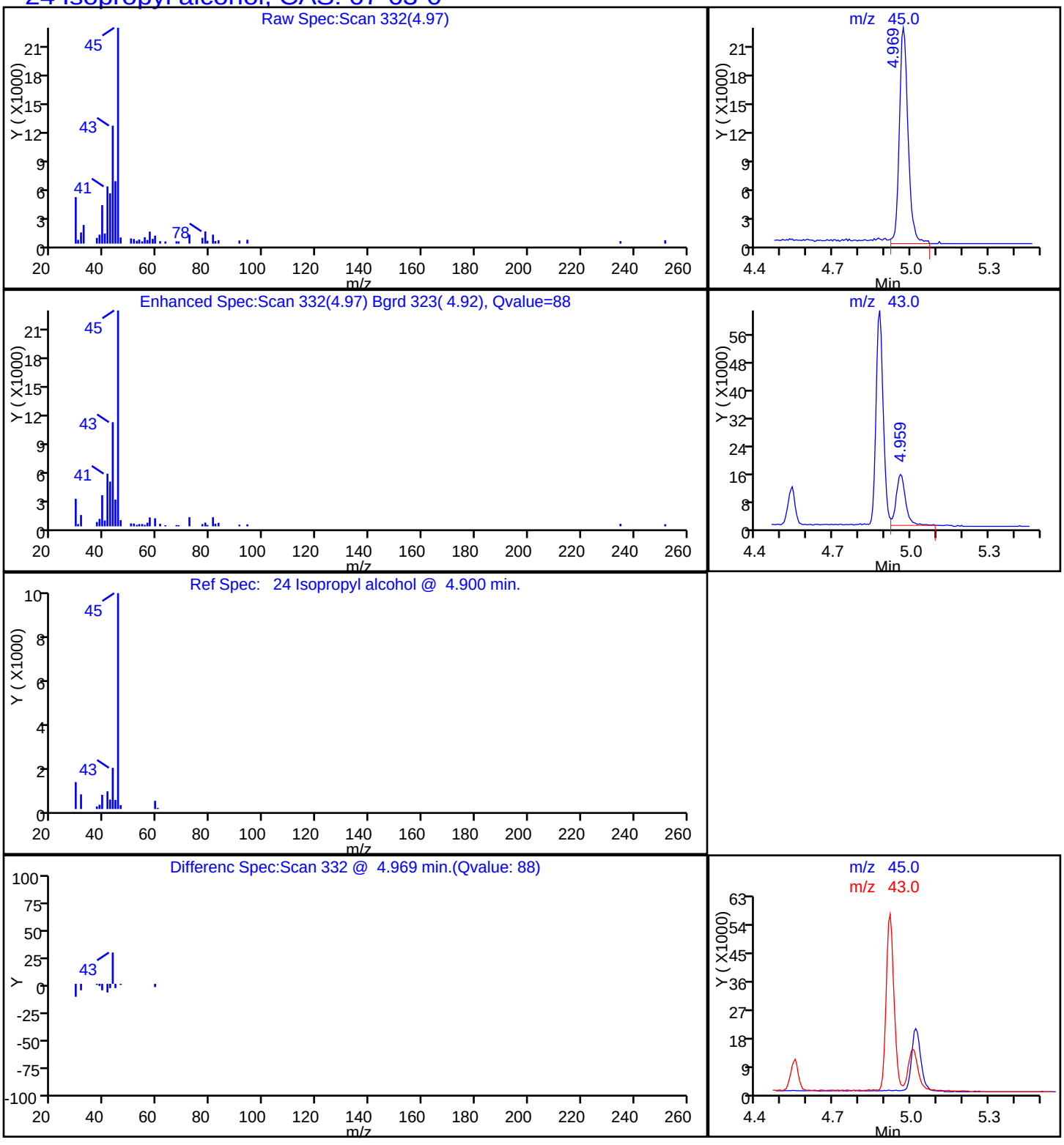
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
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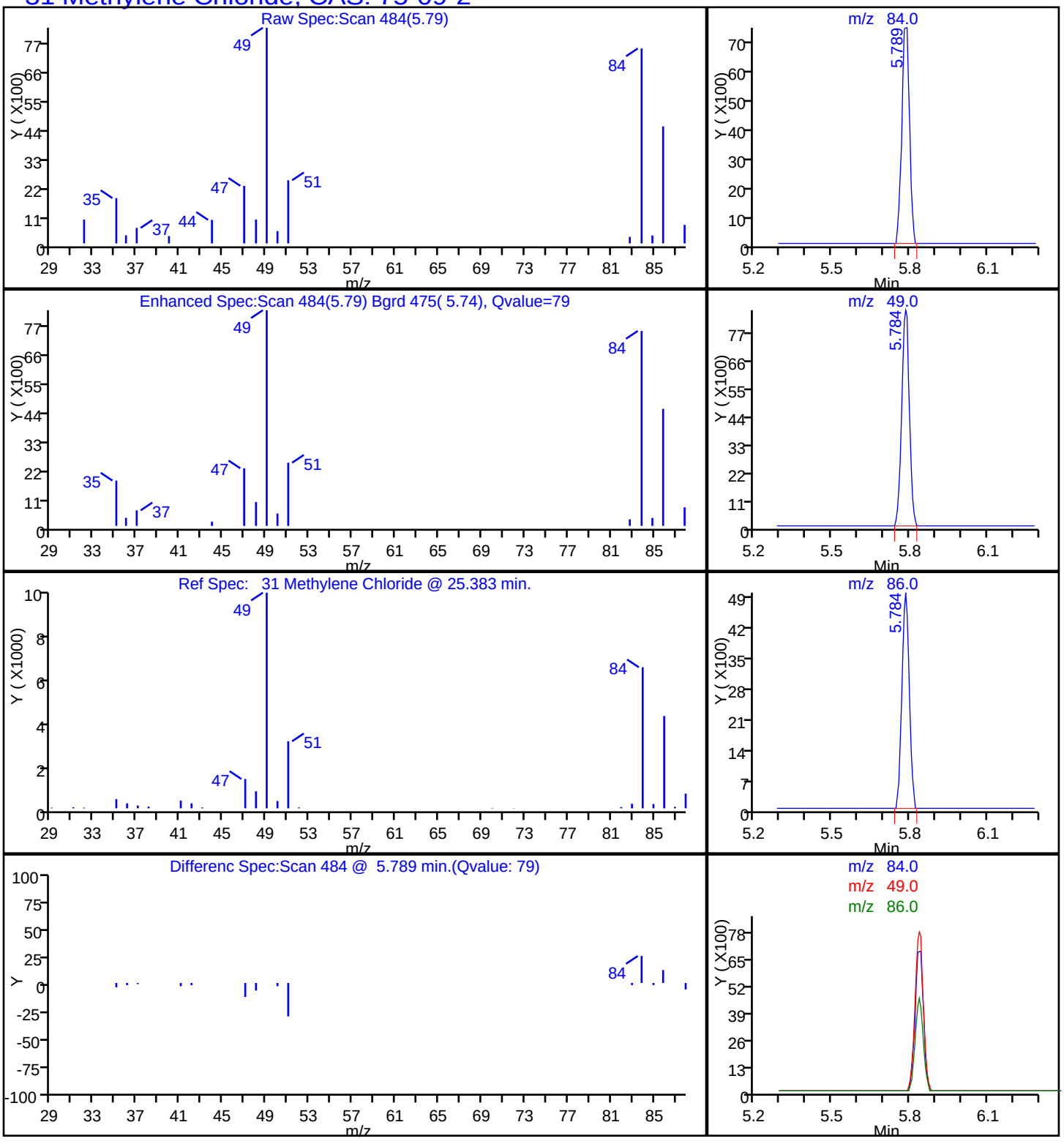
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
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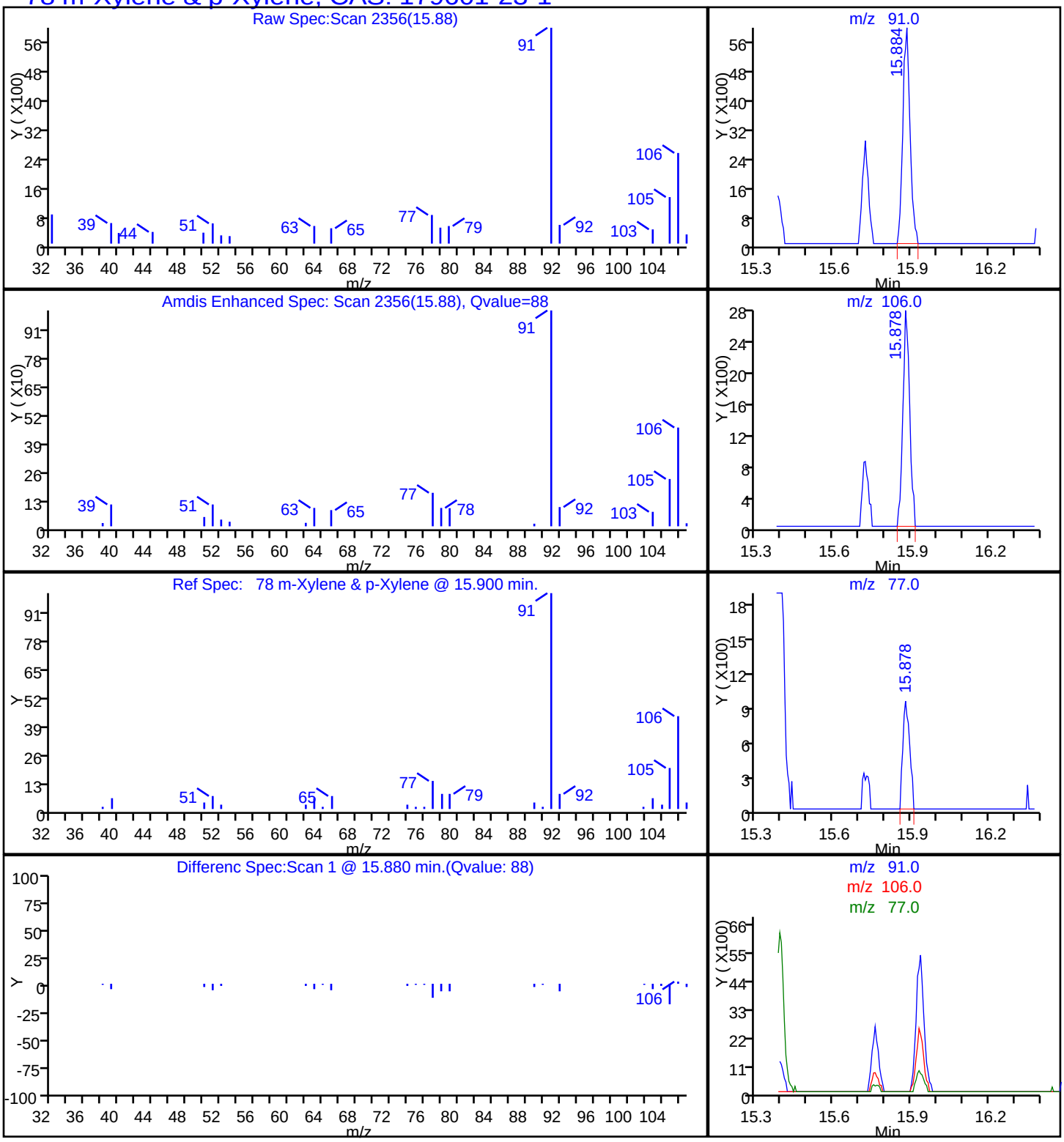
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 17-Mar-2014 16:33:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D

Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13
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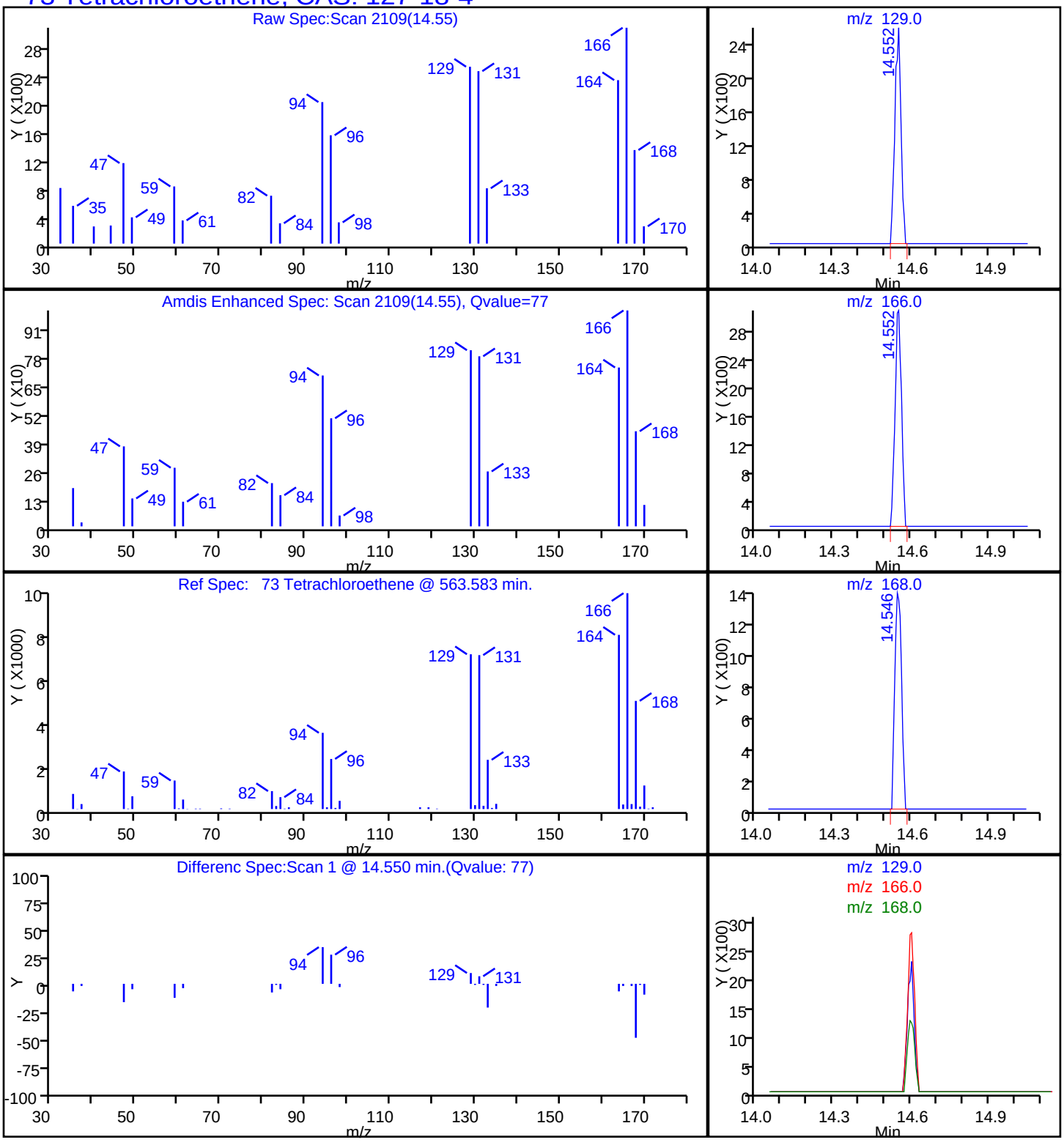
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P113.D				
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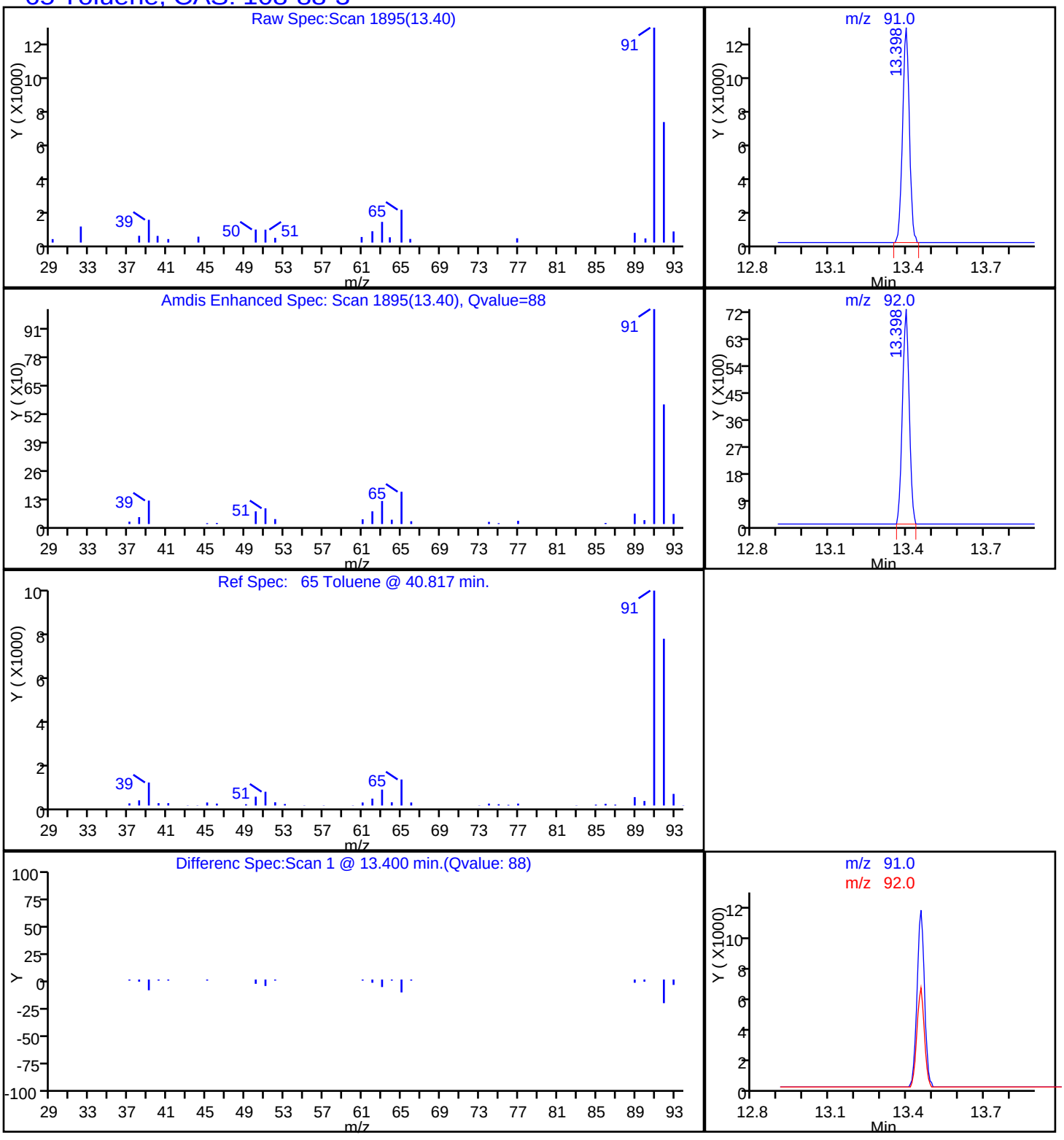
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



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TestAmerica Knoxville

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Injection Date:	15-Mar-2014 02:01:30	Instrument ID:	ME		
Lims ID:	140-1041-A-13	Lab Sample ID:	140-1041-13		
Client ID:	PCV-IA1-B3				
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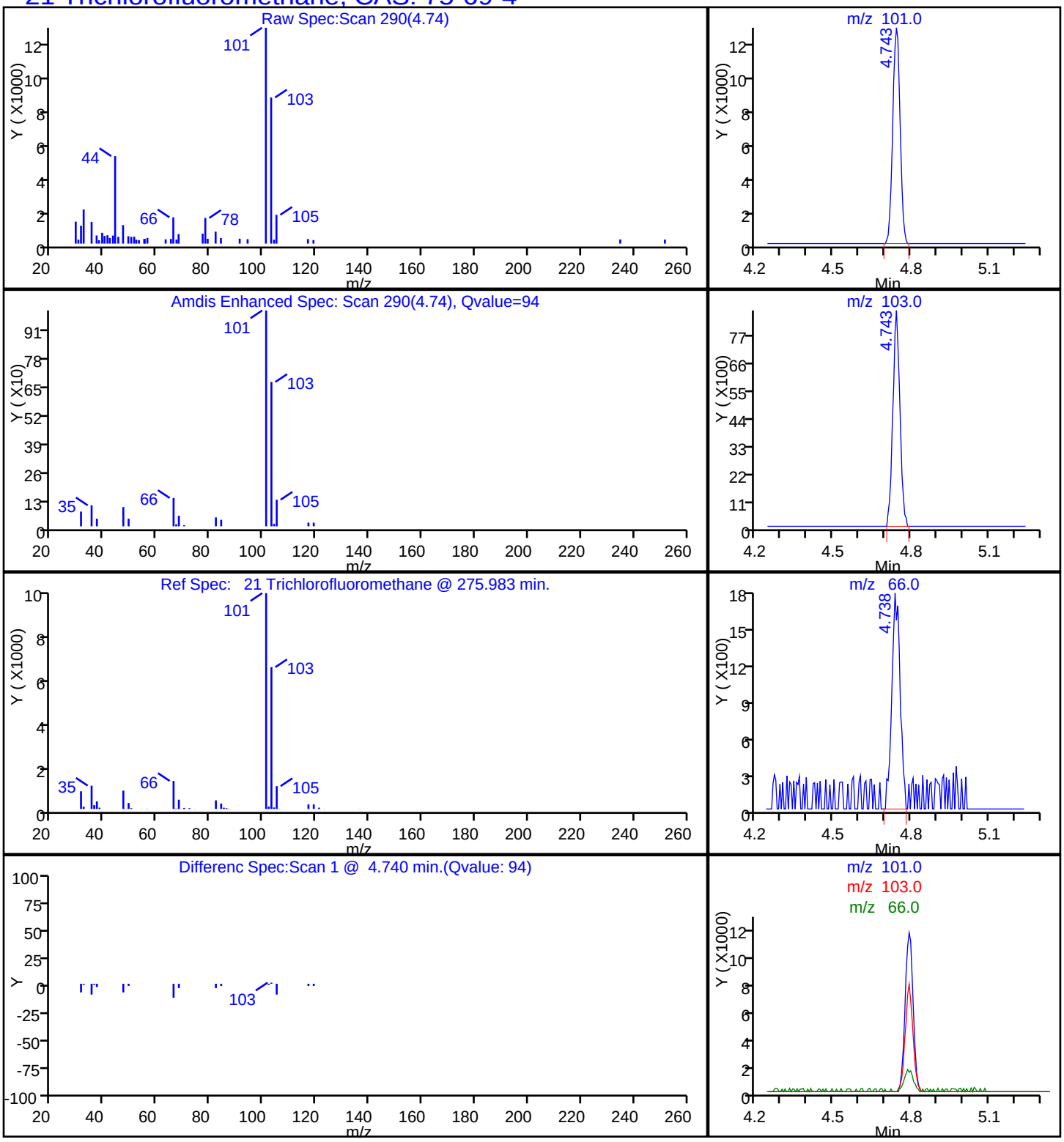
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.073	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.35		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.45	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.87		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	5.4		5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.98		0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	22		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.059	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.7	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.59		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	0.43	J	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.10	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.25		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.31		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.56	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	2.1		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	0.69		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	4.8		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	42		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.46	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.1	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.1		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.55	J	0.87	0.52
91-20-3	Naphthalene	128.17	2.3	J	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.1	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.68	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.94		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA2-B3 Lab Sample ID: 140-1041-14

Matrix: Air Lab File ID: EC14P114.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 02:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D
Lims ID: 140-1041-A-14 Lab Sample ID: 140-1041-14
Client ID: PCV-IA2-B3
Sample Type: Client
Inject. Date: 15-Mar-2014 02:46:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-14
Misc. Info.: E031414,TO155,,140-0000522-019
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:51:31 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:34:23

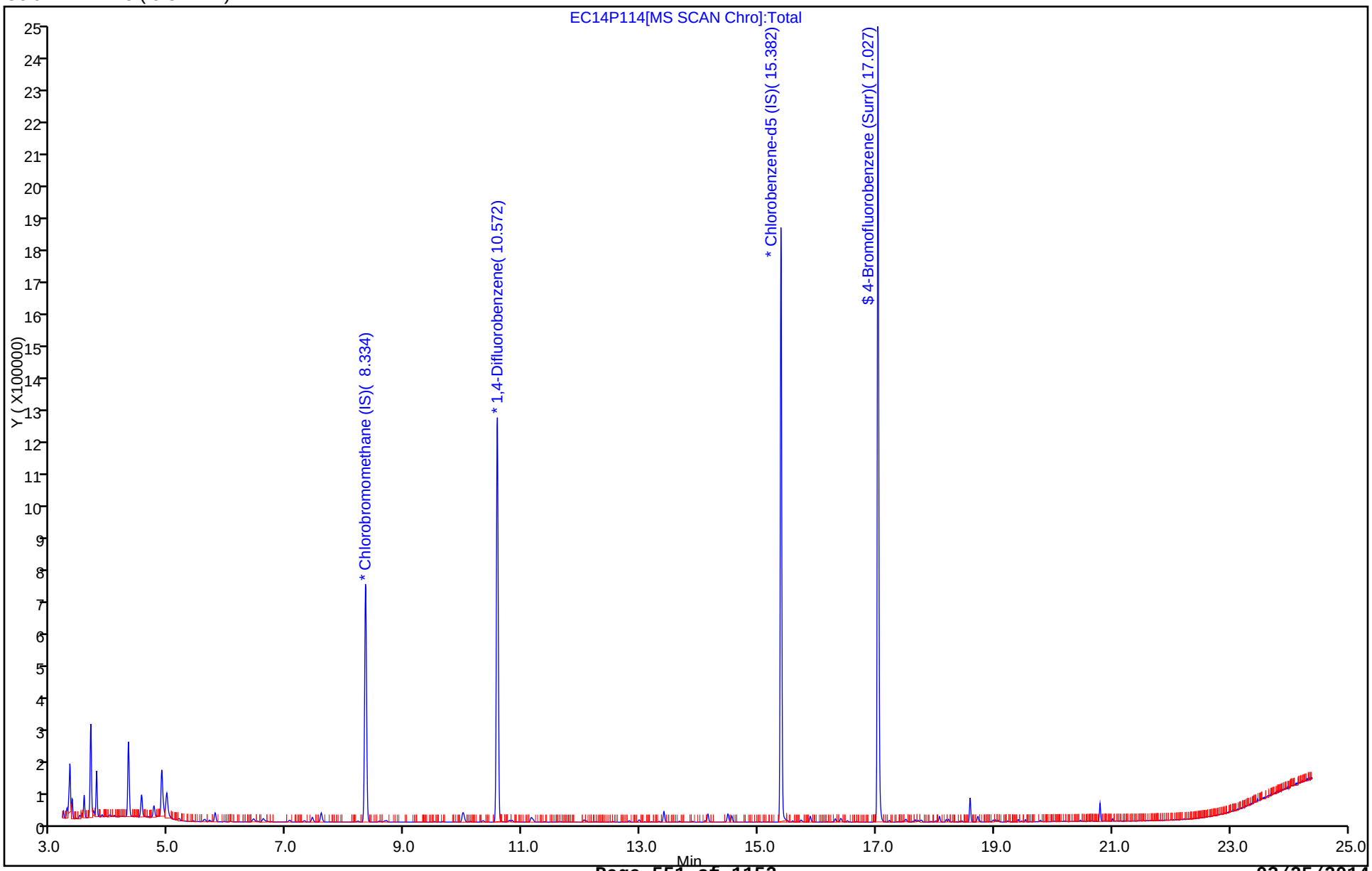
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	82	192706	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	954916	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	868840	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	816954	4.29	
	7 Propene	41	3.320	3.314	0.006	73	24201	0.4992	
	8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	42361	0.1987	
	9 Chloromethane	52	3.530	3.530	0.0	95	4094	0.2406	
	17 Ethanol	31	4.312	4.317	-0.005	98	170860	8.86	
	19 2-Methylbutane	43	4.538	4.538	0.0	84	23473	0.3478	
	21 Trichlorofluoromethane	101	4.749	4.748	0.001	94	26752	0.1251	
	23 Acetone	58	4.878	4.883	-0.005	94	63074	2.16	
	24 Isopropyl alcohol	45	4.970	4.975	-0.005	85	49868	0.6636	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	69	3882	0.0293	
	31 Methylene Chloride	84	5.784	5.795	-0.011	80	13067	0.2373	
	39 2-Butanone (MEK)	72	7.590	7.585	0.005	93	5672	0.1798	
	40 Hexane	56	7.585	7.590	-0.005	52	2693	0.0525	
	43 Chloroform	83	8.345	8.356	-0.011	86	64946	0.3934	
	48 Benzene	78	9.985	9.995	-0.010	92	16707	0.0869	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	86	5947	0.0322	
	53 Isooctane	57	10.788	10.788	0.0	54	5540	0.0187	
	54 n-Heptane	71	11.182	11.182	0.0	27	1708	0.0235	
	65 Toluene	91	13.398	13.403	-0.005	87	23253	0.0999	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	80	3978	0.0401	
	78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	90	11879	0.0506	
	97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	88	23990	0.1407	
	112 Naphthalene	128	20.796	20.796	0.0	97	33398	0.1730	

Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D				
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14	Worklist Smp#:	19
Client ID:	PCV-IA2-B3				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

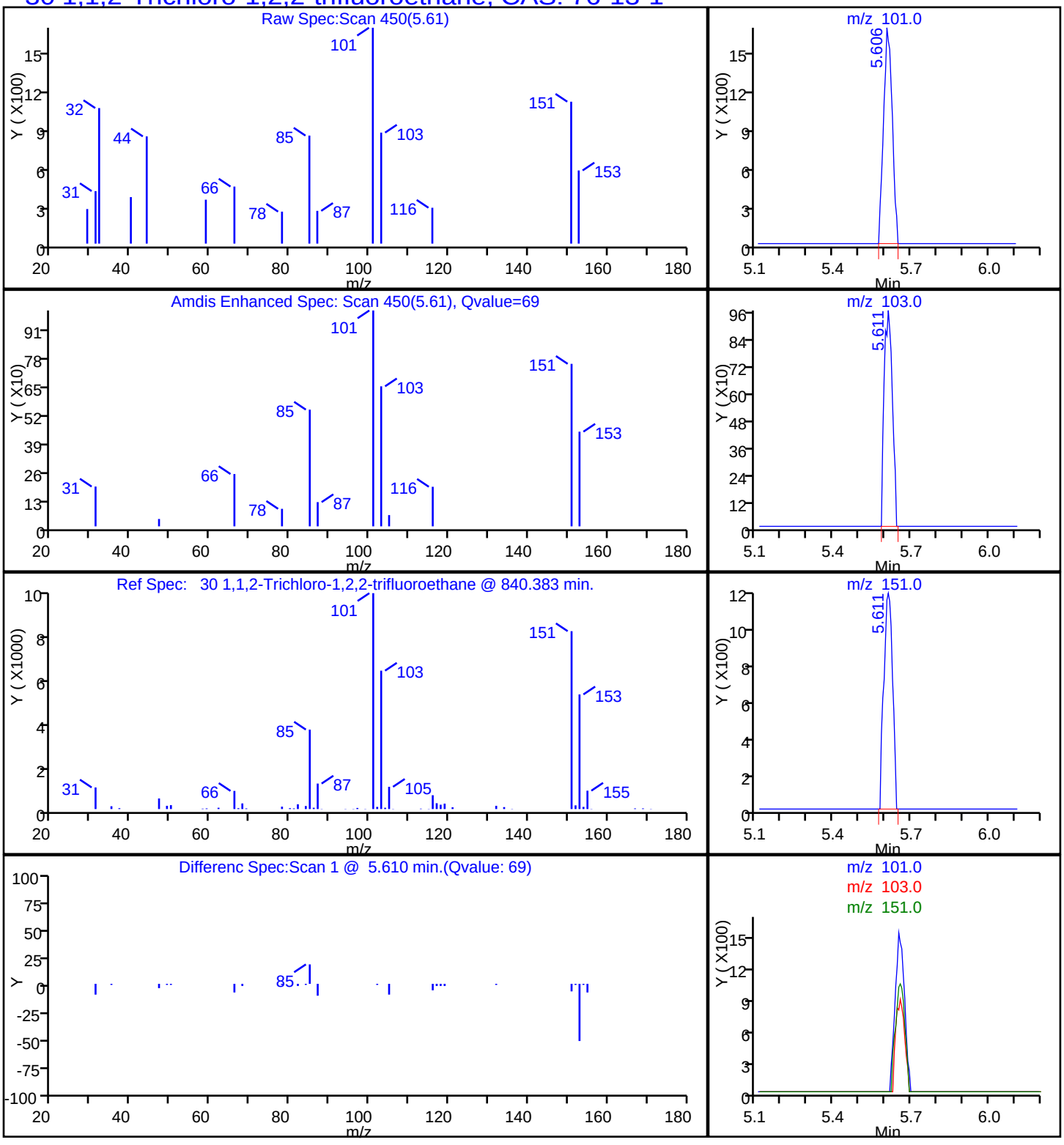
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D				
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



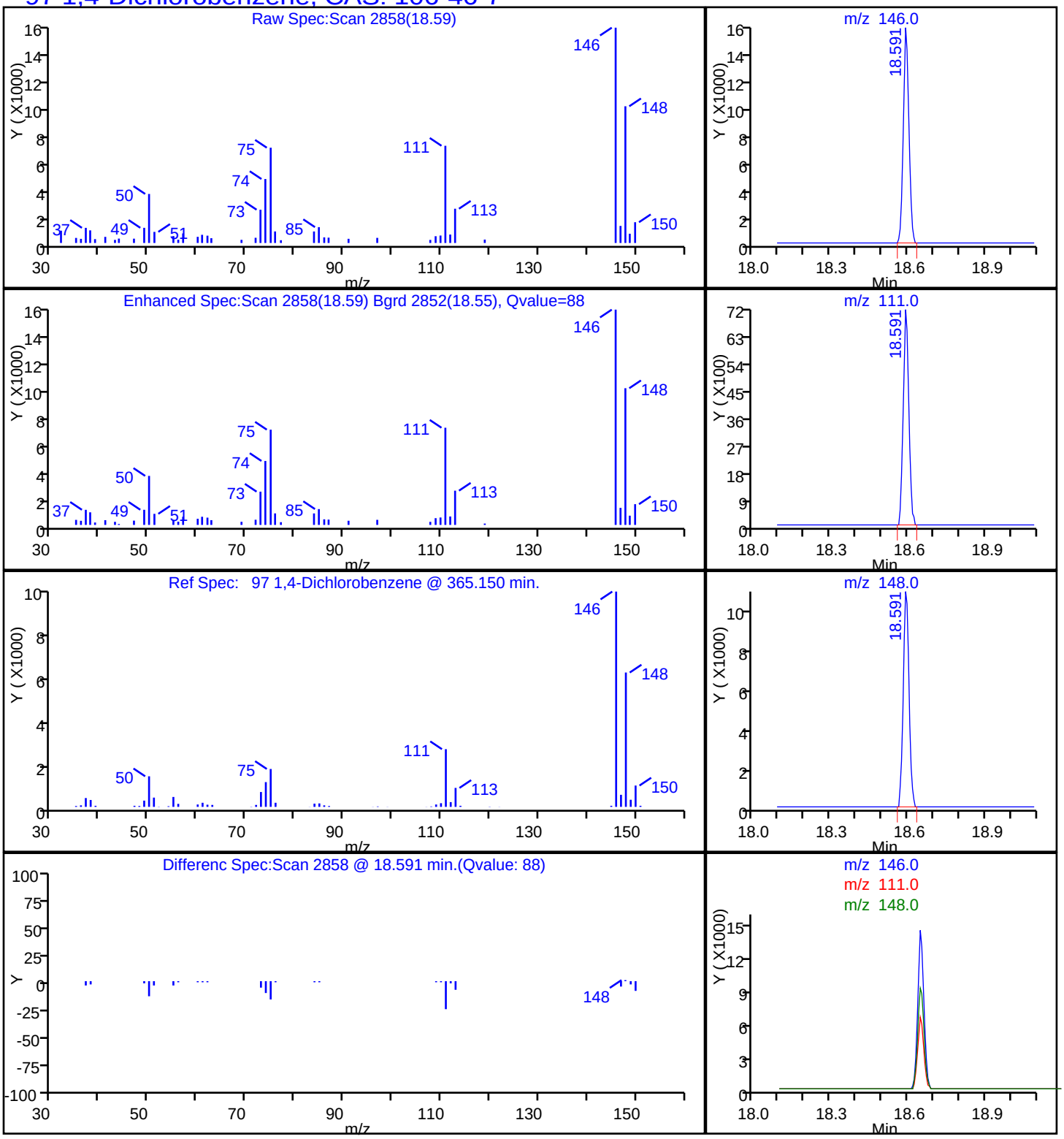
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

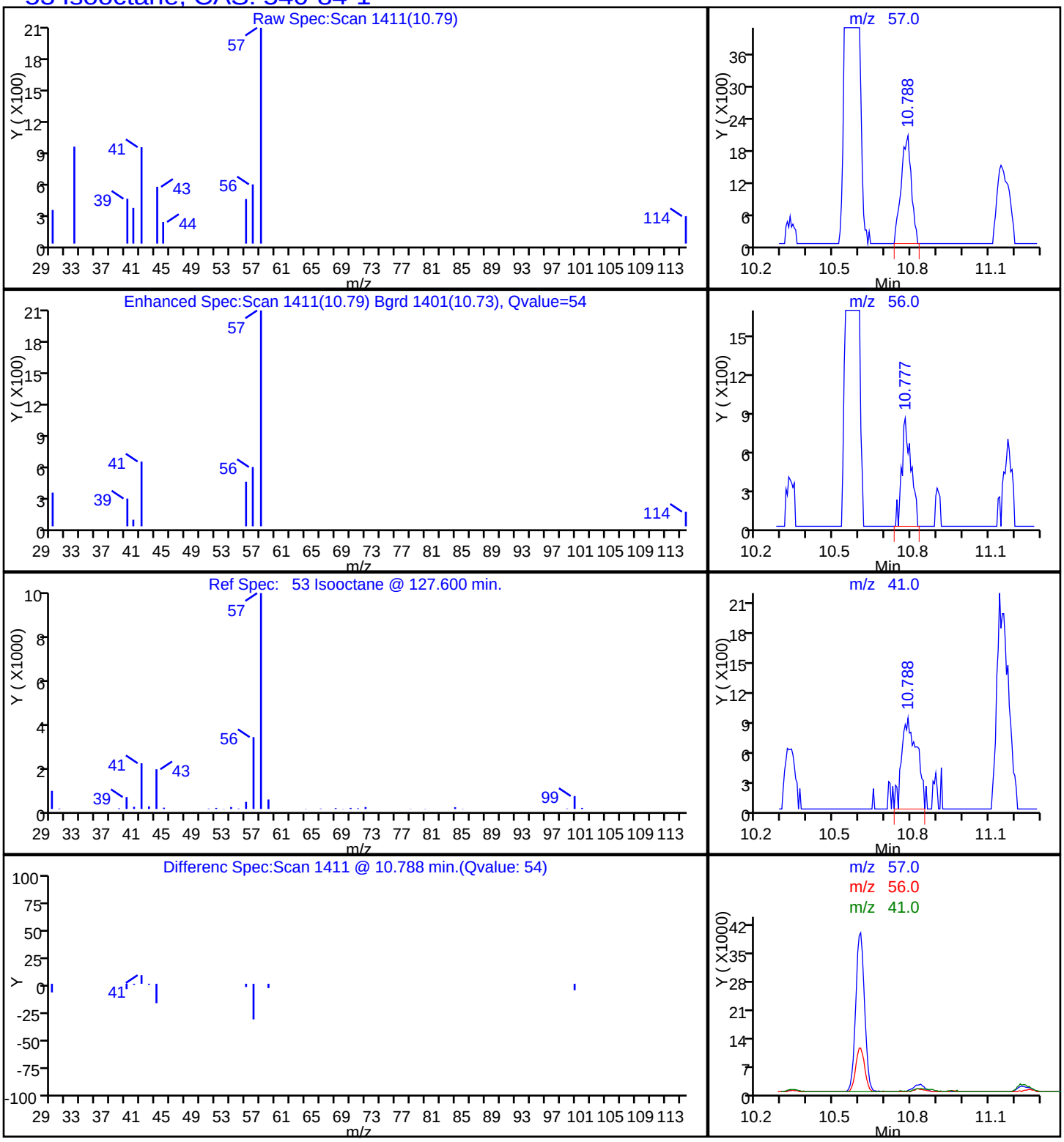


Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D				
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



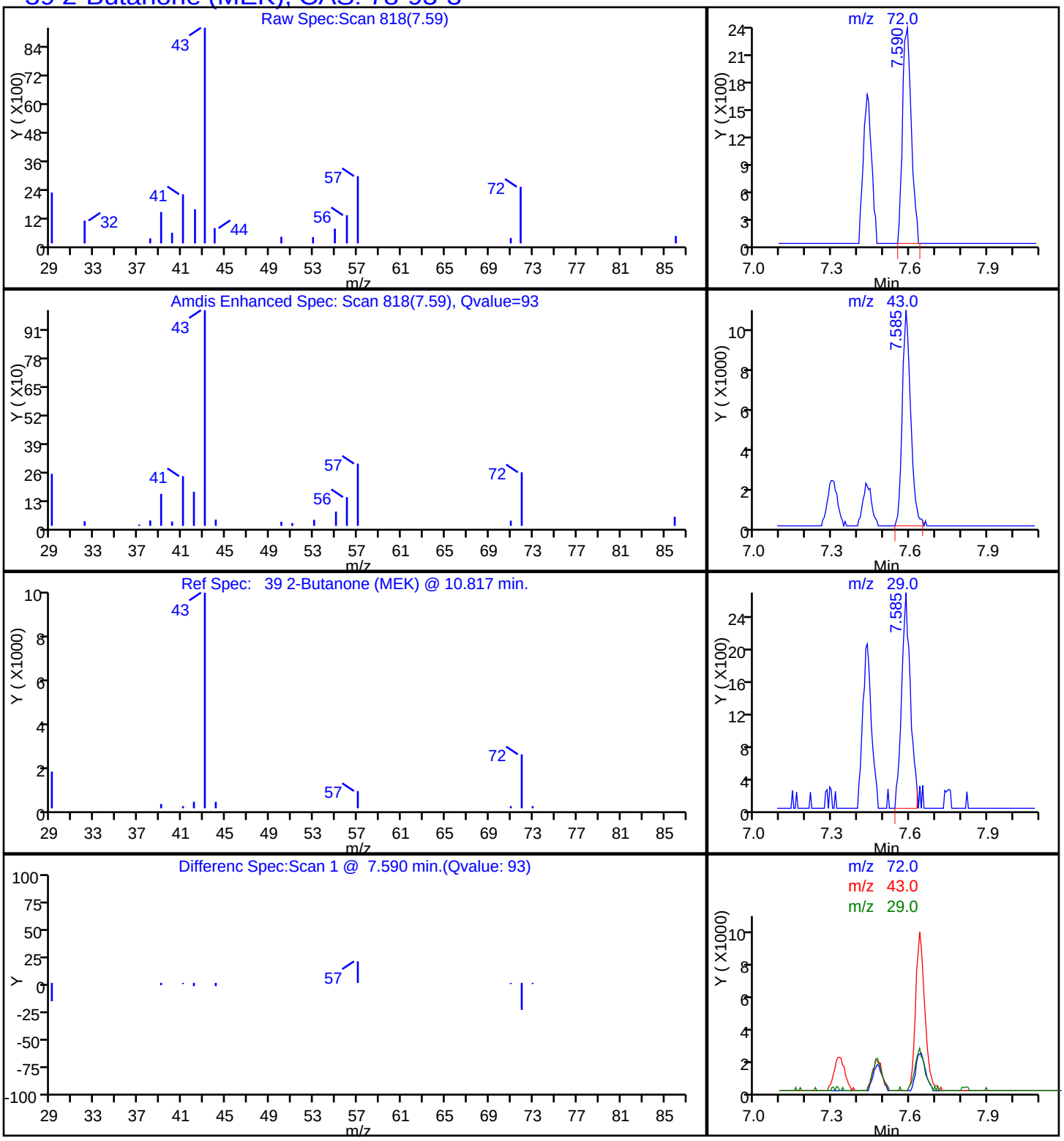
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



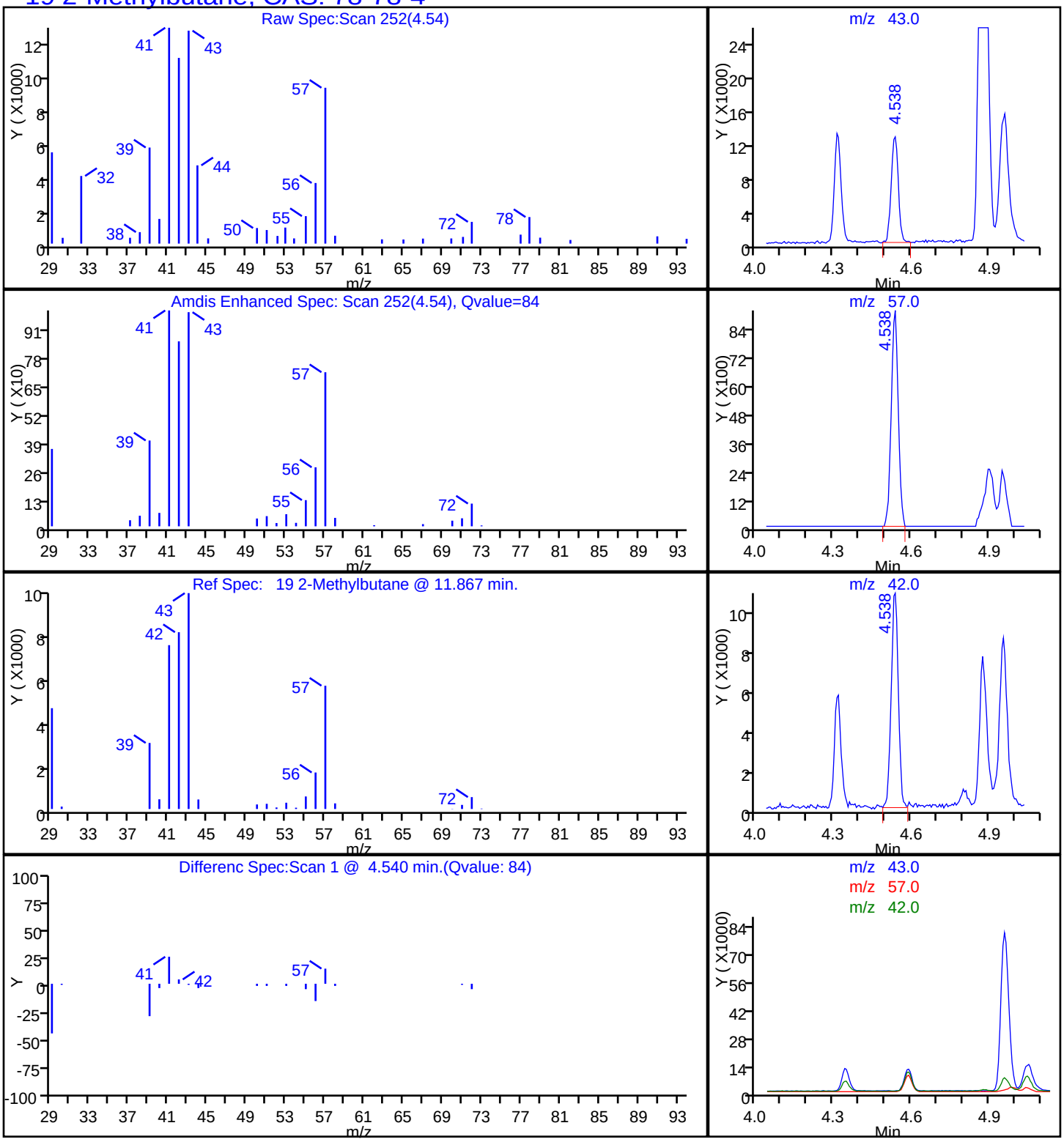
Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



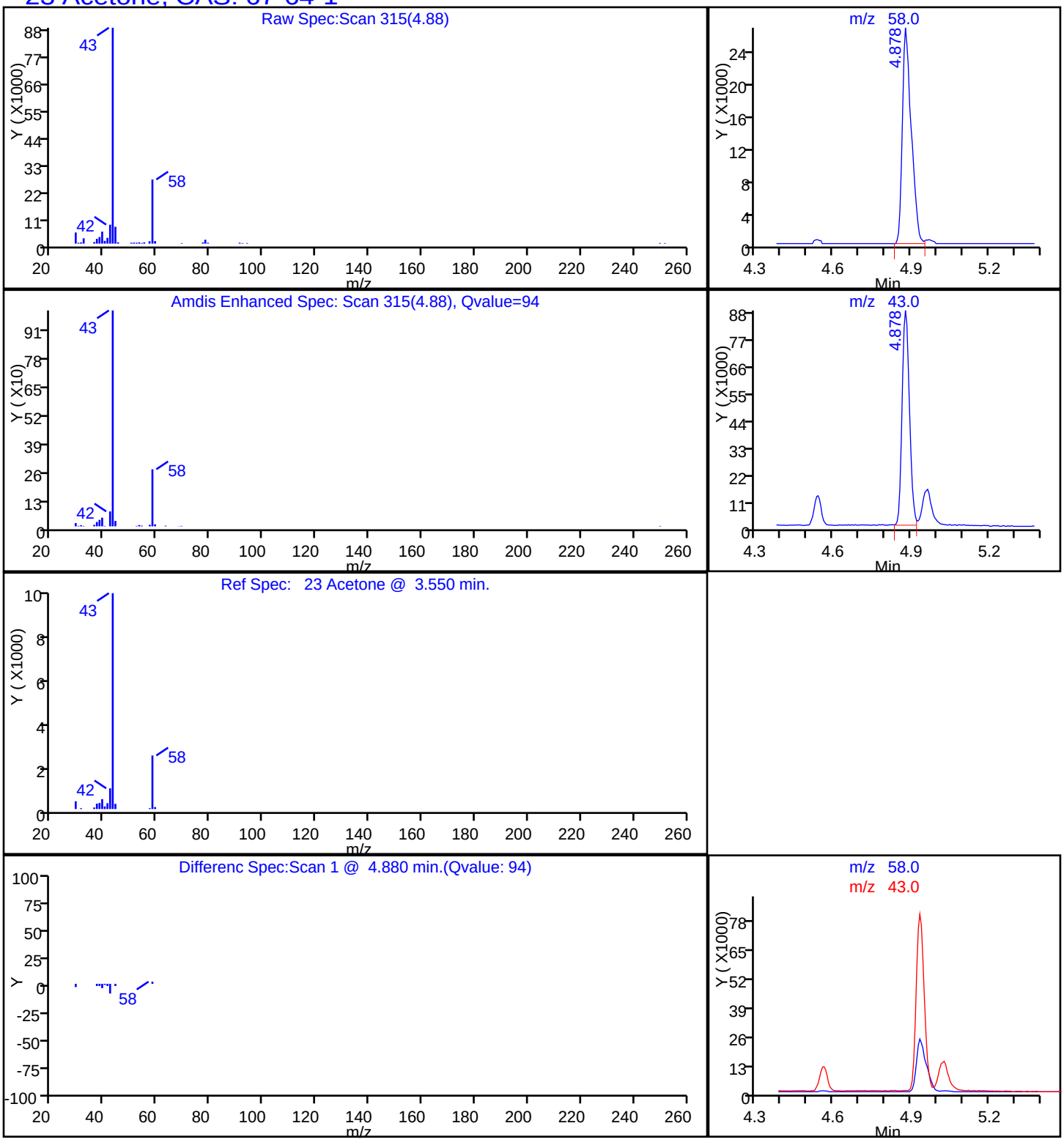
Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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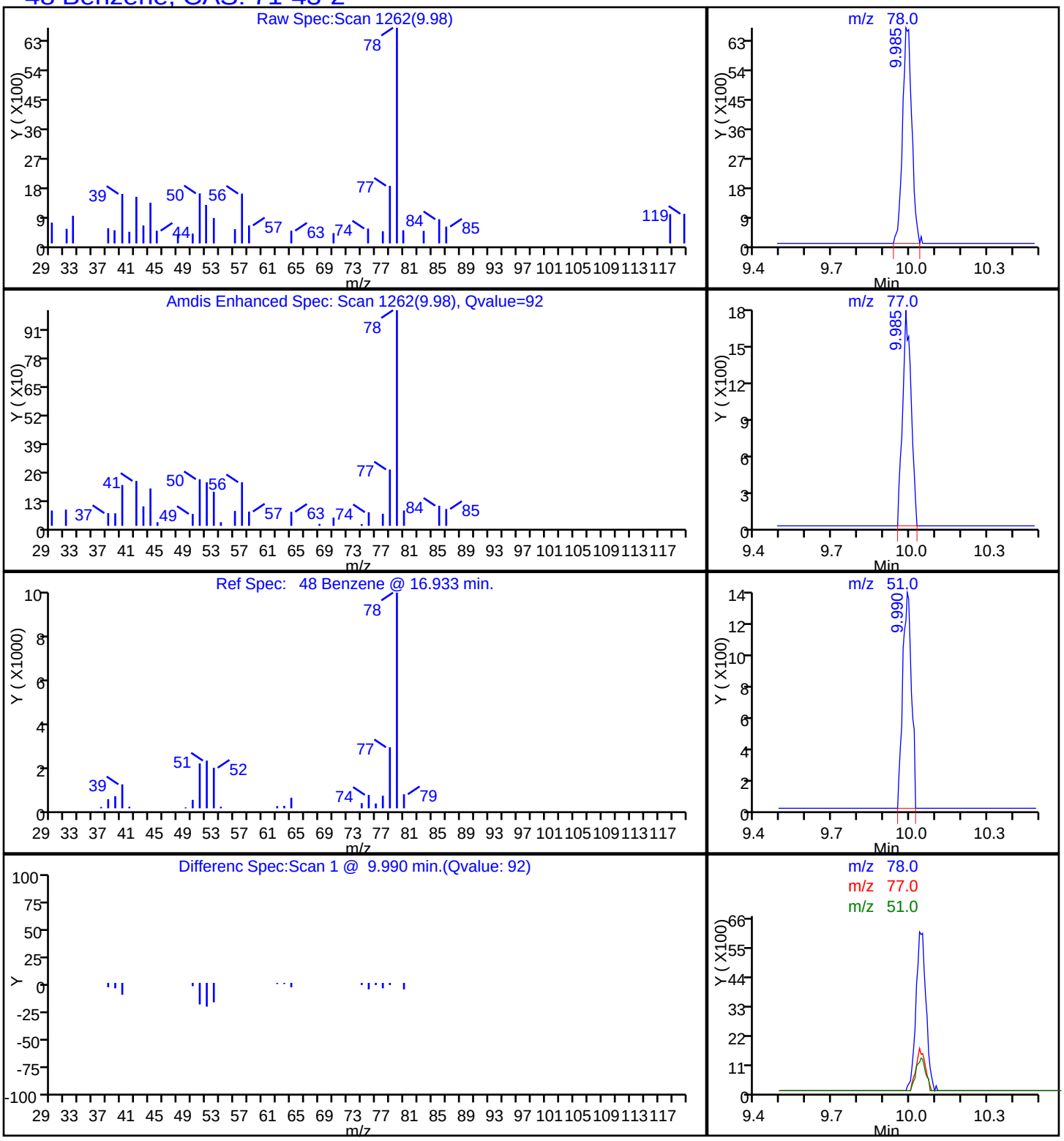
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



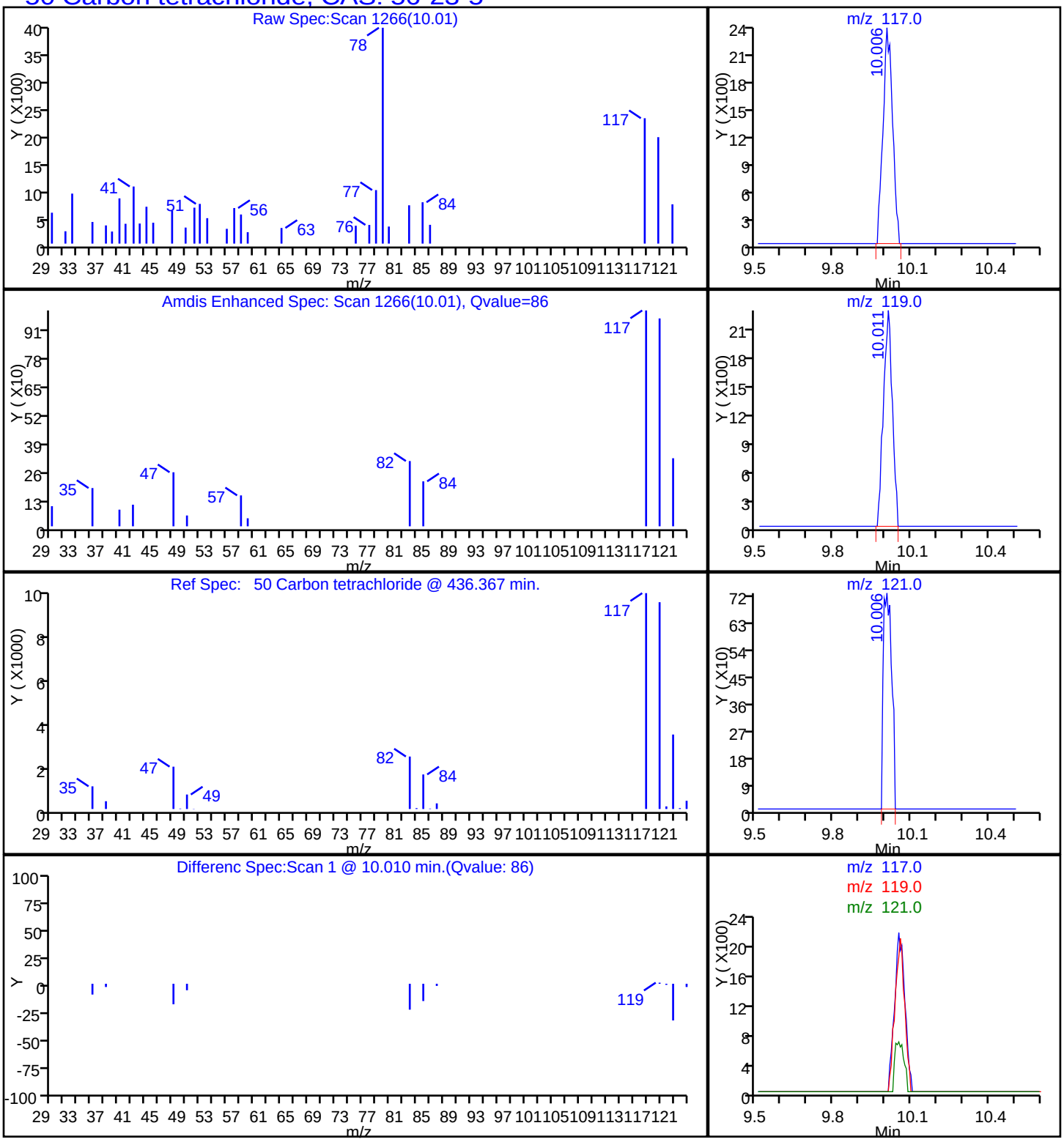
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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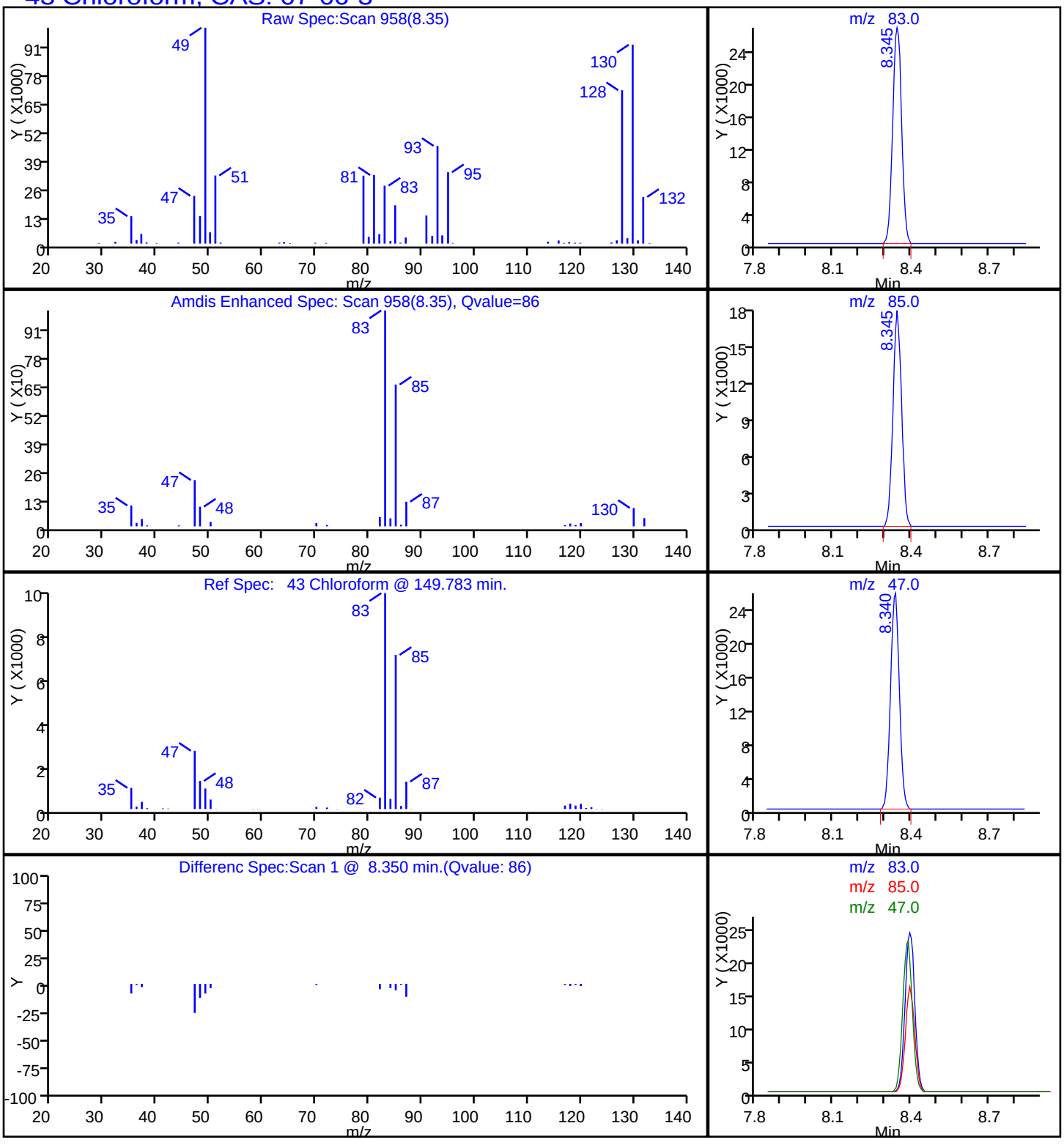
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date: 15-Mar-2014 02:46:30 Instrument ID: ME

Lims ID: 140-1041-A-14 Lab Sample ID: 140-1041-14

Client ID: PCV-IA2-B3

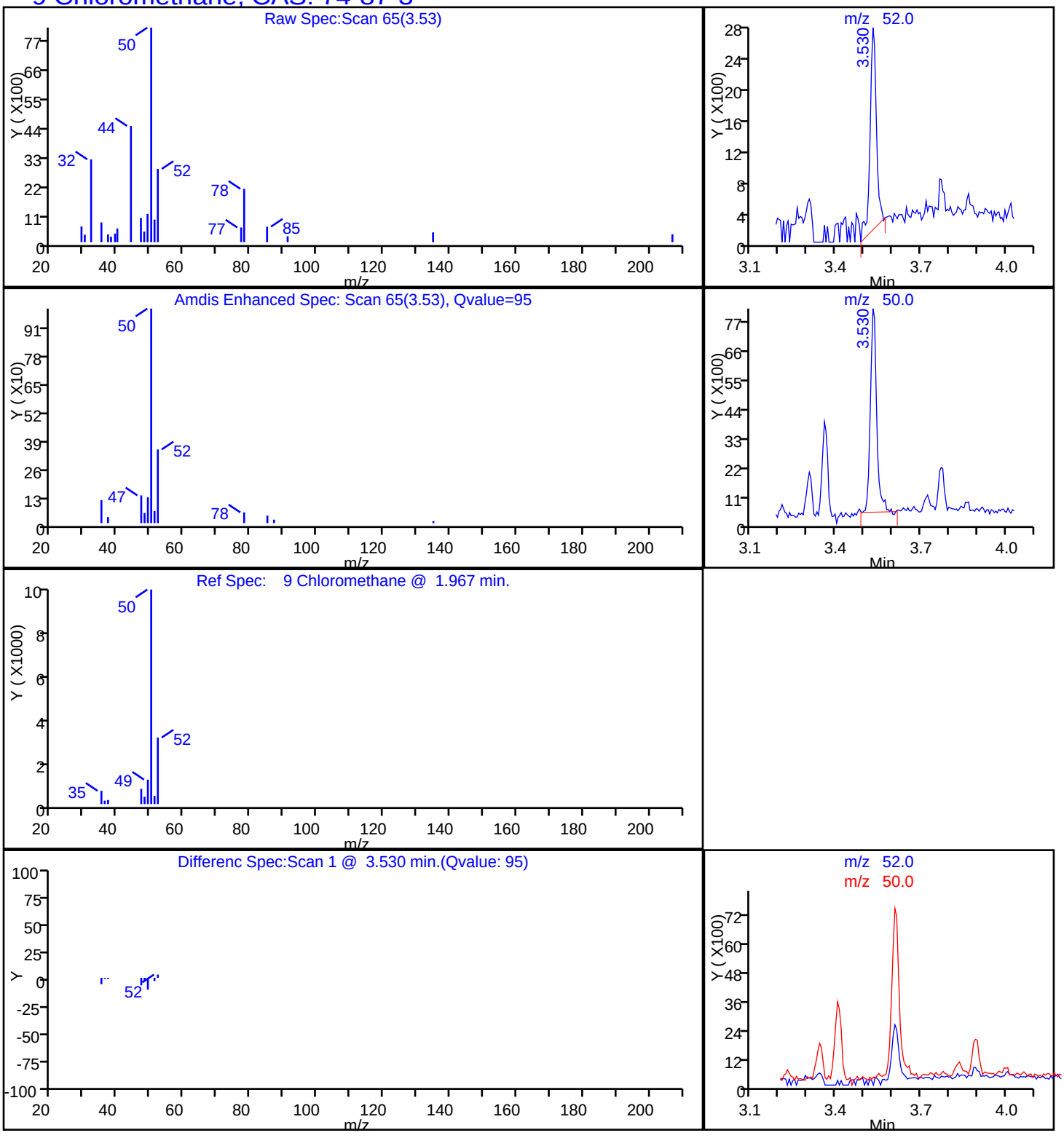
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3

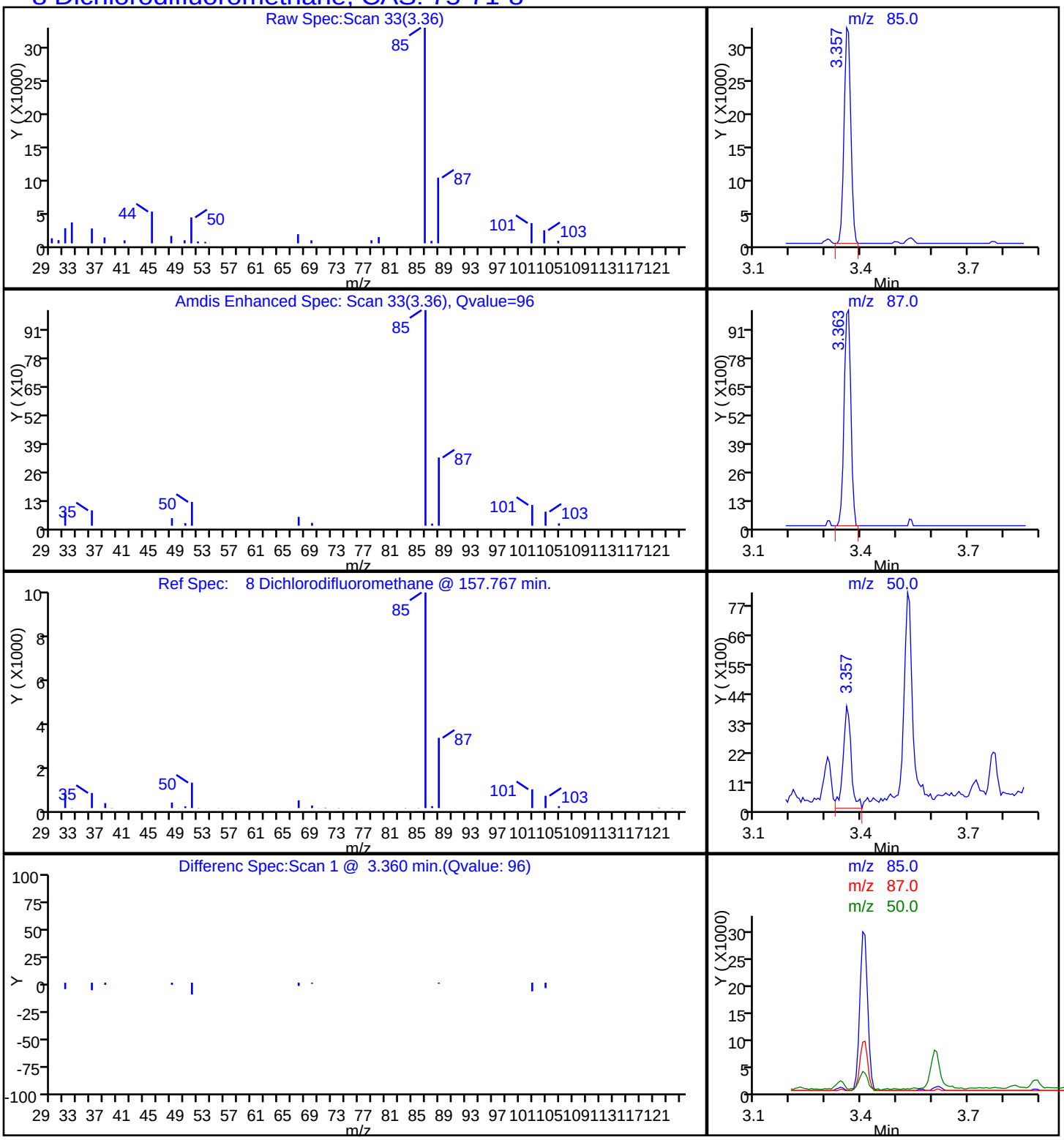


Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D				
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

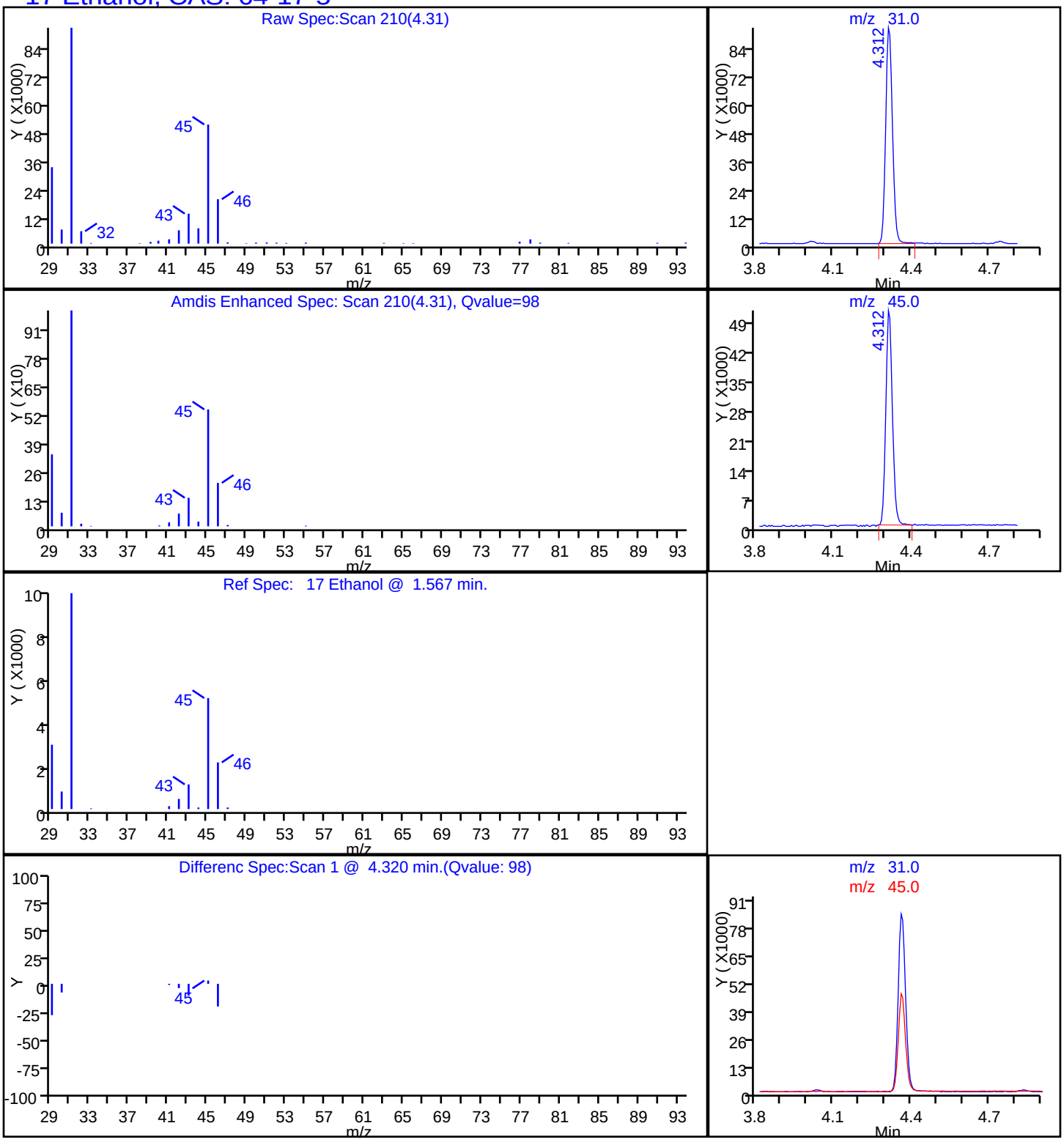


Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D		
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



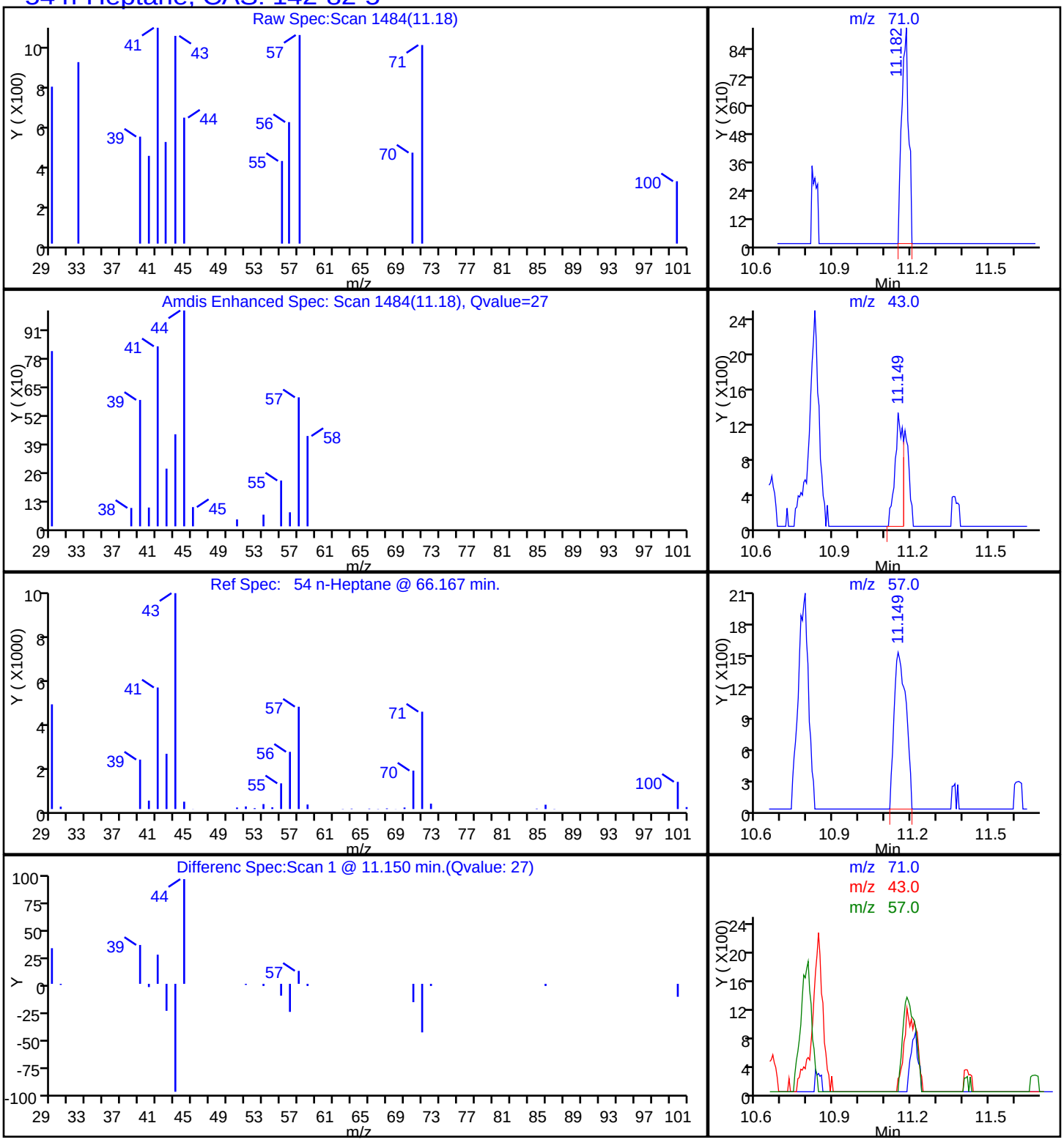
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



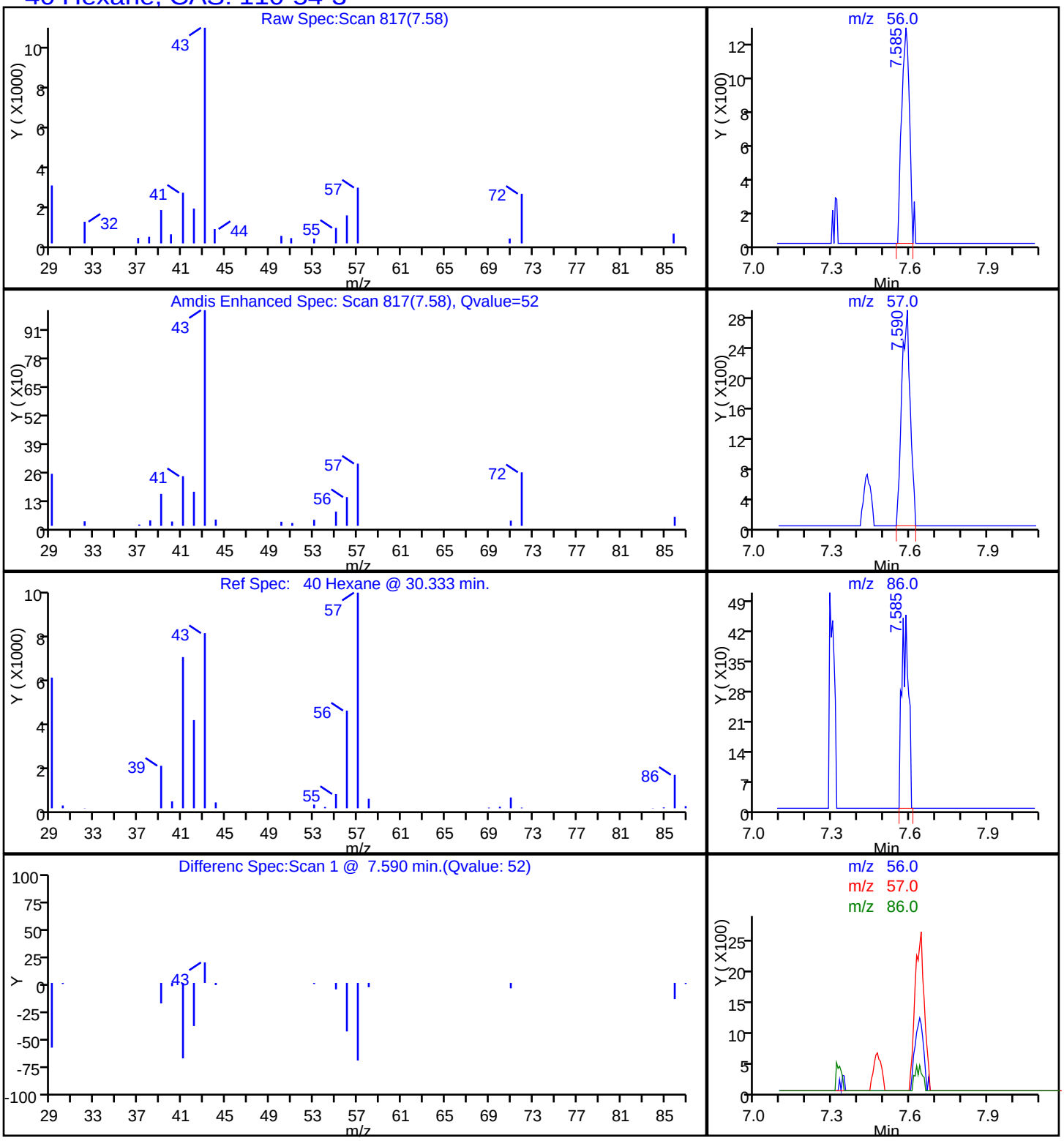
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME		
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14		
Client ID:	PCV-IA2-B3				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date: 15-Mar-2014 02:46:30 Instrument ID: ME

Lims ID: 140-1041-A-14 Lab Sample ID: 140-1041-14

Client ID: PCV-IA2-B3

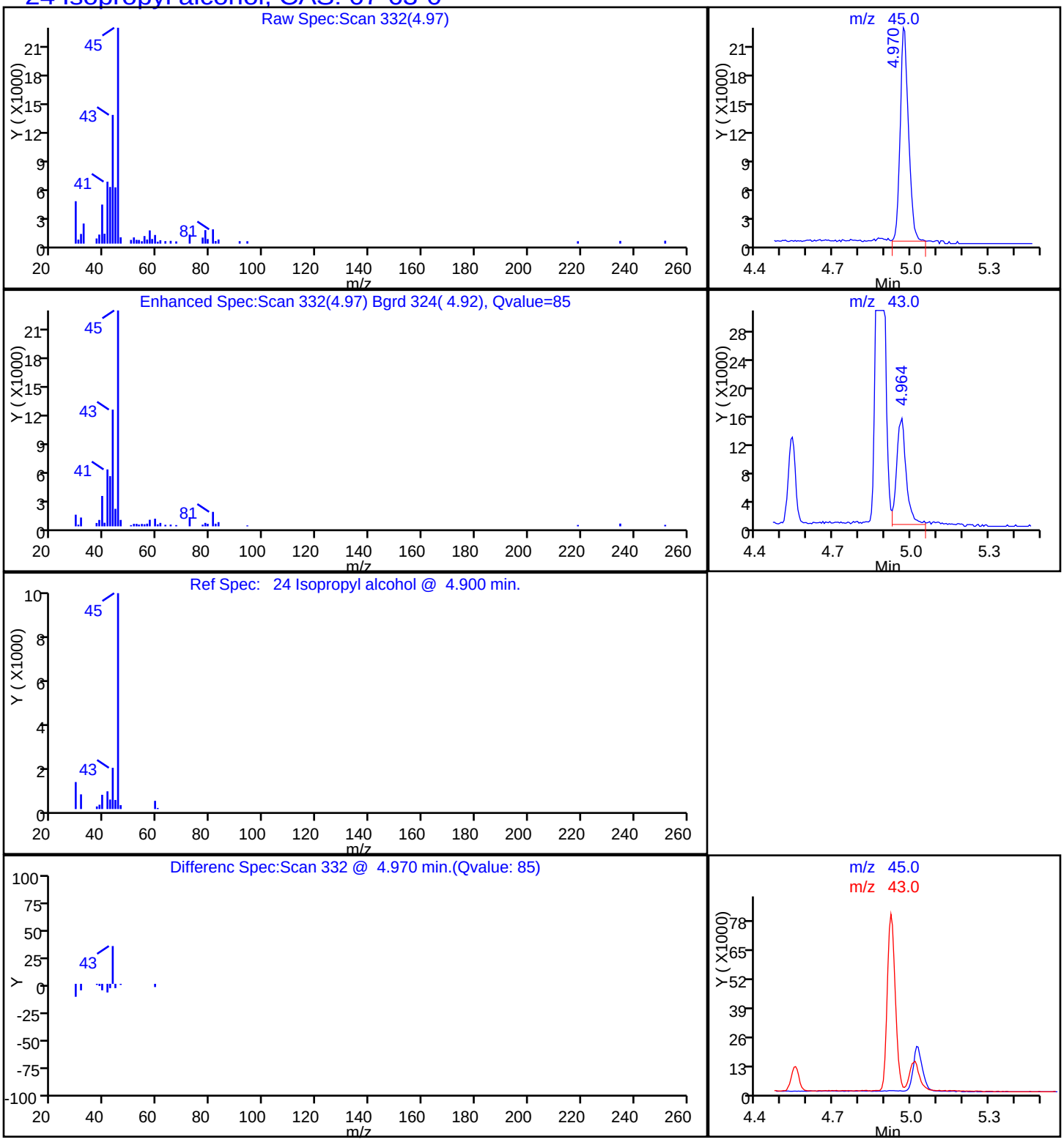
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

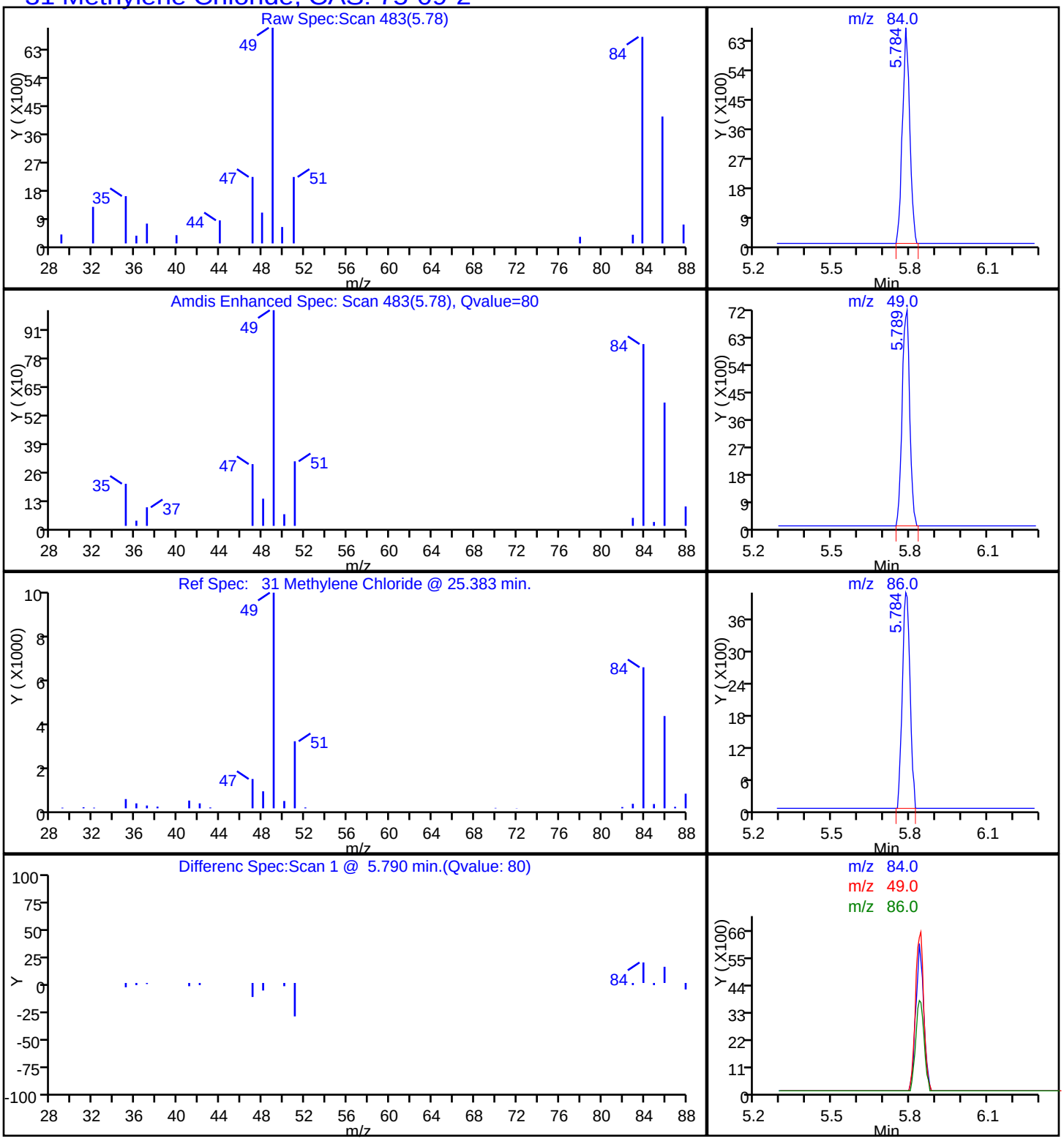


Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D		
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



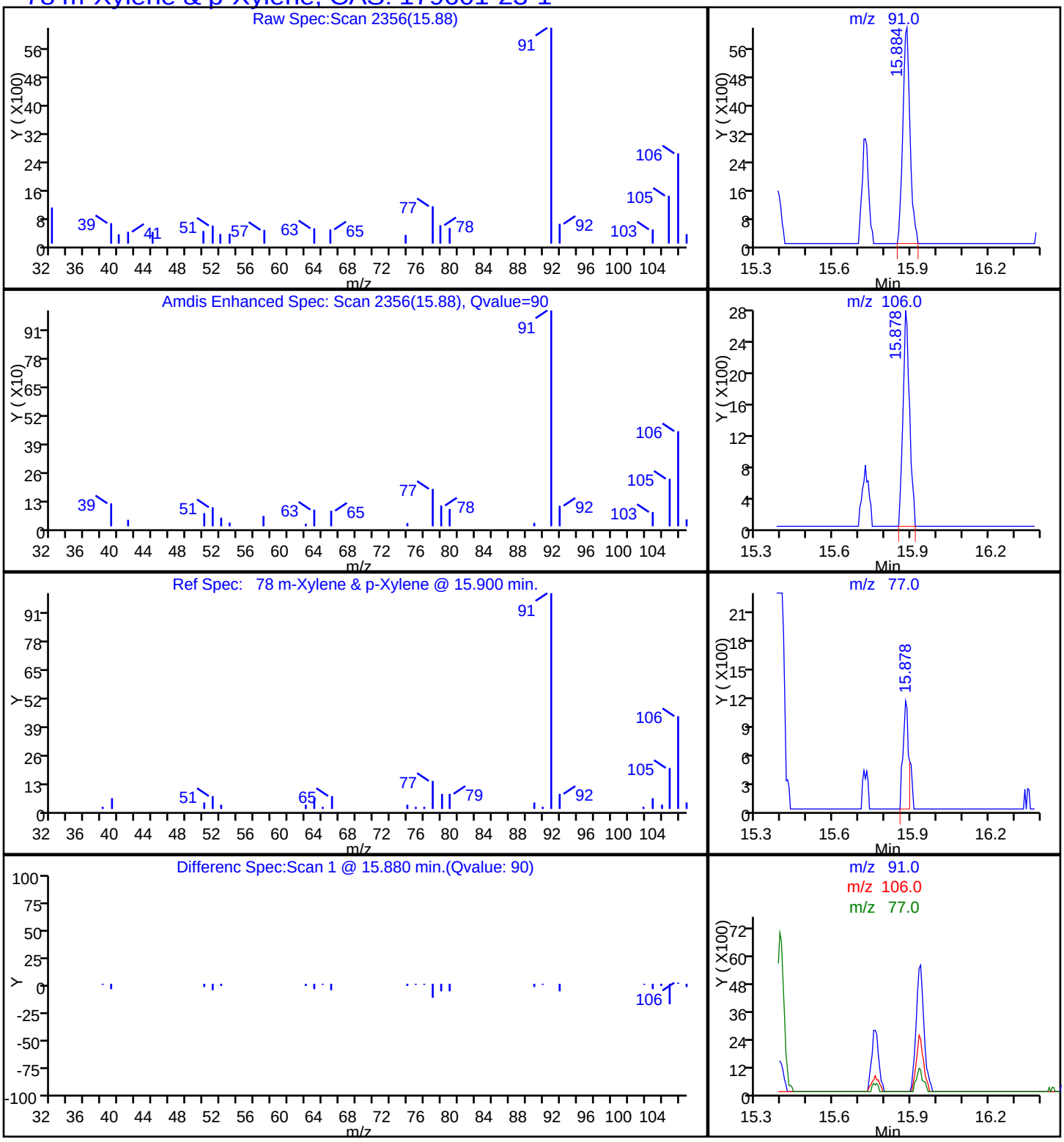
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

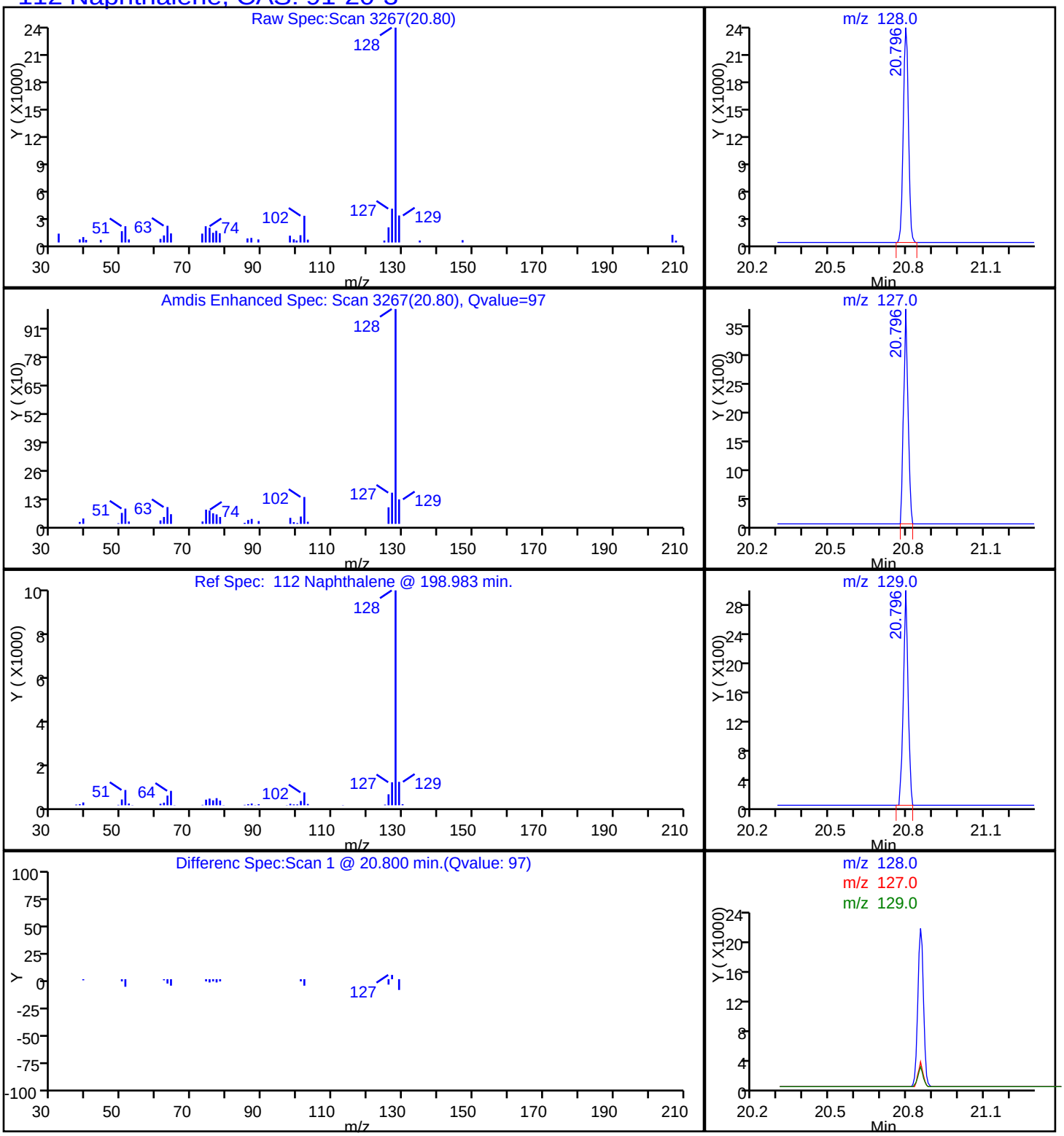


Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D		
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

112 Naphthalene, CAS: 91-20-3



Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date: 15-Mar-2014 02:46:30 Instrument ID: ME

Lims ID: 140-1041-A-14 Lab Sample ID: 140-1041-14

Client ID: PCV-IA2-B3

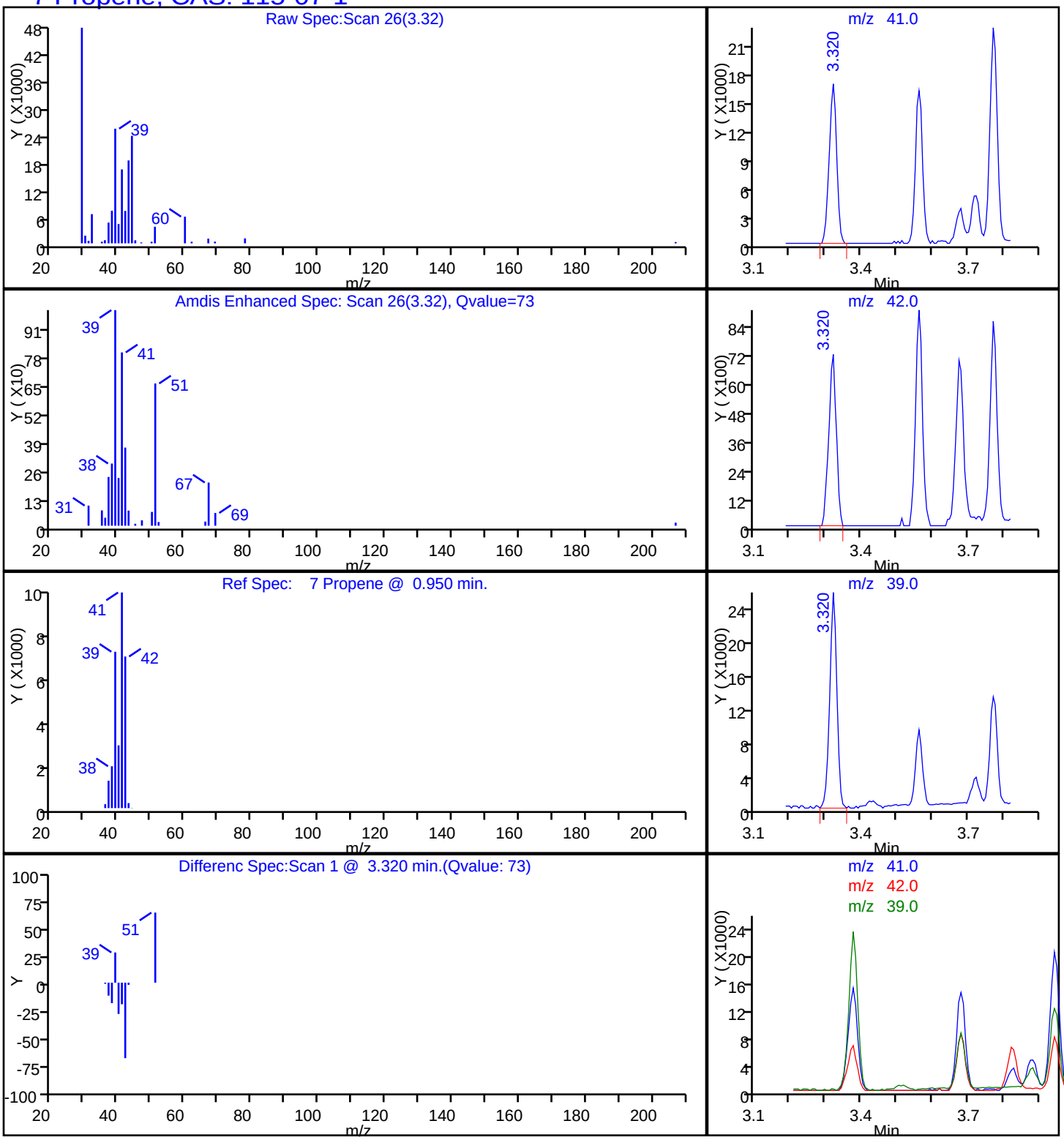
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



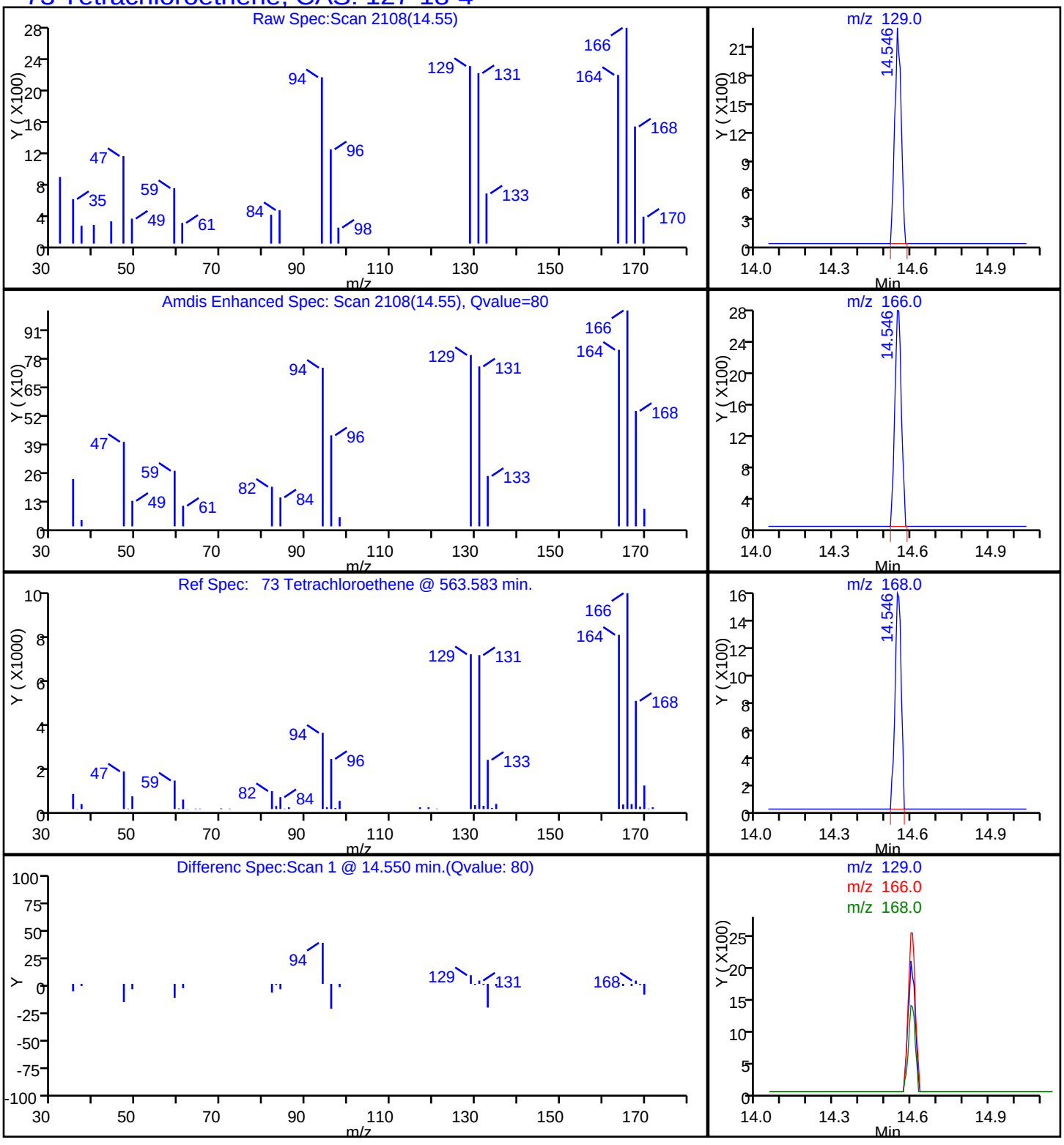
Report Date: 24-Mar-2014 15:51:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D

Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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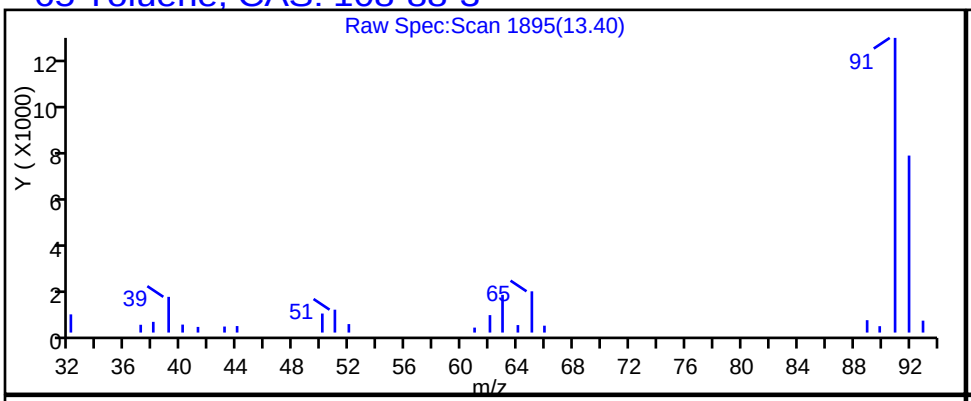
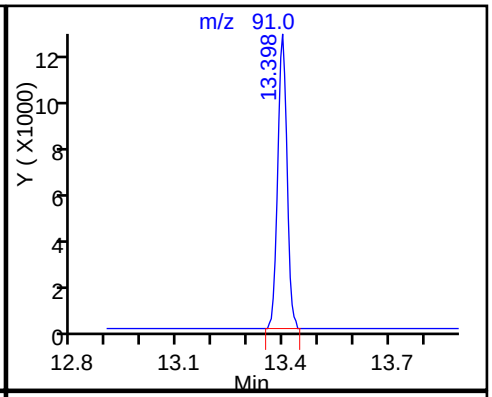
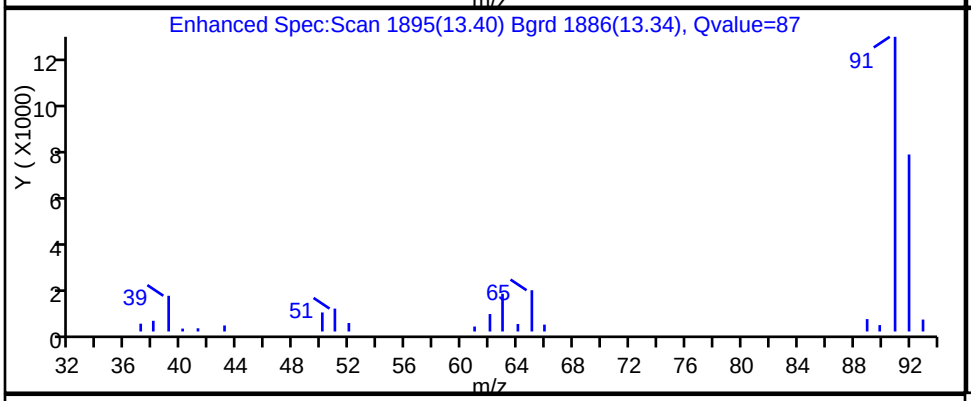
TestAmerica Knoxville

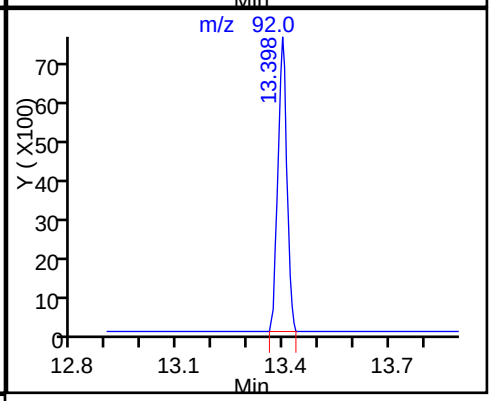
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D		
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

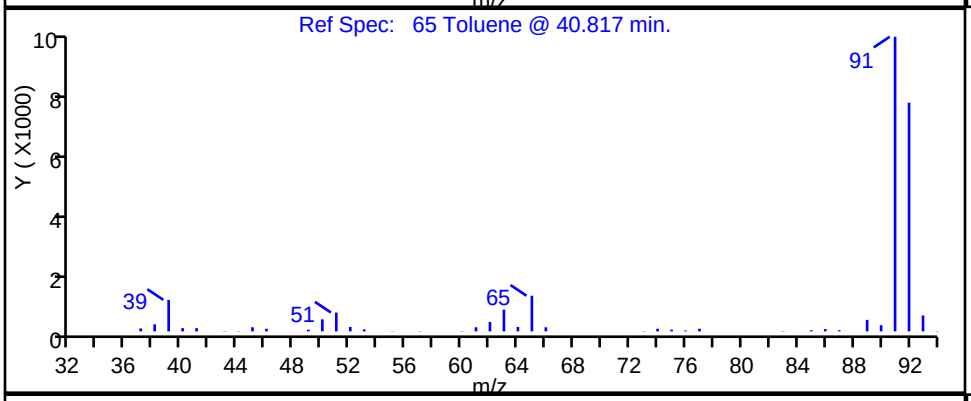
65 Toluene, CAS: 108-88-3

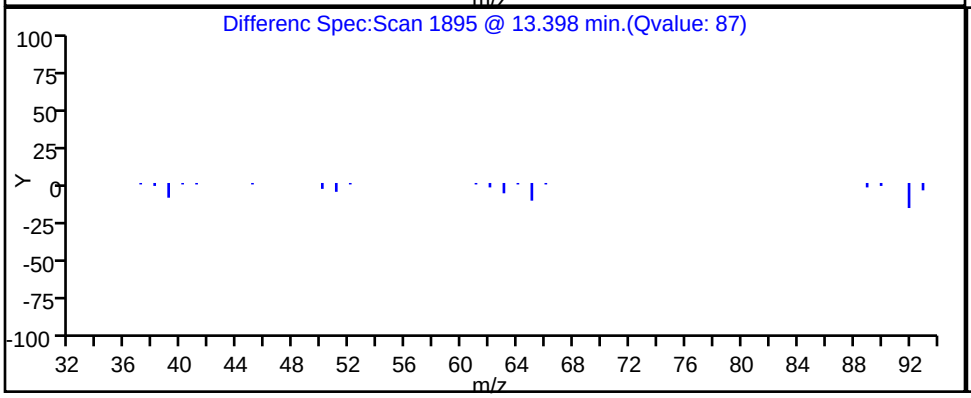


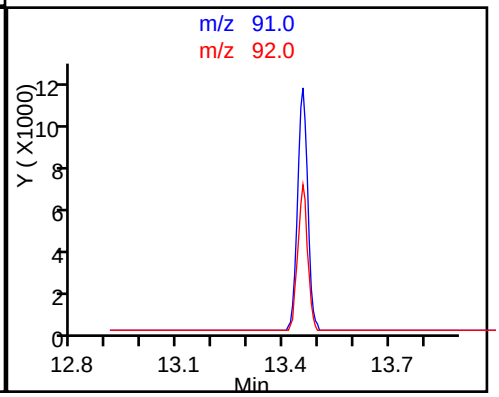










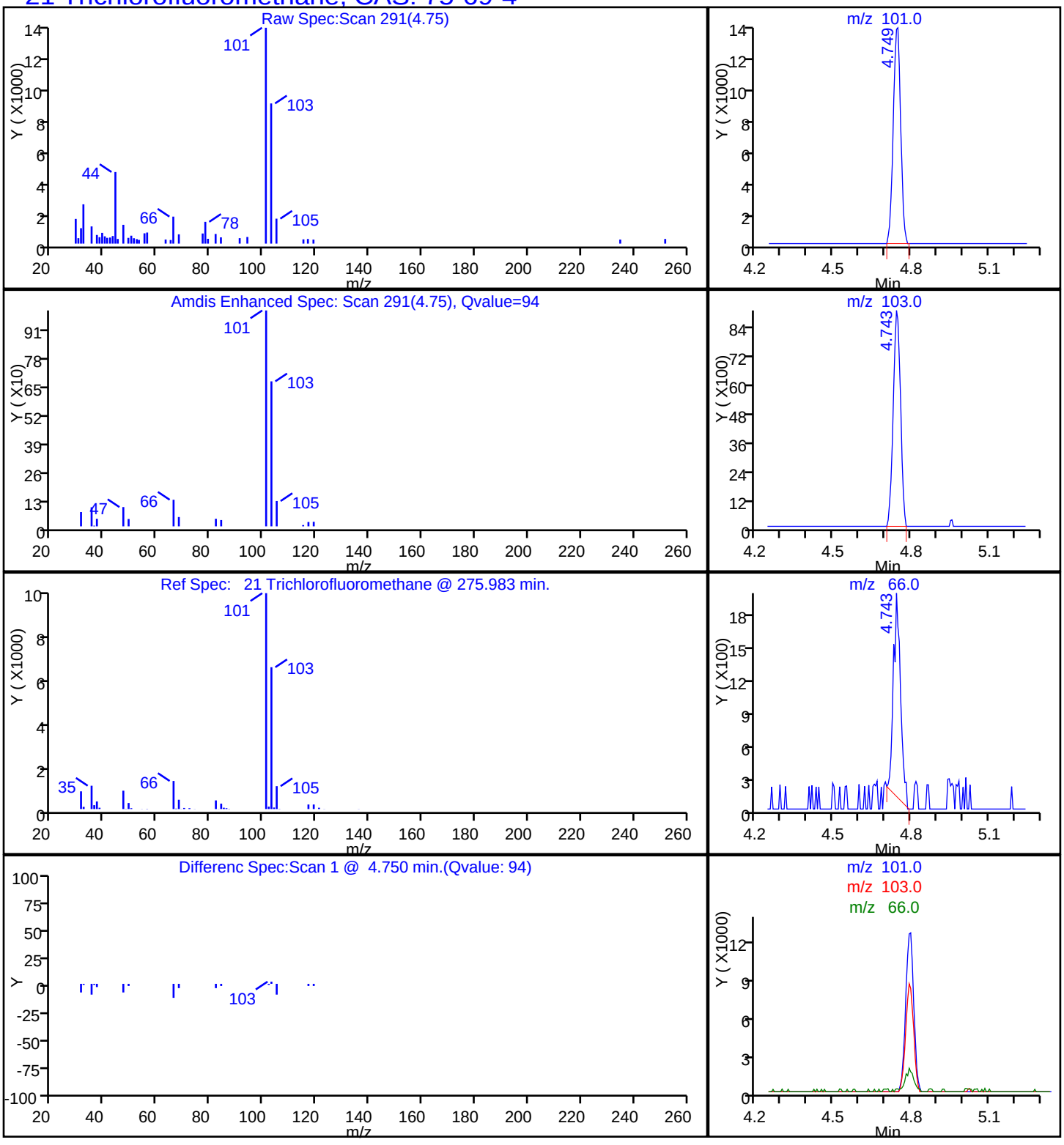


Report Date: 24-Mar-2014 15:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P114.D		
Injection Date:	15-Mar-2014 02:46:30	Instrument ID:	ME
Lims ID:	140-1041-A-14	Lab Sample ID:	140-1041-14
Client ID:	PCV-IA2-B3		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.078	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.054	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.39	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.90		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.052	J	0.50	0.045
67-64-1	Acetone	58.08	4.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.85		0.20	0.038
74-87-3	Chloromethane	50.49	0.61		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.52		0.20	0.068
64-17-5	Ethanol	46.07	33		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.15	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.33	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.7	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.1		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.6	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.098	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.27		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.36		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.47	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.21	J	2.0	0.18
67-64-1	Acetone	58.08	11	J	12	3.3
71-43-2	Benzene	78.11	0.74		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	4.2		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.99	0.34
64-17-5	Ethanol	46.07	61		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.60	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.2	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.1	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	3.7		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.56	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.67	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	2.0		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-IA3-B3 Lab Sample ID: 140-1041-15

Matrix: Air Lab File ID: EC14P115.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:21

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 03:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D
Lims ID: 140-1041-A-15 Lab Sample ID: 140-1041-15
Client ID: PCV-IA3-B3
Sample Type: Client
Inject. Date: 15-Mar-2014 03:32:30 ALS Bottle#: 15 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-15
Misc. Info.: E031414,TO155,,140-0000522-020
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 15:51:51 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:35:13

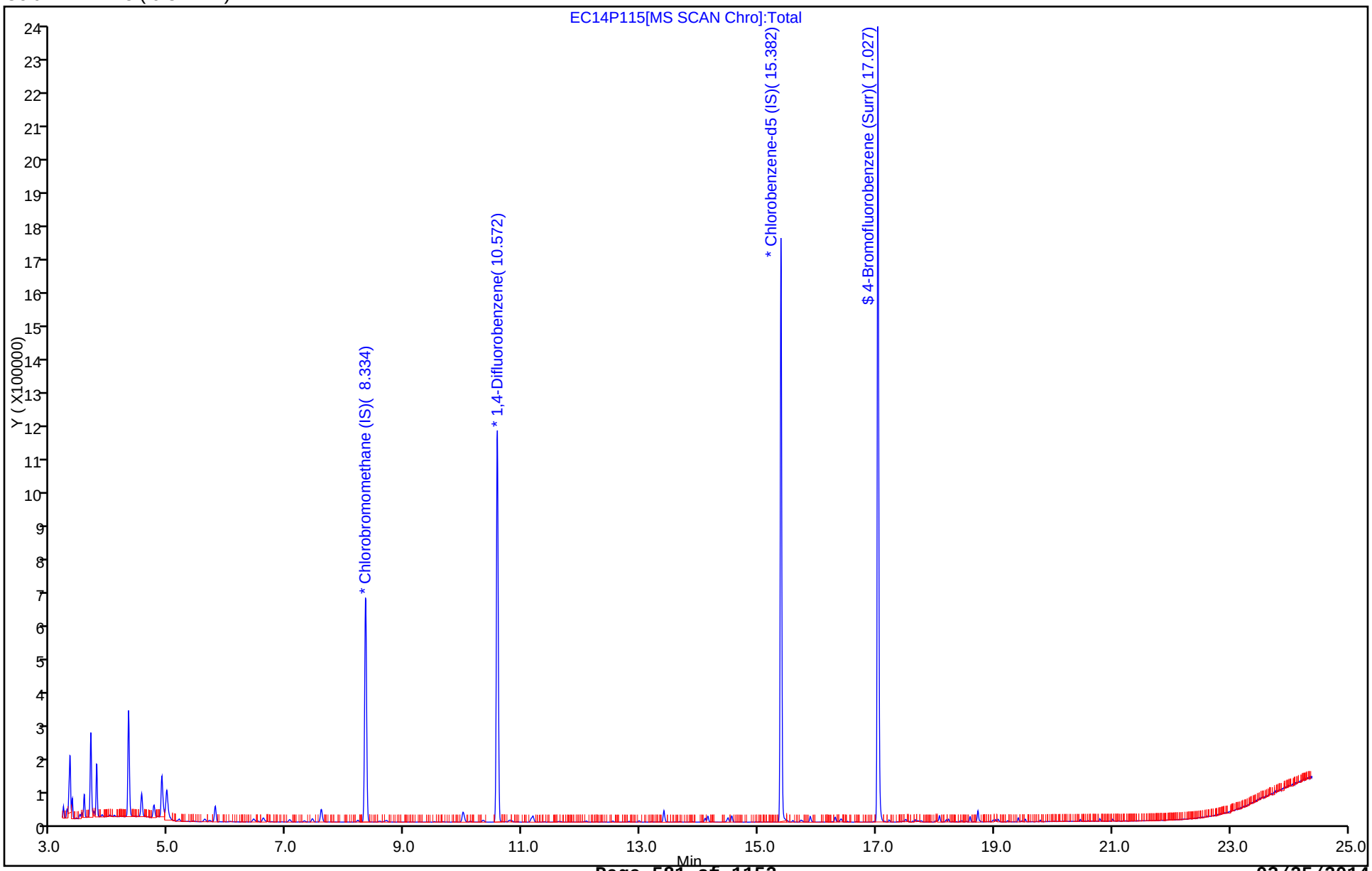
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	80	179001	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	887225	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	828300	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	771913	4.26	
7 Propene	41	3.319	3.314	0.005	72	28330	0.6292	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	41188	0.2080	
9 Chloromethane	52	3.530	3.530	0.0	99	3845	0.2433	
17 Ethanol	31	4.317	4.317	0.0	98	233615	13.0	
19 2-Methylbutane	43	4.538	4.538	0.0	86	22464	0.3584	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	94	28951	0.1458	
23 Acetone	58	4.883	4.883	0.0	92	50684	1.87	
24 Isopropyl alcohol	45	4.975	4.975	0.0	85	46876	0.6715	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	64	3694	0.0300	
31 Methylene Chloride	84	5.784	5.795	-0.011	81	21570	0.4217	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	86	4518	0.1542	
40 Hexane	56	7.579	7.590	-0.011	74	6271	0.1317	
43 Chloroform	83	8.345	8.356	-0.011	84	52234	0.3406	
48 Benzene	78	9.990	9.995	-0.005	93	16484	0.0923	
50 Carbon tetrachloride	117	10.017	10.017	0.0	88	5564	0.0324	
53 Isooctane	57	10.788	10.788	0.0	52	5968	0.0217	
54 n-Heptane	71	11.182	11.182	0.0	66	3964	0.0587	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	61	2175	0.0207	
65 Toluene	91	13.398	13.403	-0.005	88	23686	0.1067	
73 Tetrachloroethene	129	14.552	14.552	0.0	80	3712	0.0393	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	87	11554	0.0517	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	76	5059	0.0311	

Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D				
Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15	Worklist Smp#:	20
Client ID:	PCV-IA3-B3				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



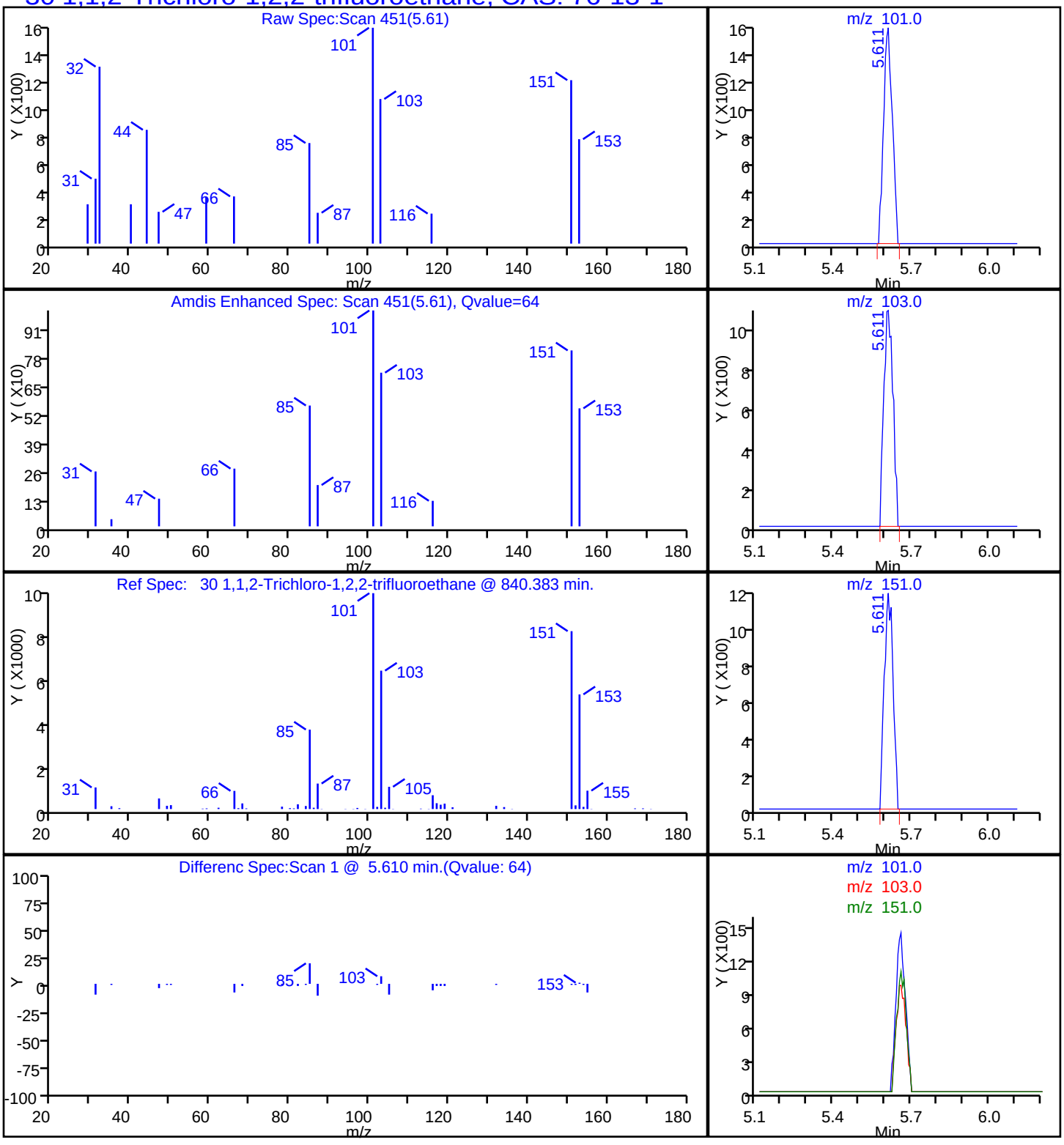
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME		
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15		
Client ID:	PCV-IA3-B3				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



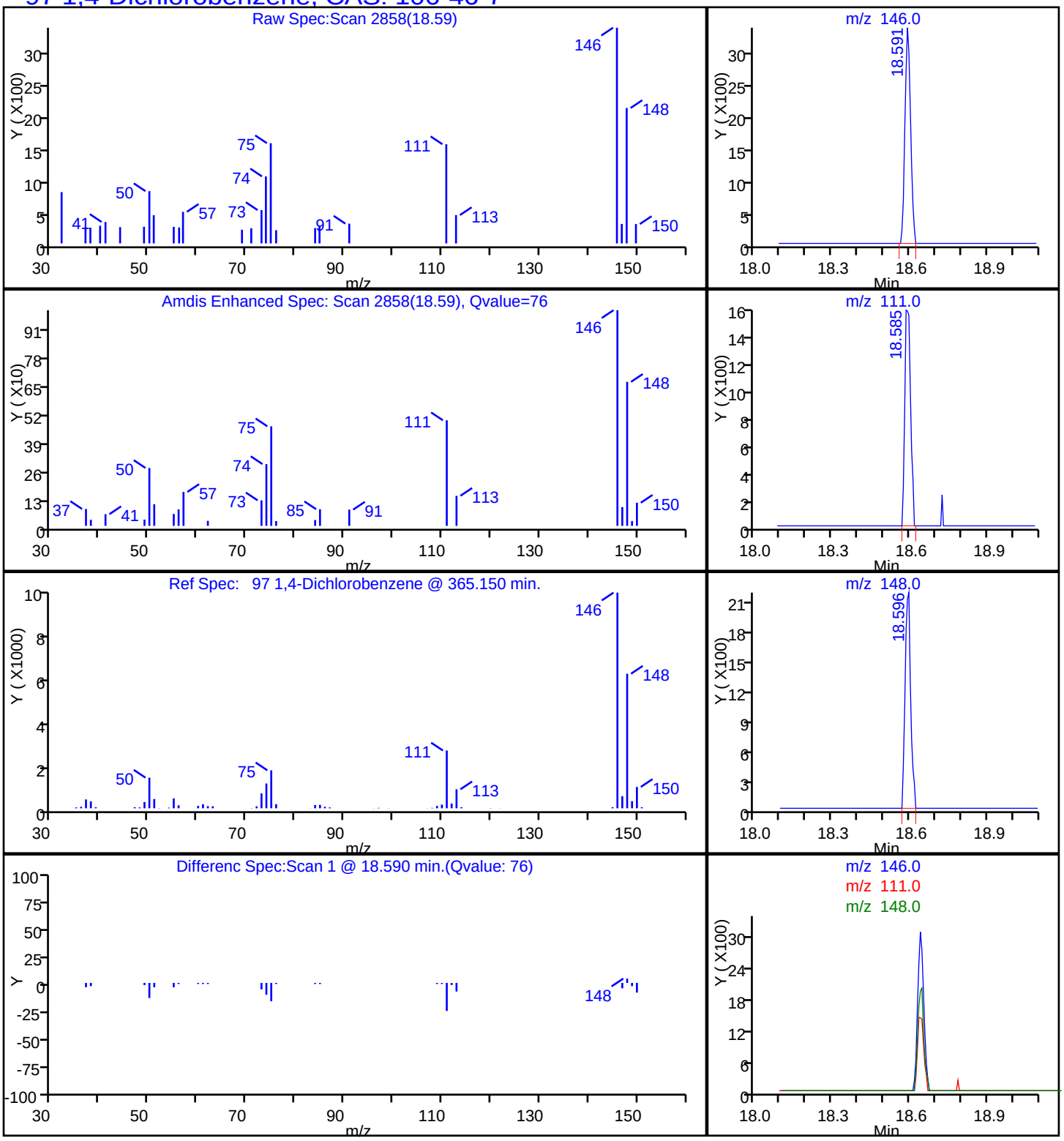
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



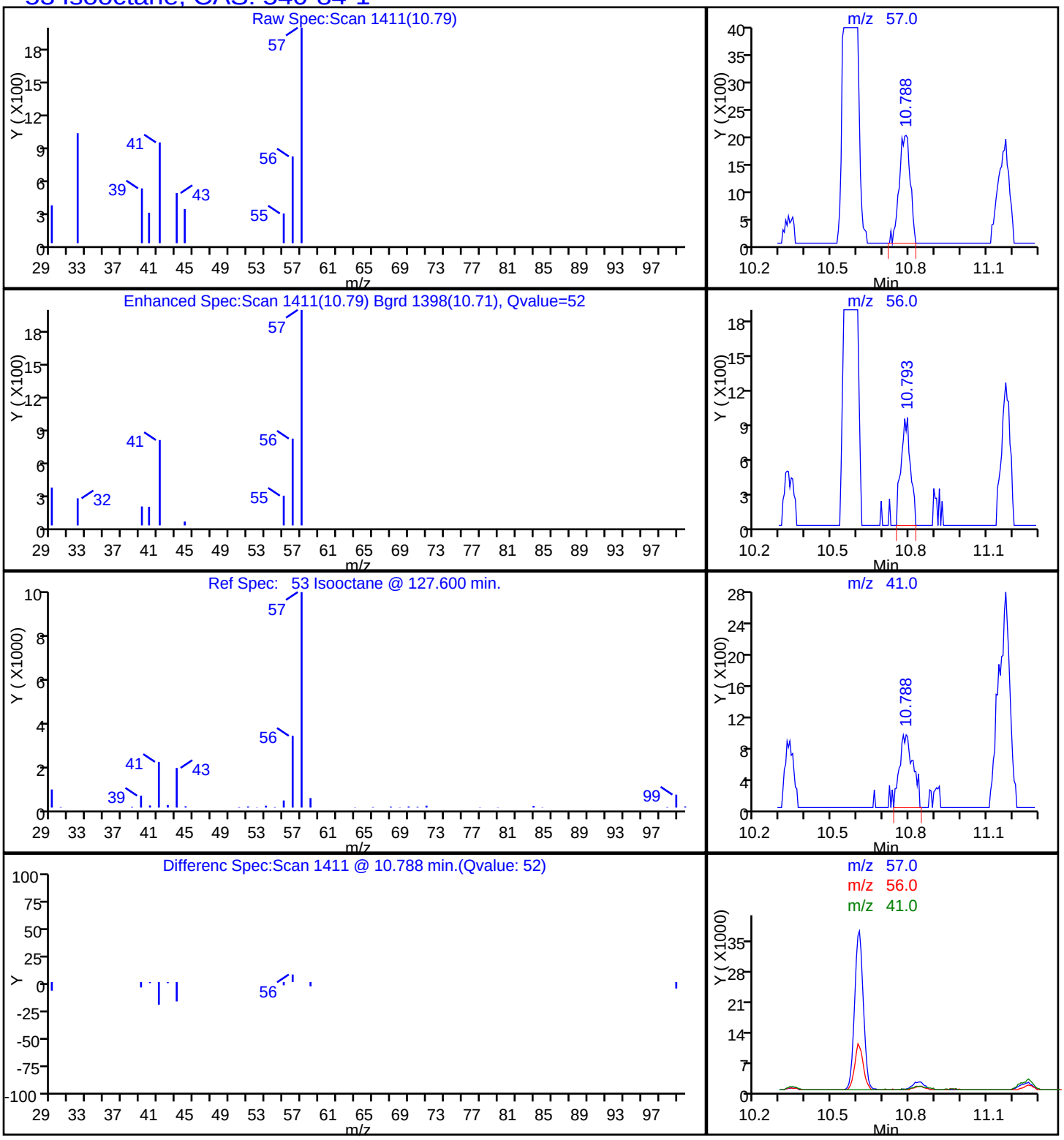
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



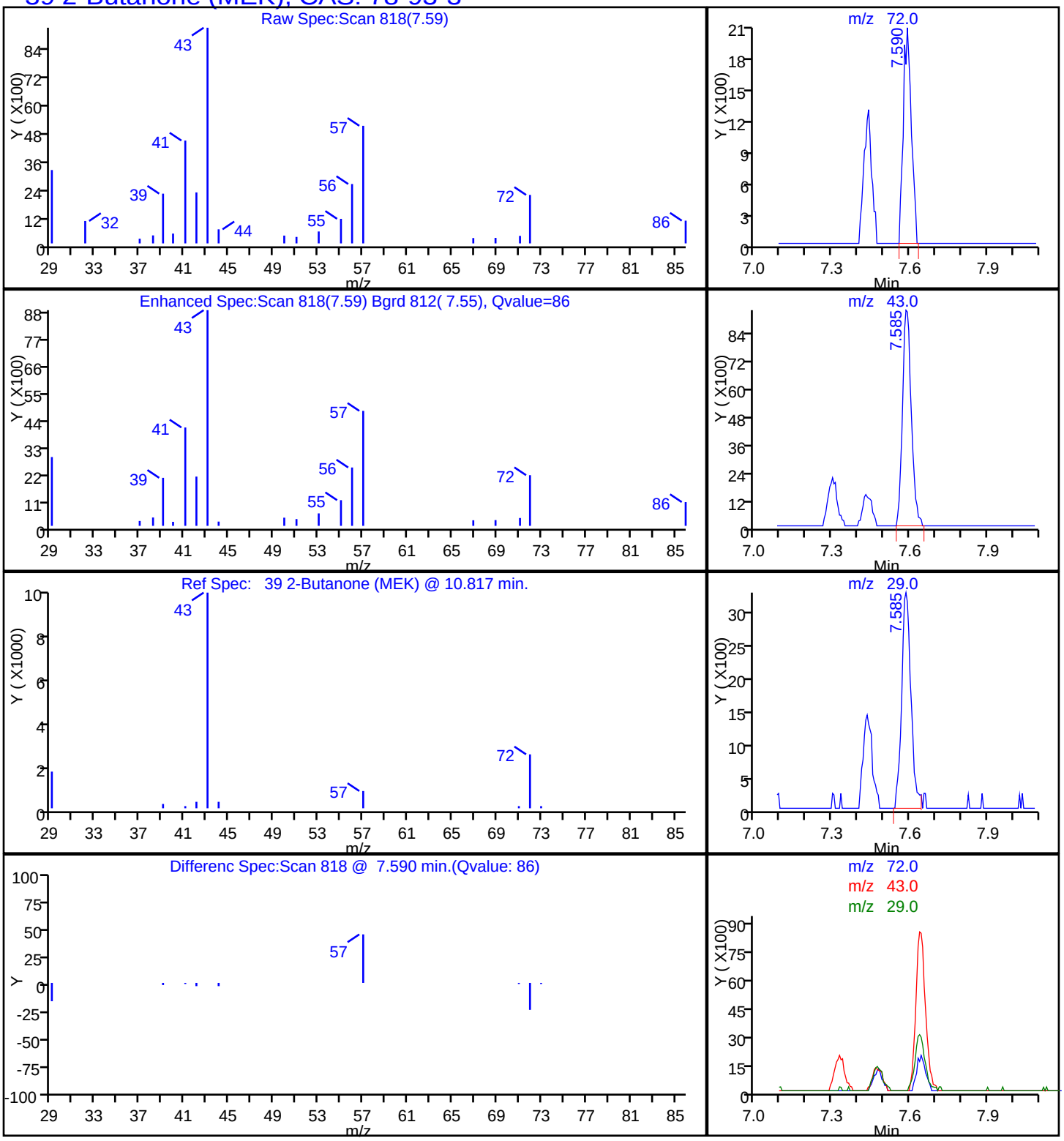
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



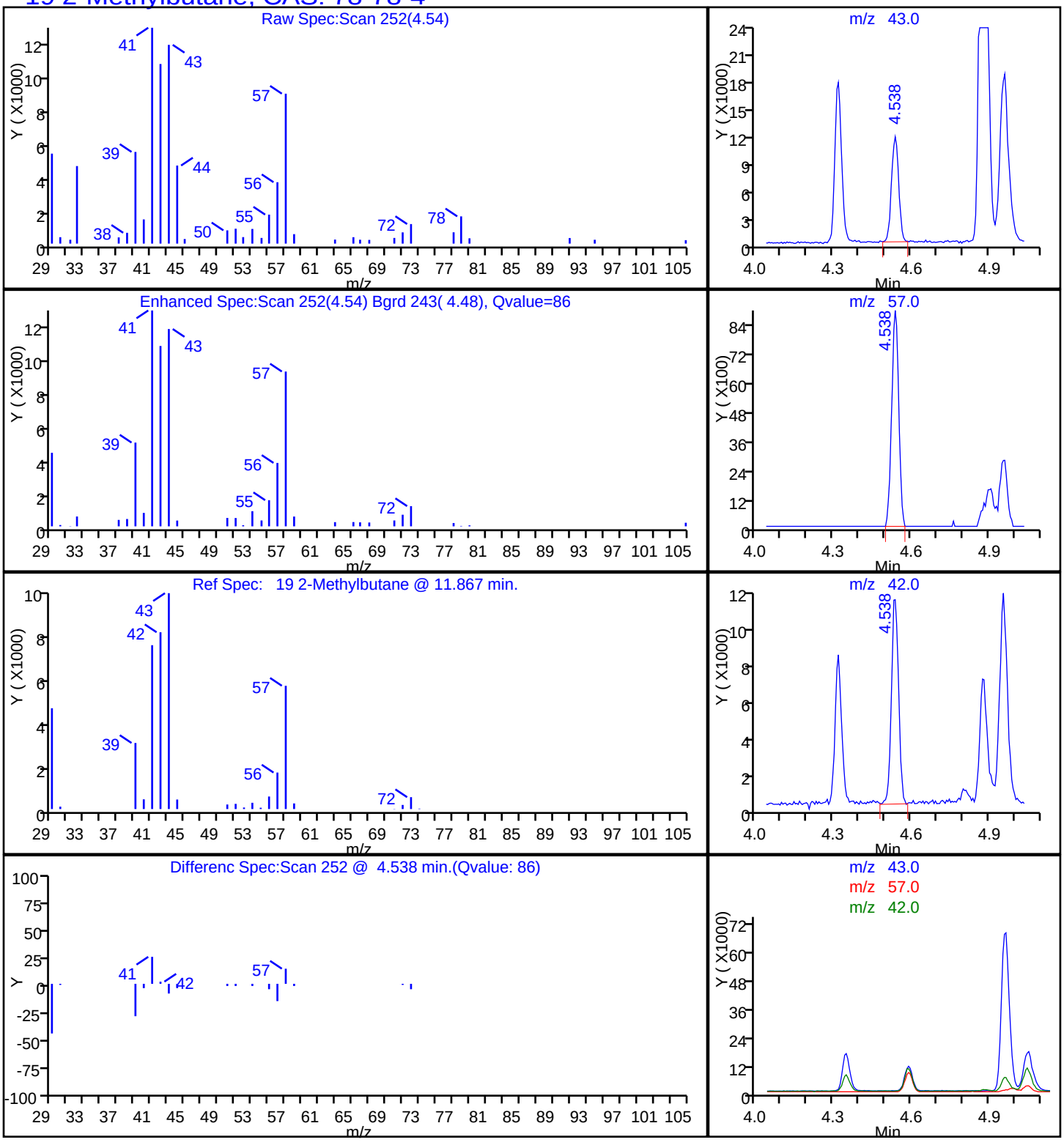
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



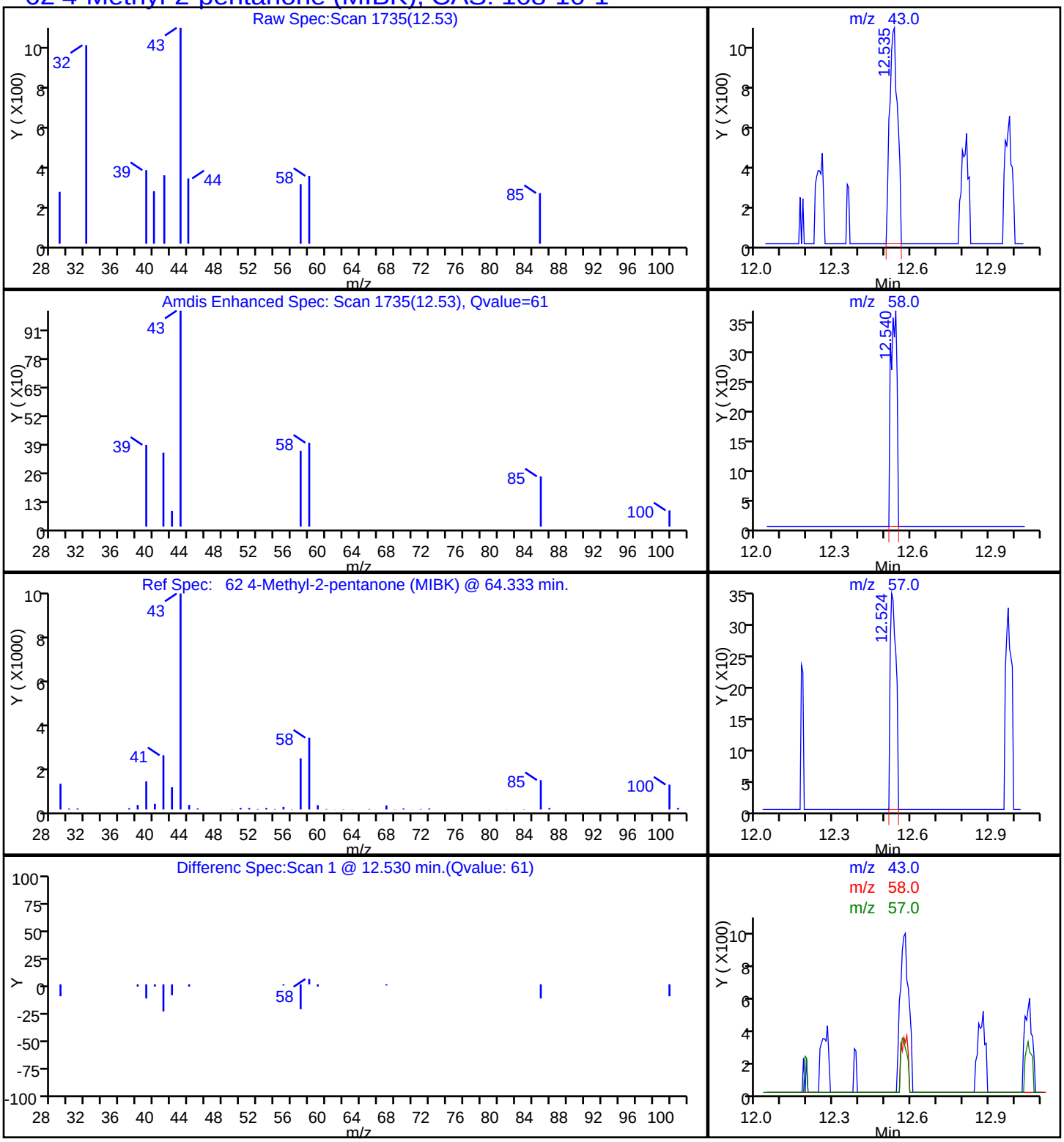
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



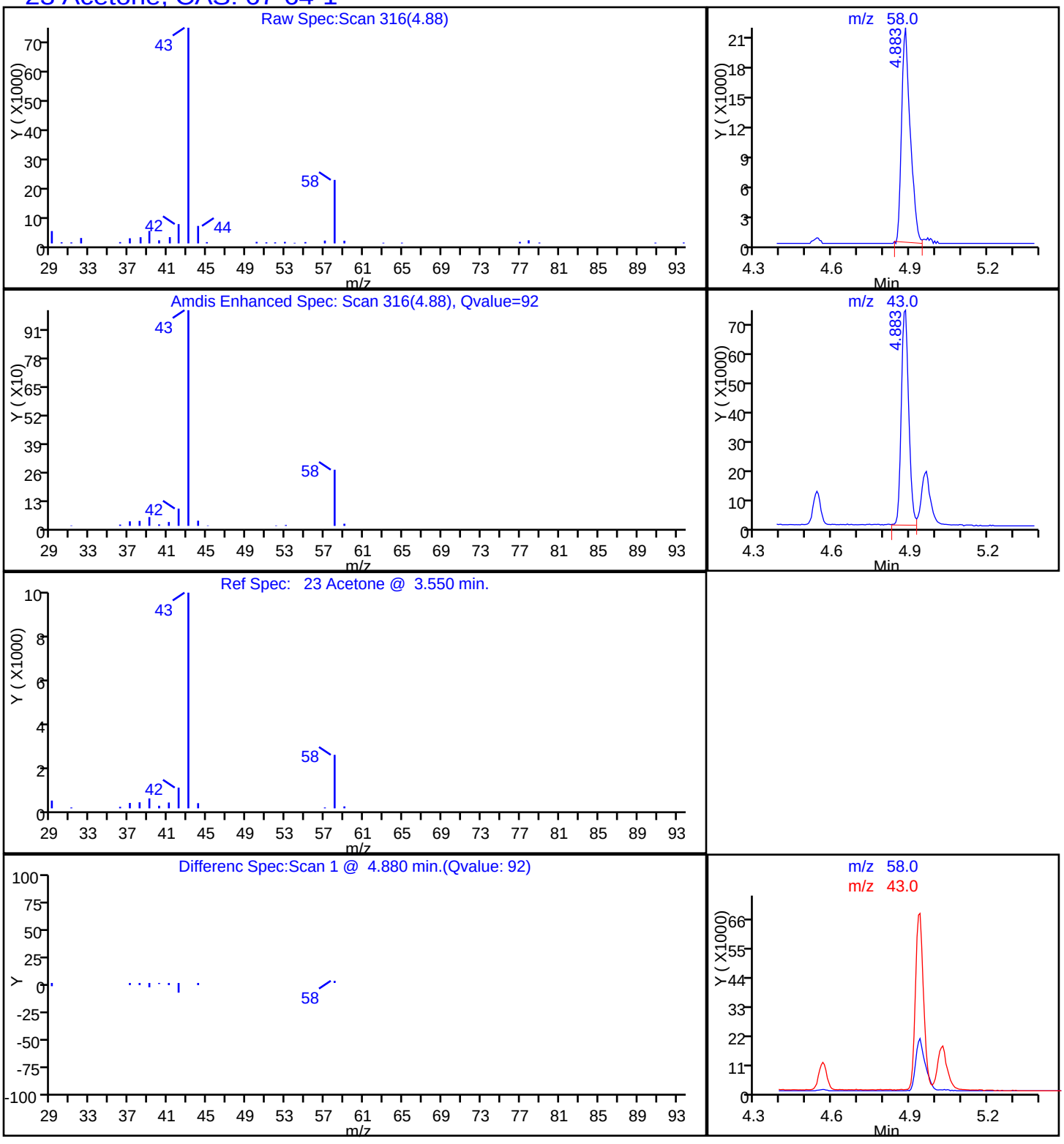
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME		
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15		
Client ID:	PCV-IA3-B3				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

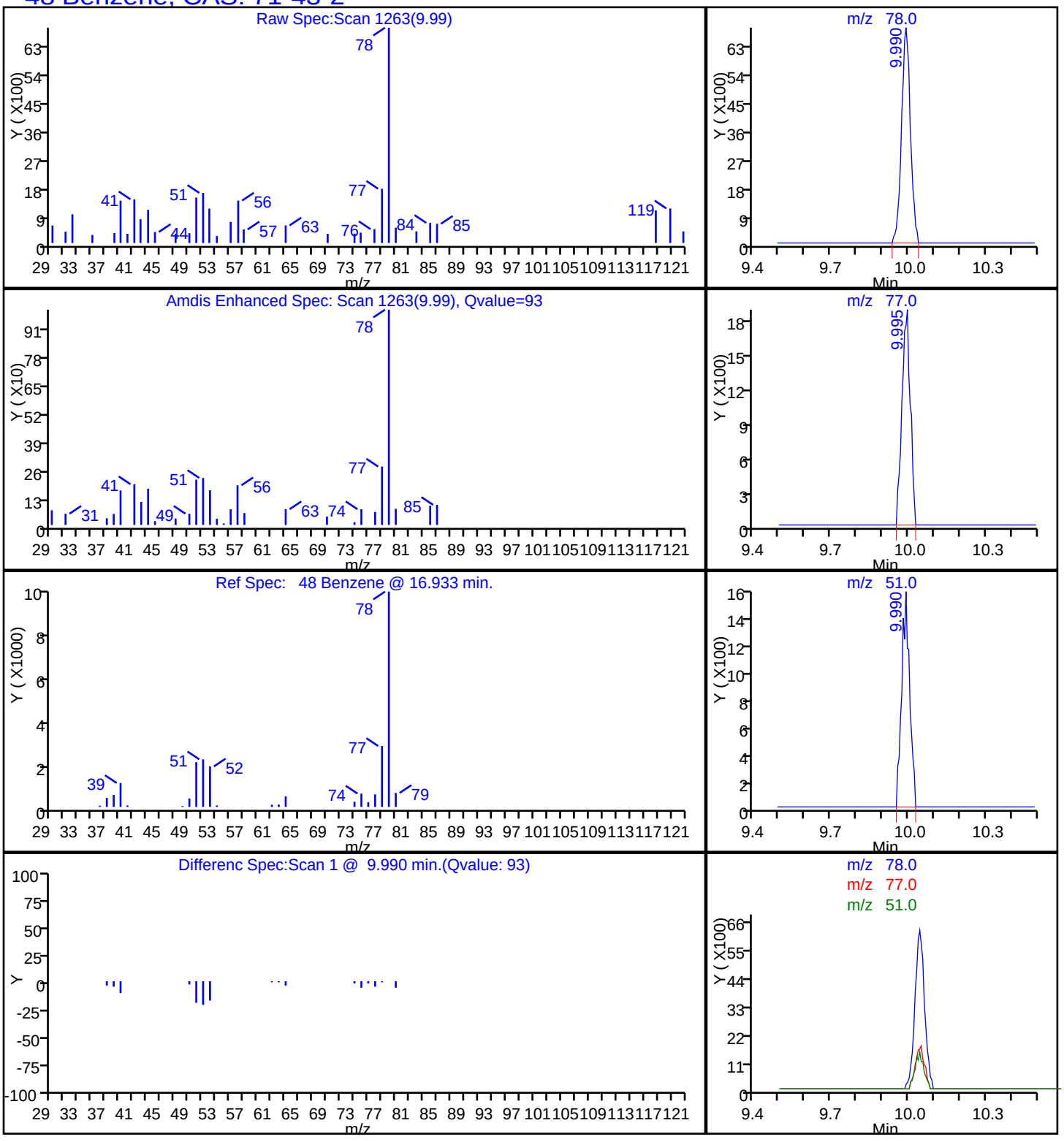


Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D		
Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



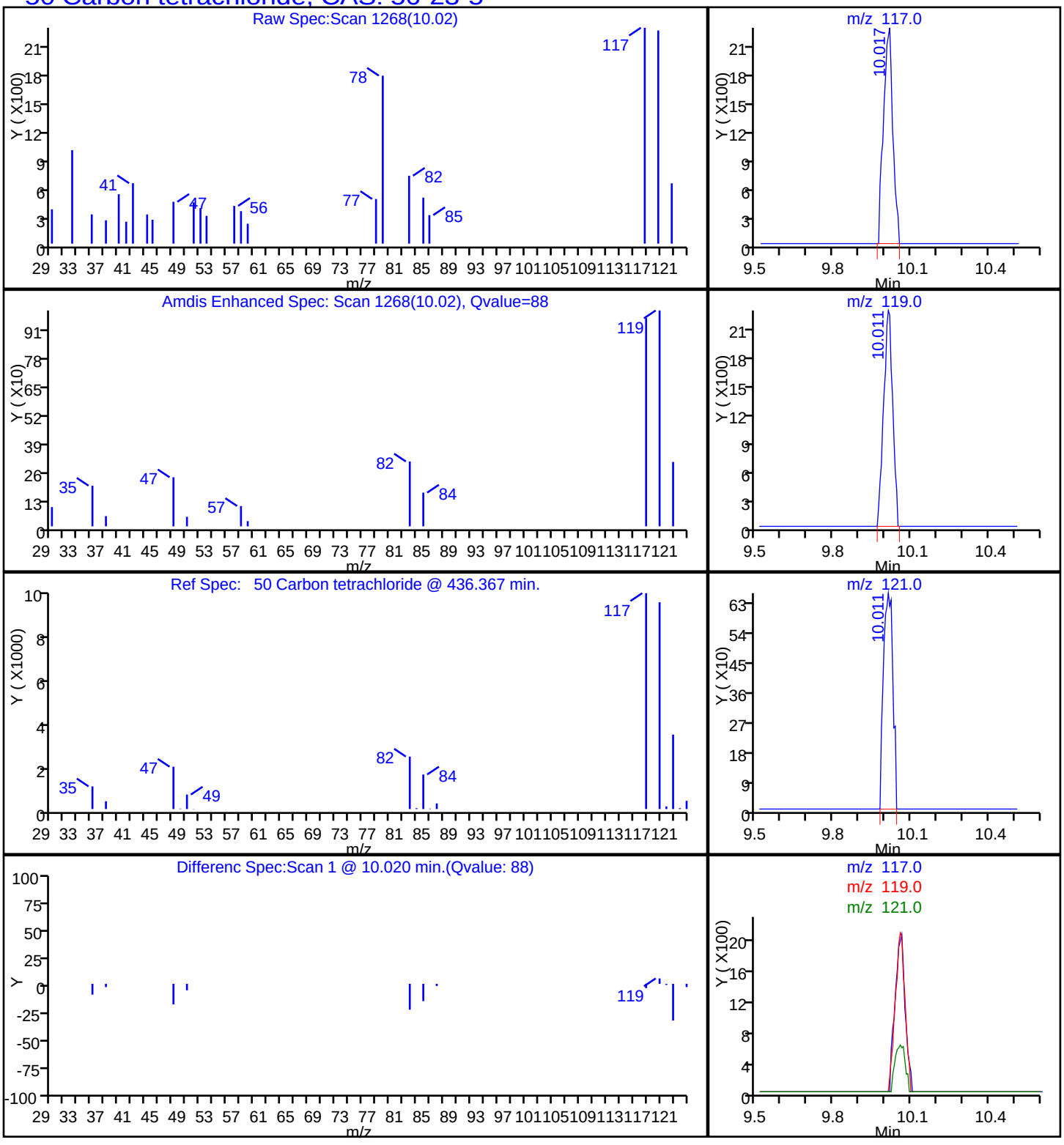
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



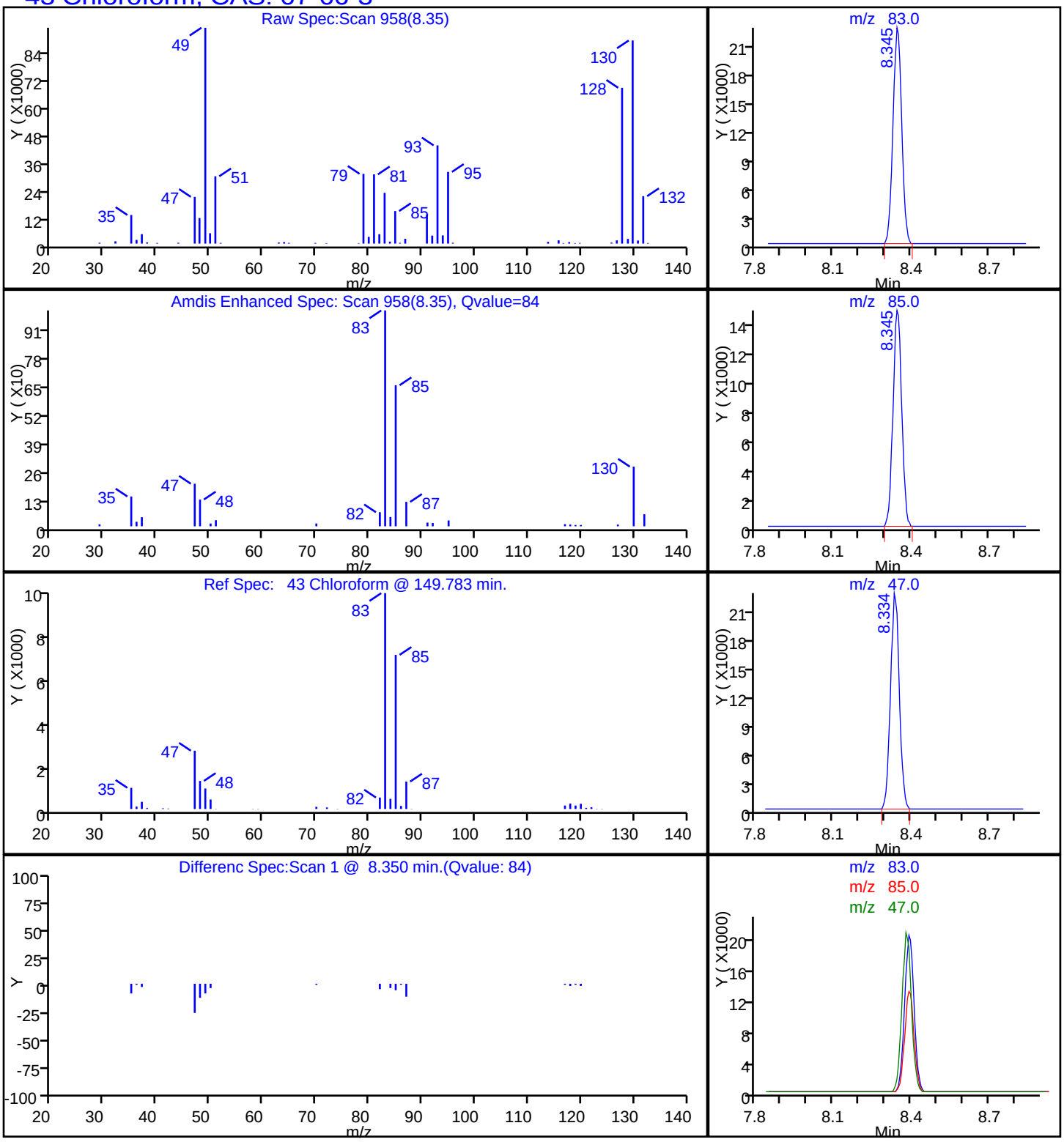
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date: 15-Mar-2014 03:32:30 Instrument ID: ME

Lims ID: 140-1041-A-15 Lab Sample ID: 140-1041-15

Client ID: PCV-IA3-B3

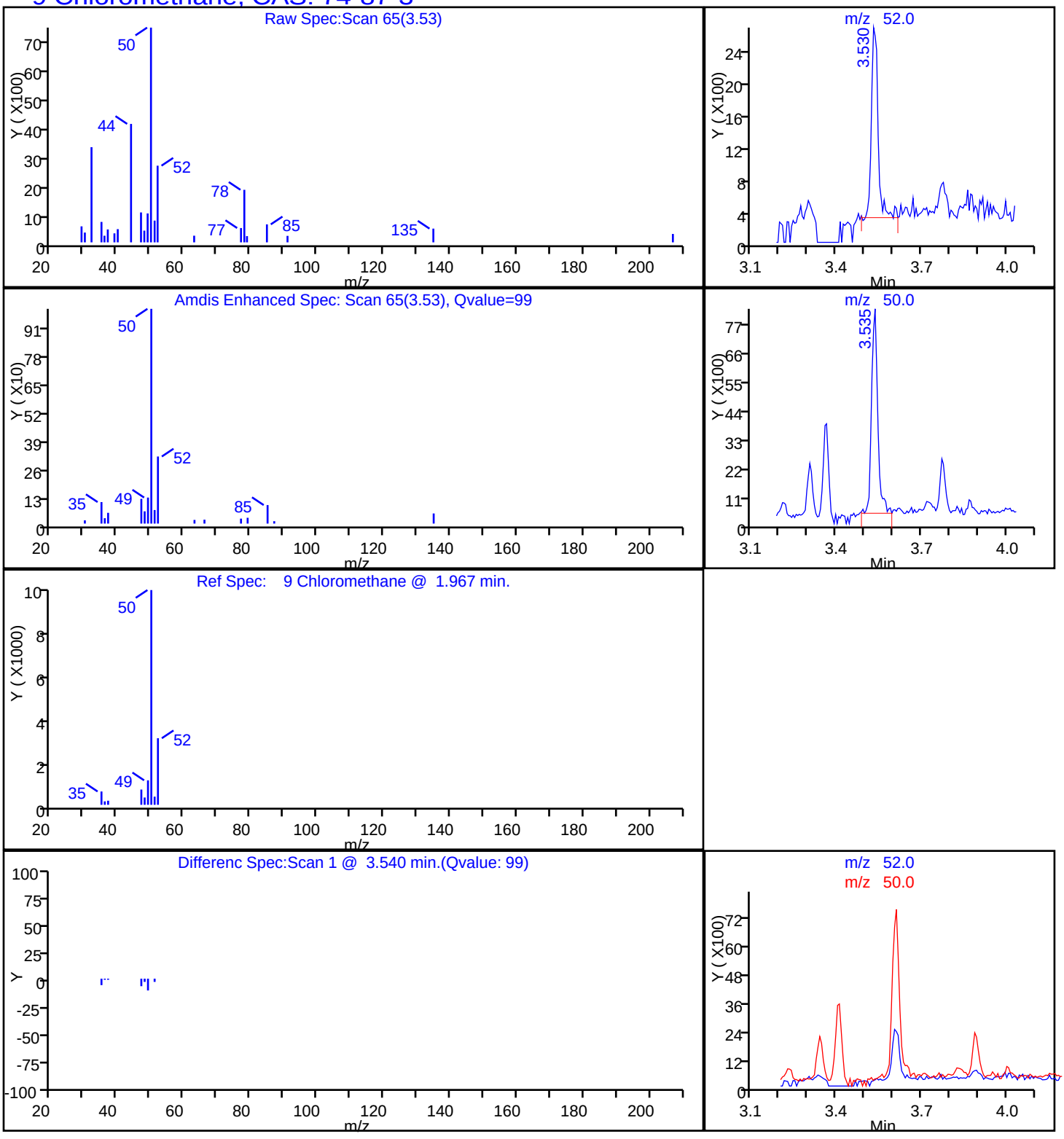
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

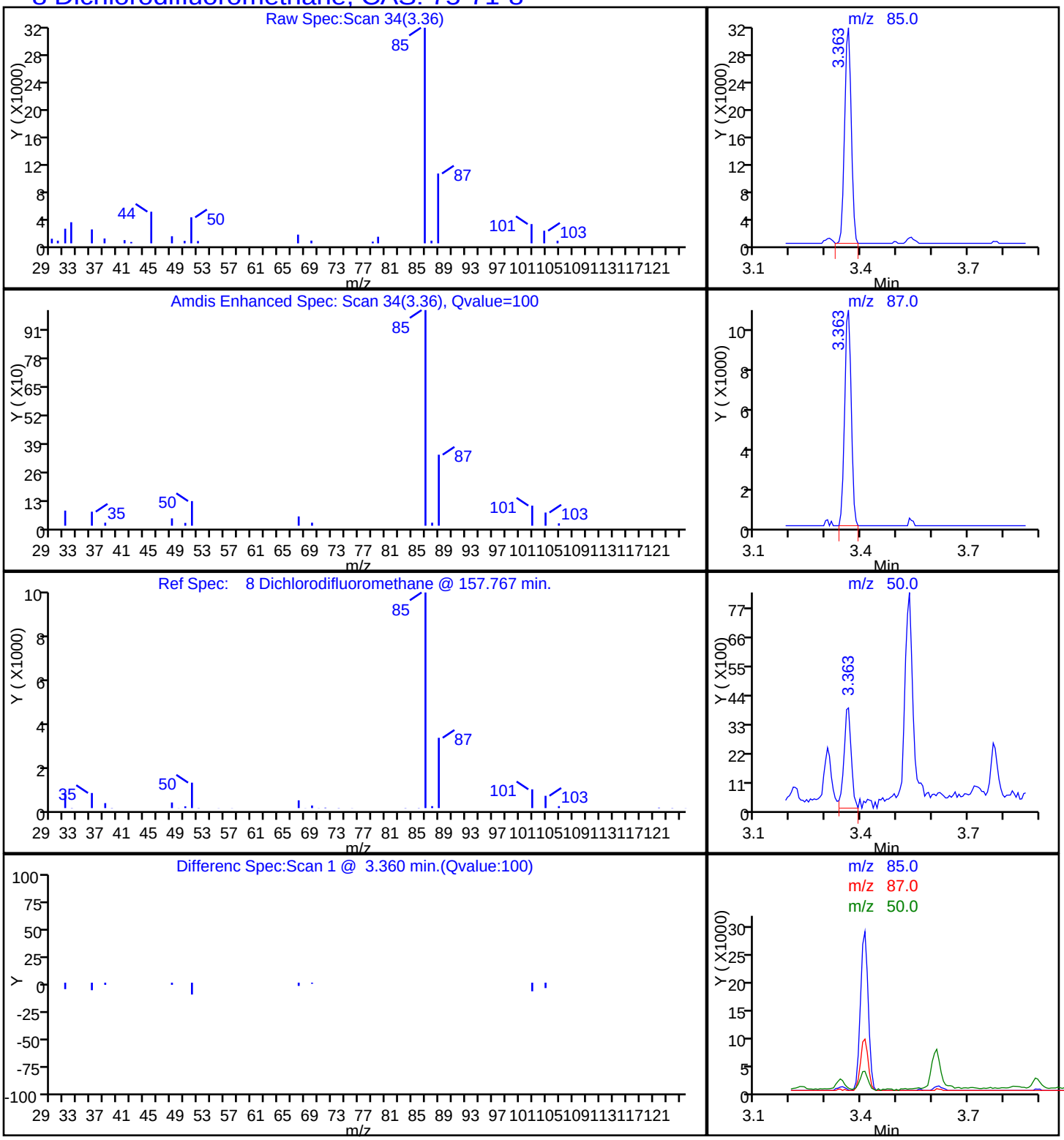
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D				
Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME		
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15		
Client ID:	PCV-IA3-B3				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



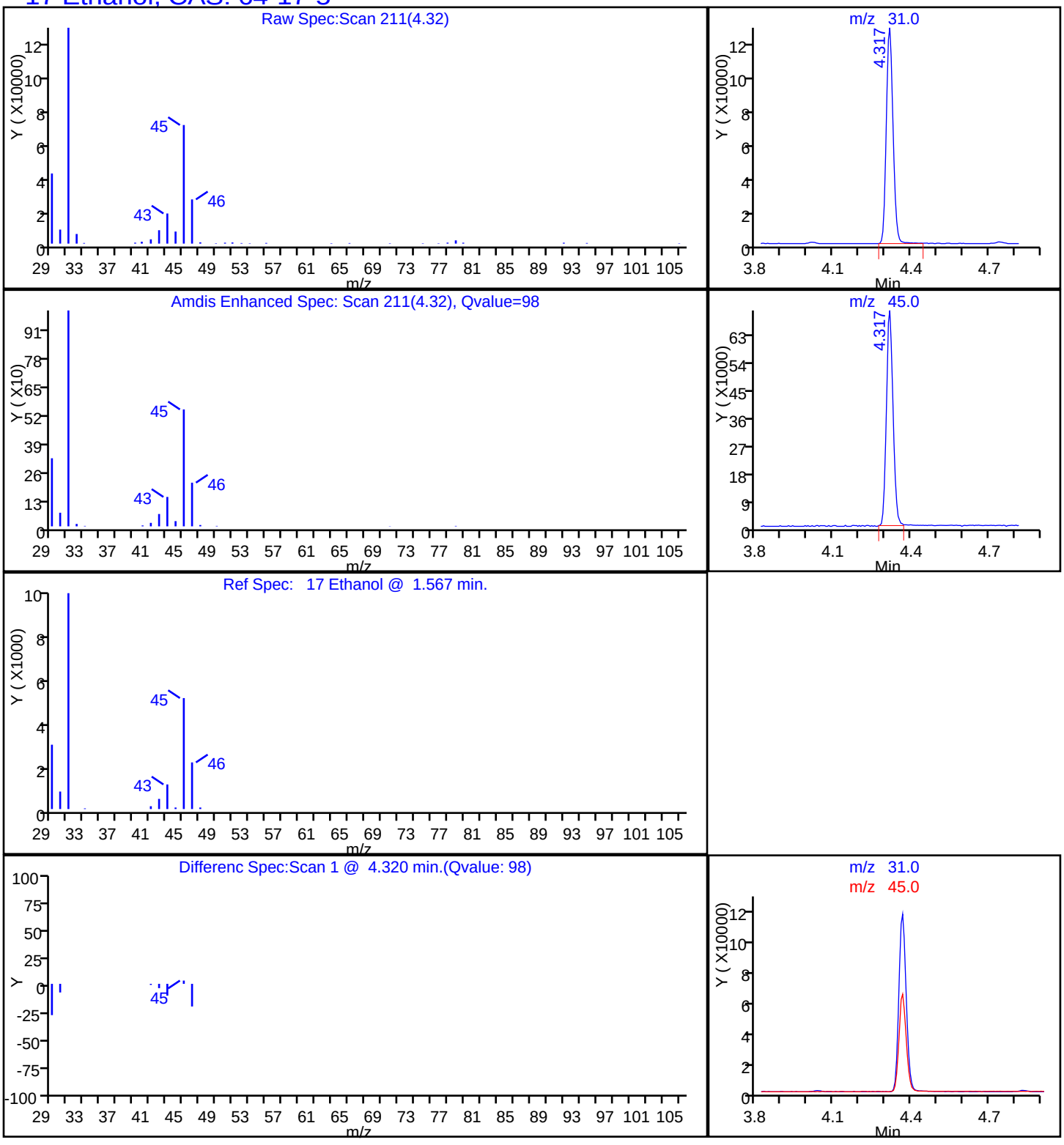
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



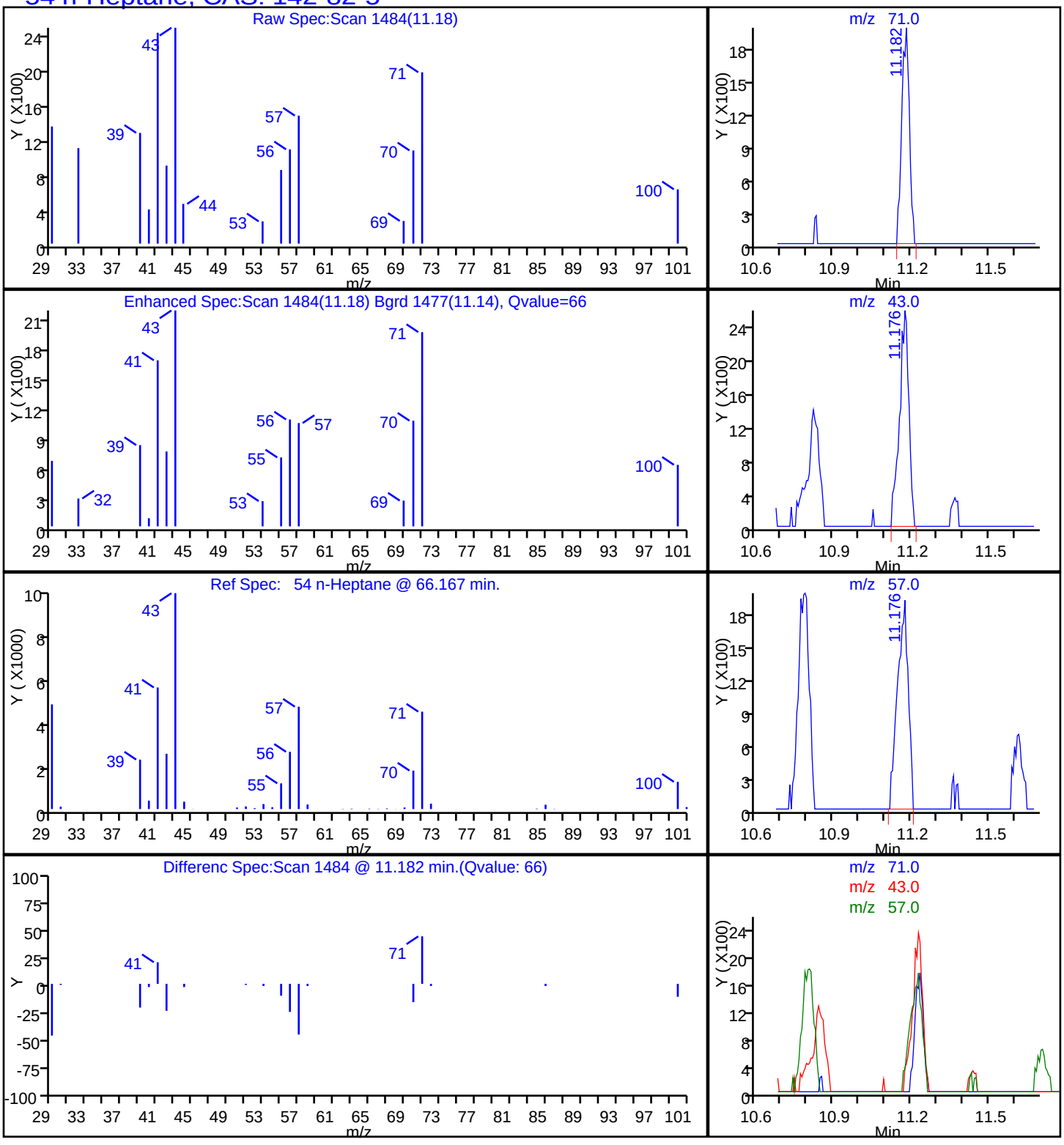
Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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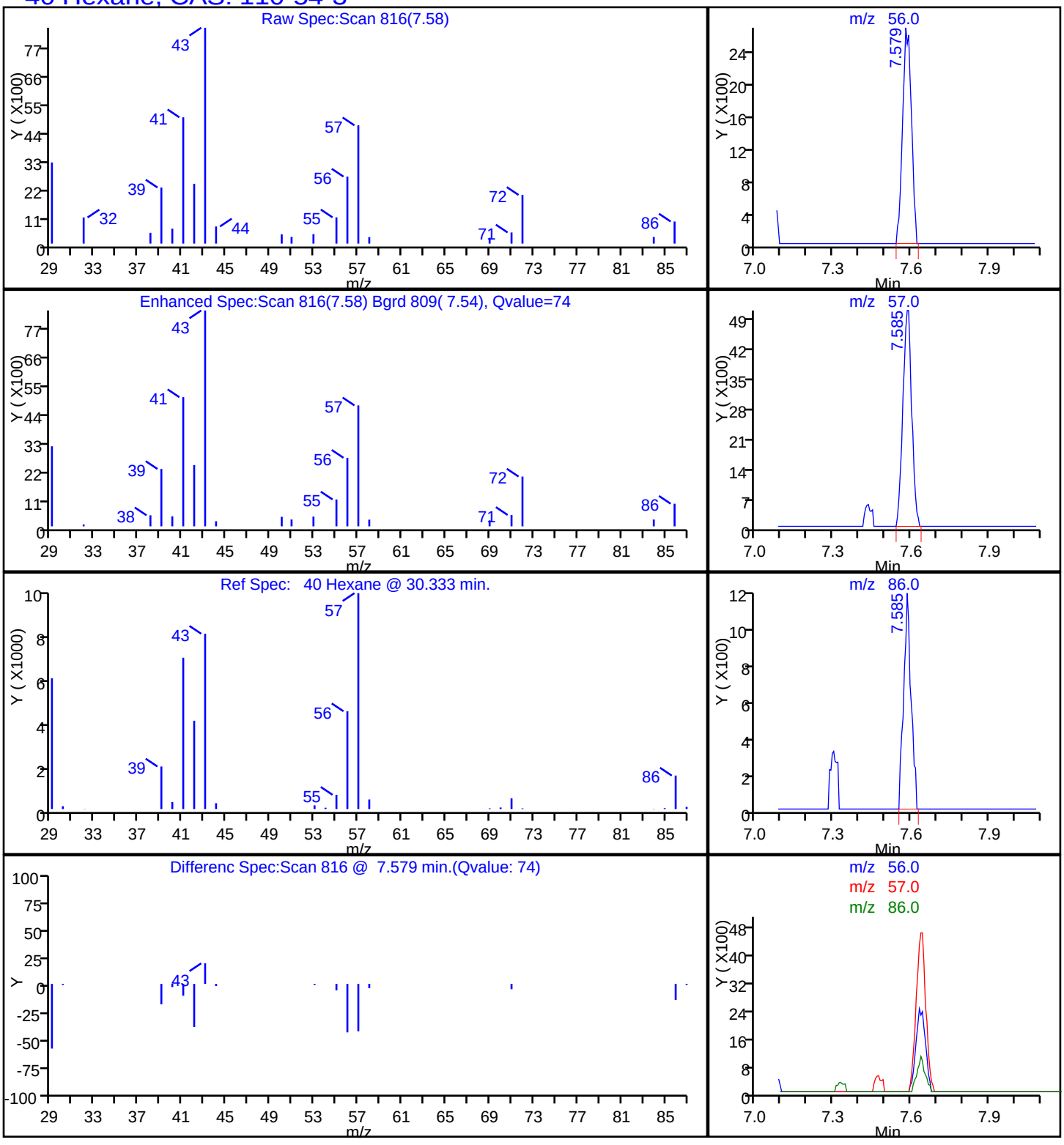
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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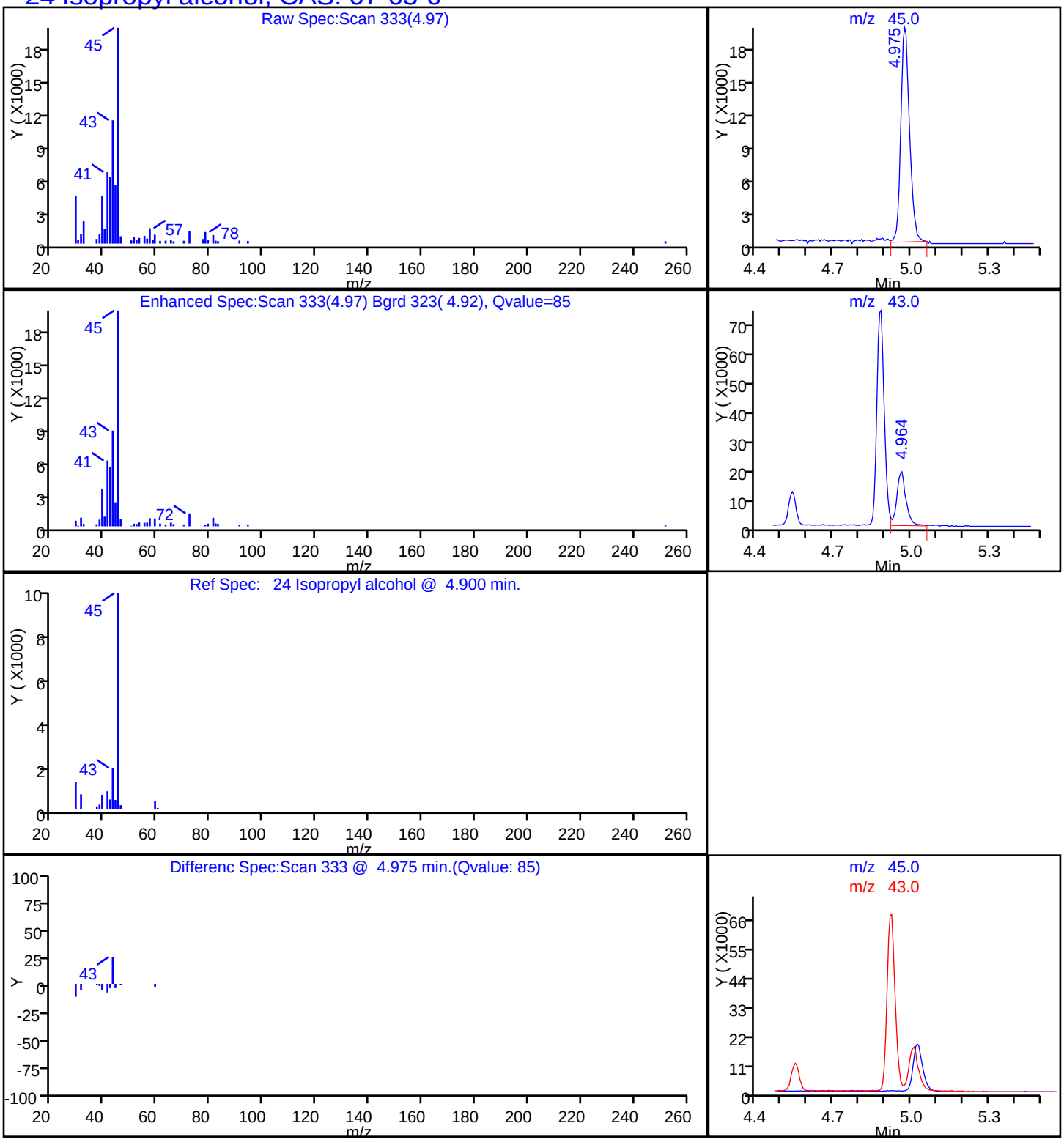
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D				
Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME		
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15		
Client ID:	PCV-IA3-B3				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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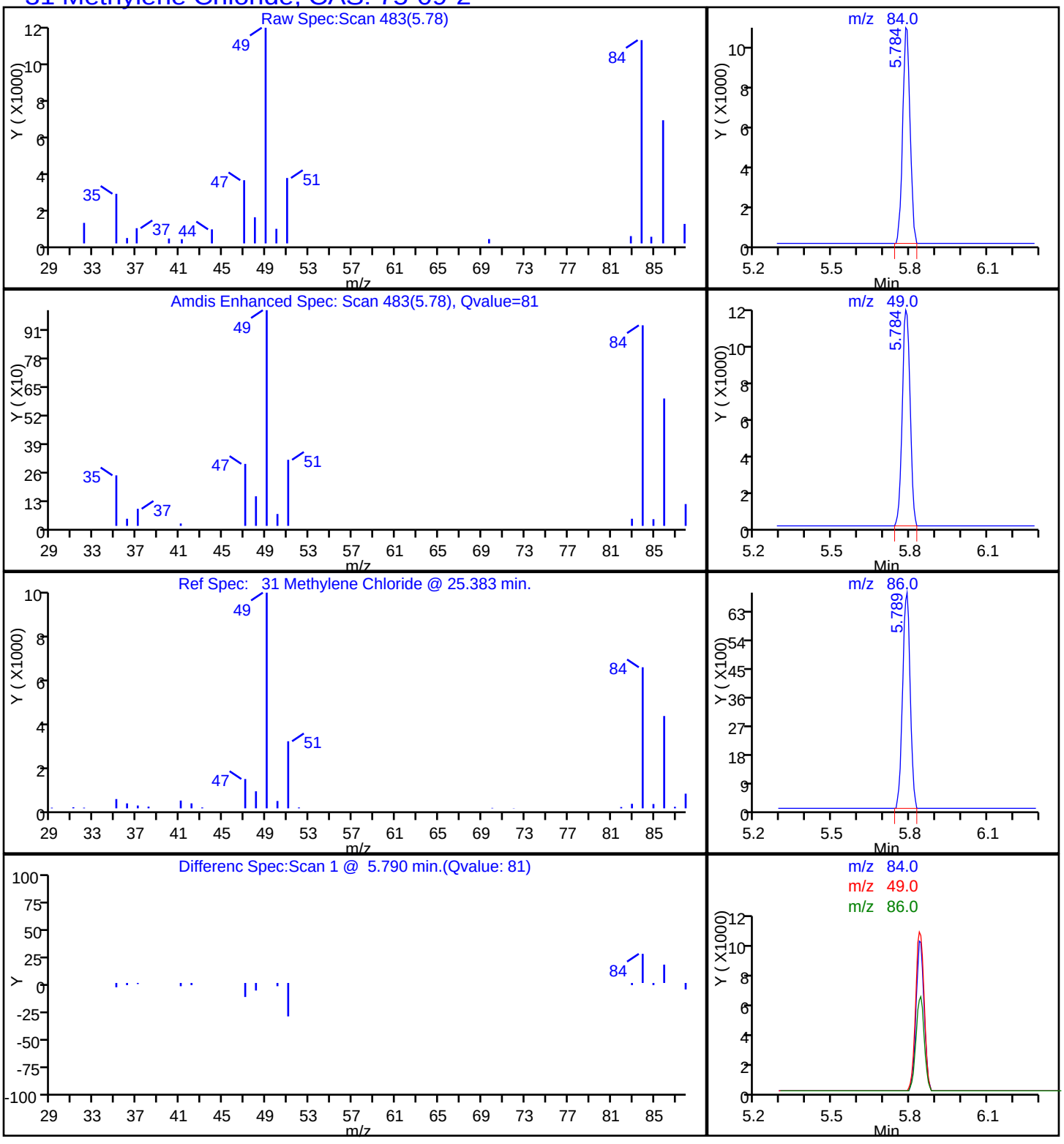
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



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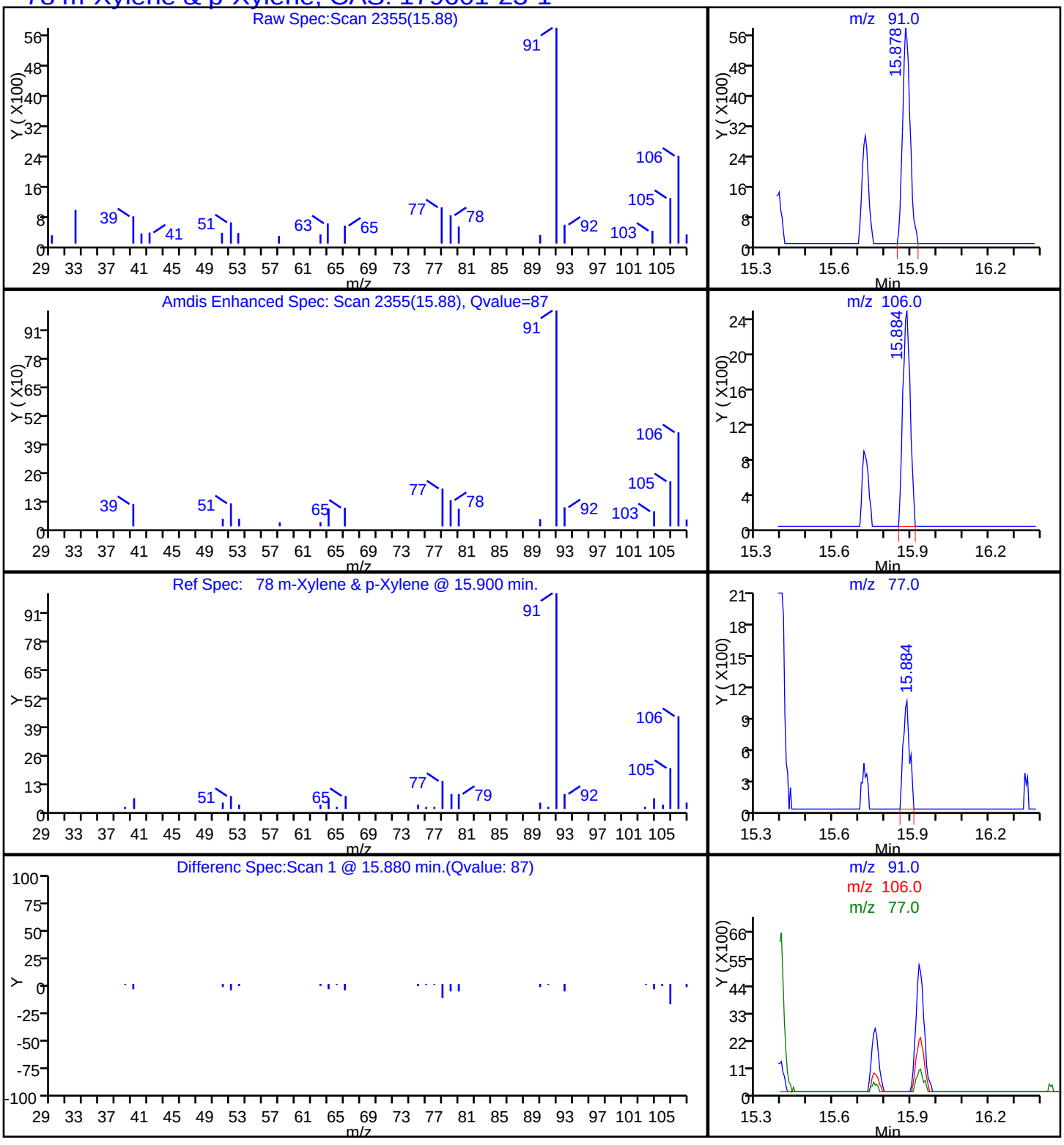
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 24-Mar-2014 15:51:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date: 15-Mar-2014 03:32:30 Instrument ID: ME

Lims ID: 140-1041-A-15 Lab Sample ID: 140-1041-15

Client ID: PCV-IA3-B3

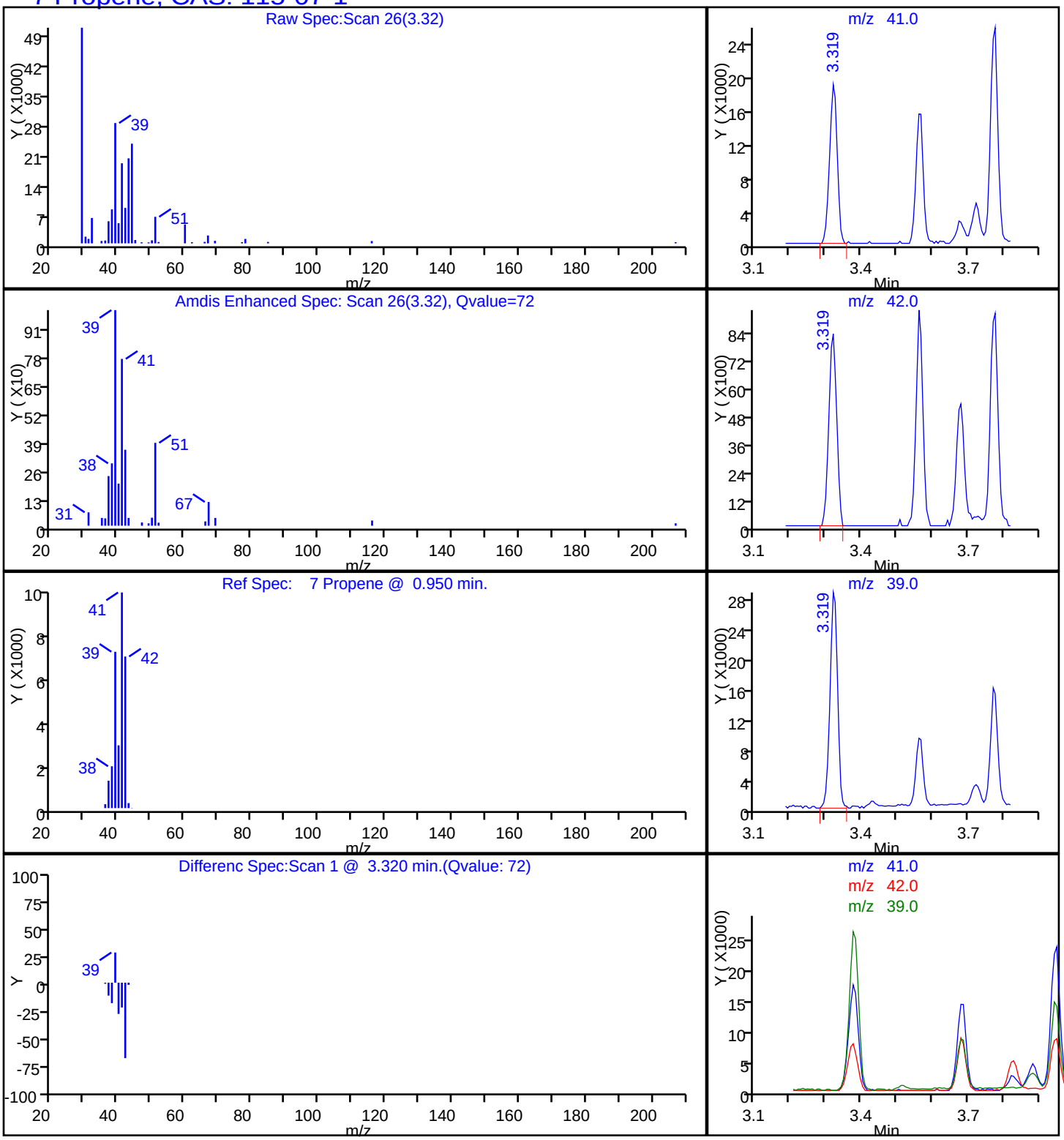
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



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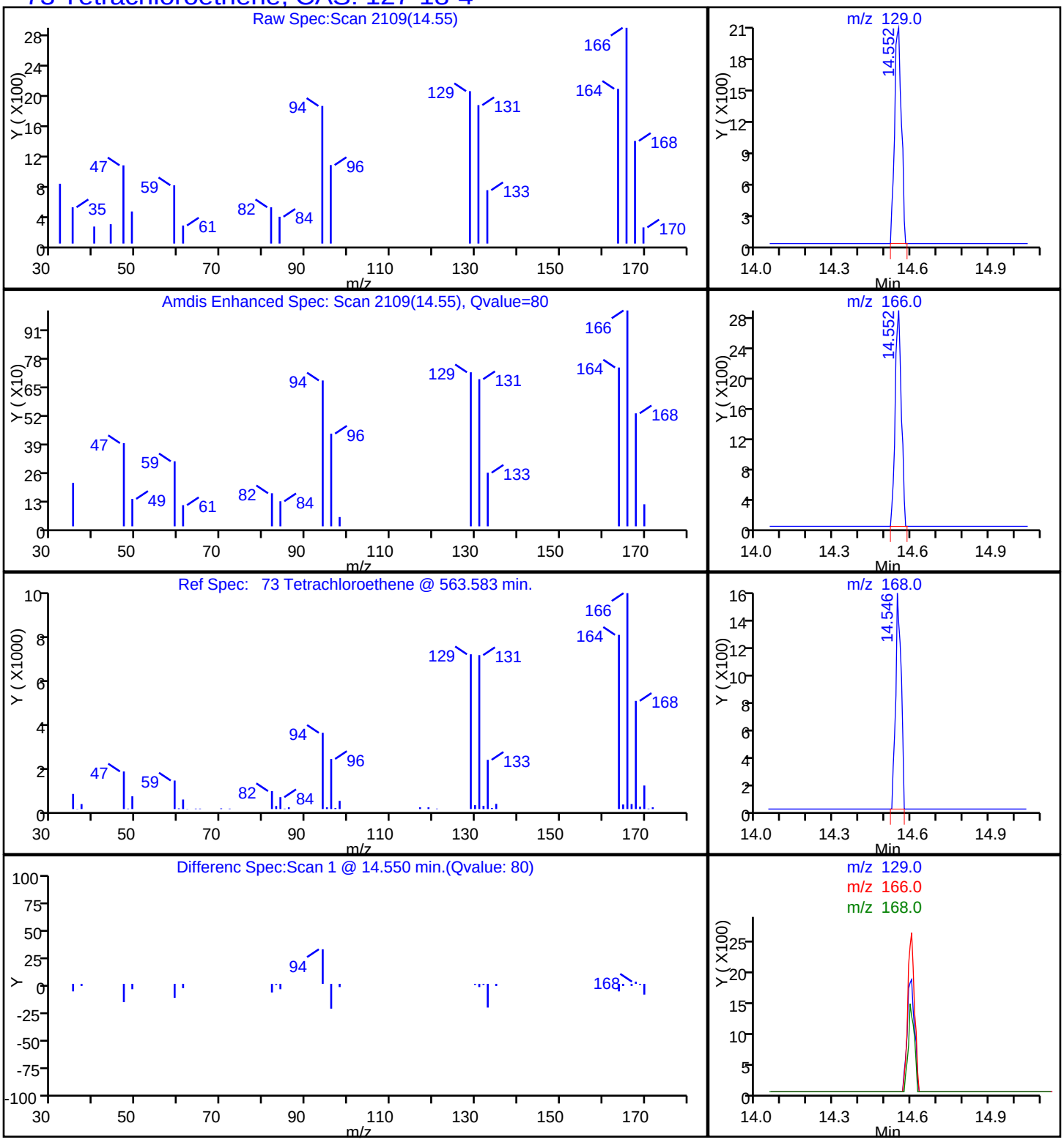
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15
Client ID:	PCV-IA3-B3		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
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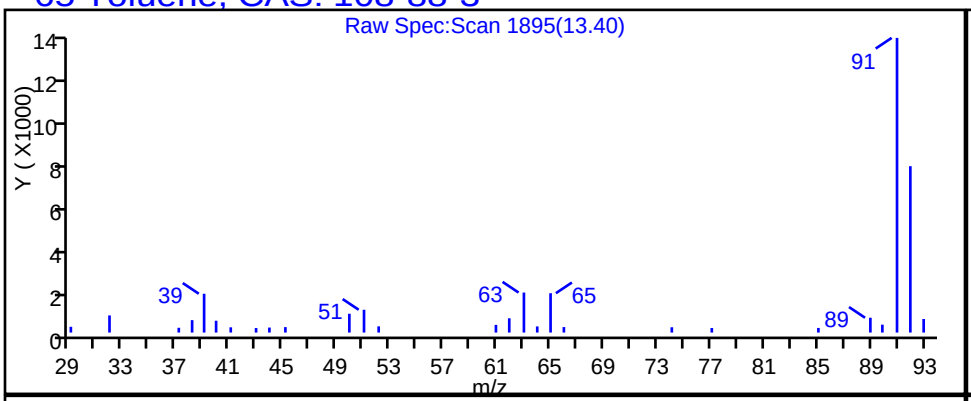
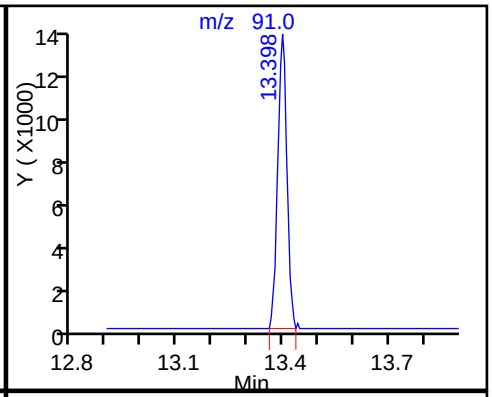
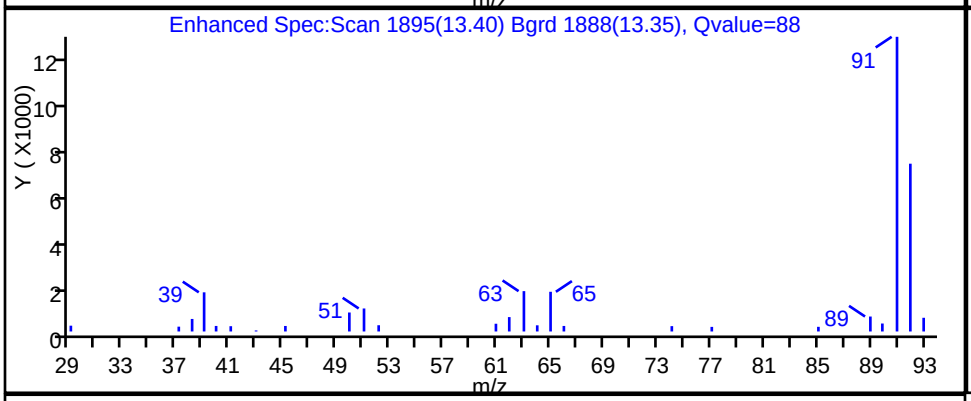
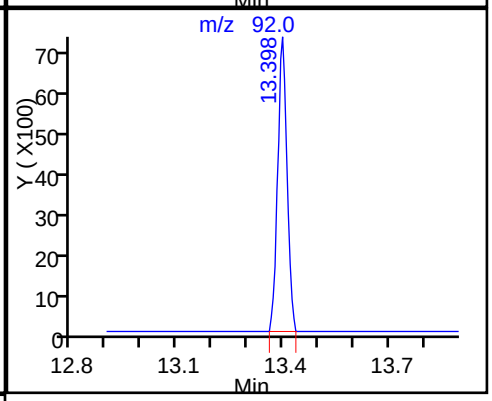
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

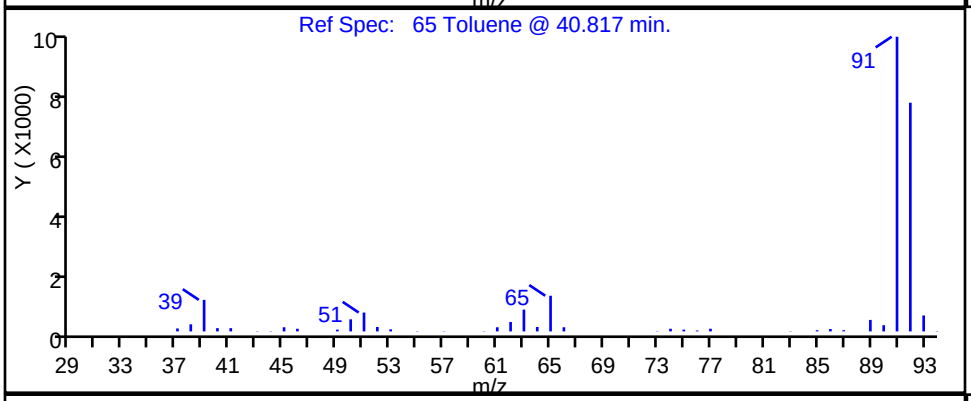
65 Toluene, CAS: 108-88-3

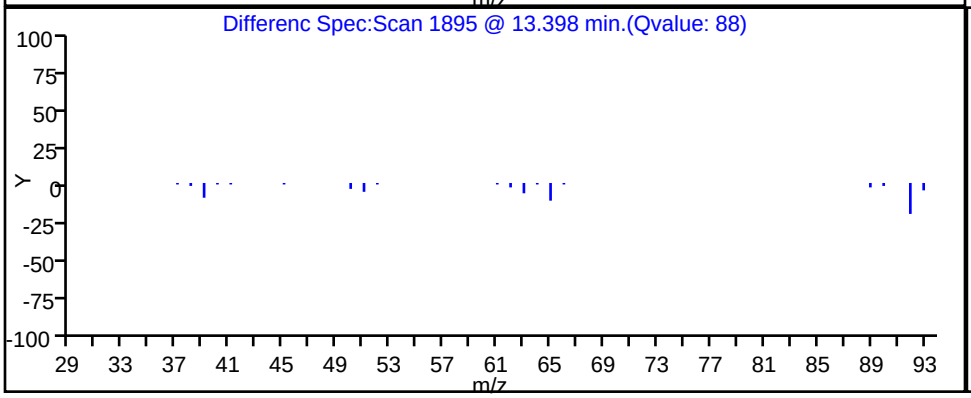


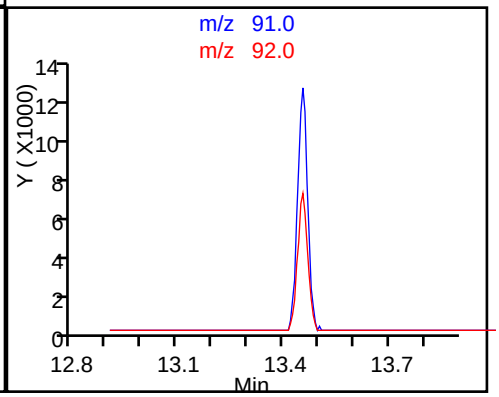












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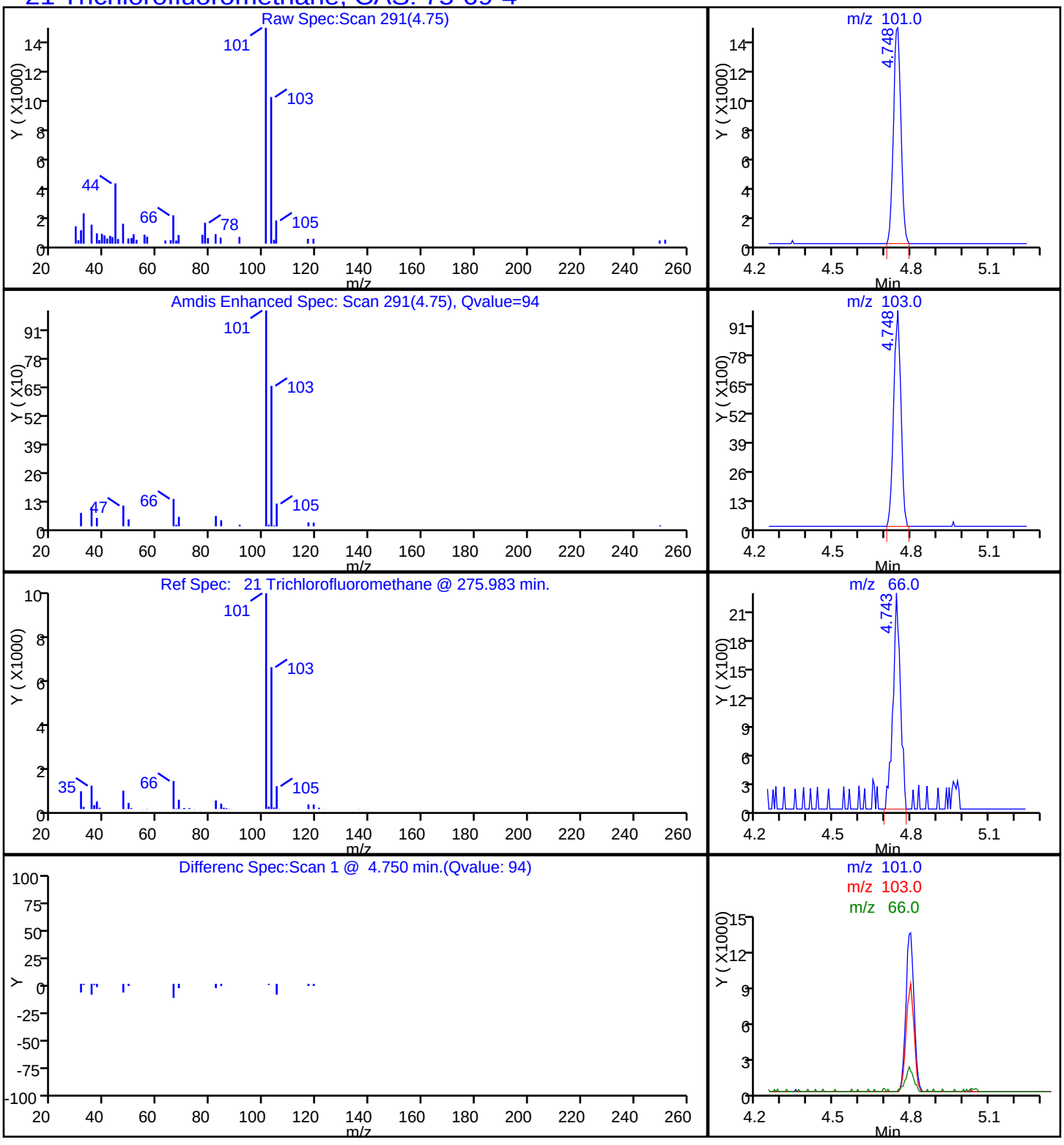
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P115.D

Injection Date:	15-Mar-2014 03:32:30	Instrument ID:	ME		
Lims ID:	140-1041-A-15	Lab Sample ID:	140-1041-15		
Client ID:	PCV-IA3-B3				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.073	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.46	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.60		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.068	J	0.50	0.045
67-64-1	Acetone	58.08	5.5		5.0	1.4
71-43-2	Benzene	78.11	0.17	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.47	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	15		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.36	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.042	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.21		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.56	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.4	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.28	J	2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	0.53	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.97	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	29		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.39	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.5	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.2	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.28	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.77		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: PCV-AMB4 Lab Sample ID: 140-1041-17

Matrix: Air Lab File ID: EC14P201.D

Analysis Method: TO-15 Date Collected: 03/11/2014 16:39

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D
Lims ID: 140-1041-A-17 Lab Sample ID: 140-1041-17
Client ID: PCV-AMB4
Sample Type: Client
Inject. Date: 15-Mar-2014 05:03:30 ALS Bottle#: 1 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1041-a-16
Misc. Info.: E031414,TO155,,140-0000522-022
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:36:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:36:52

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	188271	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	945049	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	827600	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	769984	4.25	
	8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	41776	0.2006	
	9 Chloromethane	52	3.524	3.530	-0.006	96	3121	0.1877	
	17 Ethanol	31	4.301	4.317	-0.016	98	116461	6.18	
	19 2-Methylbutane	43	4.533	4.538	-0.005	87	15929	0.2416	
	21 Trichlorofluoromethane	101	4.743	4.748	-0.005	93	24552	0.1175	
	23 Acetone	58	4.872	4.883	-0.011	93	63199	2.22	
	24 Isopropyl alcohol	45	4.964	4.975	-0.011	89	41243	0.5618	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	63	3797	0.0294	
	31 Methylene Chloride	84	5.778	5.795	-0.017	74	7693	0.1430	
	39 2-Butanone (MEK)	72	7.579	7.585	-0.006	94	5682	0.1844	
	40 Hexane	56	7.574	7.590	-0.016	49	2231	0.0445	
	48 Benzene	78	9.979	9.995	-0.016	89	12658	0.0666	
	50 Carbon tetrachloride	117	10.006	10.017	-0.011	87	5062	0.0277	
	54 n-Heptane	71	11.176	11.182	-0.006	30	1372	0.0191	
	62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	76	3050	0.0272	
	65 Toluene	91	13.398	13.403	-0.005	86	18223	0.0822	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	64	1570	0.0166	

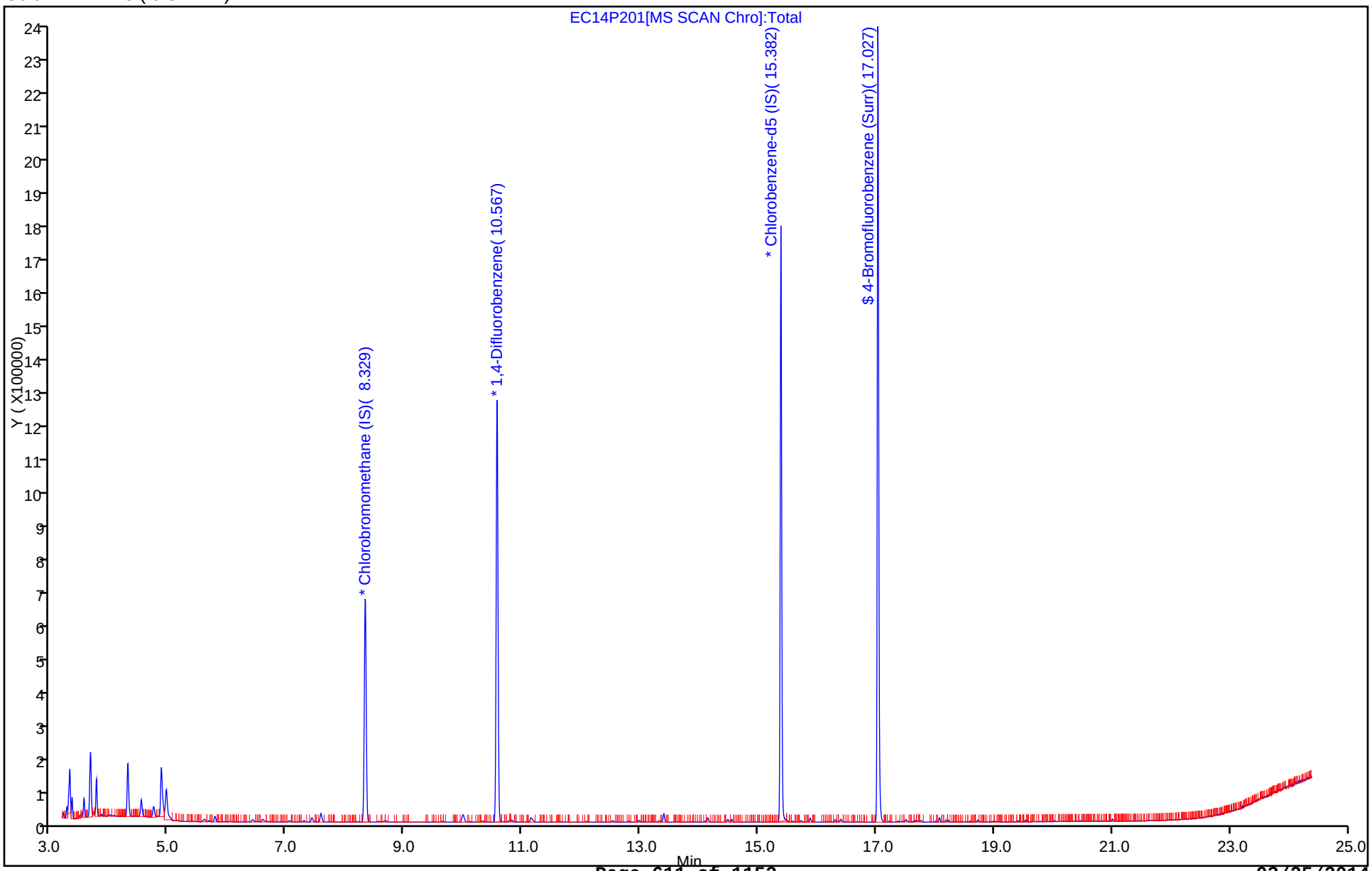
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17	Worklist Smp#:	22
Client ID:	PCV-AMB4				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

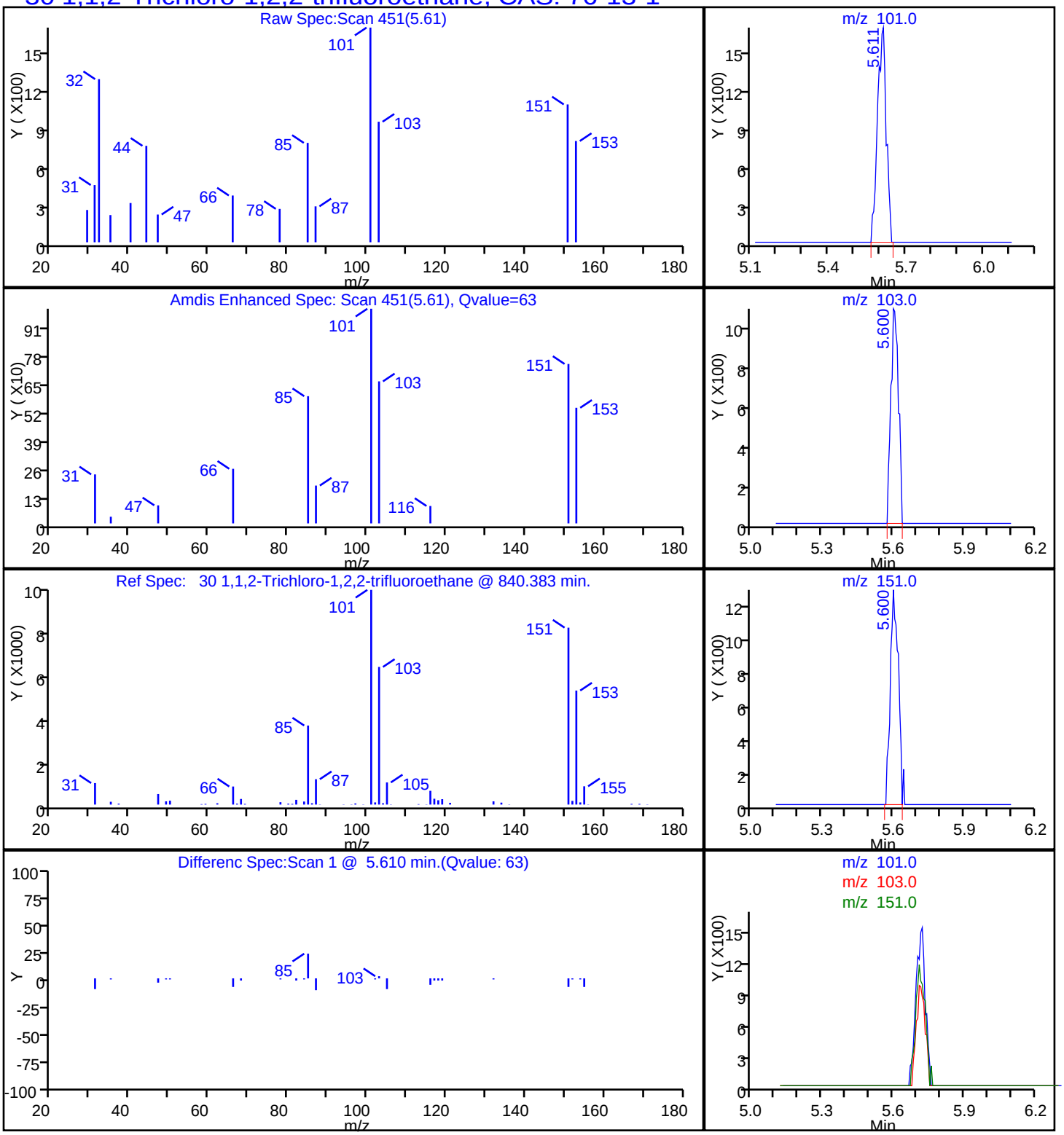
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D				
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17		
Client ID:	PCV-AMB4				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

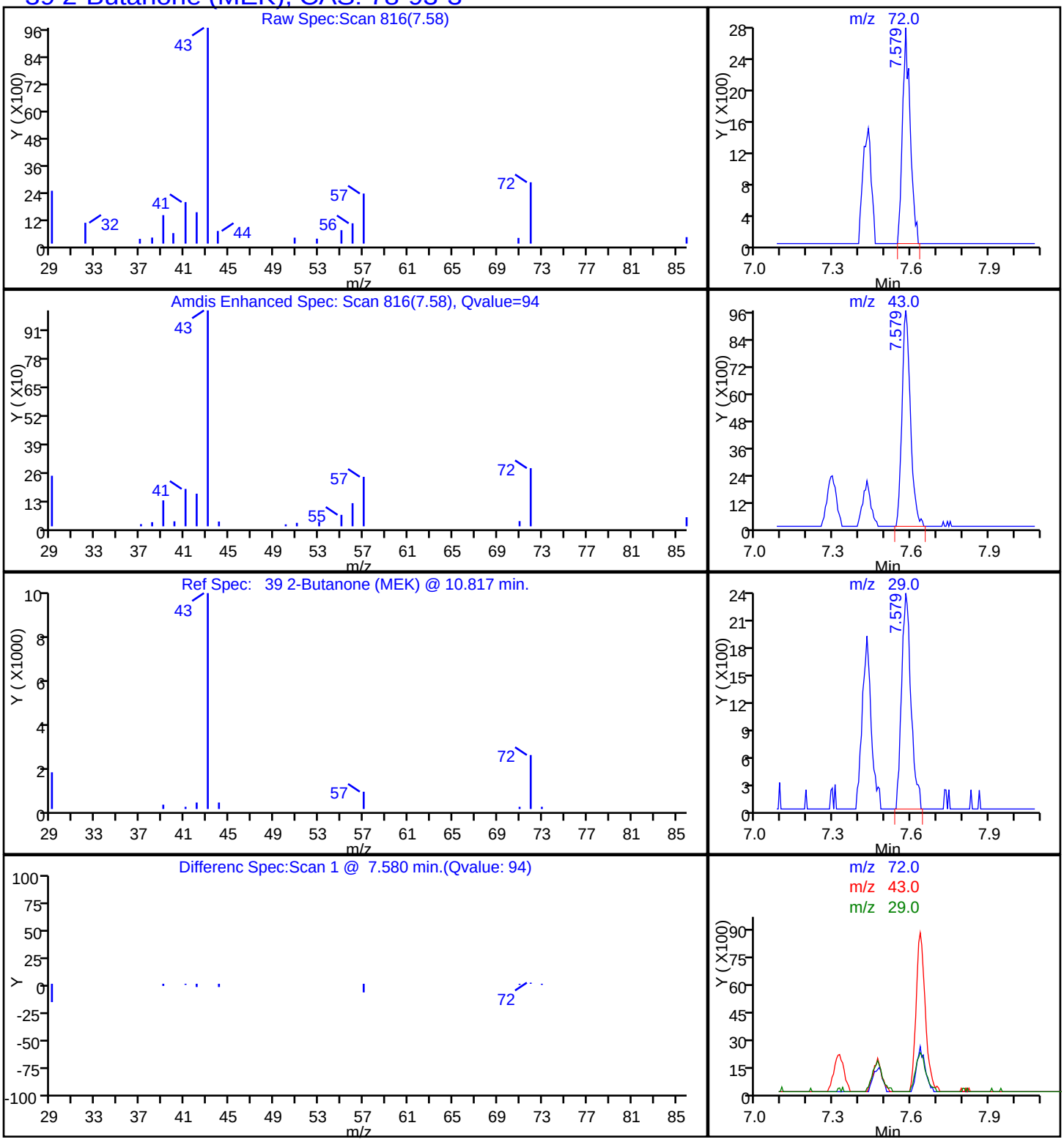
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



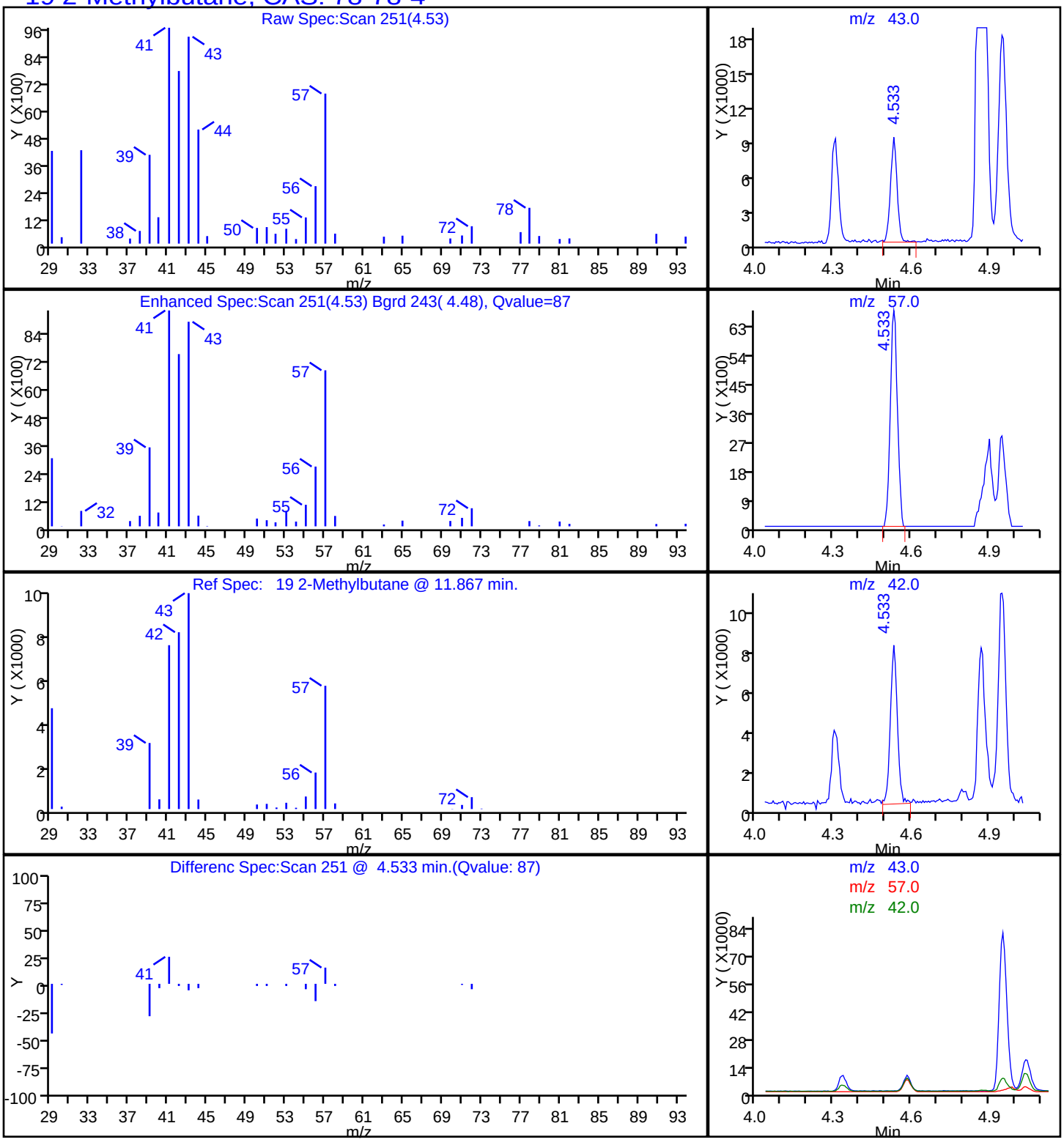
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

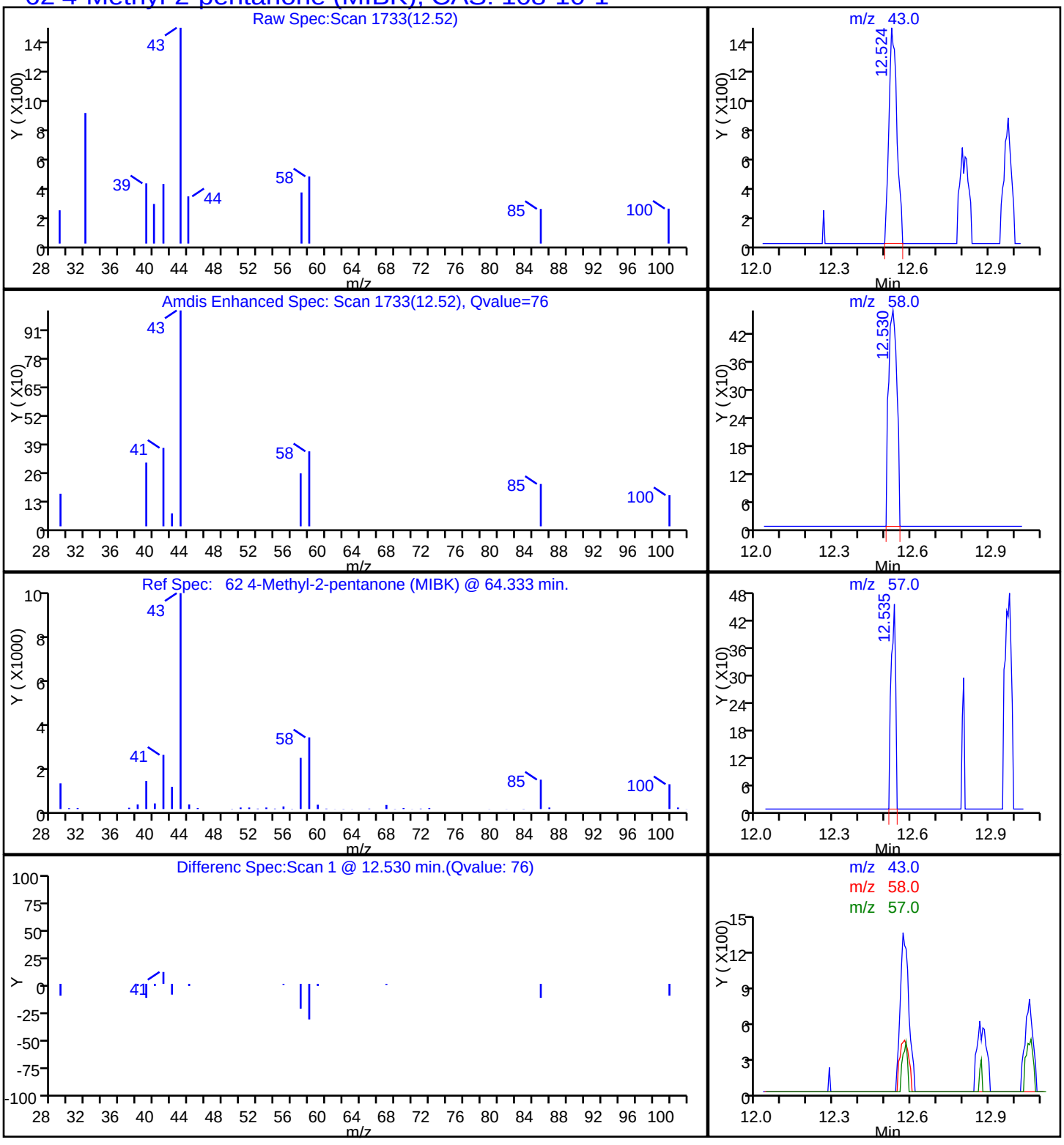


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D				
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17		
Client ID:	PCV-AMB4				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

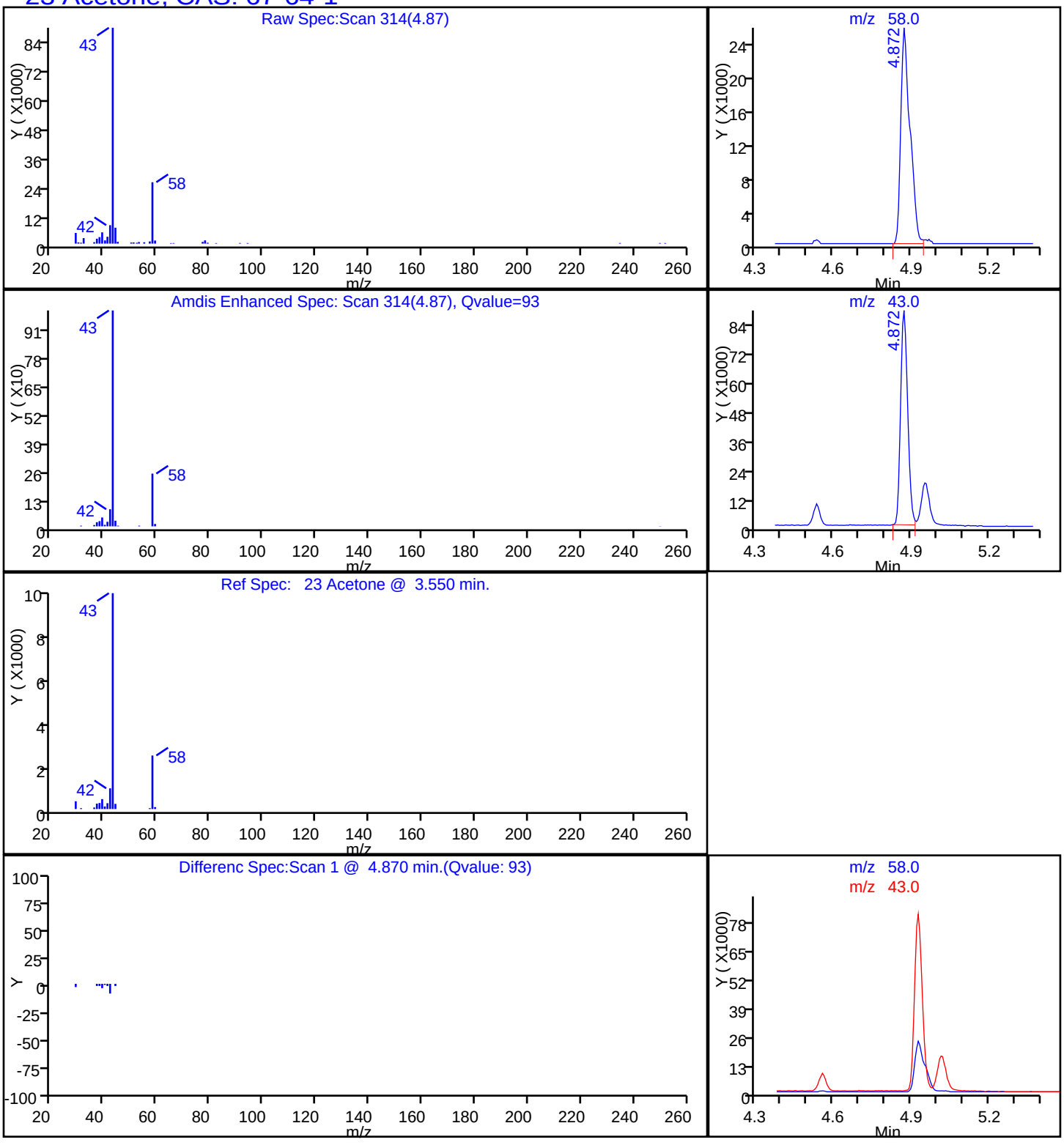


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

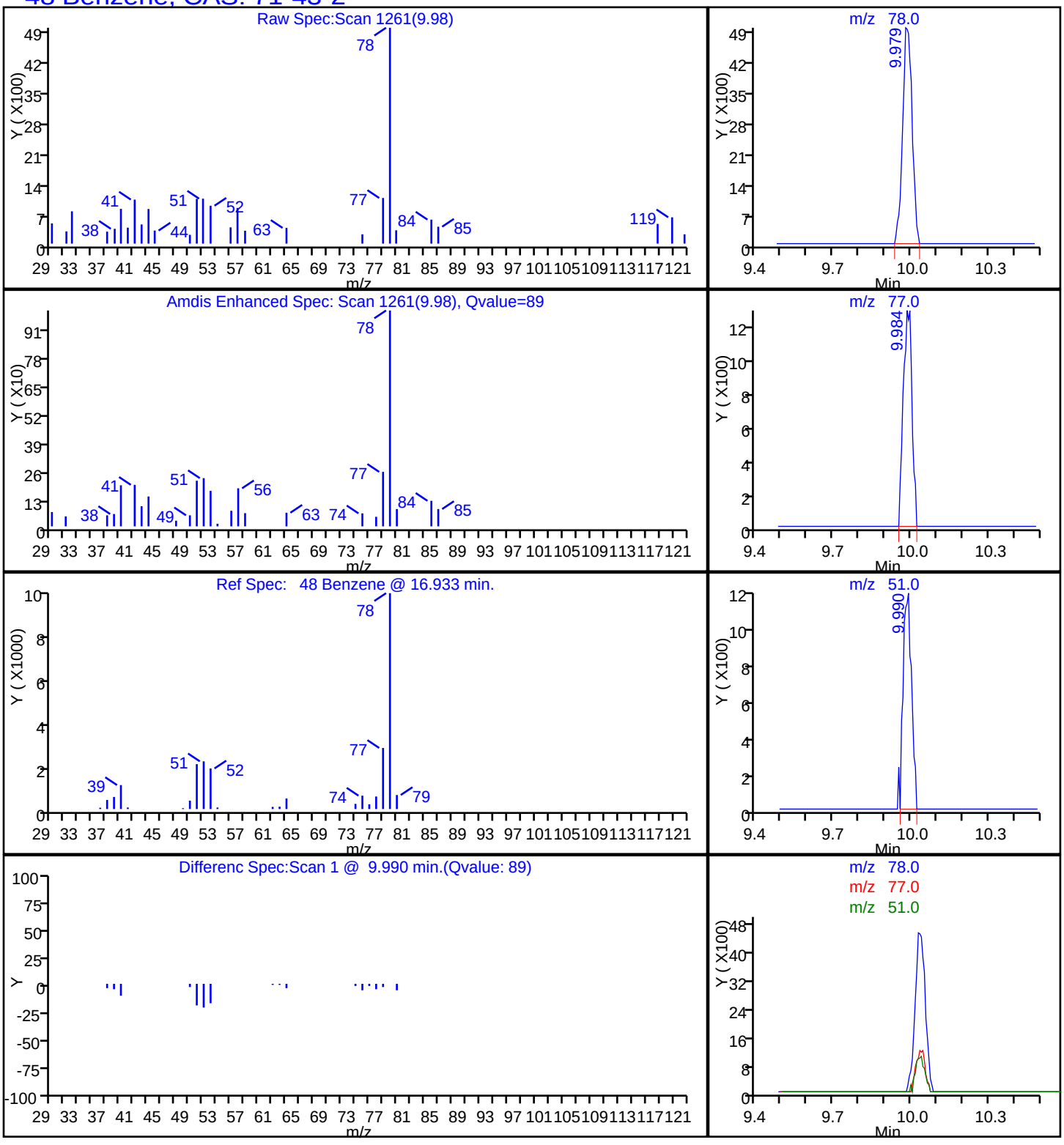


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2

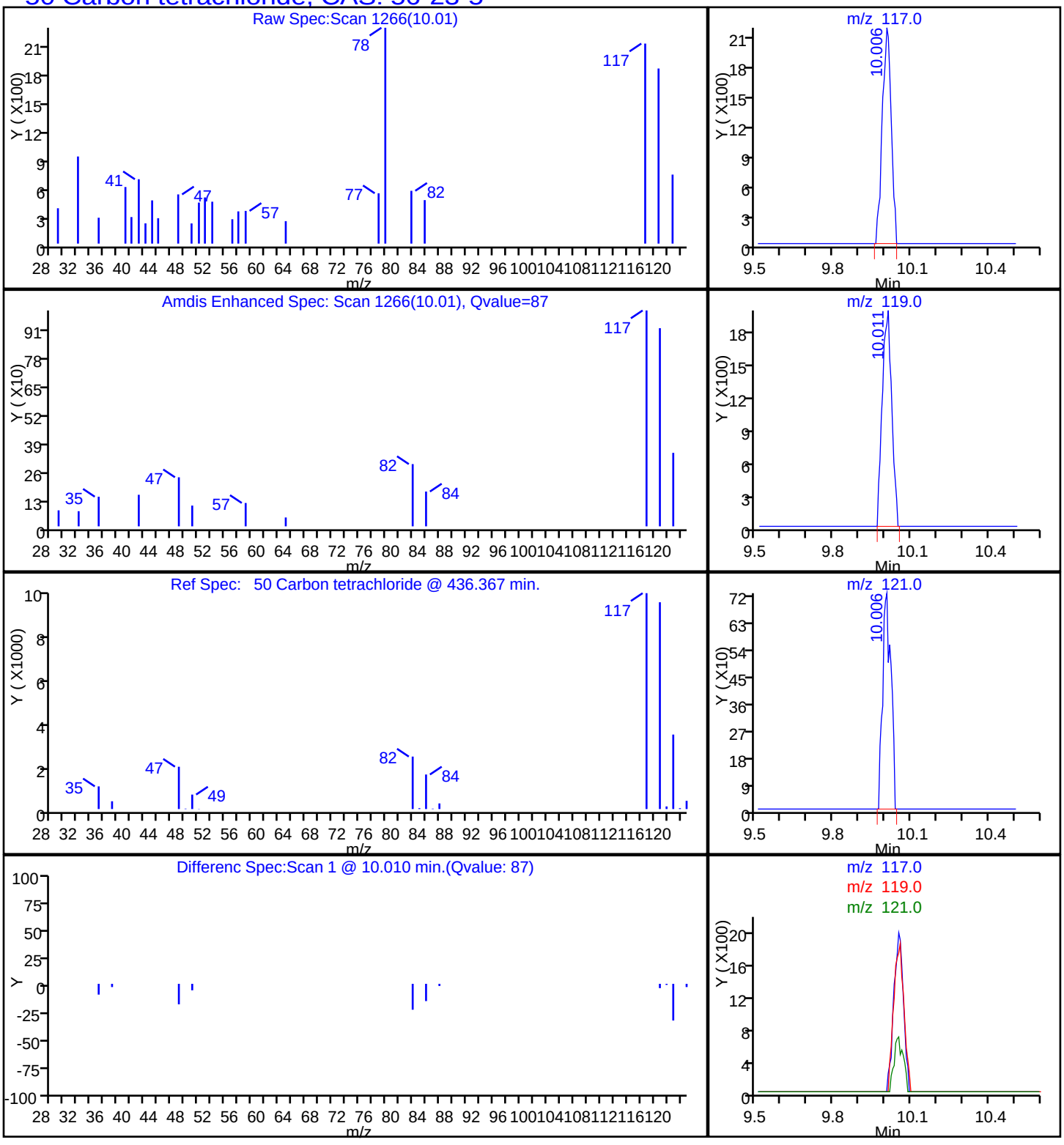


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

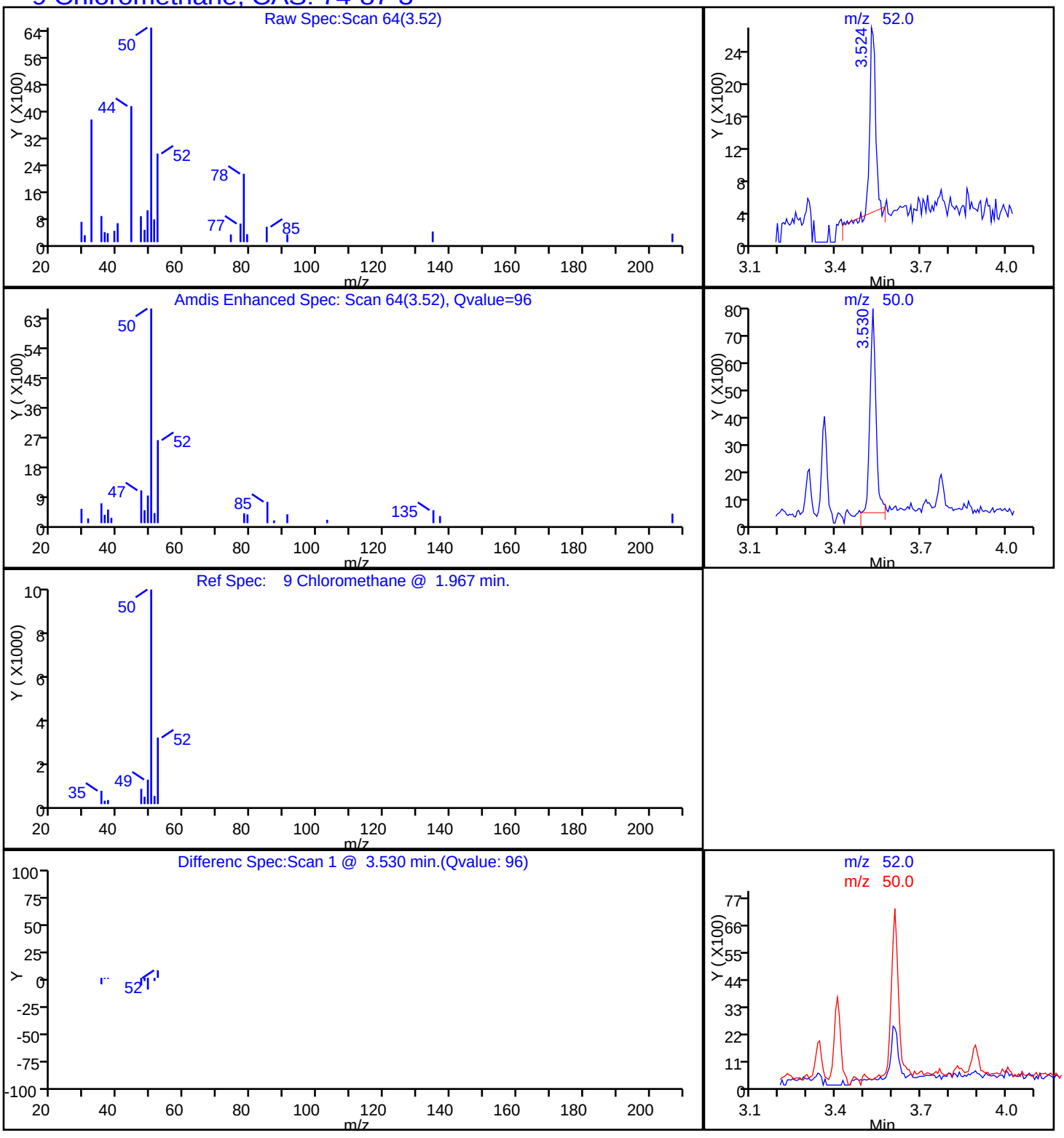
50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3

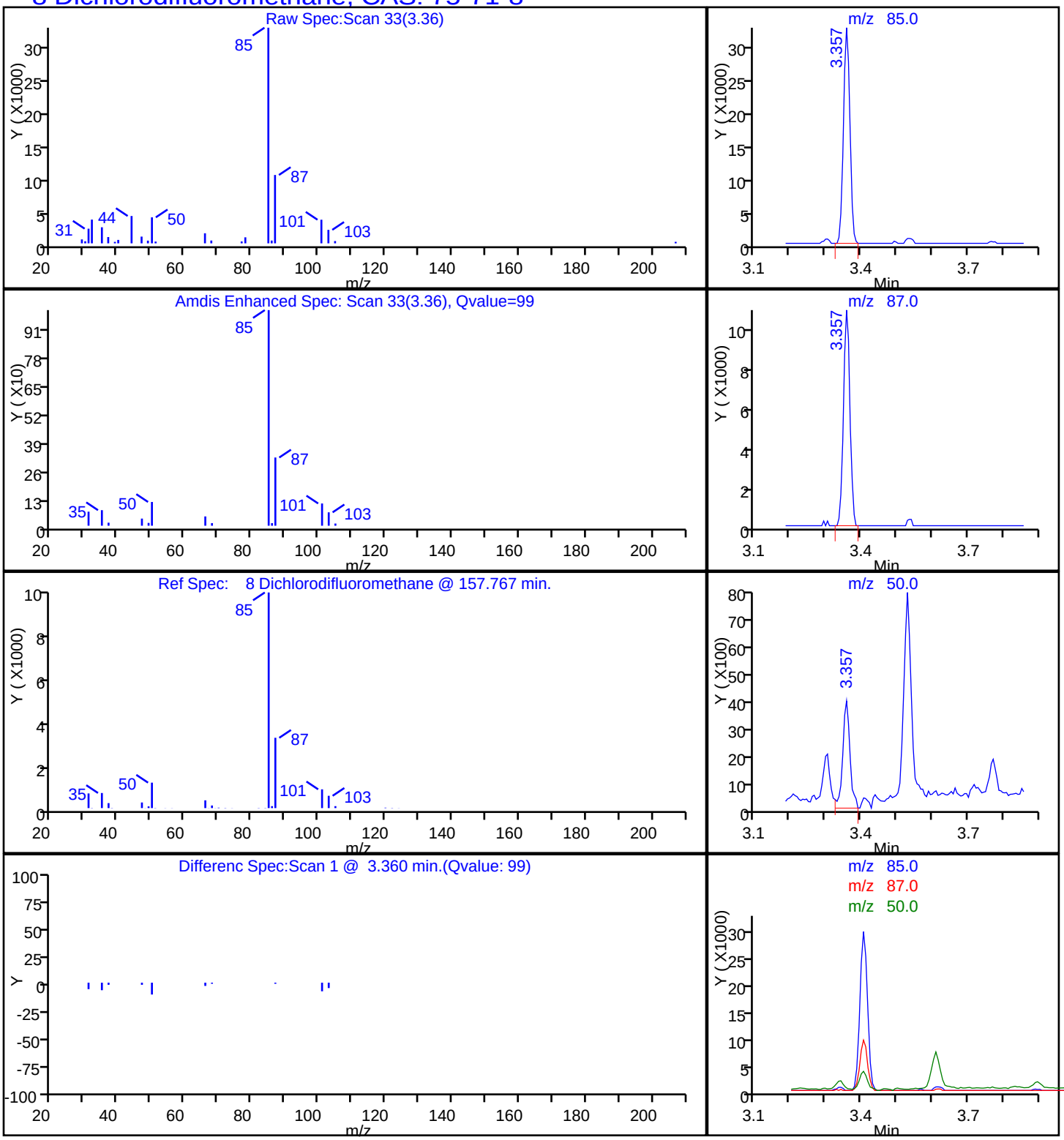


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D				
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17		
Client ID:	PCV-AMB4				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



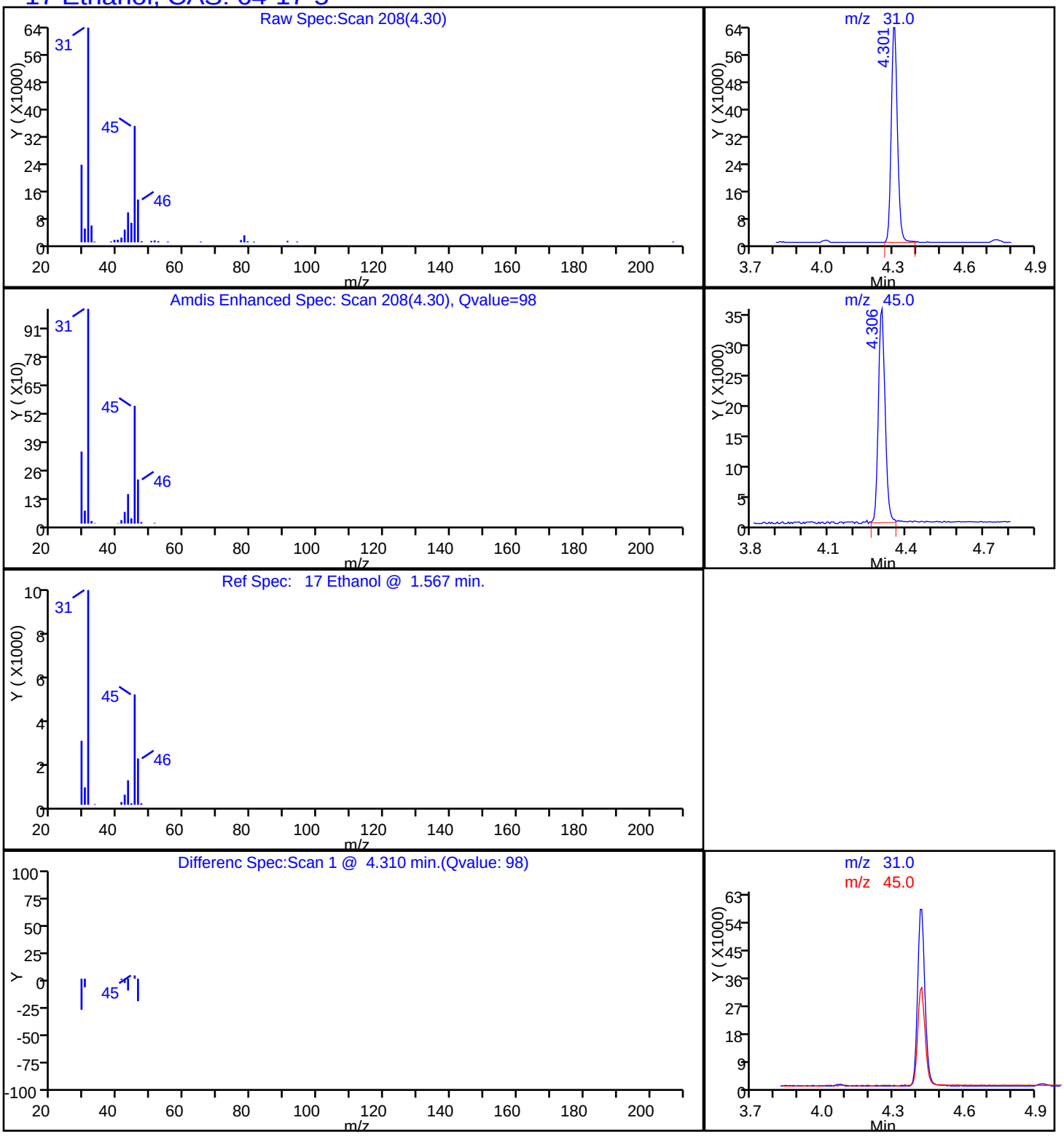
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



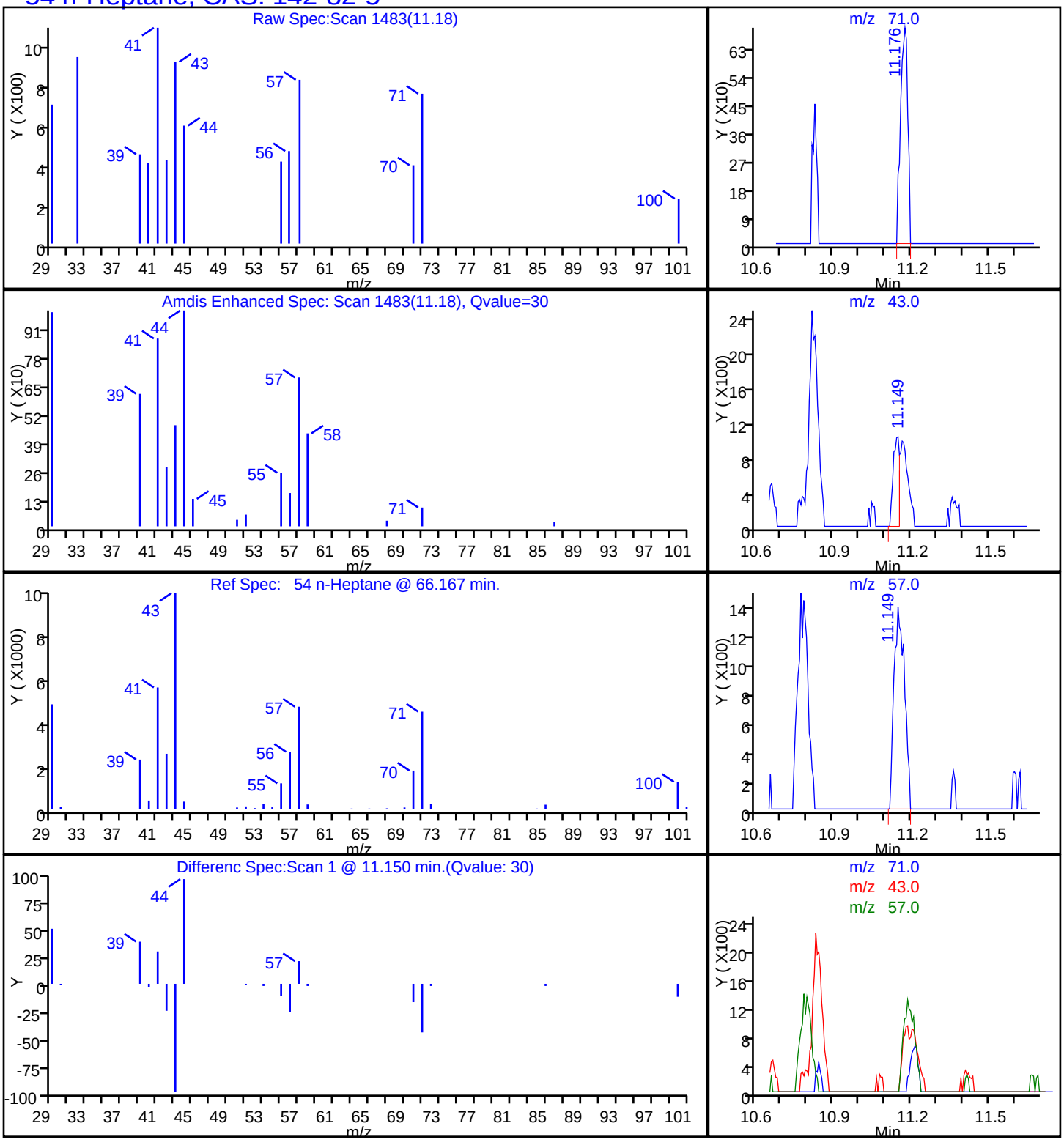
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

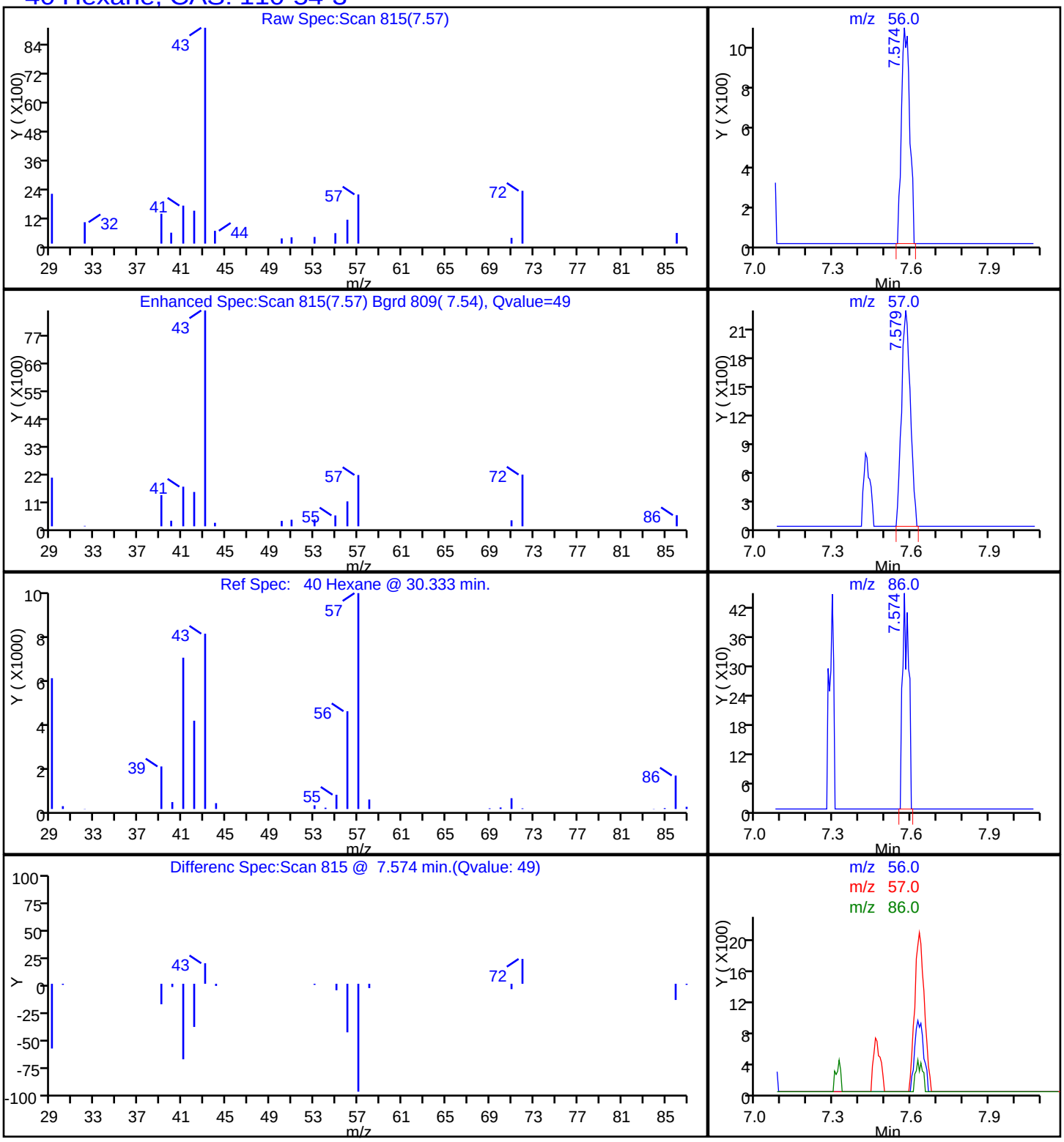


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D		
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



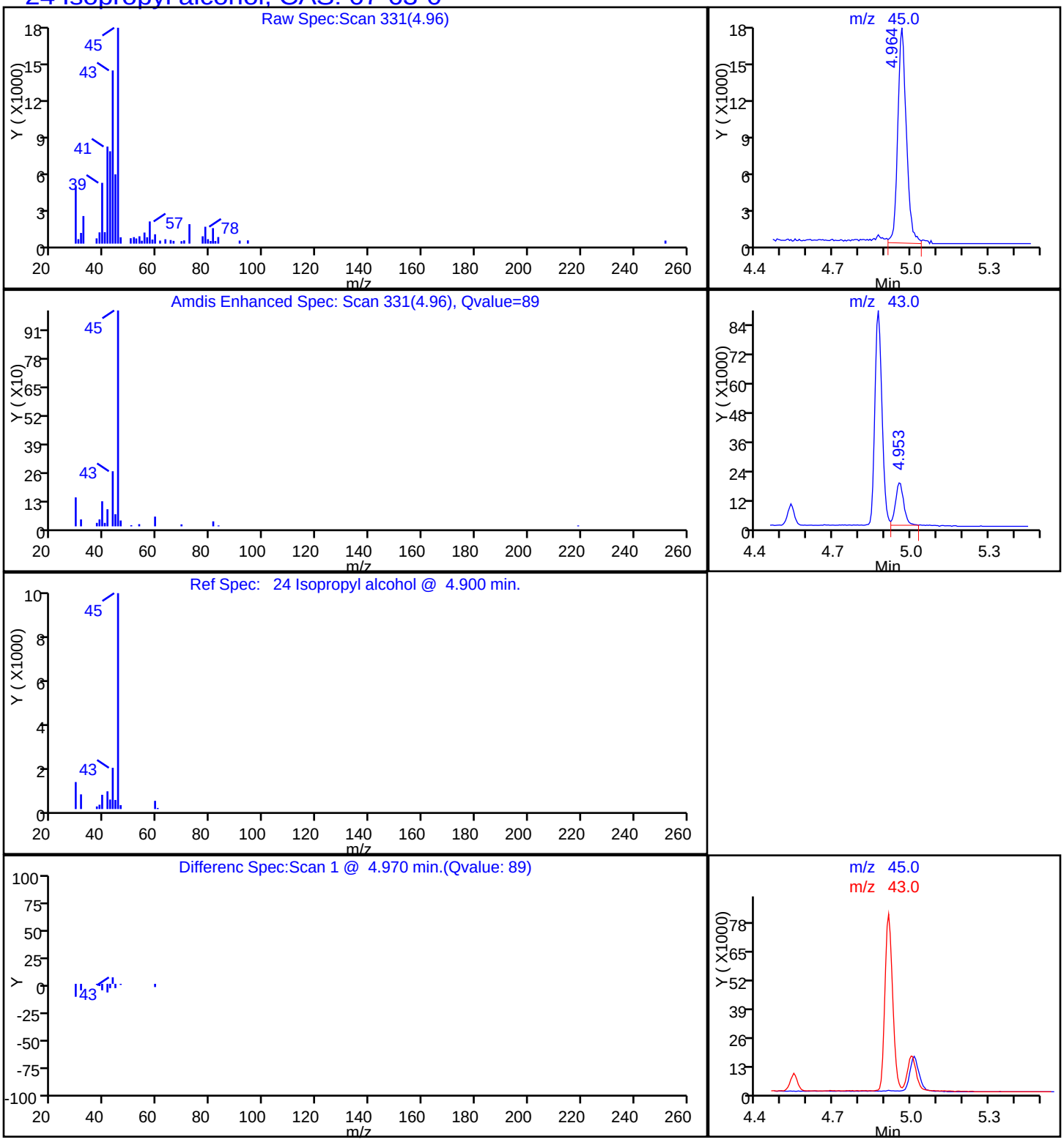
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



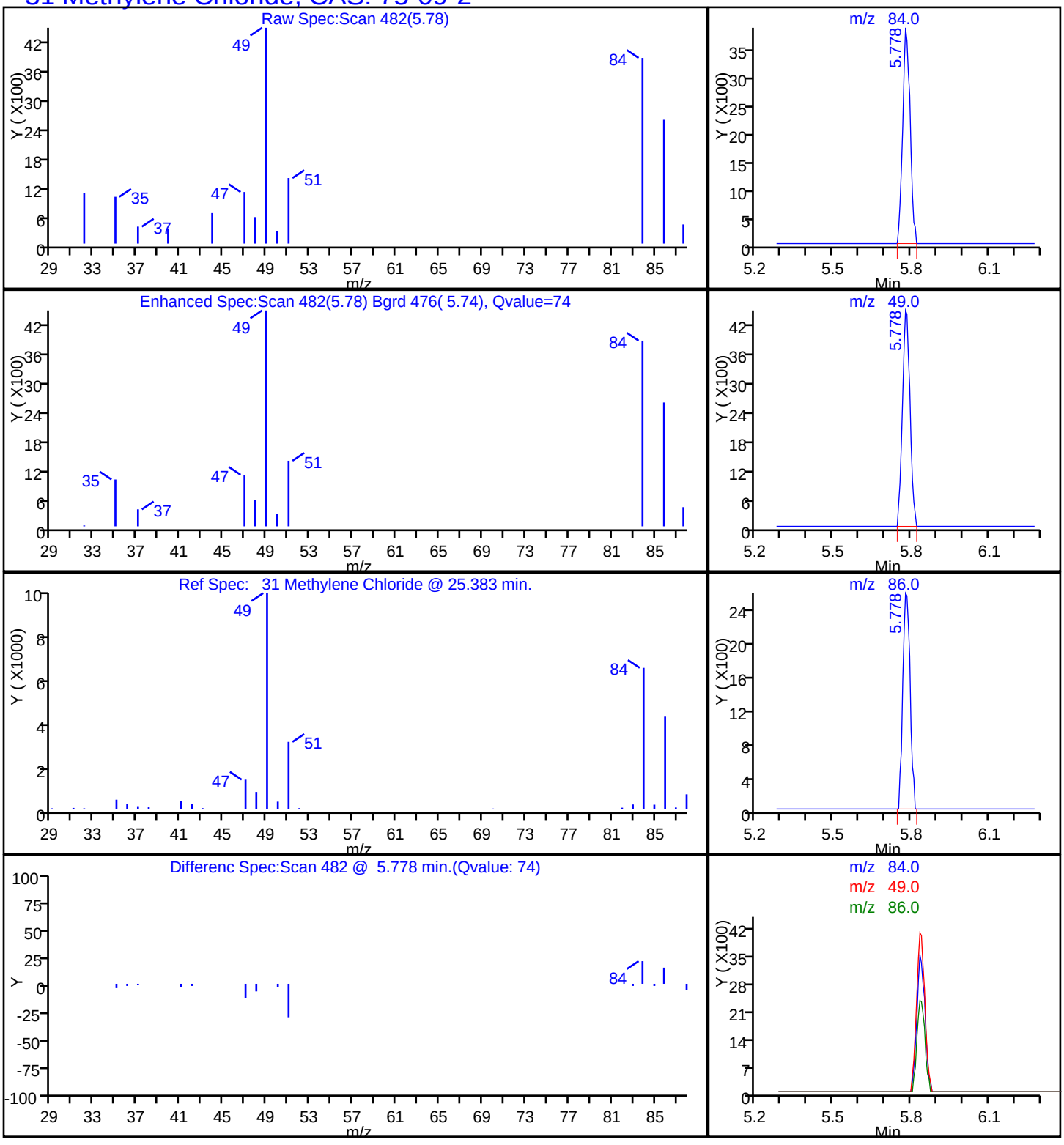
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



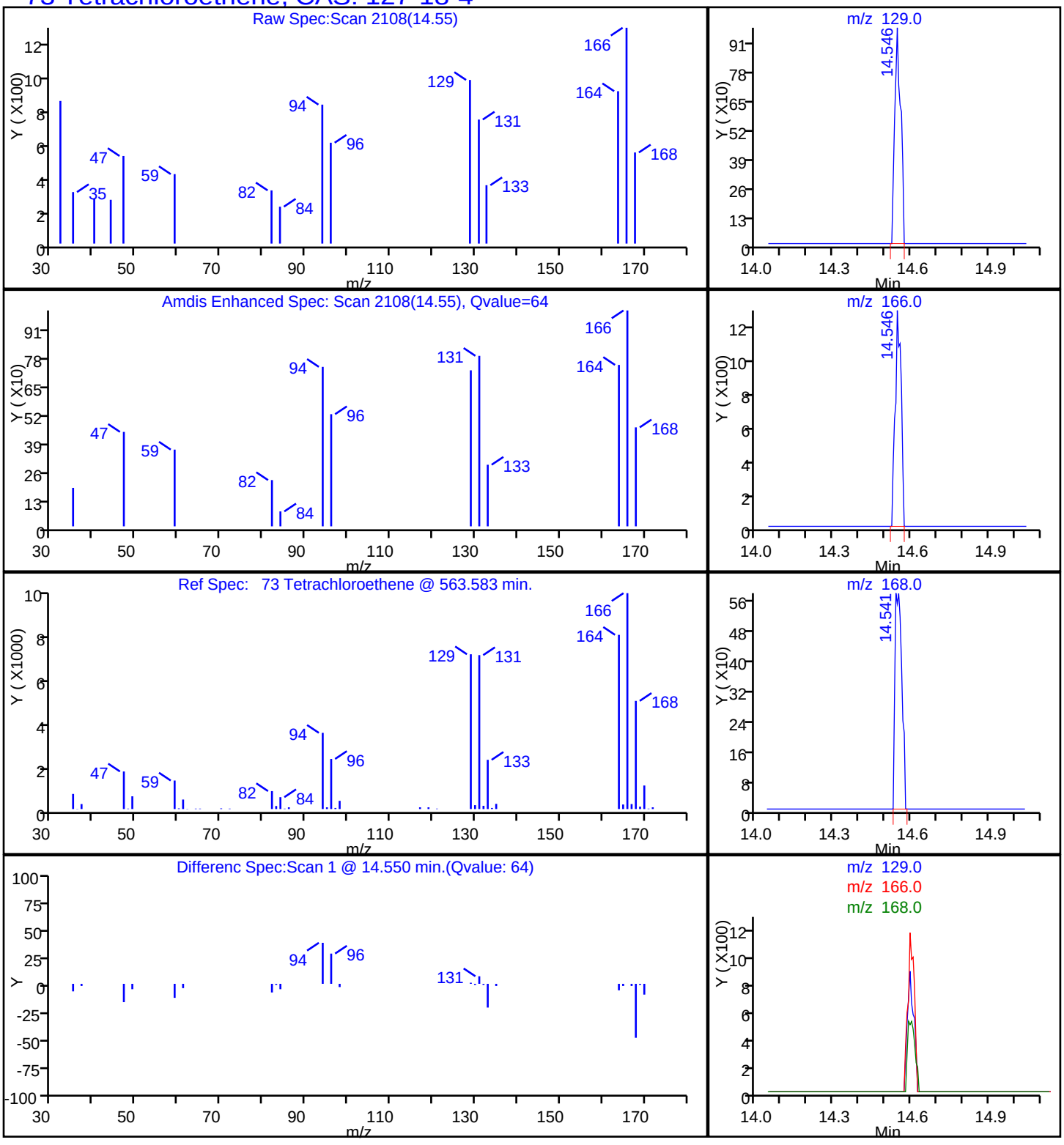
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



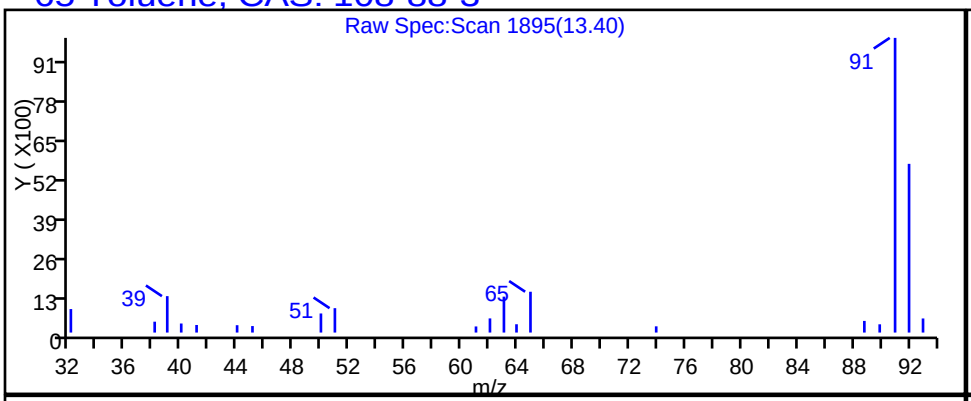
Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

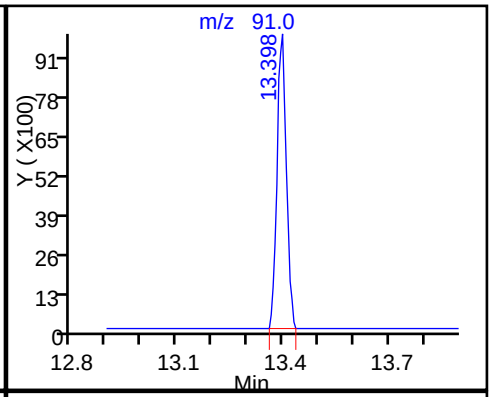
TestAmerica Knoxville

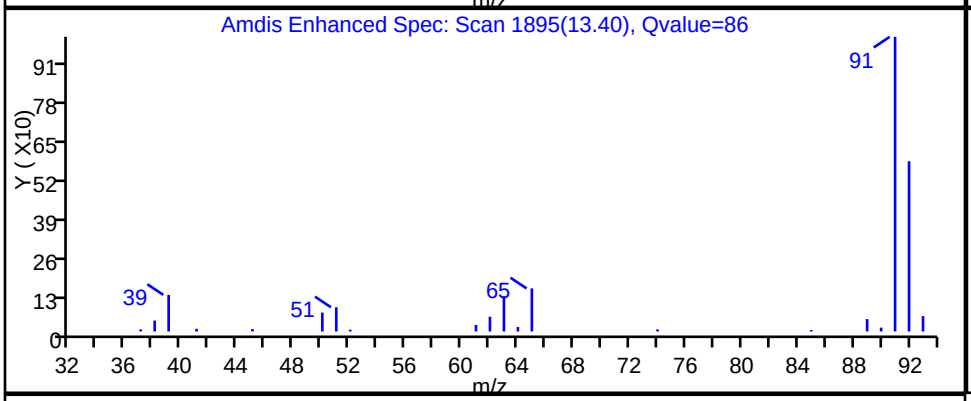
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D

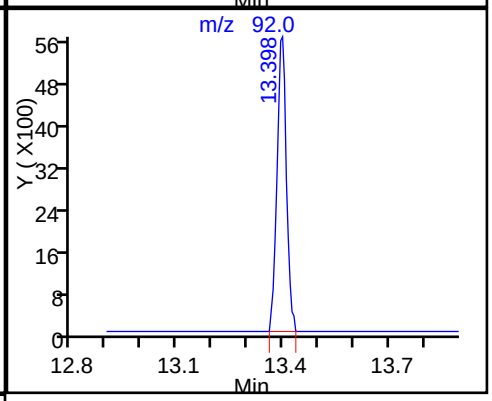
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17
Client ID:	PCV-AMB4		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

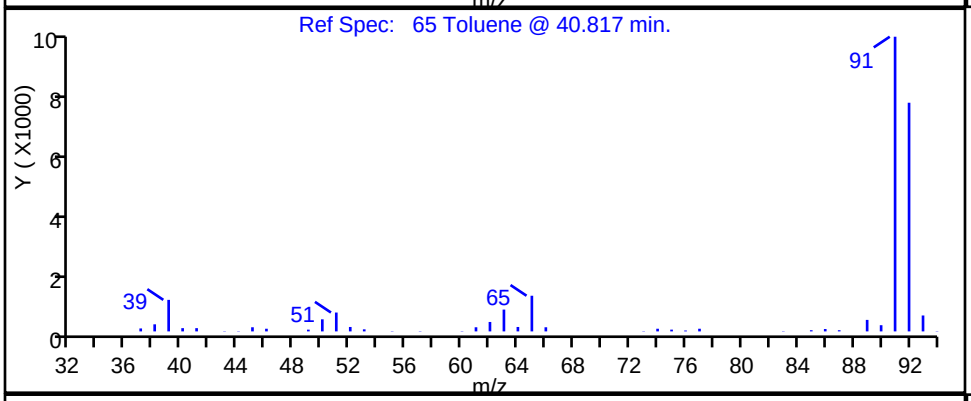
65 Toluene, CAS: 108-88-3

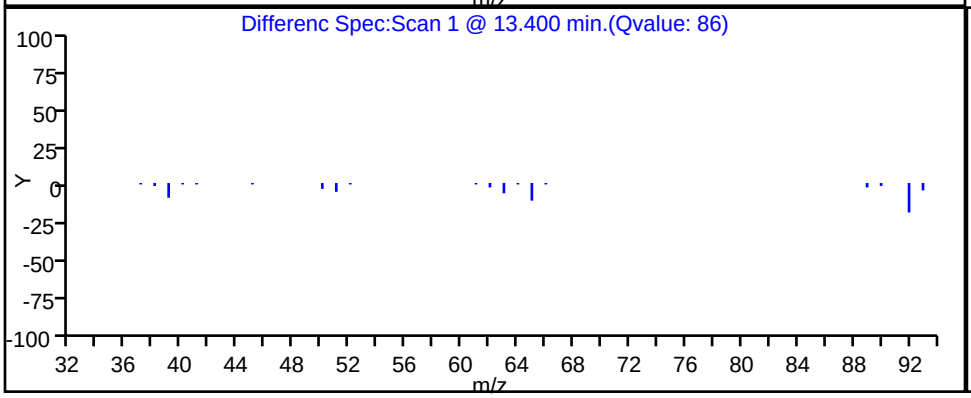


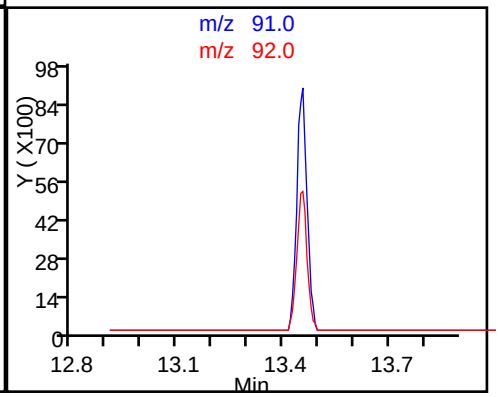










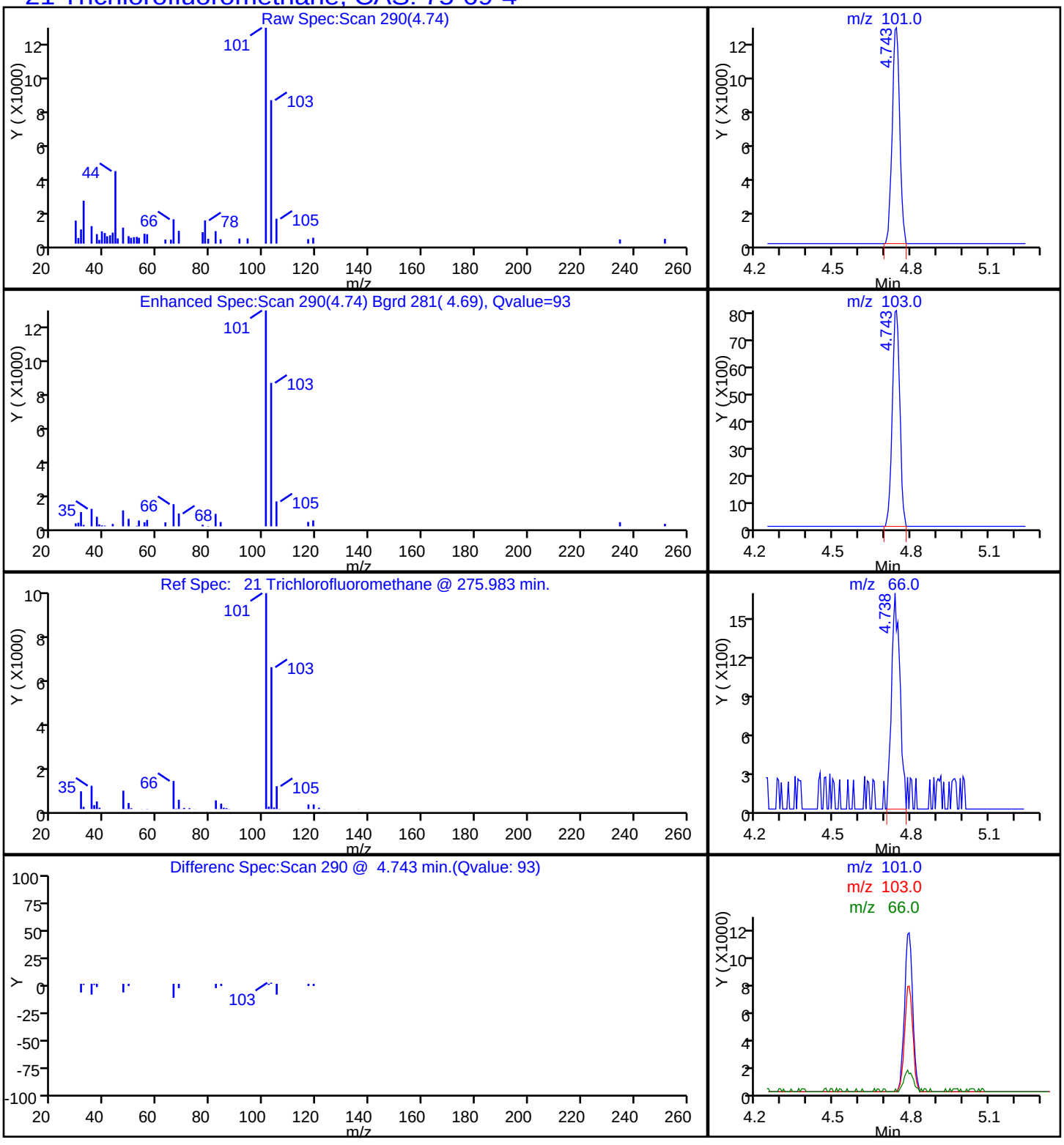


Report Date: 17-Mar-2014 16:36:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P201.D				
Injection Date:	15-Mar-2014 05:03:30	Instrument ID:	ME		
Lims ID:	140-1041-A-17	Lab Sample ID:	140-1041-17		
Client ID:	PCV-AMB4				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

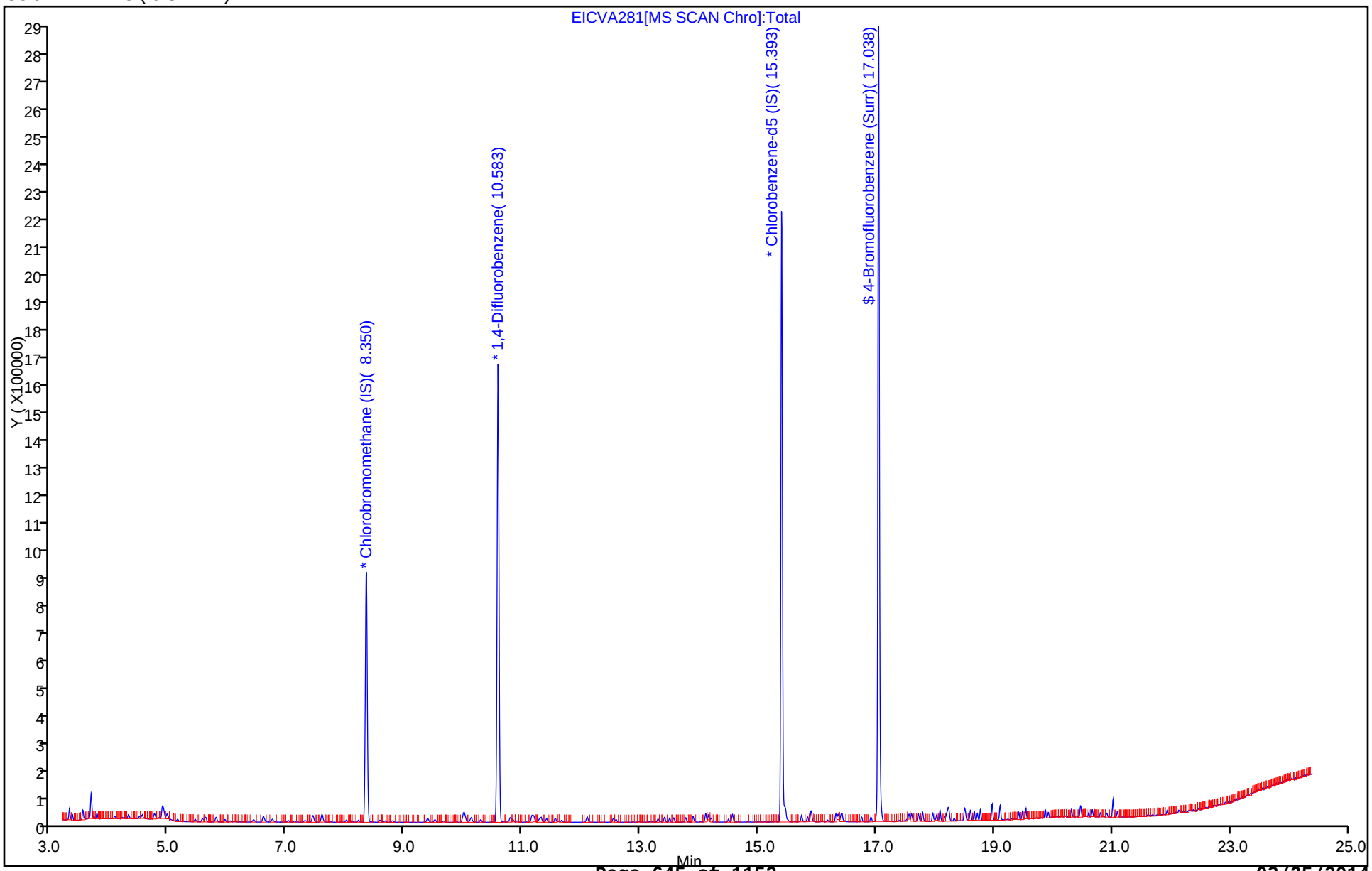
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

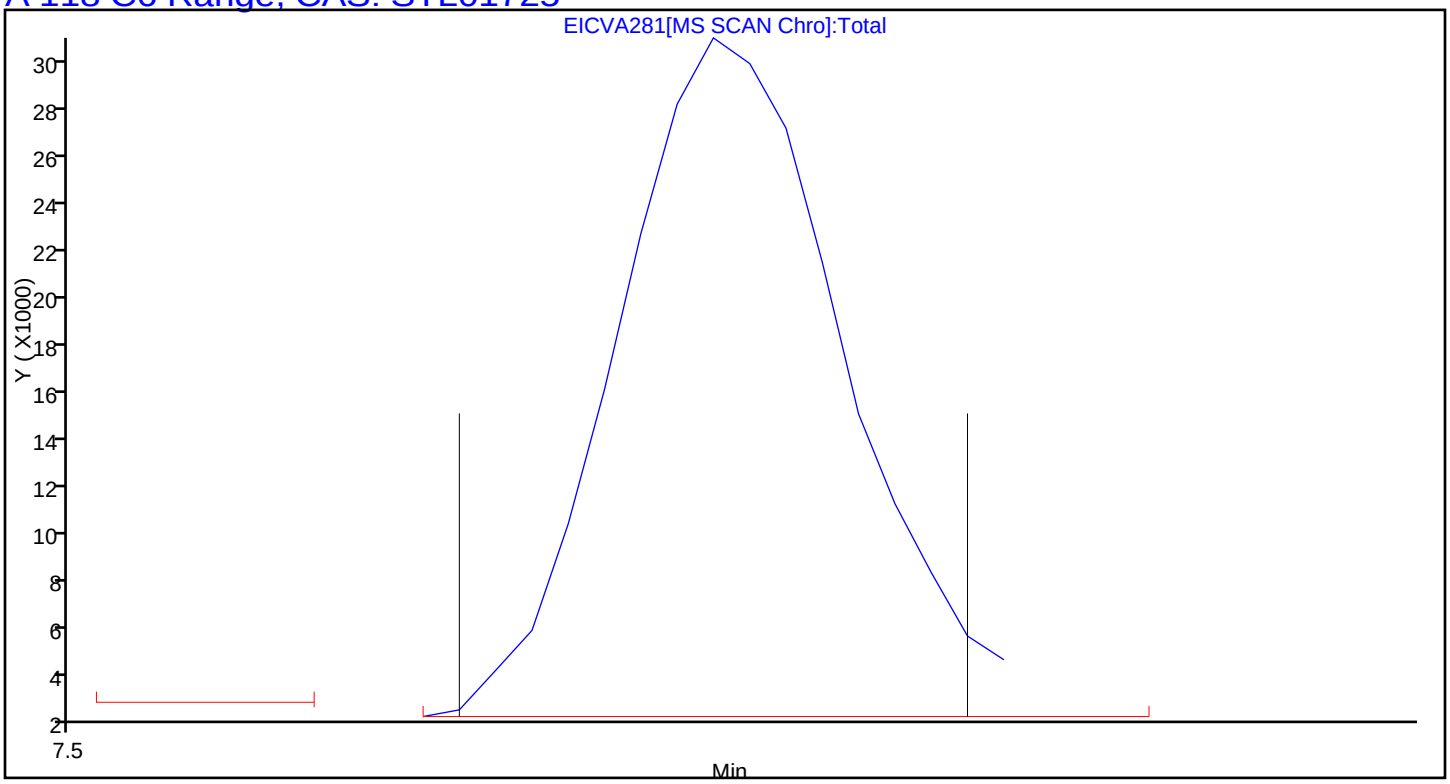


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

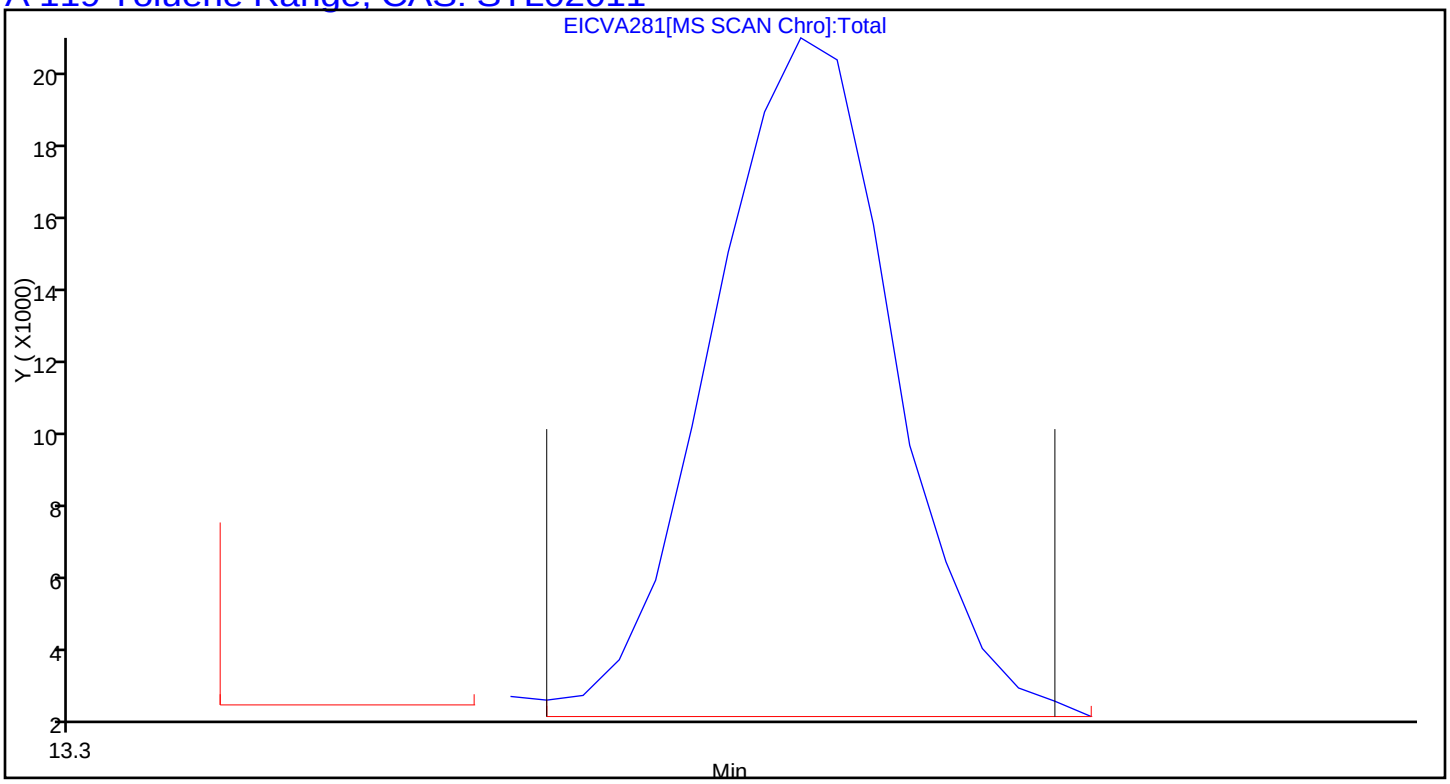


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

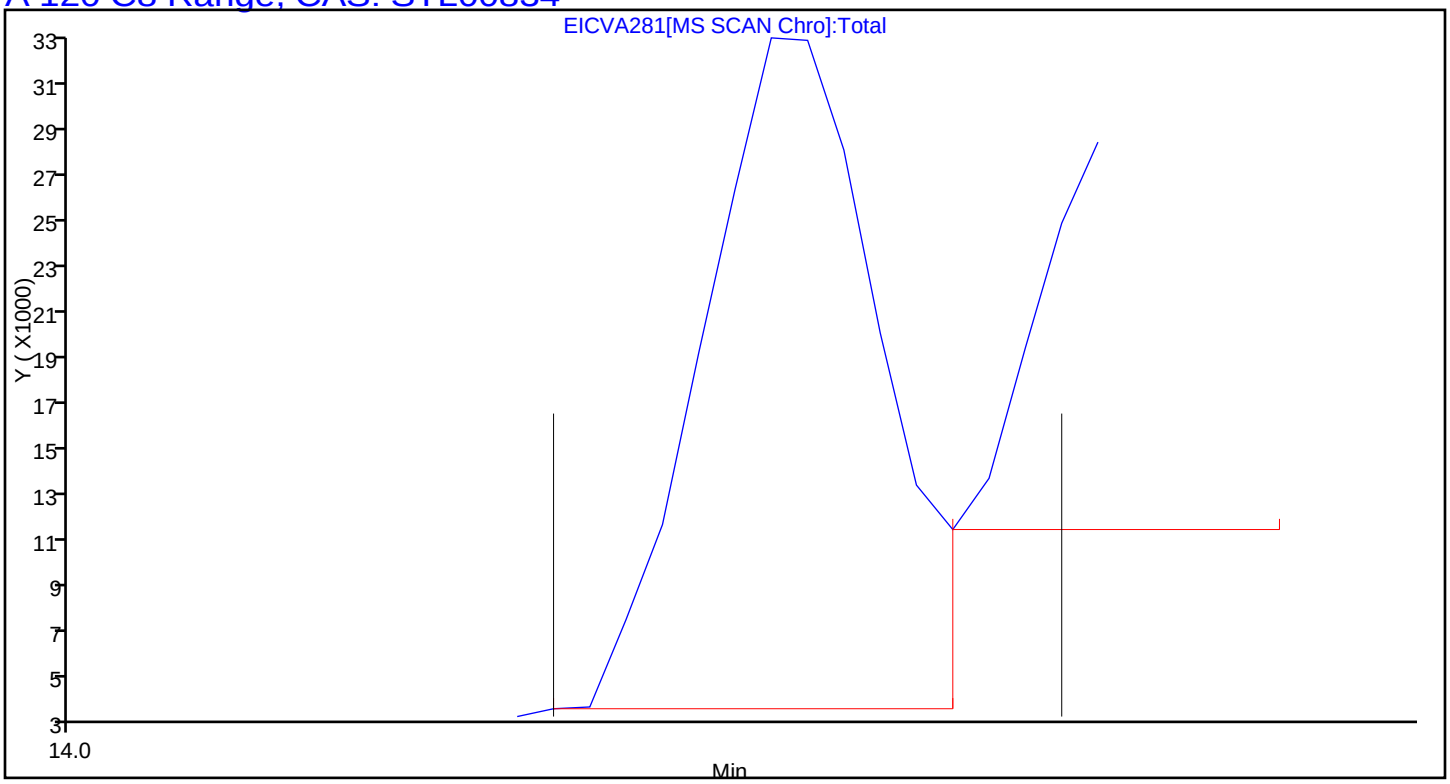


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

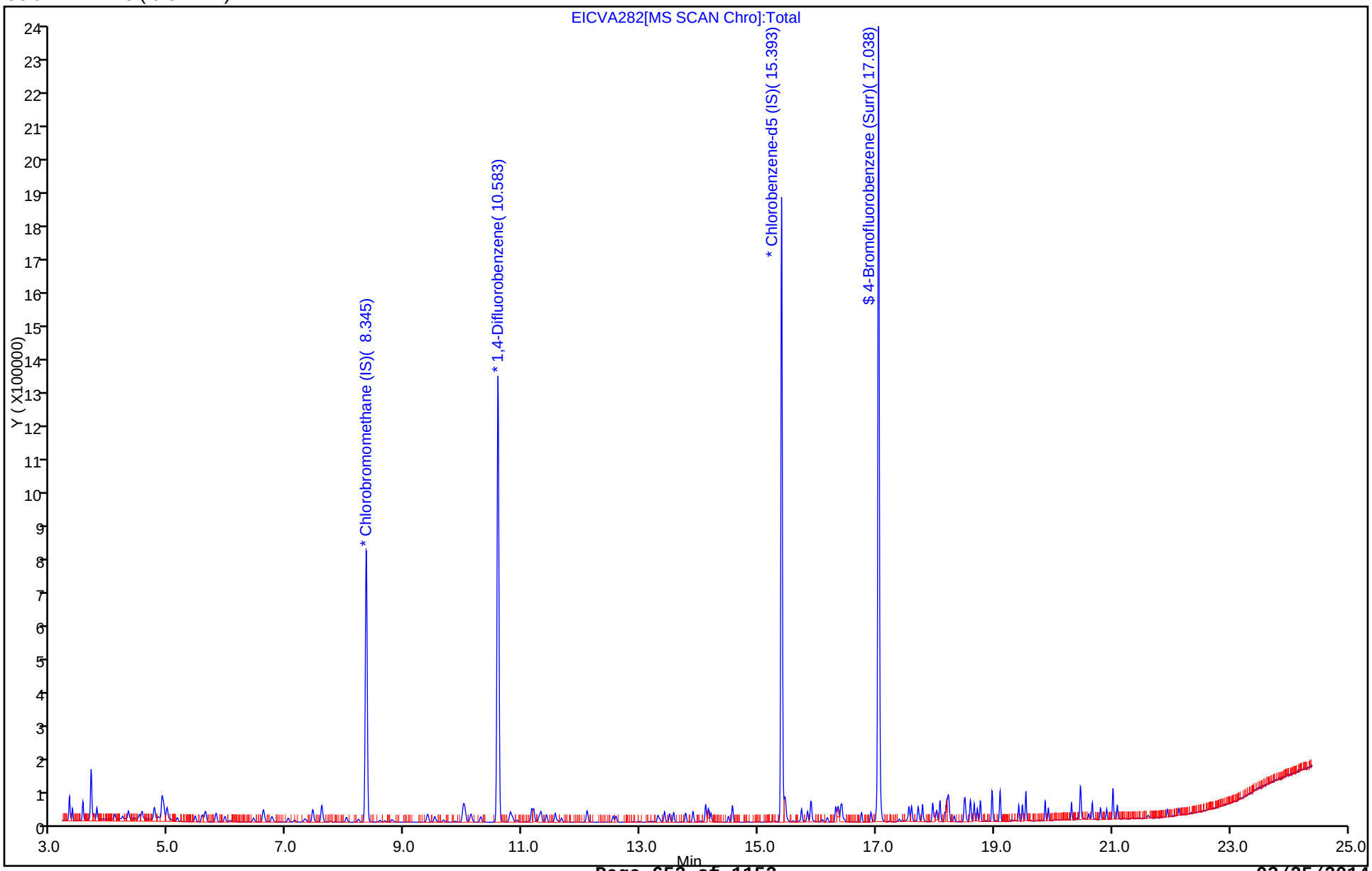
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

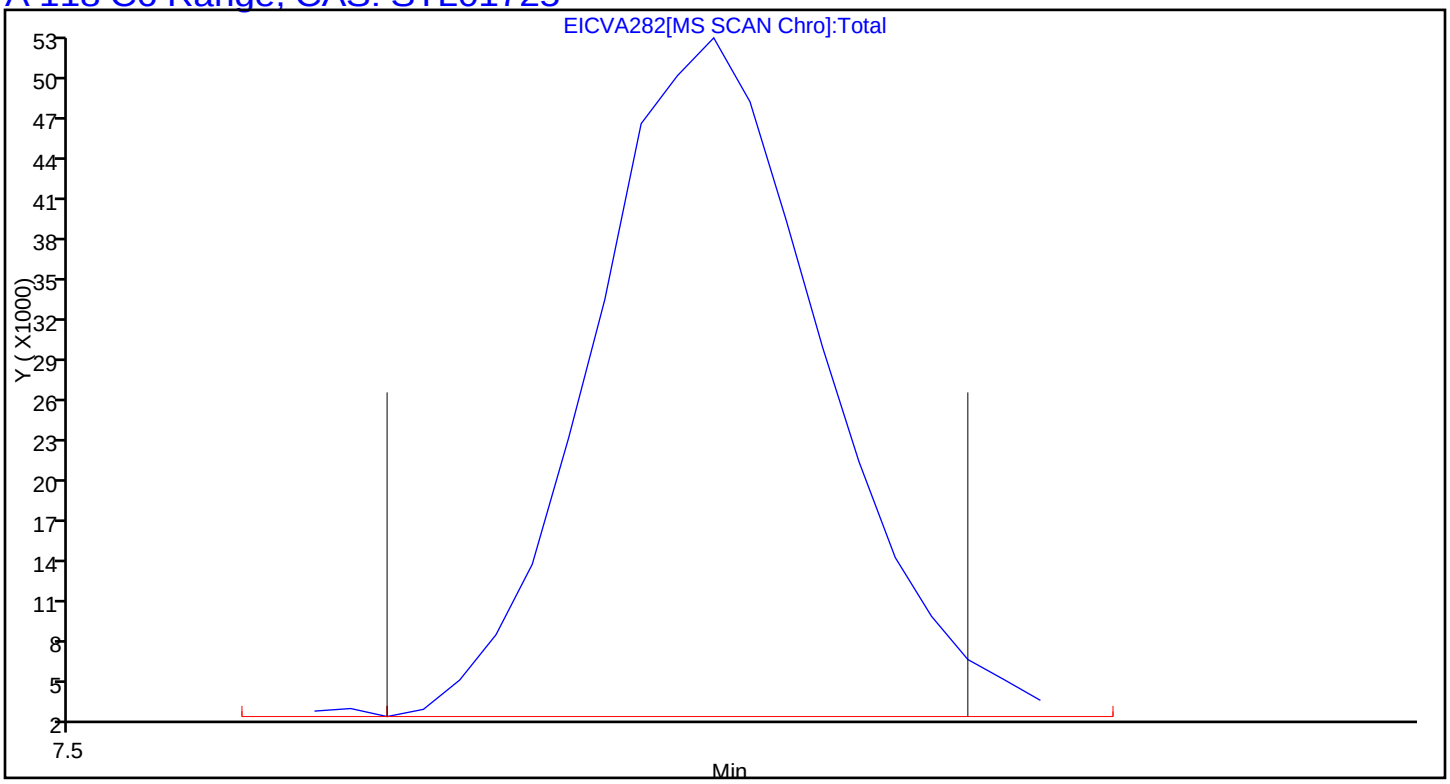


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

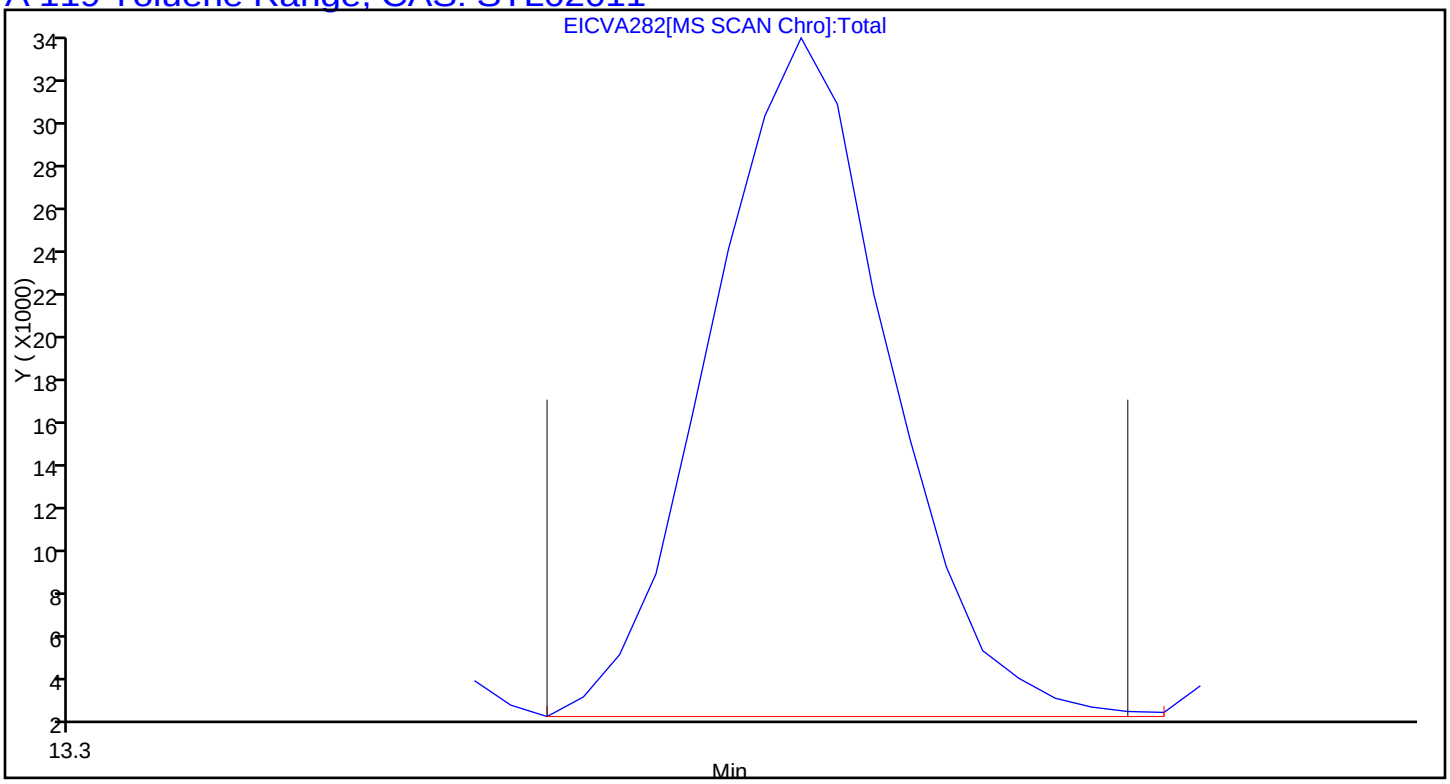


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

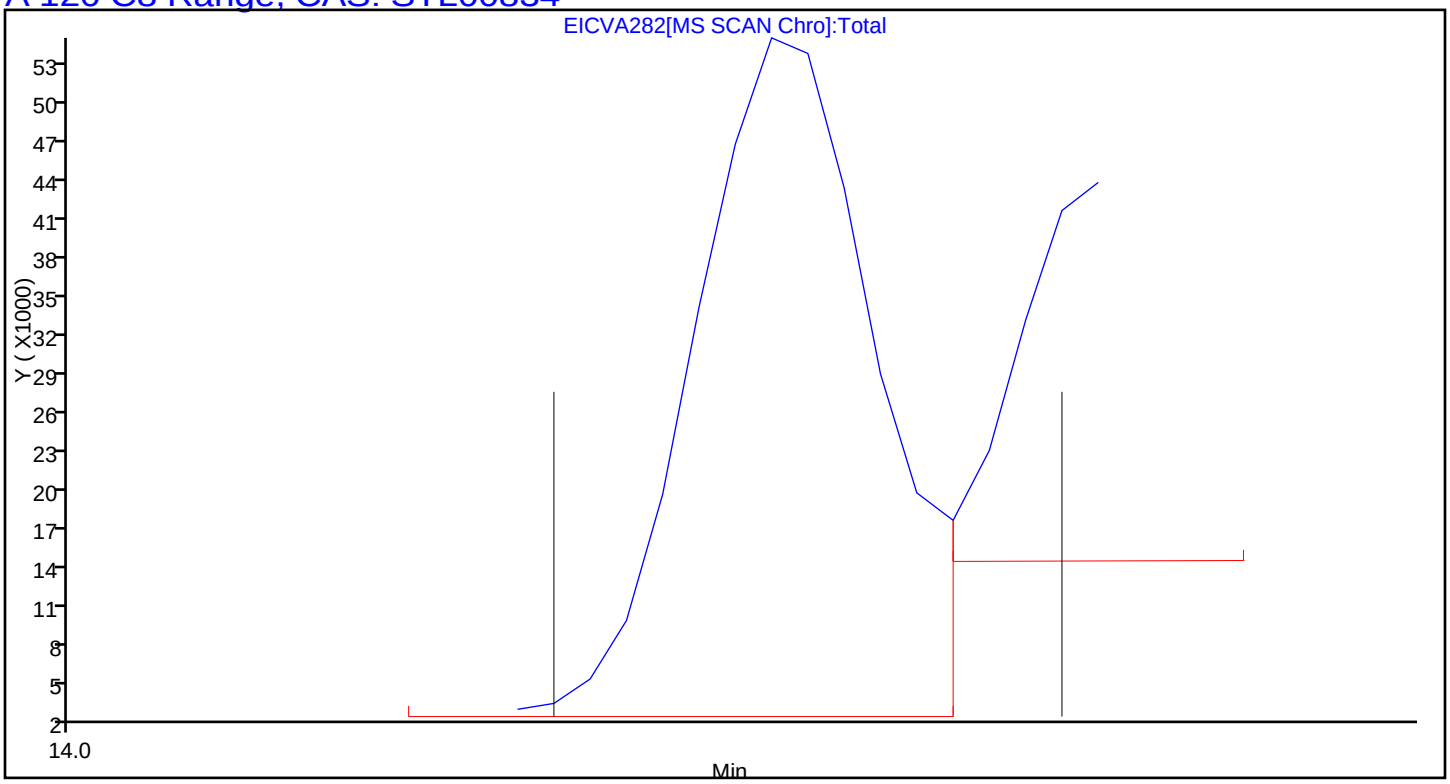


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

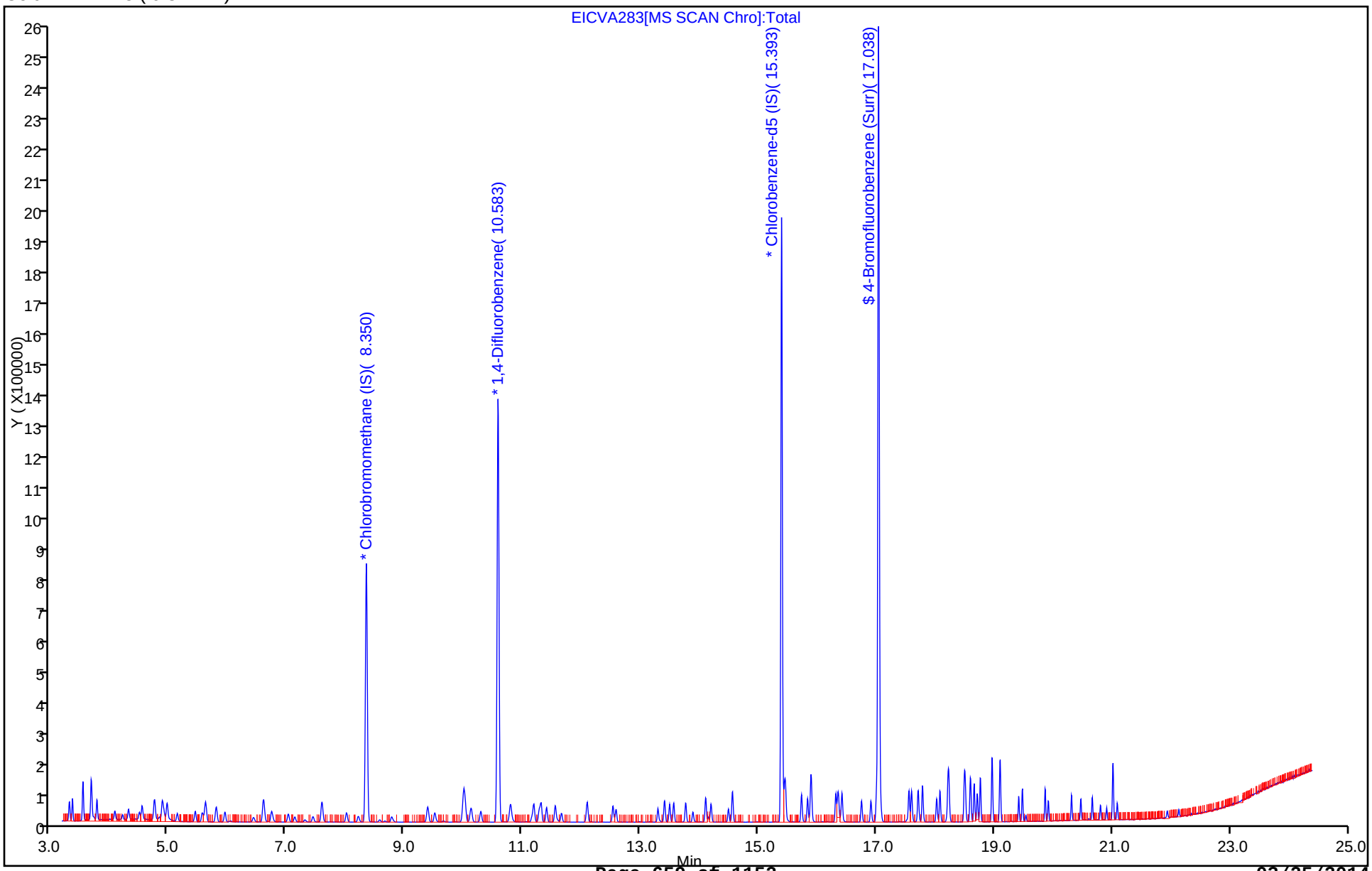
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

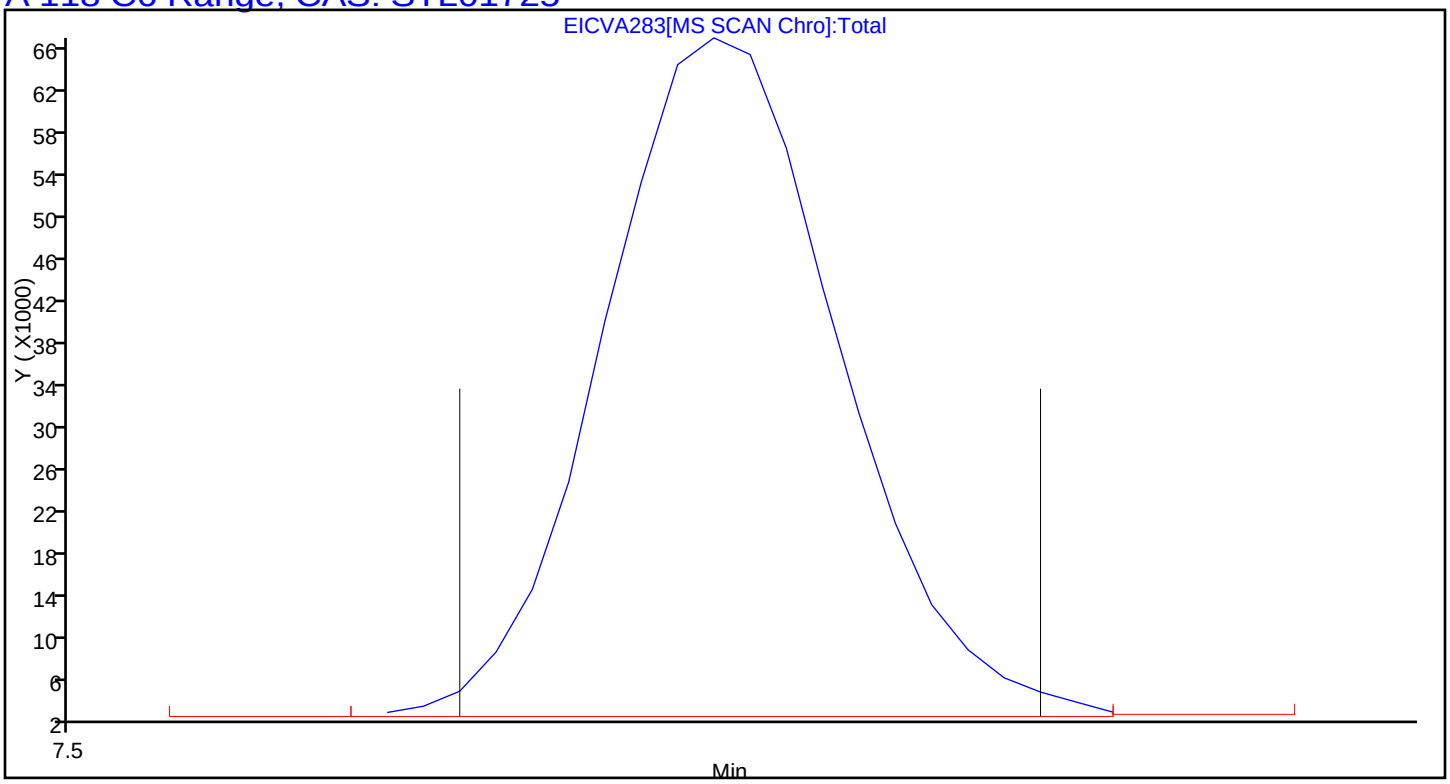


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

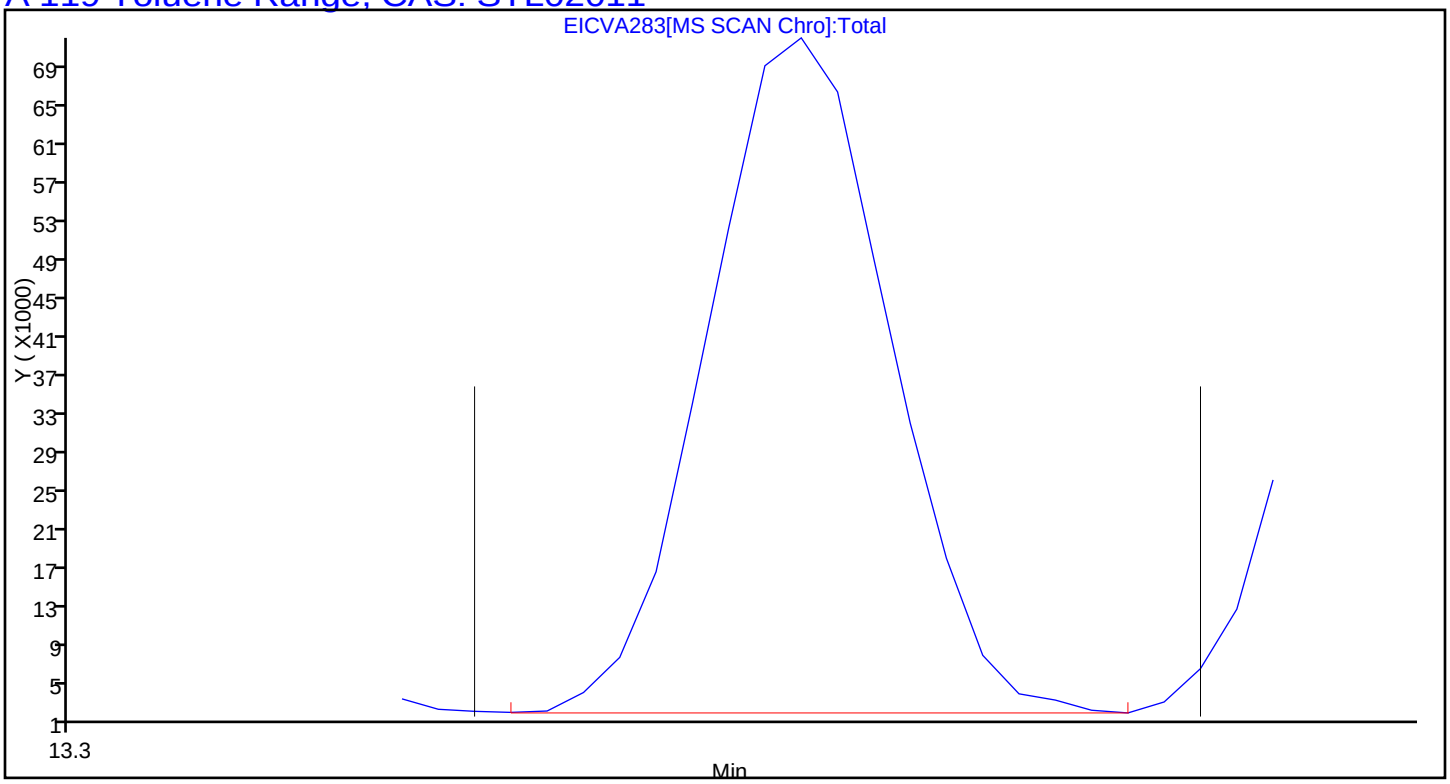


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

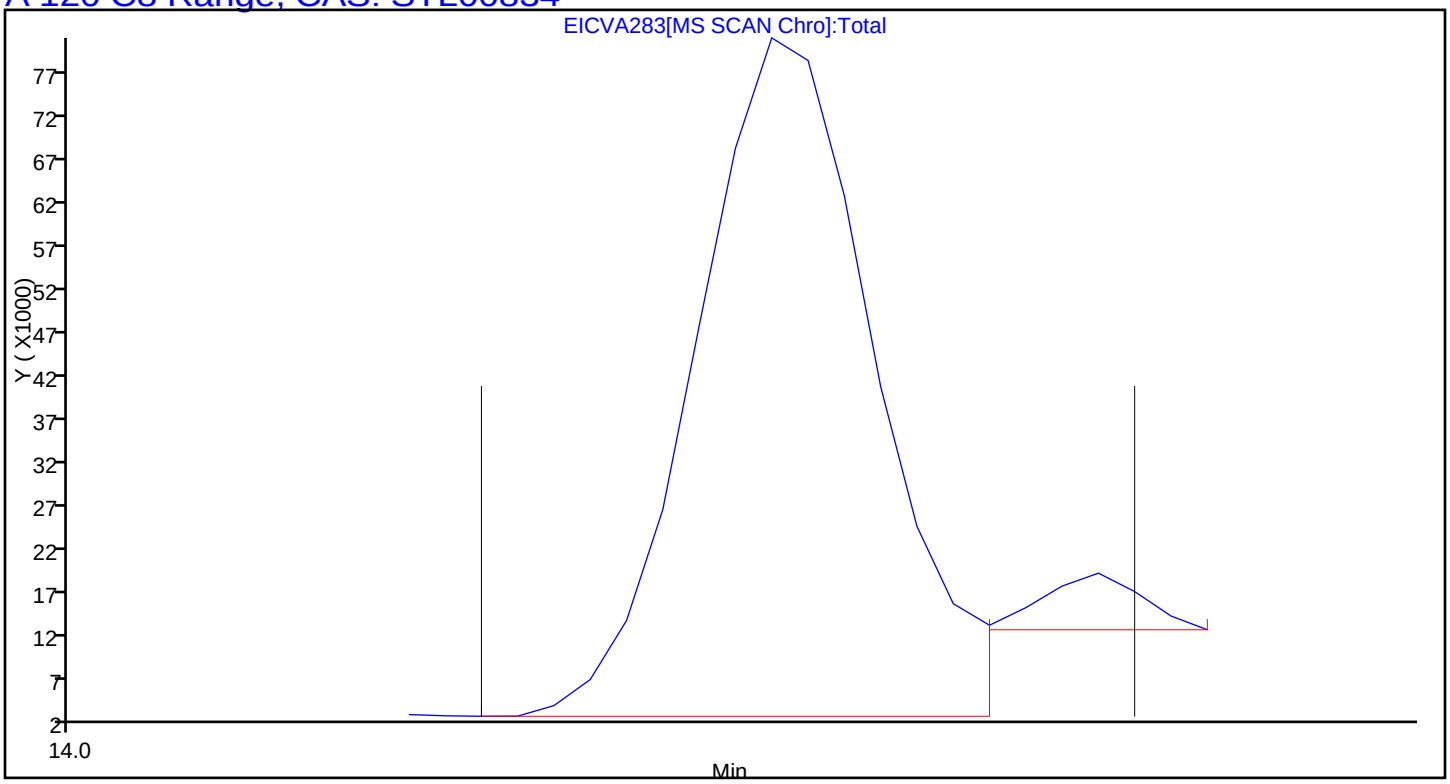


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

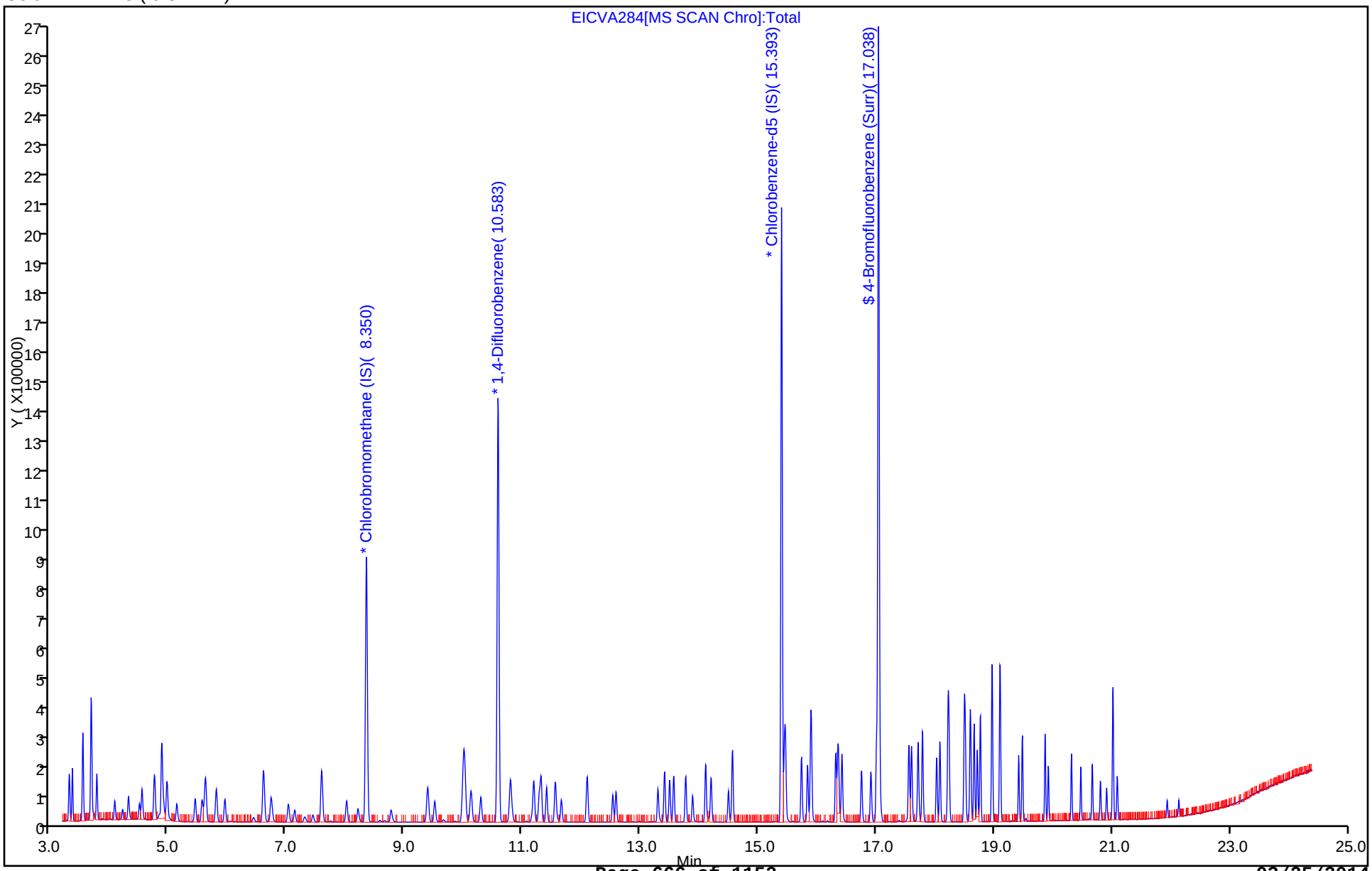
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

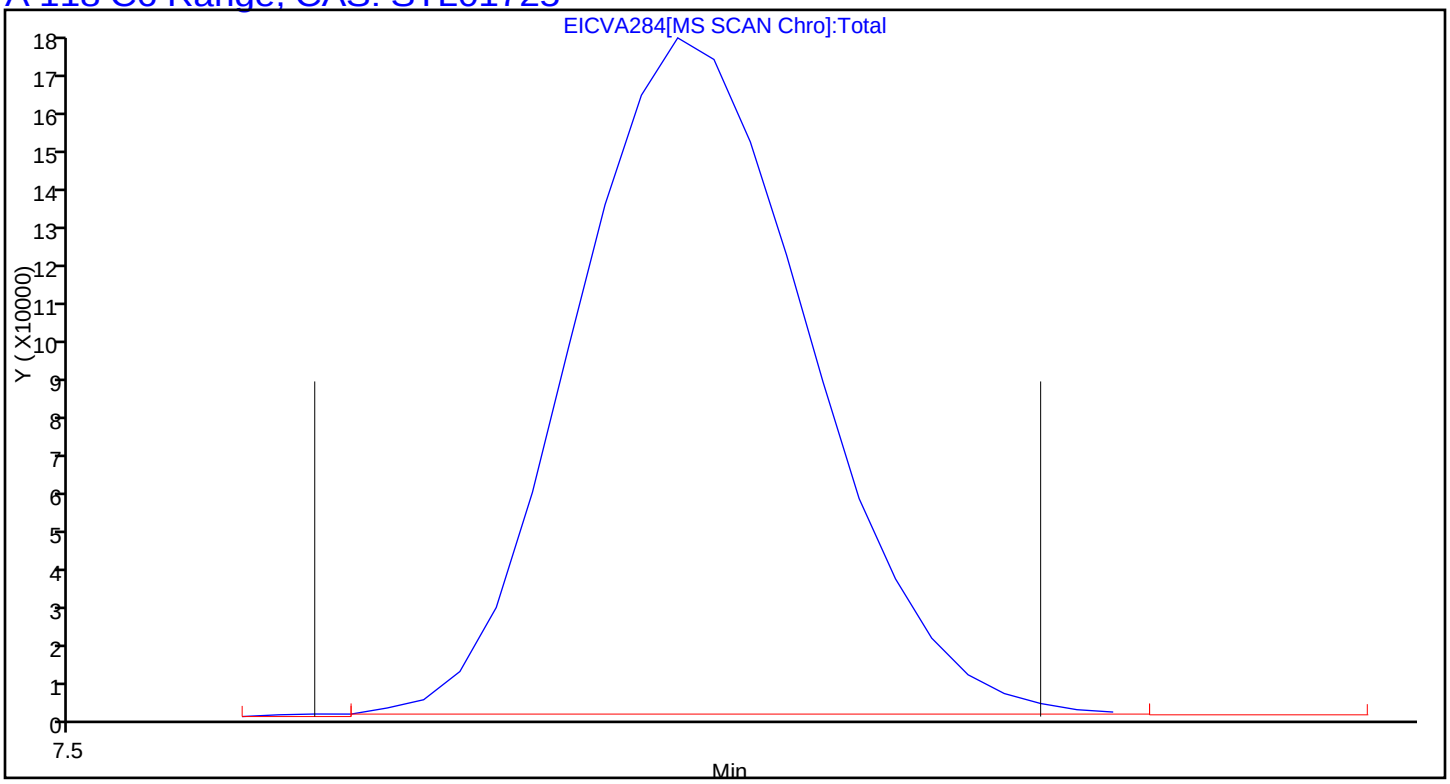


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

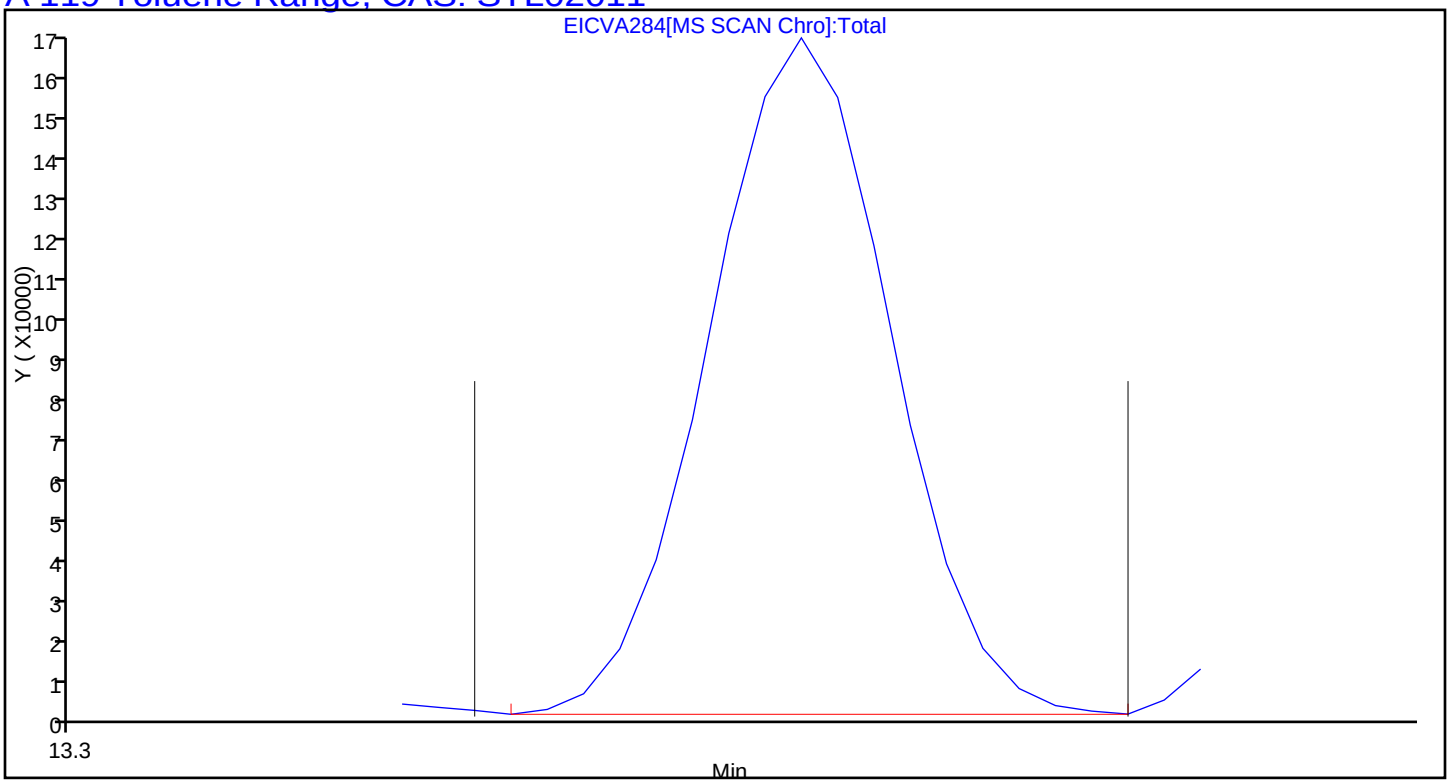


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

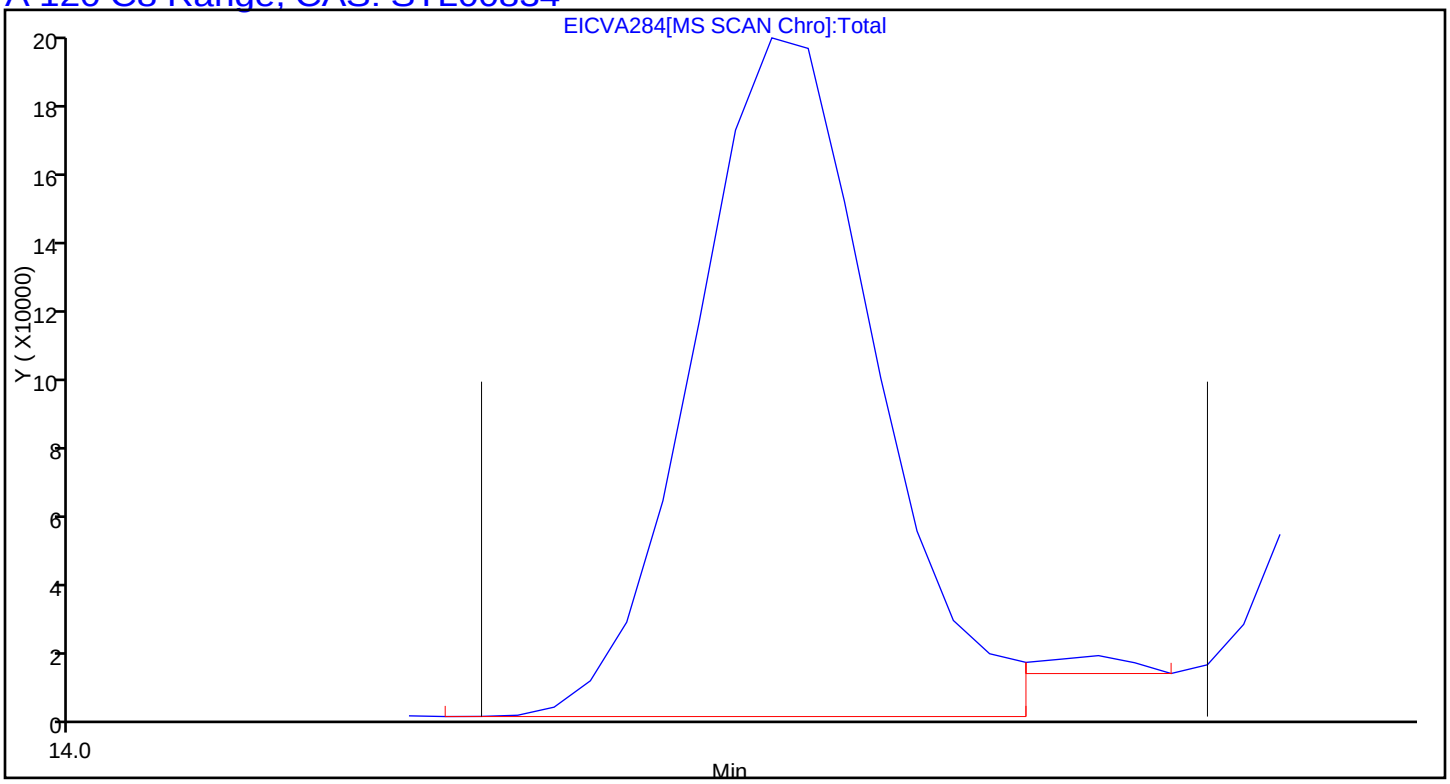


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

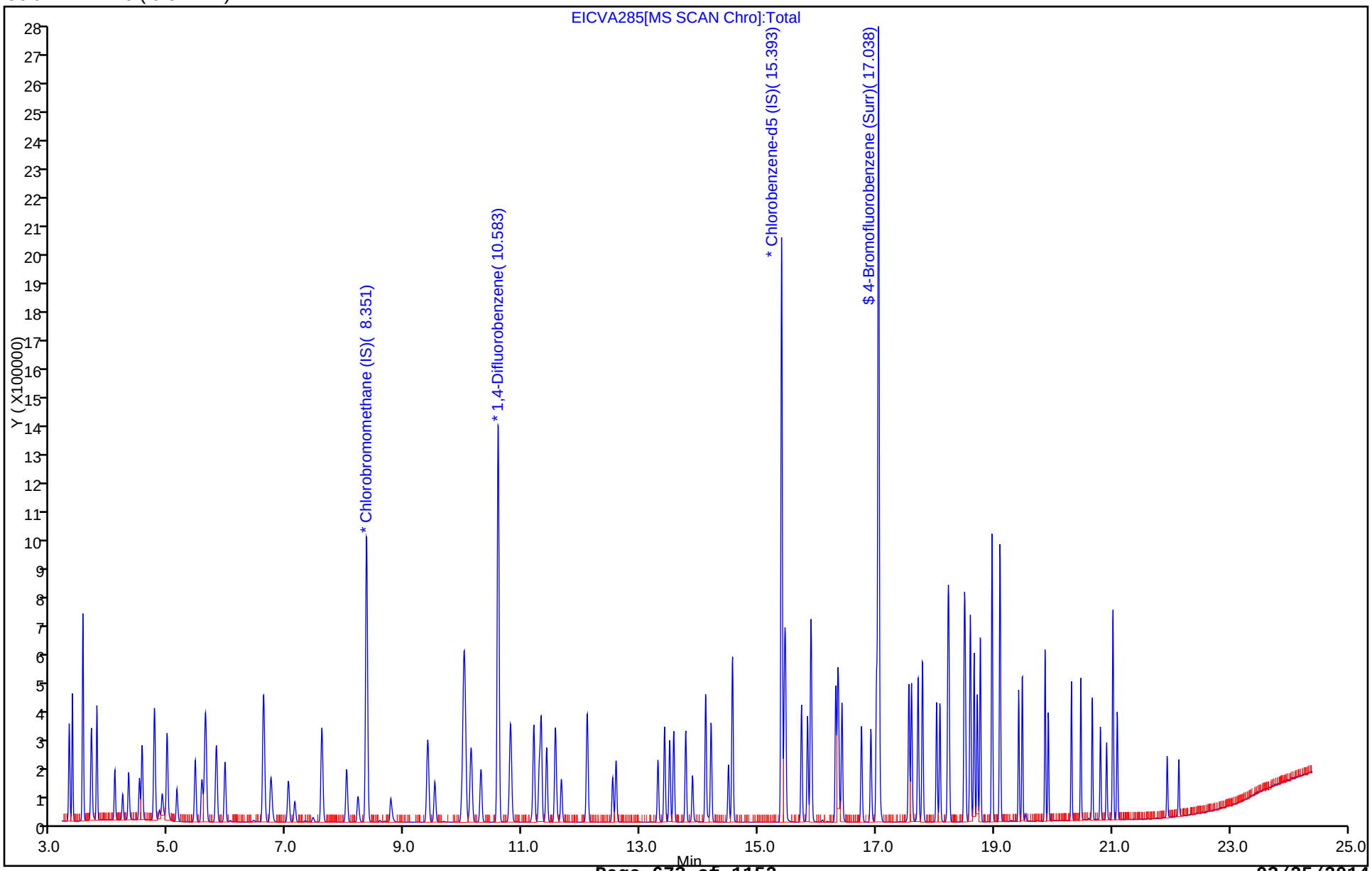
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

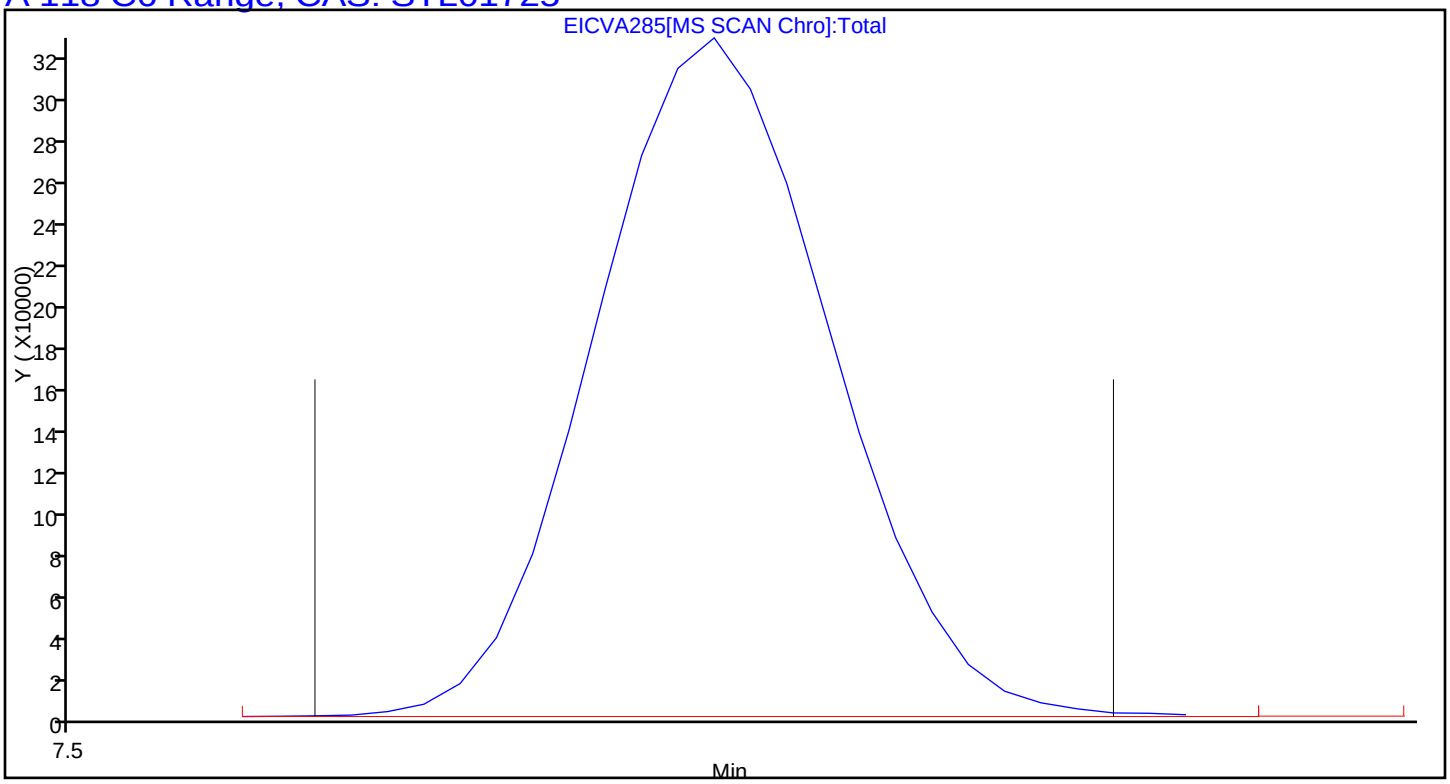


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

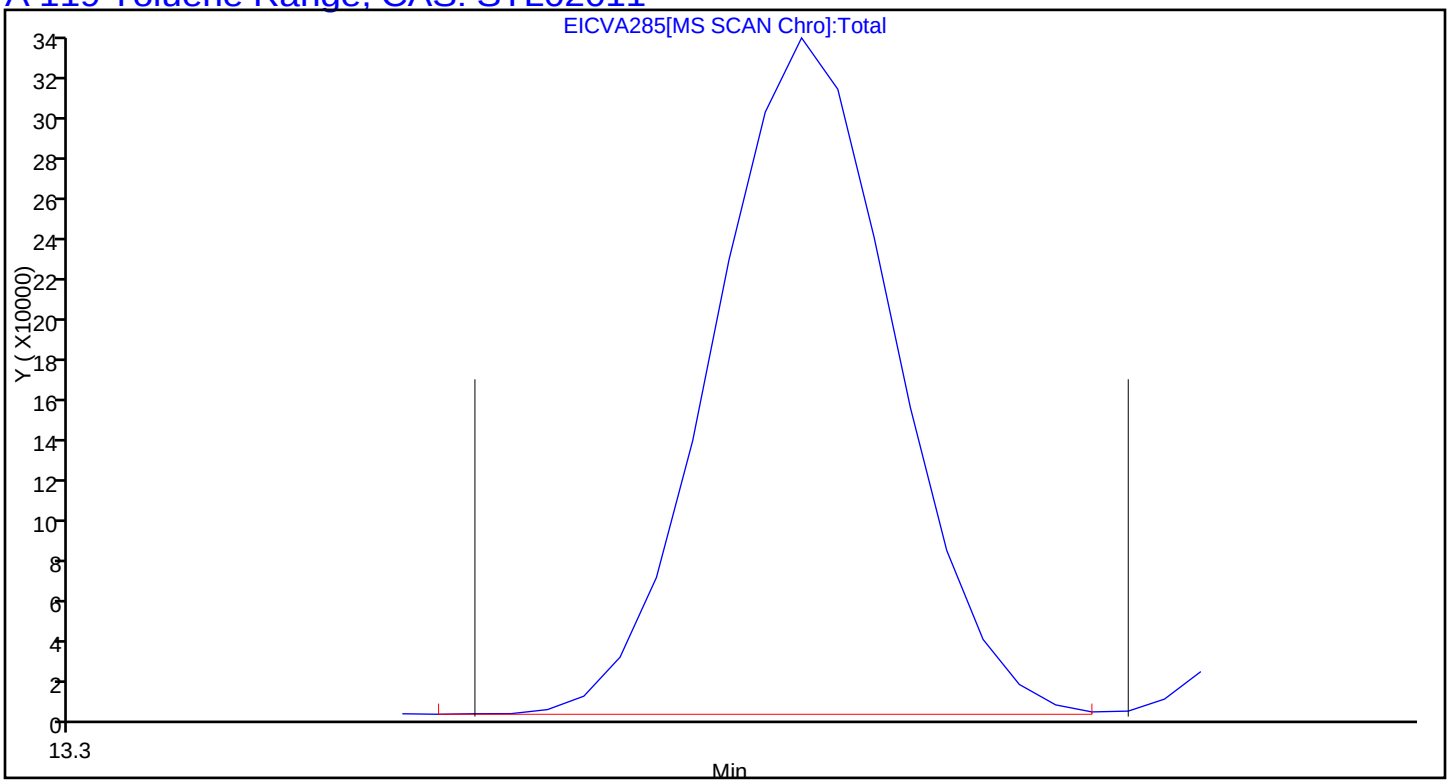


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

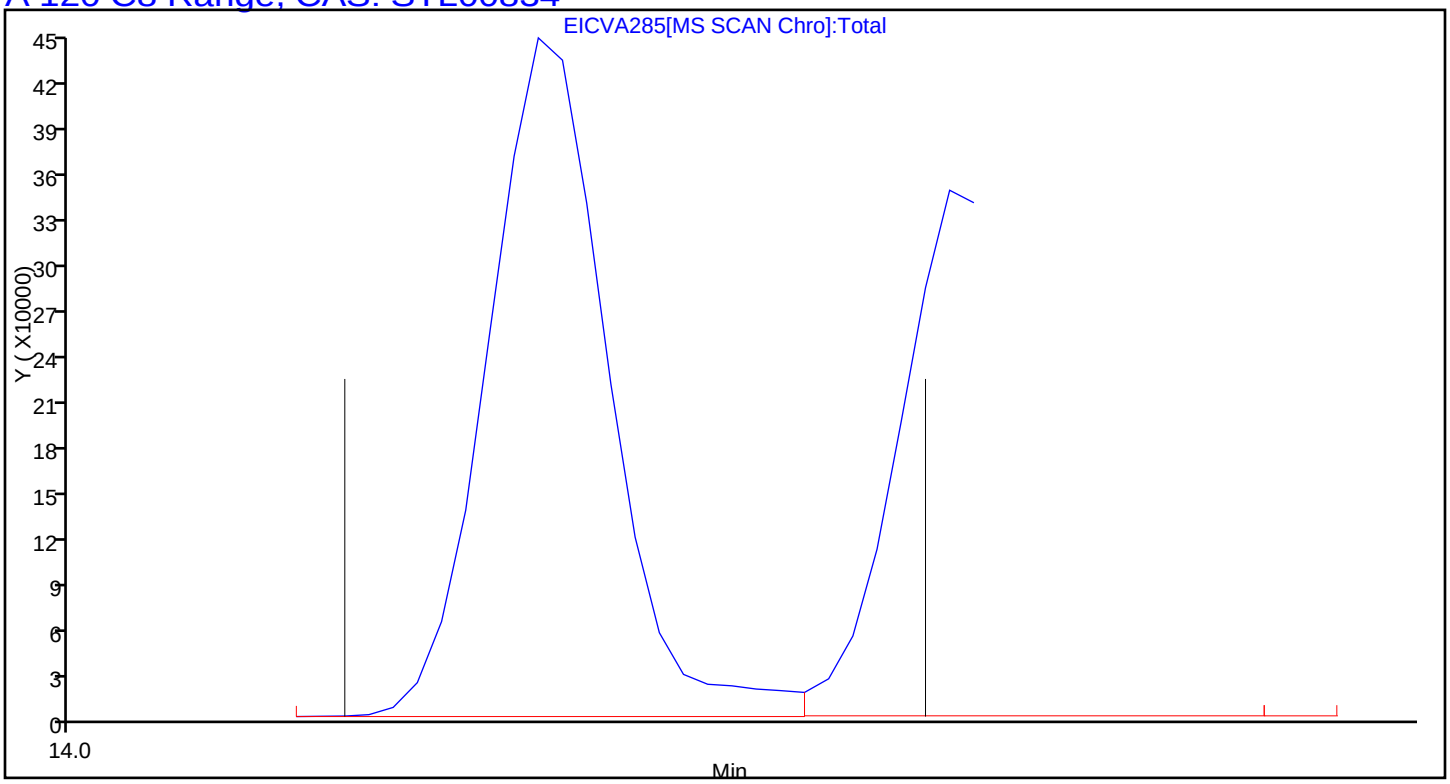


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

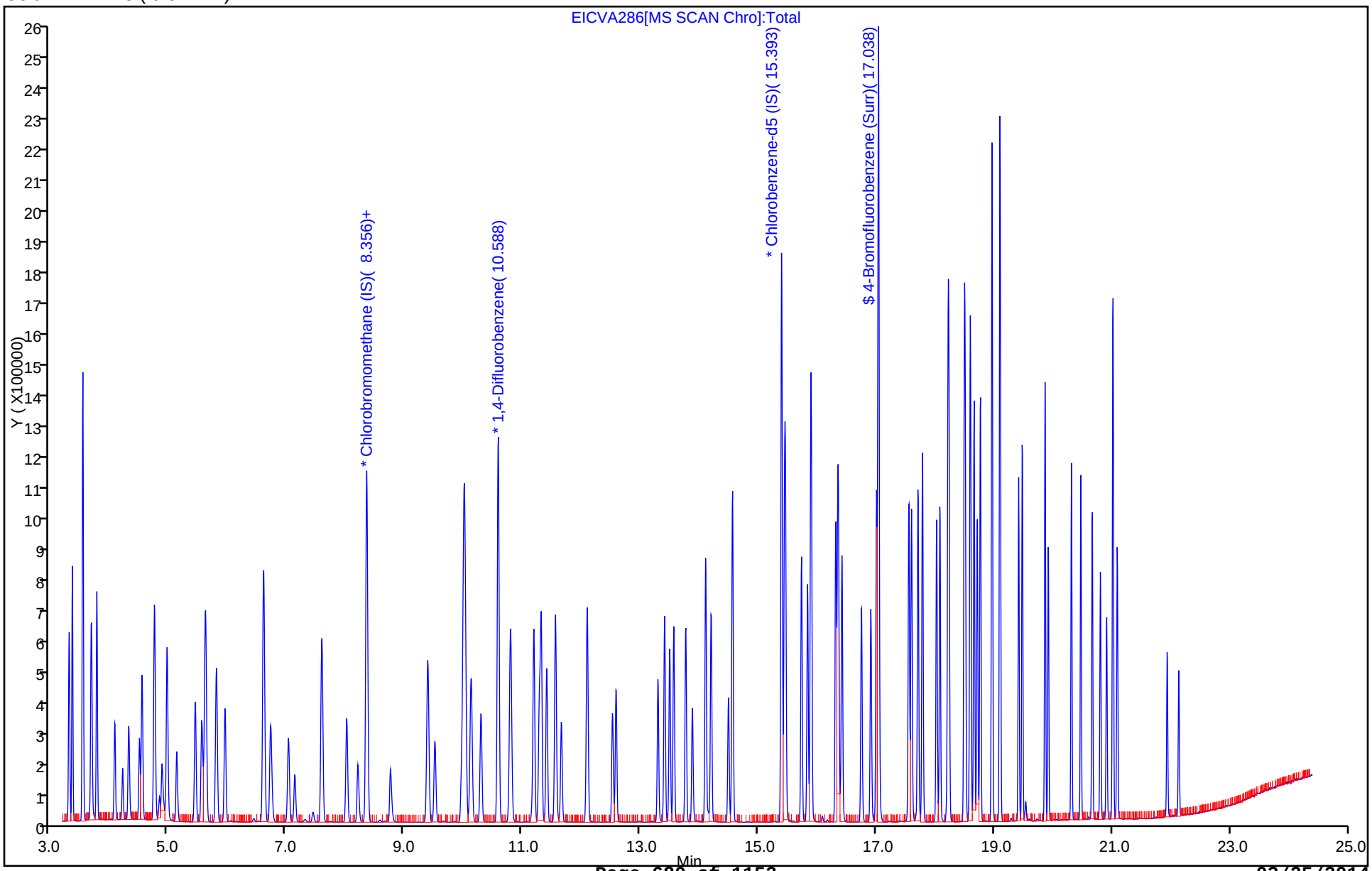
Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

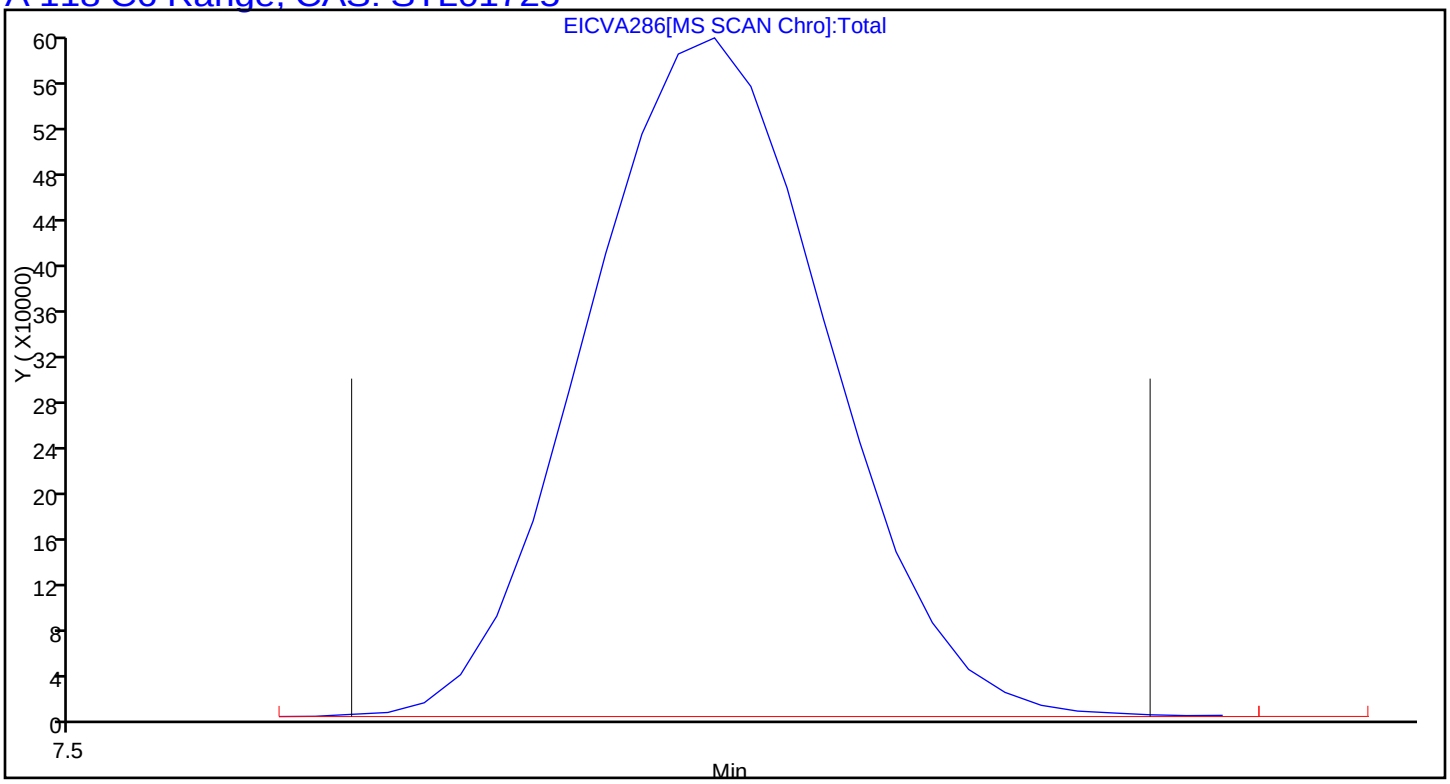


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

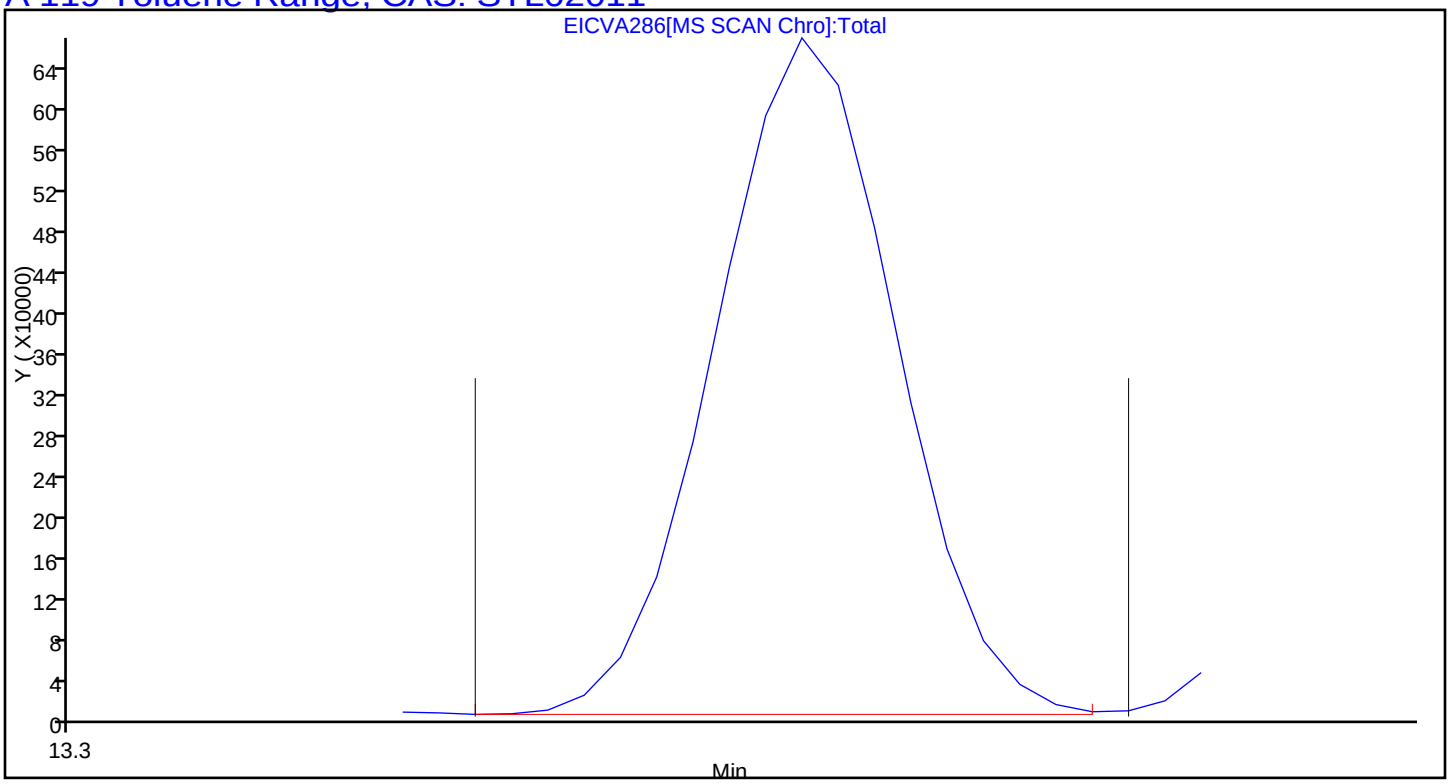


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

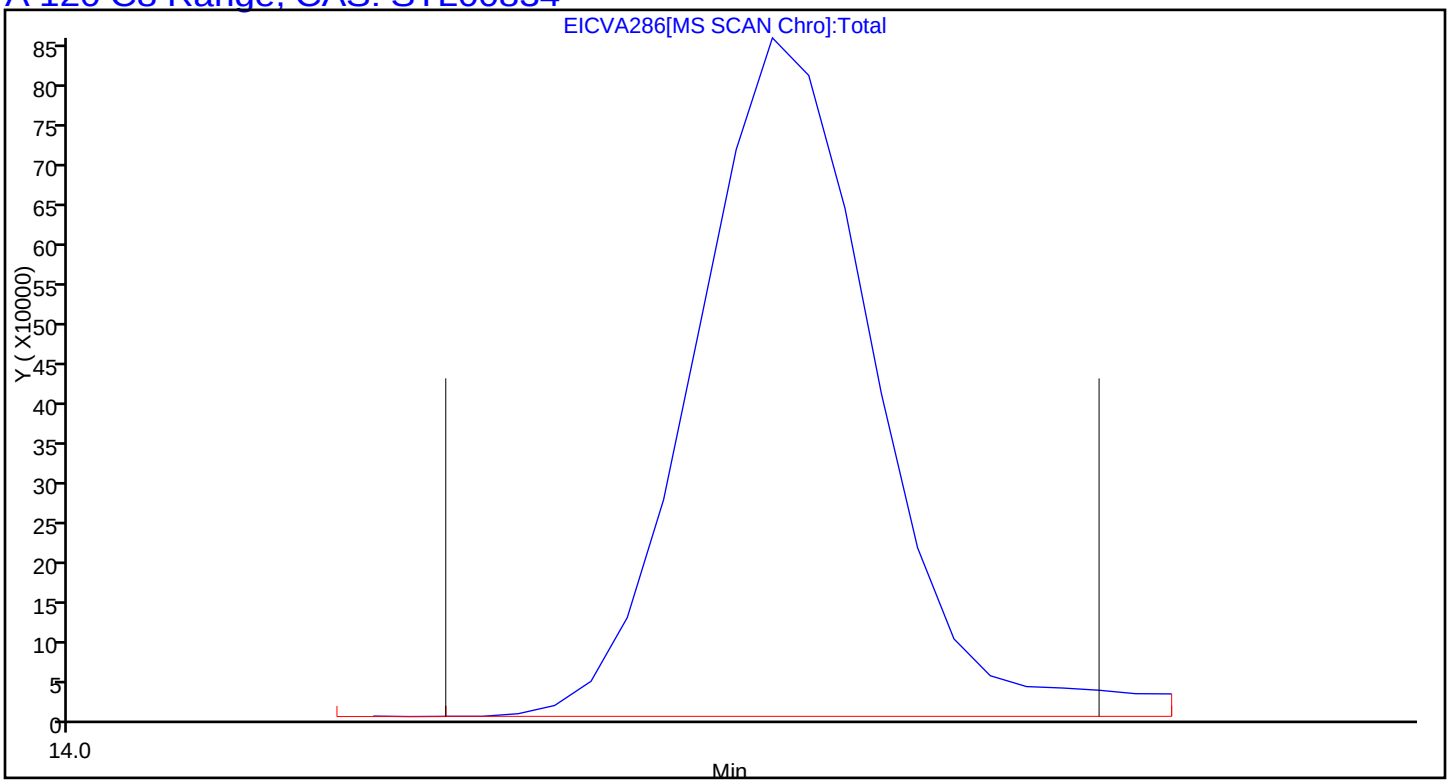


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

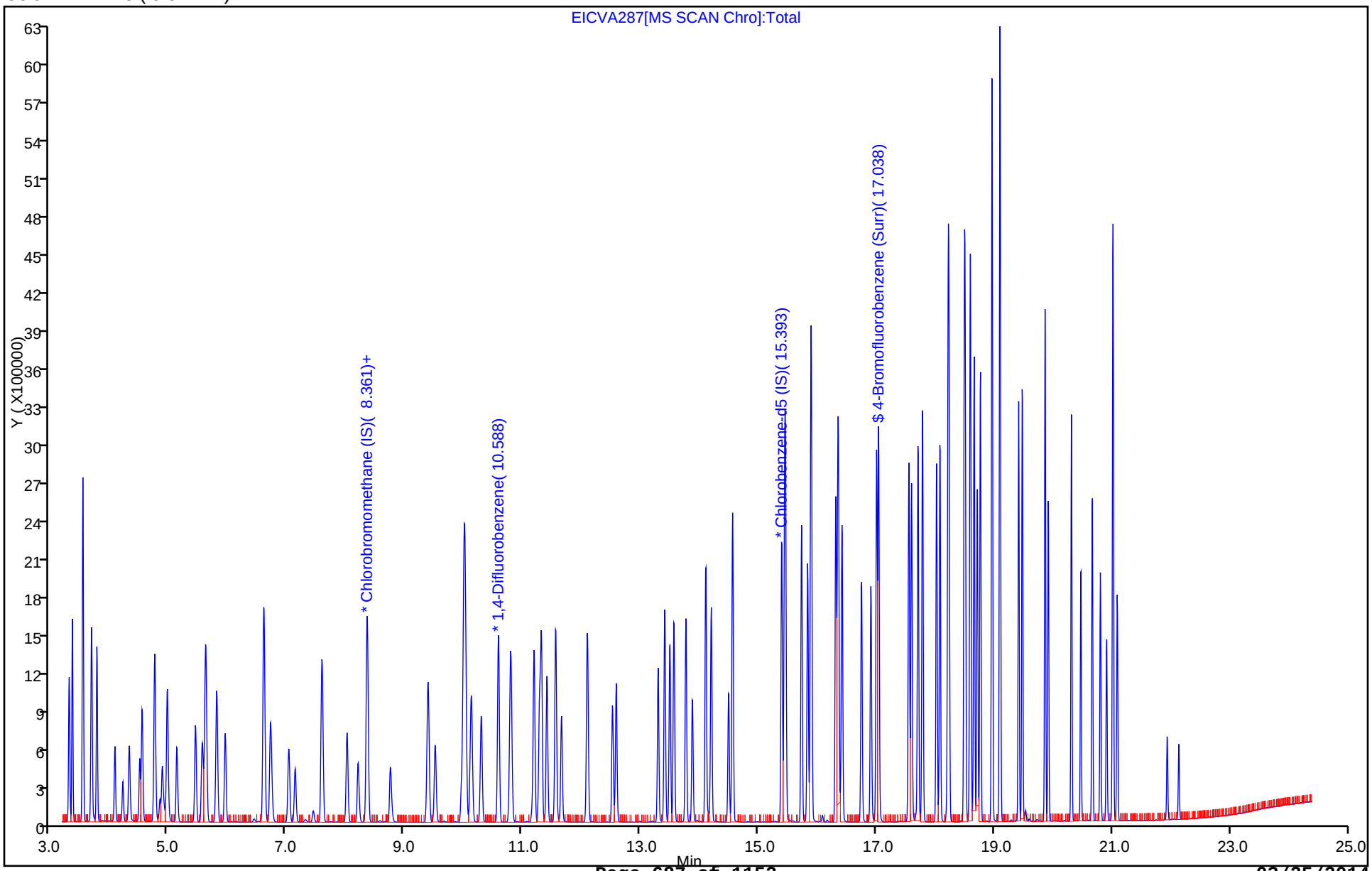
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

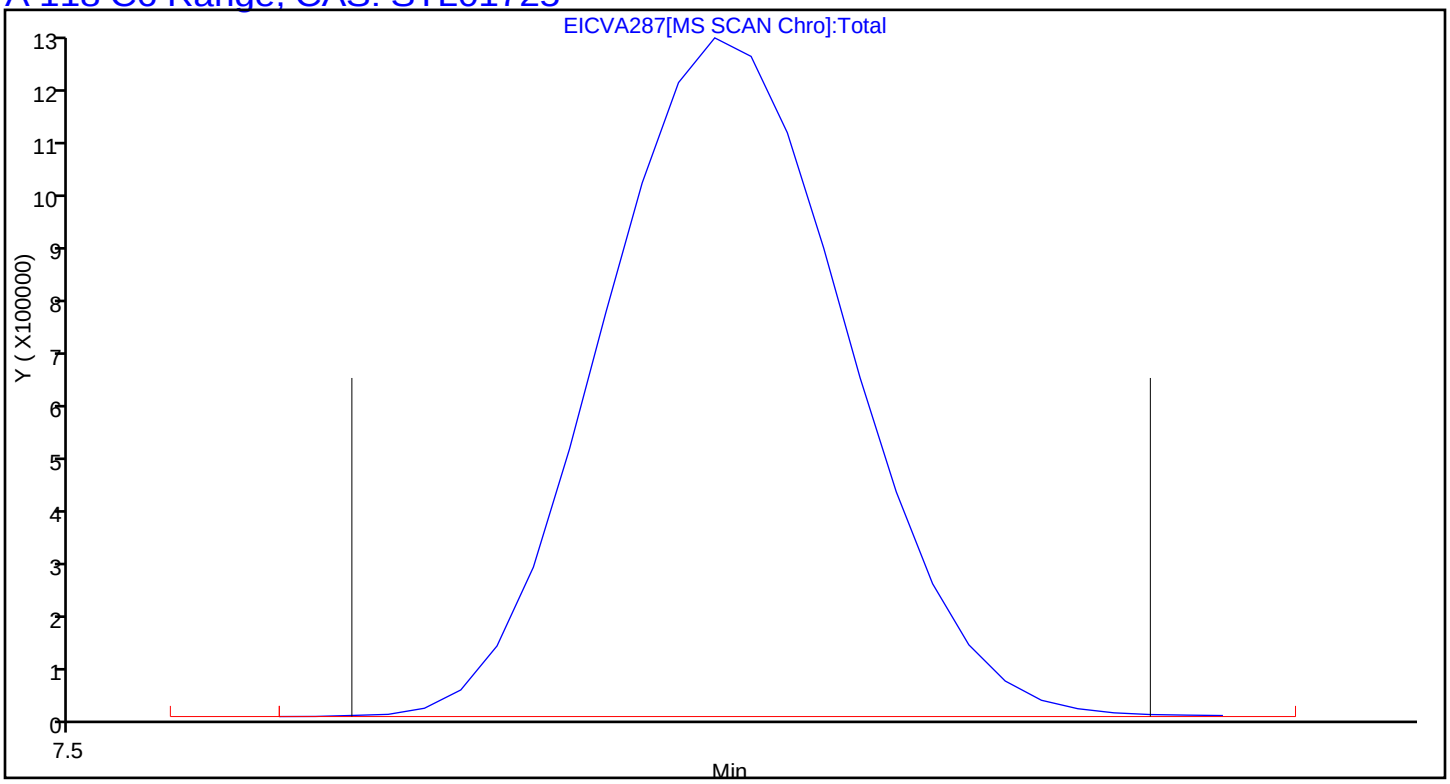


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

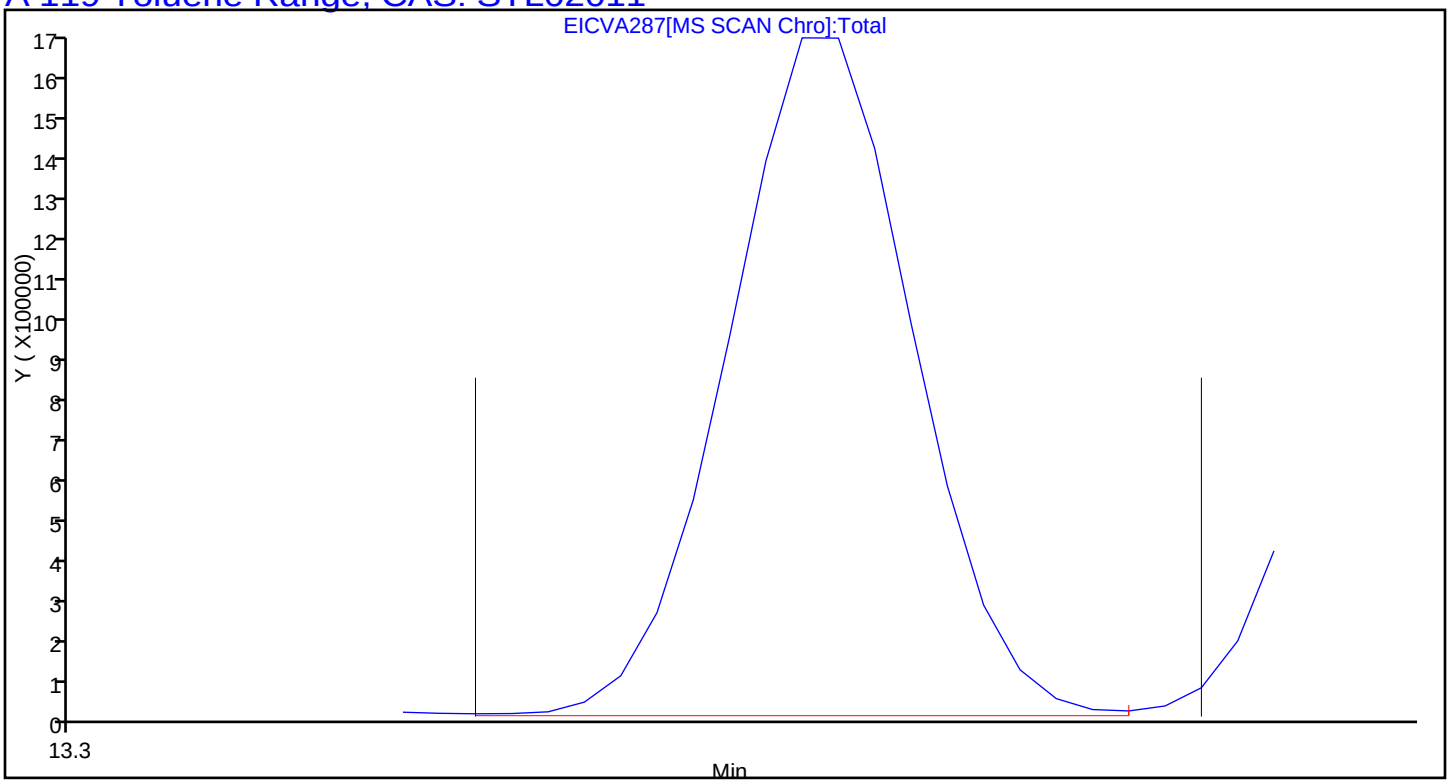


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

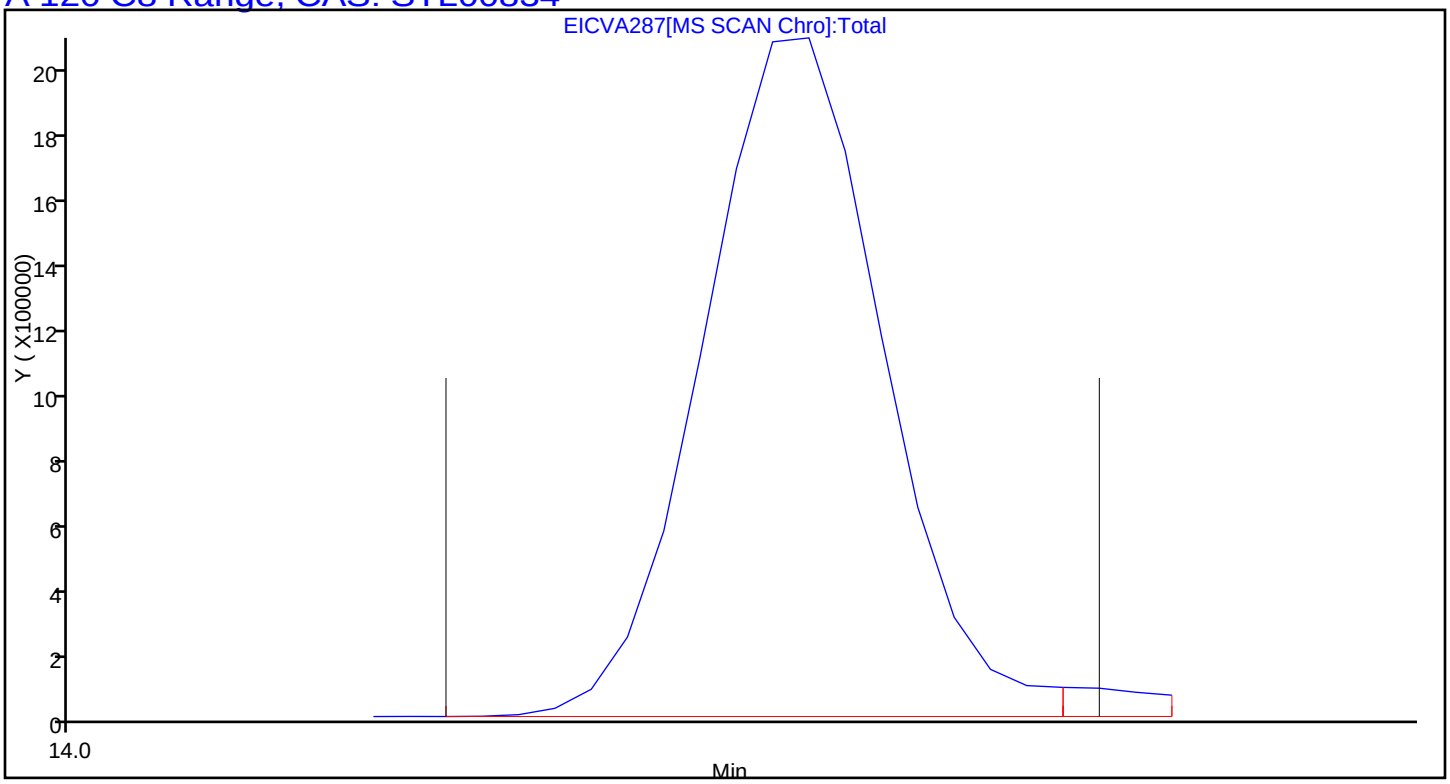


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

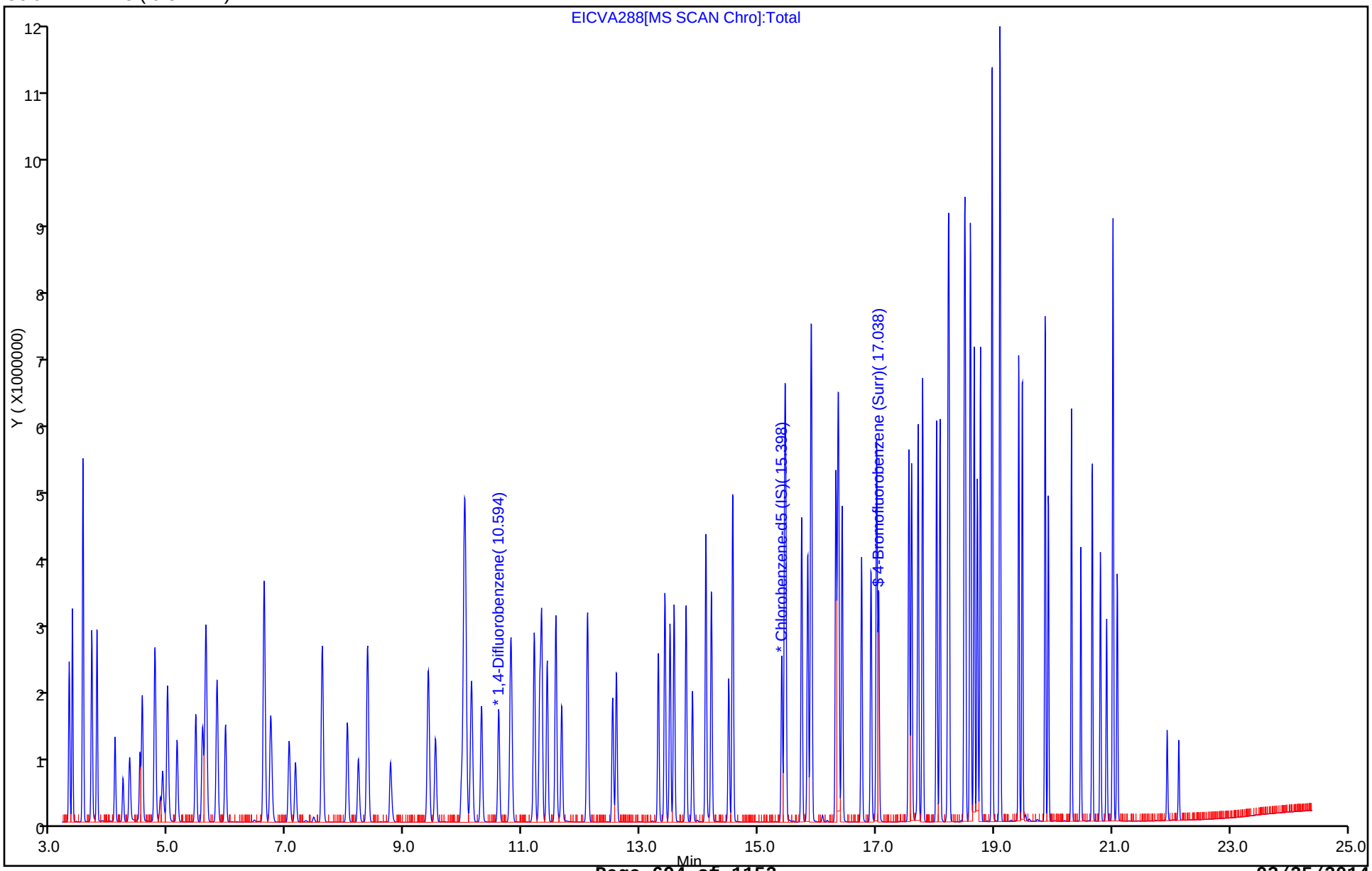
Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

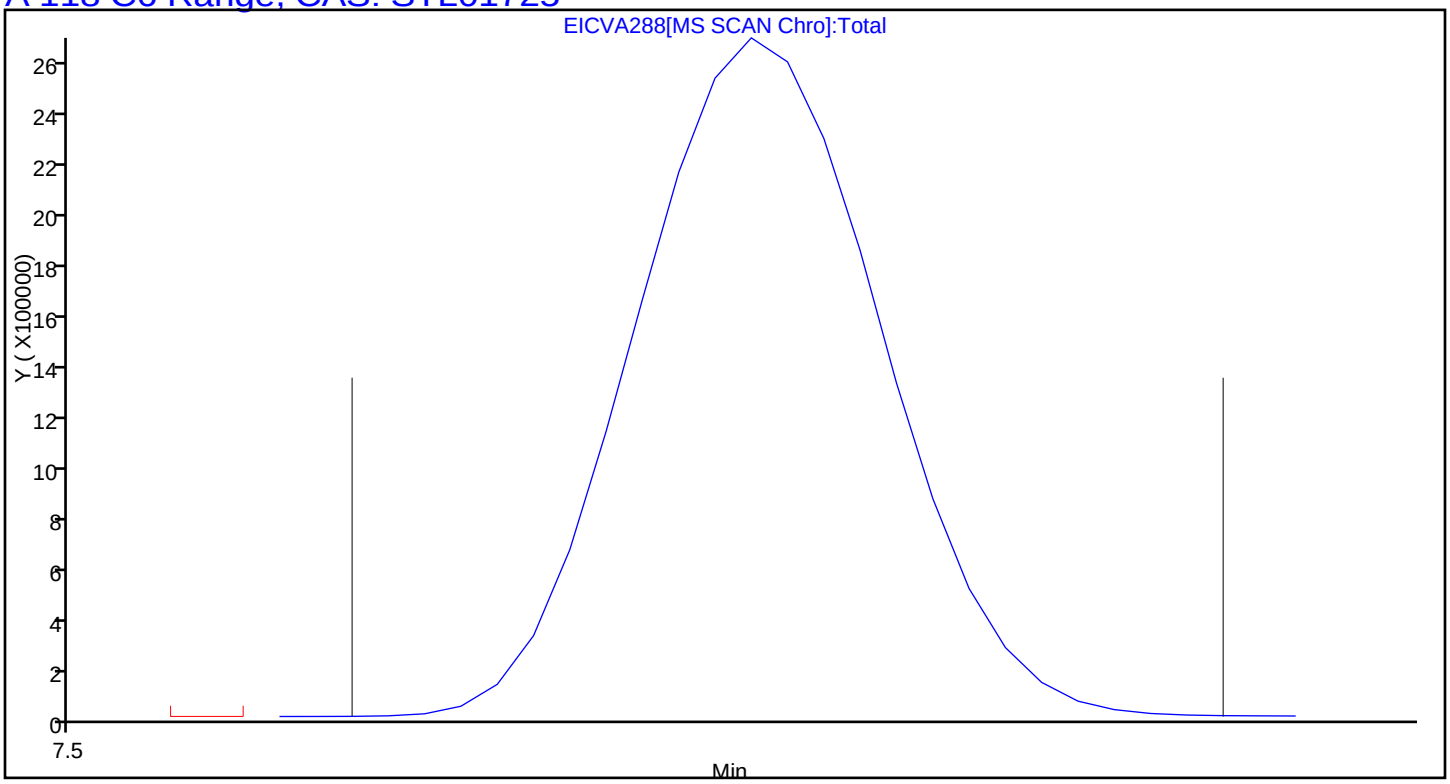


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

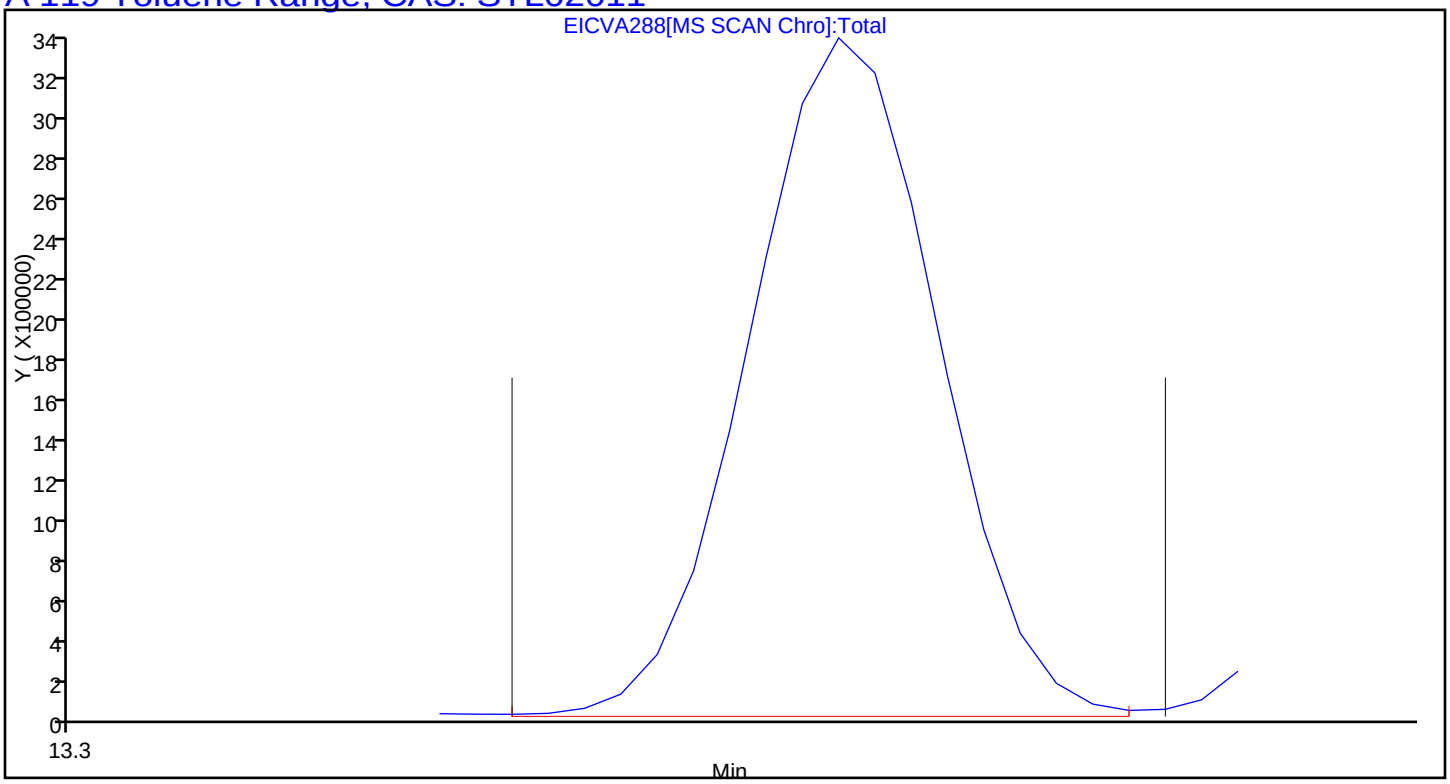


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

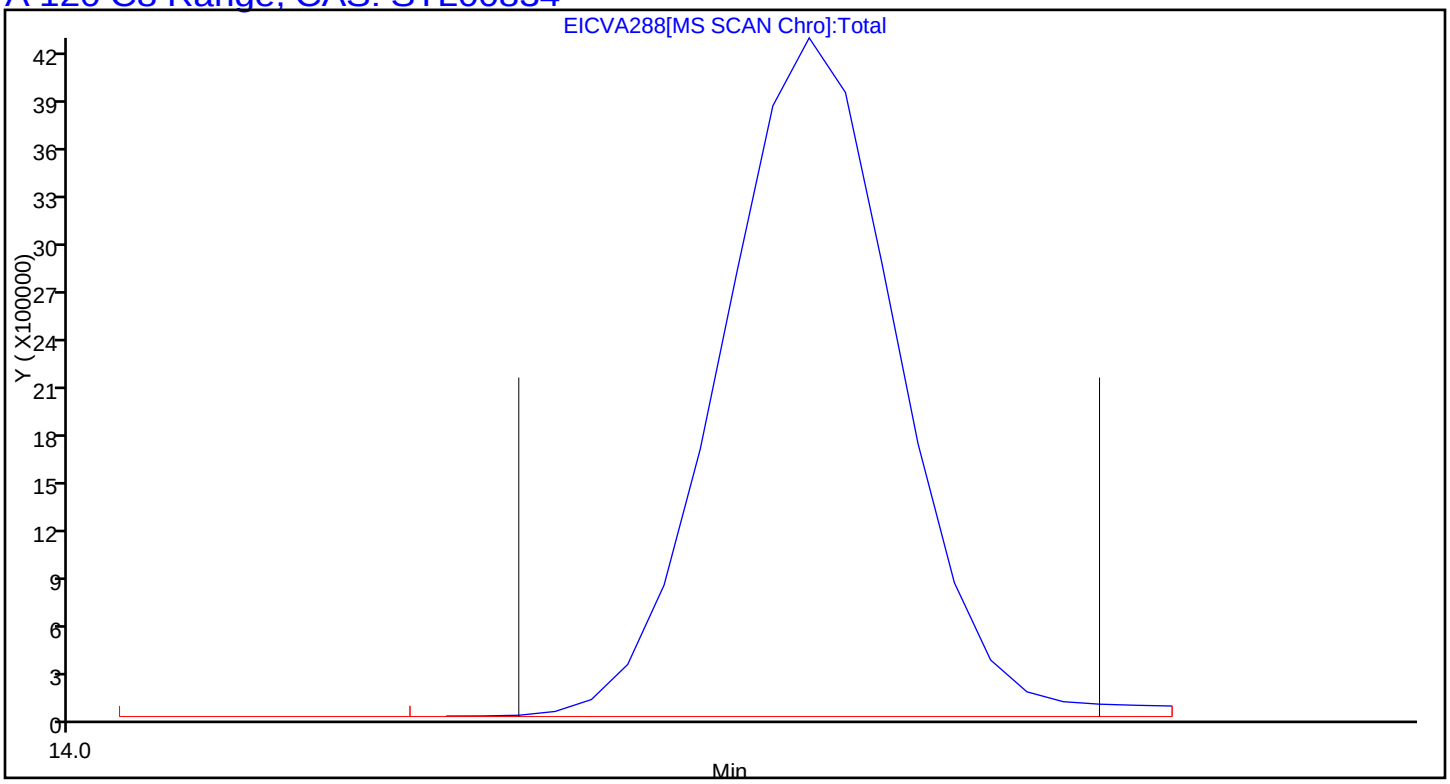


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

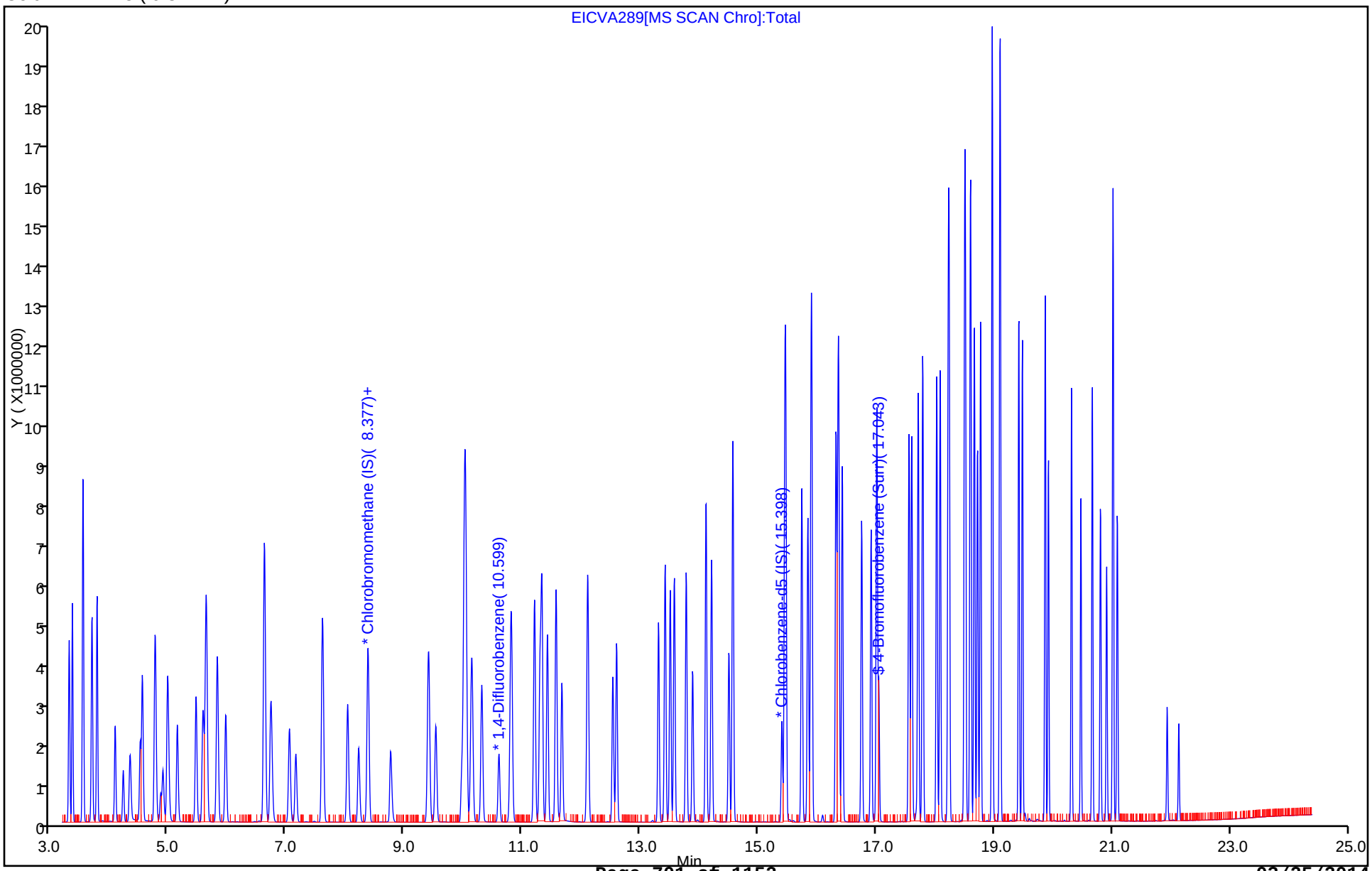
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

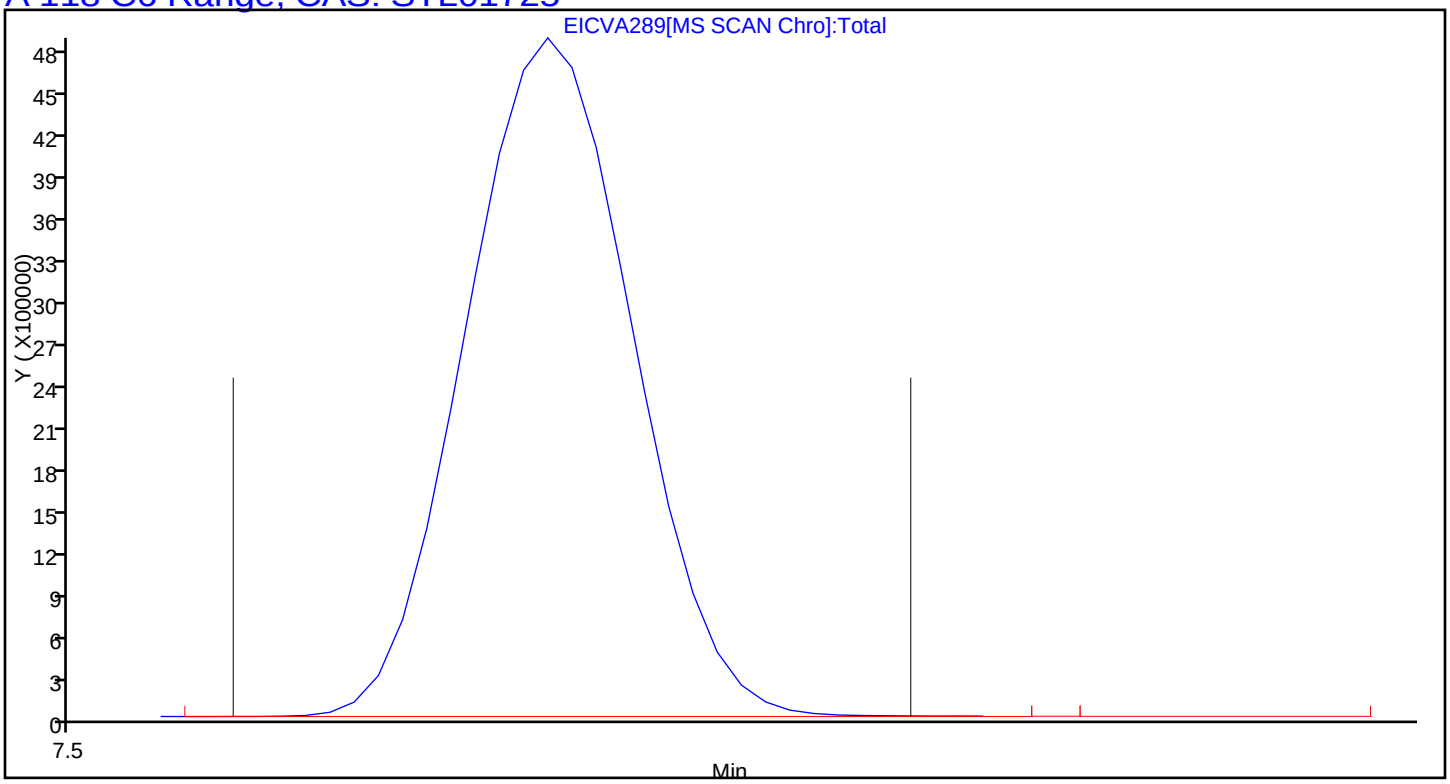


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

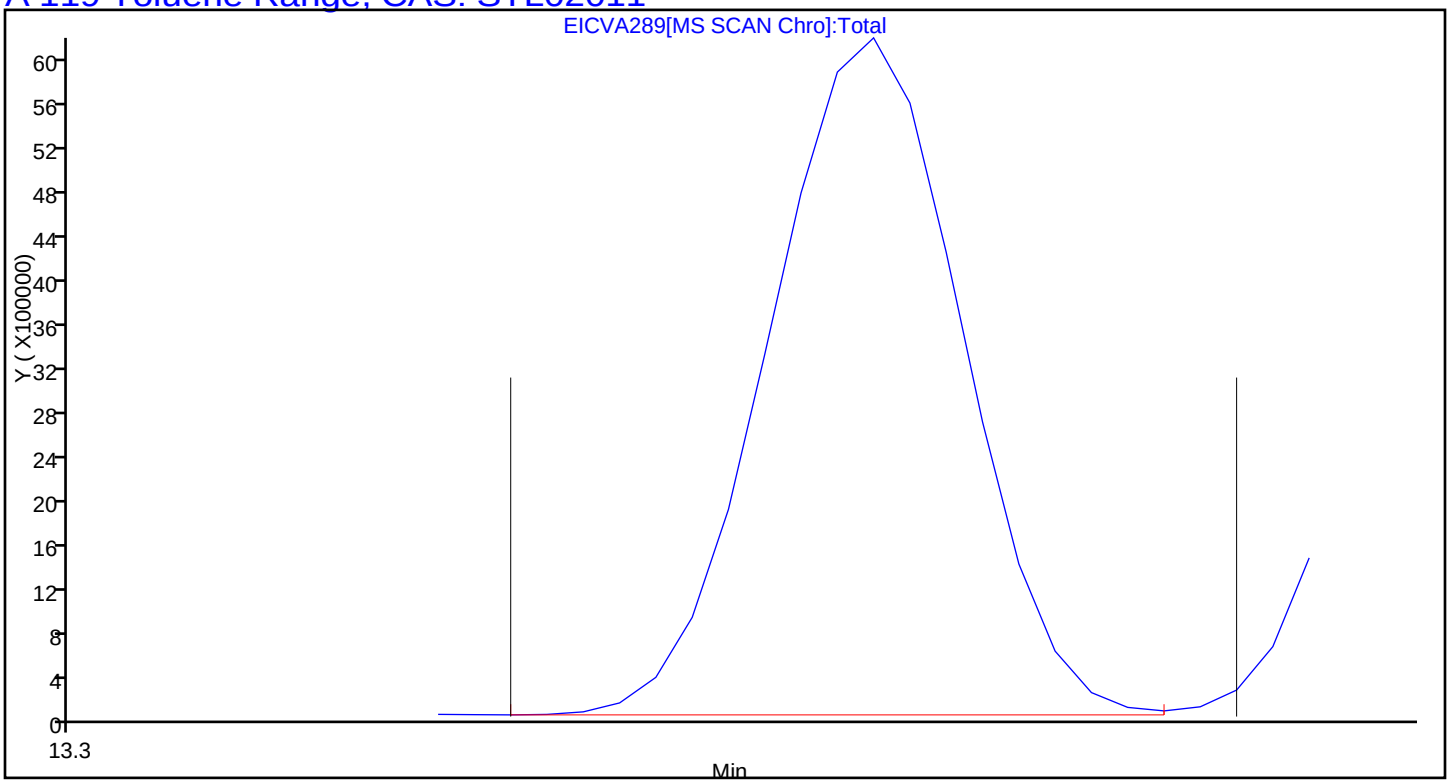


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

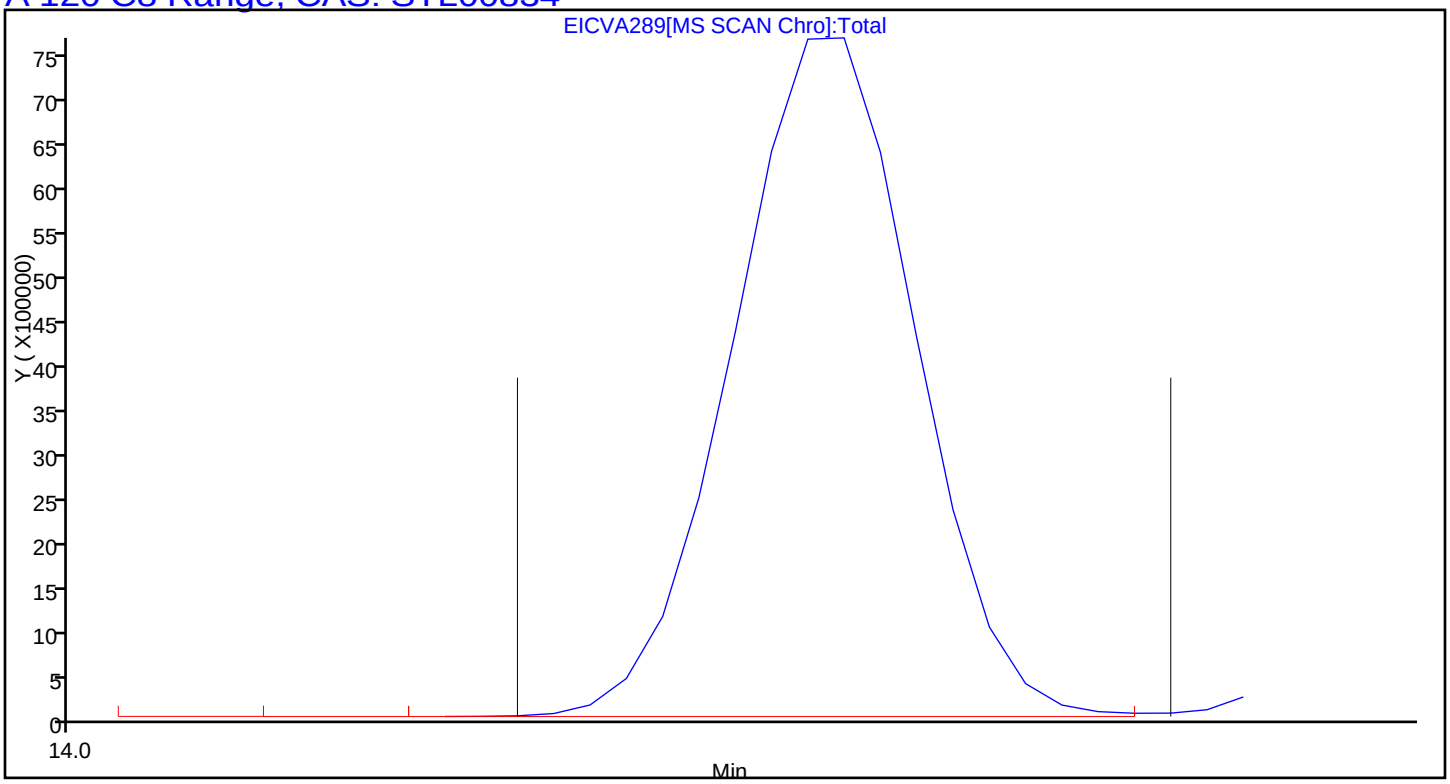


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

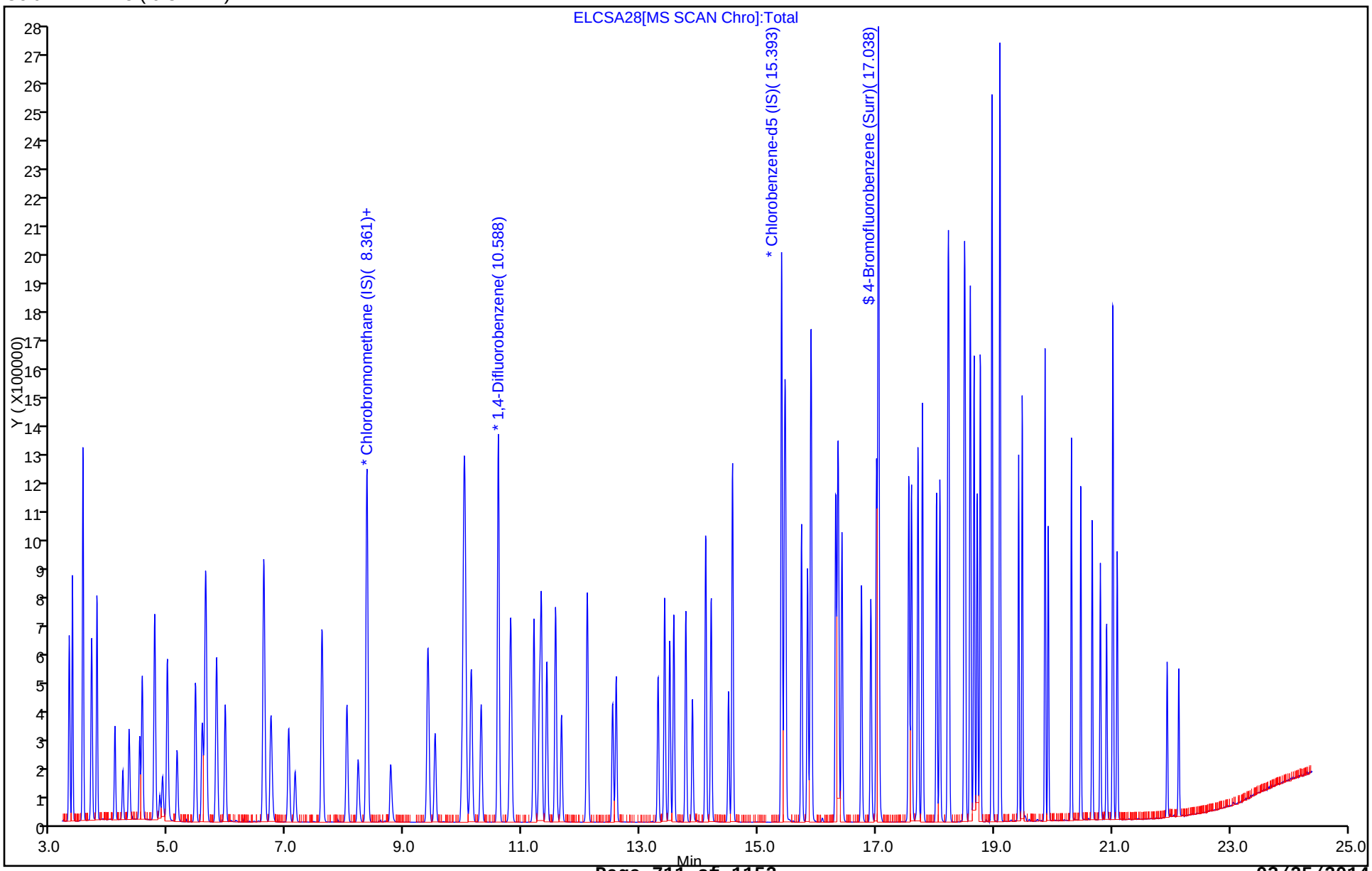
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6952		2.48	2.00	23.9	30.0
Propene	Ave	1.006	0.9498		1.89	2.00	-5.6	30.0
Dichlorodifluoromethane	Ave	4.425	5.507		2.49	2.00	24.5	30.0
Chloromethane	Ave	0.3532	0.3951		2.24	2.00	11.9	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.103		2.33	2.00	16.3	30.0
Acetaldehyde	Ave	0.3349	0.3900		11.6	10.0	16.4	50.0
Vinyl chloride	Ave	1.364	1.686		2.47	2.00	23.6	30.0
1,3-Butadiene	Ave	0.9428	1.069		2.27	2.00	13.3	30.0
Butane	Ave	1.913	2.142		2.24	2.00	12.0	30.0
Bromomethane	Ave	1.473	1.863		2.53	2.00	26.5	30.0
Chloroethane	Ave	0.6922	0.8573		2.48	2.00	23.9	30.0
Ethanol	Ave	0.4001	0.4122		10.3	10.0	3.0	50.0
Vinyl bromide	Ave	1.331	1.743		2.62	2.00	30.9*	30.0
2-Methylbutane	Ave	1.401	1.589		2.27	2.00	13.4	30.0
Trichlorofluoromethane	Ave	4.438	5.867		2.64	2.00	32.2*	30.0
Acrolein	Ave	0.4230	0.5026		2.38	2.00	18.8	30.0
Acetonitrile	Ave	0.3806	0.4680		2.46	2.00	23.0	30.0
Acetone	Ave	0.6059	0.5810		1.92	2.00	-4.1	30.0
Pentane	Ave	0.2626	0.3401		2.59	2.00	29.5	30.0
Isopropyl alcohol	Ave	1.560	1.534		1.97	2.00	-1.7	30.0
Ethyl ether	Ave	1.018	1.145		2.25	2.00	12.4	30.0
1,1-Dichloroethene	Ave	1.190	1.224		2.06	2.00	2.9	30.0
tert-Butyl alcohol	Ave	2.208	1.753		1.59	2.00	-20.6	30.0
Acrylonitrile	Ave	0.7008	0.7150		2.04	2.00	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.072		2.24	2.00	11.8	30.0
Methylene Chloride	Ave	1.143	1.223		2.14	2.00	7.0	30.0
3-Chloropropene	Ave	1.349	1.358		2.01	2.00	0.7	30.0
Carbon disulfide	Ave	4.140	4.466		2.16	2.00	7.9	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.453		1.99	2.00	-0.3	30.0
2-Methylpentane	Ave	2.634	2.384		1.81	2.00	-9.5	50.0
Methyl tert-butyl ether	Ave	3.630	3.977		2.19	2.00	9.6	30.0
1,1-Dichloroethane	Ave	2.467	2.495		2.02	2.00	1.1	30.0
Vinyl acetate	Ave	2.433	2.377		1.95	2.00	-2.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5157		1.58	2.00	-21.2	30.0
Hexane	Ave	1.064	0.9911		1.86	2.00	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.296		1.90	2.00	-4.8	30.0
Ethyl acetate	Ave	2.130	1.902		1.79	2.00	-10.7	30.0
Chloroform	Ave	3.427	3.813		2.23	2.00	11.3	30.0
Tetrahydrofuran	Ave	1.026	0.8528		1.66	2.00	-16.9	30.0
1,1,1-Trichloroethane	Ave	3.888	4.364		2.25	2.00	12.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5564		2.27	2.00	13.5	30.0
1-Butanol	Ave	0.0746	0.0449		1.20	2.00	-39.9*	30.0
Cyclohexane	Ave	0.1509	0.1454		1.93	2.00	-3.7	30.0
Benzene	Ave	0.8050	0.8242		2.05	2.00	2.4	30.0
Carbon tetrachloride	Ave	0.7733	0.9483		2.45	2.00	22.6	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1809		1.93	2.00	-3.5	50.0
Thiophene	Ave	0.5002	0.4972		1.99	2.00	-0.6	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.113		1.79	2.00	-10.4	30.0
Heptane	Ave	0.3047	0.2923		1.92	2.00	-4.1	30.0
1,2-Dichloropropane	Ave	0.2586	0.2530		1.96	2.00	-2.2	30.0
Trichloroethene	Ave	0.3975	0.3758		1.89	2.00	-5.5	30.0
Dibromomethane	Ave	0.3799	0.4041		2.13	2.00	6.4	30.0
Bromodichloromethane	Ave	0.7571	0.8558		2.26	2.00	13.0	30.0
1,4-Dioxane	Ave	0.1068	0.0839		1.57	2.00	-21.5	30.0
Methyl methacrylate	Ave	0.3033	0.2803		1.85	2.00	-7.6	30.0
Methylcyclohexane	Ave	0.5694	0.5341		1.88	2.00	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3618		1.53	2.00	-23.7	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4943		2.17	2.00	8.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5386		1.99	2.00	-0.3	30.0
Toluene	Ave	1.072	1.039		1.94	2.00	-3.0	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3084		1.96	2.00	-2.2	30.0
2-Methylthiophene	Ave	0.9307	0.8963		1.93	2.00	-3.7	50.0
3-Methylthiophene	Ave	0.9375	0.8993		1.92	2.00	-4.1	50.0
2-Hexanone	Ave	0.2529	0.1933		1.53	2.00	-23.6	30.0
Octane	Ave	0.3821	0.3619		1.89	2.00	-5.3	30.0
Dibromochloromethane	Ave	0.7144	0.7225		2.02	2.00	1.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5645		2.00	2.00	0.2	30.0
Tetrachloroethene	Ave	0.4564	0.4272		1.87	2.00	-6.4	30.0
Chlorobenzene	Ave	0.8545	0.8469		1.98	2.00	-0.9	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7192		1.75	2.00	-12.4	50.0
Ethylbenzene	Ave	1.374	1.406		2.05	2.00	2.3	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.8	50.0
m-Xylene & p-Xylene	Ave	1.080	1.192		4.41	4.00	10.3	30.0
Nonane	Ave	0.5994	0.5418		1.81	2.00	-9.6	30.0
Bromoform	Ave	0.6422	0.5491		1.71	2.00	-14.5	30.0
Styrene	Ave	0.7475	0.7937		2.12	2.00	6.2	30.0
o-Xylene	Ave	1.168	1.227		2.10	2.00	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7137		2.08	2.00	3.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2626		2.10	2.00	4.9	30.0
Isopropylbenzene	Ave	1.542	1.598		2.07	2.00	3.6	30.0
Propylbenzene	Ave	0.4031	0.4020		1.99	2.00	-0.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3764		1.96	2.00	-2.0	30.0
4-Ethyltoluene	Ave	1.477	1.511		2.05	2.00	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6804		2.03	2.00	1.6	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5826		2.11	2.00	5.4	30.0
Decane	Ave	0.6339	0.6650		2.10	2.00	4.9	30.0
tert-Butylbenzene	Ave	1.348	1.404		2.08	2.00	4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.341		2.18	2.00	9.2	30.0
sec-Butylbenzene	Ave	1.656	1.766		2.13	2.00	6.6	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8224		2.06	2.00	3.0	30.0
Benzyl chloride	Ave	1.010	1.068		2.12	2.00	5.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.8004		2.04	2.00	1.9	30.0
4-Isopropyltoluene	Ave	1.399	1.514		2.16	2.00	8.2	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.098		2.11	2.00	5.4	50.0
Butylcyclohexane	Ave	0.9625	1.010		2.10	2.00	5.0	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7904		2.08	2.00	3.9	30.0
Indane	Ave	1.073	1.121		2.09	2.00	4.5	50.0
Indene	Ave	1.019	1.098		2.16	2.00	7.8	50.0
Butylbenzene	Ave	1.239	1.429		2.31	2.00	15.3	30.0
Undecane	Ave	0.5595	0.6079		2.17	2.00	8.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.304		2.17	2.00	8.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.316		2.21	2.00	10.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8243		2.12	2.00	6.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	0.9877		1.99	2.00	-0.5	50.0
Dodecane	Ave	0.4200	0.2761		1.31	2.00	-34.3*	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.3831		1.51	2.00	-24.5	30.0
Naphthalene	Ave	0.8890	0.6638		1.49	2.00	-25.3	30.0
Benzo(b)thiophene	Ave	0.6431	0.4027		1.25	2.00	-37.4	50.0
Hexachlorobutadiene	Ave	0.6633	0.6727		2.03	2.00	1.4	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.2398		1.27	2.00	-36.7*	30.0
2-Methylnaphthalene	Ave	0.0420	0.0193		5.75	12.5	-54.0*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0165		5.65	12.5	-54.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9602		4.38	4.00	9.6	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Mar-2014 09:55:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031414,TO155,,140-0000522-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 15:36:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 15:36:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	205602	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	1014056	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	970133	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	931480	4.38	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	71470	2.48	
7 Propene	41	3.314	3.314	0.0	92	97644	1.89	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	566107	2.49	
9 Chloromethane	52	3.530	3.530	0.0	97	40617	2.24	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	318943	2.33	
11 Acetaldehyde	44	3.681	3.681	0.0	91	200456	11.6	
12 Vinyl chloride	62	3.691	3.691	0.0	99	173341	2.47	
14 Butane	43	3.772	3.772	0.0	82	220221	2.24	
13 Butadiene	54	3.772	3.772	0.0	71	109849	2.27	
15 Bromomethane	94	4.080	4.080	0.0	98	191471	2.53	
16 Chloroethane	64	4.209	4.209	0.0	95	88135	2.48	
17 Ethanol	31	4.317	4.317	0.0	98	211853	10.3	
18 Vinyl bromide	106	4.495	4.495	0.0	96	179146	2.62	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163362	2.27	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	603178	2.64	
20 Acrolein	56	4.765	4.765	0.0	97	51672	2.38	
22 Acetonitrile	40	4.840	4.840	0.0	96	48111	2.46	
23 Acetone	58	4.883	4.883	0.0	78	59731	1.92	
25 Pentane	72	4.959	4.959	0.0	97	34964	2.59	
24 Isopropyl alcohol	45	4.975	4.975	0.0	74	157651	1.97	
26 Ethyl ether	31	5.126	5.126	0.0	84	117656	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	125864	2.06	
29 2-Methyl-2-propanol	59	5.557	5.557	0.0	94	180186	1.59	
28 Acrylonitrile	53	5.563	5.563	0.0	84	73506	2.04	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	93	315786	2.24	
31 Methylene Chloride	84	5.795	5.795	0.0	84	125776	2.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	139634	2.01	
33 Carbon disulfide	76	5.940	5.940	0.0	99	459076	2.16	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	149416	1.99	
35 2-Methylpentane	43	6.603	6.603	0.0	86	245067	1.81	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	408873	2.19	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	256538	2.02	
38 Vinyl acetate	43	7.132	7.132	0.0	99	244308	1.95	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	53018	1.58	
40 Hexane	56	7.590	7.590	0.0	81	101884	1.86	
41 cis-1,2-Dichloroethene	96	8.011	8.011	0.0	97	133213	1.90	
42 Ethyl acetate	43	8.205	8.205	0.0	97	195528	1.79	
43 Chloroform	83	8.356	8.356	0.0	97	392003	2.23	
44 Tetrahydrofuran	42	8.755	8.755	0.0	75	87665	1.66	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	448661	2.25	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	282083	2.27	
47 n-Butanol	31	9.963	9.963	0.0	85	22740	1.20	
49 Cyclohexane	69	9.984	9.984	0.0	86	73723	1.93	
48 Benzene	78	9.995	9.995	0.0	97	417909	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	480794	2.45	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	84	91722	1.93	
52 Thiophene	84	10.286	10.286	0.0	95	252099	1.99	
53 Isooctane	57	10.788	10.788	0.0	95	564466	1.79	
54 n-Heptane	71	11.182	11.182	0.0	81	148202	1.92	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	128263	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	89	190552	1.89	
57 Dibromomethane	93	11.397	11.397	0.0	91	204894	2.13	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	433906	2.26	
59 1,4-Dioxane	88	11.570	11.570	0.0	92	42522	1.57	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	142115	1.85	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	270823	1.88	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	183419	1.53	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	250632	2.17	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	261262	1.99	
65 Toluene	91	13.403	13.403	0.0	93	504008	1.94	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	149600	1.96	
67 2-Methylthiophene	97	13.560	13.560	0.0	98	434757	1.93	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	436209	1.92	
69 2-Hexanone	58	13.878	13.878	0.0	94	93766	1.53	
70 n-Octane	85	14.099	14.099	0.0	79	175521	1.89	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	350453	2.02	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	273809	2.00	
73 Tetrachloroethene	129	14.552	14.552	0.0	91	207225	1.87	
74 Chlorobenzene	112	15.436	15.436	0.0	81	410789	1.98	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	80	348844	1.75	
76 Ethylbenzene	91	15.722	15.722	0.0	99	681944	2.05	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	548958	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1156010	4.41	
81 n-Nonane	57	16.304	16.304	0.0	79	262810	1.81	
79 Bromoform	173	16.337	16.337	0.0	94	266355	1.71	
80 Styrene	104	16.353	16.353	0.0	97	384971	2.12	
82 o-Xylene	91	16.412	16.412	0.0	97	595223	2.10	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	346176	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	127375	2.10	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	774948	2.07	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	194979	1.99	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	182596	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	732948	2.05	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	330056	2.03	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	81	282618	2.11	
91 n-Decane	57	18.073	18.073	0.0	96	322565	2.10	
92 tert-Butylbenzene	119	18.213	18.213	0.0	85	681039	2.08	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	92	650269	2.18	
95 sec-Butylbenzene	105	18.488	18.488	0.0	96	856657	2.13	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	97	398928	2.06	
96 Benzyl chloride	91	18.585	18.585	0.0	96	518219	2.12	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	88	388235	2.04	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	734201	2.16	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	532570	2.11	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	490142	2.10	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	543956	2.09	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	80	383389	2.08	
103 Indene	116	19.087	19.087	0.0	86	532788	2.16	
104 n-Butylbenzene	91	19.092	19.092	0.0	95	693152	2.31	
106 Undecane	57	19.410	19.410	0.0	87	294886	2.17	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	632305	2.17	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	638558	2.21	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	399852	2.12	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	479074	1.99	
110 Dodecane	57	20.462	20.462	0.0	87	133912	1.31	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	185817	1.51	
112 Naphthalene	128	20.796	20.796	0.0	98	321980	1.49	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	195330	1.25	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	326307	2.03	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	116322	1.27	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	97	58507	5.75	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	97	50104	5.65	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1242991	1.79	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1286522	2.13	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1468700	2.03	
S 124 Xylenes, Total	100				0		6.51	

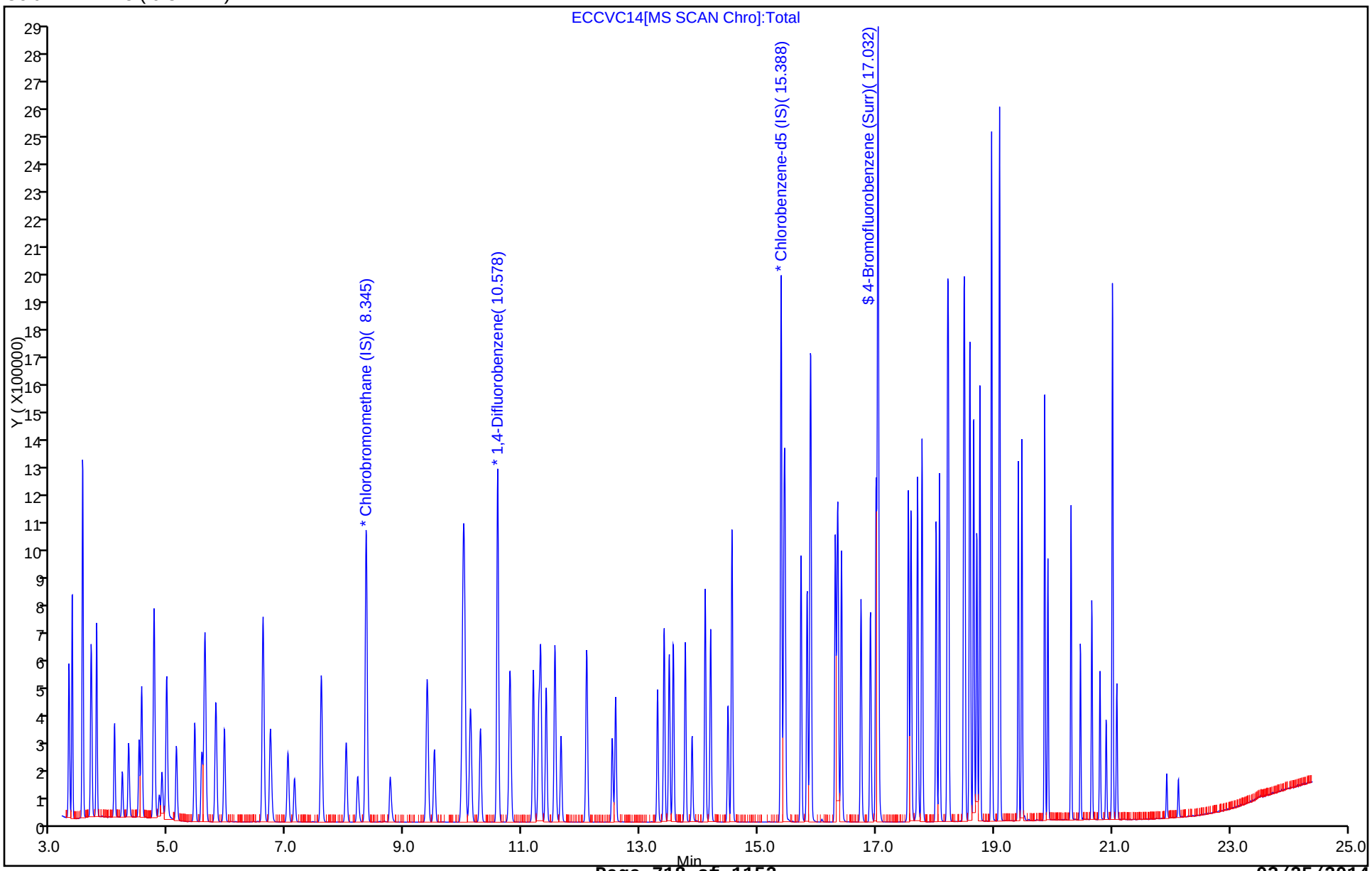
Report Date: 17-Mar-2014 15:36:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14.D

Injection Date:	14-Mar-2014 09:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

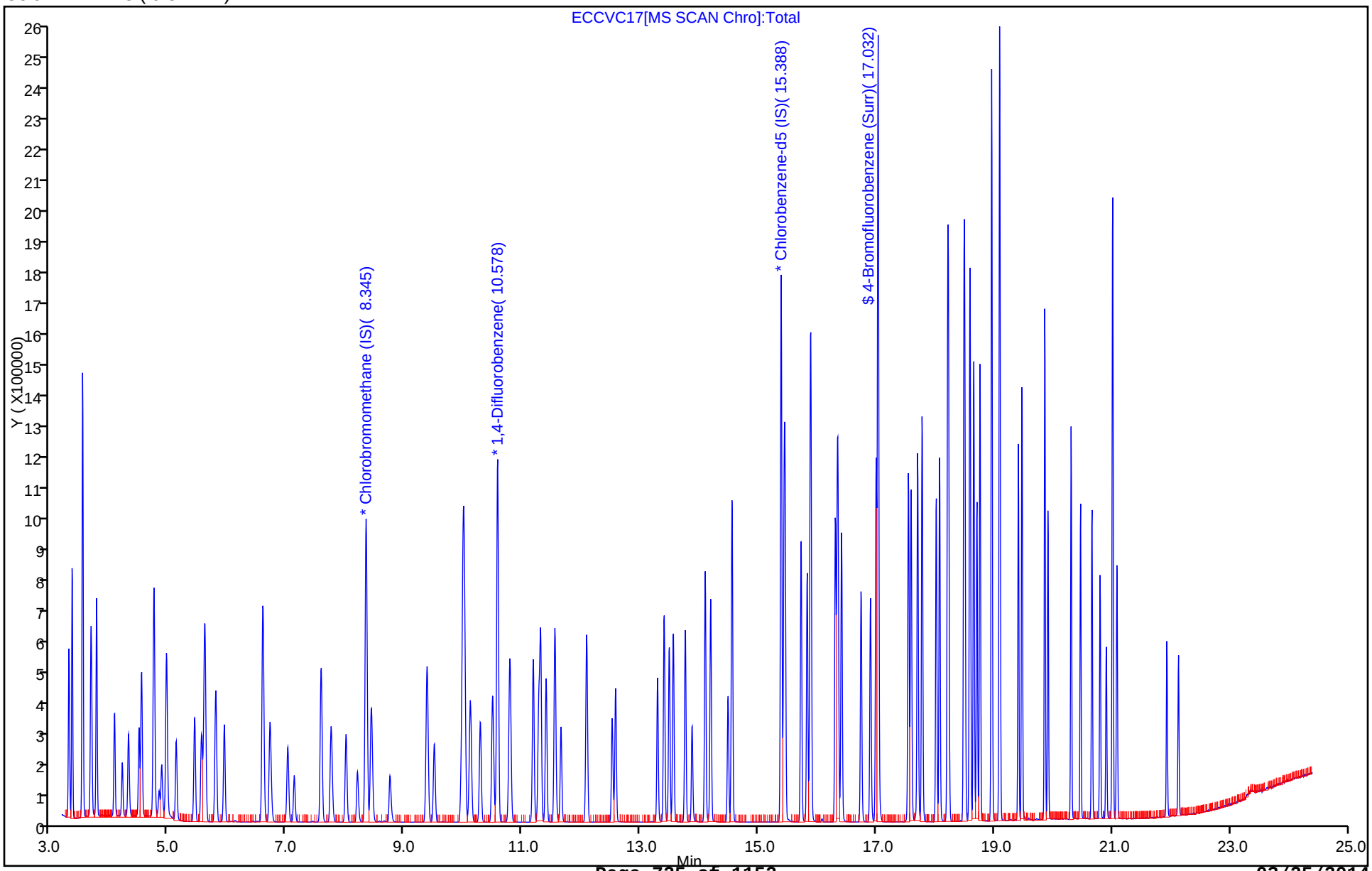
Report Date: 18-Mar-2014 11:58:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jan-2014 13:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E012814I,BFB,140-0000390-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jan-2014 13:09:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	30-Jan-2014 11:32:37		

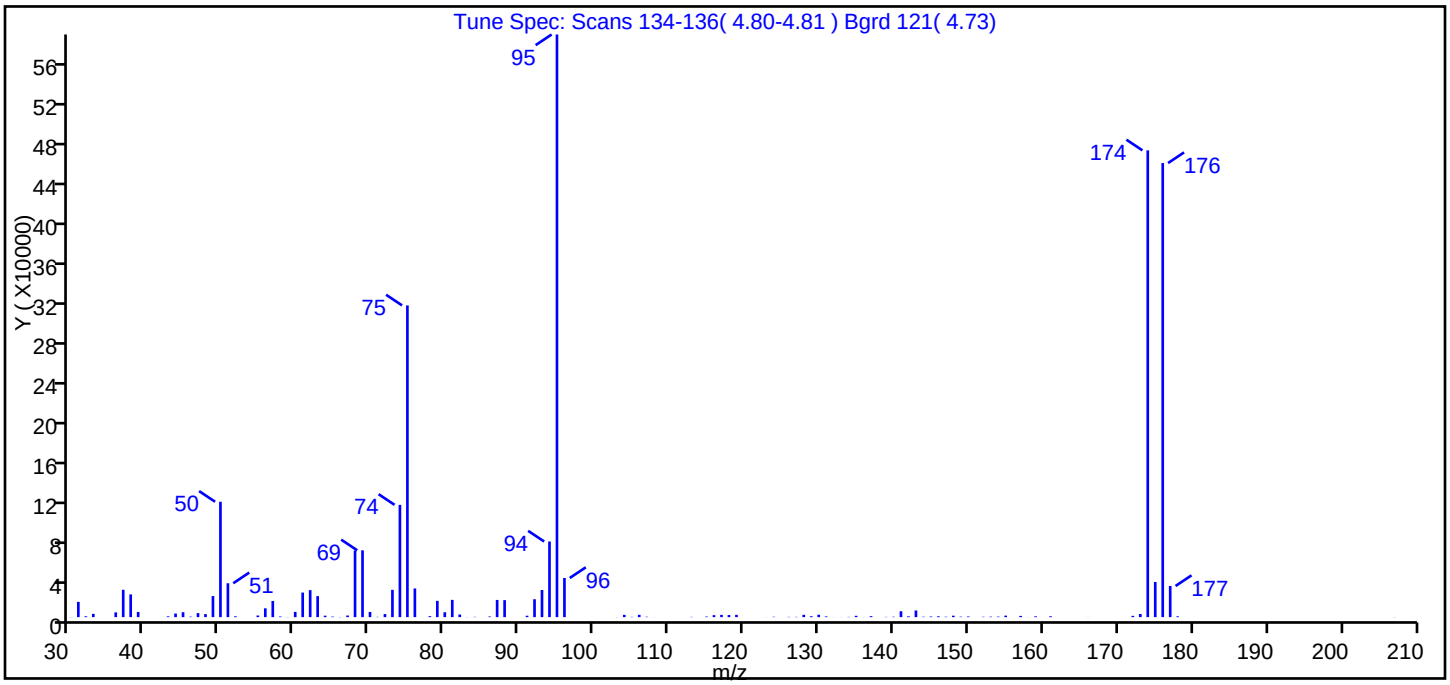
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

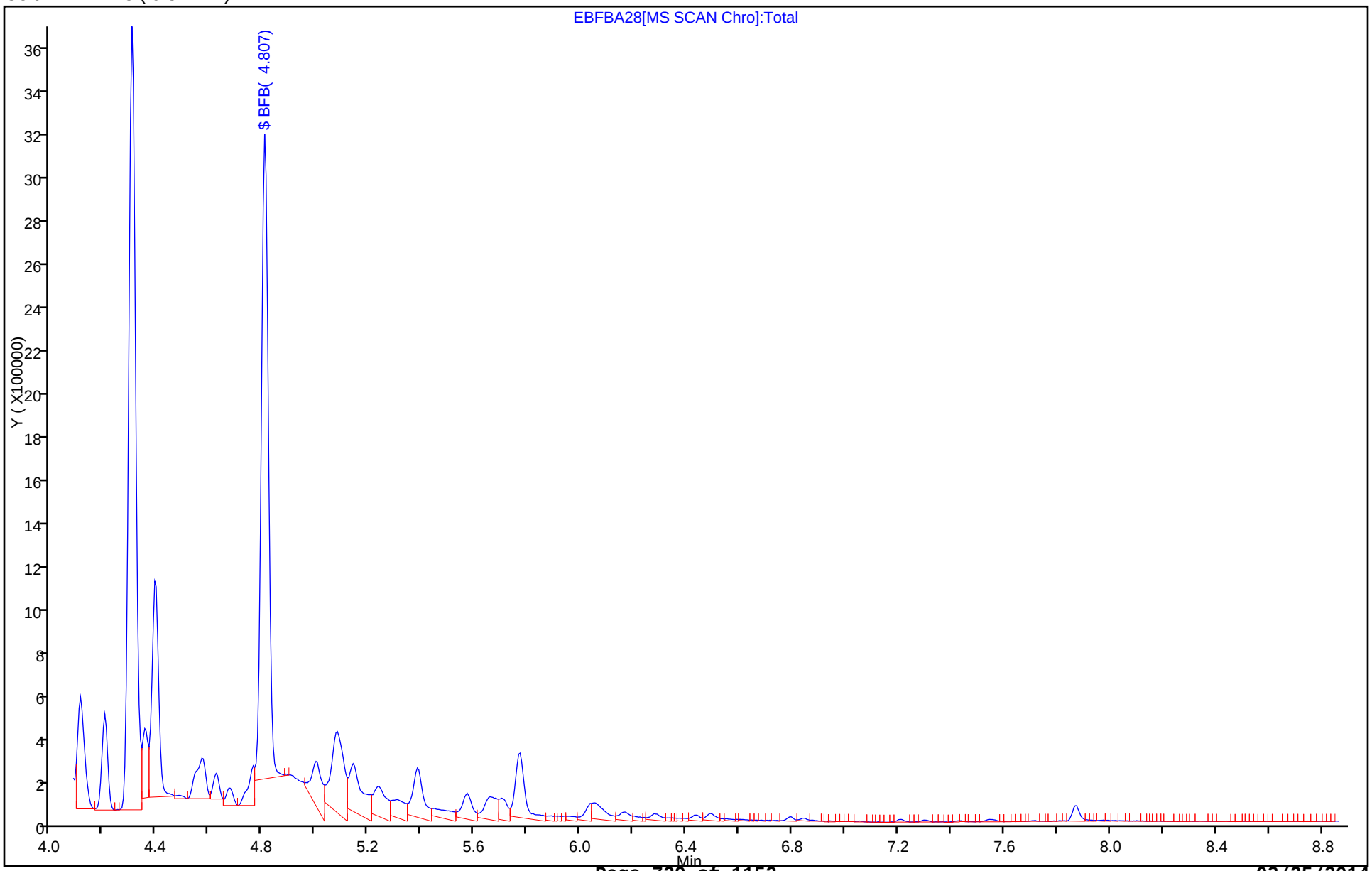
m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Mar-2014 09:24:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031414,BFB,,140-0000522-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	14-Mar-2014 10:33:45	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK018				
First Level Reviewer: tajh		Date:	14-Mar-2014 10:33:45		

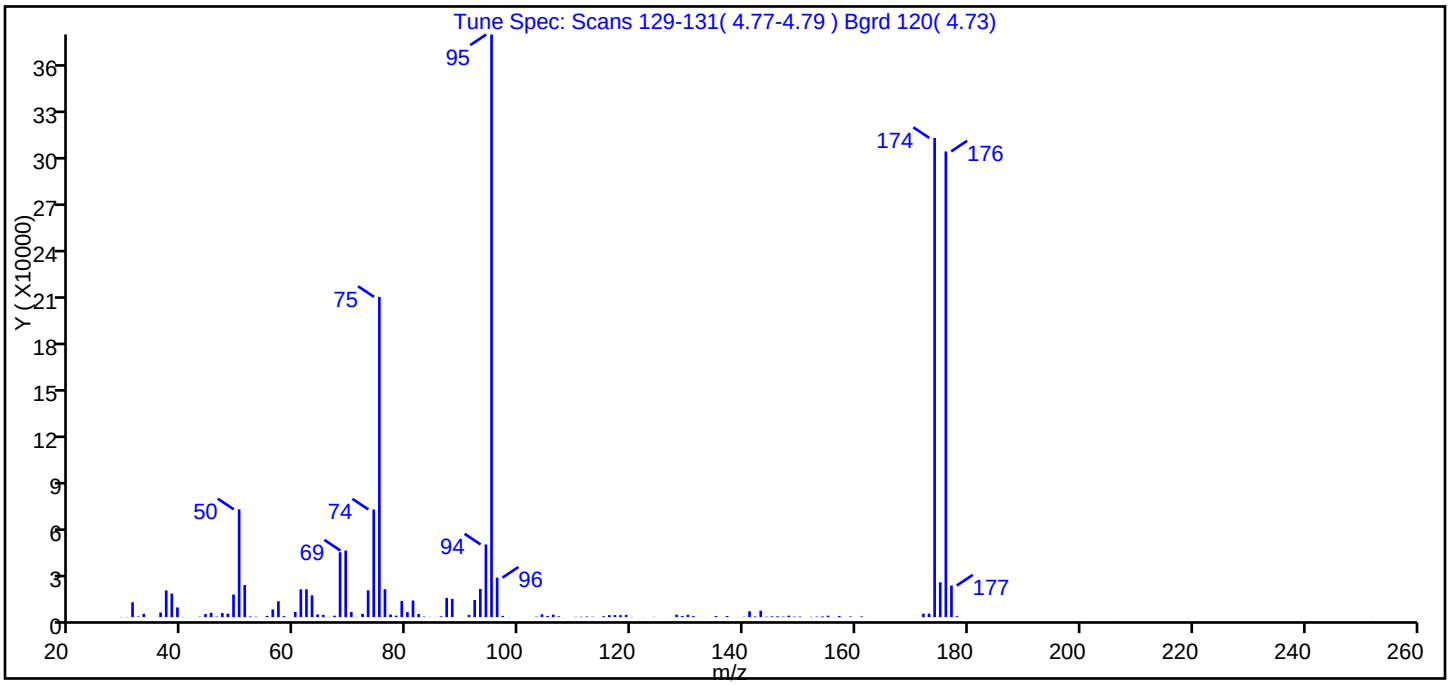
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.780	4.780	0.0	0	791681	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D
Injection Date: 14-Mar-2014 09:24:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.50
75	30.00 - 60.00% of mass 95	55.00
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	82.20
175	5.00 - 9.00% of mass 174	6.00 (7.30)
176	95.00 - 101.00% of mass 174	79.90 (97.20)
177	5.00 - 9.00% of mass 176	5.40 (6.80)

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D\ME_TO15.rslt\spectra.d
Injection Date: 14-Mar-2014 09:24:30
Spectrum: Tune Spec: Scans 129-131(4.77-4.79) Bgrd 120(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	151	63.00	14130	95.00	377536	141.00	3765
30.00	114	64.00	1721	96.00	25592	142.00	473
31.00	9657	65.00	1474	97.00	817	143.00	4158
32.00	407	66.00	149	98.00	68	144.00	291
33.00	2169	67.00	927	103.00	308	145.00	526
36.00	2989	68.00	42056	104.00	1827	146.00	590
37.00	17336	69.00	43144	105.00	753	147.00	332
38.00	15290	70.00	3347	106.00	1593	148.00	928
39.00	6309	71.00	166	107.00	540	149.00	324
40.00	154	72.00	2125	108.00	75	150.00	412
41.00	100	73.00	17400	110.00	210	152.00	225
42.00	2	74.00	69736	111.00	294	153.00	354
43.00	304	75.00	207488	112.00	415	154.00	473
44.00	2008	76.00	18112	113.00	267	155.00	969
45.00	2840	77.00	1700	115.00	630	156.00	69
46.00	347	78.00	961	116.00	1281	157.00	741
47.00	2639	79.00	10482	117.00	1341	159.00	469
48.00	2242	80.00	3251	118.00	1263	161.00	476
49.00	14652	81.00	10787	119.00	1449	172.00	2228
50.00	69840	82.00	2045	120.00	150	173.00	2244
51.00	20792	83.00	342	122.00	74	174.00	310464
52.00	470	84.00	181	124.00	161	175.00	22528
53.00	271	85.00	90	128.00	1550	176.00	301760
55.00	802	86.00	527	129.00	770	177.00	20488
56.00	5024	87.00	12491	130.00	1496	178.00	654
57.00	10284	88.00	11821	131.00	656	207.00	31
58.00	661	91.00	1411	135.00	721	219.00	75
60.00	3327	92.00	11138	137.00	715	252.00	66
61.00	17984	93.00	18248	139.00	73		
62.00	18048	94.00	47088	140.00	256		

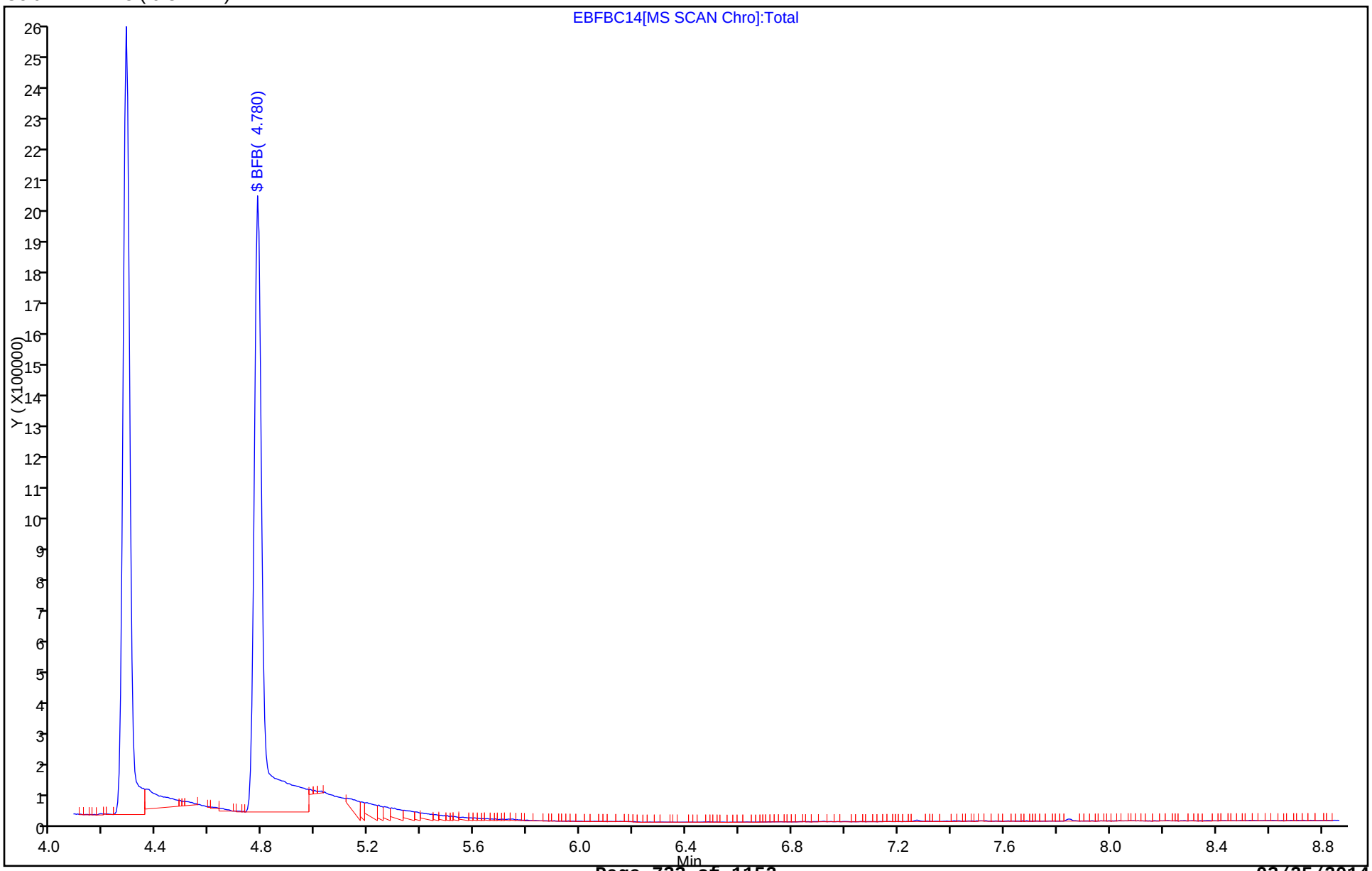
Report Date: 14-Mar-2014 10:33:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D

Injection Date:	14-Mar-2014 09:24:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Mar-2014 13:39:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031714,BFB,,140-0000525-001				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 10:44:37	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 10:44:37		

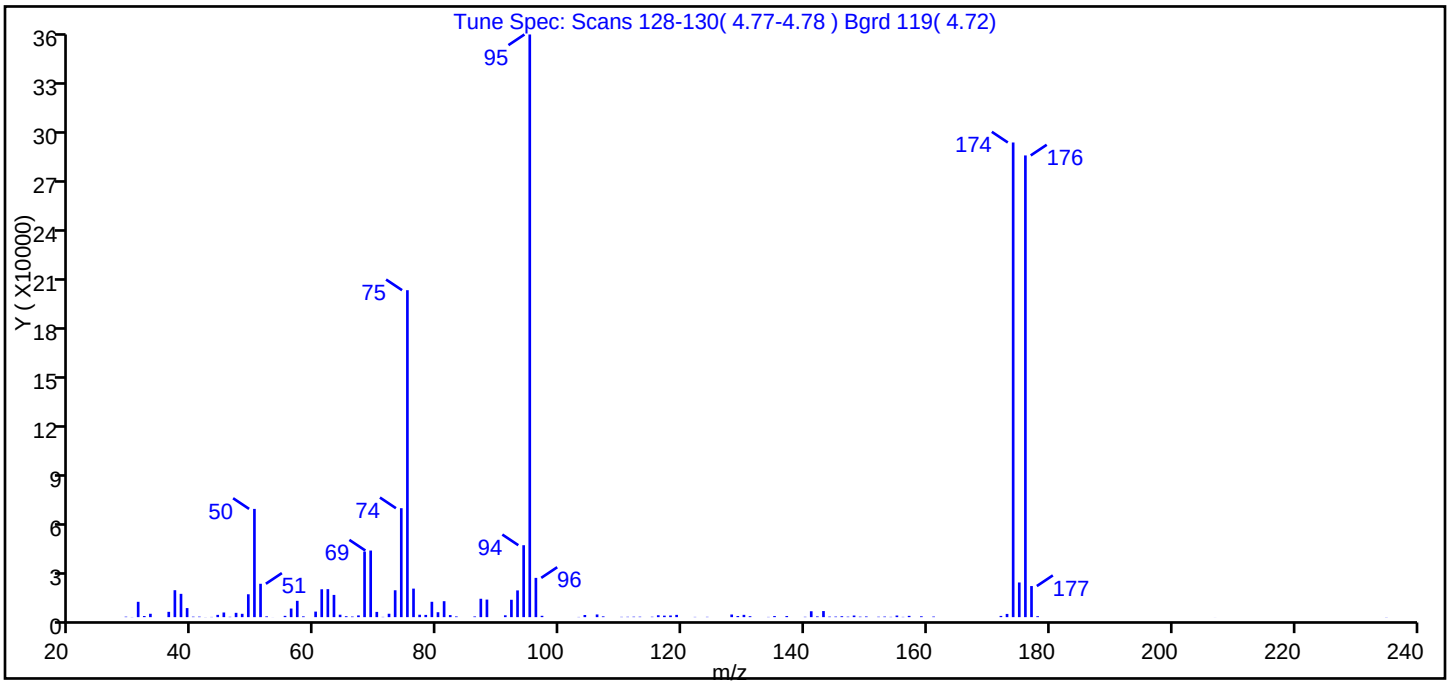
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.775	4.775	0.0	0	731051	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D
Injection Date: 17-Mar-2014 13:39:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	56.10
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	81.50
175	5.00 - 9.00% of mass 174	5.90 (7.30)
176	95.00 - 101.00% of mass 174	79.20 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D\ME_TO15.rslt\spectra.d
Injection Date: 17-Mar-2014 13:39:30
Spectrum: Tune Spec: Scans 128-130(4.77-4.78) Bgrd 119(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	288	61.00	17080	93.00	16384	141.00	3616
30.00	94	62.00	17152	94.00	44072	142.00	446
31.00	9393	63.00	13621	95.00	356992	143.00	3728
32.00	683	64.00	1487	96.00	24056	144.00	321
33.00	2068	65.00	566	97.00	825	145.00	341
36.00	3249	66.00	364	103.00	126	146.00	562
37.00	16504	67.00	1058	104.00	1314	147.00	294
38.00	14276	68.00	40192	106.00	1638	148.00	989
39.00	5550	69.00	40800	107.00	476	149.00	297
40.00	296	70.00	3218	110.00	179	150.00	416
41.00	308	71.00	155	111.00	217	152.00	252
42.00	63	72.00	2083	112.00	276	153.00	352
43.00	132	73.00	16464	113.00	274	154.00	171
44.00	1392	74.00	66744	115.00	246	155.00	984
45.00	2846	75.00	200320	116.00	1166	156.00	163
46.00	208	76.00	17480	117.00	918	157.00	790
47.00	2645	77.00	1474	118.00	1008	159.00	515
48.00	2044	78.00	1373	119.00	1387	161.00	357
49.00	14019	79.00	9410	122.00	150	172.00	756
50.00	66320	80.00	3013	124.00	185	173.00	1974
51.00	20448	81.00	9771	128.00	1613	174.00	290816
52.00	473	82.00	1271	129.00	687	175.00	21240
53.00	32	83.00	427	130.00	1407	176.00	282880
55.00	799	86.00	426	131.00	572	177.00	19048
56.00	5273	87.00	11266	134.00	139	178.00	569
57.00	9999	88.00	10762	135.00	664	207.00	25
58.00	471	91.00	1125	137.00	677	235.00	89
60.00	3399	92.00	10647	140.00	213		

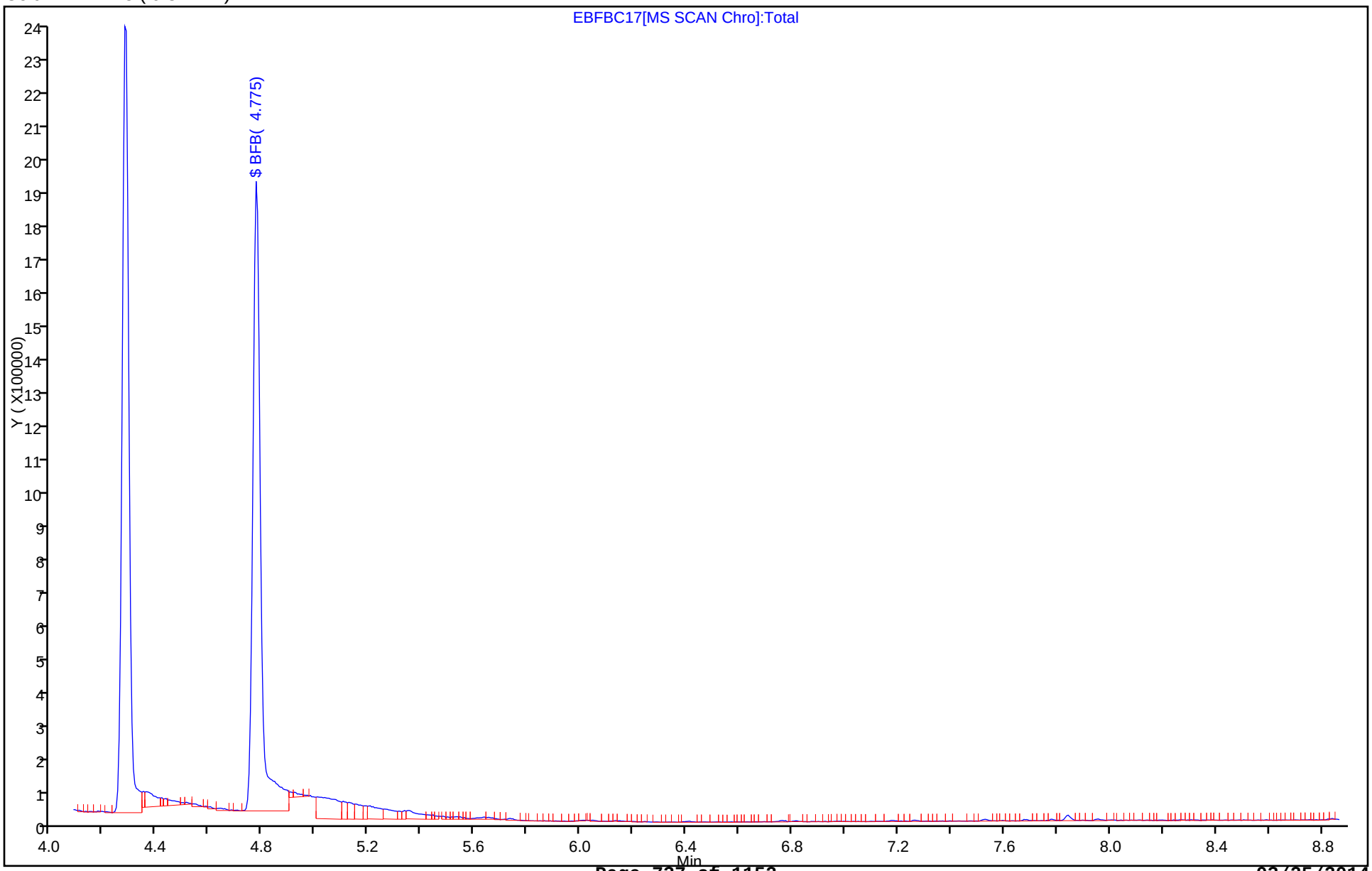
Report Date: 18-Mar-2014 10:44:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D

Injection Date:	17-Mar-2014 13:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\MB200mL.D
Lims ID: mb Lab Sample ID: MB 140-958/5-A
Client ID:
Sample Type: MB
Inject. Date: 14-Mar-2014 14:09:30 ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: mb200mL
Misc. Info.: E031414,TO155,,140-0000522-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 15:38:37 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 15:38:37

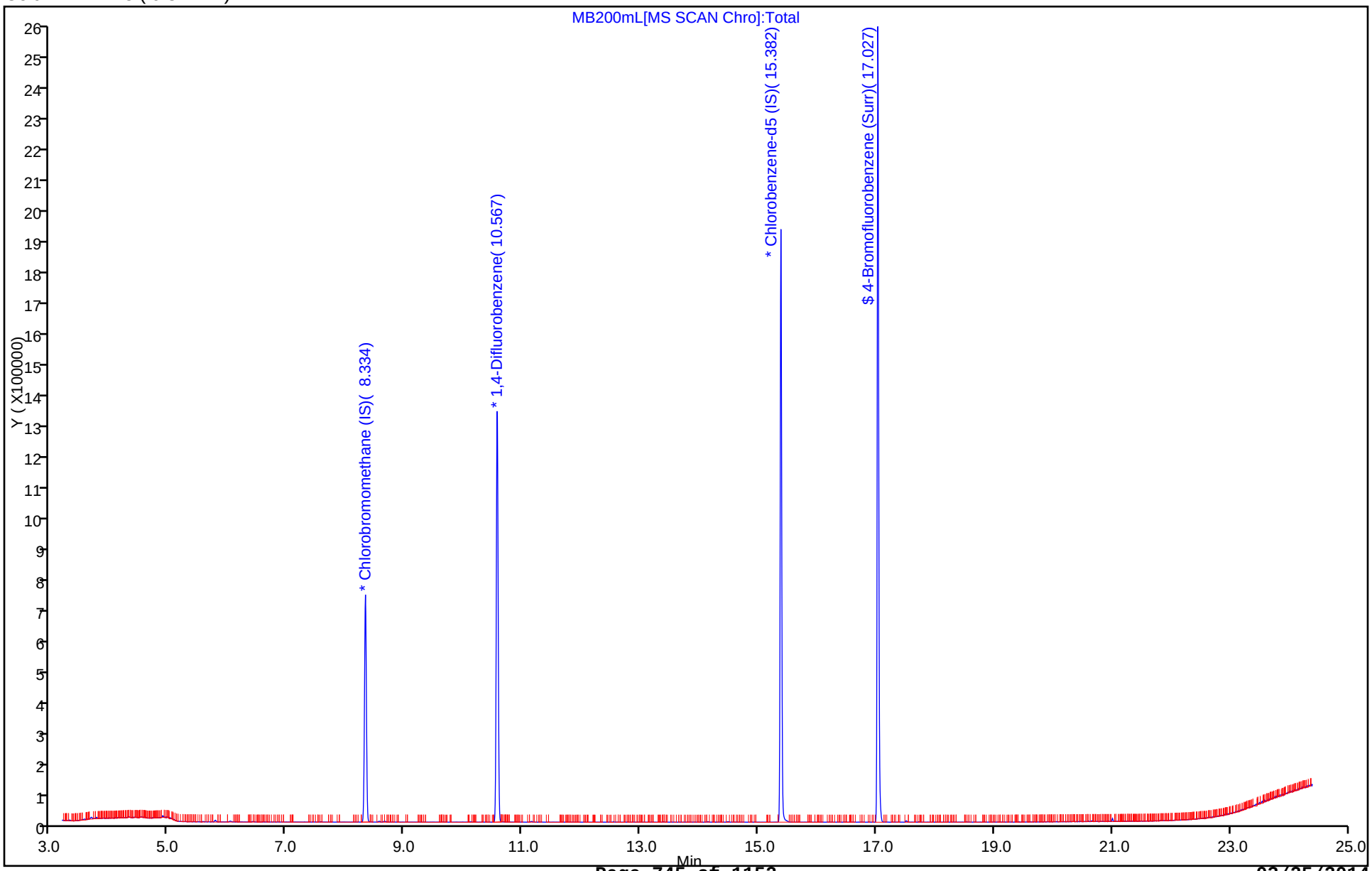
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	211730	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1055190	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	932935	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	854083	4.18	

Report Date: 17-Mar-2014 15:38:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\MB200mL.D				
Injection Date:	14-Mar-2014 14:09:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	mb	Lab Sample ID:	MB 140-958/5-A	Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Mar-2014 17:11:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB200				
Misc. Info.:	E031714,TO155,,140-0000525-005				
Operator ID:	060487	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 11:59:04	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 11:59:04		

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	189632	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	941923	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	834864	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	749693	4.10	

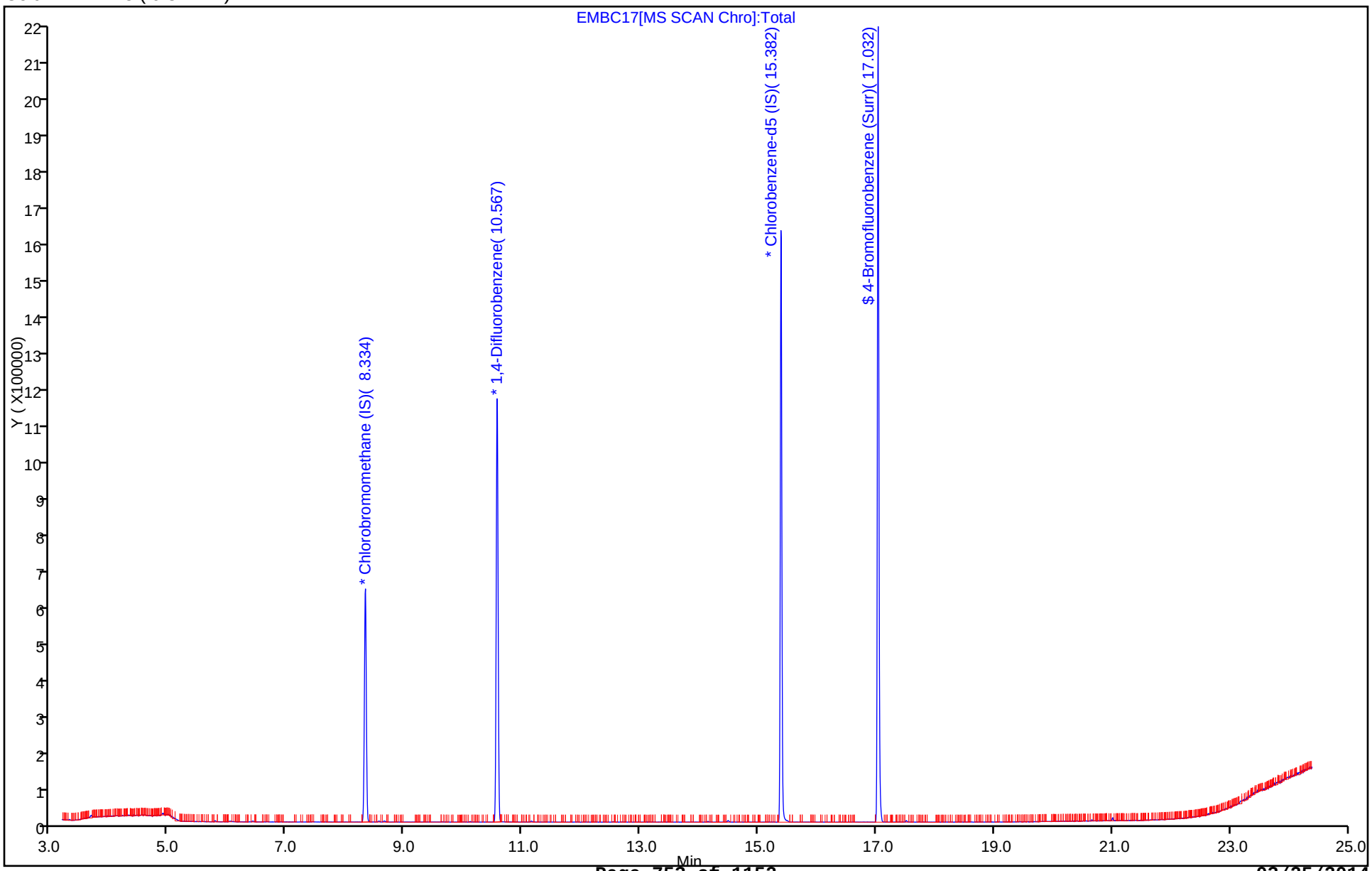
Report Date: 18-Mar-2014 11:59:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D

Injection Date:	17-Mar-2014 17:11:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.25		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.08		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.24		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.96		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.02		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.06		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.51		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.18		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.00		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.33		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.08		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.27		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.96		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.03		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.27		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.06		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.04		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.57		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.79		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.93		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.58		0.40	0.080
591-78-6	2-Hexanone	100.20	1.53		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.27		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.81		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.05		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.53		0.20	0.018
67-64-1	Acetone	58.08	1.92	J	2.0	0.56
71-43-2	Benzene	78.11	2.05		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.12		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.26		0.080	0.018
75-25-2	Bromoform	252.75	1.71		0.080	0.019
74-83-9	Bromomethane	94.94	2.53		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.16		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.45		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.98		0.080	0.020
75-00-3	Chloroethane	64.52	2.48		0.080	0.014
67-66-3	Chloroform	119.38	2.23		0.080	0.015
74-87-3	Chloromethane	50.49	2.24		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.90		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.17		0.080	0.030
110-82-7	Cyclohexane	84.16	1.93		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.02		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.49		0.080	0.027
64-17-5	Ethanol	46.07	10.3		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.05		0.080	0.027
142-82-5	Heptane	100.21	1.92		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.03		0.40	0.031
110-54-3	Hexane	86.17	1.86		0.20	0.013
496-11-7	Indane	118.18	2.09		0.080	0.080
95-13-6	Indene	116.16	2.16		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.97		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.19		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.14		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.41		0.080	0.048
91-20-3	Naphthalene	128.17	1.49		0.20	0.036
95-47-6	o-Xylene	106.17	2.10		0.080	0.024
115-07-1	Propene	42.08	1.89		0.20	0.031
100-42-5	Styrene	104.15	2.12		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.87		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.66		0.40	0.025
110-02-1	Thiophene	84.14	1.99		0.080	0.080
108-88-3	Toluene	92.14	1.94		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.99		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.99		0.080	0.019
79-01-6	Trichloroethene	131.39	1.89		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.64		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.47		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14-LCS.d
Lims ID: LCS Lab Sample ID:
Client ID:
Sample Type: LCS
Inject. Date: 14-Mar-2014 09:55:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031414,TO155,,140-0000522-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 15:36:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 15:36:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	205602	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	1014056	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	970133	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	931480	4.38	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	71470	2.48	
7 Propene	41	3.314	3.314	0.0	92	97644	1.89	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	566107	2.49	
9 Chloromethane	52	3.530	3.530	0.0	97	40617	2.24	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	318943	2.33	
11 Acetaldehyde	44	3.681	3.681	0.0	91	200456	11.6	
12 Vinyl chloride	62	3.691	3.691	0.0	99	173341	2.47	
14 Butane	43	3.772	3.772	0.0	82	220221	2.24	
13 Butadiene	54	3.772	3.772	0.0	71	109849	2.27	
15 Bromomethane	94	4.080	4.080	0.0	98	191471	2.53	
16 Chloroethane	64	4.209	4.209	0.0	95	88135	2.48	
17 Ethanol	31	4.317	4.317	0.0	98	211853	10.3	
18 Vinyl bromide	106	4.495	4.495	0.0	96	179146	2.62	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163362	2.27	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	603178	2.64	
20 Acrolein	56	4.765	4.765	0.0	97	51672	2.38	
22 Acetonitrile	40	4.840	4.840	0.0	96	48111	2.46	
23 Acetone	58	4.883	4.883	0.0	78	59731	1.92	
25 Pentane	72	4.959	4.959	0.0	97	34964	2.59	
24 Isopropyl alcohol	45	4.975	4.975	0.0	74	157651	1.97	
26 Ethyl ether	31	5.126	5.126	0.0	84	117656	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	125864	2.06	
29 2-Methyl-2-propanol	59	5.557	5.557	0.0	94	180186	1.59	
28 Acrylonitrile	53	5.563	5.563	0.0	84	73506	2.04	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	93	315786	2.24	
31 Methylene Chloride	84	5.795	5.795	0.0	84	125776	2.14	
32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	139634	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	459076	2.16	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	149416	1.99	
35 2-Methylpentane	43	6.603	6.603	0.0	86	245067	1.81	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	408873	2.19	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	256538	2.02	
38 Vinyl acetate	43	7.132	7.132	0.0	99	244308	1.95	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	53018	1.58	
40 Hexane	56	7.590	7.590	0.0	81	101884	1.86	
41 cis-1,2-Dichloroethene	96	8.011	8.011	0.0	97	133213	1.90	
42 Ethyl acetate	43	8.205	8.205	0.0	97	195528	1.79	
43 Chloroform	83	8.356	8.356	0.0	97	392003	2.23	
44 Tetrahydrofuran	42	8.755	8.755	0.0	75	87665	1.66	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	448661	2.25	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	282083	2.27	
47 n-Butanol	31	9.963	9.963	0.0	85	22740	1.20	
49 Cyclohexane	69	9.984	9.984	0.0	86	73723	1.93	
48 Benzene	78	9.995	9.995	0.0	97	417909	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	480794	2.45	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	84	91722	1.93	
52 Thiophene	84	10.286	10.286	0.0	95	252099	1.99	
53 Isooctane	57	10.788	10.788	0.0	95	564466	1.79	
54 n-Heptane	71	11.182	11.182	0.0	81	148202	1.92	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	128263	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	89	190552	1.89	
57 Dibromomethane	93	11.397	11.397	0.0	91	204894	2.13	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	433906	2.26	
59 1,4-Dioxane	88	11.570	11.570	0.0	92	42522	1.57	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	142115	1.85	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	270823	1.88	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	183419	1.53	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	250632	2.17	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	261262	1.99	
65 Toluene	91	13.403	13.403	0.0	93	504008	1.94	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	149600	1.96	
67 2-Methylthiophene	97	13.560	13.560	0.0	98	434757	1.93	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	436209	1.92	
69 2-Hexanone	58	13.878	13.878	0.0	94	93766	1.53	
70 n-Octane	85	14.099	14.099	0.0	79	175521	1.89	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	350453	2.02	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	273809	2.00	
73 Tetrachloroethene	129	14.552	14.552	0.0	91	207225	1.87	
74 Chlorobenzene	112	15.436	15.436	0.0	81	410789	1.98	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	80	348844	1.75	
76 Ethylbenzene	91	15.722	15.722	0.0	99	681944	2.05	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	548958	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1156010	4.41	
81 n-Nonane	57	16.304	16.304	0.0	79	262810	1.81	
79 Bromoform	173	16.337	16.337	0.0	94	266355	1.71	
80 Styrene	104	16.353	16.353	0.0	97	384971	2.12	
82 o-Xylene	91	16.412	16.412	0.0	97	595223	2.10	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	346176	2.08	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	127375	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	774948	2.07	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	194979	1.99	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	182596	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	732948	2.05	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	330056	2.03	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	81	282618	2.11	
91 n-Decane	57	18.073	18.073	0.0	96	322565	2.10	
92 tert-Butylbenzene	119	18.213	18.213	0.0	85	681039	2.08	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	92	650269	2.18	
95 sec-Butylbenzene	105	18.488	18.488	0.0	96	856657	2.13	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	97	398928	2.06	
96 Benzyl chloride	91	18.585	18.585	0.0	96	518219	2.12	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	88	388235	2.04	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	734201	2.16	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	532570	2.11	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	490142	2.10	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	543956	2.09	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	80	383389	2.08	
103 Indene	116	19.087	19.087	0.0	86	532788	2.16	
104 n-Butylbenzene	91	19.092	19.092	0.0	95	693152	2.31	
106 Undecane	57	19.410	19.410	0.0	87	294886	2.17	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	632305	2.17	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	638558	2.21	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	399852	2.12	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	479074	1.99	
110 Dodecane	57	20.462	20.462	0.0	87	133912	1.31	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	185817	1.51	
112 Naphthalene	128	20.796	20.796	0.0	98	321980	1.49	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	195330	1.25	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	326307	2.03	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	116322	1.27	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	97	58507	5.75	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	97	50104	5.65	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1242991	1.79	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1286522	2.13	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1468700	2.03	
S 124 Xylenes, Total	100				0		6.51	

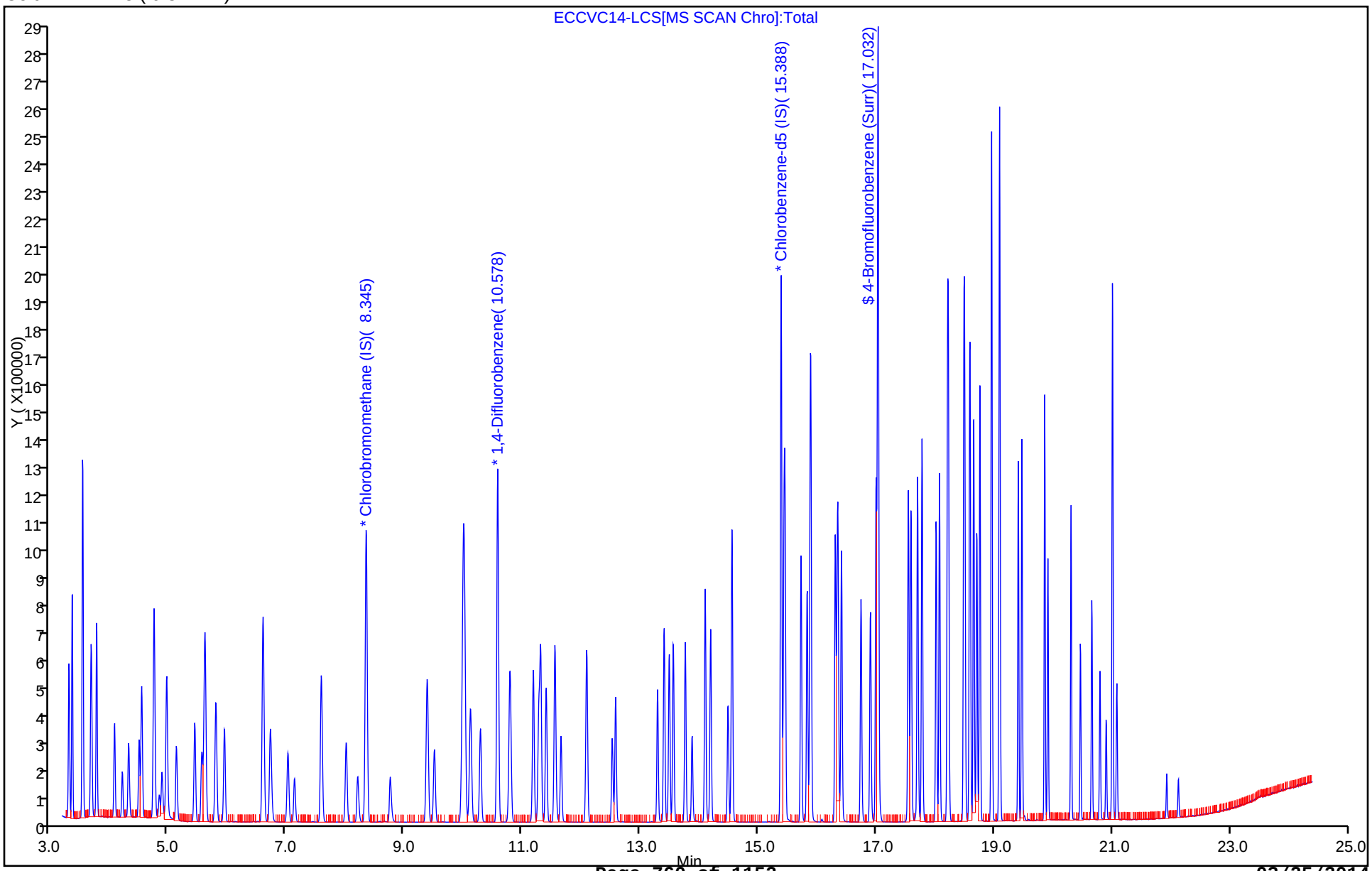
Report Date: 17-Mar-2014 15:36:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14-LCS.d

Injection Date:	14-Mar-2014 09:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS	Lab Sample ID:		Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.28		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.22		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.11		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.03		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.07		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.21		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.40		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.19		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.65		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.33		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.31		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.97		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.24		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.43		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.33		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.31		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.83		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.85		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.95		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.63		0.40	0.080
591-78-6	2-Hexanone	100.20	1.77		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.40		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.79		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.81		0.20	0.018
67-64-1	Acetone	58.08	1.98	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.54		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.31		0.080	0.018
75-25-2	Bromoform	252.75	2.57		0.080	0.019
74-83-9	Bromomethane	94.94	2.64		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.07		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.43		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.16		0.080	0.020
75-00-3	Chloroethane	64.52	2.65		0.080	0.014
67-66-3	Chloroform	119.38	2.25		0.080	0.015
74-87-3	Chloromethane	50.49	2.20		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.99		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.19		0.080	0.030
110-82-7	Cyclohexane	84.16	1.99		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.40		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.53		0.080	0.027
64-17-5	Ethanol	46.07	10.8		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.25		0.080	0.027
142-82-5	Heptane	100.21	2.03		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.42		0.40	0.031
110-54-3	Hexane	86.17	1.87		0.20	0.013
496-11-7	Indane	118.18	2.34		0.080	0.080
95-13-6	Indene	116.16	2.44		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	2.28		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.23		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.09		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.73		0.080	0.048
91-20-3	Naphthalene	128.17	2.51		0.20	0.036
95-47-6	o-Xylene	106.17	2.27		0.080	0.024
115-07-1	Propene	42.08	1.83		0.20	0.031
100-42-5	Styrene	104.15	2.32		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.11		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.65		0.40	0.025
110-02-1	Thiophene	84.14	2.04		0.080	0.080
108-88-3	Toluene	92.14	2.12		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.05		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.23		0.080	0.019
79-01-6	Trichloroethene	131.39	1.99		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.69		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.52		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

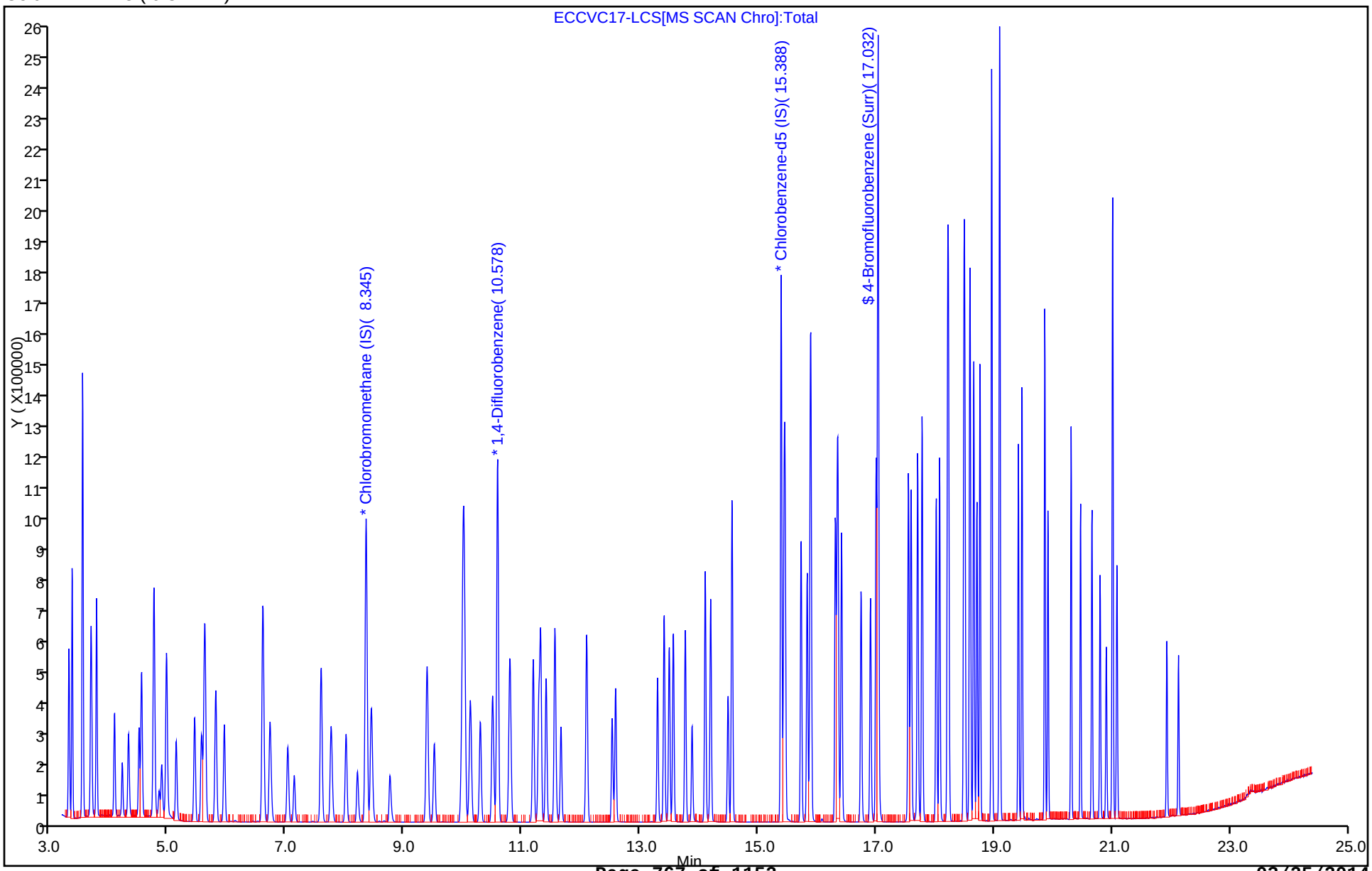
Report Date: 18-Mar-2014 11:58:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Instrument ID: ME Start Date: 03/14/2014 09:24

Analysis Batch Number: 958 End Date: 03/15/2014 08:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-958/1		03/14/2014 09:24	1	EBFBC14.D	RTX-5 0.32(mm)
CCVIS 140-958/2		03/14/2014 09:55	1	ECCVC14.D	RTX-5 0.32(mm)
LCS 140-958/1002		03/14/2014 09:55	1	ECCVC14-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/14/2014 13:25	1		RTX-5 0.32(mm)
MB 140-958/5		03/14/2014 14:09	1	MB200mL.D	RTX-5 0.32(mm)
140-1041-1	PCV-IA1-B1	03/14/2014 14:54	1	EC14P101.D	RTX-5 0.32(mm)
140-1041-2	PCV-IA2-B1	03/14/2014 15:40	1	EC14P102.D	RTX-5 0.32(mm)
140-1041-3	PCV-IA1-B2	03/14/2014 16:24	1	EC14P103.D	RTX-5 0.32(mm)
140-1041-4	PCV-IA2-B2	03/14/2014 17:10	1	EC14P104.D	RTX-5 0.32(mm)
140-1041-5	PCV-IA1-B13	03/14/2014 17:56	1	EC14P105.D	RTX-5 0.32(mm)
140-1041-6	PCV-IA2-B13	03/14/2014 18:42	1	EC14P106.D	RTX-5 0.32(mm)
140-1041-6 DL	PCV-IA2-B13 DL	03/14/2014 20:43	1	EC14P106RR.D	RTX-5 0.32(mm)
140-1041-7	PCV-IA3-B13	03/14/2014 21:28	1	EC14P107.D	RTX-5 0.32(mm)
140-1041-8	PCV-AMB-3	03/14/2014 22:13	1	EC14P108.D	RTX-5 0.32(mm)
140-1041-9	PCV-IA1-B14	03/14/2014 22:59	1	EC14P109.D	RTX-5 0.32(mm)
140-1041-10	PCV-IA1FD-B14	03/14/2014 23:45	1	EC14P110.D	RTX-5 0.32(mm)
140-1041-11	PCV-IA2-B14	03/15/2014 00:31	1	EC14P111.D	RTX-5 0.32(mm)
140-1041-12	PCV-IA1-B4	03/15/2014 01:16	1	EC14P112.D	RTX-5 0.32(mm)
140-1041-13	PCV-IA1-B3	03/15/2014 02:01	1	EC14P113.D	RTX-5 0.32(mm)
140-1041-14	PCV-IA2-B3	03/15/2014 02:46	1	EC14P114.D	RTX-5 0.32(mm)
140-1041-15	PCV-IA3-B3	03/15/2014 03:32	1	EC14P115.D	RTX-5 0.32(mm)
ZZZZZ		03/15/2014 04:18	1		RTX-5 0.32(mm)
140-1041-17	PCV-AMB4	03/15/2014 05:03	1	EC14P201.D	RTX-5 0.32(mm)
ZZZZZ		03/15/2014 05:49	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 06:34	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 07:19	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 08:05	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Instrument ID: ME Start Date: 03/17/2014 13:39

Analysis Batch Number: 967 End Date: 03/18/2014 09:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-967/1		03/17/2014 13:39	1	EBFBC17.D	RTX-5 0.32(mm)
CCVIS 140-967/2		03/17/2014 14:10	1	ECCVC17.D	RTX-5 0.32(mm)
LCS 140-967/1002		03/17/2014 14:10	1	ECCVC17-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 16:25	1		RTX-5 0.32(mm)
MB 140-967/5		03/17/2014 17:11	1	EMBC17.D	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 17:56	8836.73		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 18:41	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 19:27	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:13	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:58	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 21:44	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 22:29	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 23:15	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:00	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:45	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 01:30	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 02:15	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:01	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:47	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 04:33	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 05:18	1		RTX-5 0.32(mm)
140-1041-7 DL	PCV-IA3-B13 DL	03/18/2014 06:03	1	EC17POS201.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:49	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 07:35	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 08:20	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 09:06	1		RTX-5 0.32(mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 Lab Sample ID: 140-887-1

Matrix: Air Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 Lab Sample ID: 140-887-1

Matrix: Air Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 18-Feb-2014 09:08:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D
Lims ID: 140-887-A-1 Lab Sample ID: 140-887-1
Client ID: 09990
Sample Type: Client
Inject. Date: 17-Feb-2014 17:42:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09990
Misc. Info.: J021714,TO15,,140-0000443-006
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:08:39 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:08:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234570	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1112648	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.227	16.229	-0.002	96	917035	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	79	748121	4.09	
7 Propene	41	3.972	3.974	-0.002	92	4831	0.0385	
13 Butane	43	4.516	4.523	-0.007	77	7175	0.0537	
19 2-Methylbutane	43	5.419	5.421	-0.002	58	2212	0.0201	
28 2-Methyl-2-propanol	59	6.517	6.492	0.025	42	3223	0.0229	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	86	20014	0.1059	

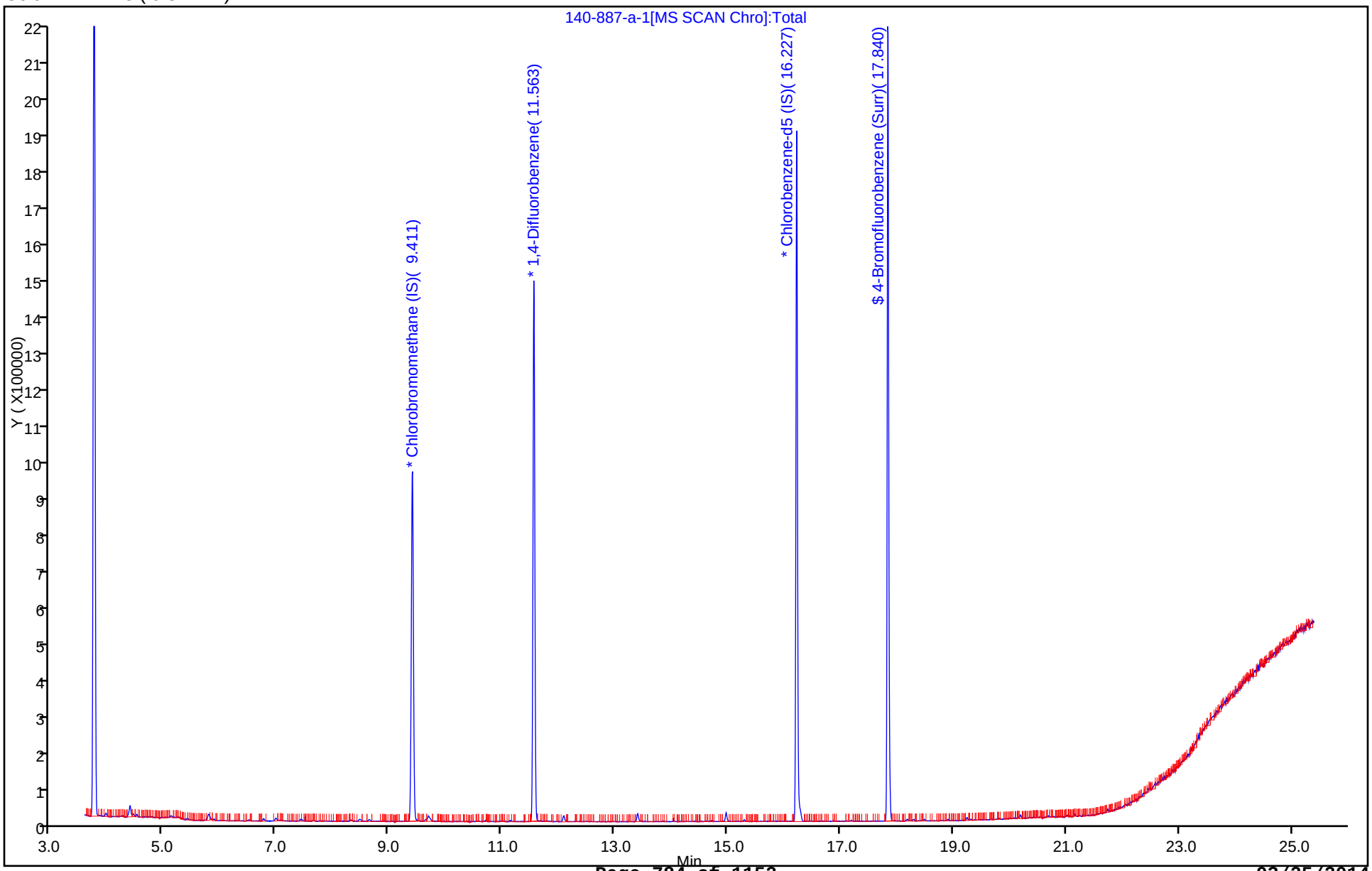
Report Date: 18-Feb-2014 09:08:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D

Injection Date:	17-Feb-2014 17:42:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-1	Lab Sample ID:	140-887-1	Worklist Smp#:	6
Client ID:	09990				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 Lab Sample ID: 140-887-2

Matrix: Air Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 Lab Sample ID: 140-887-2

Matrix: Air Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D
Lims ID: 140-887-A-2 Lab Sample ID: 140-887-2
Client ID: 09609
Sample Type: Client
Inject. Date: 17-Feb-2014 18:37:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09609
Misc. Info.: J021714,TO15,,140-0000443-007
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:09:07 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:09:06

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228881	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1124225	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	920012	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	724033	3.94	
	28 2-Methyl-2-propanol	59	6.515	6.492	0.023	31	3061	0.0223	
	62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	68	7138	0.0374	

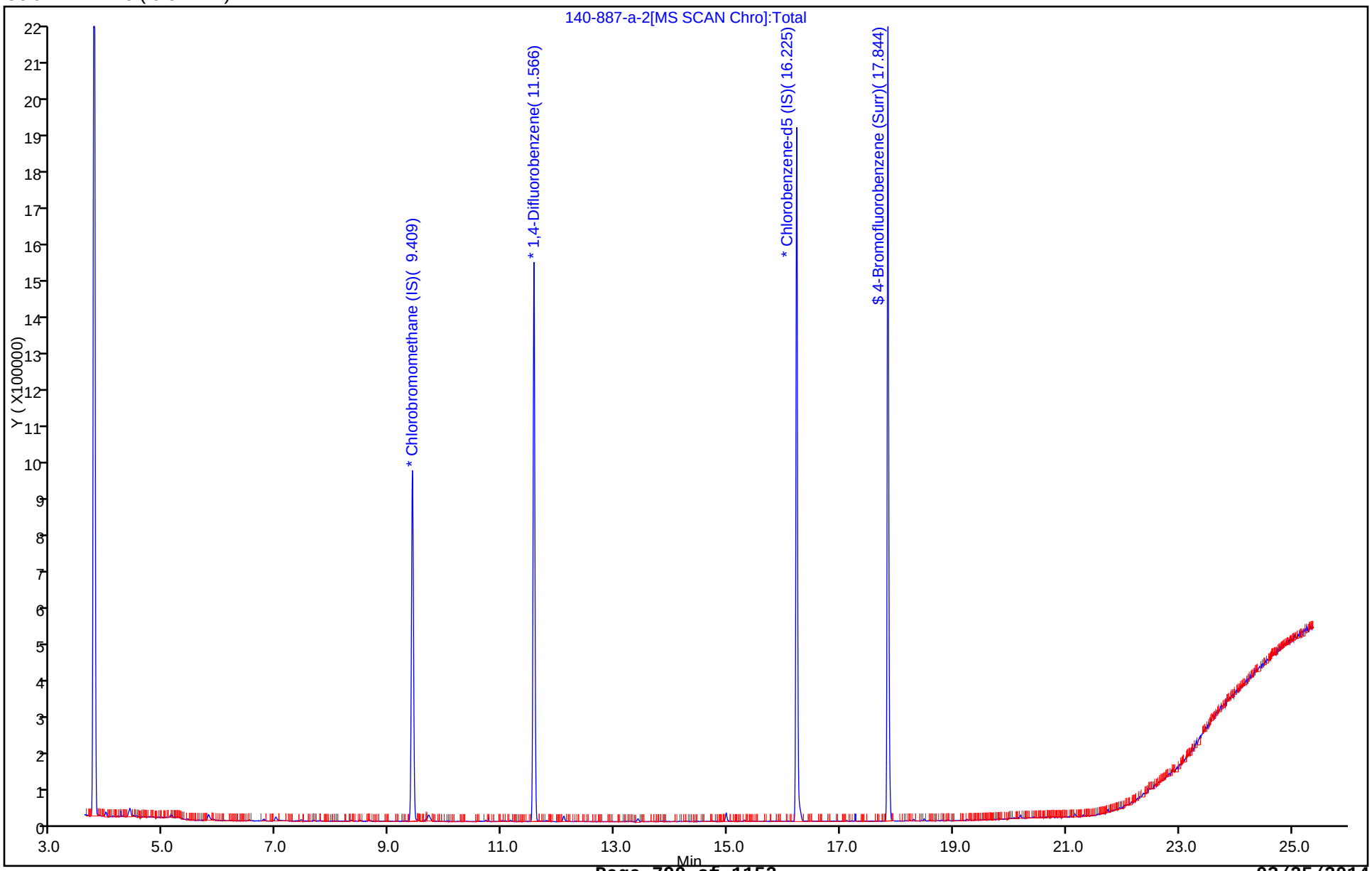
Report Date: 18-Feb-2014 09:09:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D

Injection Date:	17-Feb-2014 18:37:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-2	Lab Sample ID:	140-887-2	Worklist Smp#:	7
Client ID:	09609				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-887-5

Matrix: Air | Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-887-5

Matrix: Air | Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D
Lims ID: 140-887-A-5 Lab Sample ID: 140-887-5
Client ID: 10426
Sample Type: Client
Inject. Date: 17-Feb-2014 21:20:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10426
Misc. Info.: J021714,TO15,,140-0000443-010
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:10:54 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228039	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1142730	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	979591	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	85	796262	4.07	
7 Propene	41	3.976	3.974	0.002	87	4305	0.0353	
28 2-Methyl-2-propanol	59	6.515	6.492	0.023	46	2506	0.0183	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	69	5993	0.0309	

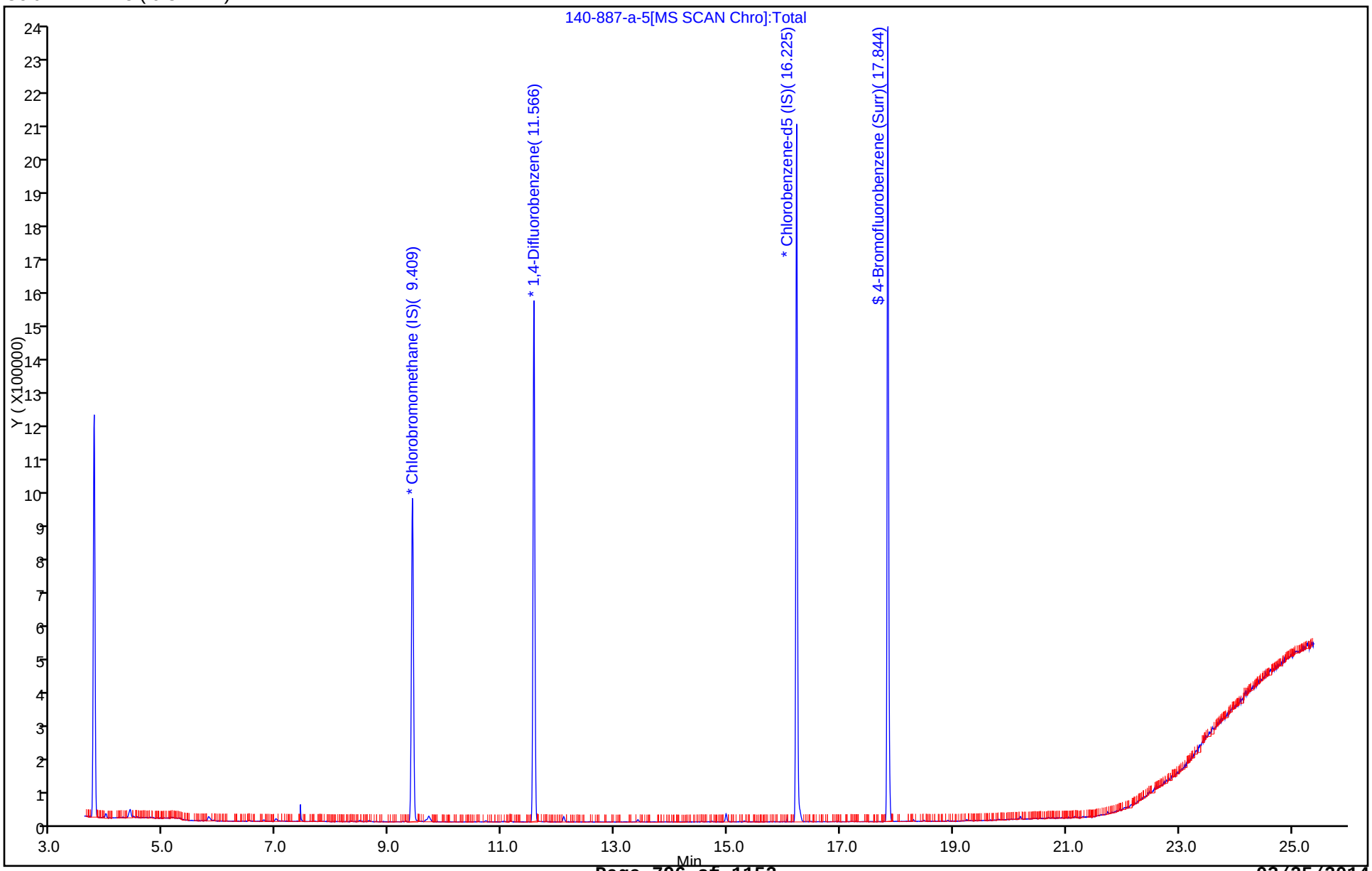
Report Date: 18-Feb-2014 09:10:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D

Injection Date:	17-Feb-2014 21:20:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-5	Lab Sample ID:	140-887-5	Worklist Smp#:	10
Client ID:	10426				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D
Lims ID: 140-887-A-6 Lab Sample ID: 140-887-6
Client ID: 10578
Sample Type: Client
Inject. Date: 17-Feb-2014 22:14:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10578
Misc. Info.: J021714,TO15,,140-0000443-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:22 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234526	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1084974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	888329	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	719762	4.06	
7 Propene	41	3.976	3.974	0.002	69	4102	0.0327	
28 2-Methyl-2-propanol	59	6.531	6.492	0.039	6	2301	0.0163	
44 Tetrahydrofuran	42	9.861	9.833	0.028	80	5635	0.0688	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	87	30074	0.1632	

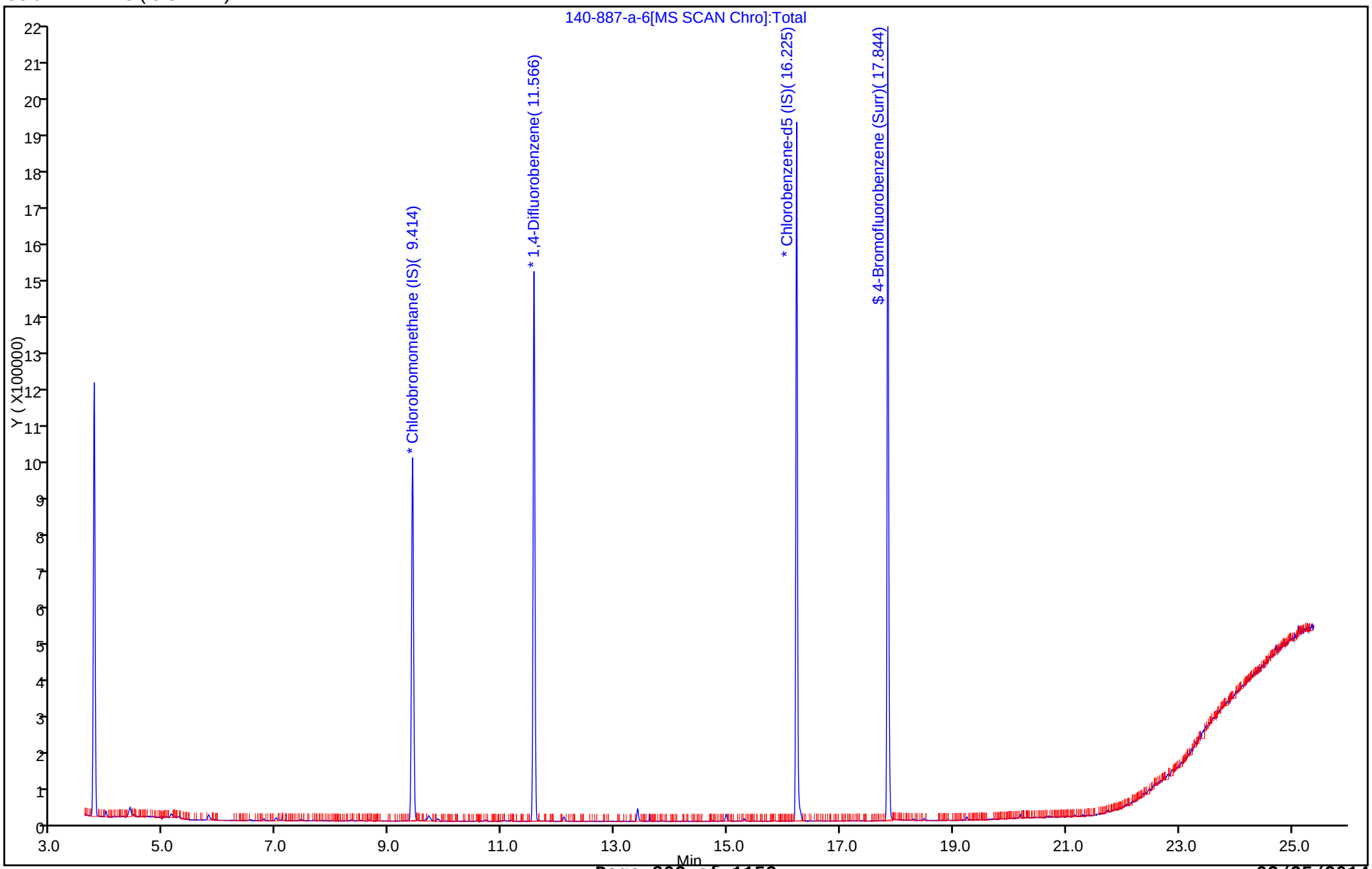
Report Date: 18-Feb-2014 09:11:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D

Injection Date:	17-Feb-2014 22:14:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-6	Lab Sample ID:	140-887-6	Worklist Smp#:	11
Client ID:	10578				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 | Lab Sample ID: 140-887-8

Matrix: Air | Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 | Lab Sample ID: 140-887-8

Matrix: Air | Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D
Lims ID: 140-887-A-8 Lab Sample ID: 140-887-8
Client ID: 10718
Sample Type: Client
Inject. Date: 17-Feb-2014 23:08:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10718
Misc. Info.: J021714,TO15,,140-0000443-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:53 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234757	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1129568	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	931520	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	731564	3.94	
7 Propene	41	3.981	3.974	0.007	90	4432	0.0353	
13 Butane	43	4.524	4.523	0.001	77	10078	0.0754	
19 2-Methylbutane	43	5.417	5.421	-0.004	63	2815	0.0255	
28 2-Methyl-2-propanol	59	6.514	6.492	0.022	50	3058	0.0217	
33 Carbon disulfide	76	6.956	6.960	-0.004	91	16157	0.0635	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	78	12128	0.0632	

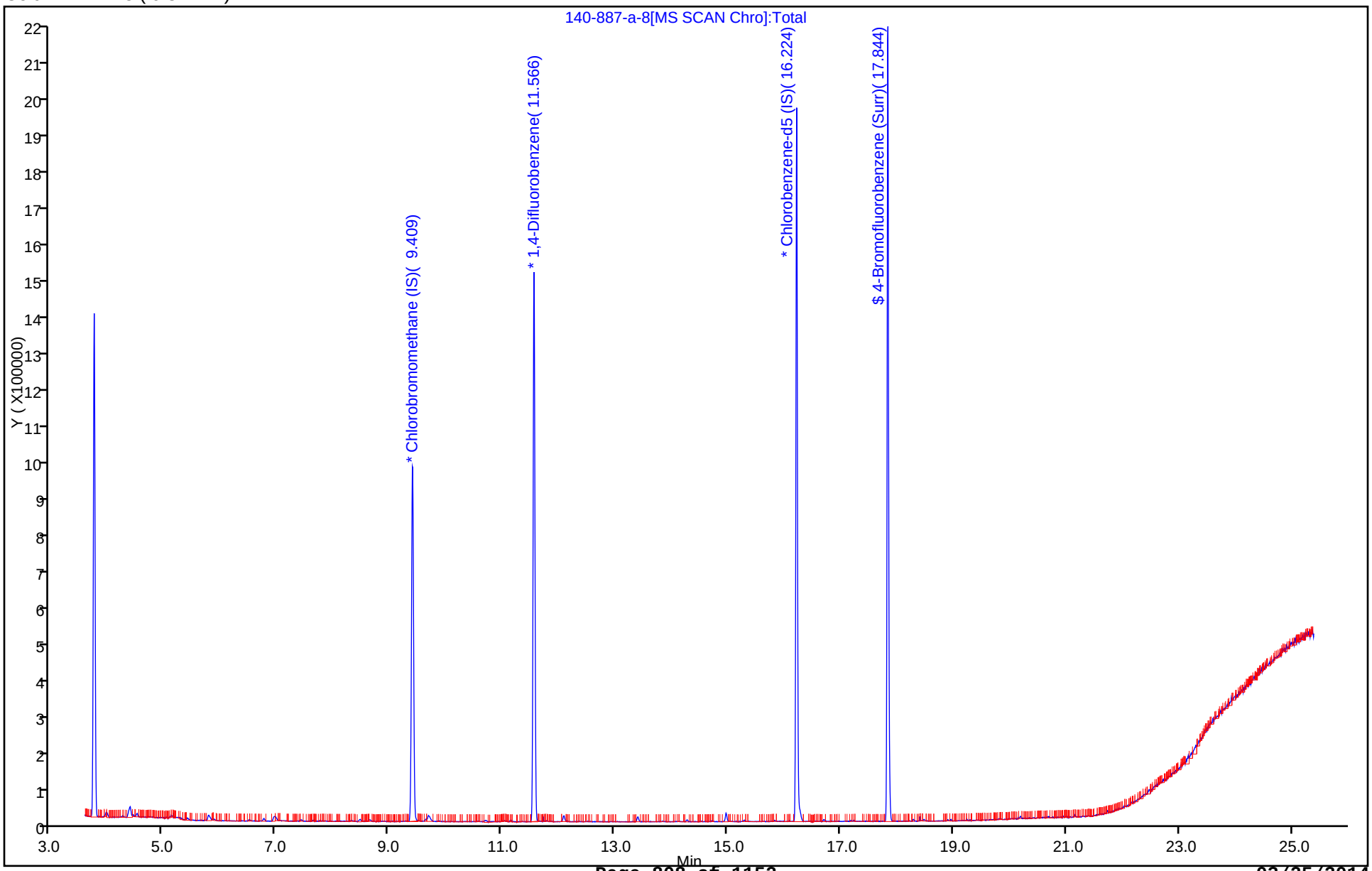
Report Date: 18-Feb-2014 09:11:54 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D

Injection Date:	17-Feb-2014 23:08:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-8	Lab Sample ID:	140-887-8	Worklist Smp#:	12
Client ID:	10718				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D				
Lims ID:	140-887-A-9	Lab Sample ID:	140-887-9		
Client ID:	10367				
Sample Type:	Client				
Inject. Date:	18-Feb-2014 00:05:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10367				
Misc. Info.:	J021714,TO15,,140-0000443-013				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Feb-2014 09:12:18	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK047				
First Level Reviewer: tajh		Date:	18-Feb-2014 09:12:18		

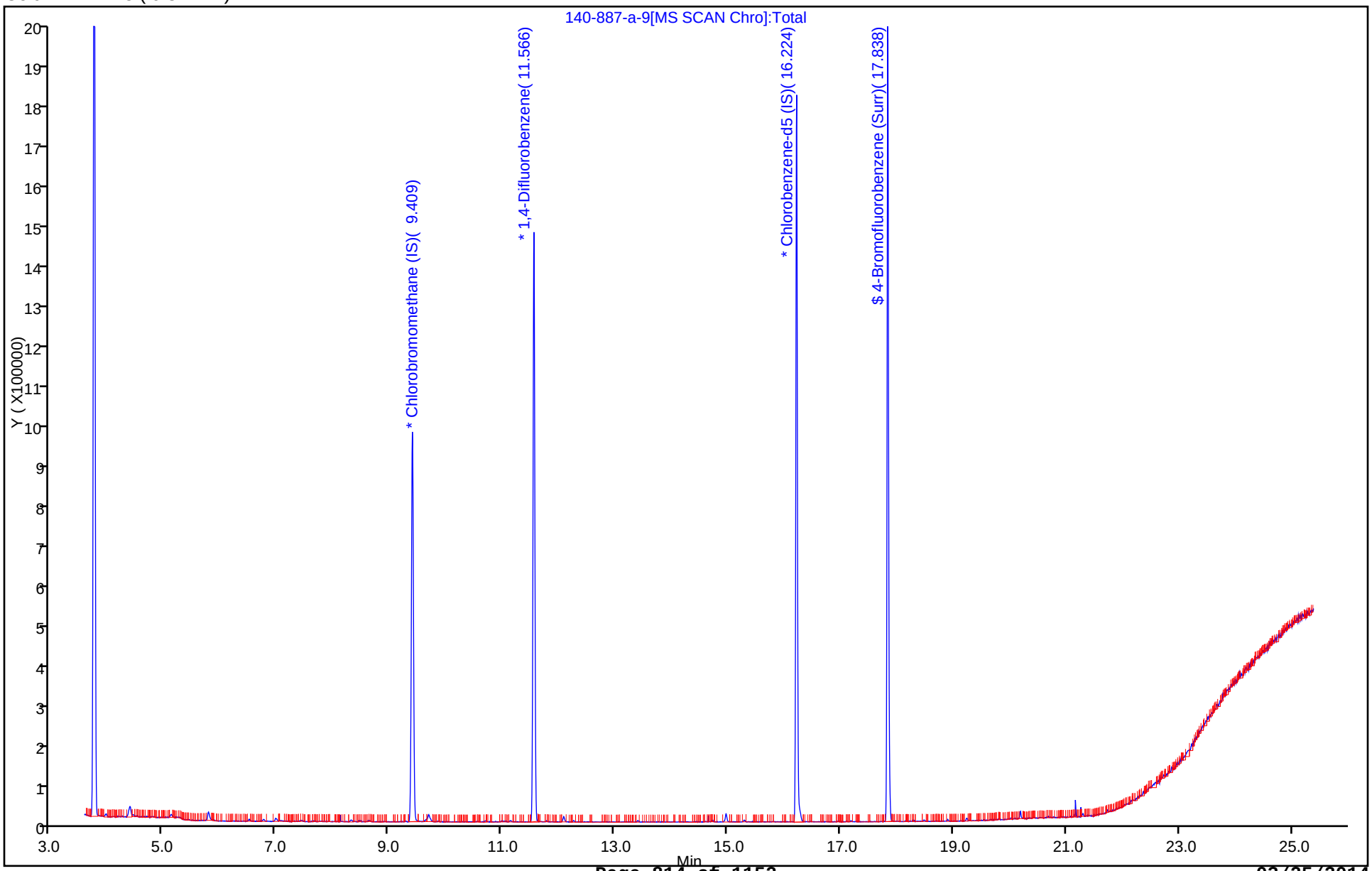
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	232063	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1078719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	855061	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.843	-0.005	78	667028	3.91	
28 2-Methyl-2-propanol	59	6.509	6.492	0.017	48	4069	0.0292	

Report Date: 18-Feb-2014 09:12:19 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D				
Injection Date:	18-Feb-2014 00:05:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-9	Lab Sample ID:	140-887-9	Worklist Smp#:	13
Client ID:	10367				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 Lab Sample ID: 140-887-11

Matrix: Air Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D
Lims ID: 140-887-A-11 Lab Sample ID: 140-887-11
Client ID: 09513
Sample Type: Client
Inject. Date: 18-Feb-2014 01:54:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09513
Misc. Info.: J021714,TO15,,140-0000443-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:13:45 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:13:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.418	-0.012	89	232043	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.570	-0.006	98	1067906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	870406	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.842	17.843	-0.001	79	716999	4.13	
28 2-Methyl-2-propanol	59	6.518	6.492	0.026	28	2611	0.0187	
44 Tetrahydrofuran	42	9.697	9.833	-0.136	16	6588	0.0812	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	70	8614	0.0475	

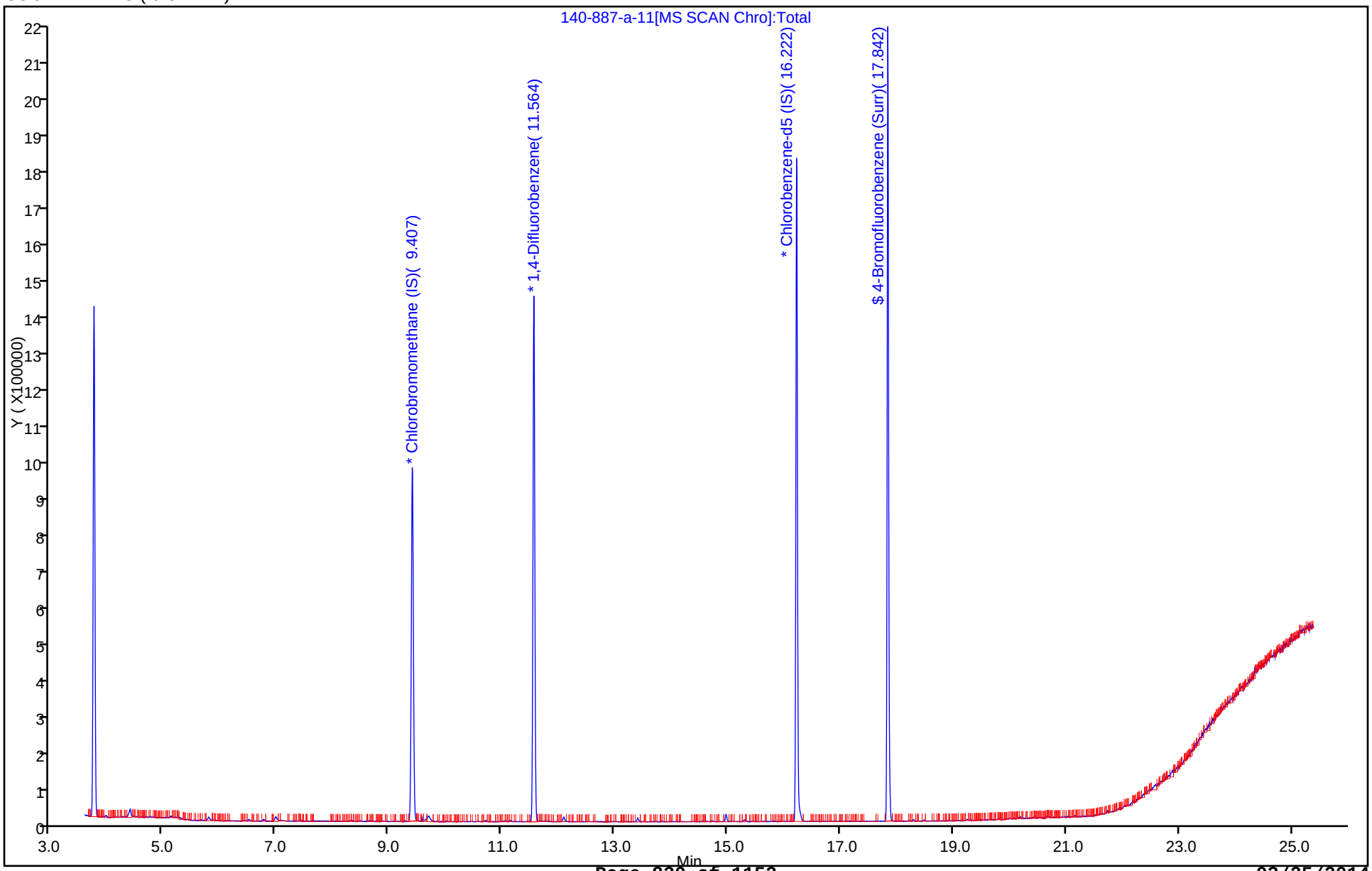
Report Date: 18-Feb-2014 09:13:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D

Injection Date:	18-Feb-2014 01:54:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-11	Lab Sample ID:	140-887-11	Worklist Smp#:	15
Client ID:	09513				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 | Lab Sample ID: 140-887-13

Matrix: Air | Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 | Lab Sample ID: 140-887-13

Matrix: Air | Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D
Lims ID: 140-887-A-13 Lab Sample ID: 140-887-13
Client ID: 09820
Sample Type: Client
Inject. Date: 18-Feb-2014 03:44:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09820
Misc. Info.: J021714,TO15,,140-0000443-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.418	-0.006	90	230349	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1076802	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	865396	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.843	-0.002	79	684889	3.97	
7 Propene	41	3.973	3.974	-0.001	45	4500	0.0365	
28 2-Methyl-2-propanol	59	6.512	6.492	0.020	47	3840	0.0277	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	84	16476	0.0901	

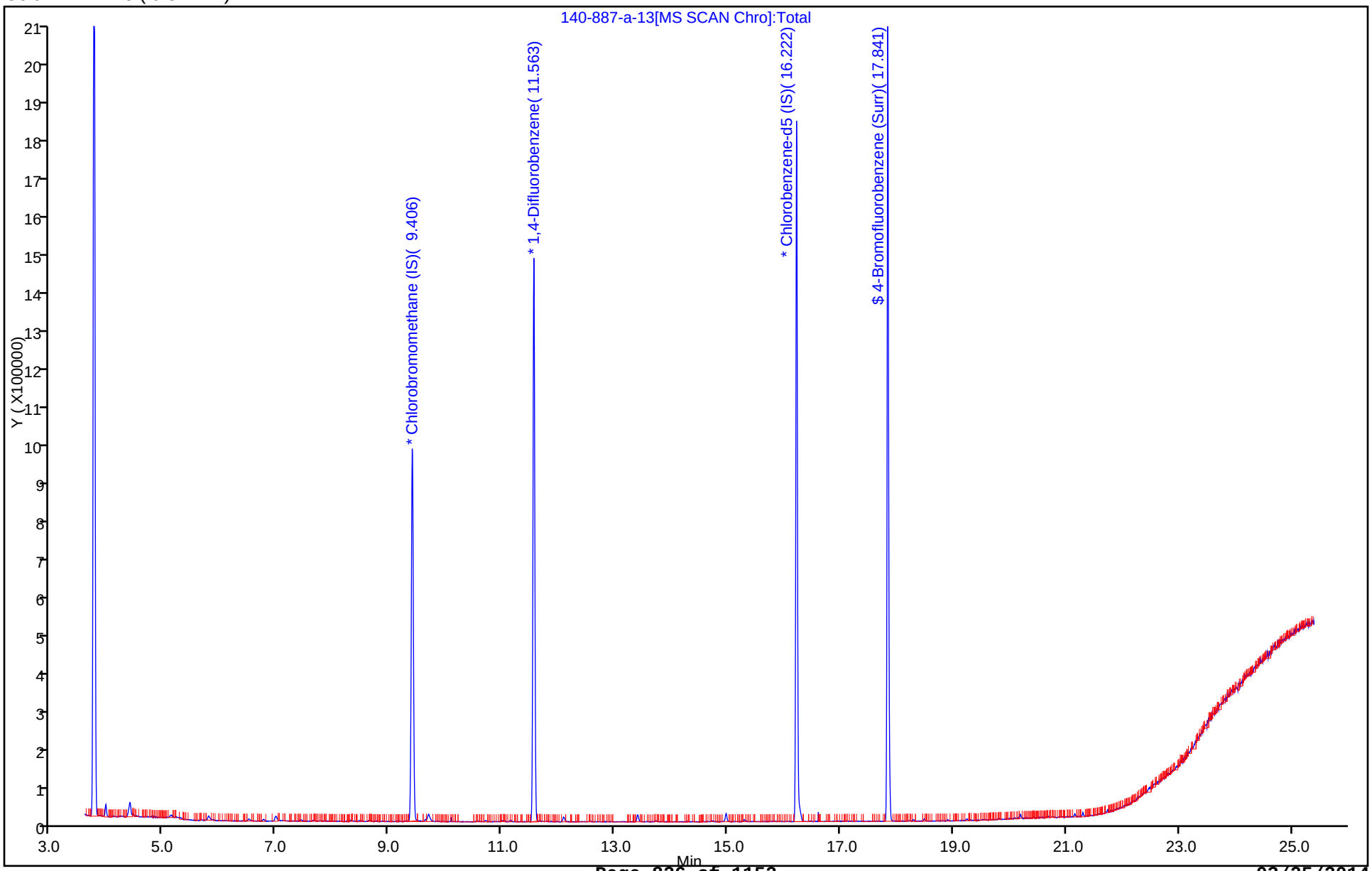
Report Date: 18-Feb-2014 09:15:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D

Injection Date:	18-Feb-2014 03:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-13	Lab Sample ID:	140-887-13	Worklist Smp#:	17
Client ID:	09820				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 Lab Sample ID: 140-887-14

Matrix: Air Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D
Lims ID: 140-887-A-14 Lab Sample ID: 140-887-14
Client ID: 10248
Sample Type: Client
Inject. Date: 18-Feb-2014 04:38:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10248
Misc. Info.: J021714,TO15,,140-0000443-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:28

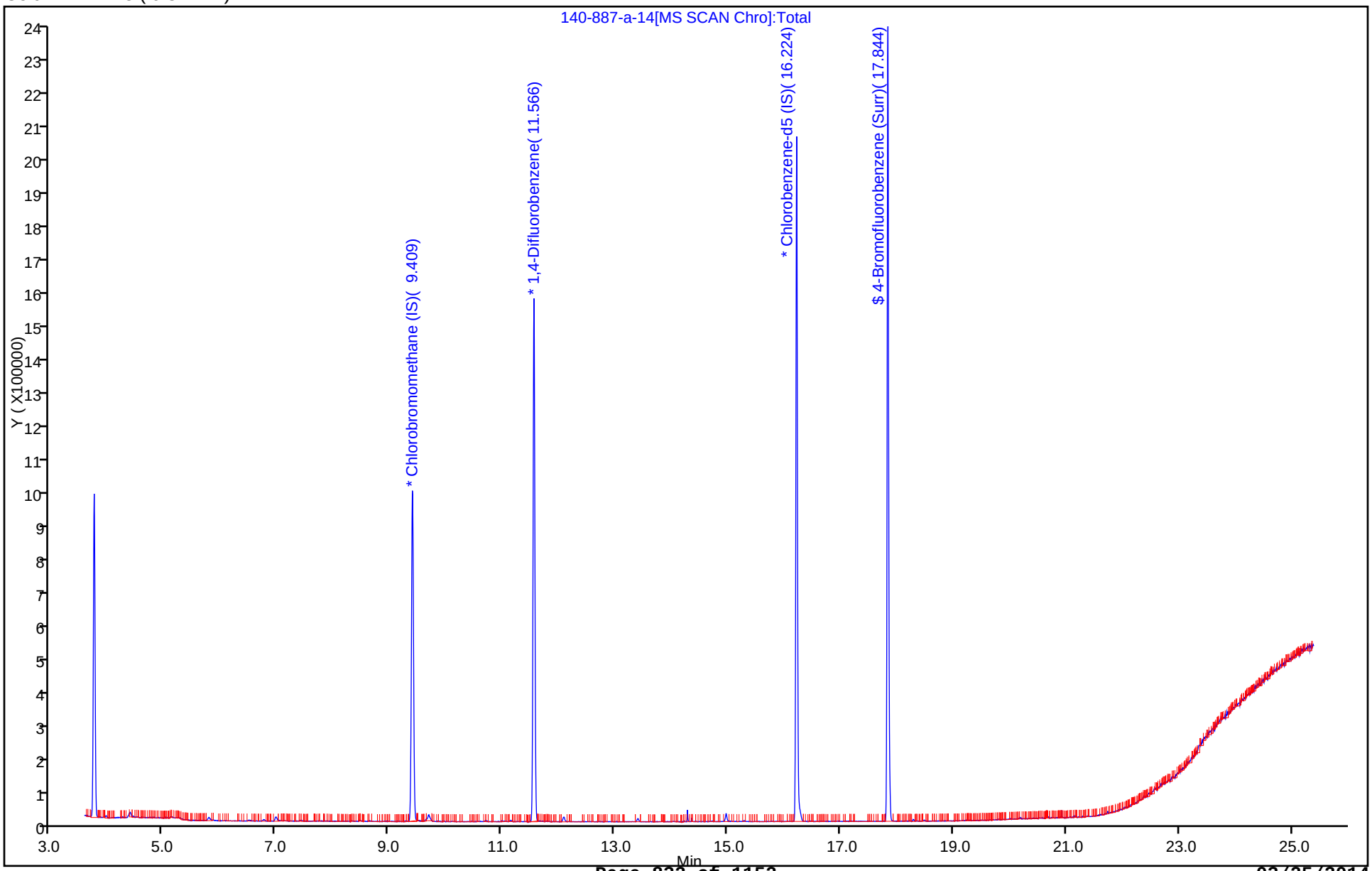
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	235467	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1138994	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	961934	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	787823	4.10	
	28 2-Methyl-2-propanol	59	6.520	6.492	0.028	47	3082	0.0218	
	62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	70	8327	0.0431	

Report Date: 18-Feb-2014 09:15:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D				
Injection Date:	18-Feb-2014 04:38:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-14	Lab Sample ID:	140-887-14	Worklist Smp#:	18
Client ID:	10248				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 Lab Sample ID: 140-887-16

Matrix: Air Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D
Lims ID: 140-887-A-16 Lab Sample ID: 140-887-16
Client ID: 09526
Sample Type: Client
Inject. Date: 18-Feb-2014 06:28:30 ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09526
Misc. Info.: J021714,TO15,,140-0000443-020
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:16:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:16:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.410	9.418	-0.008	90	244816	4.00	
* 2 1,4-Difluorobenzene	114	11.567	11.570	-0.003	98	1187906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	978359	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	79	774920	3.97	
7 Propene	41	3.976	3.974	0.002	89	4495	0.0343	
28 2-Methyl-2-propanol	59	6.505	6.492	0.013	65	6413	0.0436	
47 n-Butanol	31	10.986	10.968	0.018	72	2420	0.0562	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.399	0.002	90	28428	0.1409	
93 1,2,4-Trimethylbenzene	105	18.964	18.962	0.002	32	5670	0.0267	

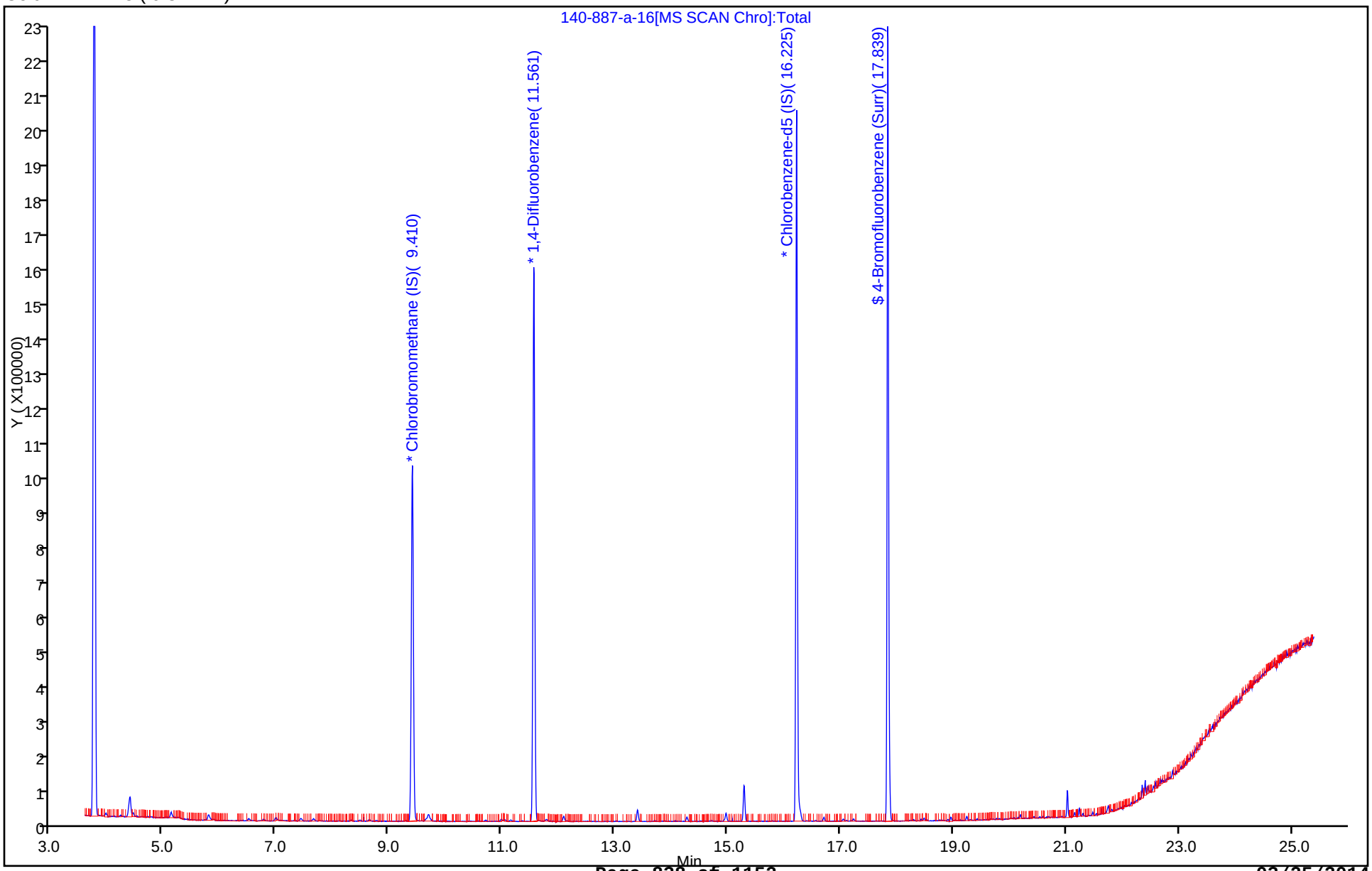
Report Date: 18-Feb-2014 09:16:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D

Injection Date:	18-Feb-2014 06:28:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-16	Lab Sample ID:	140-887-16	Worklist Smp#:	20
Client ID:	09526				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D				
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1		
Client ID:	09994				
Sample Type:	Client				
Inject. Date:	18-Feb-2014 22:23:30	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09994				
Misc. Info.:	E021814,TO155,,140-0000446-014				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 09:17:15	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 09:17:15		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.350	0.0	82	249824	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1244065	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1091614	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	934270	3.91	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	5258	0.0357	

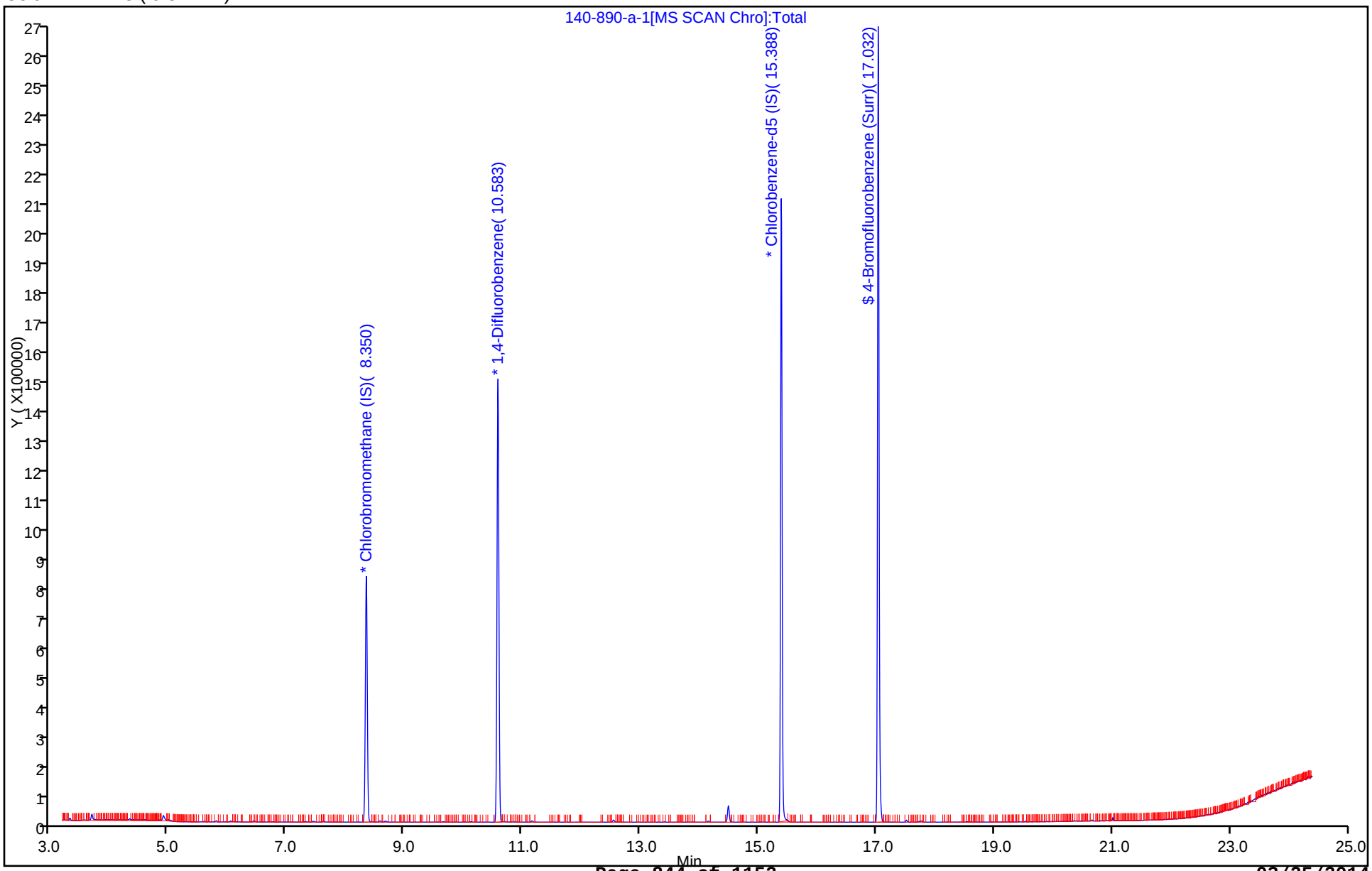
Report Date: 19-Feb-2014 09:17:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D

Injection Date:	18-Feb-2014 22:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1	Worklist Smp#:	14
Client ID:	09994				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 Lab Sample ID: 140-890-5

Matrix: Air Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D
Lims ID: 140-890-A-5 Lab Sample ID: 140-890-5
Client ID: 10829
Sample Type: Client
Inject. Date: 19-Feb-2014 01:25:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10829
Misc. Info.: E021814,TO155,,140-0000446-018
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 09:19:47 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:19:47

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	233449	4.00	
*	2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1163887	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1024194	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	887509	3.96	
	62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	69	3548	0.0257	

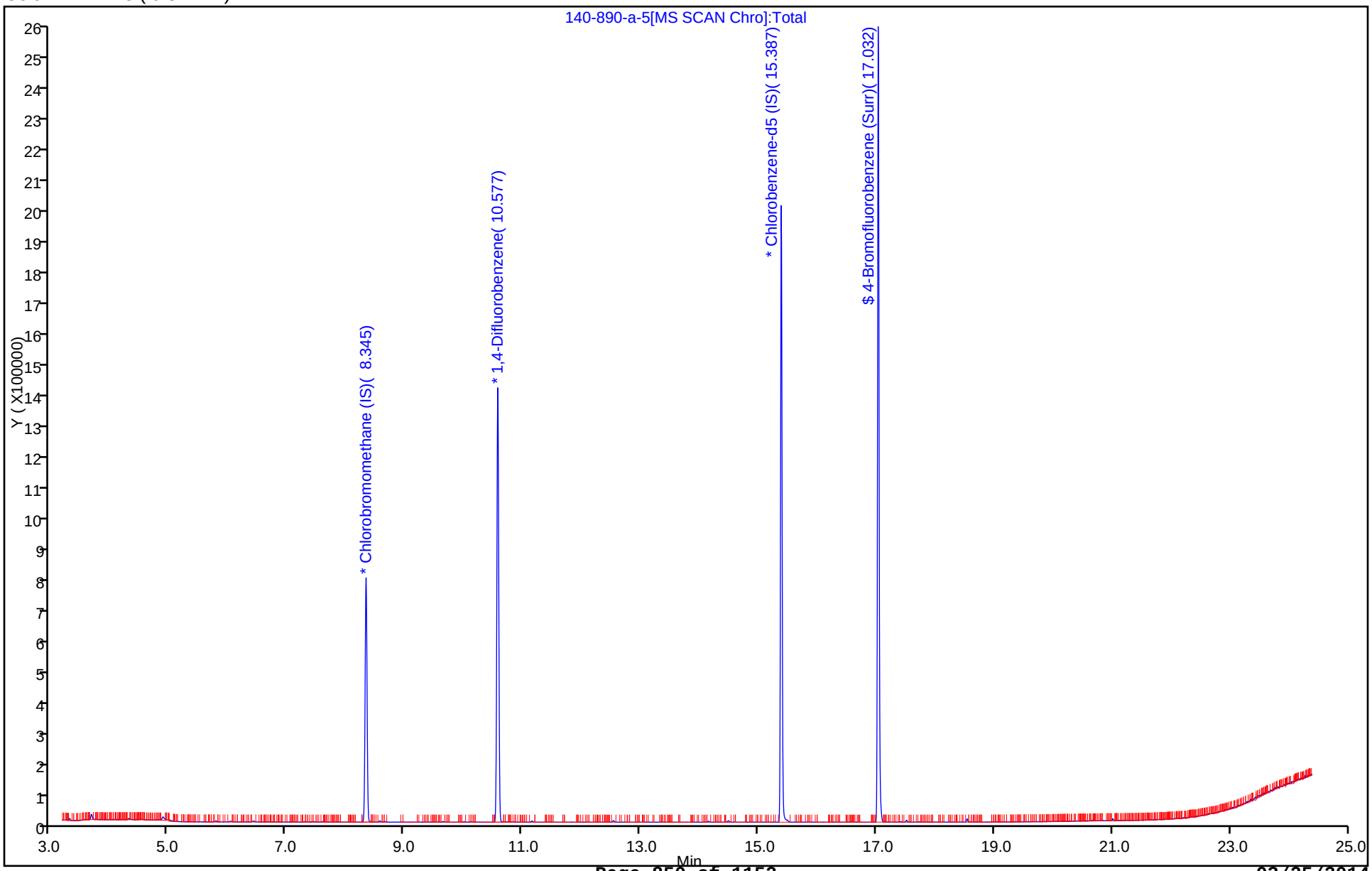
Report Date: 19-Feb-2014 09:19:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D

Injection Date:	19-Feb-2014 01:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-5	Lab Sample ID:	140-890-5	Worklist Smp#:	18
Client ID:	10829				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 Lab Sample ID: 140-890-6

Matrix: Air Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D
Lims ID: 140-890-A-6 Lab Sample ID: 140-890-6
Client ID: 09516
Sample Type: Client
Inject. Date: 17-Feb-2014 16:45:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09516
Misc. Info.: J021714,TO15,,140-0000443-005
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 13:48:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: barlozhetskayaa Date: 19-Feb-2014 13:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.008	90	239088	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.570	-0.008	98	1194187	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	1002280	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	791782	3.96	
13 Butane	43	4.515	4.523	-0.008	70	3953	0.0290	
28 2-Methyl-2-propanol	59	6.511	6.492	0.019	52	4198	0.0292	
44 Tetrahydrofuran	42	9.701	9.833	-0.132	6	7078	0.0847	
47 n-Butanol	31	10.992	10.968	0.024	57	1793	0.0414	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	73	12686	0.0626	

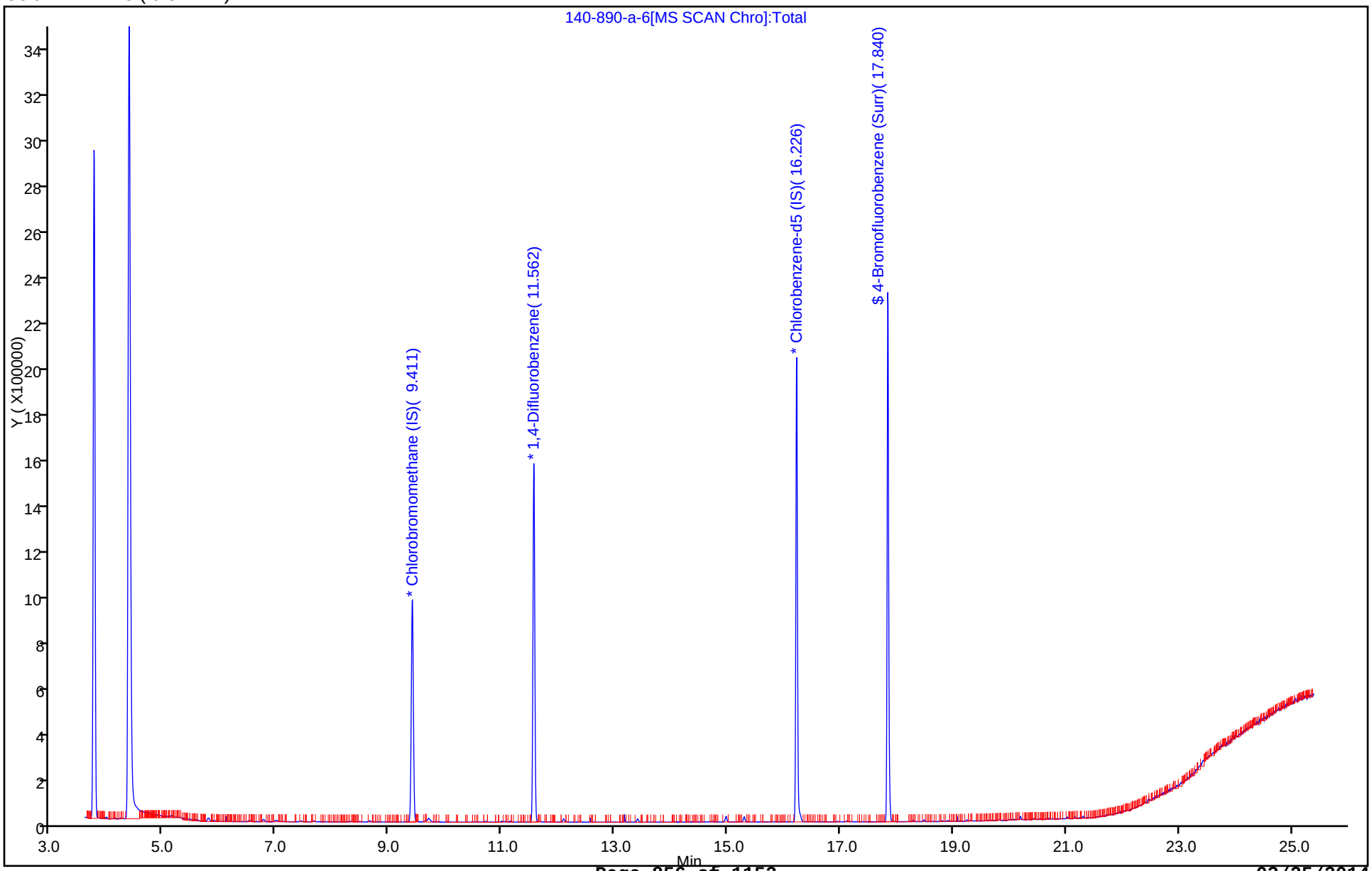
Report Date: 19-Feb-2014 13:48:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D

Injection Date:	17-Feb-2014 16:45:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-890-A-6	Lab Sample ID:	140-890-6	Worklist Smp#:	5
Client ID:	09516				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 Lab Sample ID: 140-890-9

Matrix: Air Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 Lab Sample ID: 140-890-9

Matrix: Air Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D
Lims ID: 140-890-A-9 Lab Sample ID: 140-890-9
Client ID: 09514
Sample Type: Client
Inject. Date: 19-Feb-2014 03:40:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09514
Misc. Info.: E021814,TO155,,140-0000446-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 09:21:06 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:21:06

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	227568	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1144242	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	998758	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	872183	3.99	
	7 Propene	41	3.319	3.314	0.005	89	1956	0.0342	
	62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	4362	0.0322	

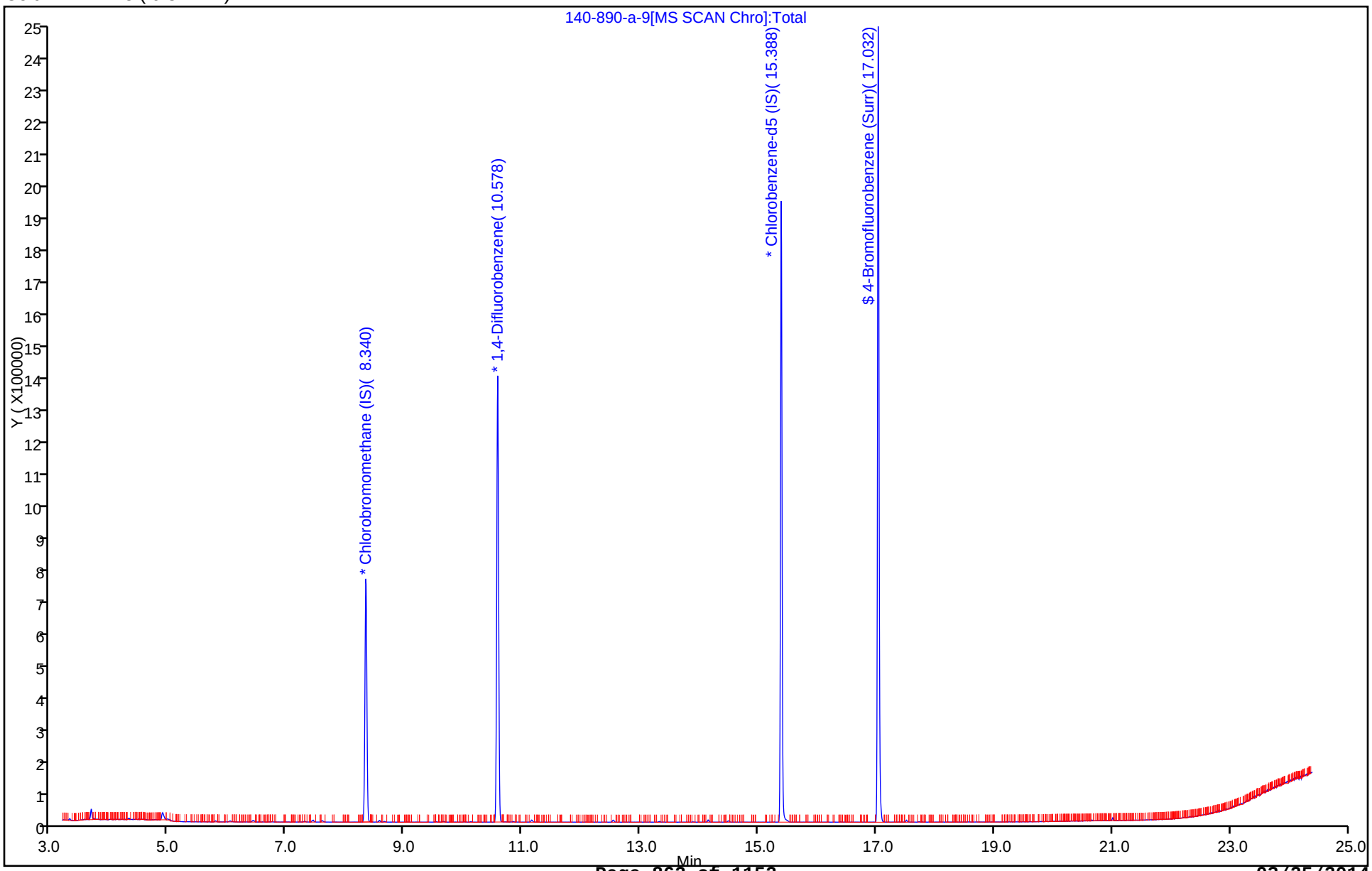
Report Date: 19-Feb-2014 09:21:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D

Injection Date:	19-Feb-2014 03:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-9	Lab Sample ID:	140-890-9	Worklist Smp#:	21
Client ID:	09514				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 Lab Sample ID: 140-890-10

Matrix: Air Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 Lab Sample ID: 140-890-10

Matrix: Air Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D				
Lims ID:	140-890-A-10	Lab Sample ID:	140-890-10		
Client ID:	10716				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 00:31:30	ALS Bottle#:	7	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10716				
Misc. Info.:	J021814,TO15,,140-0000448-016				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 07:51:30	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 07:51:30		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.411	-0.002	93	257619	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.568	-0.002	97	1197722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.227	-0.002	93	1016182	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.841	-0.002	81	802603	3.96	

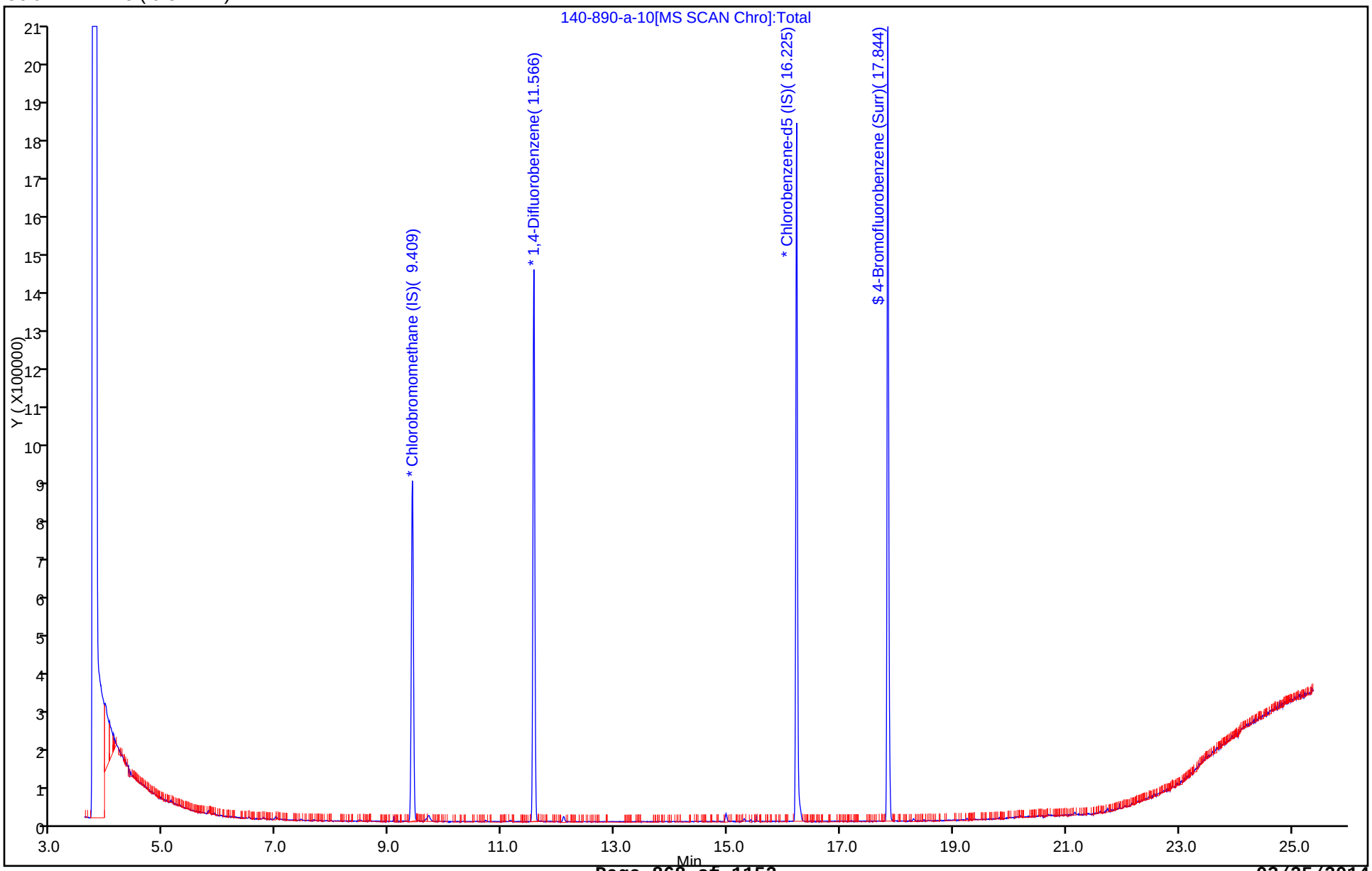
Report Date: 19-Feb-2014 07:51:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D

Injection Date:	19-Feb-2014 00:31:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-10	Lab Sample ID:	140-890-10	Worklist Smp#:	16
Client ID:	10716				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.065		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D
Lims ID: 140-890-A-11 Lab Sample ID: 140-890-11
Client ID: 10332
Sample Type: Client
Inject. Date: 19-Feb-2014 01:27:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10332
Misc. Info.: J021814,TO15,,140-0000448-017
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:54:41 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:54:41

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.408	9.411	-0.003	94	253024	4.00	
*	2 1,4-Difluorobenzene	114	11.565	11.568	-0.003	97	1223072	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	93	1007290	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	81	787777	3.92	
	62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.397	0.002	85	11803	0.0568	
	73 Tetrachloroethene	129	15.406	15.409	-0.003	73	5816	0.0649	

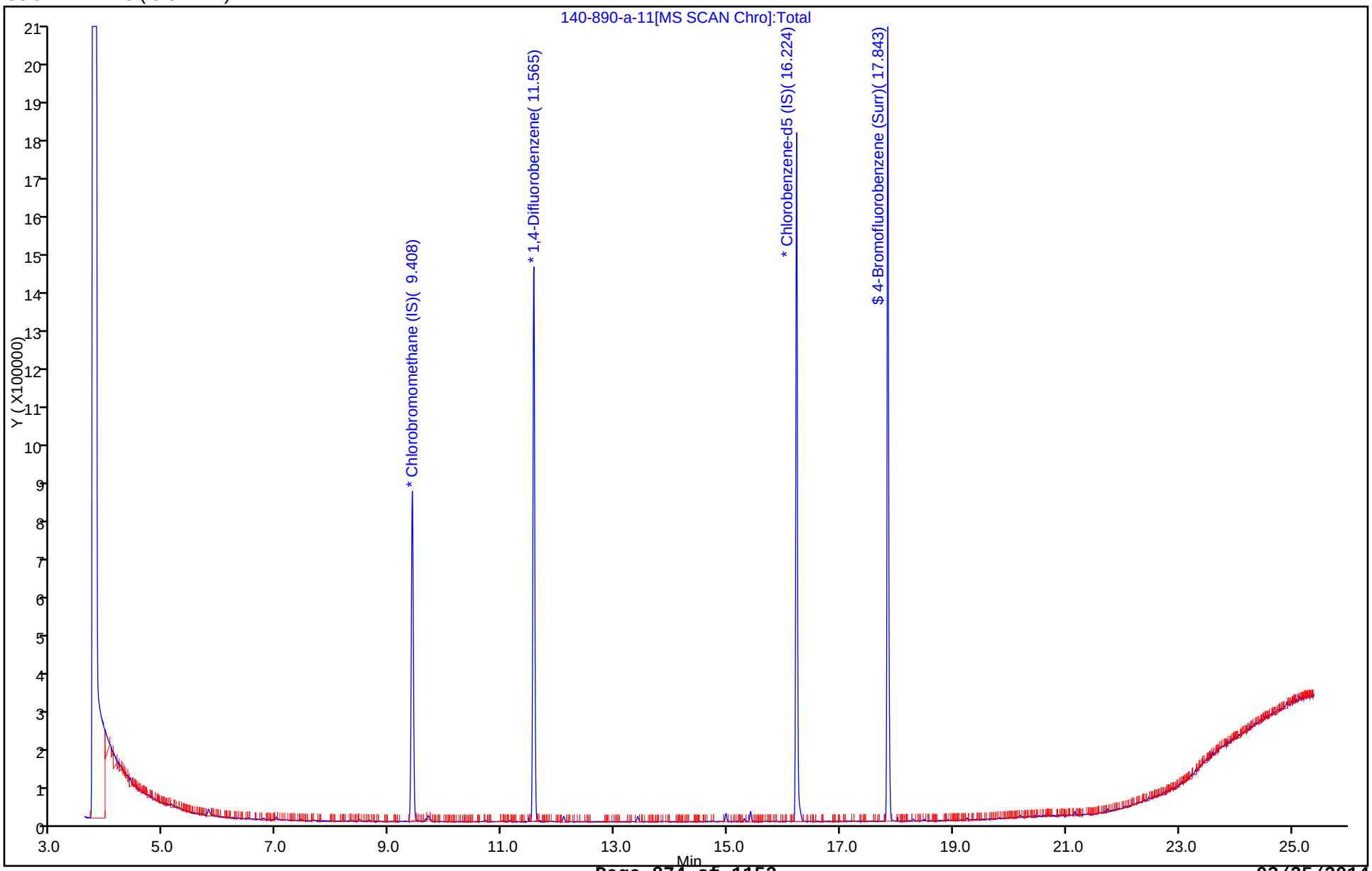
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11	Worklist Smp#:	17
Client ID:	10332				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



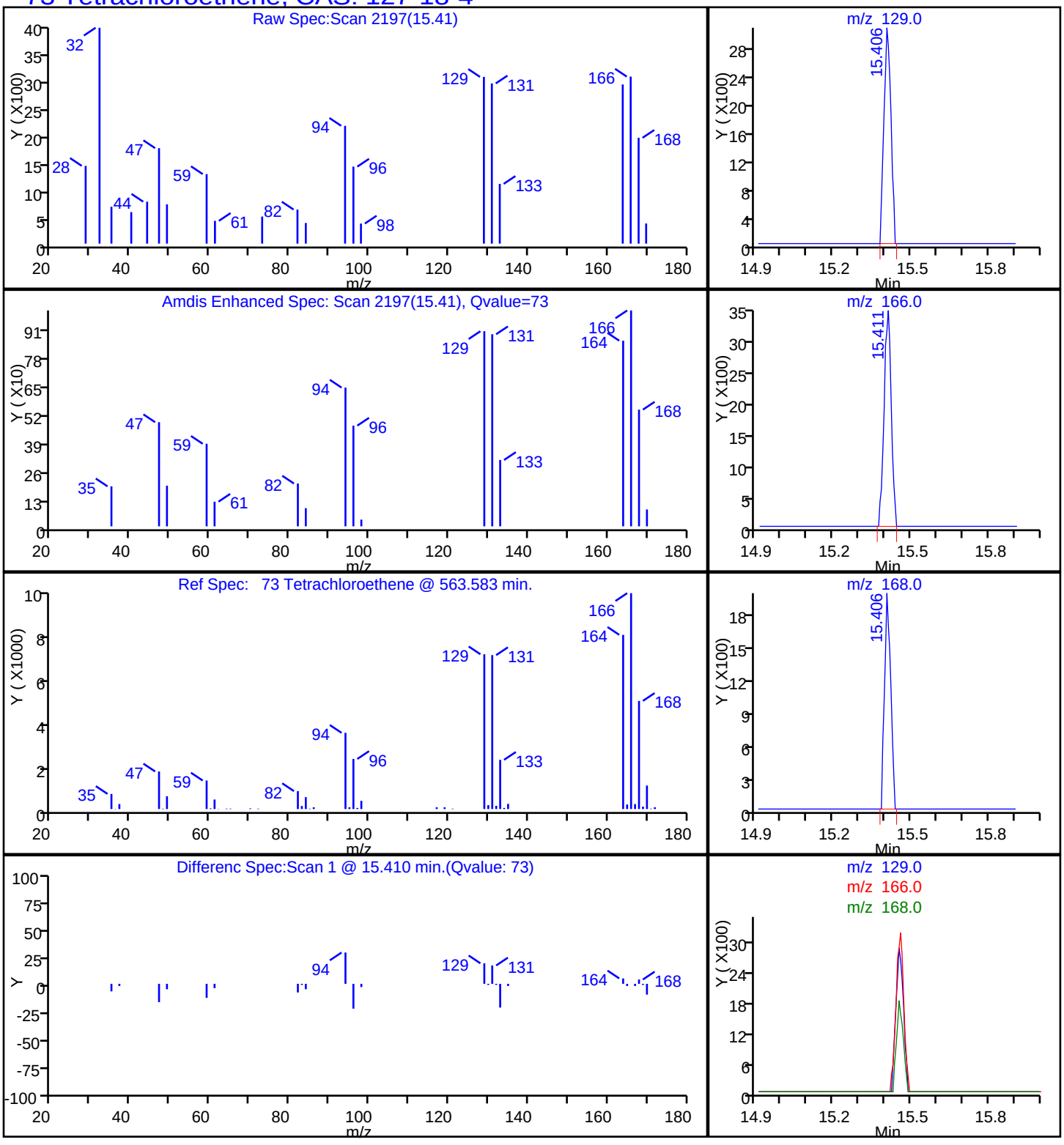
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ		
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11		
Client ID:	10332				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 Lab Sample ID: 140-890-13

Matrix: Air Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 19-Feb-2014 07:57:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D
Lims ID: 140-890-A-13 Lab Sample ID: 140-890-13
Client ID: 09675
Sample Type: Client
Inject. Date: 19-Feb-2014 03:16:30 ALS Bottle#: 10 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09675
Misc. Info.: J021814,TO15,,140-0000448-019
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:57:17 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:57:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.411	0.001	94	254679	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.568	-0.004	97	1217733	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.227	-0.005	93	1047481	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.841	0.0	82	841261	4.03	
9 Chloromethane	52	4.231	4.231	0.0	47	2838	0.0864	
47 n-Butanol	31	10.988	10.966	0.022	58	1764	0.0399	
62 4-Methyl-2-pentanone (MIBK)	43	13.409	13.397	0.012	86	8200	0.0397	

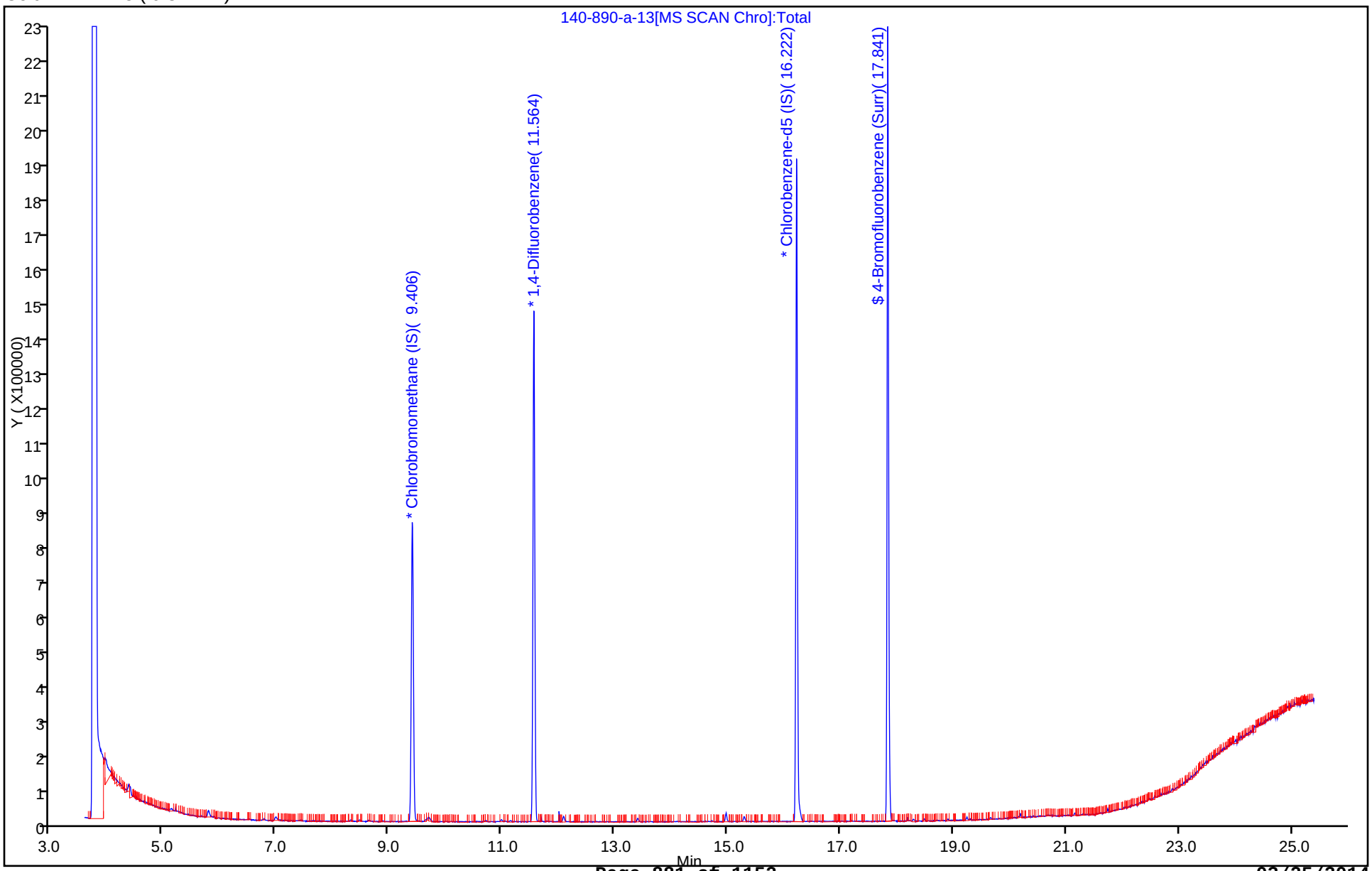
Report Date: 19-Feb-2014 07:57:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D

Injection Date:	19-Feb-2014 03:16:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-13	Lab Sample ID:	140-890-13	Worklist Smp#:	19
Client ID:	09675				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D				
Lims ID:	140-890-A-14	Lab Sample ID:	140-890-14		
Client ID:	10005				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 04:11:30	ALS Bottle#:	11	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10005				
Misc. Info.:	J021814,TO15,,140-0000448-020				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 07:57:39	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 07:57:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.411	-0.008	93	249140	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.568	-0.008	97	1242271	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	92	1006844	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	85	658099	3.28	
62 4-Methyl-2-pentanone (MIBK)	43	13.405	13.397	0.008	76	8084	0.0383	

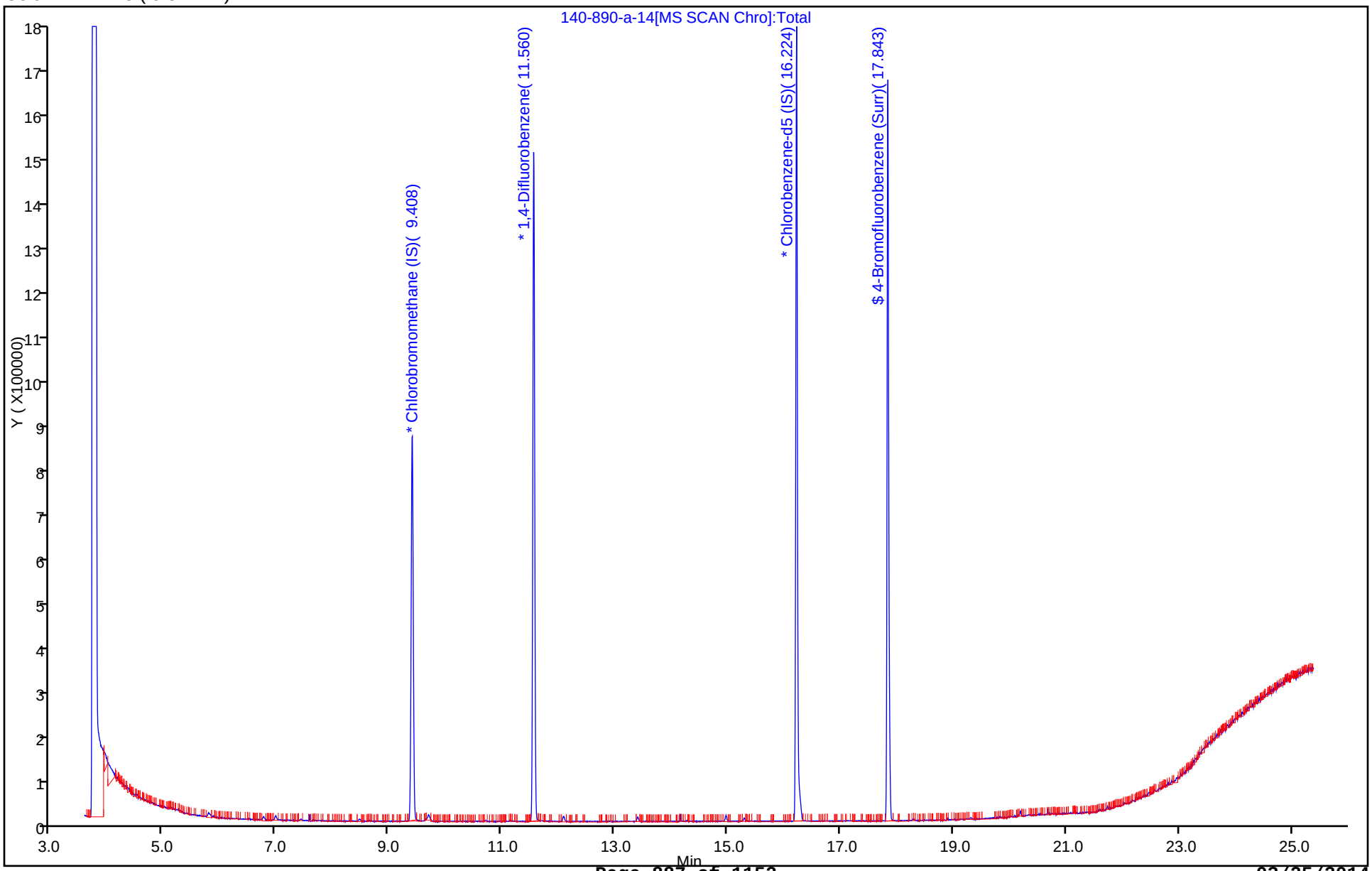
Report Date: 19-Feb-2014 07:57:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D

Injection Date:	19-Feb-2014 04:11:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-14	Lab Sample ID:	140-890-14	Worklist Smp#:	20
Client ID:	10005				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-892-1

SDG No.:

Client Sample ID: 10330 | Lab Sample ID: 140-892-9

Matrix: Air | Lab File ID: 140-892-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/17/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 10:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-892-1

SDG No.:

Client Sample ID: 10330 | Lab Sample ID: 140-892-9

Matrix: Air | Lab File ID: 140-892-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/17/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 10:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-892-1

SDG No.:

Client Sample ID: 10330 | Lab Sample ID: 140-892-9

Matrix: Air | Lab File ID: 140-892-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/17/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 10:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-892-1

SDG No.:

Client Sample ID: 10330 Lab Sample ID: 140-892-9

Matrix: Air Lab File ID: 140-892-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/17/2014 12:00

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 10:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-892-a-9.D
Lims ID: 140-892-A-9 Lab Sample ID: 140-892-9
Client ID: 10330
Sample Type: Client
Inject. Date: 18-Feb-2014 10:49:30 ALS Bottle#: 15 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10330
Misc. Info.: J021814,TO15,,140-0000448-005
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 11:34:45 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 11:34:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.409	9.411	-0.002	95	268759	4.00	
*	2 1,4-Difluorobenzene	114	11.561	11.568	-0.007	97	1264018	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.225	16.227	-0.002	92	1006295	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.839	17.841	-0.002	82	774308	3.86	
	13 Butane	43	4.520	4.521	-0.001	84	15217	0.0994	
	19 2-Methylbutane	43	5.423	5.419	0.004	73	4503	0.0356	

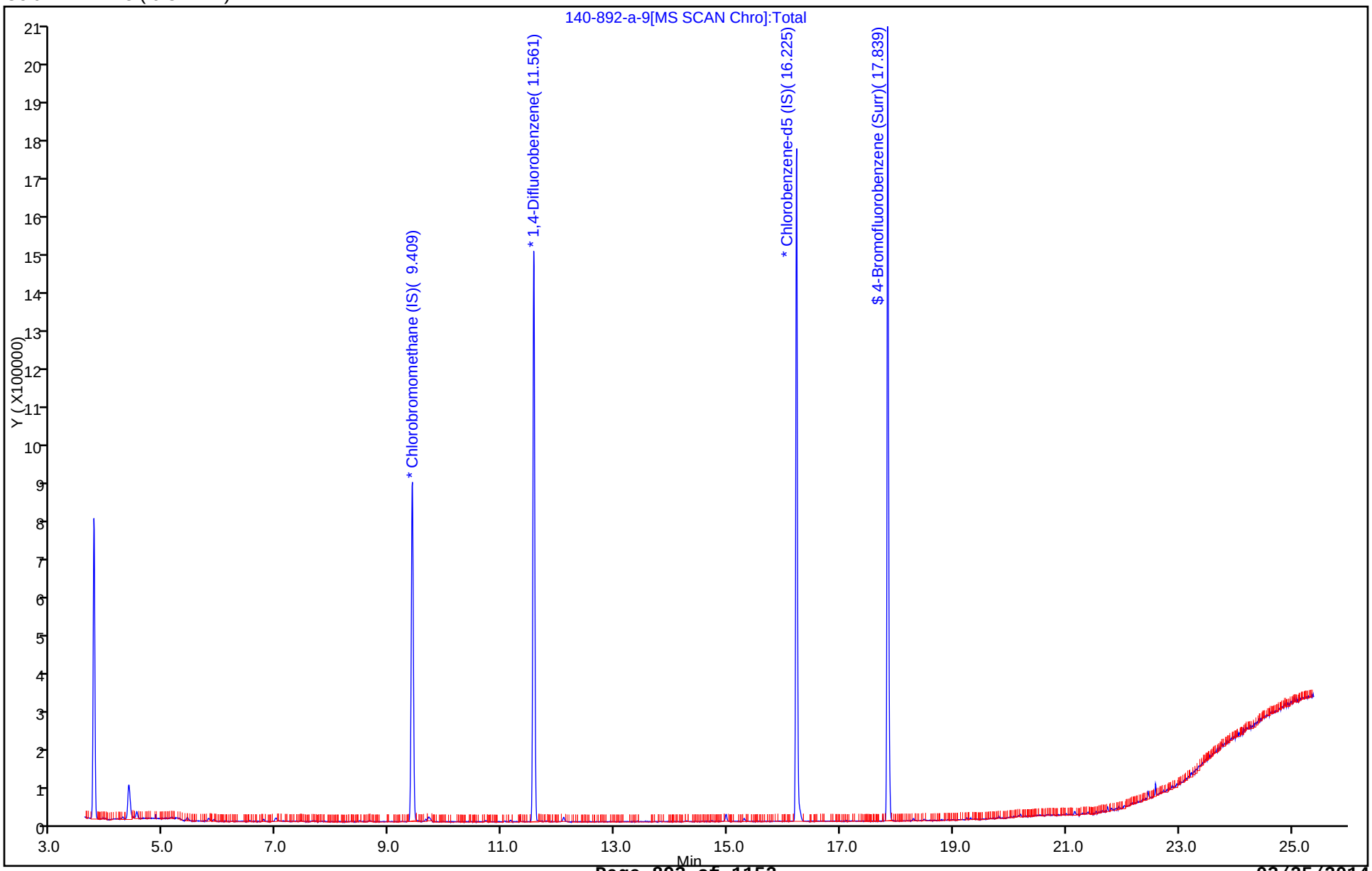
Report Date: 18-Feb-2014 11:34:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-892-a-9.D

Injection Date:	18-Feb-2014 10:49:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-892-A-9	Lab Sample ID:	140-892-9	Worklist Smp#:	5
Client ID:	10330				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 | Lab Sample ID: 140-924-1

Matrix: Air | Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 | Lab Sample ID: 140-924-1

Matrix: Air | Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 Lab Sample ID: 140-924-1

Matrix: Air Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10178 Lab Sample ID: 140-924-1

Matrix: Air Lab File ID: 140-924-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-1.D
Lims ID: 140-924-A-1 Lab Sample ID: 140-924-1
Client ID: 10178
Sample Type: Client
Inject. Date: 21-Feb-2014 00:06:30 ALS Bottle#: 7 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10178
Misc. Info.: E022014,TO155,,140-0000454-016
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:48:38 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:48:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	264931	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1326530	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1163983	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	997607	3.91	
7 Propene	41	3.314	3.309	0.005	91	2948	0.0442	
23 Acetone	58	4.883	4.889	-0.006	98	29636	0.7385	
31 Methylene Chloride	84	5.789	5.795	-0.006	75	6417	0.0848	
40 Hexane	56	7.590	7.596	-0.006	52	1705	0.0242	

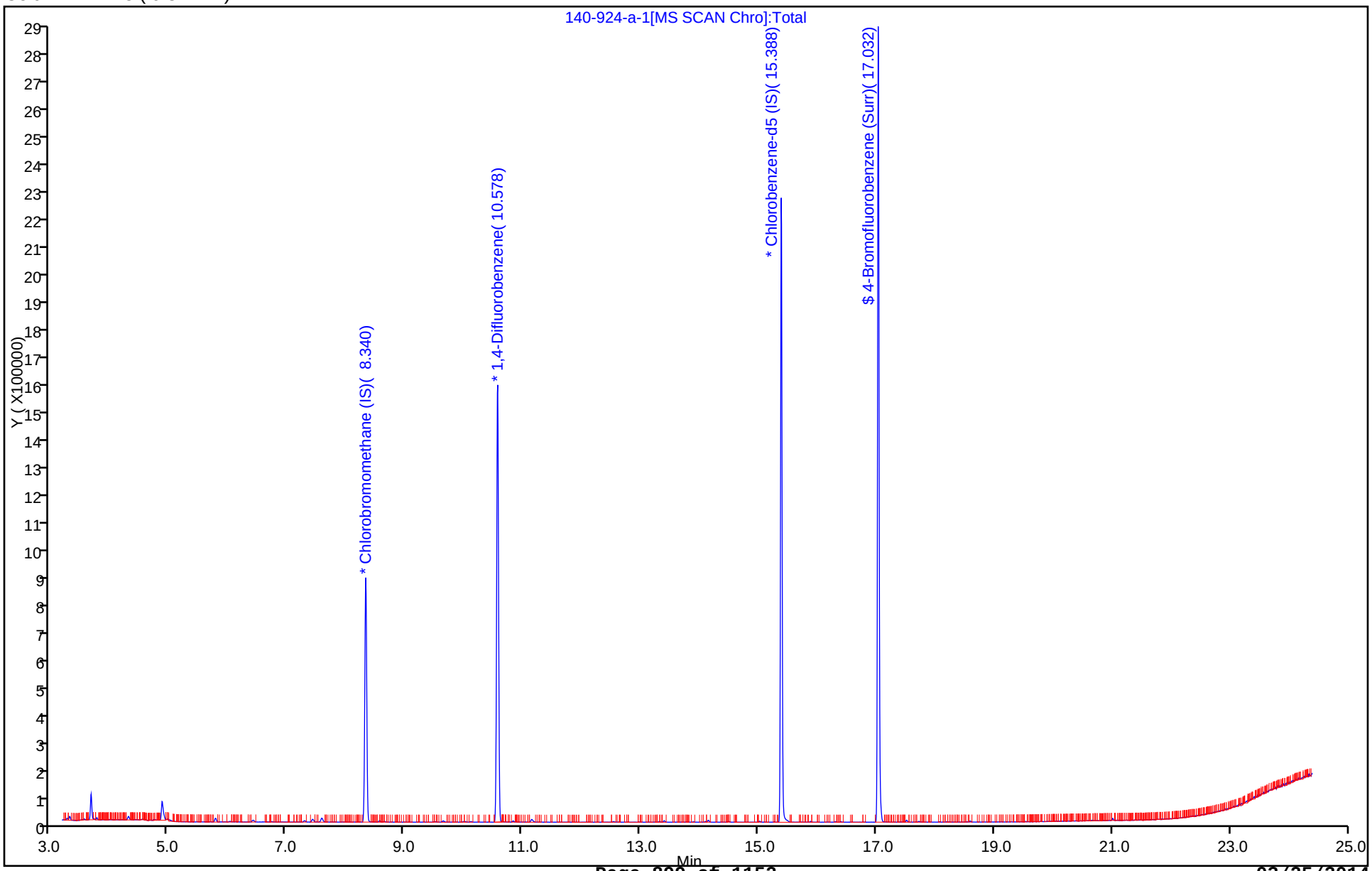
Report Date: 21-Feb-2014 06:48:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-1.D

Injection Date:	21-Feb-2014 00:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-1	Lab Sample ID:	140-924-1	Worklist Smp#:	16
Client ID:	10178				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 | Lab Sample ID: 140-924-2

Matrix: Air | Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 | Lab Sample ID: 140-924-2

Matrix: Air | Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 | Lab Sample ID: 140-924-2

Matrix: Air | Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10573 Lab Sample ID: 140-924-2

Matrix: Air Lab File ID: 140-924-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 00:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-2.D
Lims ID: 140-924-A-2 Lab Sample ID: 140-924-2
Client ID: 10573
Sample Type: Client
Inject. Date: 21-Feb-2014 00:51:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10573
Misc. Info.: E022014,TO155,,140-0000454-017
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:49:12 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:49:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	263593	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1289974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1134901	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	978479	3.94	
7 Propene	41	3.320	3.309	0.011	72	2464	0.0372	
19 2-Methylbutane	43	4.549	4.544	0.005	77	1478	0.0160	
31 Methylene Chloride	84	5.795	5.795	0.0	71	4900	0.0651	
40 Hexane	56	7.590	7.596	-0.006	47	978	0.0139	
62 4-Methyl-2-pentanone (MIBK)	43	12.541	12.524	0.017	80	3622	0.0237	

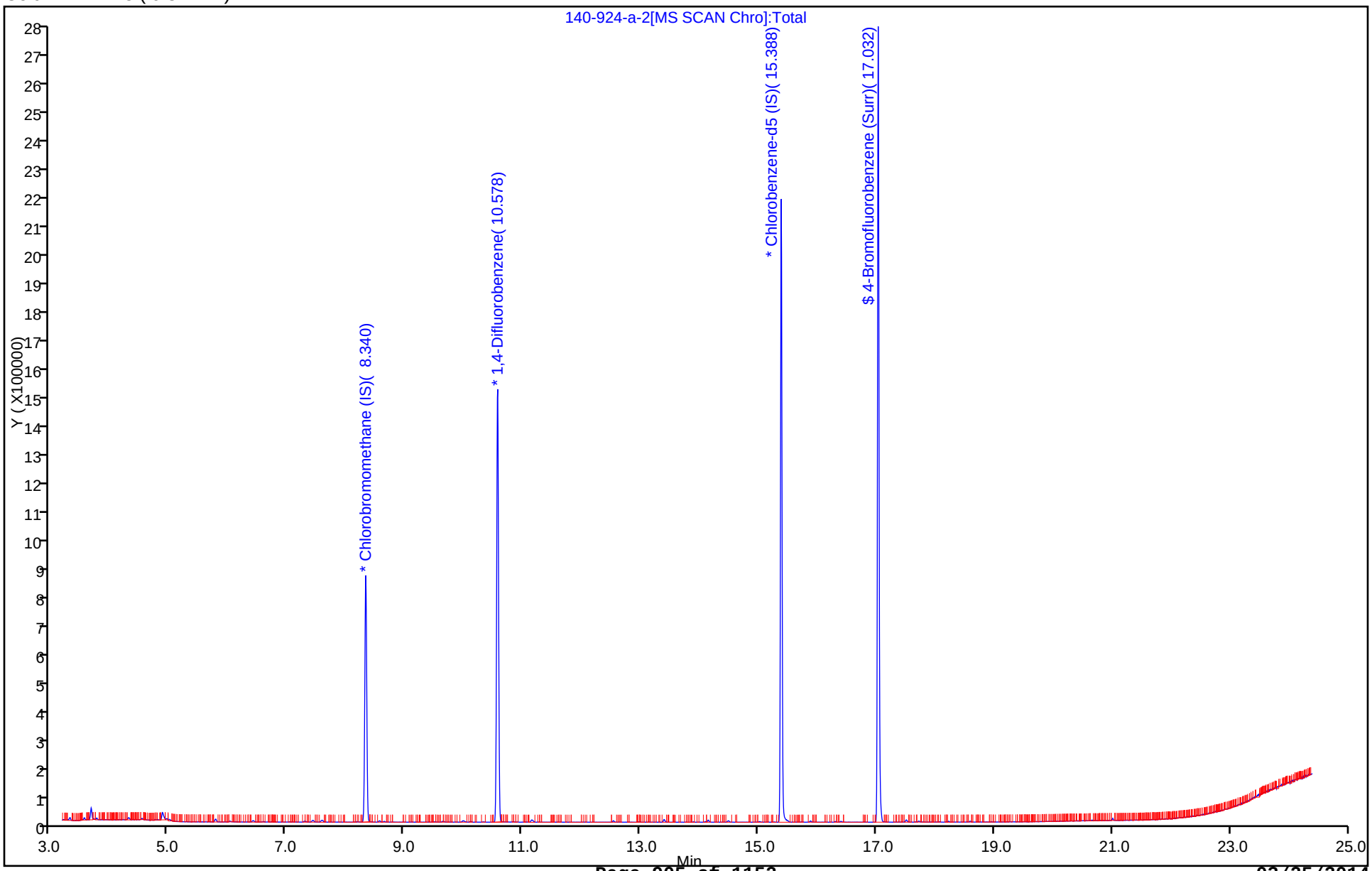
Report Date: 21-Feb-2014 06:49:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-2.D

Injection Date:	21-Feb-2014 00:51:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-2	Lab Sample ID:	140-924-2	Worklist Smp#:	17
Client ID:	10573				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 | Lab Sample ID: 140-924-3

Matrix: Air | Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 | Lab Sample ID: 140-924-3

Matrix: Air | Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 Lab Sample ID: 140-924-3

Matrix: Air Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10331 Lab Sample ID: 140-924-3

Matrix: Air Lab File ID: 140-924-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 01:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-3.D				
Lims ID:	140-924-A-3	Lab Sample ID:	140-924-3		
Client ID:	10331				
Sample Type:	Client				
Inject. Date:	21-Feb-2014 01:37:30	ALS Bottle#:	9	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10331				
Misc. Info.:	E022014,TO155,,140-0000454-018				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Feb-2014 06:49:51	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK011				
First Level Reviewer: tajh		Date:	21-Feb-2014 06:49:51		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	264141	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1320820	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1160113	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1007016	3.96	
7 Propene	41	3.325	3.309	0.016	54	4236	0.0638	
14 Butane	43	3.778	3.778	0.0	81	5398	0.0427	
19 2-Methylbutane	43	4.544	4.544	0.0	84	7168	0.0775	
25 Pentane	72	4.964	4.964	0.0	89	1219	0.0703	
31 Methylene Chloride	84	5.800	5.795	0.005	75	4651	0.0616	
40 Hexane	56	7.596	7.596	0.0	74	1597	0.0227	
65 Toluene	91	13.403	13.409	-0.006	91	25369	0.0816	

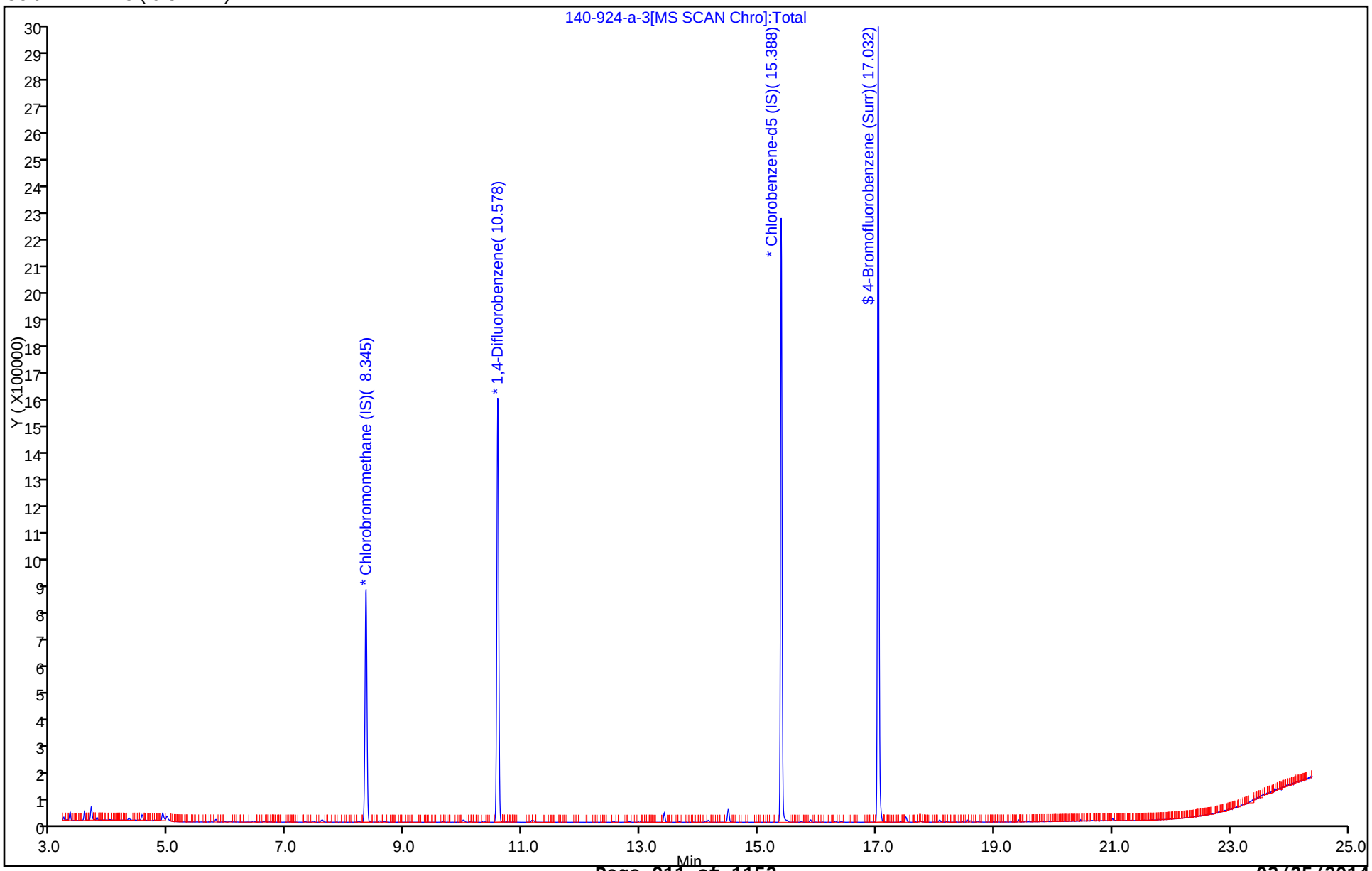
Report Date: 21-Feb-2014 06:49:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-3.D

Injection Date:	21-Feb-2014 01:37:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-3	Lab Sample ID:	140-924-3	Worklist Smp#:	18
Client ID:	10331				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 Lab Sample ID: 140-924-5

Matrix: Air Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 | Lab Sample ID: 140-924-5

Matrix: Air | Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 | Lab Sample ID: 140-924-5

Matrix: Air | Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10369 Lab Sample ID: 140-924-5

Matrix: Air Lab File ID: 140-924-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-5.D
Lims ID: 140-924-A-5 Lab Sample ID: 140-924-5
Client ID: 10369
Sample Type: Client
Inject. Date: 21-Feb-2014 03:07:30 ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10369
Misc. Info.: E022014,TO155,,140-0000454-020
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:51:28 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:51:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	251048	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1265049	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1088312	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949301	3.98	
7 Propene	41	3.314	3.309	0.005	88	2634	0.0417	
19 2-Methylbutane	43	4.538	4.544	-0.006	35	1402	0.0159	
23 Acetone	58	4.883	4.889	-0.006	99	32684	0.8595	
24 Isopropyl alcohol	45	4.975	4.975	0.0	80	5718	0.0584	
31 Methylene Chloride	84	5.789	5.795	-0.006	78	5169	0.0721	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	93	3454	0.0841	
40 Hexane	56	7.590	7.596	-0.006	36	1186	0.0178	
56 Trichloroethene	130	11.300	11.316	-0.016	64	3043	0.0242	
91 n-Decane	57	18.073	18.073	0.0	83	5663	0.0328	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	78	9488	0.0284	

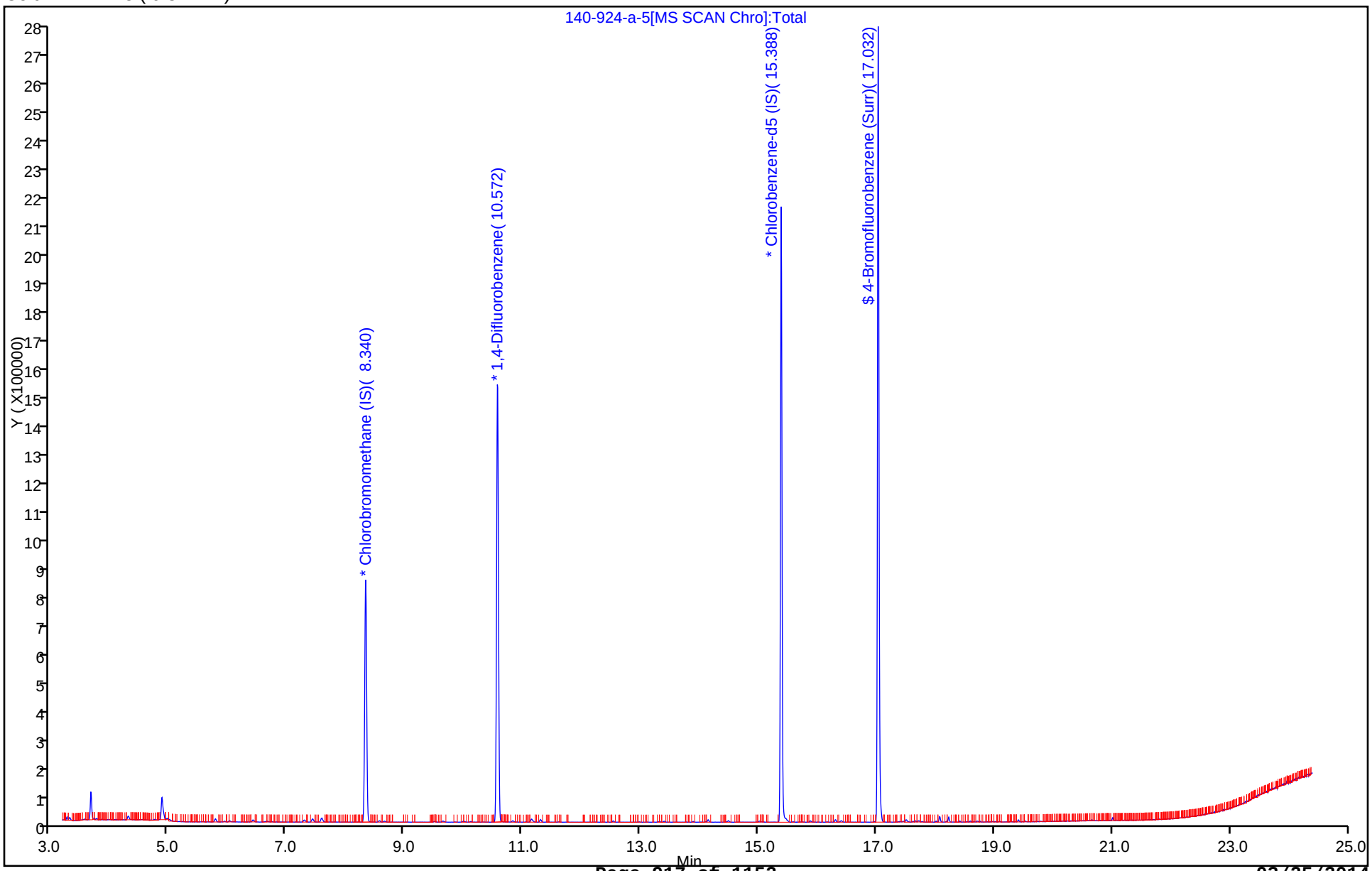
Report Date: 21-Feb-2014 06:51:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-5.D

Injection Date:	21-Feb-2014 03:07:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-5	Lab Sample ID:	140-924-5	Worklist Smp#:	20
Client ID:	10369				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 | Lab Sample ID: 140-924-6

Matrix: Air | Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 | Lab Sample ID: 140-924-6

Matrix: Air | Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 | Lab Sample ID: 140-924-6

Matrix: Air | Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 10709 Lab Sample ID: 140-924-6

Matrix: Air Lab File ID: 140-924-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 03:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-6.D
Lims ID: 140-924-A-6 Lab Sample ID: 140-924-6
Client ID: 10709
Sample Type: Client
Inject. Date: 21-Feb-2014 03:53:30 ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10709
Misc. Info.: E022014,TO155,,140-0000454-021
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:52:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:52:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	239969	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1193360	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1057922	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940280	4.06	
7 Propene	41	3.325	3.309	0.016	62	2322	0.0385	
14 Butane	43	3.783	3.778	0.005	82	6763	0.0589	
19 2-Methylbutane	43	4.549	4.544	0.005	76	2549	0.0303	
40 Hexane	56	7.590	7.596	-0.006	78	2107	0.0330	
54 n-Heptane	71	11.181	11.192	-0.011	70	1918	0.0211	

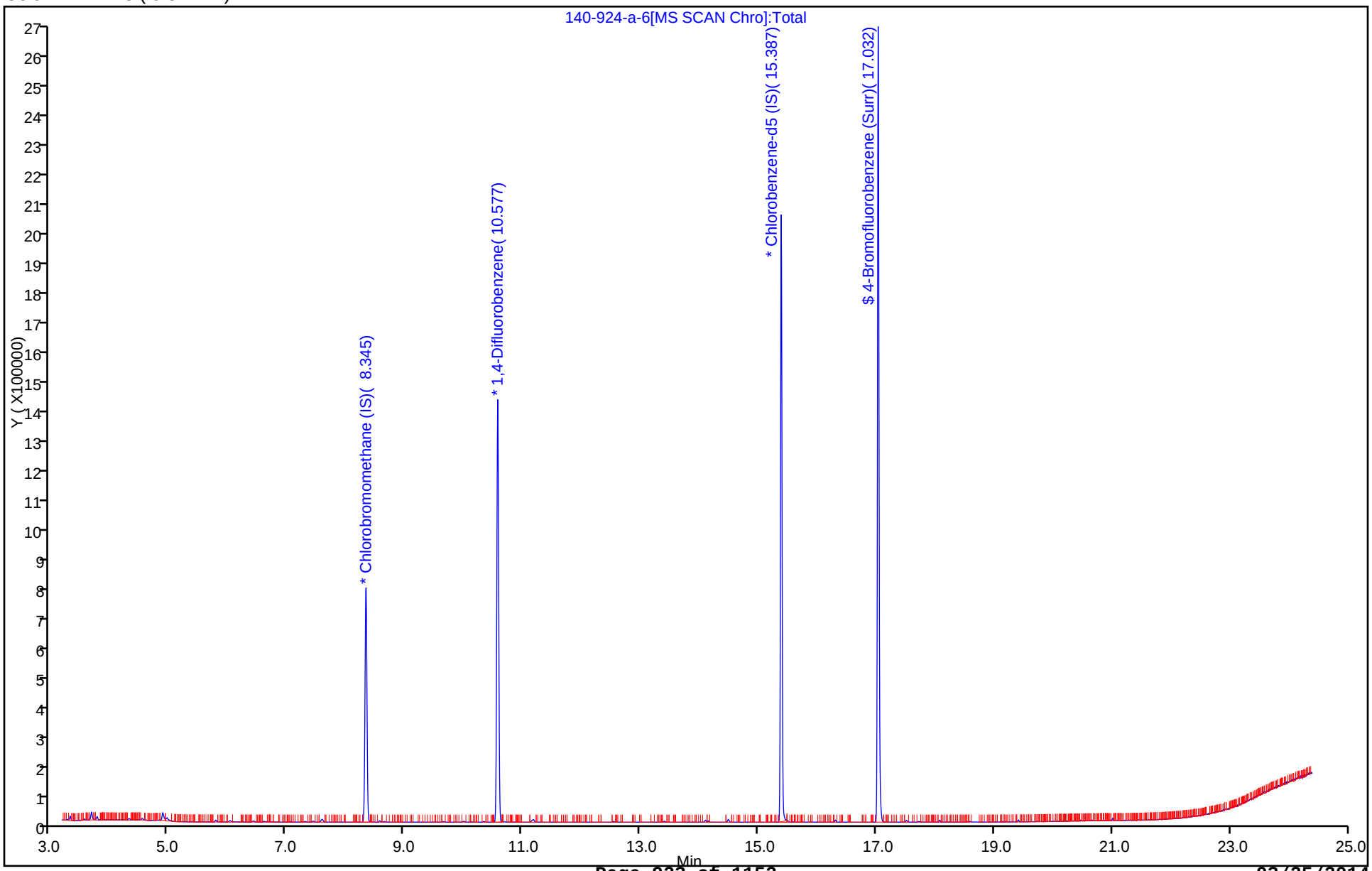
Report Date: 21-Feb-2014 06:52:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-6.D

Injection Date:	21-Feb-2014 03:53:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-6	Lab Sample ID:	140-924-6	Worklist Smp#:	21
Client ID:	10709				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 | Lab Sample ID: 140-924-7

Matrix: Air | Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 | Lab Sample ID: 140-924-7

Matrix: Air | Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 Lab Sample ID: 140-924-7

Matrix: Air Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09595 Lab Sample ID: 140-924-7

Matrix: Air Lab File ID: 140-924-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-7.D
Lims ID: 140-924-A-7 Lab Sample ID: 140-924-7
Client ID: 09595
Sample Type: Client
Inject. Date: 21-Feb-2014 04:38:30 ALS Bottle#: 13 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09595
Misc. Info.: E022014,TO155,,140-0000454-022
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:52:38 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:52:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	218262	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1062257	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	992068	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	869744	4.00	
19 2-Methylbutane	43	4.549	4.544	0.005	59	1722	0.0225	
23 Acetone	58	4.889	4.889	0.0	100	22586	0.6832	
40 Hexane	56	7.590	7.596	-0.006	49	837	0.0144	

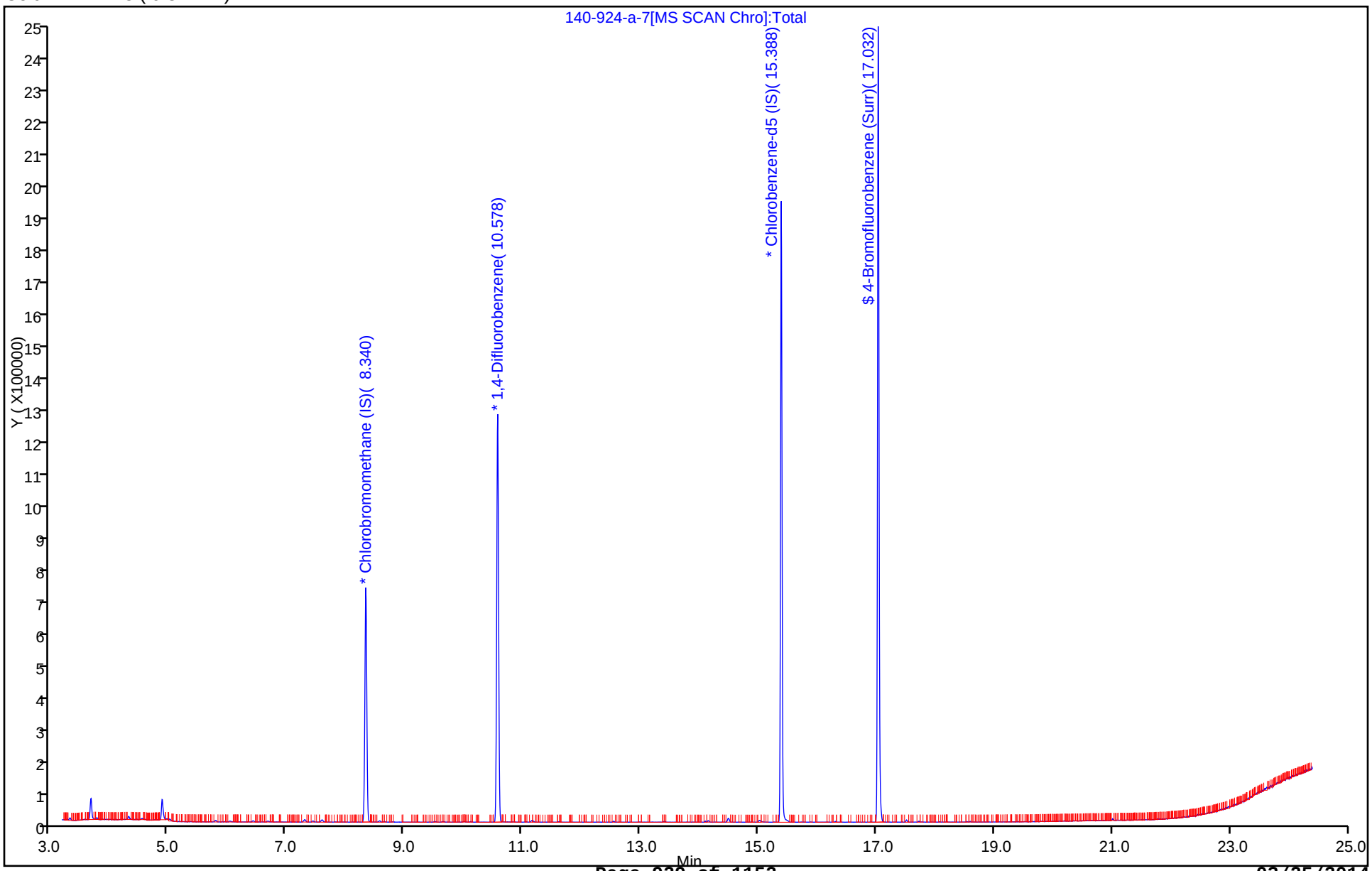
Report Date: 21-Feb-2014 06:52:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-7.D

Injection Date:	21-Feb-2014 04:38:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-7	Lab Sample ID:	140-924-7	Worklist Smp#:	22
Client ID:	09595				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 | Lab Sample ID: 140-924-8

Matrix: Air | Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 | Lab Sample ID: 140-924-8

Matrix: Air | Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 | Lab Sample ID: 140-924-8

Matrix: Air | Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-924-1

SDG No.:

Client Sample ID: 09613 Lab Sample ID: 140-924-8

Matrix: Air Lab File ID: 140-924-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:50

Sample wt/vol: 500(mL) Date Analyzed: 02/21/2014 05:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-8.D				
Lims ID:	140-924-A-8	Lab Sample ID:	140-924-8		
Client ID:	09613				
Sample Type:	Client				
Inject. Date:	21-Feb-2014 05:24:30	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09613				
Misc. Info.:	E022014,TO155,,140-0000454-023				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Feb-2014 06:53:12	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK011				
First Level Reviewer: tajh		Date:	21-Feb-2014 06:53:12		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	82	234630	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1123256	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1033420	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	930057	4.11	
7 Propene	41	3.320	3.309	0.011	74	1988	0.0337	
14 Butane	43	3.778	3.778	0.0	83	4934	0.0440	
19 2-Methylbutane	43	4.549	4.544	0.005	72	2633	0.0320	
24 Isopropyl alcohol	45	4.980	4.975	0.005	55	3764	0.0411	
40 Hexane	56	7.596	7.596	0.0	81	1767	0.0283	

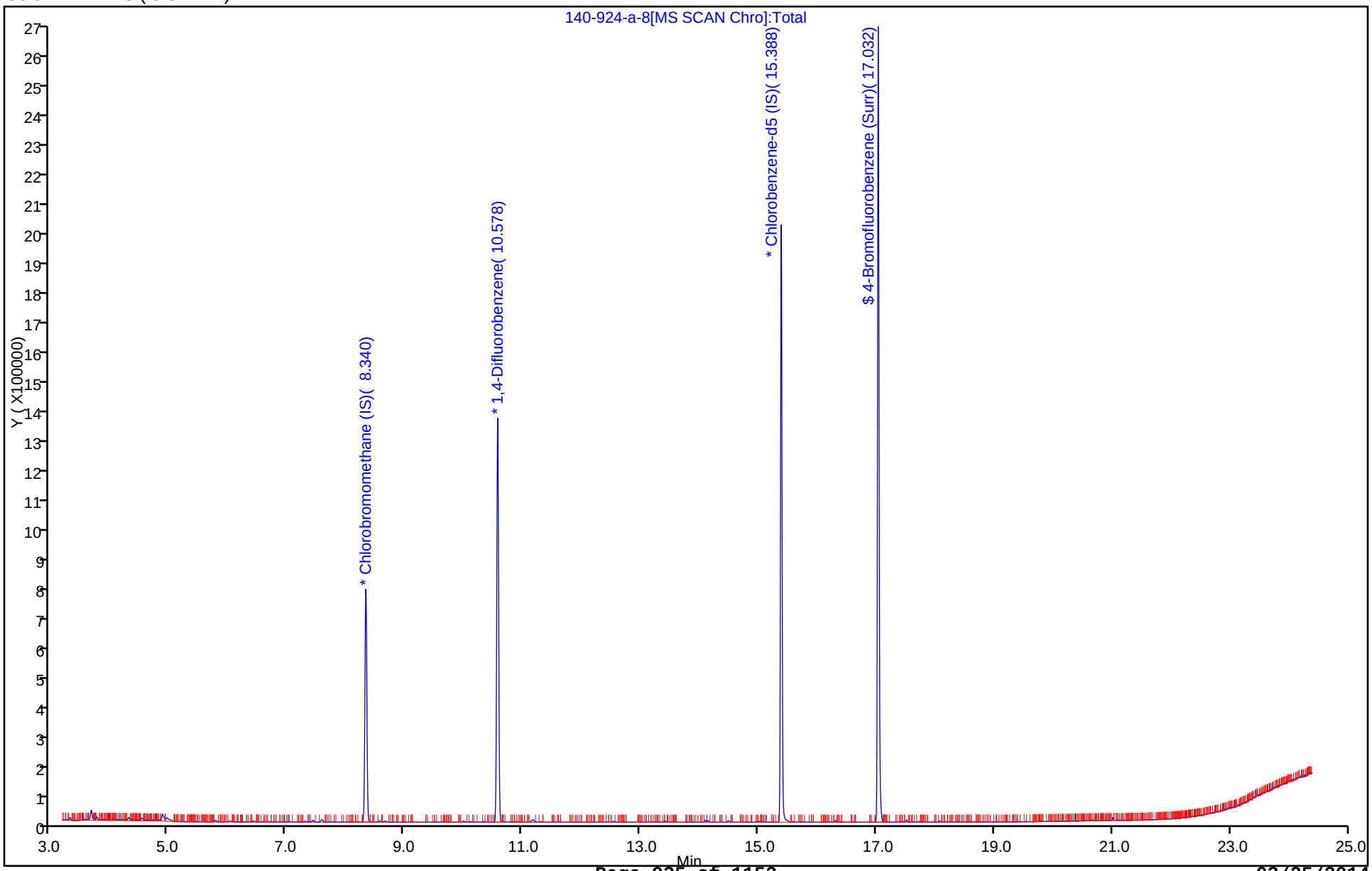
Report Date: 21-Feb-2014 06:53:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-924-a-8.D

Injection Date:	21-Feb-2014 05:24:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-924-A-8	Lab Sample ID:	140-924-8	Worklist Smp#:	23
Client ID:	09613				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 | Lab Sample ID: 140-925-2

Matrix: Air | Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D				
Lims ID:	140-925-A-2	Lab Sample ID:	140-925-2		
Client ID:	09597				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 03:01:30	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09597				
Misc. Info.:	J022114,TO15,,140-0000456-014				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:40:23	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:40:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	391979	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.563	-0.001	94	1790004	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	93	1514247	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1151377	3.81	
33 Carbon disulfide	76	6.954	6.954	0.0	67	6210	0.0146	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.391	0.015	86	15435	0.0508	

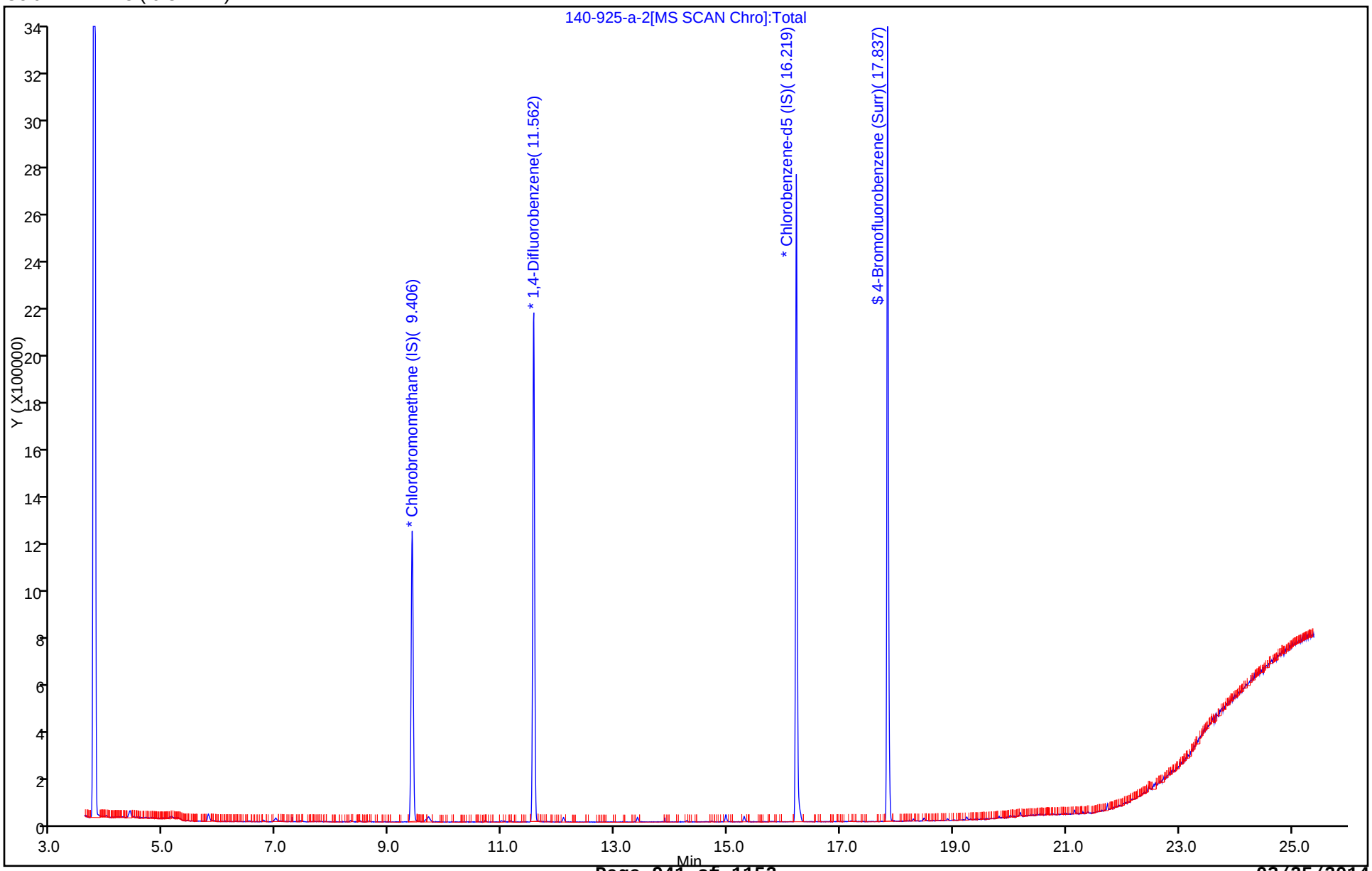
Report Date: 23-Feb-2014 13:40:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D

Injection Date:	22-Feb-2014 03:01:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-2	Lab Sample ID:	140-925-2	Worklist Smp#:	14
Client ID:	09597				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 | Lab Sample ID: 140-925-4

Matrix: Air | Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D				
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4		
Client ID:	10542				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 04:49:30	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10542				
Misc. Info.:	J022114,TO15,,140-0000456-016				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:41:42	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:41:42		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.406	0.001	90	394384	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.563	-0.005	94	1771461	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	92	1549526	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.838	0.0	85	1193025	3.86	
48 Benzene	78	11.036	11.046	-0.010	64	10055	0.0272	

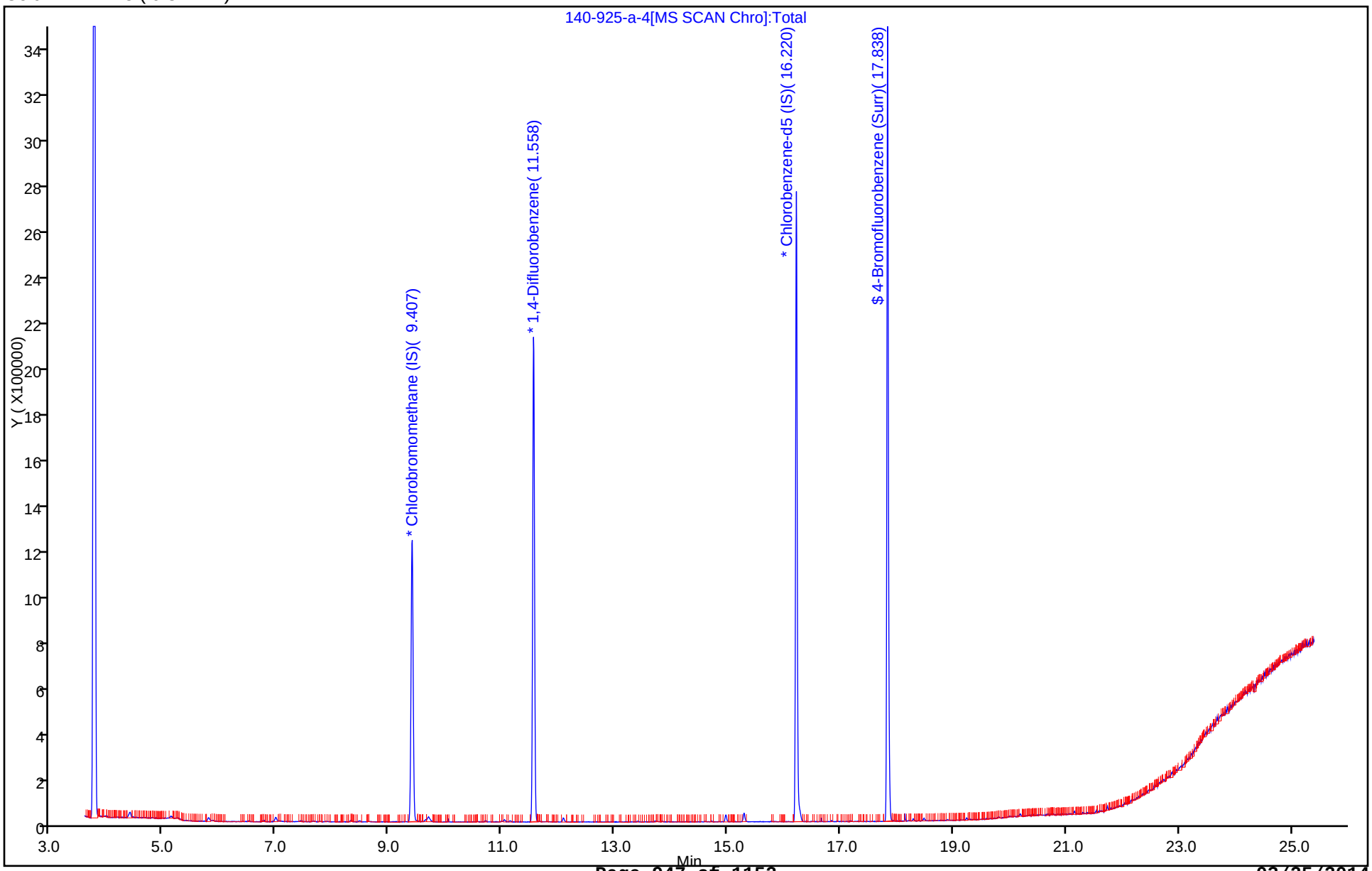
Report Date: 23-Feb-2014 13:41:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D

Injection Date:	22-Feb-2014 04:49:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4	Worklist Smp#:	16
Client ID:	10542				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 Lab Sample ID: 140-925-5

Matrix: Air Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 Lab Sample ID: 140-925-5

Matrix: Air Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D				
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5		
Client ID:	10129				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 05:47:30	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10129				
Misc. Info.:	J022114,TO15,,140-0000456-017				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:06	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.405	9.406	-0.001	90	397178	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.563	-0.007	94	1754424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.218	16.219	-0.001	92	1457502	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1122664	3.86	
33 Carbon disulfide	76	6.953	6.954	-0.001	83	15054	0.0350	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.391	0.010	86	15750	0.0529	

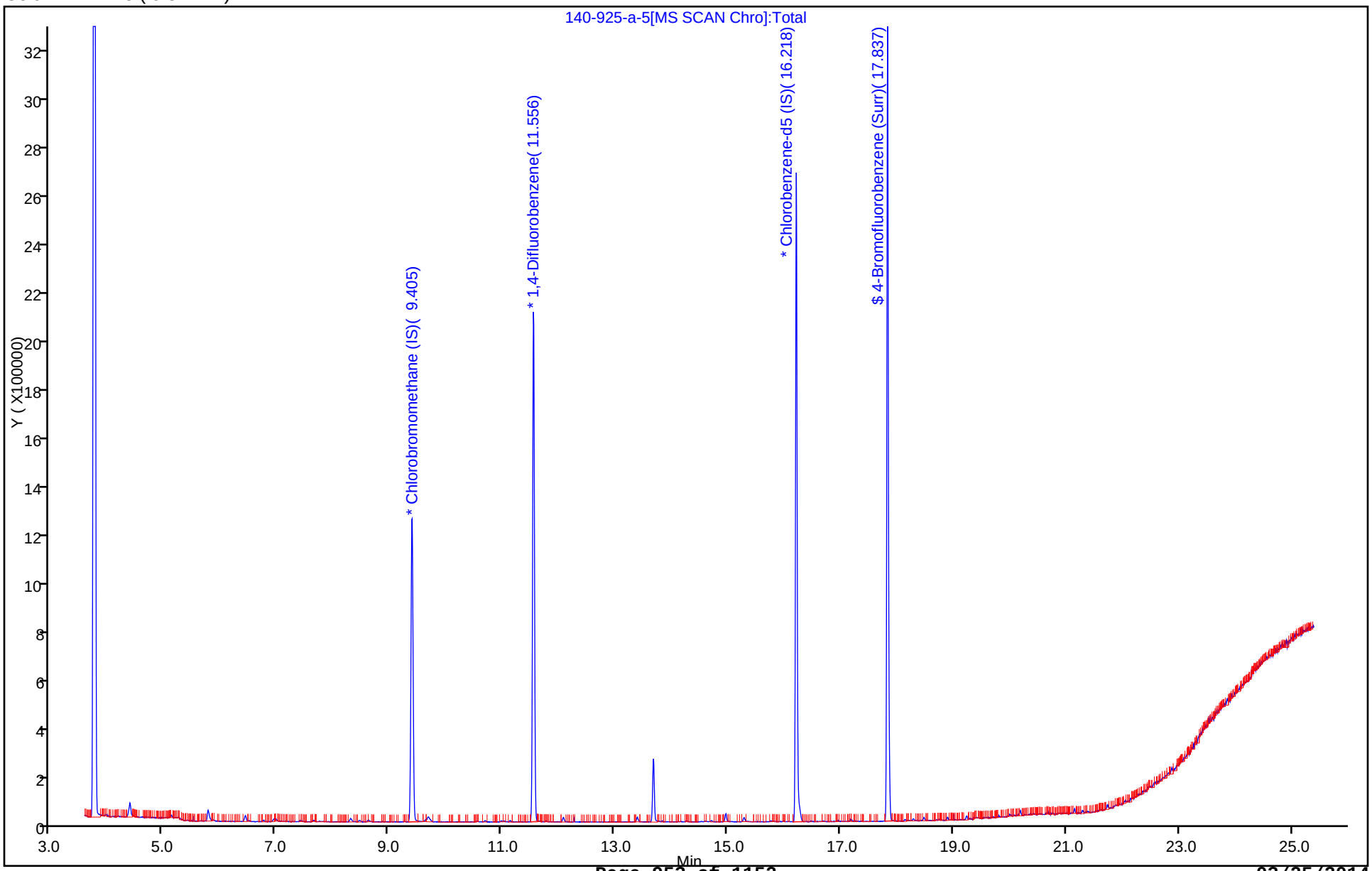
Report Date: 23-Feb-2014 13:42:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D

Injection Date:	22-Feb-2014 05:47:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5	Worklist Smp#:	17
Client ID:	10129				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 Lab Sample ID: 140-925-6

Matrix: Air Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D
Lims ID: 140-925-A-6 Lab Sample ID: 140-925-6
Client ID: 09523
Sample Type: Client
Inject. Date: 22-Feb-2014 06:44:30 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09523
Misc. Info.: J022114,TO15,,140-0000456-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 23-Feb-2014 13:42:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: barlozhetskayaa Date: 23-Feb-2014 13:42:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	390393	4.00	
* 2 1,4-Difluorobenzene	114	11.557	11.563	-0.006	94	1697205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	92	1375423	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1032684	3.76	
46 1,2-Dichloroethane	62	10.556	10.562	-0.006	75	13973	0.0713	
47 n-Butanol	31	10.981	10.960	0.021	65	2774	0.0451	
62 4-Methyl-2-pentanone (MIBK)	43	13.396	13.391	0.005	82	16426	0.0570	

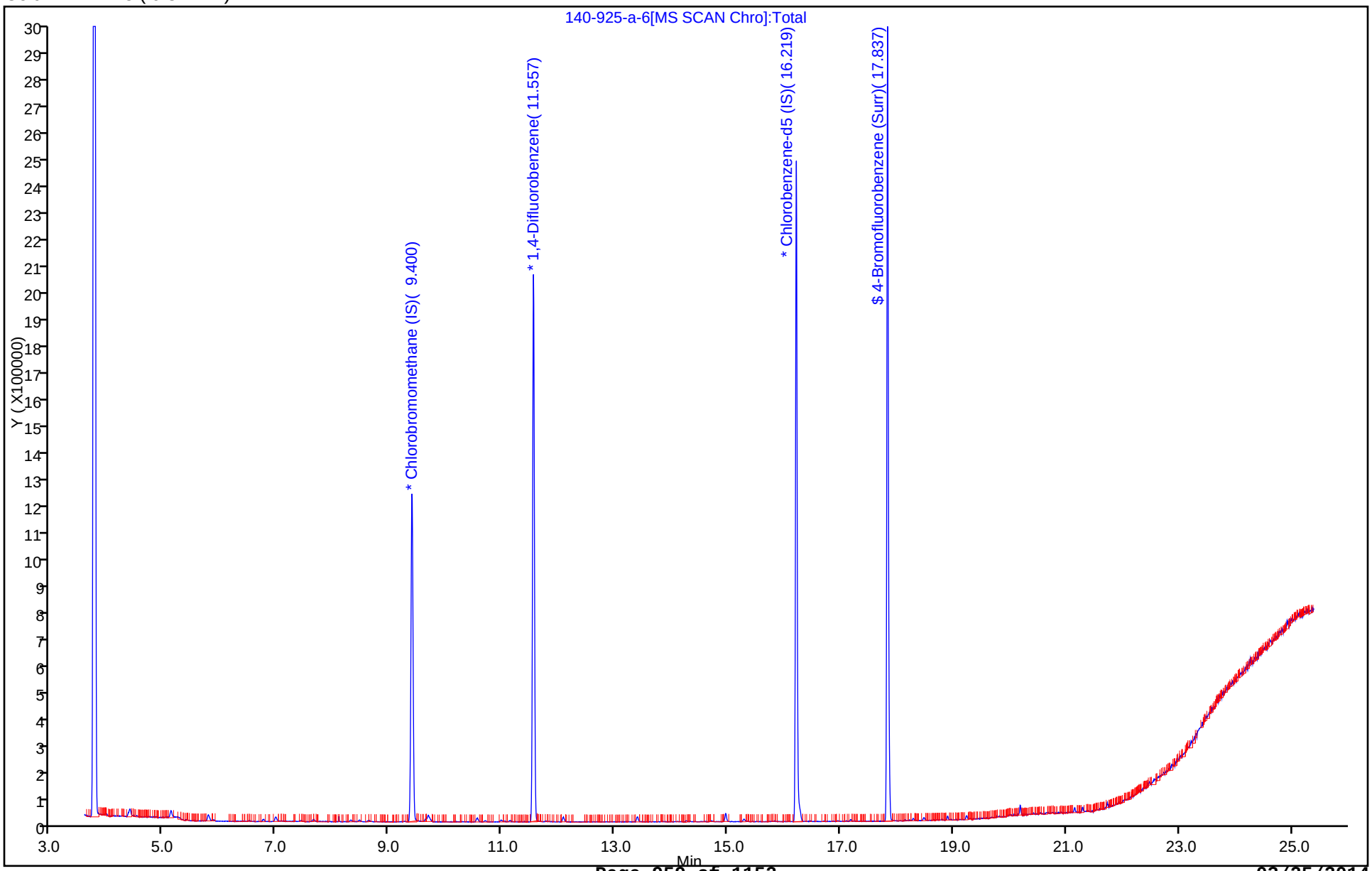
Report Date: 23-Feb-2014 13:42:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D

Injection Date:	22-Feb-2014 06:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-6	Lab Sample ID:	140-925-6	Worklist Smp#:	18
Client ID:	09523				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 | Lab Sample ID: 140-925-7

Matrix: Air | Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 | Lab Sample ID: 140-925-7

Matrix: Air | Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D				
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7		
Client ID:	11047				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 07:41:30	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11047				
Misc. Info.:	J022114,TO15,,140-0000456-019				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.404	9.406	-0.002	90	385860	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.563	-0.003	94	1670343	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.217	16.219	-0.002	92	1364203	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.838	-0.003	86	1052795	3.87	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.391	0.008	82	17122	0.0604	
65 Toluene	91	14.270	14.273	-0.003	81	21345	0.0651	

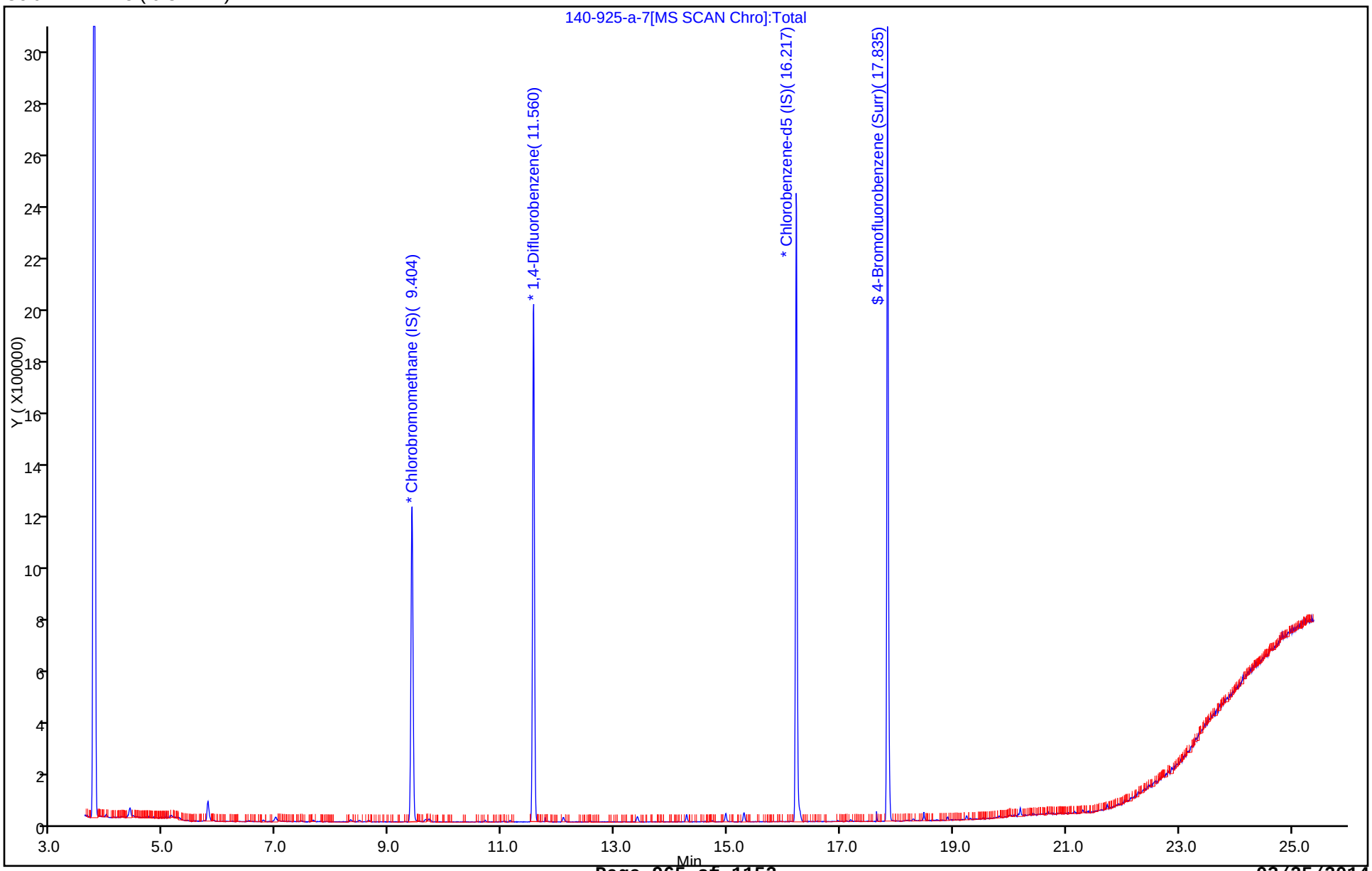
Report Date: 23-Feb-2014 13:42:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D

Injection Date:	22-Feb-2014 07:41:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7	Worklist Smp#:	19
Client ID:	11047				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D				
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9		
Client ID:	11044				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 16:31:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11044				
Misc. Info.:	E022414,TO155,,140-0000468-011				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:44:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:44:08		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	259377	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1288482	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	91	1122866	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	963749	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	5912	0.0387	

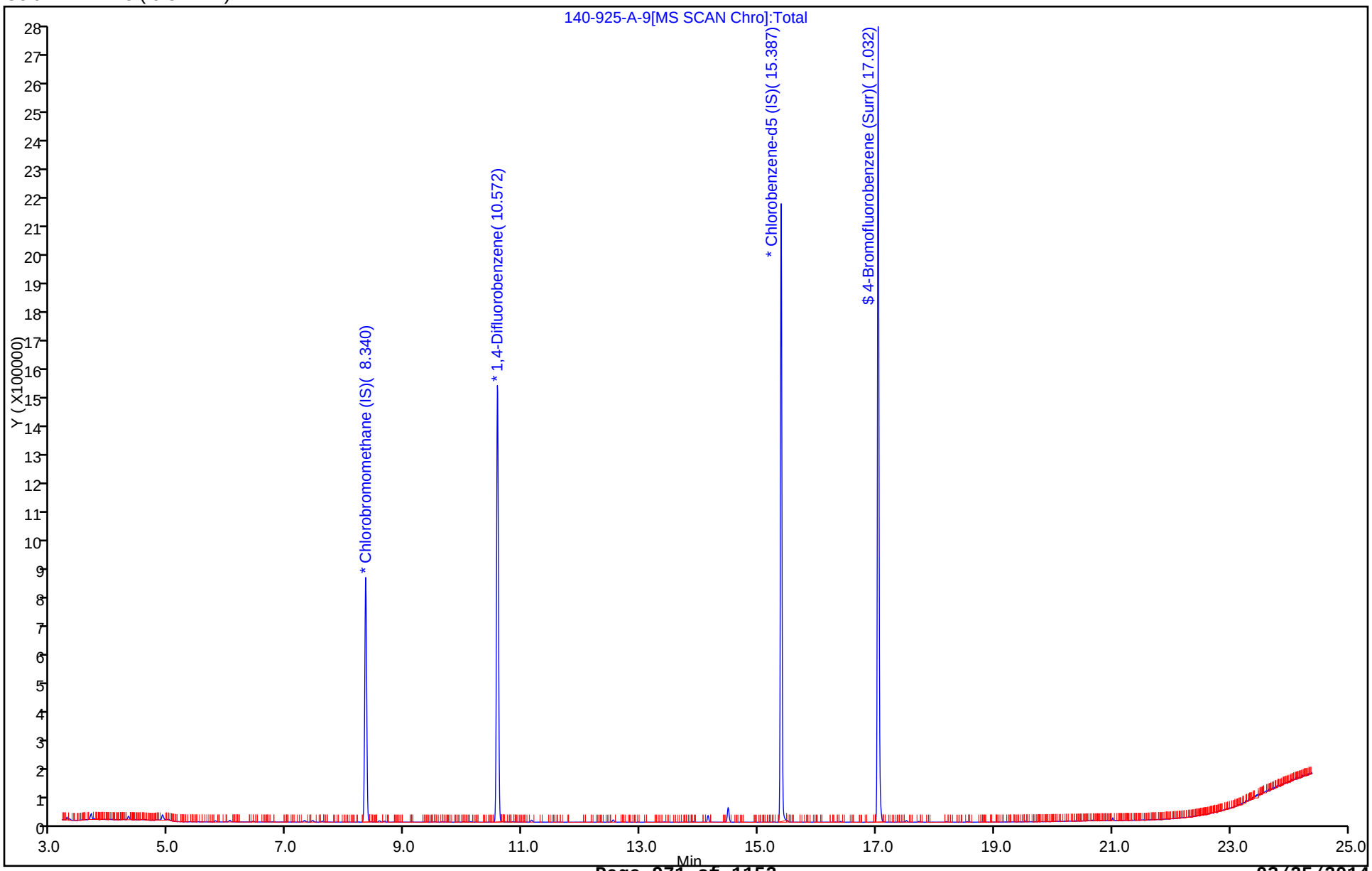
Report Date: 25-Feb-2014 08:44:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D

Injection Date:	24-Feb-2014 16:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9	Worklist Smp#:	11
Client ID:	11044				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 Lab Sample ID: 140-925-11

Matrix: Air Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D				
Lims ID:	140-925-A-11	Lab Sample ID:	140-925-11		
Client ID:	11040				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 18:02:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11040				
Misc. Info.:	E022414,TO155,,140-0000468-013				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:46:43	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:46:43		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	258218	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1302196	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1151791	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1004151	3.98	
7 Propene	41	3.314	3.314	0.0	89	3530	0.0543	
33 Carbon disulfide	76	5.945	5.951	-0.006	88	10822	0.0405	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	80	6774	0.0439	

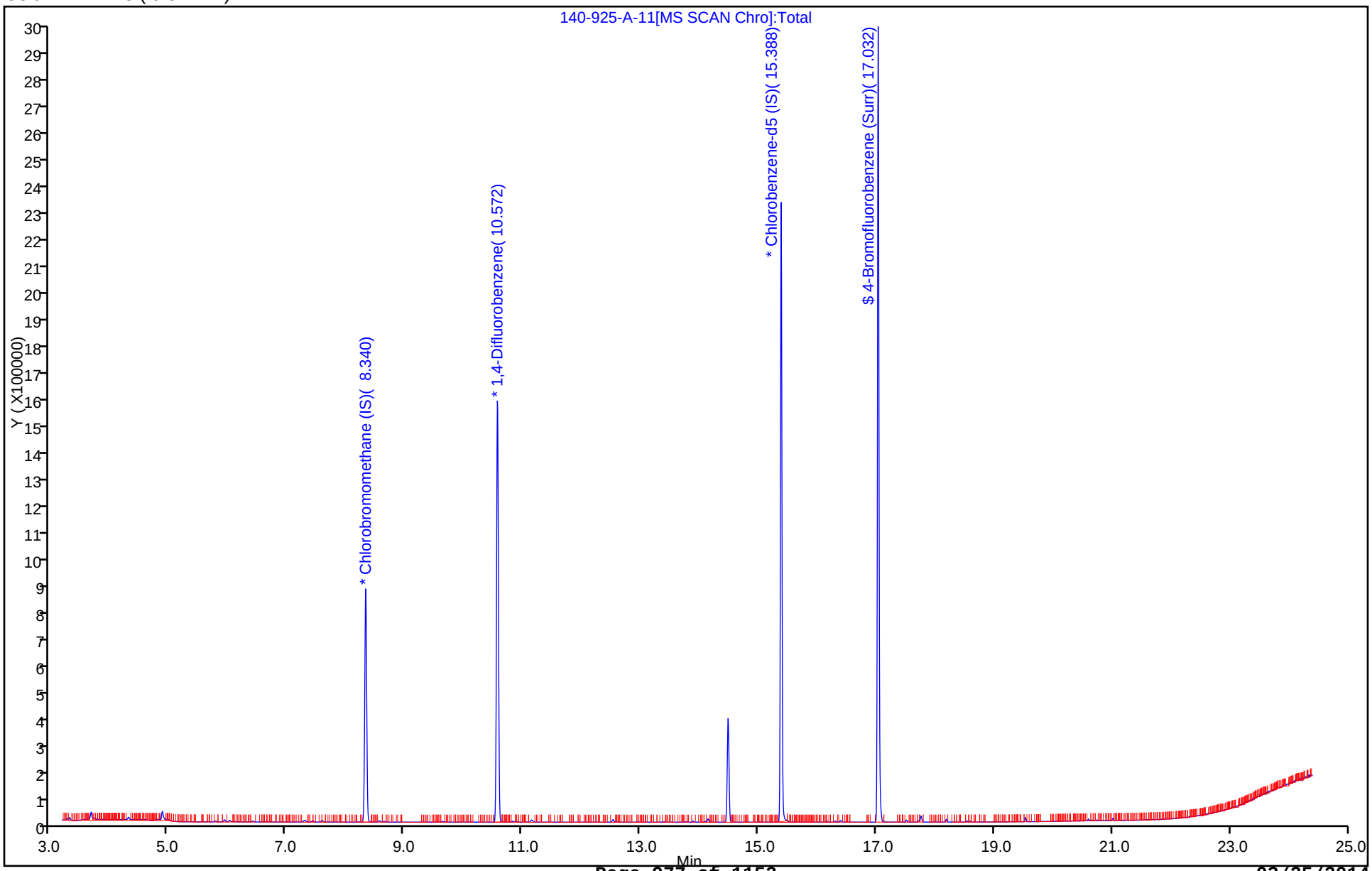
Report Date: 25-Feb-2014 08:46:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D

Injection Date:	24-Feb-2014 18:02:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-11	Lab Sample ID:	140-925-11	Worklist Smp#:	13
Client ID:	11040				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-929-1

SDG No.:

Client Sample ID: 10527 Lab Sample ID: 140-929-8

Matrix: Air Lab File ID: 140-929-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 01:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-929-1

SDG No.:

Client Sample ID: 10527 | Lab Sample ID: 140-929-8

Matrix: Air | Lab File ID: 140-929-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 01:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-929-1

SDG No.:

Client Sample ID: 10527 Lab Sample ID: 140-929-8

Matrix: Air Lab File ID: 140-929-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 01:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-929-1

SDG No.:

Client Sample ID: 10527 Lab Sample ID: 140-929-8

Matrix: Air Lab File ID: 140-929-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 01:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-929-a-8.D
Lims ID: 140-929-A-8 Lab Sample ID: 140-929-8
Client ID: 10527
Sample Type: Client
Inject. Date: 22-Feb-2014 01:13:30 ALS Bottle#: 7 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10527
Misc. Info.: J022114,TO15,,140-0000456-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 23-Feb-2014 13:39:32 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: barlozhetskayaa Date: 23-Feb-2014 13:39:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.402	9.406	-0.004	91	391620	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.563	-0.005	94	1689140	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	92	1385113	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.838	0.001	85	1059252	3.83	
33 Carbon disulfide	76	6.950	6.954	-0.004	96	10833	0.0255	
39 2-Butanone (MEK)	72	8.622	8.605	0.017	96	5134	0.1147	
47 n-Butanol	31	10.983	10.960	0.023	71	4151	0.0678	
69 2-Hexanone	58	14.715	14.703	0.012	71	4723	0.0451	
73 Tetrachloroethene	129	15.397	15.407	-0.010	69	2163	0.0175	

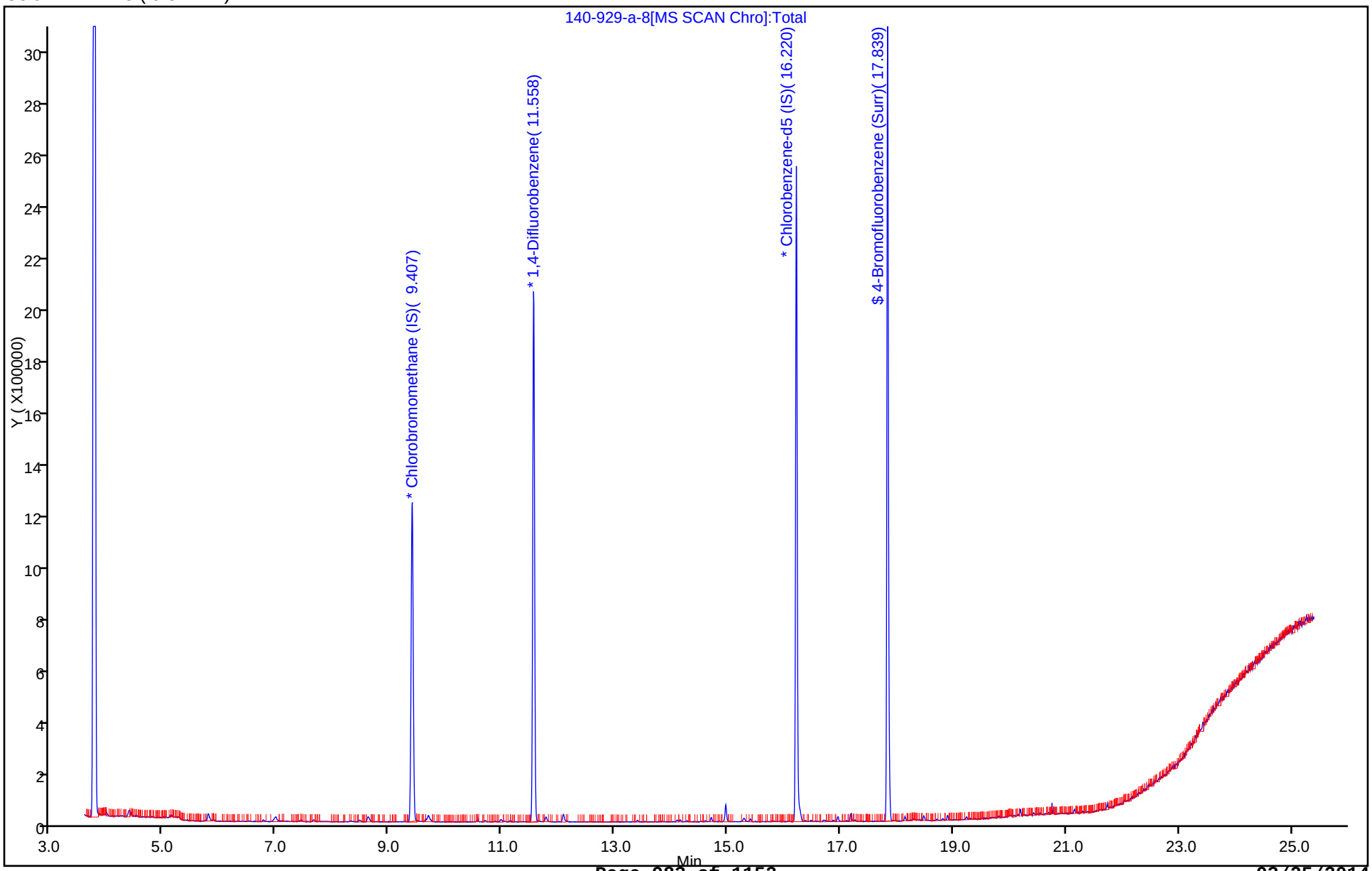
Report Date: 23-Feb-2014 13:39:33 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-929-a-8.D

Injection Date:	22-Feb-2014 01:13:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-929-A-8	Lab Sample ID:	140-929-8	Worklist Smp#:	12
Client ID:	10527				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 | Lab Sample ID: 140-935-1

Matrix: Air | Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 | Lab Sample ID: 140-935-1

Matrix: Air | Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 Lab Sample ID: 140-935-1

Matrix: Air Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 Lab Sample ID: 140-935-1

Matrix: Air Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D
Lims ID: 140-935-A-1 Lab Sample ID: 140-935-1
Client ID: 10967
Sample Type: Client
Inject. Date: 24-Feb-2014 11:45:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10967
Misc. Info.: E022414,TO155,,140-0000468-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:38:50 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	301761	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1556647	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	93	1352626	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1157772	3.91	
7 Propene	41	3.320	3.314	0.006	76	5200	0.0685	
14 Butane	43	3.778	3.778	0.0	88	9000	0.0624	
19 2-Methylbutane	43	4.544	4.544	0.0	70	2143	0.0203	
23 Acetone	58	4.894	4.883	0.011	96	35359	0.7736	
25 Pentane	72	4.970	4.970	0.0	82	646	0.0326	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	93	4553	0.0922	
40 Hexane	56	7.596	7.596	0.0	49	2010	0.0250	
53 Isooctane	57	10.783	10.793	-0.010	72	15783	0.0326	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	79	4982	0.0270	
70 n-Octane	85	14.104	14.104	0.0	67	2144	0.0166	

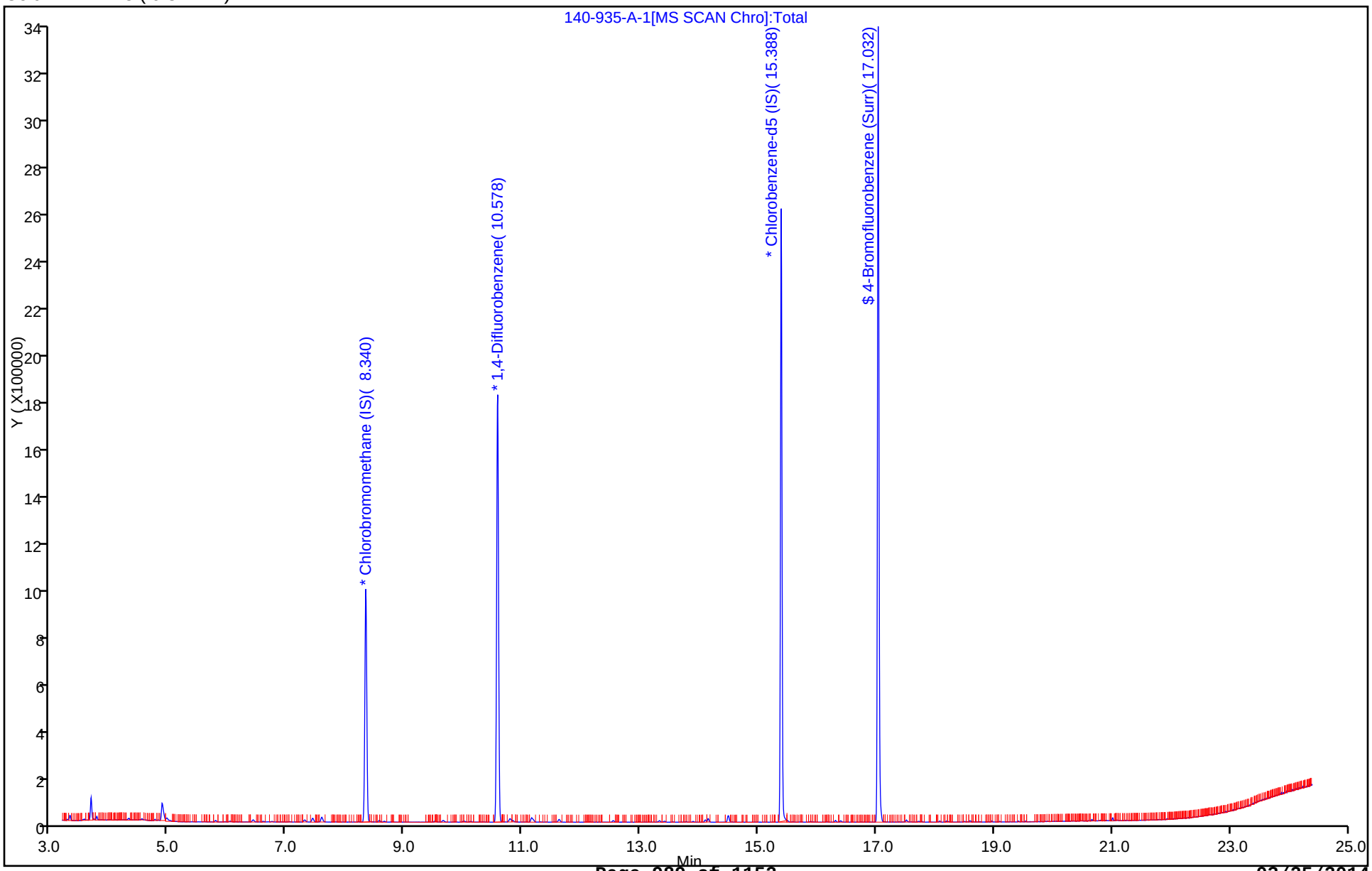
Report Date: 25-Feb-2014 08:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D

Injection Date:	24-Feb-2014 11:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-1	Lab Sample ID:	140-935-1	Worklist Smp#:	5
Client ID:	10967				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 | Lab Sample ID: 140-935-4

Matrix: Air | Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 | Lab Sample ID: 140-935-4

Matrix: Air | Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 Lab Sample ID: 140-935-4

Matrix: Air Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 Lab Sample ID: 140-935-4

Matrix: Air Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D				
Lims ID:	140-935-A-4	Lab Sample ID:	140-935-4		
Client ID:	10188				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 14:03:30	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10188				
Misc. Info.:	E022414,TO155,,140-0000468-008				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:38:50	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:40:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	268913	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1351618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1197176	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1046768	3.99	
7 Propene	41	3.319	3.314	0.005	85	2145	0.0317	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	82	4043	0.0252	

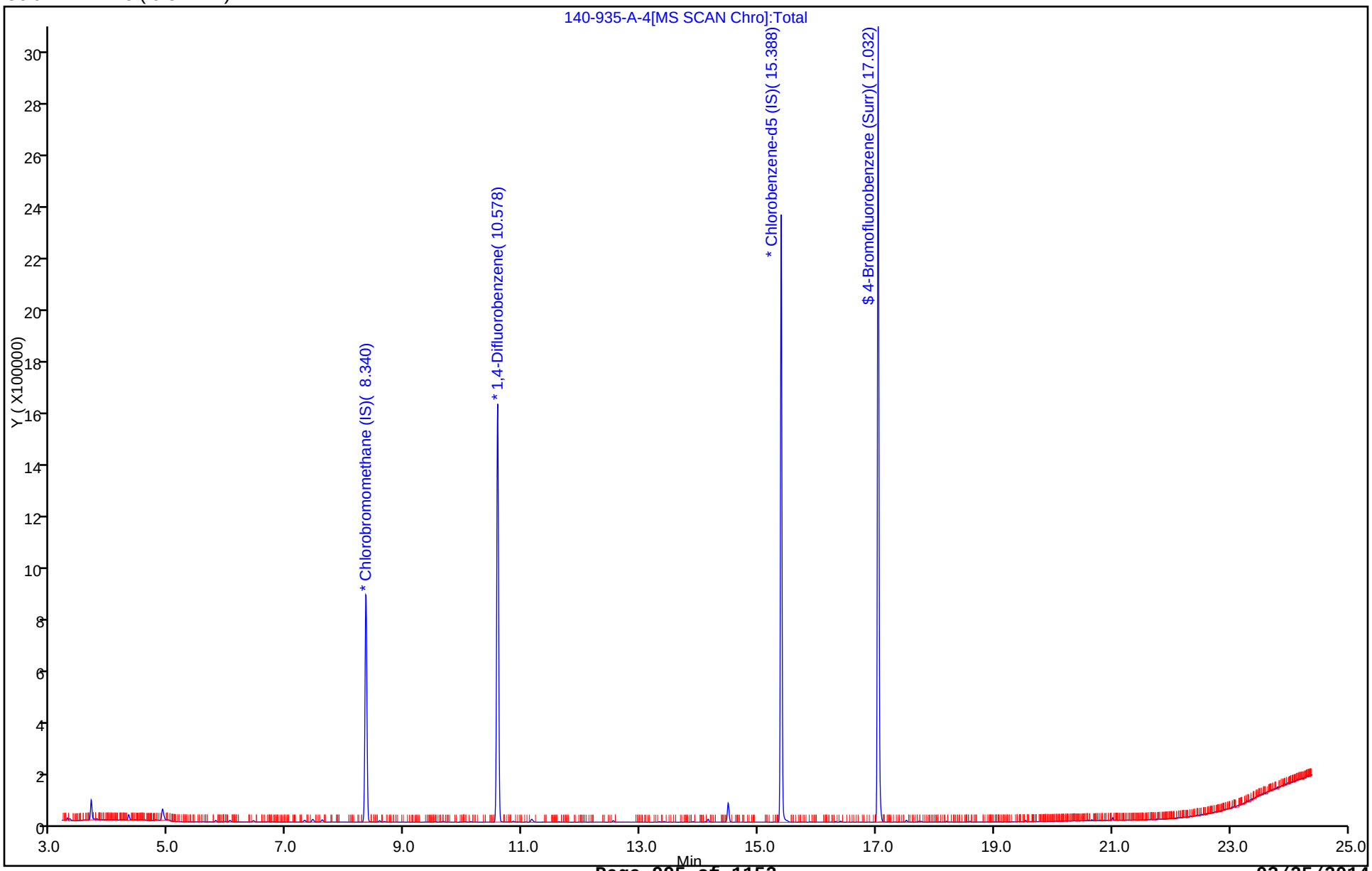
Report Date: 25-Feb-2014 08:40:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D

Injection Date:	24-Feb-2014 14:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-4	Lab Sample ID:	140-935-4	Worklist Smp#:	8
Client ID:	10188				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 Lab Sample ID: 140-935-6

Matrix: Air Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 | Lab Sample ID: 140-935-6

Matrix: Air | Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 Lab Sample ID: 140-935-6

Matrix: Air Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 Lab Sample ID: 140-935-6

Matrix: Air Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D
Lims ID: 140-935-A-6 Lab Sample ID: 140-935-6
Client ID: 10401
Sample Type: Client
Inject. Date: 24-Feb-2014 15:34:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10401
Misc. Info.: E022414,TO155,,140-0000468-010
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:41:49 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:41:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	270190	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1379161	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1193335	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1038922	3.98	
7 Propene	41	3.319	3.314	0.005	77	4590	0.0675	
14 Butane	43	3.778	3.778	0.0	80	8380	0.0649	
19 2-Methylbutane	43	4.549	4.544	0.005	67	2389	0.0252	
23 Acetone	58	4.889	4.883	0.006	98	41196	1.01	
25 Pentane	72	4.964	4.970	-0.006	90	627	0.0353	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	95	5392	0.1219	
40 Hexane	56	7.590	7.596	-0.006	46	1928	0.0268	
54 n-Heptane	71	11.187	11.187	0.0	50	2531	0.0241	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	84	6326	0.0387	
70 n-Octane	85	14.099	14.104	-0.005	67	2149	0.0189	

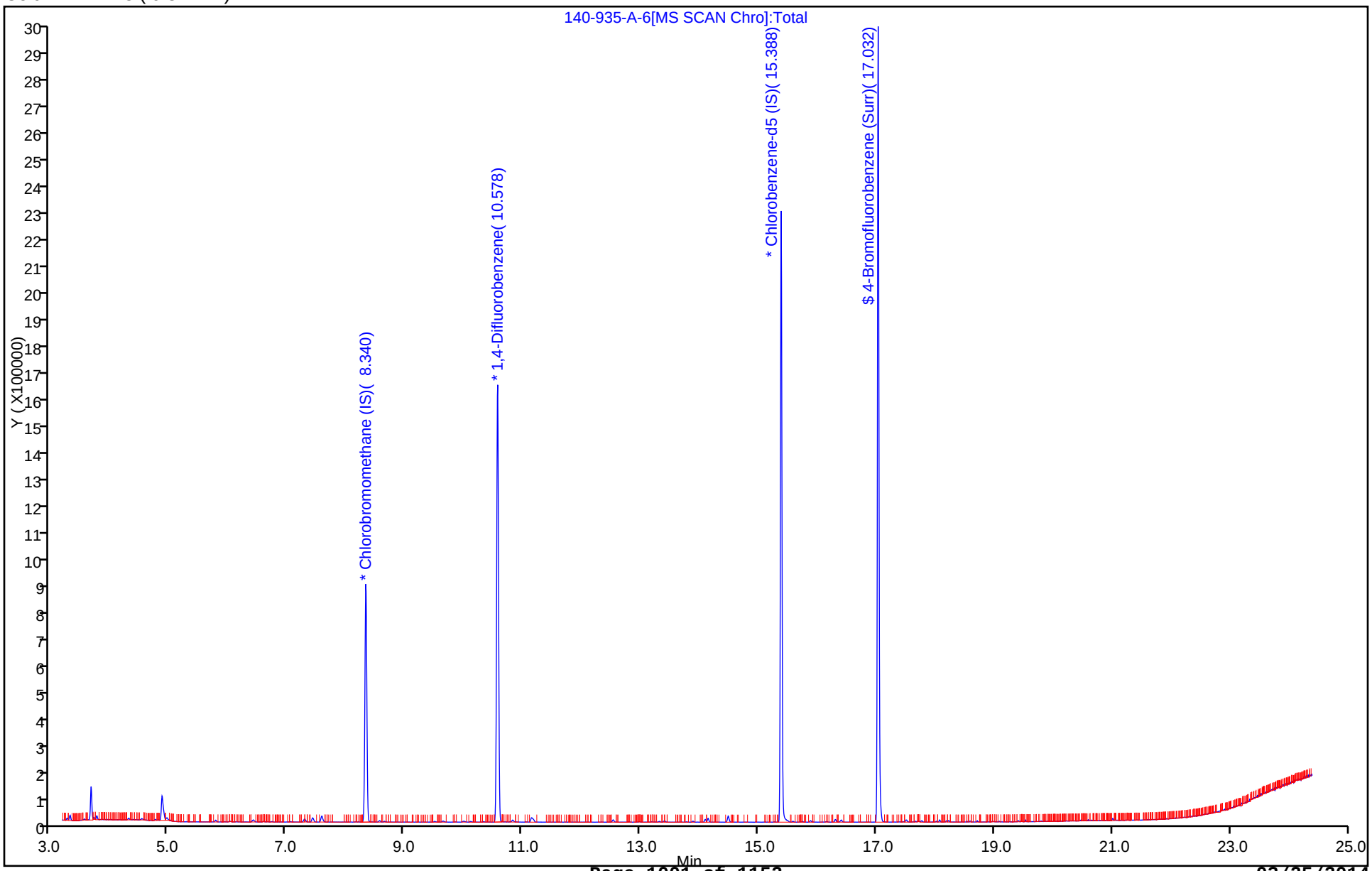
Report Date: 25-Feb-2014 08:41:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D

Injection Date:	24-Feb-2014 15:34:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-6	Lab Sample ID:	140-935-6	Worklist Smp#:	10
Client ID:	10401				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 Lab Sample ID: 140-967-1

Matrix: Air Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 04-Mar-2014 11:47:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-1.D				
Lims ID:	140-967-A-1	Lab Sample ID:	140-967-1		
Client ID:	10386				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 14:18:30	ALS Bottle#:	10	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10386				
Misc. Info.:	E030314,TO155,,140-0000488-003				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:19:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: barlozhetskayaa		Date:	04-Mar-2014 11:47:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	78	163566	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	832759	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	88	733285	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	90	595067	3.71	
7 Propene	41	3.319	3.314	0.005	89	1602	0.0389	
19 2-Methylbutane	43	4.544	4.544	0.0	31	1154	0.0201	
31 Methylene Chloride	84	5.795	5.795	0.0	60	3405	0.0728	
33 Carbon disulfide	76	5.946	5.946	0.0	87	14599	0.0862	
40 Hexane	56	7.590	7.590	0.0	45	840	0.0193	
47 n-Butanol	31	9.979	9.958	0.021	62	837	0.0539	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	60	2530	0.0256	
73 Tetrachloroethene	129	14.552	14.557	-0.005	68	2195	0.0262	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	56	4154	0.0289	
112 Naphthalene	128	20.796	20.796	0.0	85	5963	0.0366	

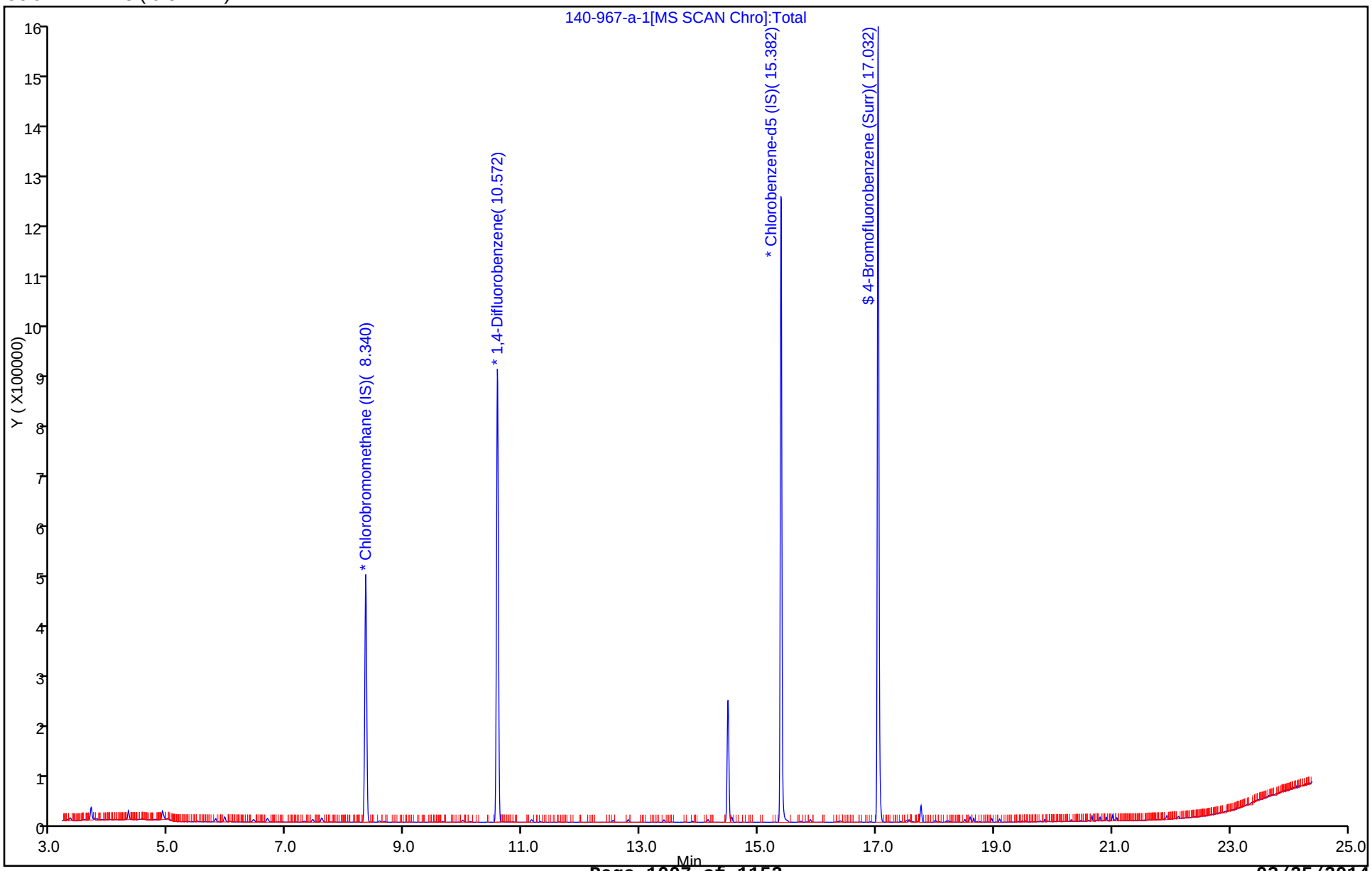
Report Date: 04-Mar-2014 11:47:59 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-1.D

Injection Date:	03-Mar-2014 14:18:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-967-A-1	Lab Sample ID:	140-967-1	Worklist Smp#:	3
Client ID:	10386				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 Lab Sample ID: 140-967-2

Matrix: Air Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 | Lab Sample ID: 140-967-2

Matrix: Air | Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 | Lab Sample ID: 140-967-2

Matrix: Air | Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 Lab Sample ID: 140-967-2

Matrix: Air Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-2.D
Lims ID: 140-967-A-2 Lab Sample ID: 140-967-2
Client ID: 10690
Sample Type: Client
Inject. Date: 03-Mar-2014 15:03:30 ALS Bottle#: 11 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10690
Misc. Info.: E030314,TO155,,140-0000488-004
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 09:02:57 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 16:05:12

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	155933	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	755622	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	88	663295	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	90	534234	3.68	
	62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	81	8301	0.0927	

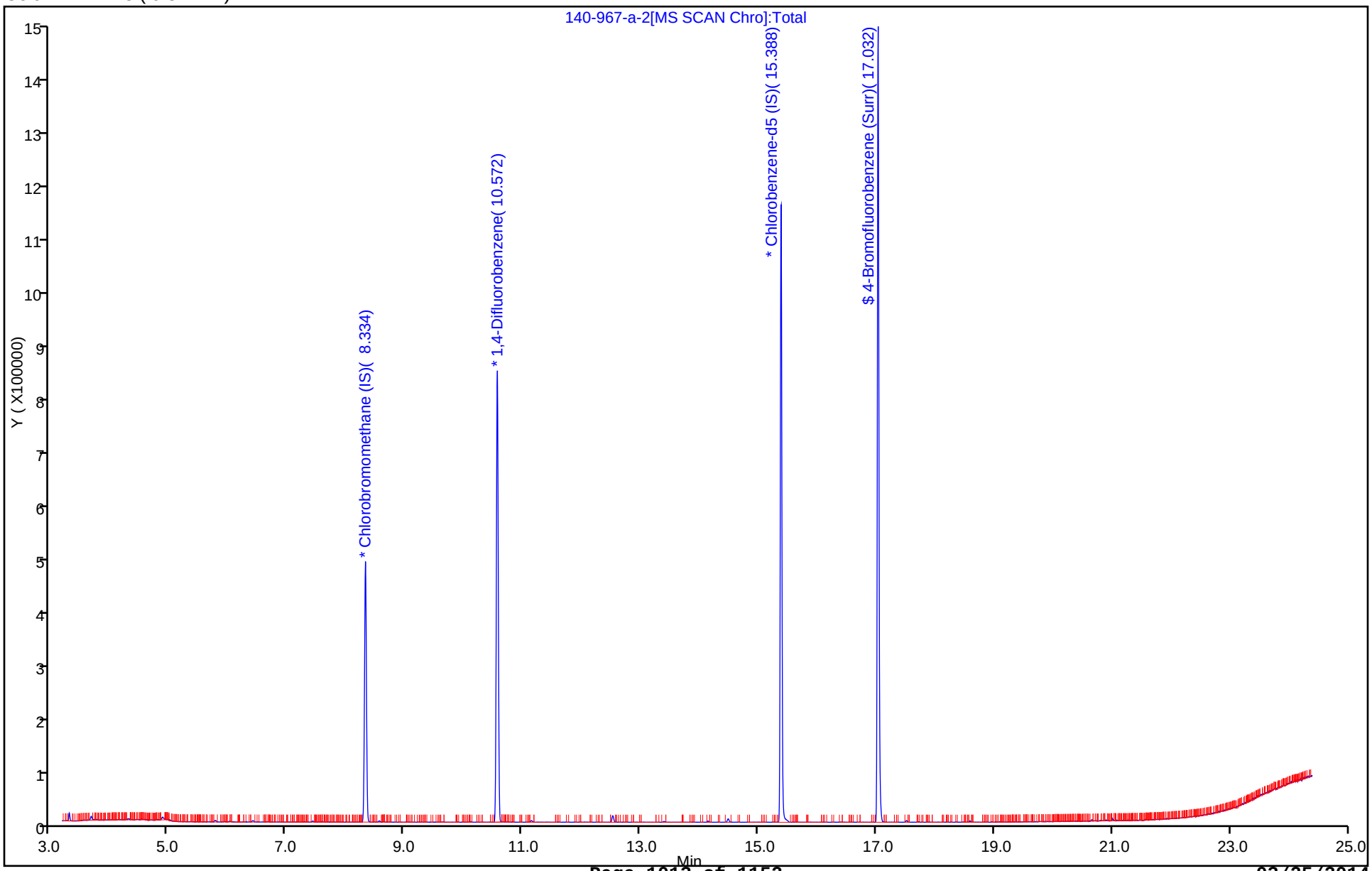
Report Date: 04-Mar-2014 09:06:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-2.D

Injection Date:	03-Mar-2014 15:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-967-A-2	Lab Sample ID:	140-967-2	Worklist Smp#:	4
Client ID:	10690				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 | Lab Sample ID: 140-967-5

Matrix: Air | Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 | Lab Sample ID: 140-967-5

Matrix: Air | Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 | Lab Sample ID: 140-967-5

Matrix: Air | Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 Lab Sample ID: 140-967-5

Matrix: Air Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-5.D				
Lims ID:	140-967-A-5	Lab Sample ID:	140-967-5		
Client ID:	09605				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 00:47:30	ALS Bottle#:	8	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09605				
Misc. Info.:	E030314,TO155,,140-0000488-016				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:08:57	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:08:57		

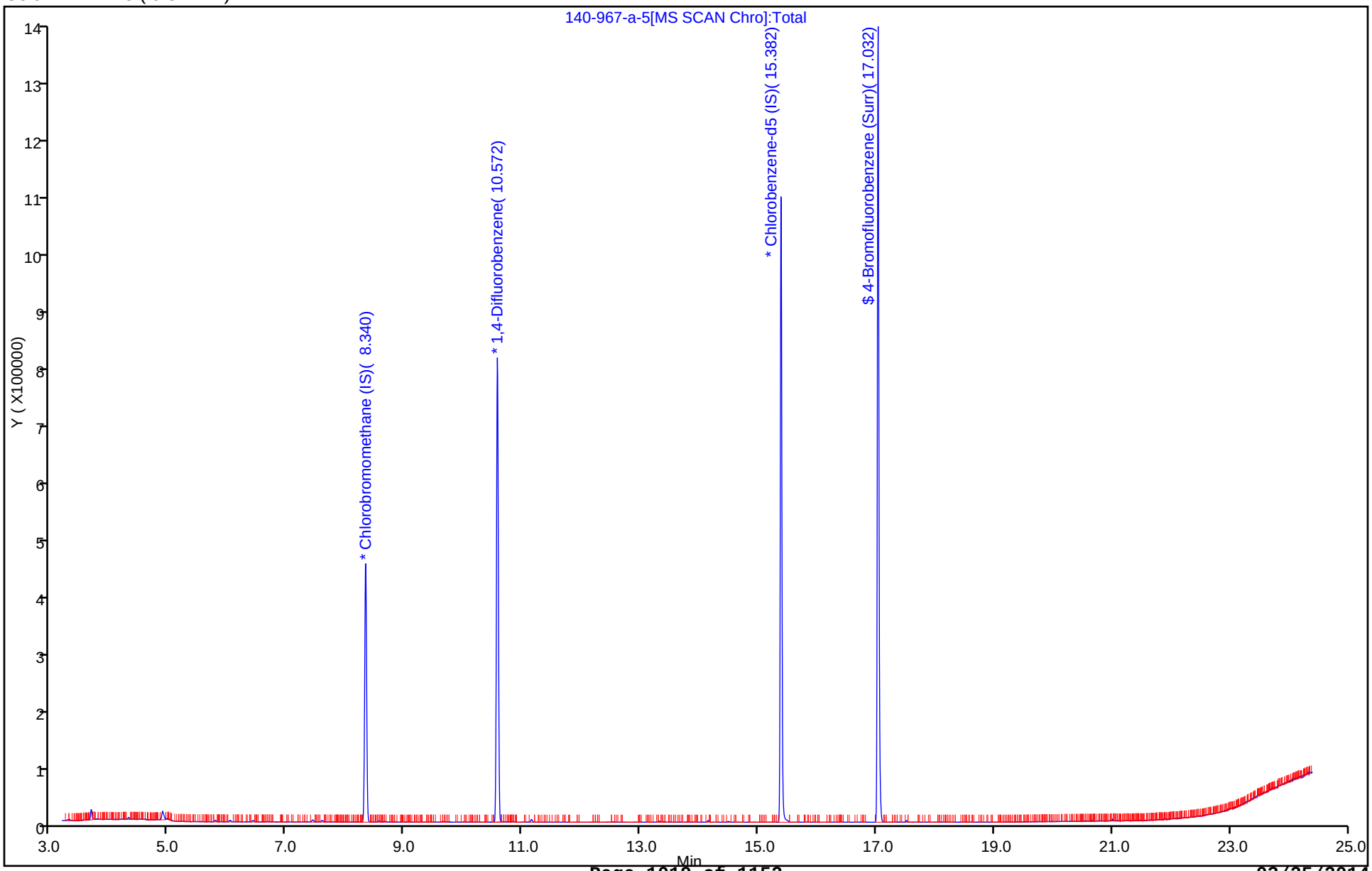
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	141938	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	694911	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	605164	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	89	498040	3.76	

Report Date: 04-Mar-2014 10:08:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-5.D				
Injection Date:	04-Mar-2014 00:47:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-5	Lab Sample ID:	140-967-5	Worklist Smp#:	16
Client ID:	09605				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 Lab Sample ID: 140-967-6

Matrix: Air Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-6.D
Lims ID: 140-967-A-6 Lab Sample ID: 140-967-6
Client ID: 09977
Sample Type: Client
Inject. Date: 04-Mar-2014 01:31:30 ALS Bottle#: 9 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09977
Misc. Info.: E030314,TO155,,140-0000488-017
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:09:16 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:09:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	145093	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	741807	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	641625	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	527945	3.76	

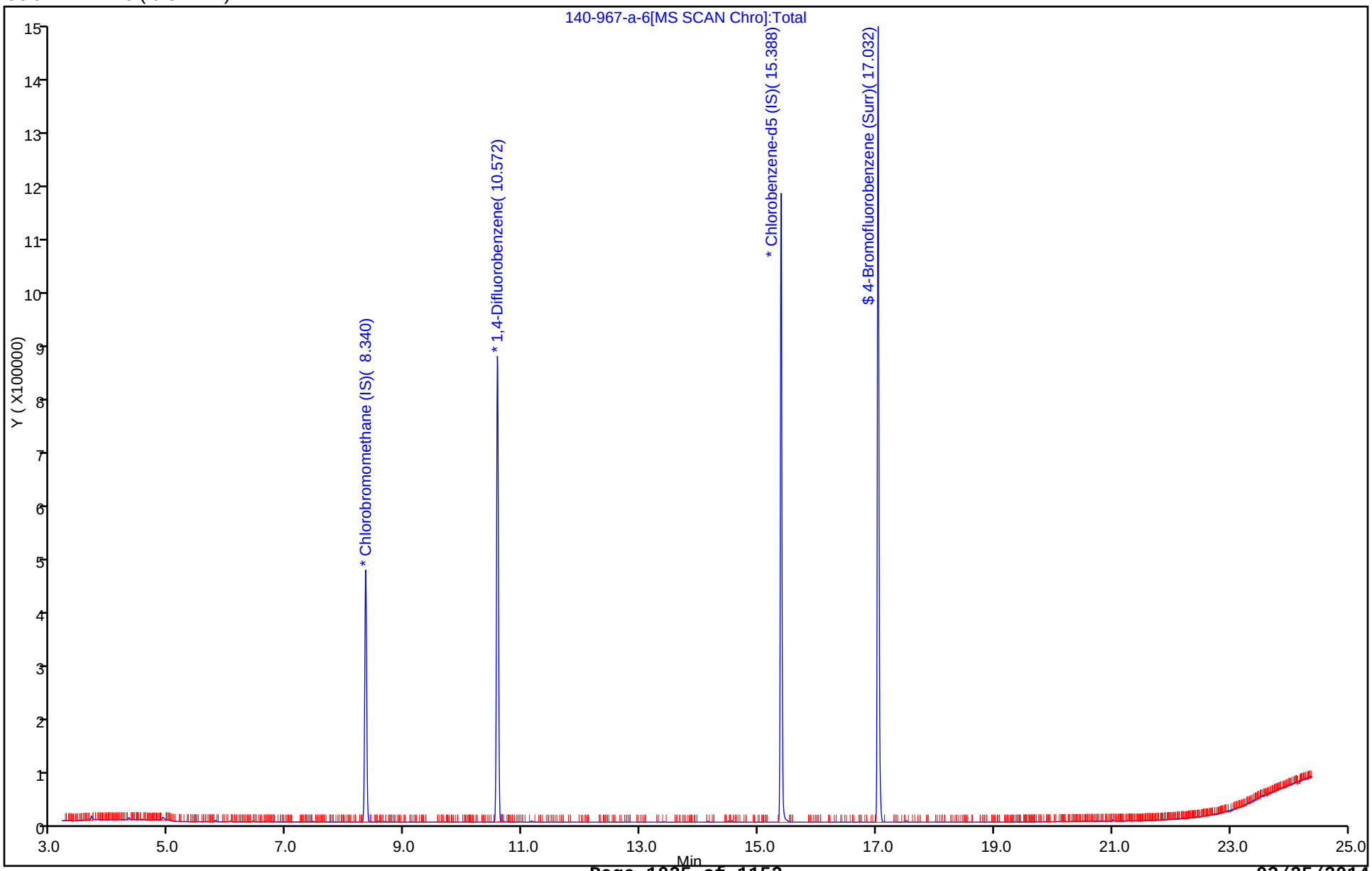
Report Date: 04-Mar-2014 10:09:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-6.D

Injection Date:	04-Mar-2014 01:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-6	Lab Sample ID:	140-967-6	Worklist Smp#:	17
Client ID:	09977				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 | Lab Sample ID: 140-967-8

Matrix: Air | Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 | Lab Sample ID: 140-967-8

Matrix: Air | Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 Lab Sample ID: 140-967-8

Matrix: Air Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 Lab Sample ID: 140-967-8

Matrix: Air Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-8.D
Lims ID: 140-967-A-8 Lab Sample ID: 140-967-8
Client ID: 10849
Sample Type: Client
Inject. Date: 04-Mar-2014 03:01:30 ALS Bottle#: 11 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10849
Misc. Info.: E030314,TO155,,140-0000488-019
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:10:25 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:10:25

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	156144	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	783307	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	692874	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	576531	3.80	

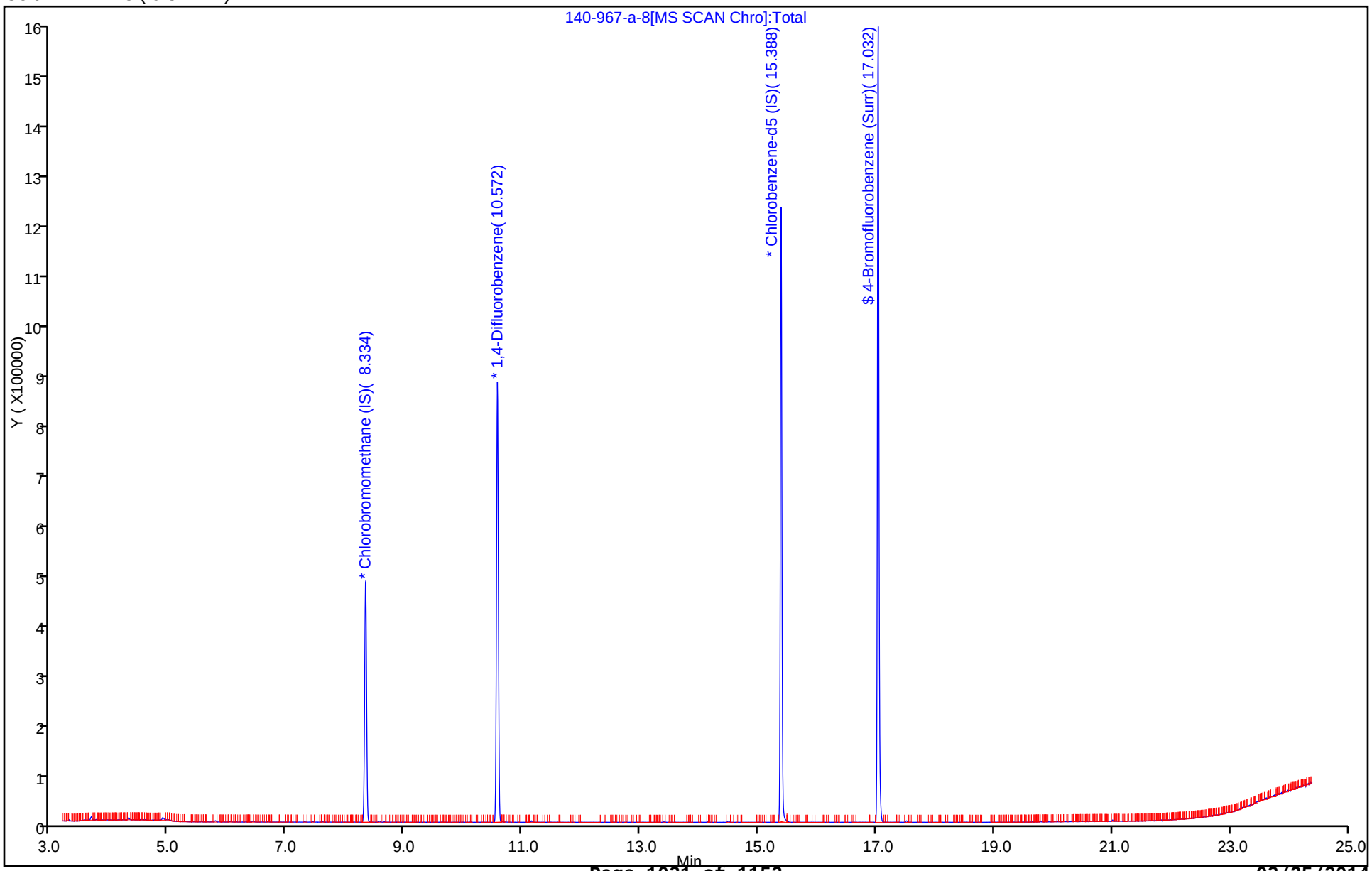
Report Date: 04-Mar-2014 10:10:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-8.D

Injection Date:	04-Mar-2014 03:01:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-8	Lab Sample ID:	140-967-8	Worklist Smp#:	19
Client ID:	10849				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-967-9

Matrix: Air | Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-967-9

Matrix: Air | Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-967-9

Matrix: Air | Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-967-9

Matrix: Air Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-9.D				
Lims ID:	140-967-A-9	Lab Sample ID:	140-967-9		
Client ID:	10206				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 03:45:30	ALS Bottle#:	12	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10206				
Misc. Info.:	E030314,TO155,,140-0000488-020				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:10:48	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:10:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	128936	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	612243	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	532580	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	448184	3.84	

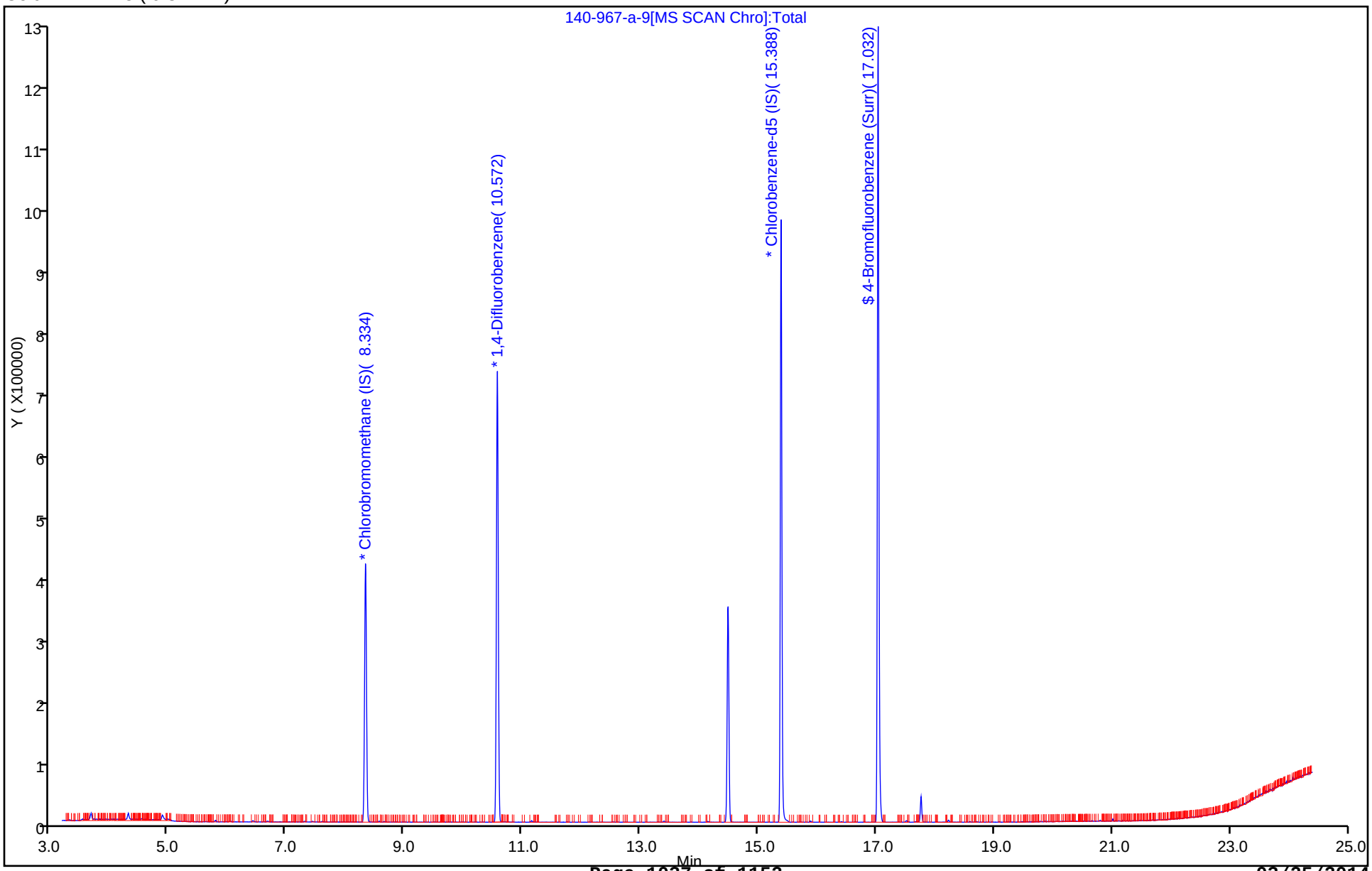
Report Date: 04-Mar-2014 10:10:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-9.D

Injection Date:	04-Mar-2014 03:45:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-9	Lab Sample ID:	140-967-9	Worklist Smp#:	20
Client ID:	10206				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 | Lab Sample ID: 140-967-11

Matrix: Air | Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 | Lab Sample ID: 140-967-11

Matrix: Air | Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 Lab Sample ID: 140-967-11

Matrix: Air Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 Lab Sample ID: 140-967-11

Matrix: Air Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-11.D				
Lims ID:	140-967-A-11	Lab Sample ID:	140-967-11		
Client ID:	10733				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 05:14:30	ALS Bottle#:	14	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10733				
Misc. Info.:	E030314,TO155,,140-0000488-022				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:18:35	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:18:35		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	128551	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	640157	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	89	557038	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	458824	3.76	

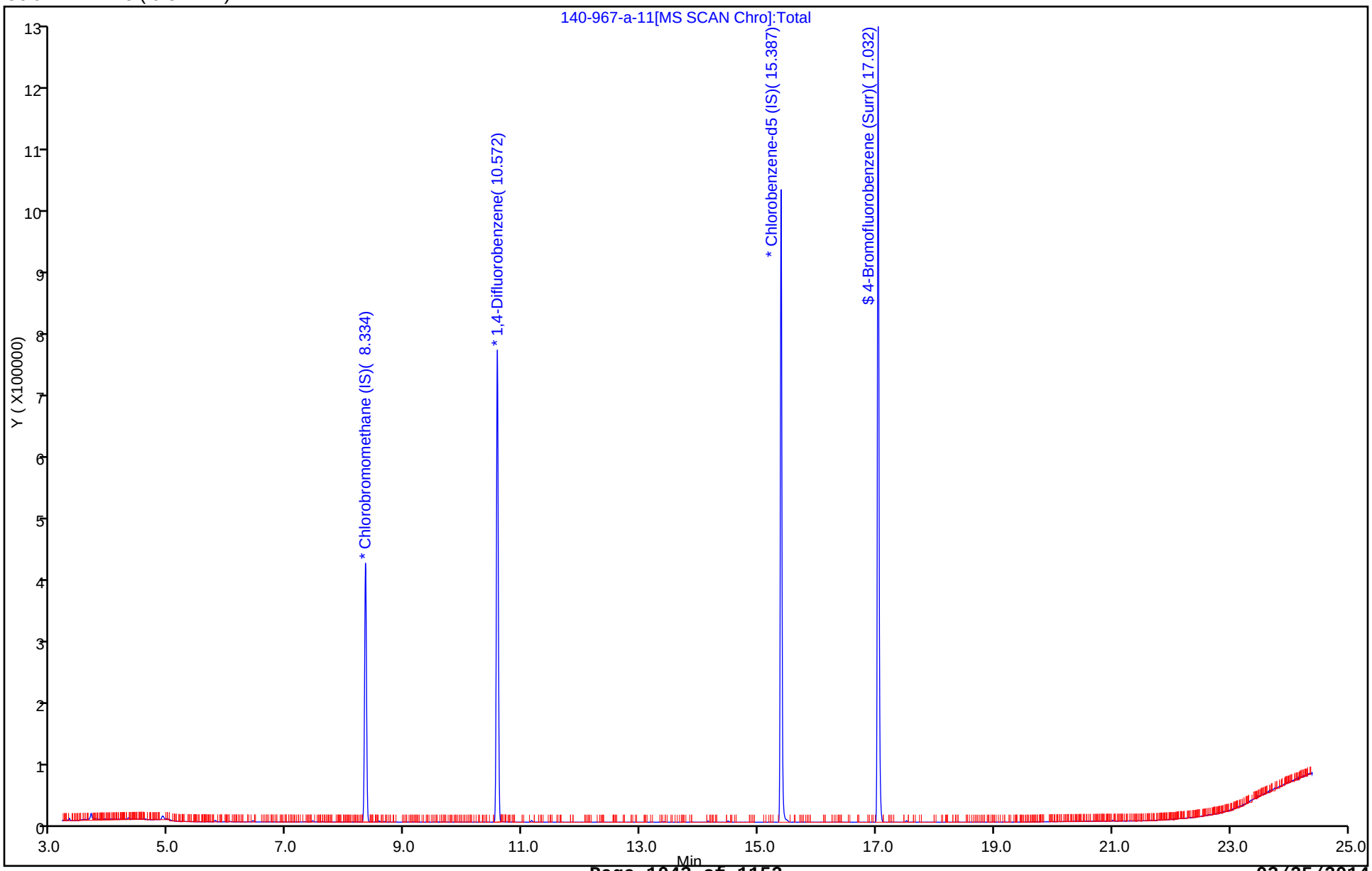
Report Date: 04-Mar-2014 10:18:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-11.D

Injection Date:	04-Mar-2014 05:14:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-11	Lab Sample ID:	140-967-11	Worklist Smp#:	22
Client ID:	10733				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 Lab Sample ID: 140-967-12

Matrix: Air Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-12.D
Lims ID: 140-967-A-12 Lab Sample ID: 140-967-12
Client ID: 10708
Sample Type: Client
Inject. Date: 04-Mar-2014 06:00:30 ALS Bottle#: 15 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10708
Misc. Info.: E030314,TO155,,140-0000488-023
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:18:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:18:52

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	134120	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	682612	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	89	596163	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	508398	3.89	

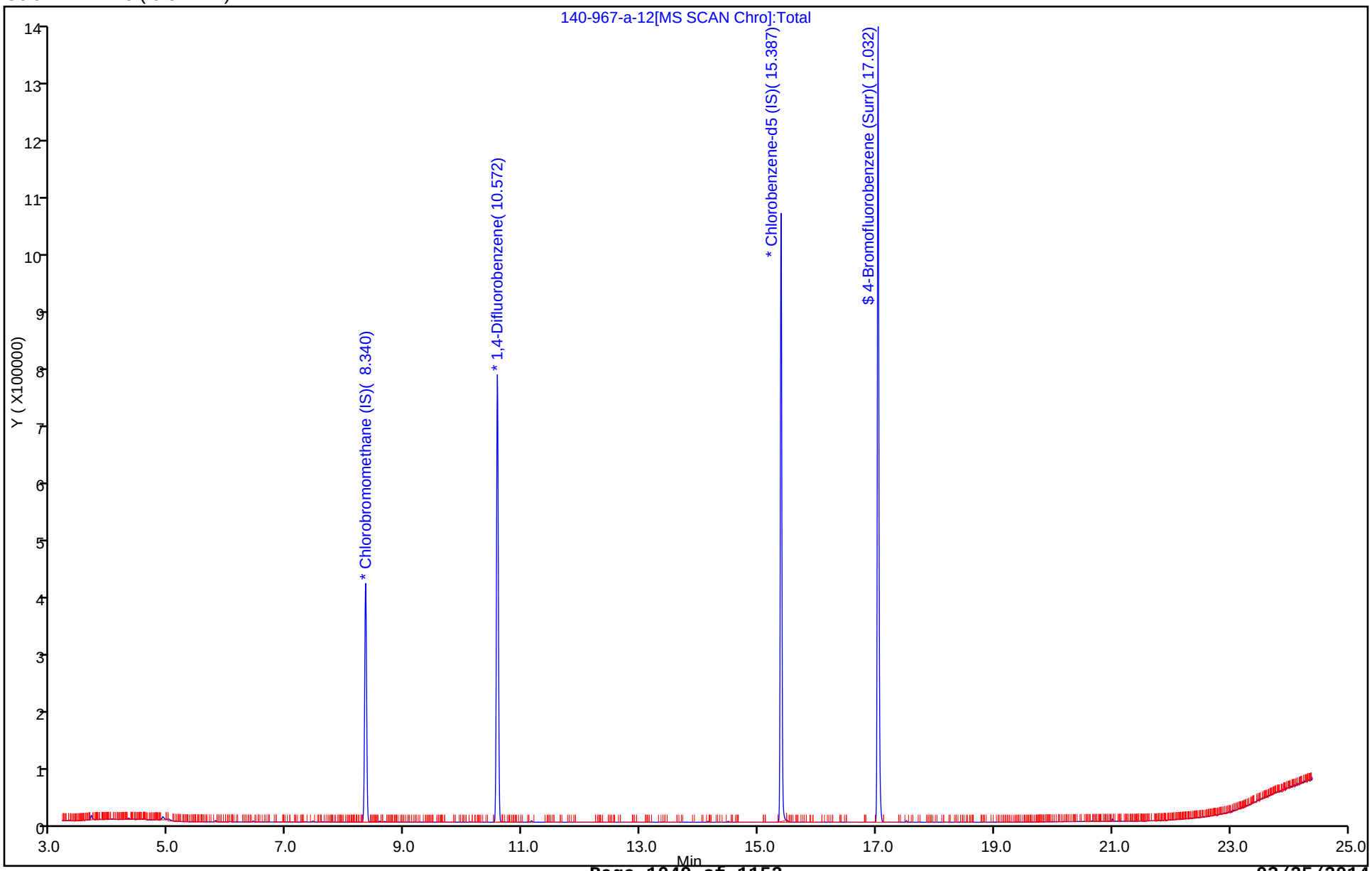
Report Date: 04-Mar-2014 10:18:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-12.D

Injection Date:	04-Mar-2014 06:00:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-12	Lab Sample ID:	140-967-12	Worklist Smp#:	23
Client ID:	10708				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 | Lab Sample ID: 140-967-13

Matrix: Air | Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 | Lab Sample ID: 140-967-13

Matrix: Air | Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 Lab Sample ID: 140-967-13

Matrix: Air Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 Lab Sample ID: 140-967-13

Matrix: Air Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-13.D				
Lims ID:	140-967-A-13	Lab Sample ID:	140-967-13		
Client ID:	10212				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 08:02:30	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10212				
Misc. Info.:	G030314,TO15,140-0000487-020				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:47:57	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:47:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	945998	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4212412	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2487645	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	96	1087305	3.30	

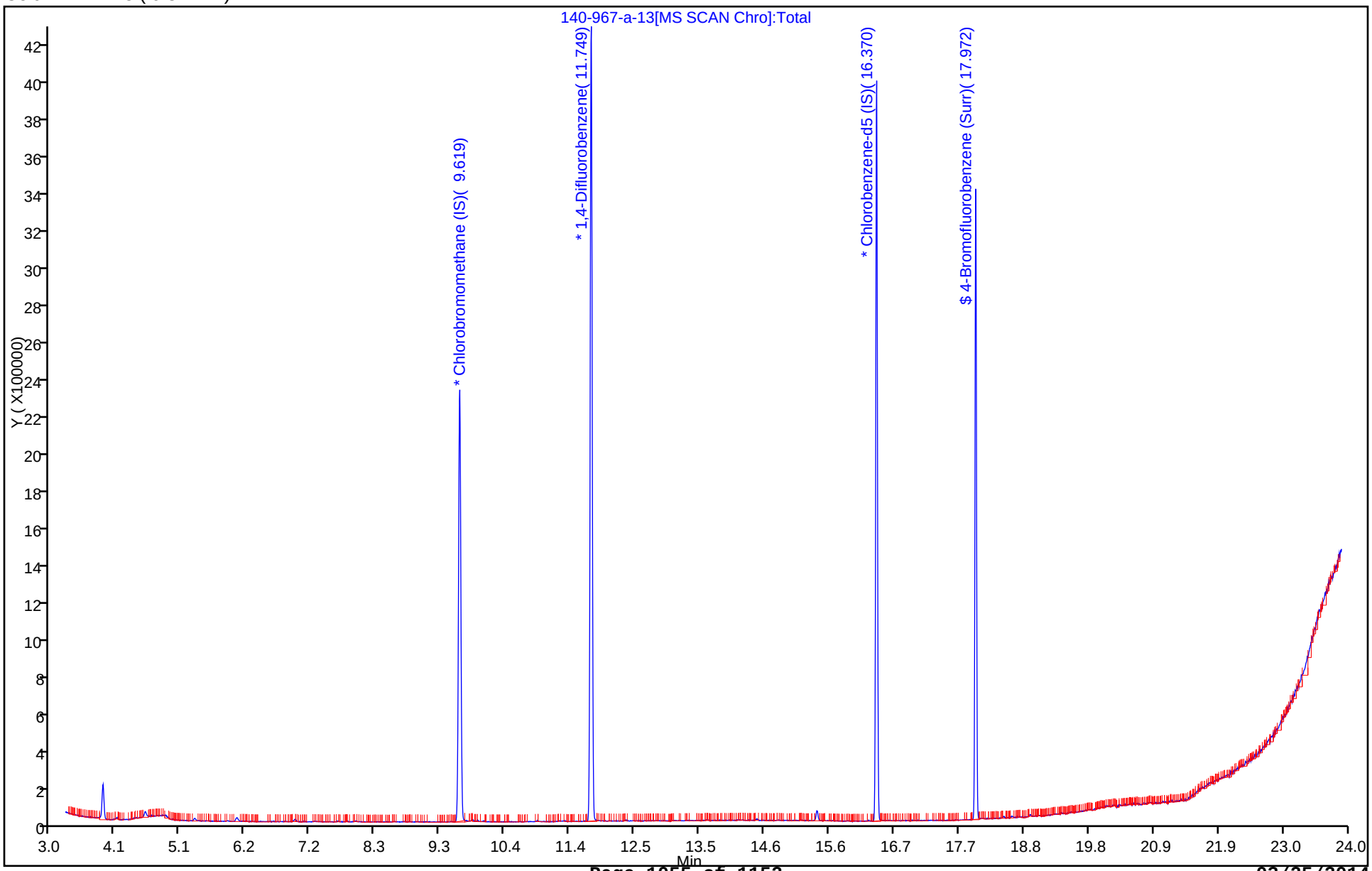
Report Date: 04-Mar-2014 08:47:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-13.D

Injection Date:	04-Mar-2014 08:02:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-967-A-13	Lab Sample ID:	140-967-13	Worklist Smp#:	20
Client ID:	10212				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 | Lab Sample ID: 140-967-14

Matrix: Air | Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 | Lab Sample ID: 140-967-14

Matrix: Air | Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 | Lab Sample ID: 140-967-14

Matrix: Air | Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 Lab Sample ID: 140-967-14

Matrix: Air Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-14.D
Lims ID: 140-967-A-14 Lab Sample ID: 140-967-14
Client ID: 10238
Sample Type: Client
Inject. Date: 04-Mar-2014 08:52:30 ALS Bottle#: 2 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10238
Misc. Info.: G030314,TO15,140-0000487-021
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:11:49 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:11:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.635	9.641	-0.006	75	936866	4.00	
*	2 1,4-Difluorobenzene	114	11.755	11.760	-0.005	94	4095402	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2370131	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1049206	3.34	

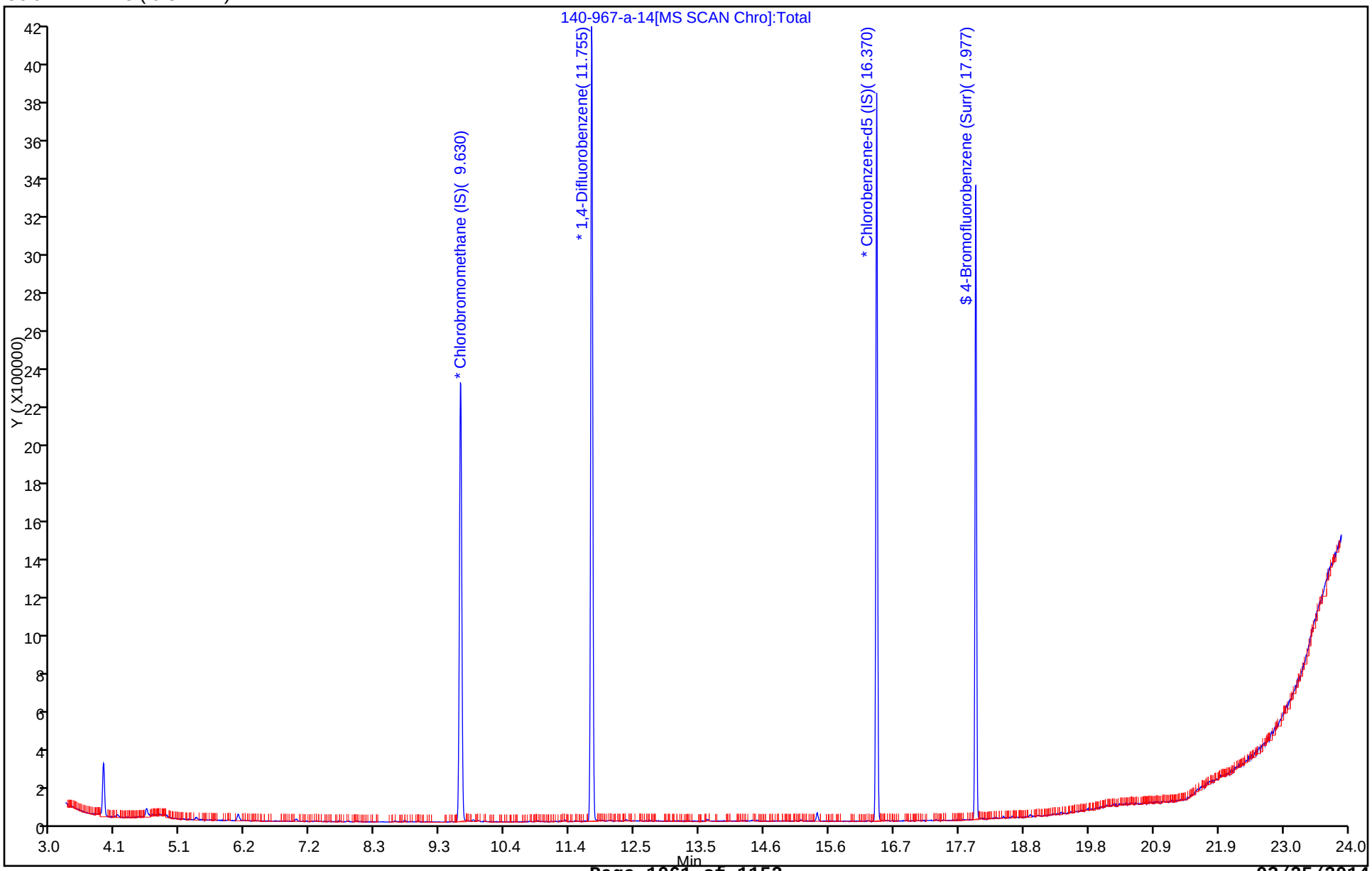
Report Date: 04-Mar-2014 10:11:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-14.D

Injection Date:	04-Mar-2014 08:52:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-967-A-14	Lab Sample ID:	140-967-14	Worklist Smp#:	21
Client ID:	10238				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 | Lab Sample ID: 140-972-1

Matrix: Air | Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 | Lab Sample ID: 140-972-1

Matrix: Air | Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 | Lab Sample ID: 140-972-1

Matrix: Air | Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 Lab Sample ID: 140-972-1

Matrix: Air Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-1.D				
Lims ID:	140-972-A-1	Lab Sample ID:	140-972-1		
Client ID:	10389				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 12:49:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10389				
Misc. Info.:	G030314,TO15,140-0000487-004				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Mar-2014 13:38:41	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: tajh		Date:	03-Mar-2014 13:38:41		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	967380	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4364861	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2668760	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1235472	3.49	

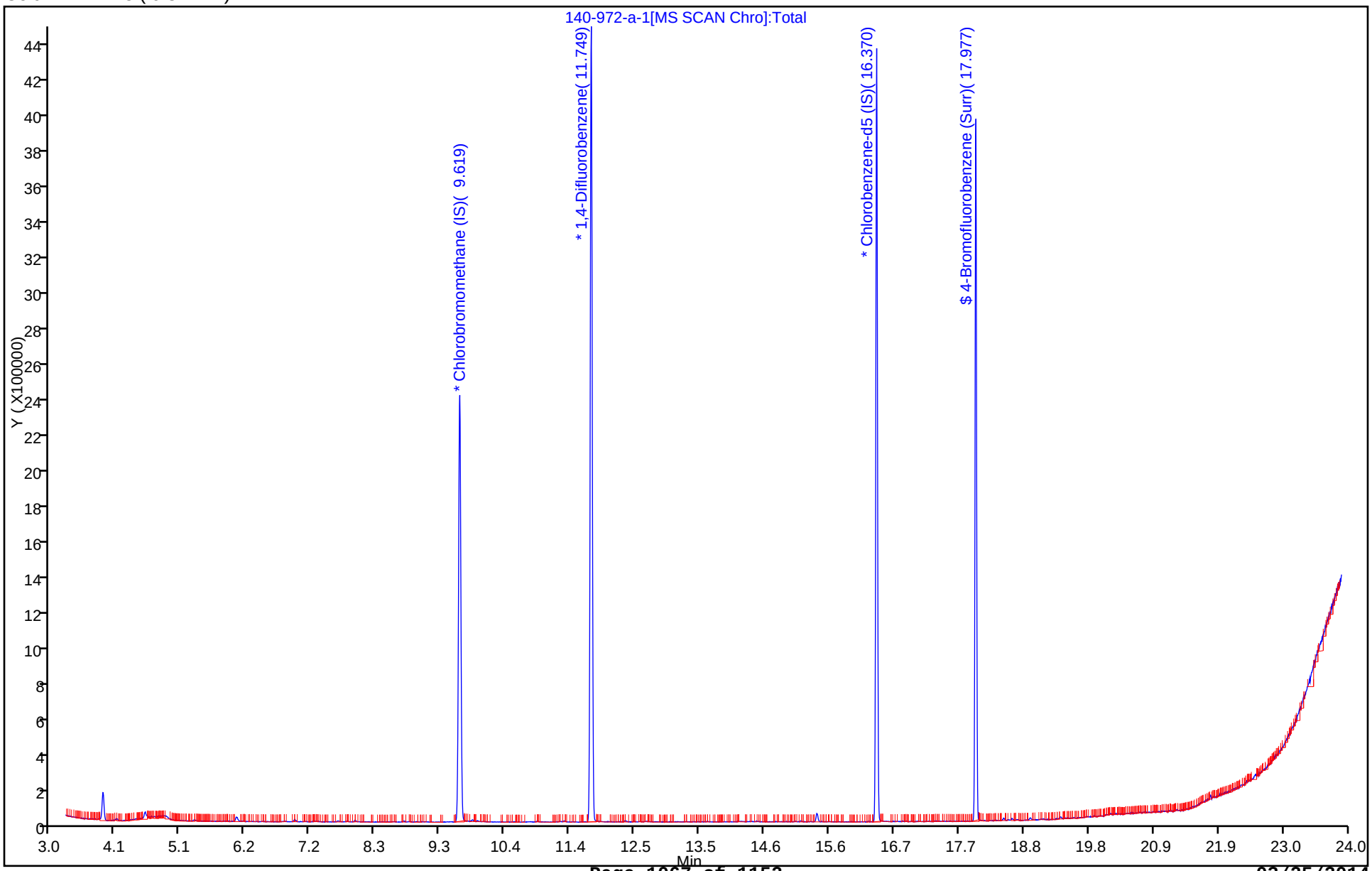
Report Date: 03-Mar-2014 13:38:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-1.D

Injection Date:	03-Mar-2014 12:49:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-1	Lab Sample ID:	140-972-1	Worklist Smp#:	4
Client ID:	10389				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 Lab Sample ID: 140-972-2

Matrix: Air Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-2.D				
Lims ID:	140-972-A-2	Lab Sample ID:	140-972-2		
Client ID:	09601				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 13:44:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09601				
Misc. Info.:	G030314,TO15,140-0000487-005				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Mar-2014 14:29:42	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: tajh		Date:	03-Mar-2014 14:29:41		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	76	889589	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3723079	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2264968	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1046311	3.48	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	85	12279	0.0333	

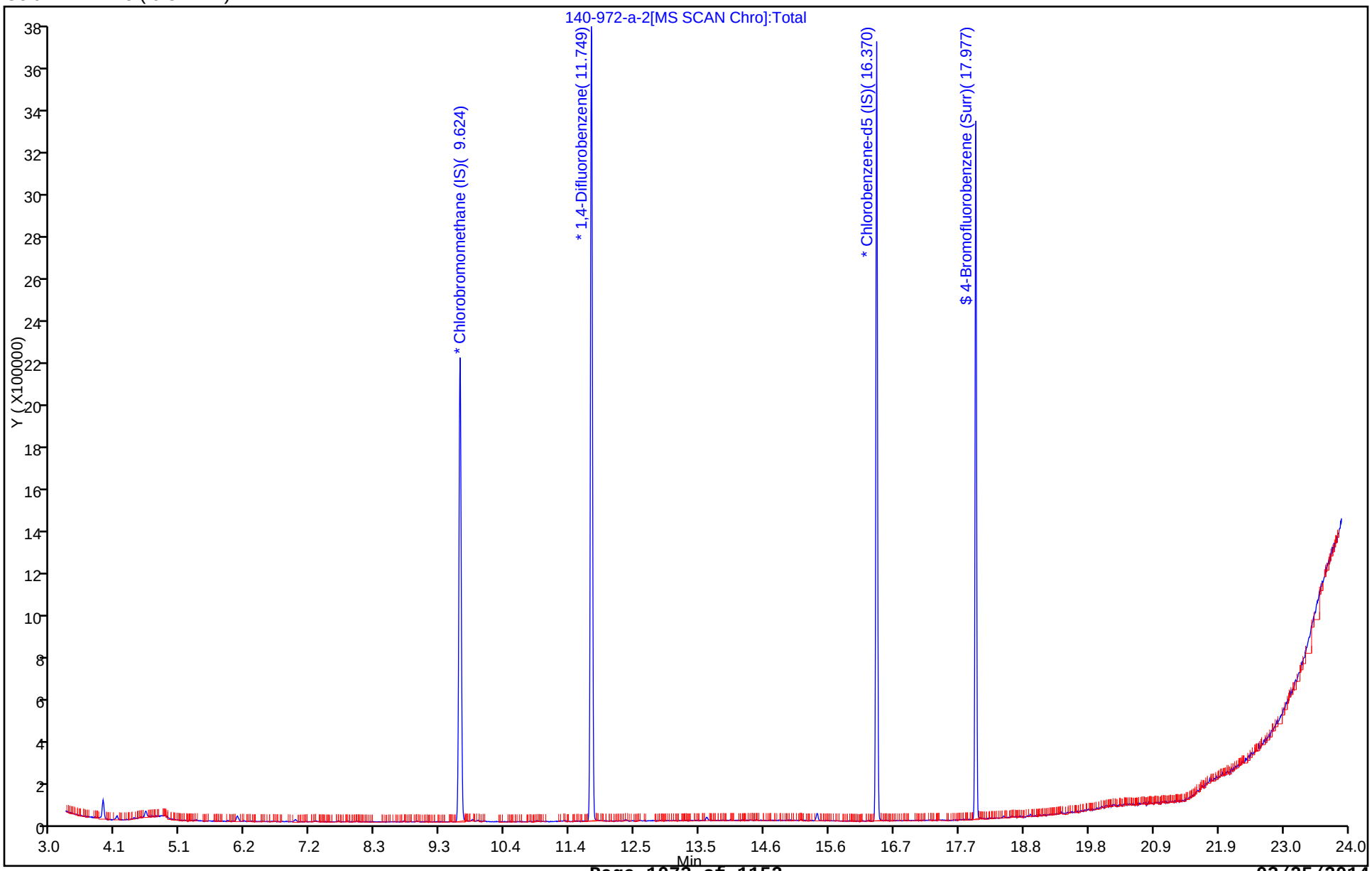
Report Date: 03-Mar-2014 14:29:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-2.D

Injection Date:	03-Mar-2014 13:44:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-2	Lab Sample ID:	140-972-2	Worklist Smp#:	5
Client ID:	09601				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 Lab Sample ID: 140-972-3

Matrix: Air Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 | Lab Sample ID: 140-972-3

Matrix: Air | Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 | Lab Sample ID: 140-972-3

Matrix: Air | Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 Lab Sample ID: 140-972-3

Matrix: Air Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-3.D				
Lims ID:	140-972-A-3	Lab Sample ID:	140-972-3		
Client ID:	11042				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 14:38:30	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11042				
Misc. Info.:	G030314,TO15,140-0000487-006				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 05:48:30	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:22:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	76	923390	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3936684	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2363374	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1078048	3.44	

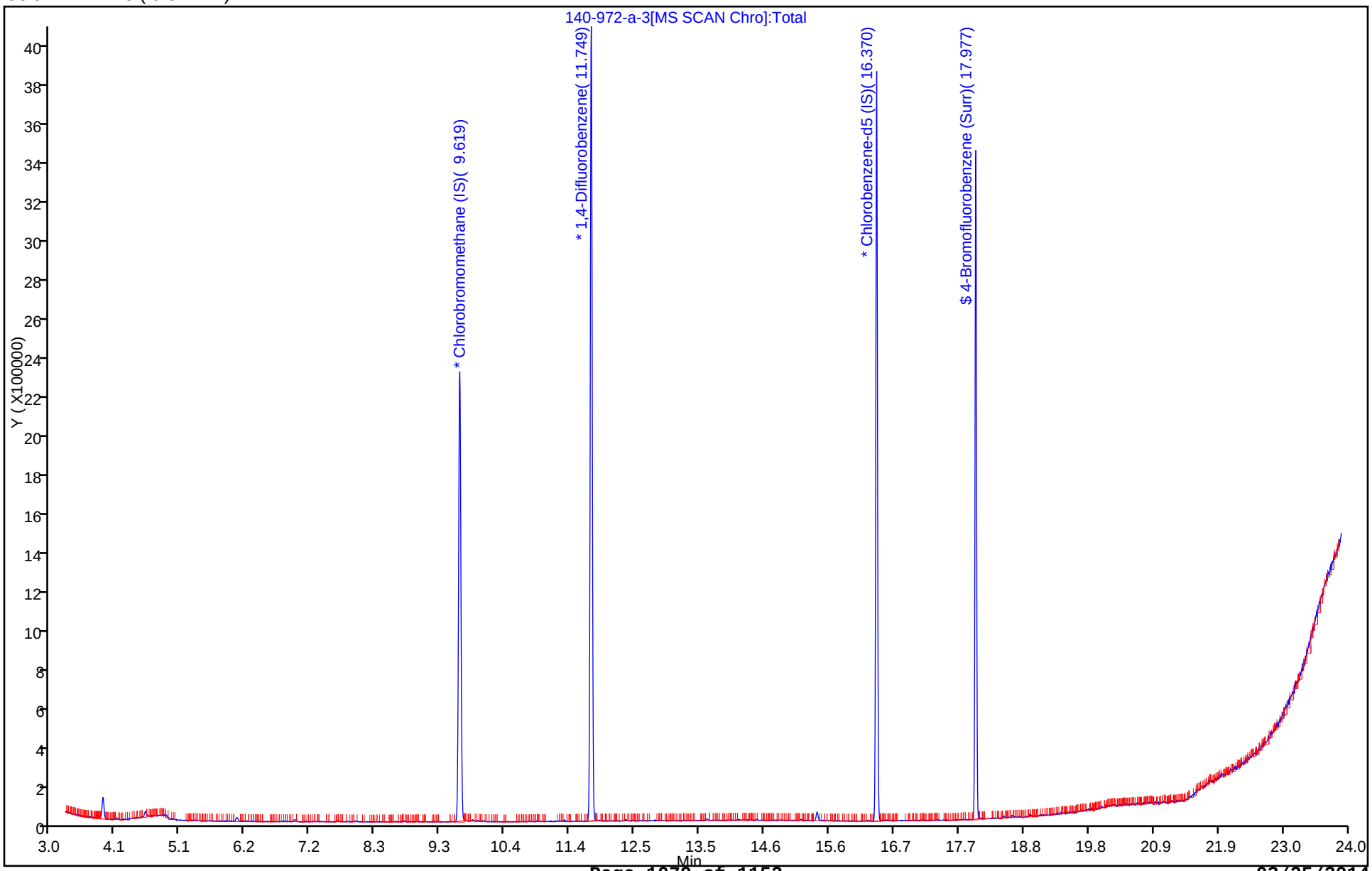
Report Date: 04-Mar-2014 08:22:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-3.D

Injection Date:	03-Mar-2014 14:38:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-3	Lab Sample ID:	140-972-3	Worklist Smp#:	6
Client ID:	11042				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 | Lab Sample ID: 140-972-4

Matrix: Air | Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 | Lab Sample ID: 140-972-4

Matrix: Air | Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 Lab Sample ID: 140-972-4

Matrix: Air Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 Lab Sample ID: 140-972-4

Matrix: Air Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-4.D
Lims ID: 140-972-A-4 Lab Sample ID: 140-972-4
Client ID: 09786
Sample Type: Client
Inject. Date: 03-Mar-2014 15:32:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09786
Misc. Info.: G030314,TO15,140-0000487-007
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 05:48:30 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:22:58

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	76	880037	4.00	
*	2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3600672	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2202888	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1005021	3.44	

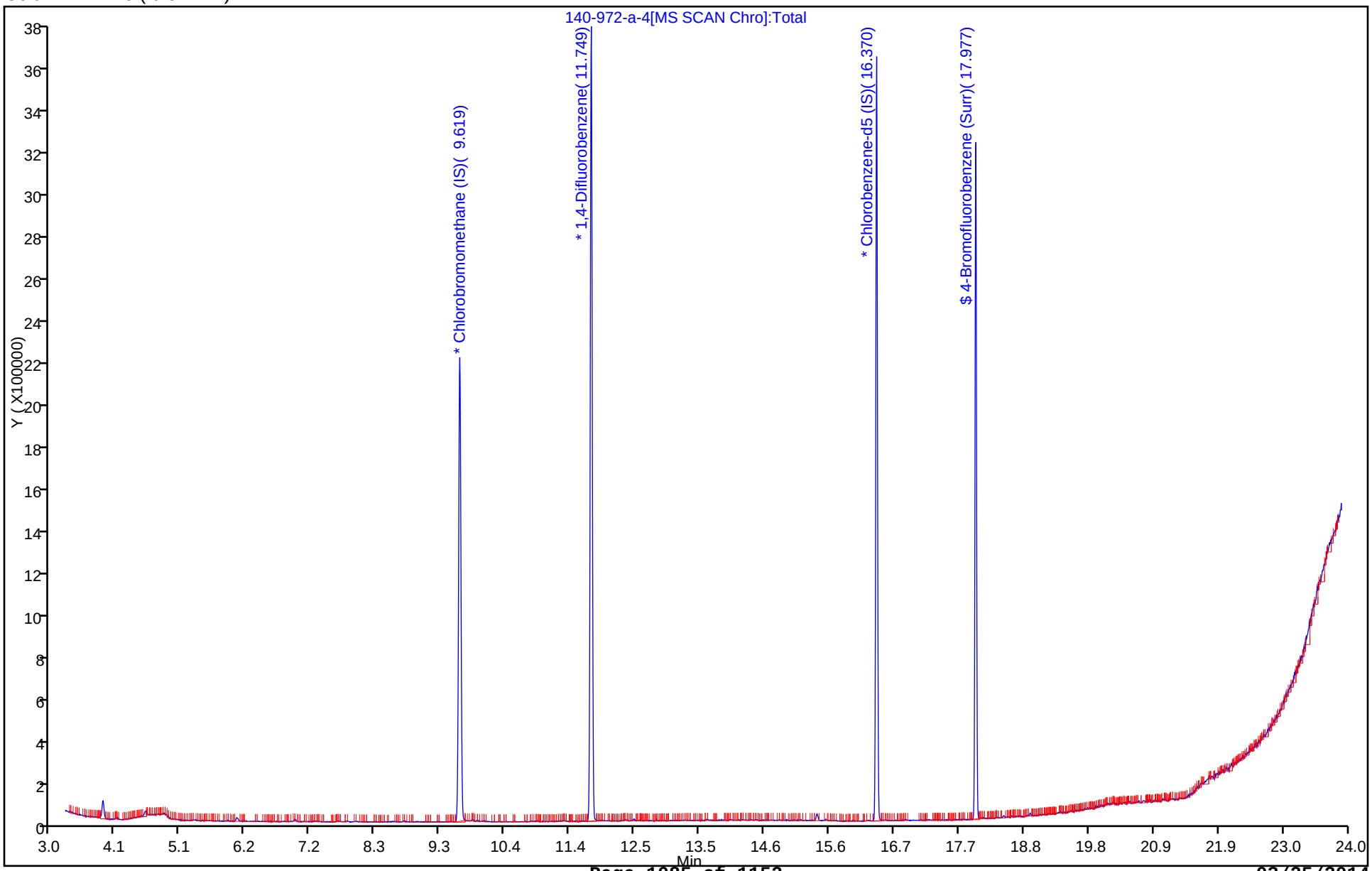
Report Date: 04-Mar-2014 08:22:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-4.D

Injection Date:	03-Mar-2014 15:32:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-4	Lab Sample ID:	140-972-4	Worklist Smp#:	7
Client ID:	09786				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 | Lab Sample ID: 140-972-5

Matrix: Air | Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 | Lab Sample ID: 140-972-5

Matrix: Air | Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 Lab Sample ID: 140-972-5

Matrix: Air Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 Lab Sample ID: 140-972-5

Matrix: Air Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-5.D				
Lims ID:	140-972-A-5	Lab Sample ID:	140-972-5		
Client ID:	10385				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 16:27:30	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10385				
Misc. Info.:	G030314,TO15,140-0000487-008				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 05:48:30	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:23:02		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.625	9.641	-0.017	75	877059	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3608675	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2160845	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	969074	3.38	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	85	8449	0.0237	

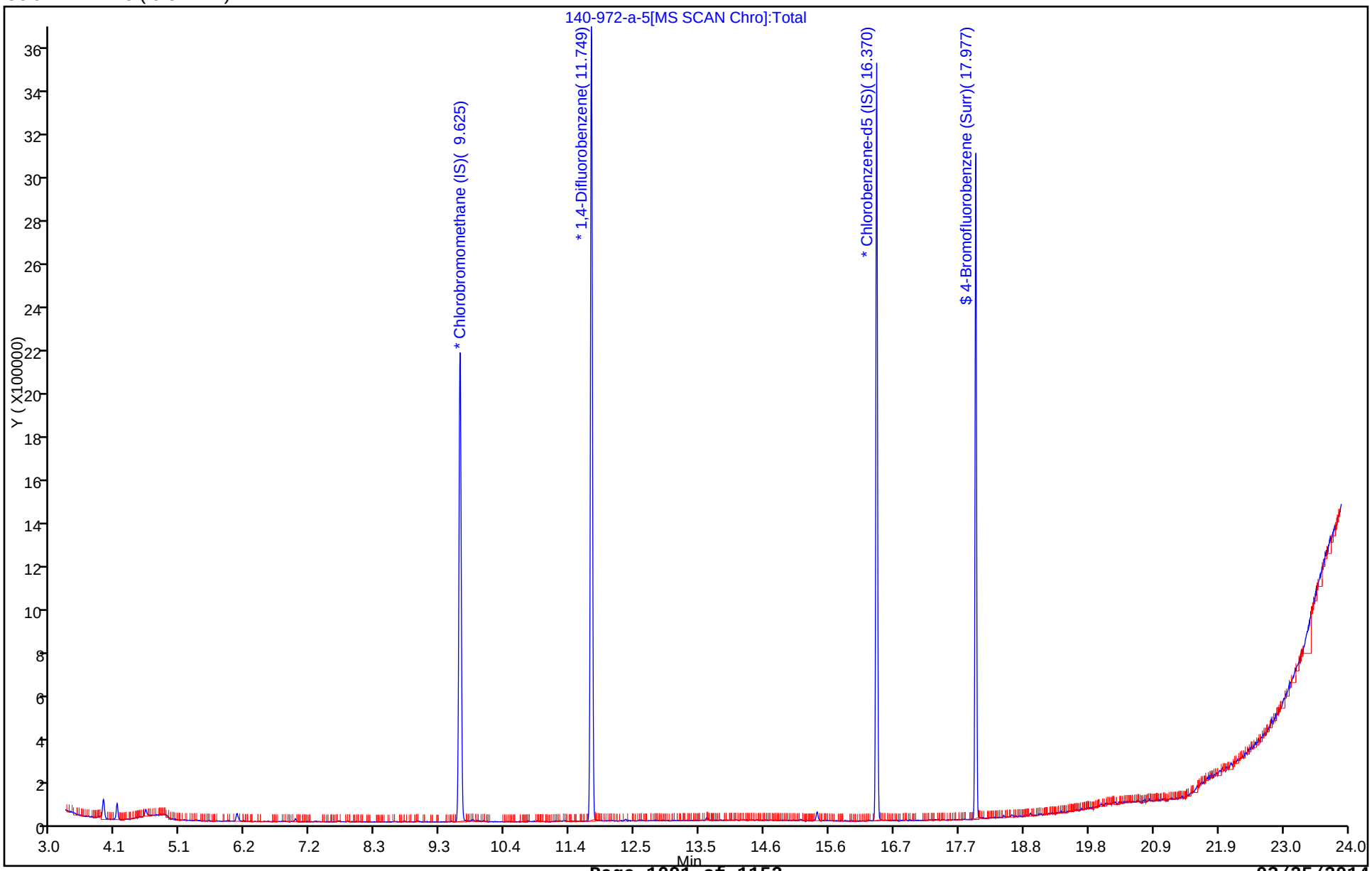
Report Date: 04-Mar-2014 08:23:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-5.D

Injection Date:	03-Mar-2014 16:27:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-5	Lab Sample ID:	140-972-5	Worklist Smp#:	8
Client ID:	10385				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 Lab Sample ID: 140-972-6

Matrix: Air Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-6.D
Lims ID: 140-972-A-6 Lab Sample ID: 140-972-6
Client ID: 10090
Sample Type: Client
Inject. Date: 03-Mar-2014 17:21:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10090
Misc. Info.: G030314,TO15,140-0000487-009
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:23:37 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:23:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	932087	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4057043	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2412379	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1065957	3.33	
6 Chlorodifluoromethane	67	4.054	4.054	0.0	65	2295	0.0238	
20 Trichlorofluoromethane	101	5.790	5.807	-0.017	85	10752	0.0103	
31 Methylene Chloride	84	6.955	6.966	-0.011	89	35564	0.1544	
39 Hexane	56	8.810	8.826	-0.016	86	12730	0.0622	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	89	10953	0.0273	

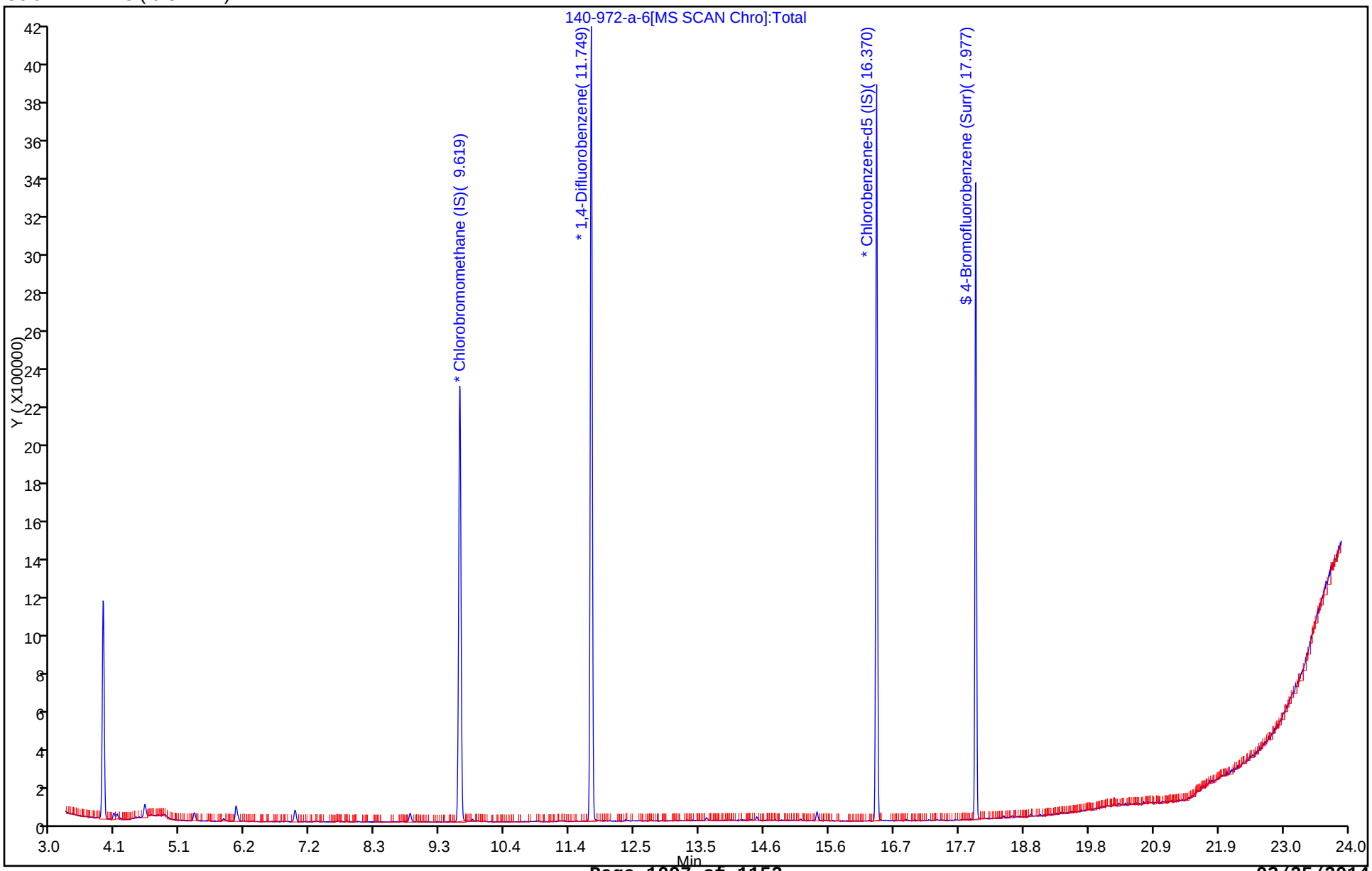
Report Date: 04-Mar-2014 08:23:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-6.D

Injection Date:	03-Mar-2014 17:21:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-6	Lab Sample ID:	140-972-6	Worklist Smp#:	9
Client ID:	10090				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 | Lab Sample ID: 140-972-7

Matrix: Air | Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 | Lab Sample ID: 140-972-7

Matrix: Air | Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 | Lab Sample ID: 140-972-7

Matrix: Air | Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 Lab Sample ID: 140-972-7

Matrix: Air Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-7.D
Lims ID: 140-972-A-7 Lab Sample ID: 140-972-7
Client ID: 10526
Sample Type: Client
Inject. Date: 03-Mar-2014 23:05:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10526
Misc. Info.: G030314,TO15,140-0000487-010
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:24:00 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:24:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.625	9.641	-0.016	76	943908	4.00	
*	2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4121046	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	3121305	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1662879	4.02	

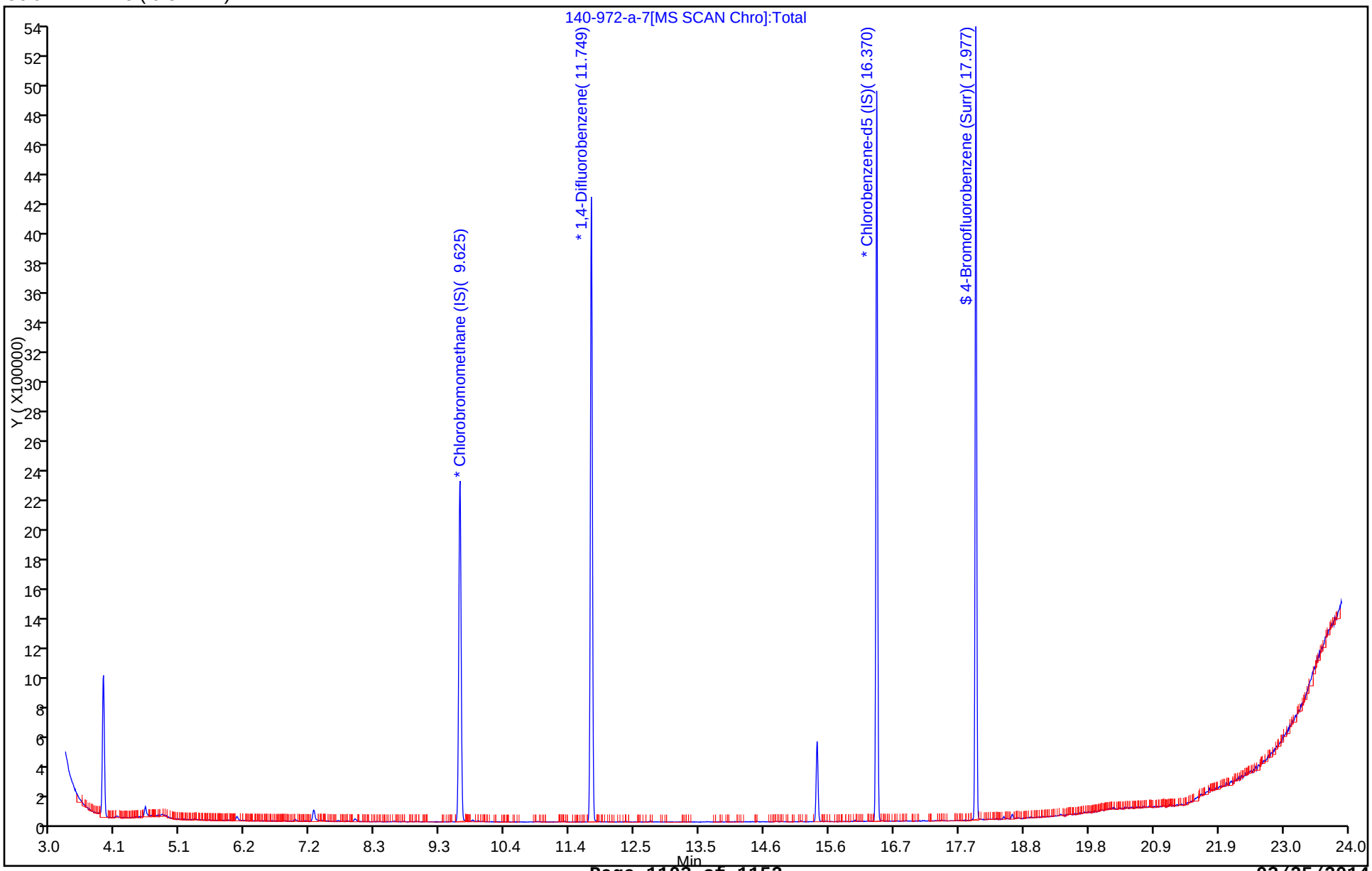
Report Date: 04-Mar-2014 08:24:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-7.D

Injection Date:	03-Mar-2014 23:05:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-7	Lab Sample ID:	140-972-7	Worklist Smp#:	10
Client ID:	10526				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 | Lab Sample ID: 140-972-8

Matrix: Air | Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 | Lab Sample ID: 140-972-8

Matrix: Air | Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 | Lab Sample ID: 140-972-8

Matrix: Air | Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 Lab Sample ID: 140-972-8

Matrix: Air Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-8.D				
Lims ID:	140-972-A-8	Lab Sample ID:	140-972-8		
Client ID:	09525				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 23:58:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09525				
Misc. Info.:	G030314,TO15,140-0000487-011				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:24:21	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:24:21		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.635	9.641	-0.006	75	890397	4.00	
* 2 1,4-Difluorobenzene	114	11.760	11.760	0.0	94	3611803	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2217302	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1021513	3.48	

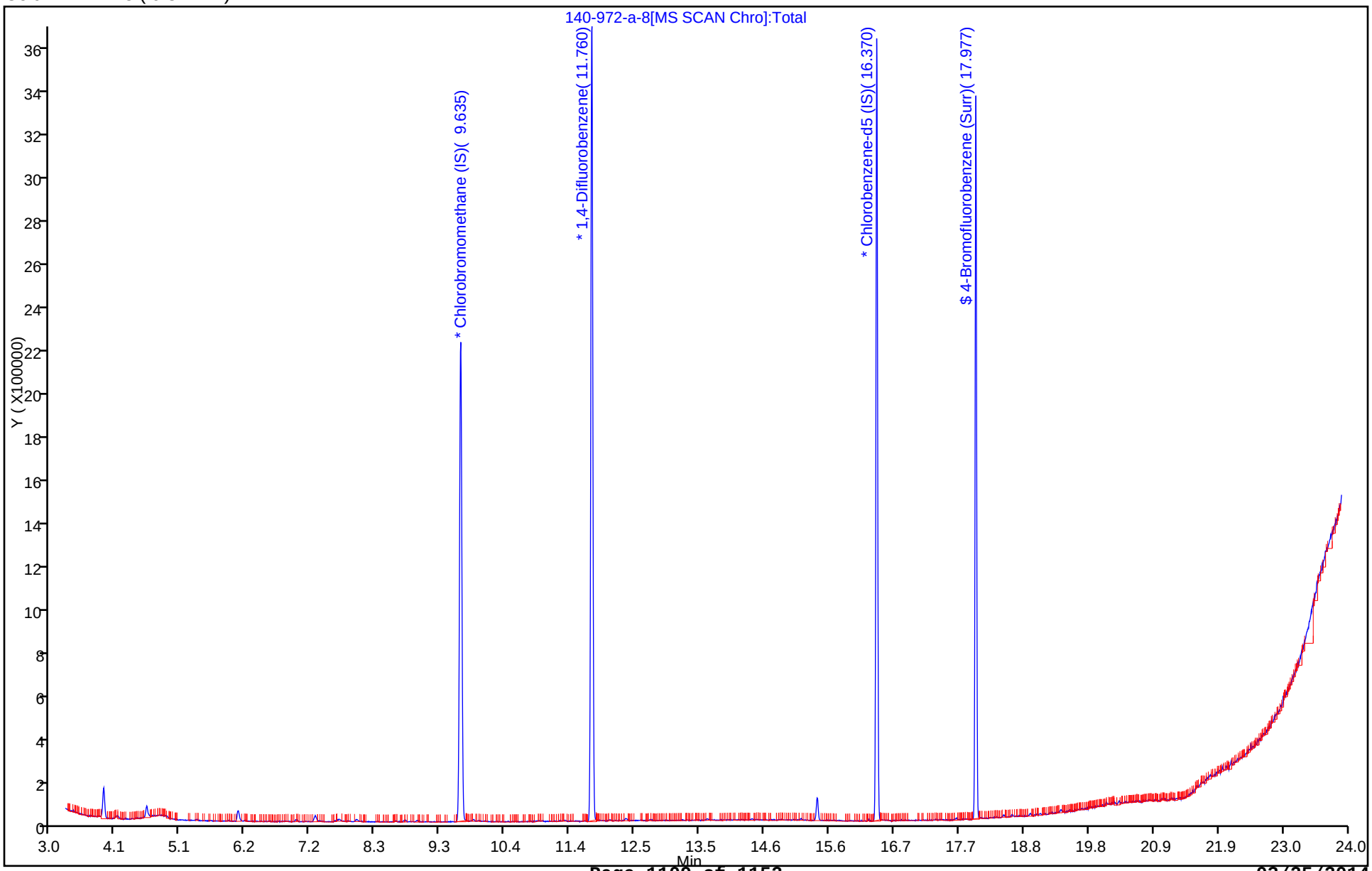
Report Date: 04-Mar-2014 08:24:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-8.D

Injection Date:	03-Mar-2014 23:58:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-8	Lab Sample ID:	140-972-8	Worklist Smp#:	11
Client ID:	09525				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 | Lab Sample ID: 140-972-9

Matrix: Air | Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 | Lab Sample ID: 140-972-9

Matrix: Air | Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 Lab Sample ID: 140-972-9

Matrix: Air Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 Lab Sample ID: 140-972-9

Matrix: Air Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-9.D
Lims ID: 140-972-A-9 Lab Sample ID: 140-972-9
Client ID: 10131
Sample Type: Client
Inject. Date: 04-Mar-2014 00:52:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10131
Misc. Info.: G030314,TO15,140-0000487-012
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:24:42 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:24:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	75	969644	4.00	
*	2 1,4-Difluorobenzene	114	11.754	11.760	-0.006	94	4351268	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2565515	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1167168	3.43	

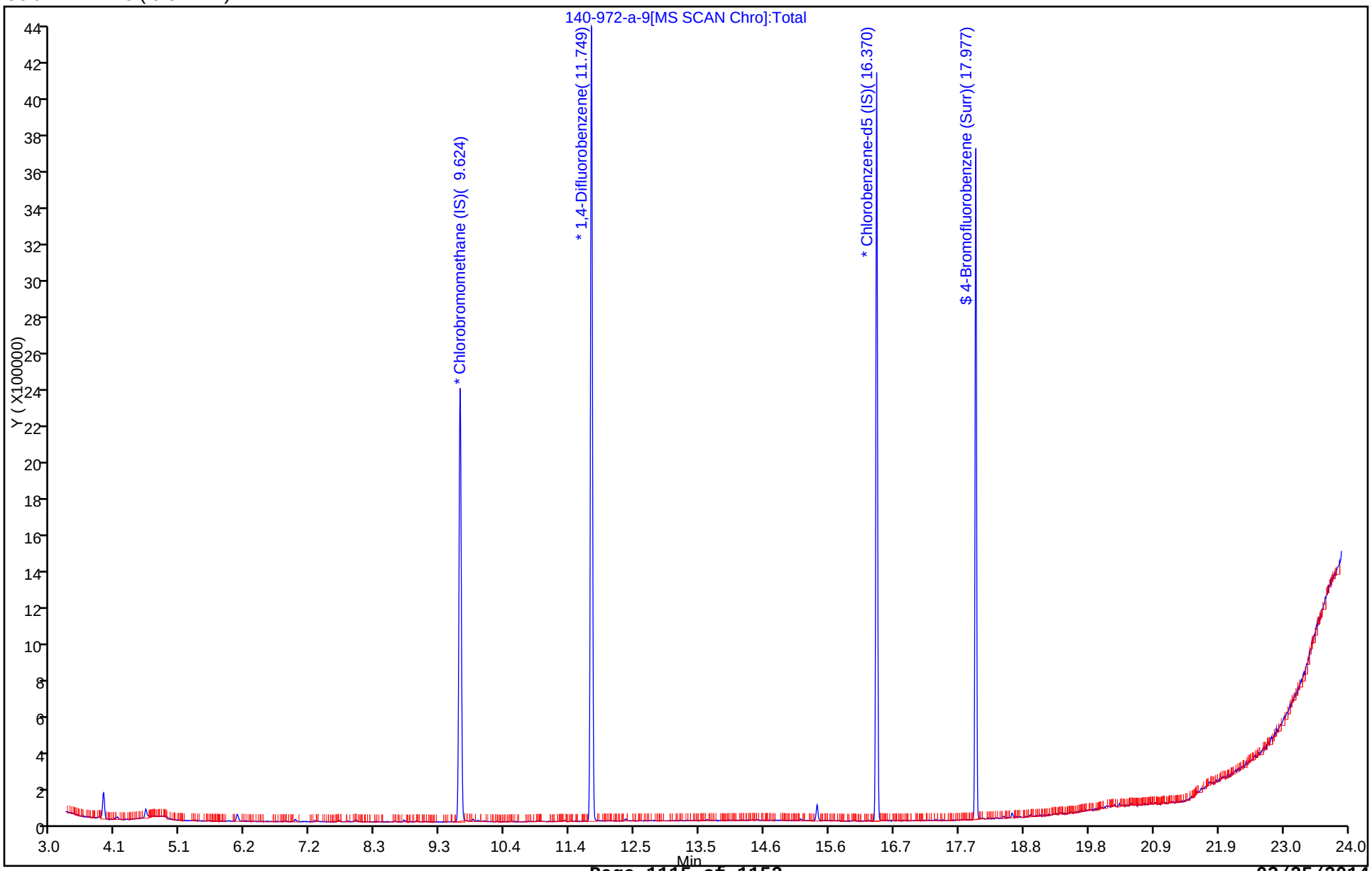
Report Date: 04-Mar-2014 08:24:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-9.D

Injection Date:	04-Mar-2014 00:52:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-9	Lab Sample ID:	140-972-9	Worklist Smp#:	12
Client ID:	10131				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 | Lab Sample ID: 140-972-13

Matrix: Air | Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 | Lab Sample ID: 140-972-13

Matrix: Air | Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 | Lab Sample ID: 140-972-13

Matrix: Air | Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 Lab Sample ID: 140-972-13

Matrix: Air Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-13.D
Lims ID: 140-972-A-13 Lab Sample ID: 140-972-13
Client ID: 10551
Sample Type: Client
Inject. Date: 04-Mar-2014 04:26:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10551
Misc. Info.: G030314,TO15,140-0000487-016
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:26:28 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:26:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.625	9.641	-0.016	76	965622	4.00	
*	2 1,4-Difluorobenzene	114	11.755	11.760	-0.005	94	4293373	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2452995	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1059261	3.26	

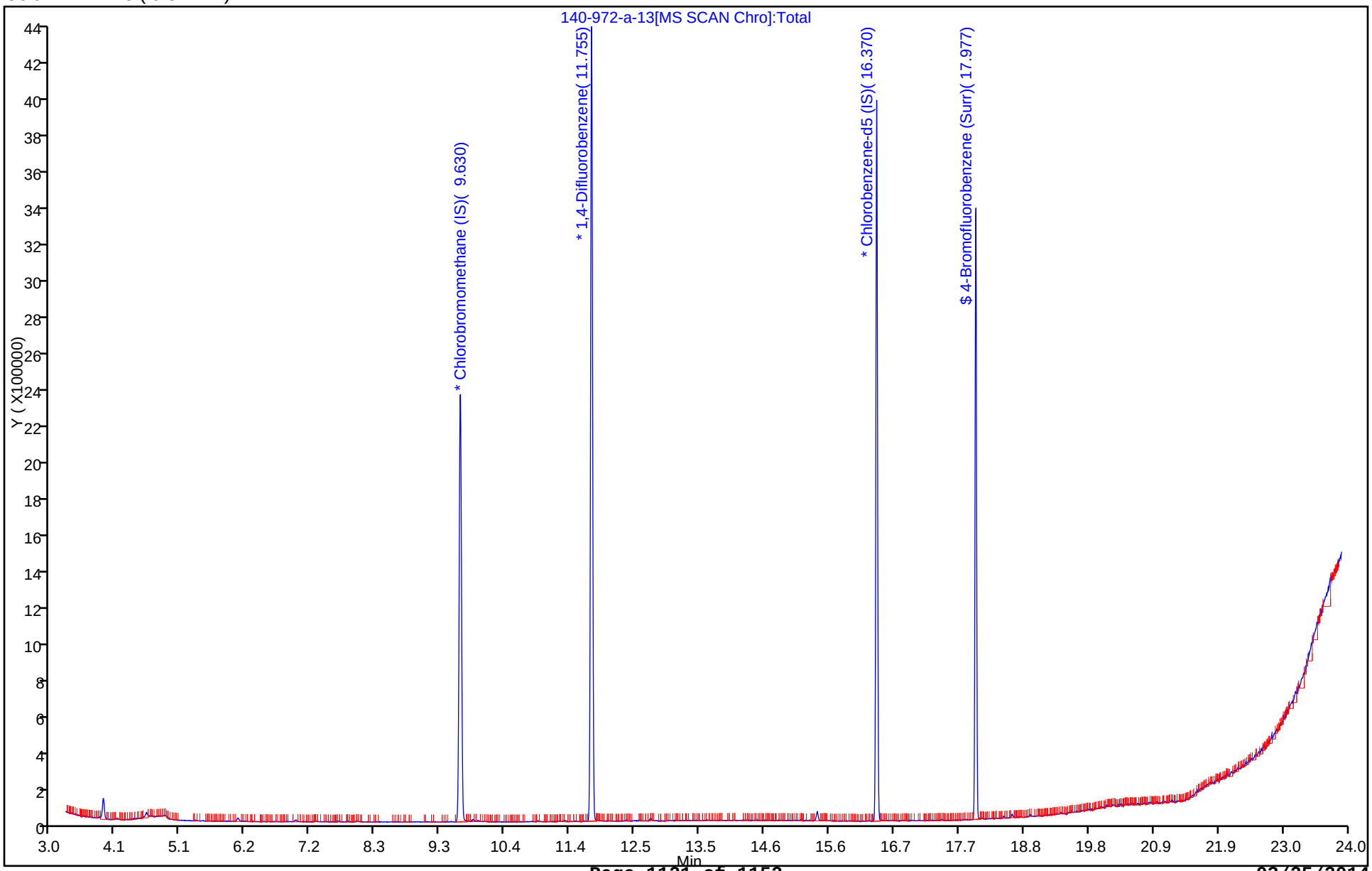
Report Date: 04-Mar-2014 08:26:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-13.D

Injection Date:	04-Mar-2014 04:26:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-13	Lab Sample ID:	140-972-13	Worklist Smp#:	16
Client ID:	10551				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 | Lab Sample ID: 140-972-14

Matrix: Air | Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 | Lab Sample ID: 140-972-14

Matrix: Air | Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 Lab Sample ID: 140-972-14

Matrix: Air Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 Lab Sample ID: 140-972-14

Matrix: Air Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-14.D
Lims ID: 140-972-A-14 Lab Sample ID: 140-972-14
Client ID: 09975
Sample Type: Client
Inject. Date: 04-Mar-2014 05:19:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09975
Misc. Info.: G030314,TO15,140-0000487-017
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:27:04 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:27:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	910296	4.00	
*	2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3912507	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2263475	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	998614	3.33	
	25 Isopropyl alcohol	45	6.109	6.109	0.0	94	15602	0.0505	
	51 n-Butanol	31	11.258	11.242	0.016	40	3898	0.0605	
	62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	92	17794	0.0459	
	93 1,2,4-Trimethylbenzene	105	19.072	19.072	0.0	96	32257	0.0599	

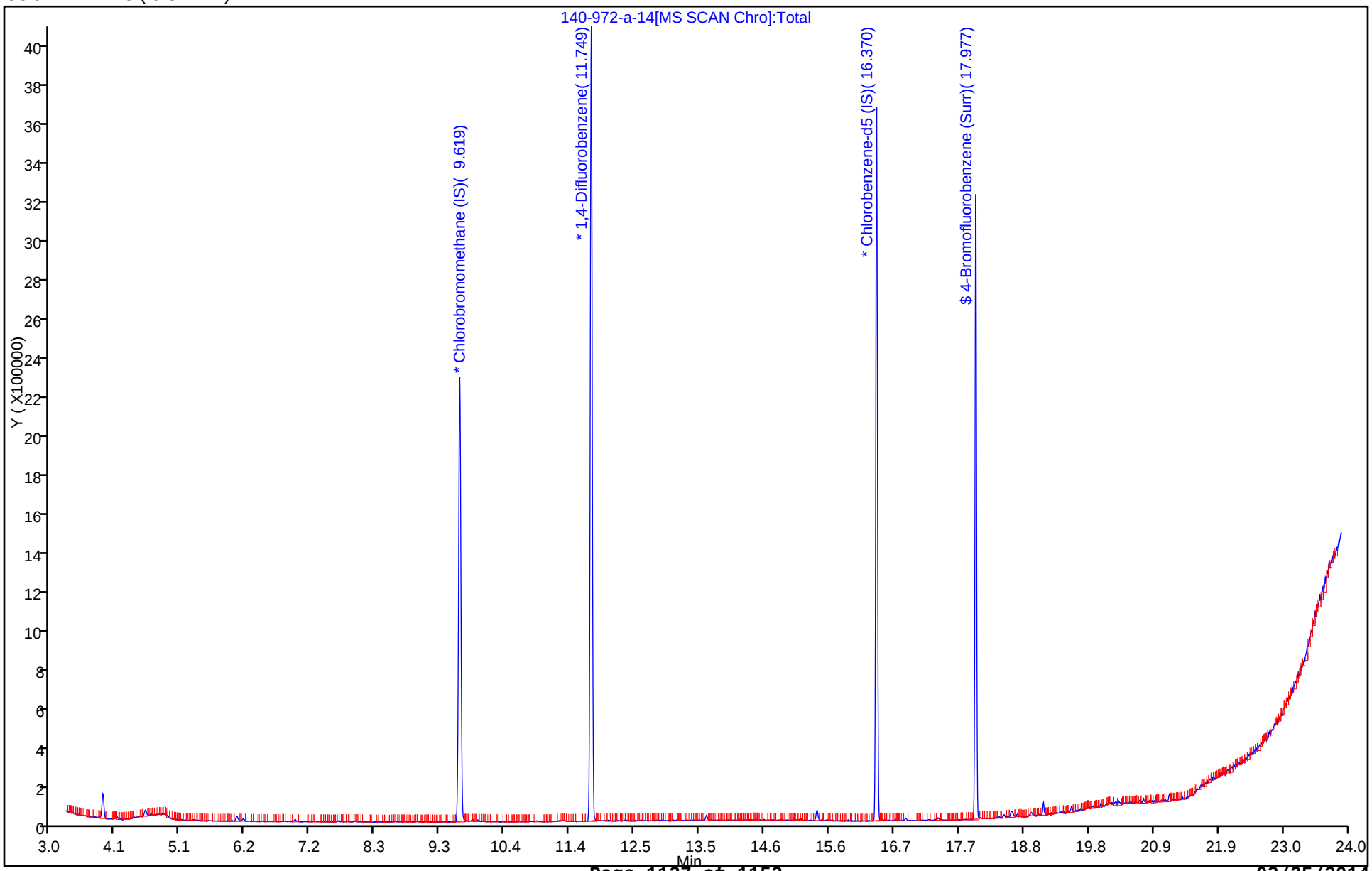
Report Date: 04-Mar-2014 08:27:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-14.D

Injection Date:	04-Mar-2014 05:19:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-14	Lab Sample ID:	140-972-14	Worklist Smp#:	17
Client ID:	09975				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 | Lab Sample ID: 140-972-15

Matrix: Air | Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 | Lab Sample ID: 140-972-15

Matrix: Air | Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 Lab Sample ID: 140-972-15

Matrix: Air Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 Lab Sample ID: 140-972-15

Matrix: Air Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-15.D				
Lims ID:	140-972-A-15	Lab Sample ID:	140-972-15		
Client ID:	11045				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 06:13:30	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11045				
Misc. Info.:	G030314,TO15,140-0000487-018				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:28:09	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:28:09		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	928326	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4093050	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2442691	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1112387	3.44	

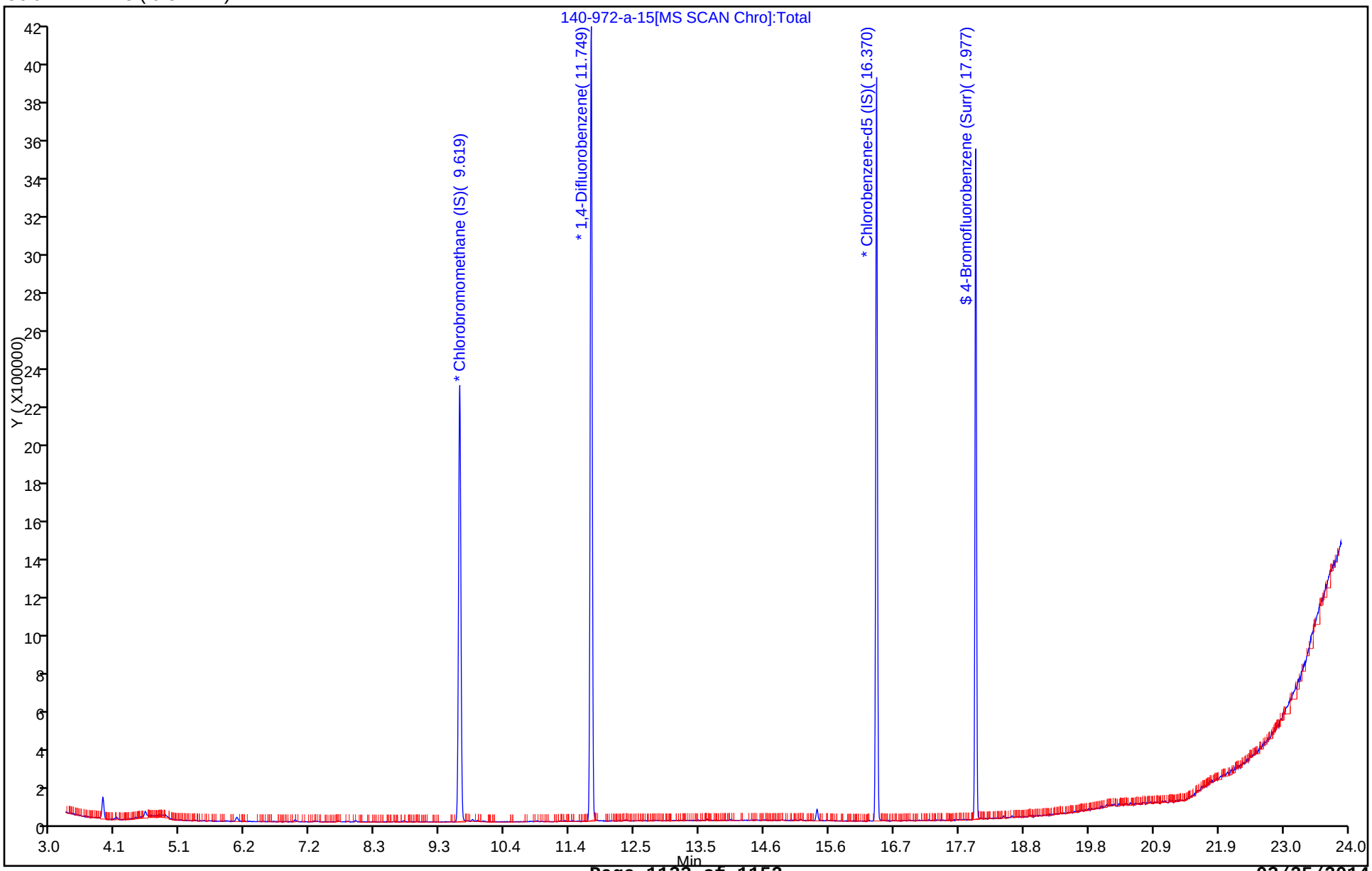
Report Date: 04-Mar-2014 08:28:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-15.D

Injection Date:	04-Mar-2014 06:13:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-15	Lab Sample ID:	140-972-15	Worklist Smp#:	18
Client ID:	11045				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 Lab Sample ID: 140-972-16

Matrix: Air Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-16.D
Lims ID: 140-972-A-16 Lab Sample ID: 140-972-16
Client ID: 11041
Sample Type: Client
Inject. Date: 04-Mar-2014 07:08:30 ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 11041
Misc. Info.: G030314,TO15,140-0000487-019
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:28:43 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:28:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	76	914418	4.00	
*	2 1,4-Difluorobenzene	114	11.754	11.760	-0.006	94	3845353	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2138063	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	857245	3.02	

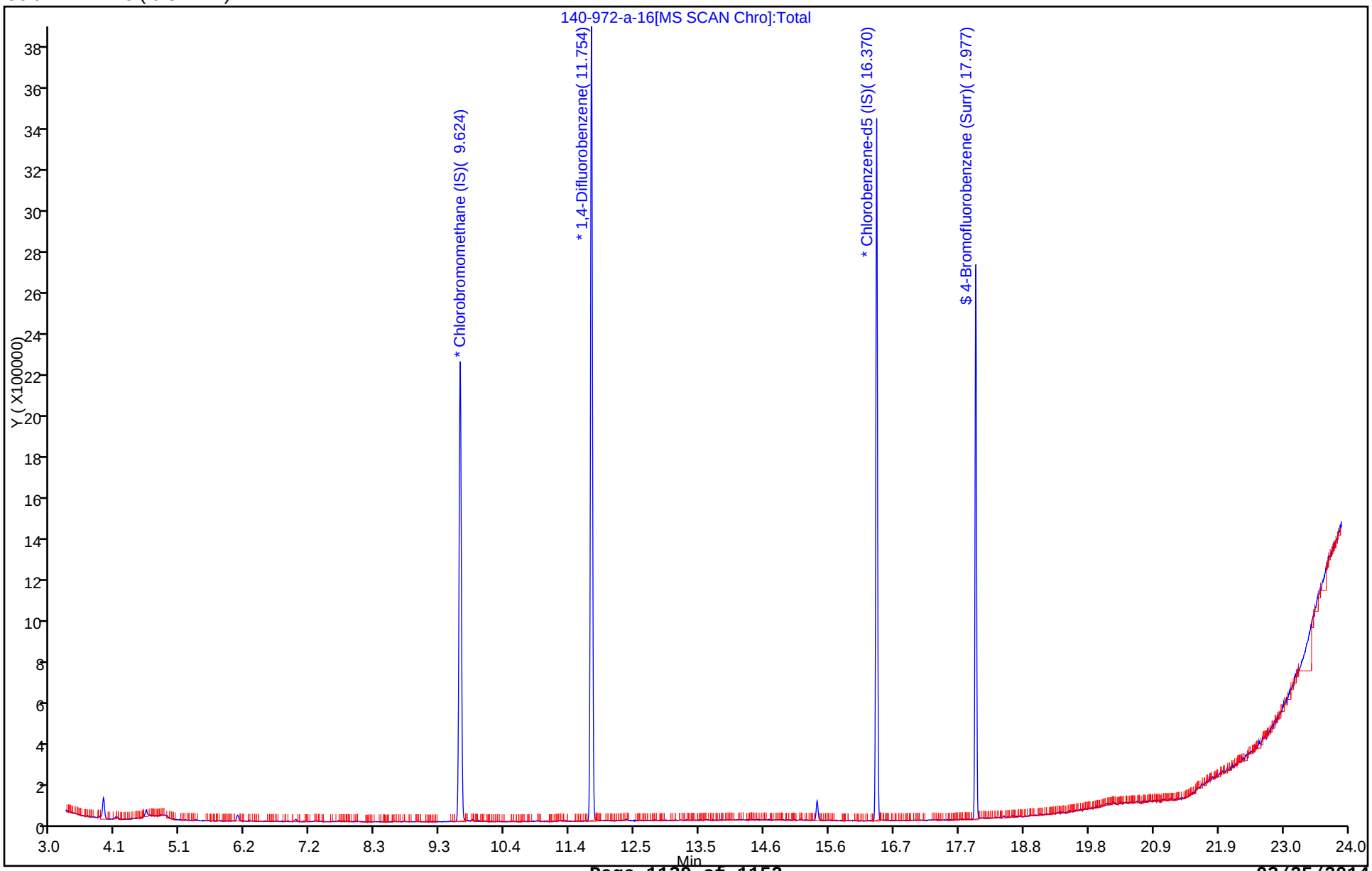
Report Date: 04-Mar-2014 08:28:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-16.D

Injection Date:	04-Mar-2014 07:08:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-16	Lab Sample ID:	140-972-16	Worklist Smp#:	19
Client ID:	11041				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-986-1

SDG No.:

Client Sample ID: 10247 | Lab Sample ID: 140-986-16

Matrix: Air | Lab File ID: 140-986-a-16.D

Analysis Method: TO 15 LL | Date Collected: 03/03/2014 14:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-986-1

SDG No.:

Client Sample ID: 10247 | Lab Sample ID: 140-986-16

Matrix: Air | Lab File ID: 140-986-a-16.D

Analysis Method: TO 15 LL | Date Collected: 03/03/2014 14:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.061		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-986-1

SDG No.:

Client Sample ID: 10247 Lab Sample ID: 140-986-16

Matrix: Air Lab File ID: 140-986-a-16.D

Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:00

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-986-1

SDG No.:

Client Sample ID: 10247 Lab Sample ID: 140-986-16

Matrix: Air Lab File ID: 140-986-a-16.D

Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:00

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-986-a-16.D
Lims ID: 140-986-A-16 Lab Sample ID: 140-986-16
Client ID: 10247
Sample Type: Client
Inject. Date: 04-Mar-2014 08:19:30 ALS Bottle#: 15 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10247
Misc. Info.: E030314,TO155,,140-0000488-026
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:19:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:19:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	119831	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	585337	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	90	511960	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	87	437270	3.90	
44 Tetrahydrofuran	42	8.782	8.755	0.027	69	2654	0.0863	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	55	1692	0.0244	
65 Toluene	91	13.403	13.403	0.0	74	8741	0.0637	
73 Tetrachloroethene	129	14.546	14.557	-0.011	84	3569	0.0611	

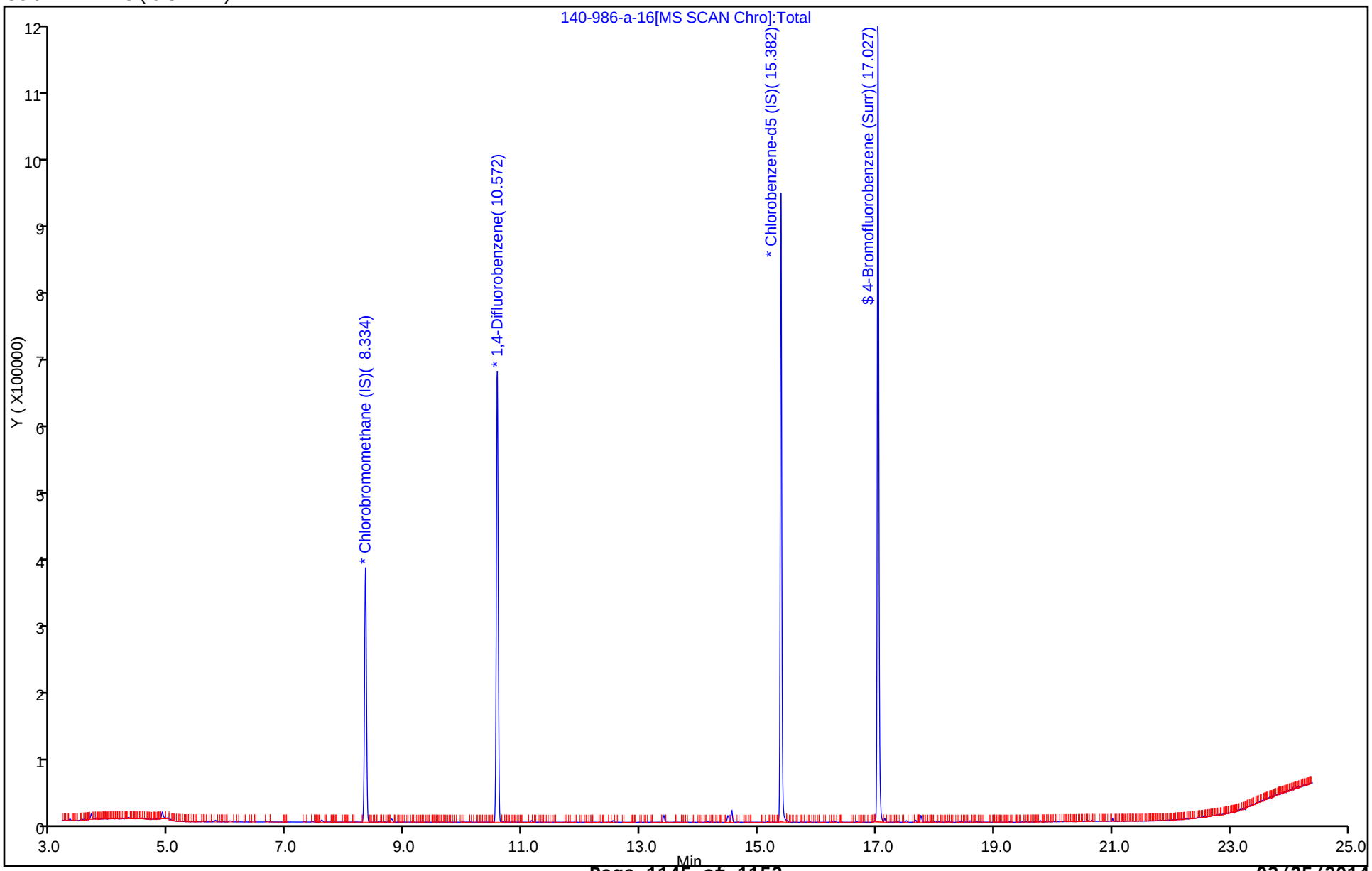
Report Date: 04-Mar-2014 10:19:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-986-a-16.D

Injection Date:	04-Mar-2014 08:19:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-986-A-16	Lab Sample ID:	140-986-16	Worklist Smp#:	26
Client ID:	10247				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



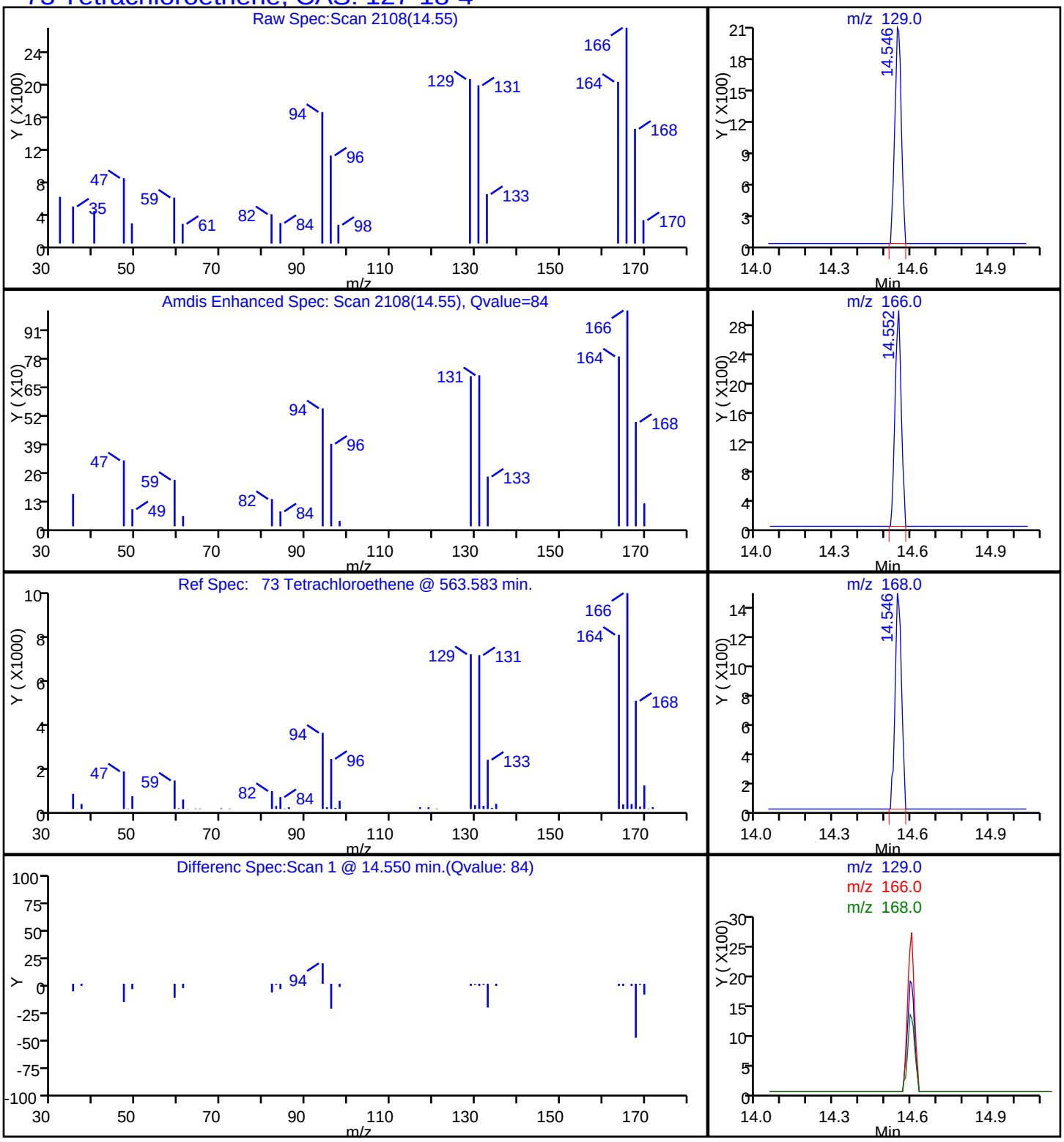
Report Date: 04-Mar-2014 10:19:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-986-a-16.D

Injection Date:	04-Mar-2014 08:19:30	Instrument ID:	ME		
Lims ID:	140-986-A-16	Lab Sample ID:	140-986-16		
Client ID:	10247				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Kristen Barbour	1 of 3 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8410			
Project Name: Peter Cooper Village IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Canisters)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B1	3/11/14	850	1620	-30	-7	10869	10389	X						X	X				78°F
PCV-IA2-B1	3/11/14	842	1617	-30	-6	10862	09601	X						X	X				79°F
PCV-IA1-B2	3/11/14	910	1640	-28	-5	09704	10090	X						X	X				68°F
PCV-IA2-B2	3/11/14	930	1636	-30	-7	10058	10527	X						X	X				73°F

Sampled by : K. Barbour

Temperature (Fahrenheit)	Interior	Ambient
Start		44°F
Stop		

Sampled by : K. Barbour

Pressure (inches of Hg)	Interior	Ambient
Start		29.26
Stop		

4 Boxes UPS 3/12/14 NO CUSTODY SEALS
RECEIVED @ AMBIENT TEMP
R.A. 3/12/14
4 Boxes UPS 1Z08395E0160641272
1Z08395E0160058091, 1Z08395E0158585105
1Z08395E0160855489 NEXT DAY AIR
19 CANS, 19 FLOWS, 13 CANDY CANES

Special Instructions/QC Requirements & Comments:
Temperatures @ each location listed in other column

Canisters Shipped by:	Date/Time: 3/11/14 1945	Canisters Received by: Rita Hancock	3/12/14 09:59
Samples Relinquished by:	Date/Time: 3/11/14 17:05	Received by:	
Relinquished by:	Date/Time:	Received by:	

140-1041 Chain of Custody

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: Jennifer Pfeiffer	Samples Collected By: Sara Meissner	COC No:
Company Name:	AECOM	Phone: 516-581-7318		2 of 3 COCs
Address:	125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip	New York, NY 10004	Site Contact: Jessica Ehlen		For Lab Use Only:
Phone:	212-377-8400	TA Contact: Jamie McKinney		Walk-in Client:
FAX:	212-377-8410	Anaylsis Turnaround Time		Lab Sampling:
Project Name:	Peter Cooper Village IA	Standard (Specific): X		Job / SDG No.:
Site/Location:	Peter Cooper Village, NYC	Rush (Specifiy):		(See below for Add'l Items)
P O #				

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med+Std+Low+SIM) + Cancel MOP List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B13	3/11/14	0855	1506	-30	-3	K487	10578	X								Composite	X					67°F
PCV-1A2-B13	3/11/14	0900	1610	-29	-4	K213	10332	X									X					67°F
PCV-1A3-B13	3/11/14	0905	1614	-30	-5	K388	09695	X									X					67°F
PCV-AMB-3	3/11/14	0909	1618	-30	-5	K473	10330	X										X				62°F
PCV-1A1-B14	3/11/14	0920	1635	-28	-7	K494	09820	X									X					67°F
PCV-1A1FD-B14	3/11/14	0920	1635	-30	-5	K345	10716	X									X					67°F
PCV-1A2-B14	3/11/14	0925	1642	-30	-6	K315	10542	X									X					67°F

Temperature (Fahrenheit)

	Interior	Ambient
Start	67°	44°
Stop	67°	62°

	Barometric ~~Temperature (Fahrenheit)~~ Pressure	
Start	~~Interior~~	~~Ambient~~ 29.62 — Start
Stop		29.62 — Stop

Special Instructions/QC Requirements & Comments:
Note: FC# K487 = 10698, FC# K213 = 10653, FC# K388 # 10293, FC# K473 = ~~10330~~ 10054, FC# K494 = 10057, FC# K345 = 10082, FC# K315 = 09559

Samples Shipped by:	Date / Time: 3/11/14 / 1945	Samples Received by: Rita Hancock	3/12/14 09:59
Samples Relinquished by:	Date / Time: 3/11/14 1705	Received by:	
Relinquished by:	Date / Time:	Received by:	

Lab Use Only: Shipper Name: Opened by: Condition:

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No:
Company Name: AECOM	Phone: 212-377-8706		3 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8400	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212-377-8410	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village, IA	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: Peter Cooper Village, NYC	Standard (Specific): X		(See below for Add'l Items)
P O #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3688	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type (composite)	Indoor Air	Ambient Air (outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B4	3/11/14	9:41	15:26	-30	-5	09909	10331	X								X	X					Temp - 69°F
PCV-1A1-B3		9:42	15:50	-29	-5	10661	10212	X								X	X					Temp - 73°F
PCV-1A2-B3		8:38	16:04	-29	-5	10141	10411	X								X	X					Temp: 72°F
PCV-1A3-B3		8:47	16:21	-30	-5	10599	10247	X								X	X					Temp 72°F
*PCV-1A2-B4		9:40	16:45	-30	-8	10621	10709	X								X	X					Temp: 70°F
PCV-AMB4		9:35	16:39	-30	-6	10631	10967	X								X		X				Temp: 50°F

	Temperature (Fahrenheit)		
J. Christoffel	Start	Interior ~~X~~	Ambient 44°F
	Stop		60°F

	~~Temperature (Fahrenheit)~~ Barometric		
J. Christoffel	Start	Interior ~~X~~	Ambient 29.62 in Hg
	Stop		29.60 in Hg

Special Instructions/QC Requirements & Comments:
PCV-1A2-B4 - Hard time getting regulator off. When regulator came off it made hissing sound. Please hold sample ~~until~~

Samples Shipped by:	Date / Time: 3/11/14/1945	Samples Received by: Rita Hancock 3/12/14 09:59
Samples Relinquished by: J. Christoffel	Date / Time: 3-11-14	Received by:
Relinquished by:	Date / Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DLW	3/13/2014	11:12	140-1041-a-1	X		-5.4	
DLW	3/13/2014	11:12	140-1041-a-2	X		-7.6	
DLW	3/13/2014	11:13	140-1041-a-3	X		-6.0	
DLW	3/13/2014	11:13	140-1041-a-4	X		-7.3	
DLW	3/13/2014	11:14	140-1041-a-5	X		-3.5	
DLW	3/13/2014	11:31	140-1041-a-6	X		-6.4	
DLW	3/13/2014	11:32	140-1041-a-7	X		-5.0	
DLW	3/13/2014	11:32	140-1041-a-8	X		-6.4	
DLW	3/13/2014	11:32	140-1041-a-9	X		-7.1	
DLW	3/13/2014	11:33	140-1041-a-10	X		-4.7	
DLW	3/13/2014	11:39	140-1041-a-11	X		-5.5	
DLW	3/13/2014	11:40	140-1041-a-12	X		-4.8	
DLW	3/13/2014	11:41	140-1041-a-13	X		-5.9	
DLW	3/13/2014	11:41	140-1041-a-14	X		-4.8	
DLW	3/13/2014	11:41	140-1041-a-15	X		-4.9	
DLW	3/13/2014	11:42	140-1041-a-17	X		-6.4	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1041-1

Login Number: 1041

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 140-1051-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/26/2014 3:25 PM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/26/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Comments
No additional comments.

Receipt
The samples were received on 3/13/2014 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification #949 for 1,4-dioxane is shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

Client Sample ID: PCV-IA1-B12

Lab Sample ID: 140-1051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.13	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.6		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.30		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.091	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.096	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	11		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.41		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.082	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.16	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	71		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.17	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.27	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.36	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	30		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.55		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.70		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.27		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.6	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.73	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.77	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.64	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	4.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.1		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.39	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	26		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.40	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.54	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	130		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.75	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.1	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	73		4.9	0.23	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B12 (Continued)

Lab Sample ID: 140-1051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.9		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.2		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	4.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B12

Lab Sample ID: 140-1051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.078	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.13	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.4		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	3.6		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.37		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.5		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	10		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.44		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.075	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.68		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.14	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	230	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.20		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.50		0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.37	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	6.8		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.70		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.89		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.34		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.17	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	5.5		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	290		4.0	4.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.68	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.75	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.69	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	4.2		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	10		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.3		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	6.1		2.0	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B12 (Continued)

Lab Sample ID: 140-1051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.4		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.37	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.50	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	440	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.85		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	2.0		2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	17		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.4		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.9		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.5		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	21		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	550		7.5	7.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B12

Lab Sample ID: 140-1051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.086	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.11	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2,3-Dimethylpentane	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.57	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.25		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.25	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.34		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.034	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.063	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.13	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	94		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.12	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.25	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.26	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.61		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.18	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.7	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B12 (Continued)

Lab Sample ID: 140-1051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	2.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.52	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.52	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.53	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2,3-Dimethylpentane	0.93		0.82	0.82	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	6.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.89		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.10	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.44	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	180		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.51	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.0	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.91	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.1		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.76	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.92	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.8		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB-5

Lab Sample ID: 140-1051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.063	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.090	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.32	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.054	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.27		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.049	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.062	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	15		2.0	2.0	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB-5 (Continued)

Lab Sample ID: 140-1051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptane	0.095	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.20	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.63		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.075	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.61		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.42	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.94	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.22	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.1	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.86		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.15	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.98	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.21	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	28		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.39	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.70	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.8	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.2		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.98		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.33	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB-6

Lab Sample ID: 140-1051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.063	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.085	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.11	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.32	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.28		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.9		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.32		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.059	J *	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.15	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB-6 (Continued)

Lab Sample ID: 140-1051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.66		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.078	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	16		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.087	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.69		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	4.3		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.31		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.10	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.37		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.31	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.51	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.53	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.94	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	6.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.0		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	12		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.0		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.23	J *	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.46	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.27	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	29		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.38	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.43	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	2.4		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	15		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.45	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.69	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-IA1-B12
Date Collected: 03/12/14 14:24
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 00:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/18/14 00:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 00:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 00:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 00:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 00:00	1
1,2,4-Trimethylbenzene	**0.15**	**J**	0.20	0.063	ppb v/v			03/18/14 00:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 00:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 00:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 00:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 00:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 00:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:00	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 00:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:00	1
1,4-Dichlorobenzene	**0.13**	**J**	0.20	0.064	ppb v/v			03/18/14 00:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 00:00	1
2,2,4-Trimethylpentane	**0.14**	**J**	0.50	0.039	ppb v/v			03/18/14 00:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
2-Butanone (MEK)	**0.55**	**J**	1.0	0.20	ppb v/v			03/18/14 00:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 00:00	1
2-Methylbutane	**1.6**		0.50	0.031	ppb v/v			03/18/14 00:00	1
2-Methylpentane	**0.30**		0.20	0.20	ppb v/v			03/18/14 00:00	1
4-Ethyltoluene	**0.091**	**J**	0.40	0.066	ppb v/v			03/18/14 00:00	1
4-Methyl-2-pentanone (MIBK)	**0.096**	**J**	0.50	0.045	ppb v/v			03/18/14 00:00	1
Acetone	**11**		5.0	1.4	ppb v/v			03/18/14 00:00	1
Benzene	**0.41**		0.20	0.056	ppb v/v			03/18/14 00:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 00:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 00:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 00:00	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 00:00	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 00:00	1
Carbon tetrachloride	**0.074**	**J**	0.20	0.038	ppb v/v			03/18/14 00:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 00:00	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 00:00	1
Chloroform	**0.082**	**J**	0.20	0.038	ppb v/v			03/18/14 00:00	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/18/14 00:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 00:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 00:00	1
Cyclohexane	**0.16**	**J**	0.50	0.040	ppb v/v			03/18/14 00:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 00:00	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/18/14 00:00	1
Ethanol	**71**		2.0	2.0	ppb v/v			03/18/14 00:00	1
Ethylbenzene	**0.17**	**J**	0.20	0.068	ppb v/v			03/18/14 00:00	1
Heptane	**0.27**	**J**	0.50	0.047	ppb v/v			03/18/14 00:00	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 00:00	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-IA1-B12
Date Collected: 03/12/14 14:24
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**0.36**	**J**	0.50	0.032	ppb v/v			03/18/14 00:00	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 00:00	1
Isopropyl alcohol	**30**		2.0	0.094	ppb v/v			03/18/14 00:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 00:00	1
Methylene Chloride	**0.55**		0.50	0.13	ppb v/v			03/18/14 00:00	1
m-Xylene & p-Xylene	**0.70**		0.20	0.12	ppb v/v			03/18/14 00:00	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 00:00	1
o-Xylene	**0.27**		0.20	0.061	ppb v/v			03/18/14 00:00	1
Propene	**2.6**	**cn**	0.50	0.077	ppb v/v			03/18/14 00:00	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 00:00	1
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/18/14 00:00	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 00:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
Toluene	**1.2**		0.20	0.12	ppb v/v			03/18/14 00:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 00:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 00:00	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 00:00	1
Trichlorofluoromethane	**0.24**		0.20	0.024	ppb v/v			03/18/14 00:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 00:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 00:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/18/14 00:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 00:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 00:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 00:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 00:00	1
1,2,4-Trimethylbenzene	**0.73**	**J**	0.98	0.31	ug/m3			03/18/14 00:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 00:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 00:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 00:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 00:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 00:00	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 00:00	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 00:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 00:00	1
1,4-Dichlorobenzene	**0.77**	**J**	1.2	0.38	ug/m3			03/18/14 00:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 00:00	1
2,2,4-Trimethylpentane	**0.64**	**J**	2.3	0.18	ug/m3			03/18/14 00:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 00:00	1
2-Butanone (MEK)	**1.6**	**J**	2.9	0.59	ug/m3			03/18/14 00:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 00:00	1
2-Methylbutane	**4.8**		1.5	0.091	ug/m3			03/18/14 00:00	1
2-Methylpentane	**1.1**		0.70	0.70	ug/m3			03/18/14 00:00	1
4-Ethyltoluene	**0.45**	**J**	2.0	0.32	ug/m3			03/18/14 00:00	1
4-Methyl-2-pentanone (MIBK)	**0.39**	**J**	2.0	0.18	ug/m3			03/18/14 00:00	1

Client Sample ID: PCV-IA1-B12

Lab Sample ID: 140-1051-1

Date Collected: 03/12/14 14:24

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**26**		12	3.3	ug/m3			03/18/14 00:00	1
Benzene	**1.3**		0.64	0.18	ug/m3			03/18/14 00:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 00:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 00:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 00:00	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 00:00	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 00:00	1
Carbon tetrachloride	**0.47**	**J**	1.3	0.24	ug/m3			03/18/14 00:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 00:00	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 00:00	1
Chloroform	**0.40**	**J**	0.98	0.19	ug/m3			03/18/14 00:00	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/18/14 00:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 00:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 00:00	1
Cyclohexane	**0.54**	**J**	1.7	0.14	ug/m3			03/18/14 00:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 00:00	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 00:00	1
Ethanol	**130**		3.8	3.8	ug/m3			03/18/14 00:00	1
Ethylbenzene	**0.75**	**J**	0.87	0.30	ug/m3			03/18/14 00:00	1
Heptane	**1.1**	**J**	2.0	0.19	ug/m3			03/18/14 00:00	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 00:00	1
Hexane	**1.3**	**J**	1.8	0.11	ug/m3			03/18/14 00:00	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 00:00	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 00:00	1
Isopropyl alcohol	**73**		4.9	0.23	ug/m3			03/18/14 00:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 00:00	1
Methylene Chloride	**1.9**		1.7	0.45	ug/m3			03/18/14 00:00	1
m-Xylene & p-Xylene	**3.0**		0.87	0.52	ug/m3			03/18/14 00:00	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 00:00	1
o-Xylene	**1.2**		0.87	0.26	ug/m3			03/18/14 00:00	1
Propene	**4.4**	**cn**	0.86	0.13	ug/m3			03/18/14 00:00	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 00:00	1
Tetrachloroethene	**1.0**	**J**	1.4	0.27	ug/m3			03/18/14 00:00	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 00:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 00:00	1
Toluene	**4.5**		0.75	0.45	ug/m3			03/18/14 00:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 00:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 00:00	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 00:00	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/18/14 00:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/18/14 00:00*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 00:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.078**	**J**	0.20	0.031	ppb v/v			03/18/14 00:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 00:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 00:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 00:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 00:45	1
1,2,4-Trimethylbenzene	**0.14**	**J**	0.20	0.063	ppb v/v			03/18/14 00:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 00:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 00:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 00:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 00:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 00:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 00:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:45	1
1,4-Dichlorobenzene	**0.13**	**J**	0.20	0.064	ppb v/v			03/18/14 00:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 00:45	1
2,2,4-Trimethylpentane	**0.15**	**J**	0.50	0.039	ppb v/v			03/18/14 00:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
2-Butanone (MEK)	**1.4**		1.0	0.20	ppb v/v			03/18/14 00:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 00:45	1
2-Methylbutane	**3.6**		0.50	0.031	ppb v/v			03/18/14 00:45	1
2-Methylpentane	**0.37**		0.20	0.20	ppb v/v			03/18/14 00:45	1
4-Ethyltoluene	**0.10**	**J**	0.40	0.066	ppb v/v			03/18/14 00:45	1
4-Methyl-2-pentanone (MIBK)	**1.5**		0.50	0.045	ppb v/v			03/18/14 00:45	1
Acetone	**10**		5.0	1.4	ppb v/v			03/18/14 00:45	1
Benzene	**0.44**		0.20	0.056	ppb v/v			03/18/14 00:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 00:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 00:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 00:45	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 00:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 00:45	1
Carbon tetrachloride	**0.074**	**J**	0.20	0.038	ppb v/v			03/18/14 00:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 00:45	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 00:45	1
Chloroform	**0.075**	**J**	0.20	0.038	ppb v/v			03/18/14 00:45	1
Chloromethane	**0.68**		0.50	0.16	ppb v/v			03/18/14 00:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 00:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 00:45	1
Cyclohexane	**0.14**	**J**	0.50	0.040	ppb v/v			03/18/14 00:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 00:45	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/18/14 00:45	1
Ethanol	**230**	**E**	2.0	2.0	ppb v/v			03/18/14 00:45	1
Ethylbenzene	**0.20**		0.20	0.068	ppb v/v			03/18/14 00:45	1
Heptane	**0.50**		0.50	0.047	ppb v/v			03/18/14 00:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 00:45	1
Hexane	**0.37**	**J**	0.50	0.032	ppb v/v			03/18/14 00:45	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 00:45	1
Isopropyl alcohol	**6.8**		2.0	0.094	ppb v/v			03/18/14 00:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 00:45	1
Methylene Chloride	**0.70**		0.50	0.13	ppb v/v			03/18/14 00:45	1
m-Xylene & p-Xylene	**0.89**		0.20	0.12	ppb v/v			03/18/14 00:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 00:45	1
o-Xylene	**0.34**		0.20	0.061	ppb v/v			03/18/14 00:45	1
Propene	**2.2**	**cn**	0.50	0.077	ppb v/v			03/18/14 00:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 00:45	1
Tetrachloroethene	**0.17**	**J**	0.20	0.040	ppb v/v			03/18/14 00:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 00:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
Toluene	**5.5**		0.20	0.12	ppb v/v			03/18/14 00:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 00:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 00:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 00:45	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/18/14 00:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 00:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 00:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 00:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.60**	**J**	1.5	0.24	ug/m3			03/18/14 00:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 00:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 00:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 00:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 00:45	1
1,2,4-Trimethylbenzene	**0.68**	**J**	0.98	0.31	ug/m3			03/18/14 00:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 00:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 00:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 00:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 00:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 00:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 00:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 00:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 00:45	1
1,4-Dichlorobenzene	**0.75**	**J**	1.2	0.38	ug/m3			03/18/14 00:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 00:45	1
2,2,4-Trimethylpentane	**0.69**	**J**	2.3	0.18	ug/m3			03/18/14 00:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 00:45	1
2-Butanone (MEK)	**4.2**		2.9	0.59	ug/m3			03/18/14 00:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 00:45	1
2-Methylbutane	**10**		1.5	0.091	ug/m3			03/18/14 00:45	1
2-Methylpentane	**1.3**		0.70	0.70	ug/m3			03/18/14 00:45	1
4-Ethyltoluene	**0.51**	**J**	2.0	0.32	ug/m3			03/18/14 00:45	1
4-Methyl-2-pentanone (MIBK)	**6.1**		2.0	0.18	ug/m3			03/18/14 00:45	1
Acetone	**25**		12	3.3	ug/m3			03/18/14 00:45	1

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.4**		0.64	0.18	ug/m3			03/18/14 00:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 00:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 00:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 00:45	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 00:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 00:45	1
Carbon tetrachloride	**0.46**	**J**	1.3	0.24	ug/m3			03/18/14 00:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 00:45	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 00:45	1
Chloroform	**0.37**	**J**	0.98	0.19	ug/m3			03/18/14 00:45	1
Chloromethane	**1.4**		1.0	0.33	ug/m3			03/18/14 00:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 00:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 00:45	1
Cyclohexane	**0.50**	**J**	1.7	0.14	ug/m3			03/18/14 00:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 00:45	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 00:45	1
Ethanol	**440**	**E**	3.8	3.8	ug/m3			03/18/14 00:45	1
Ethylbenzene	**0.85**		0.87	0.30	ug/m3			03/18/14 00:45	1
Heptane	**2.0**		2.0	0.19	ug/m3			03/18/14 00:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 00:45	1
Hexane	**1.3**	**J**	1.8	0.11	ug/m3			03/18/14 00:45	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 00:45	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 00:45	1
Isopropyl alcohol	**17**		4.9	0.23	ug/m3			03/18/14 00:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 00:45	1
Methylene Chloride	**2.4**		1.7	0.45	ug/m3			03/18/14 00:45	1
m-Xylene & p-Xylene	**3.9**		0.87	0.52	ug/m3			03/18/14 00:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 00:45	1
o-Xylene	**1.5**		0.87	0.26	ug/m3			03/18/14 00:45	1
Propene	**3.8**	**cn**	0.86	0.13	ug/m3			03/18/14 00:45	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 00:45	1
Tetrachloroethene	**1.1**	**J**	1.4	0.27	ug/m3			03/18/14 00:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 00:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 00:45	1
Toluene	**21**		0.75	0.45	ug/m3			03/18/14 00:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 00:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 00:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 00:45	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/18/14 00:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 00:45*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**290**		4.0	4.0	ppb v/v			03/18/14 08:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**550**		7.5	7.5	ug/m3			03/18/14 08:20	1

Client Sample ID: PCV-IA2-B12

Lab Sample ID: 140-1051-2

Date Collected: 03/12/14 13:50

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		60 - 140		03/18/14 08:20	1

Client Sample ID: PCV-IA3-B12

Lab Sample ID: 140-1051-3

Date Collected: 03/12/14 15:19

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 01:30	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/18/14 01:30	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 01:30	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 01:30	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 01:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 01:30	1
1,2,4-Trimethylbenzene	**0.11**	**J**	0.20	0.063	ppb v/v			03/18/14 01:30	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 01:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 01:30	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 01:30	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 01:30	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 01:30	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 01:30	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 01:30	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 01:30	1
1,4-Dichlorobenzene	**0.086**	**J**	0.20	0.064	ppb v/v			03/18/14 01:30	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 01:30	1
2,2,4-Trimethylpentane	**0.11**	**J**	0.50	0.039	ppb v/v			03/18/14 01:30	1
2,3-Dimethylpentane	**0.23**		0.20	0.20	ppb v/v			03/18/14 01:30	1
2-Butanone (MEK)	**0.57**	**J**	1.0	0.20	ppb v/v			03/18/14 01:30	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 01:30	1
2-Methylbutane	**2.1**		0.50	0.031	ppb v/v			03/18/14 01:30	1
2-Methylpentane	**0.25**		0.20	0.20	ppb v/v			03/18/14 01:30	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 01:30	1
4-Methyl-2-pentanone (MIBK)	**0.25**	**J**	0.50	0.045	ppb v/v			03/18/14 01:30	1
Acetone	**5.5**		5.0	1.4	ppb v/v			03/18/14 01:30	1
Benzene	**0.34**		0.20	0.056	ppb v/v			03/18/14 01:30	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 01:30	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 01:30	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 01:30	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 01:30	1
Carbon disulfide	**0.034**	**J**	0.50	0.031	ppb v/v			03/18/14 01:30	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/18/14 01:30	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 01:30	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 01:30	1
Chloroform	**0.063**	**J**	0.20	0.038	ppb v/v			03/18/14 01:30	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/18/14 01:30	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12
Date Collected: 03/12/14 15:19
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 01:30	1
Cyclohexane	**0.13**	**J**	0.50	0.040	ppb v/v			03/18/14 01:30	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 01:30	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/18/14 01:30	1
Ethanol	**94**		2.0	2.0	ppb v/v			03/18/14 01:30	1
Ethylbenzene	**0.12**	**J**	0.20	0.068	ppb v/v			03/18/14 01:30	1
Heptane	**0.25**	**J**	0.50	0.047	ppb v/v			03/18/14 01:30	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 01:30	1
Hexane	**0.26**	**J**	0.50	0.032	ppb v/v			03/18/14 01:30	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 01:30	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 01:30	1
Isopropyl alcohol	**5.9**		2.0	0.094	ppb v/v			03/18/14 01:30	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 01:30	1
Methylene Chloride	**0.61**		0.50	0.13	ppb v/v			03/18/14 01:30	1
m-Xylene & p-Xylene	**0.48**		0.20	0.12	ppb v/v			03/18/14 01:30	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 01:30	1
o-Xylene	**0.18**	**J**	0.20	0.061	ppb v/v			03/18/14 01:30	1
Propene	**1.7**	**cn**	0.50	0.077	ppb v/v			03/18/14 01:30	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 01:30	1
Tetrachloroethene	**0.14**	**J**	0.20	0.040	ppb v/v			03/18/14 01:30	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 01:30	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 01:30	1
Toluene	**2.3**		0.20	0.12	ppb v/v			03/18/14 01:30	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 01:30	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 01:30	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 01:30	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/18/14 01:30	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 01:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 01:30	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**	**J**	1.5	0.24	ug/m3			03/18/14 01:30	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 01:30	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 01:30	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 01:30	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 01:30	1
1,2,4-Trimethylbenzene	**0.52**	**J**	0.98	0.31	ug/m3			03/18/14 01:30	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 01:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 01:30	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 01:30	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 01:30	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 01:30	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 01:30	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 01:30	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 01:30	1
1,4-Dichlorobenzene	**0.52**	**J**	1.2	0.38	ug/m3			03/18/14 01:30	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12
Lab Sample ID: 140-1051-3
Date Collected: 03/12/14 15:19
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	**0.53**	**J**	2.3	0.18	ug/m3			03/18/14 01:30	1
2,3-Dimethylpentane	**0.93**		0.82	0.82	ug/m3			03/18/14 01:30	1
2-Butanone (MEK)	**1.7**	**J**	2.9	0.59	ug/m3			03/18/14 01:30	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 01:30	1
2-Methylbutane	**6.1**		1.5	0.091	ug/m3			03/18/14 01:30	1
2-Methylpentane	**0.89**		0.70	0.70	ug/m3			03/18/14 01:30	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 01:30	1
4-Methyl-2-pentanone (MIBK)	**1.0**	**J**	2.0	0.18	ug/m3			03/18/14 01:30	1
Acetone	**13**		12	3.3	ug/m3			03/18/14 01:30	1
Benzene	**1.1**		0.64	0.18	ug/m3			03/18/14 01:30	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 01:30	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 01:30	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 01:30	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 01:30	1
Carbon disulfide	**0.10**	**J**	1.6	0.097	ug/m3			03/18/14 01:30	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/18/14 01:30	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 01:30	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 01:30	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/18/14 01:30	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/18/14 01:30	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 01:30	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 01:30	1
Cyclohexane	**0.44**	**J**	1.7	0.14	ug/m3			03/18/14 01:30	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 01:30	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/18/14 01:30	1
Ethanol	**180**		3.8	3.8	ug/m3			03/18/14 01:30	1
Ethylbenzene	**0.51**	**J**	0.87	0.30	ug/m3			03/18/14 01:30	1
Heptane	**1.0**	**J**	2.0	0.19	ug/m3			03/18/14 01:30	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 01:30	1
Hexane	**0.91**	**J**	1.8	0.11	ug/m3			03/18/14 01:30	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 01:30	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 01:30	1
Isopropyl alcohol	**14**		4.9	0.23	ug/m3			03/18/14 01:30	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 01:30	1
Methylene Chloride	**2.1**		1.7	0.45	ug/m3			03/18/14 01:30	1
m-Xylene & p-Xylene	**2.1**		0.87	0.52	ug/m3			03/18/14 01:30	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 01:30	1
o-Xylene	**0.76**	**J**	0.87	0.26	ug/m3			03/18/14 01:30	1
Propene	**3.0**	**cn**	0.86	0.13	ug/m3			03/18/14 01:30	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 01:30	1
Tetrachloroethene	**0.92**	**J**	1.4	0.27	ug/m3			03/18/14 01:30	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 01:30	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 01:30	1
Toluene	**8.8**		0.75	0.45	ug/m3			03/18/14 01:30	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 01:30	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 01:30	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 01:30	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12

Lab Sample ID: 140-1051-3

Date Collected: 03/12/14 15:19

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 01:30*	*1*

Client Sample ID: PCV-AMB-5

Lab Sample ID: 140-1051-4

Date Collected: 03/12/14 14:55

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 02:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.063**	**J**	0.20	0.031	ppb v/v			03/18/14 02:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 02:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 02:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 02:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 02:15	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 02:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 02:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 02:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 02:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 02:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 02:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 02:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 02:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 02:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 02:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 02:15	1
2,2,4-Trimethylpentane	**0.090**	**J**	0.50	0.039	ppb v/v			03/18/14 02:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
2-Butanone (MEK)	**0.32**	**J**	1.0	0.20	ppb v/v			03/18/14 02:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 02:15	1
2-Methylbutane	**1.1**		0.50	0.031	ppb v/v			03/18/14 02:15	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 02:15	1
4-Methyl-2-pentanone (MIBK)	**0.054**	**J**	0.50	0.045	ppb v/v			03/18/14 02:15	1
Acetone	**3.0**	**J**	5.0	1.4	ppb v/v			03/18/14 02:15	1
Benzene	**0.27**		0.20	0.056	ppb v/v			03/18/14 02:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 02:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 02:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 02:15	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 02:15	1
Carbon disulfide	**0.049**	**J**	0.50	0.031	ppb v/v			03/18/14 02:15	1
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/18/14 02:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 02:15	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 02:15	1

Client Sample ID: PCV-AMB-5
Date Collected: 03/12/14 14:55
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 02:15	1
Chloromethane	**0.47**	**J**	0.50	0.16	ppb v/v			03/18/14 02:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 02:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 02:15	1
Cyclohexane	**0.062**	**J**	0.50	0.040	ppb v/v			03/18/14 02:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 02:15	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/18/14 02:15	1
Ethanol	**15**		2.0	2.0	ppb v/v			03/18/14 02:15	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 02:15	1
Heptane	**0.095**	**J**	0.50	0.047	ppb v/v			03/18/14 02:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 02:15	1
Hexane	**0.20**	**J**	0.50	0.032	ppb v/v			03/18/14 02:15	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 02:15	1
Isopropyl alcohol	**1.1**	**J**	2.0	0.094	ppb v/v			03/18/14 02:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 02:15	1
Methylene Chloride	**0.63**		0.50	0.13	ppb v/v			03/18/14 02:15	1
m-Xylene & p-Xylene	**0.23**		0.20	0.12	ppb v/v			03/18/14 02:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 02:15	1
o-Xylene	**0.075**	**J**	0.20	0.061	ppb v/v			03/18/14 02:15	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/18/14 02:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 02:15	1
Tetrachloroethene	**0.12**	**J**	0.20	0.040	ppb v/v			03/18/14 02:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 02:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
Toluene	**0.61**		0.20	0.12	ppb v/v			03/18/14 02:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 02:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 02:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 02:15	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/18/14 02:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 02:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 02:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.48**	**J**	1.5	0.24	ug/m3			03/18/14 02:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 02:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 02:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 02:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 02:15	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 02:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 02:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 02:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 02:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 02:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 02:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 02:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 02:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-5
Date Collected: 03/12/14 14:55
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 02:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 02:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 02:15	1
2,2,4-Trimethylpentane	**0.42**	**J**	2.3	0.18	ug/m3			03/18/14 02:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 02:15	1
2-Butanone (MEK)	**0.94**	**J**	2.9	0.59	ug/m3			03/18/14 02:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 02:15	1
2-Methylbutane	**3.2**		1.5	0.091	ug/m3			03/18/14 02:15	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 02:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 02:15	1
4-Methyl-2-pentanone (MIBK)	**0.22**	**J**	2.0	0.18	ug/m3			03/18/14 02:15	1
Acetone	**7.1**	**J**	12	3.3	ug/m3			03/18/14 02:15	1
Benzene	**0.86**		0.64	0.18	ug/m3			03/18/14 02:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 02:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 02:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 02:15	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 02:15	1
Carbon disulfide	**0.15**	**J**	1.6	0.097	ug/m3			03/18/14 02:15	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/18/14 02:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 02:15	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 02:15	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 02:15	1
Chloromethane	**0.98**	**J**	1.0	0.33	ug/m3			03/18/14 02:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 02:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 02:15	1
Cyclohexane	**0.21**	**J**	1.7	0.14	ug/m3			03/18/14 02:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 02:15	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/18/14 02:15	1
Ethanol	**28**		3.8	3.8	ug/m3			03/18/14 02:15	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 02:15	1
Heptane	**0.39**	**J**	2.0	0.19	ug/m3			03/18/14 02:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 02:15	1
Hexane	**0.70**	**J**	1.8	0.11	ug/m3			03/18/14 02:15	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 02:15	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 02:15	1
Isopropyl alcohol	**2.8**	**J**	4.9	0.23	ug/m3			03/18/14 02:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 02:15	1
Methylene Chloride	**2.2**		1.7	0.45	ug/m3			03/18/14 02:15	1
m-Xylene & p-Xylene	**0.98**		0.87	0.52	ug/m3			03/18/14 02:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 02:15	1
o-Xylene	**0.33**	**J**	0.87	0.26	ug/m3			03/18/14 02:15	1
Propene	**2.1**	**cn**	0.86	0.13	ug/m3			03/18/14 02:15	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 02:15	1
Tetrachloroethene	**0.80**	**J**	1.4	0.27	ug/m3			03/18/14 02:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 02:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 02:15	1
Toluene	**2.3**		0.75	0.45	ug/m3			03/18/14 02:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 02:15	1

Client Sample ID: PCV-AMB-5

Lab Sample ID: 140-1051-4

Date Collected: 03/12/14 14:55

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 02:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 02:15	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/18/14 02:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 02:15*	*1*

Client Sample ID: PCV-AMB-6

Lab Sample ID: 140-1051-5

Date Collected: 03/12/14 15:02

Matrix: Air

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 03:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.073**	**J**	0.20	0.031	ppb v/v			03/18/14 03:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 03:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 03:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 03:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 03:01	1
1,2,4-Trimethylbenzene	**0.063**	**J**	0.20	0.063	ppb v/v			03/18/14 03:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 03:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 03:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 03:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 03:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 03:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 03:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:01	1
1,4-Dichlorobenzene	**0.085**	**J**	0.20	0.064	ppb v/v			03/18/14 03:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 03:01	1
2,2,4-Trimethylpentane	**0.11**	**J**	0.50	0.039	ppb v/v			03/18/14 03:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
2-Butanone (MEK)	**0.32**	**J**	1.0	0.20	ppb v/v			03/18/14 03:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 03:01	1
2-Methylbutane	**2.1**		0.50	0.031	ppb v/v			03/18/14 03:01	1
2-Methylpentane	**0.28**		0.20	0.20	ppb v/v			03/18/14 03:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 03:01	1
4-Methyl-2-pentanone (MIBK)	**2.9**		0.50	0.045	ppb v/v			03/18/14 03:01	1
Acetone	**3.6**	**J**	5.0	1.4	ppb v/v			03/18/14 03:01	1
Benzene	**0.32**		0.20	0.056	ppb v/v			03/18/14 03:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 03:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 03:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 03:01	1
Bromomethane	**0.059**	**J ***	0.20	0.032	ppb v/v			03/18/14 03:01	1
Carbon disulfide	**0.15**	**J**	0.50	0.031	ppb v/v			03/18/14 03:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-6
Lab Sample ID: 140-1051-5
Date Collected: 03/12/14 15:02
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/18/14 03:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 03:01	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 03:01	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 03:01	1
Chloromethane	**0.66**		0.50	0.16	ppb v/v			03/18/14 03:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 03:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 03:01	1
Cyclohexane	**0.078**	**J**	0.50	0.040	ppb v/v			03/18/14 03:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 03:01	1
Dichlorodifluoromethane	**0.53**		0.20	0.068	ppb v/v			03/18/14 03:01	1
Ethanol	**16**		2.0	2.0	ppb v/v			03/18/14 03:01	1
Ethylbenzene	**0.087**	**J**	0.20	0.068	ppb v/v			03/18/14 03:01	1
Heptane	**0.11**	**J**	0.50	0.047	ppb v/v			03/18/14 03:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 03:01	1
Hexane	**0.69**		0.50	0.032	ppb v/v			03/18/14 03:01	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 03:01	1
Isopropyl alcohol	**1.1**	**J**	2.0	0.094	ppb v/v			03/18/14 03:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 03:01	1
Methylene Chloride	**4.3**		0.50	0.13	ppb v/v			03/18/14 03:01	1
m-Xylene & p-Xylene	**0.31**		0.20	0.12	ppb v/v			03/18/14 03:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 03:01	1
o-Xylene	**0.10**	**J**	0.20	0.061	ppb v/v			03/18/14 03:01	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/18/14 03:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 03:01	1
Tetrachloroethene	**0.10**	**J**	0.20	0.040	ppb v/v			03/18/14 03:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 03:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
Toluene	**1.1**		0.20	0.12	ppb v/v			03/18/14 03:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 03:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 03:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 03:01	1
Trichlorofluoromethane	**0.37**		0.20	0.024	ppb v/v			03/18/14 03:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 03:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 03:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			03/18/14 03:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 03:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 03:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 03:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 03:01	1
1,2,4-Trimethylbenzene	**0.31**	**J**	0.98	0.31	ug/m3			03/18/14 03:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 03:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 03:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 03:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 03:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-6
Date Collected: 03/12/14 15:02
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 03:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 03:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 03:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 03:01	1
1,4-Dichlorobenzene	**0.51**	**J**	1.2	0.38	ug/m3			03/18/14 03:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 03:01	1
2,2,4-Trimethylpentane	**0.53**	**J**	2.3	0.18	ug/m3			03/18/14 03:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 03:01	1
2-Butanone (MEK)	**0.94**	**J**	2.9	0.59	ug/m3			03/18/14 03:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 03:01	1
2-Methylbutane	**6.2**		1.5	0.091	ug/m3			03/18/14 03:01	1
2-Methylpentane	**1.0**		0.70	0.70	ug/m3			03/18/14 03:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 03:01	1
4-Methyl-2-pentanone (MIBK)	**12**		2.0	0.18	ug/m3			03/18/14 03:01	1
Acetone	**8.5**	**J**	12	3.3	ug/m3			03/18/14 03:01	1
Benzene	**1.0**		0.64	0.18	ug/m3			03/18/14 03:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 03:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 03:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 03:01	1
Bromomethane	**0.23**	**J ***	0.78	0.12	ug/m3			03/18/14 03:01	1
Carbon disulfide	**0.46**	**J**	1.6	0.097	ug/m3			03/18/14 03:01	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/18/14 03:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 03:01	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 03:01	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 03:01	1
Chloromethane	**1.4**		1.0	0.33	ug/m3			03/18/14 03:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 03:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 03:01	1
Cyclohexane	**0.27**	**J**	1.7	0.14	ug/m3			03/18/14 03:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 03:01	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			03/18/14 03:01	1
Ethanol	**29**		3.8	3.8	ug/m3			03/18/14 03:01	1
Ethylbenzene	**0.38**	**J**	0.87	0.30	ug/m3			03/18/14 03:01	1
Heptane	**0.43**	**J**	2.0	0.19	ug/m3			03/18/14 03:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 03:01	1
Hexane	**2.4**		1.8	0.11	ug/m3			03/18/14 03:01	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 03:01	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 03:01	1
Isopropyl alcohol	**2.6**	**J**	4.9	0.23	ug/m3			03/18/14 03:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 03:01	1
Methylene Chloride	**15**		1.7	0.45	ug/m3			03/18/14 03:01	1
m-Xylene & p-Xylene	**1.4**		0.87	0.52	ug/m3			03/18/14 03:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 03:01	1
o-Xylene	**0.45**	**J**	0.87	0.26	ug/m3			03/18/14 03:01	1
Propene	**2.2**	**cn**	0.86	0.13	ug/m3			03/18/14 03:01	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 03:01	1
Tetrachloroethene	**0.69**	**J**	1.4	0.27	ug/m3			03/18/14 03:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 03:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-6
Lab Sample ID: 140-1051-5
Date Collected: 03/12/14 15:02
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 03:01	1
Toluene	**4.1**		0.75	0.45	ug/m3			03/18/14 03:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 03:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 03:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 03:01	1
Trichlorofluoromethane	**2.1**		1.1	0.13	ug/m3			03/18/14 03:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/18/14 03:01*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
140-1051-1	PCV-IA1-B12	99							
140-1051-2	PCV-IA2-B12	102							
140-1051-2 - DL	PCV-IA2-B12	106							
140-1051-3	PCV-IA3-B12	102							
140-1051-4	PCV-AMB-5	102							
140-1051-5	PCV-AMB-6	103							
LCS 140-967/1002	Lab Control Sample	108							
MB 140-967/5	Method Blank	103							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 17:11	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/17/14 17:11	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 17:11	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/17/14 17:11	1
Acetone	ND		5.0	1.4	ppb v/v			03/17/14 17:11	1
Benzene	ND		0.20	0.056	ppb v/v			03/17/14 17:11	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 17:11	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 17:11	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/17/14 17:11	1
Chloroform	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 17:11	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/17/14 17:11	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Ethanol	ND		2.0	2.0	ppb v/v			03/17/14 17:11	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Heptane	ND		0.50	0.047	ppb v/v			03/17/14 17:11	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 17:11	1
Hexane	ND		0.50	0.032	ppb v/v			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 17:11	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/17/14 17:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 17:11	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 17:11	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
Propene	ND		0.50	0.077	ppb v/v			03/17/14 17:11	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 17:11	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/17/14 17:11	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 17:11	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Toluene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 17:11	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/17/14 17:11	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 17:11	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/17/14 17:11	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 17:11	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 17:11	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/17/14 17:11	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 17:11	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/17/14 17:11	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/17/14 17:11	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/17/14 17:11	1
Acetone	ND		12	3.3	ug/m3			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/17/14 17:11	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 17:11	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 17:11	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 17:11	1
Bromomethane	ND		0.78	0.12	ug/m3			03/17/14 17:11	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 17:11	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/17/14 17:11	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 17:11	1
Chloroethane	ND		0.53	0.092	ug/m3			03/17/14 17:11	1
Chloroform	ND		0.98	0.19	ug/m3			03/17/14 17:11	1
Chloromethane	ND		1.0	0.33	ug/m3			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 17:11	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/17/14 17:11	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/17/14 17:11	1
Ethanol	ND		3.8	3.8	ug/m3			03/17/14 17:11	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/17/14 17:11	1
Heptane	ND		2.0	0.19	ug/m3			03/17/14 17:11	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 17:11	1
Hexane	ND		1.8	0.11	ug/m3			03/17/14 17:11	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 17:11	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 17:11	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/17/14 17:11	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 17:11	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/17/14 17:11	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 17:11	1
o-Xylene	ND		0.87	0.26	ug/m3			03/17/14 17:11	1
Propene	ND		0.86	0.13	ug/m3			03/17/14 17:11	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 17:11	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/17/14 17:11	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 17:11	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 17:11	1
Toluene	ND		0.75	0.45	ug/m3			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 17:11	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 17:11	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/17/14 17:11	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/17/14 17:11*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Air - GC/MS VOA

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1051-1	PCV-IA1-B12	Total/NA	Air	TO-15	
140-1051-2	PCV-IA2-B12	Total/NA	Air	TO-15	
140-1051-2 - DL	PCV-IA2-B12	Total/NA	Air	TO-15	
140-1051-3	PCV-IA3-B12	Total/NA	Air	TO-15	
140-1051-4	PCV-AMB-5	Total/NA	Air	TO-15	
140-1051-5	PCV-AMB-6	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: PCV-IA1-B12

Lab Sample ID: 140-1051-1

Date Collected: 03/12/14 14:24

Matrix: Air

Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 00:00	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B12

Lab Sample ID: 140-1051-2

Date Collected: 03/12/14 13:50

Matrix: Air

Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 00:45	AFB	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	967	03/18/14 08:20	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B12

Lab Sample ID: 140-1051-3

Date Collected: 03/12/14 15:19

Matrix: Air

Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 01:30	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB-5

Lab Sample ID: 140-1051-4

Date Collected: 03/12/14 14:55

Matrix: Air

Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 02:15	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB-6

Lab Sample ID: 140-1051-5

Date Collected: 03/12/14 15:02

Matrix: Air

Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 03:01	AFB	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1051-1	PCV-IA1-B12	Air	03/12/14 14:24	03/13/14 10:25
140-1051-2	PCV-IA2-B12	Air	03/12/14 13:50	03/13/14 10:25
140-1051-3	PCV-IA3-B12	Air	03/12/14 15:19	03/13/14 10:25
140-1051-4	PCV-AMB-5	Air	03/12/14 14:55	03/13/14 10:25
140-1051-5	PCV-AMB-6	Air	03/12/14 15:02	03/13/14 10:25

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
PCV-IA1-B12	140-1051-1	99
PCV-IA2-B12	140-1051-2	102
PCV-IA2-B12 DL	140-1051-2 DL	106
PCV-IA3-B12	140-1051-3	102
PCV-AMB-5	140-1051-4	102
PCV-AMB-6	140-1051-5	103
	MB 140-967/5	103
	LCS 140-967/1002	108

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.28	114	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22	111	70-130	
1,1,2-Trichloroethane	2.00	2.11	106	70-130	
1,1-Dichloroethane	2.00	2.03	102	70-130	
1,1-Dichloroethene	2.00	2.07	104	70-130	
1,2,4-Trichlorobenzene	2.00	2.21	110	60-140	
1,2,4-Trimethylbenzene	2.00	2.40	120	70-130	
1,2-Dibromoethane (EDB)	2.00	2.19	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65	133	60-140	
1,2-Dichlorobenzene	2.00	2.33	117	70-130	
1,2-Dichloroethane	2.00	2.31	115	70-130	
1,2-Dichloropropane	2.00	1.97	99	70-130	
1,3,5-Trimethylbenzene	2.00	2.24	112	70-130	
1,3-Butadiene	2.00	2.43	122	60-140	
1,3-Dichlorobenzene	2.00	2.33	116	70-130	
1,4-Dichlorobenzene	2.00	2.31	115	70-130	
1,4-Dioxane	2.00	1.83	91	60-140	
2,2,4-Trimethylpentane	2.00	1.85	92	70-130	
2,3-Dimethylpentane	2.00	1.95	97	20-180	
2-Butanone (MEK)	2.00	1.63	82	60-140	
2-Hexanone	2.00	1.77	89	60-140	
2-Methylbutane	2.00	2.40	120	70-130	
2-Methylpentane	2.00	1.79	90	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.81	90	60-140	
Acetone	2.00	1.98 J	99	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.54	127	70-130	
Bromodichloromethane	2.00	2.31	116	70-130	
Bromoform	2.00	2.57	129	60-140	
Bromomethane	2.00	2.64	132	70-130	*
Carbon disulfide	2.00	2.07	103	70-130	
Carbon tetrachloride	2.00	2.43	121	70-130	
Chlorobenzene	2.00	2.16	108	70-130	
Chloroethane	2.00	2.65	133	70-130	*
Chloroform	2.00	2.25	112	70-130	
Chloromethane	2.00	2.20	110	60-140	
cis-1,2-Dichloroethene	2.00	1.99	99	70-130	
cis-1,3-Dichloropropene	2.00	2.19	110	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.99	100	70-130	
Dibromochloromethane	2.00	2.40	120	70-130	
Dichlorodifluoromethane	2.00	2.53	126	60-140	
Ethanol	10.0	10.8	108	20-180	
Ethylbenzene	2.00	2.25	112	70-130	
Heptane	2.00	2.03	101	70-130	
Hexachlorobutadiene	2.00	2.42	121	60-140	
Hexane	2.00	1.87	93	70-130	
Indane	2.00	2.34	117	20-180	
Indene	2.00	2.44	122	20-180	
Isopropyl alcohol	2.00	2.28	114	60-140	
Methyl tert-butyl ether	2.00	2.23	111	60-140	
Methylene Chloride	2.00	2.09	105	70-130	
m-Xylene & p-Xylene	4.00	4.73	118	70-130	
Naphthalene	2.00	2.51	125	40-140	
o-Xylene	2.00	2.27	114	70-130	
Propene	2.00	1.83	92	60-140	
Styrene	2.00	2.32	116	70-130	
Tetrachloroethene	2.00	2.11	106	70-130	
Tetrahydrofuran	2.00	1.65	82	60-140	
Thiophene	2.00	2.04	102	20-180	
Toluene	2.00	2.12	106	70-130	
trans-1,2-Dichloroethene	2.00	2.05	103	70-130	
trans-1,3-Dichloropropene	2.00	2.23	111	70-130	
Trichloroethene	2.00	1.99	99	70-130	
Trichlorofluoromethane	2.00	2.69	135	60-140	
Vinyl chloride	2.00	2.52	126	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab File ID: EMBC17.D Lab Sample ID: MB 140-967/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/17/2014 17:11

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014 14:10
PCV-IA1-B12	140-1051-1	EC17POS109.D	03/18/2014 00:00
PCV-IA2-B12	140-1051-2	EC17POS110.D	03/18/2014 00:45
PCV-IA3-B12	140-1051-3	EC17POS111.D	03/18/2014 01:30
PCV-AMB-5	140-1051-4	EC17POS112.D	03/18/2014 02:15
PCV-AMB-6	140-1051-5	EC17POS113.D	03/18/2014 03:01
PCV-IA2-B12 DL	140-1051-2 DL	EC17POS110R.D	03/18/2014 08:20

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab File ID: EBFBC17.D BFB Injection Date: 03/17/2014

Instrument ID: ME BFB Injection Time: 13:39

Analysis Batch No.: 967

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	56.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.3)1
176	95.0 - 101.0 % of mass 174	79.2	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-967/2	ECCVC17.D	03/17/2014	14:10
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014	14:10
	MB 140-967/5	EMBC17.D	03/17/2014	17:11
PCV-IA1-B12	140-1051-1	EC17POS109.D	03/18/2014	00:00
PCV-IA2-B12	140-1051-2	EC17POS110.D	03/18/2014	00:45
PCV-IA3-B12	140-1051-3	EC17POS111.D	03/18/2014	01:30
PCV-AMB-5	140-1051-4	EC17POS112.D	03/18/2014	02:15
PCV-AMB-6	140-1051-5	EC17POS113.D	03/18/2014	03:01
PCV-IA2-B12 DL	140-1051-2 DL	EC17POS110R.D	03/18/2014	08:20

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Sample No.: CCVIS 140-967/2 Date Analyzed: 03/17/2014 14:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC17.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194987	8.34	948363	10.58	841452	15.39
UPPER LIMIT		272982	8.67	1327708	10.91	1178033	15.72
LOWER LIMIT		116992	8.01	569018	10.25	504871	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-967/1002		194987	8.34	948363	10.58	841452	15.39
MB 140-967/5		189632	8.33	941923	10.57	834864	15.38
140-1051-1	PCV-IA1-B12	223125	8.33	1063499	10.57	951136	15.38
140-1051-2	PCV-IA2-B12	221427	8.33	1068073	10.57	948342	15.38
140-1051-3	PCV-IA3-B12	222178	8.33	1104747	10.57	956320	15.38
140-1051-4	PCV-AMB-5	216431	8.33	1023656	10.57	935459	15.38
140-1051-5	PCV-AMB-6	217593	8.33	1109843	10.57	977934	15.38
140-1051-2 DL	PCV-IA2-B12 DL	168115	8.33	795742	10.57	731192	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.15	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.13	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.55	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.6		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.30		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.091	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.096	J	0.50	0.045
67-64-1	Acetone	58.08	11		5.0	1.4
71-43-2	Benzene	78.11	0.41		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	0.082	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.16	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	71		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.17	J	0.20	0.068
142-82-5	Heptane	100.21	0.27	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.36	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	30		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.55		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.70		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.27		0.20	0.061
115-07-1	Propene	42.08	2.6	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.2		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.24		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.73	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.77	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.64	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.6	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	4.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.1		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.45	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.39	J	2.0	0.18
67-64-1	Acetone	58.08	26		12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.47	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	0.40	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.54	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	130		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.75	J	0.87	0.30
142-82-5	Heptane	100.21	1.1	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	73		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.9		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.0		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.2		0.87	0.26
115-07-1	Propene	42.08	4.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA1-B12 Lab Sample ID: 140-1051-1

Matrix: Air Lab File ID: EC17POS109.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:24

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D
Lims ID: 140-1051-A-1 Lab Sample ID: 140-1051-1
Client ID: PCV-IA1-B12
Sample Type: Client
Inject. Date: 18-Mar-2014 00:00:30 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-1
Misc. Info.: E031714,TO155,,140-0000525-014
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:18 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:27:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	223125	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1063499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	90	951136	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	86	821033	3.94	
7 Propene	41	3.319	3.309	0.010	73	57459	1.02	
8 Dichlorodifluoromethane	85	3.362	3.357	0.005	96	45595	0.1847	
9 Chloromethane	52	3.530	3.530	0.0	98	4599	0.2334	
17 Ethanol	31	4.317	4.317	0.0	98	635831	28.5	
19 2-Methylbutane	43	4.538	4.538	0.0	87	51266	0.6561	
21 Trichlorofluoromethane	101	4.748	4.743	0.005	95	24126	0.0974	
23 Acetone	58	4.867	4.878	-0.011	99	149628	4.43	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	96	1026845	11.8	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	63	4113	0.0268	
31 Methylene Chloride	84	5.794	5.789	0.005	77	14091	0.2210	
35 2-Methylpentane	43	6.598	6.603	-0.005	86	17565	0.1195	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	90	8093	0.2216	
40 Hexane	56	7.585	7.585	0.0	66	8632	0.1454	
43 Chloroform	83	8.340	8.356	-0.016	16	6299	0.0329	
49 Cyclohexane	69	9.979	9.984	-0.005	58	2508	0.0625	
48 Benzene	78	9.990	9.995	-0.005	95	34909	0.1631	
50 Carbon tetrachloride	117	10.000	10.017	-0.017	78	6082	0.0296	
53 Isooctane	57	10.777	10.783	-0.005	90	18144	0.0549	
54 n-Heptane	71	11.171	11.182	-0.011	73	8702	0.1074	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	77	4843	0.0384	
65 Toluene	91	13.398	13.403	-0.005	93	121688	0.4776	
73 Tetrachloroethene	129	14.546	14.552	-0.006	83	6538	0.0602	
76 Ethylbenzene	91	15.722	15.727	-0.005	89	22679	0.0694	
78 m-Xylene & p-Xylene	91	15.878	15.889	-0.011	99	71546	0.2786	
82 o-Xylene	91	16.407	16.412	-0.005	94	30298	0.1091	
88 4-Ethyltoluene	105	17.706	17.701	0.005	44	12723	0.0362	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	82	17266	0.0592	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
97 1,4-Dichlorobenzene	146	18.591	18.596	-0.005	85	9601	0.0514	

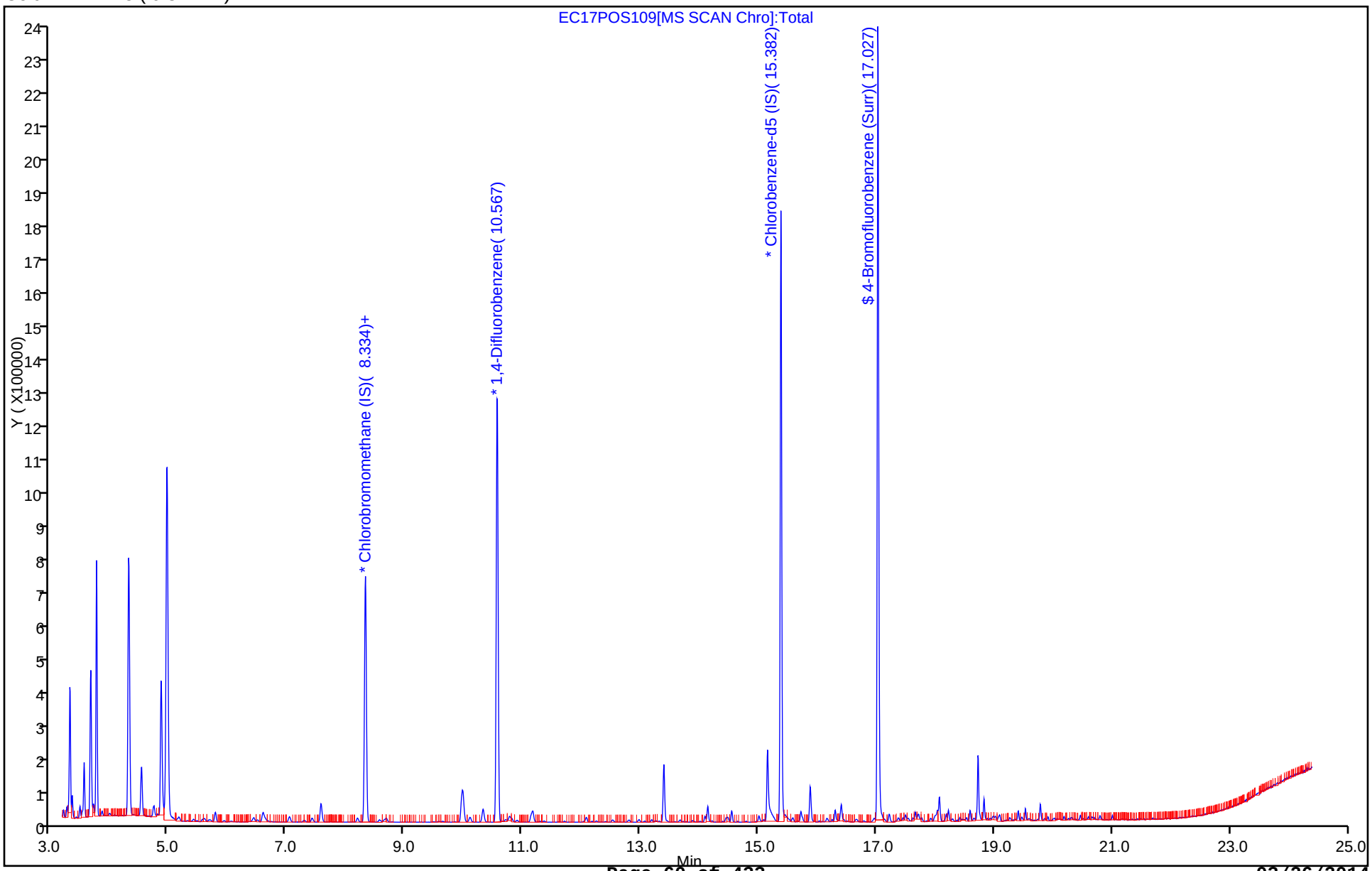
Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1	Worklist Smp#:	14
Client ID:	PCV-IA1-B12				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



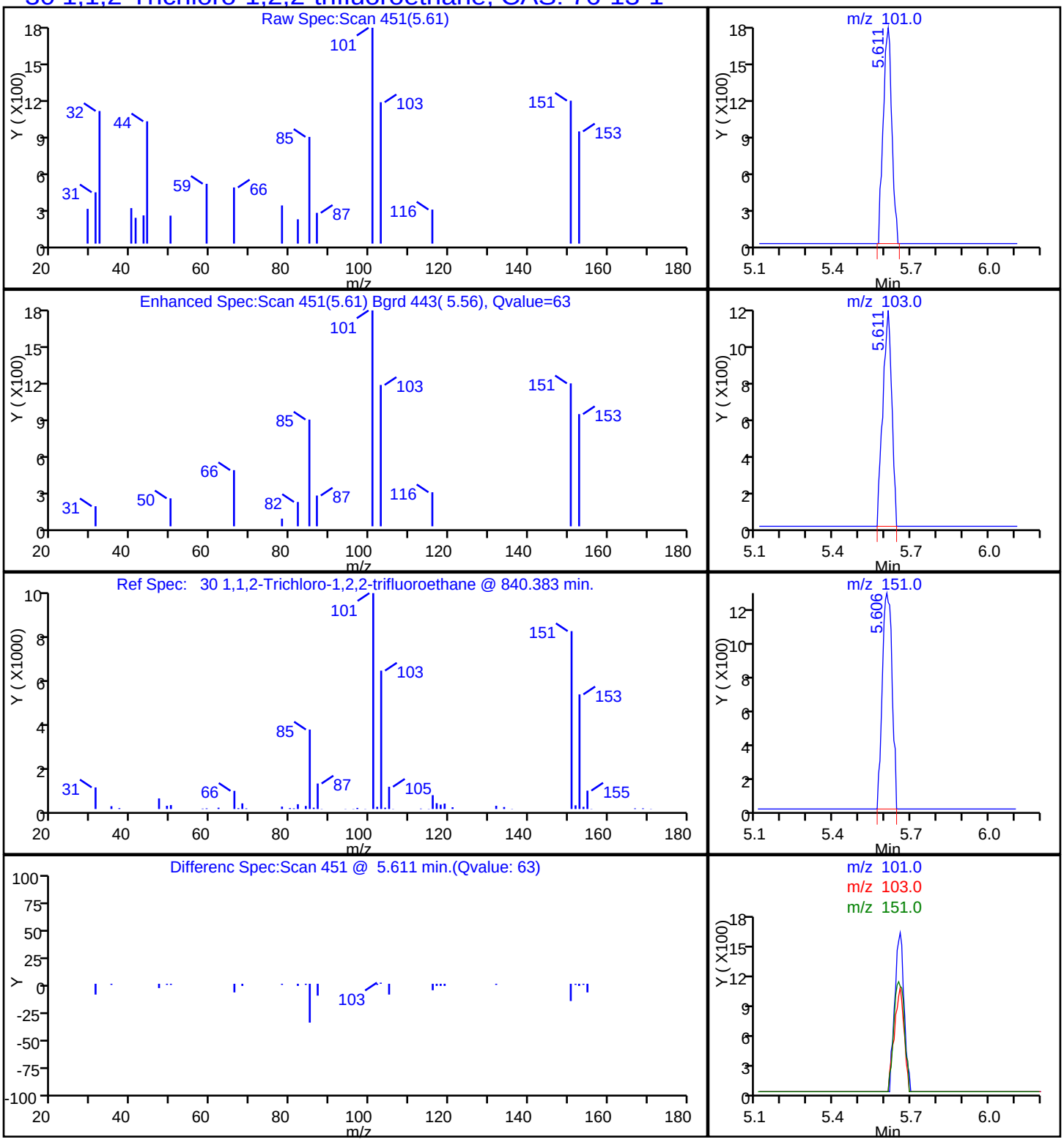
Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

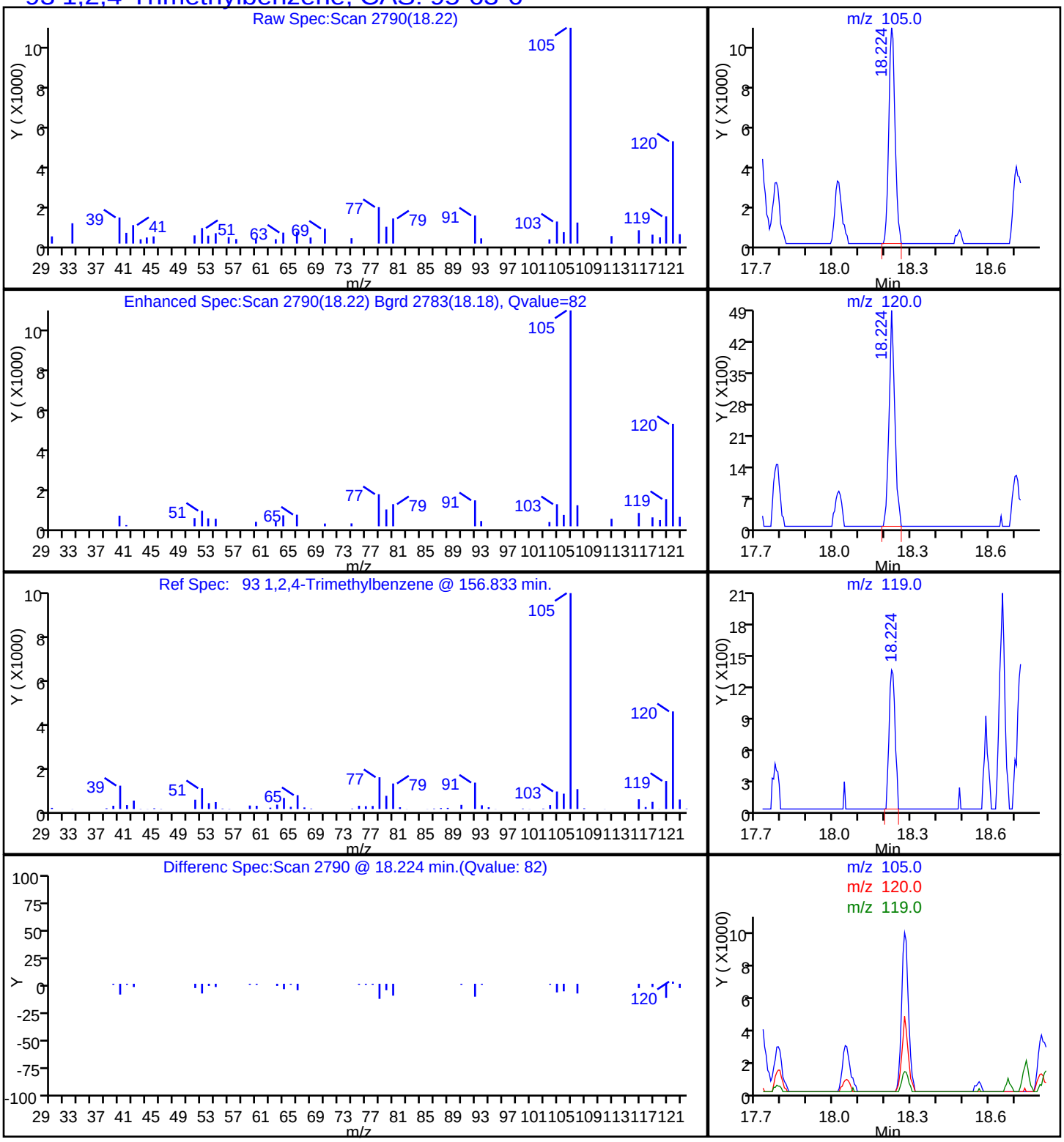


Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

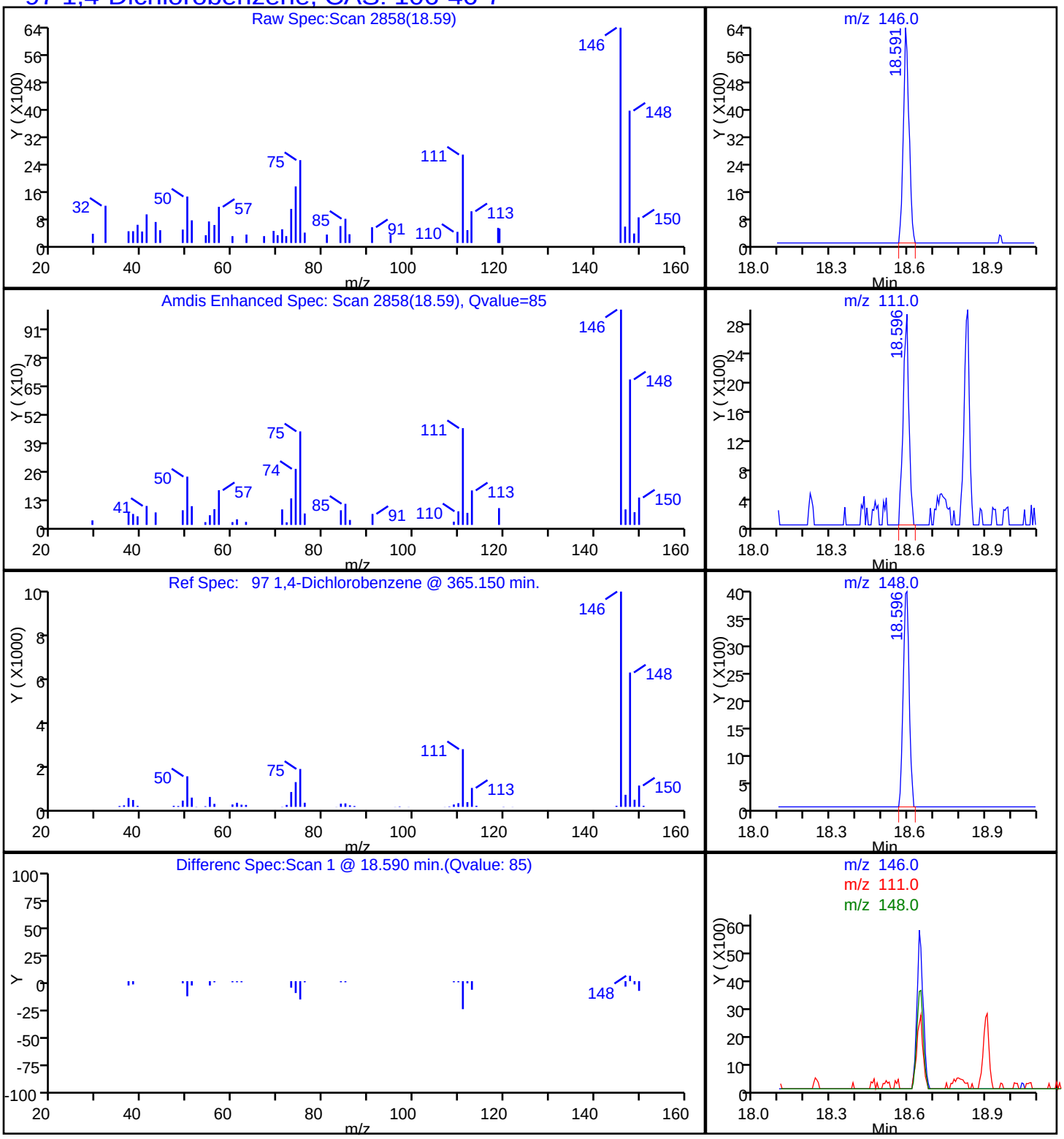


Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

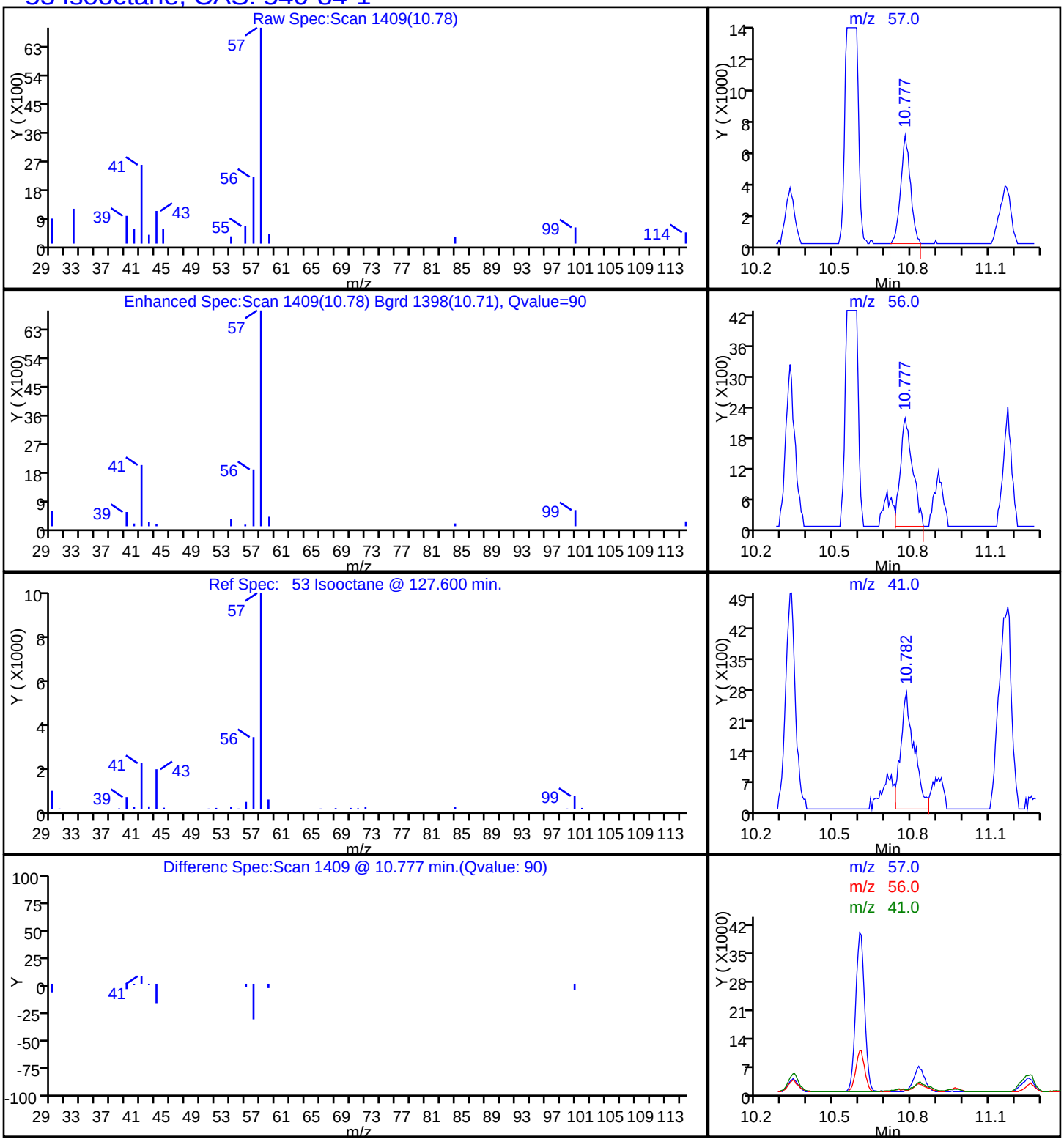
97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



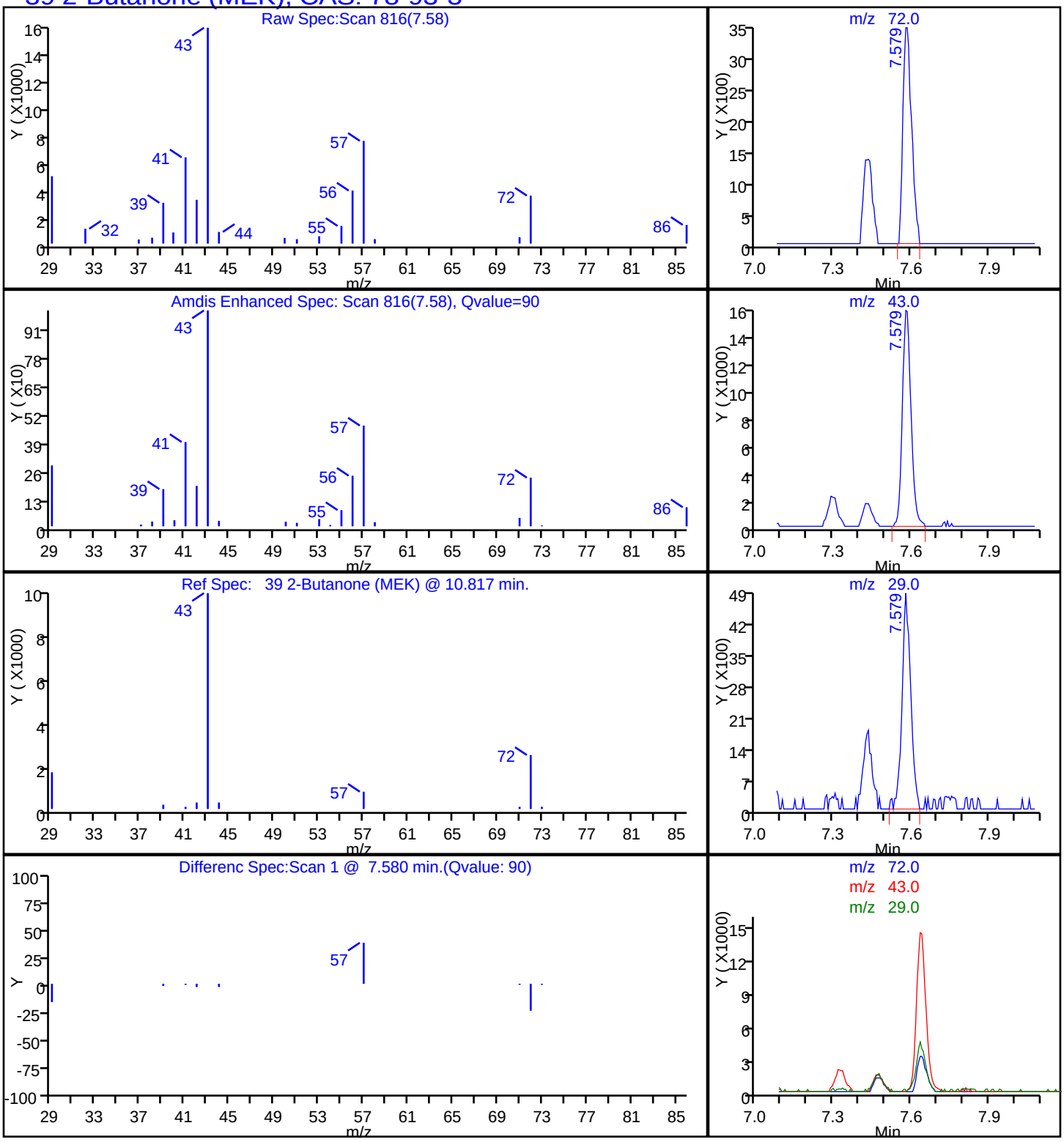
Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3

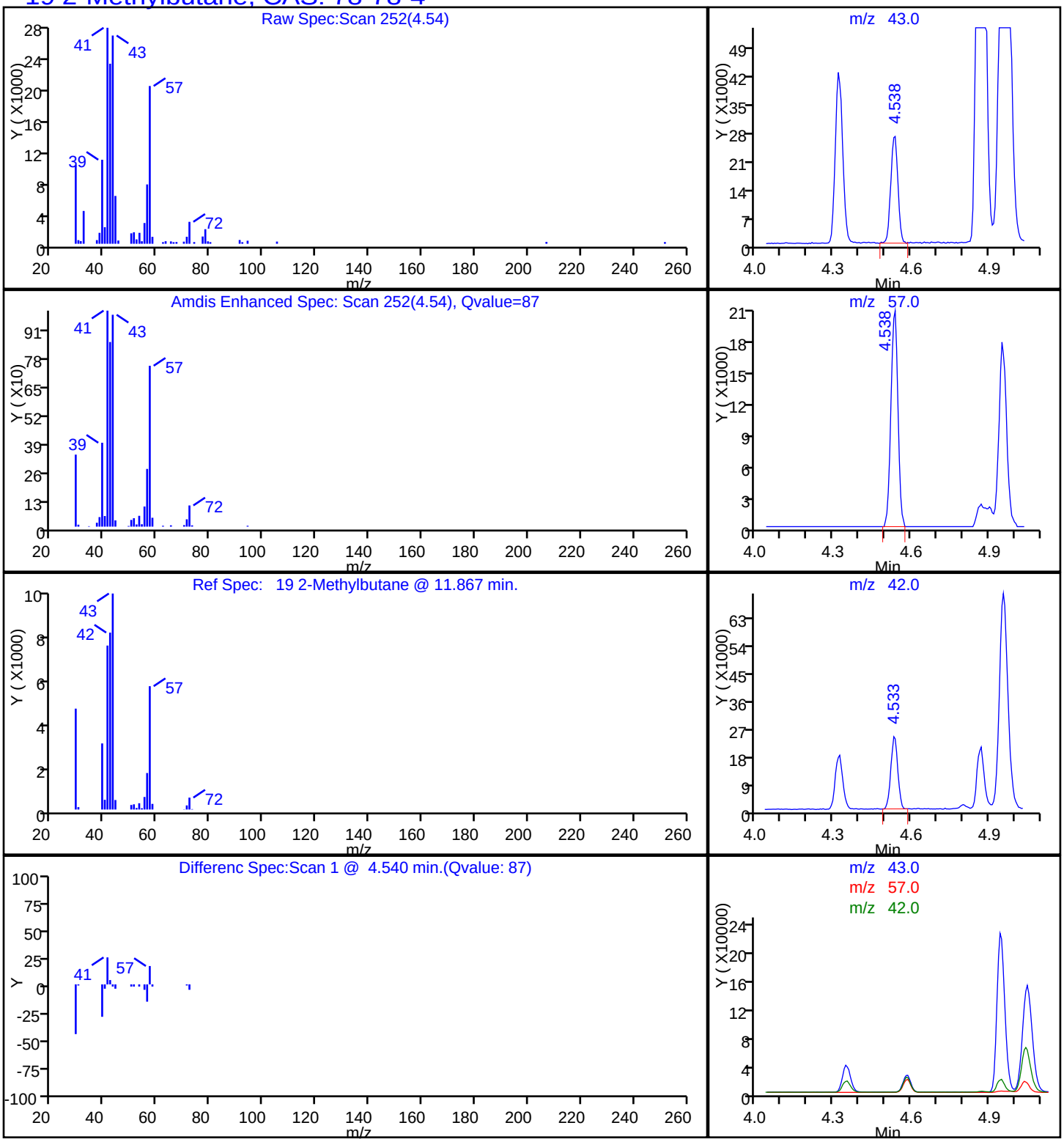


Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4

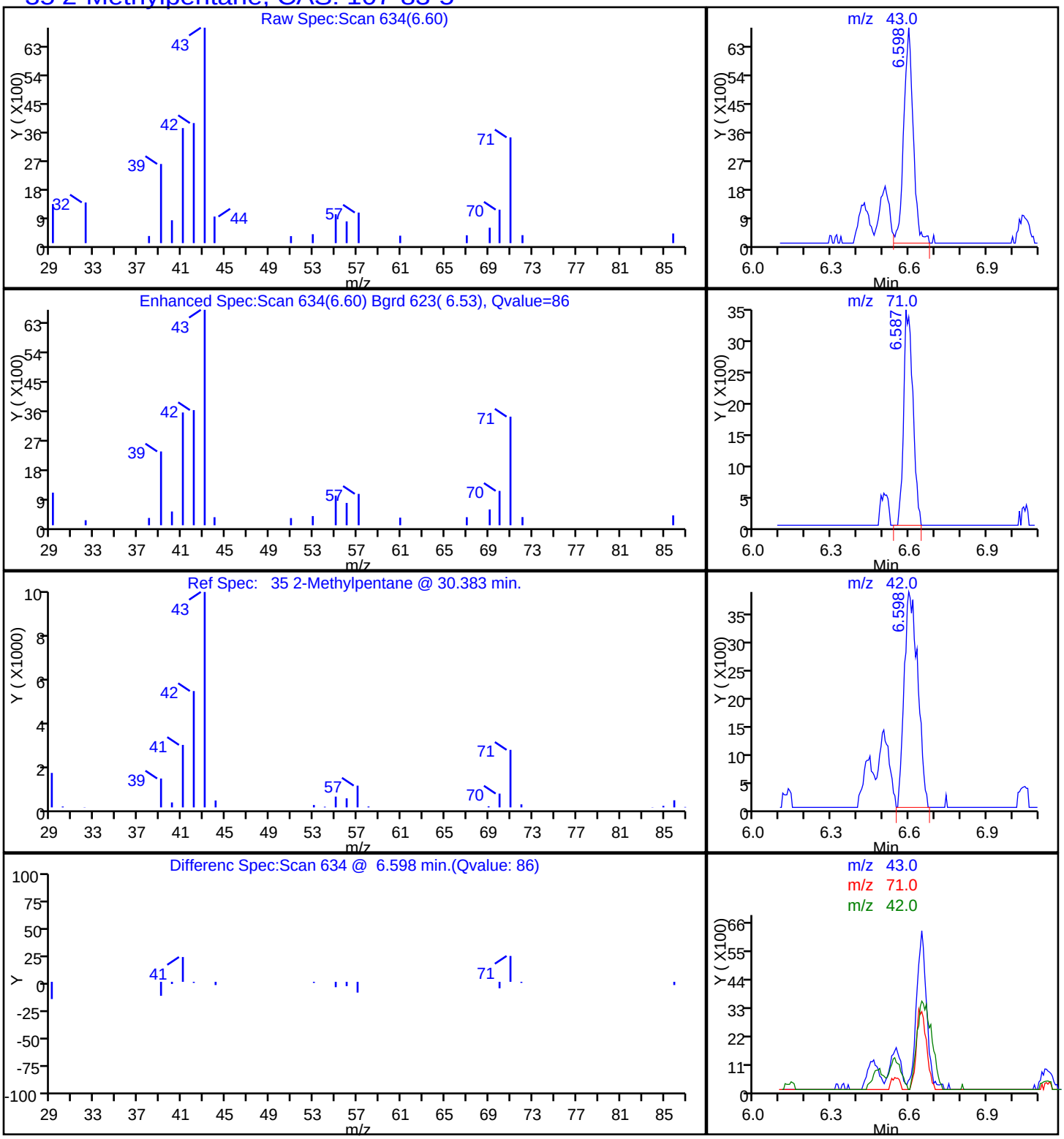


Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5

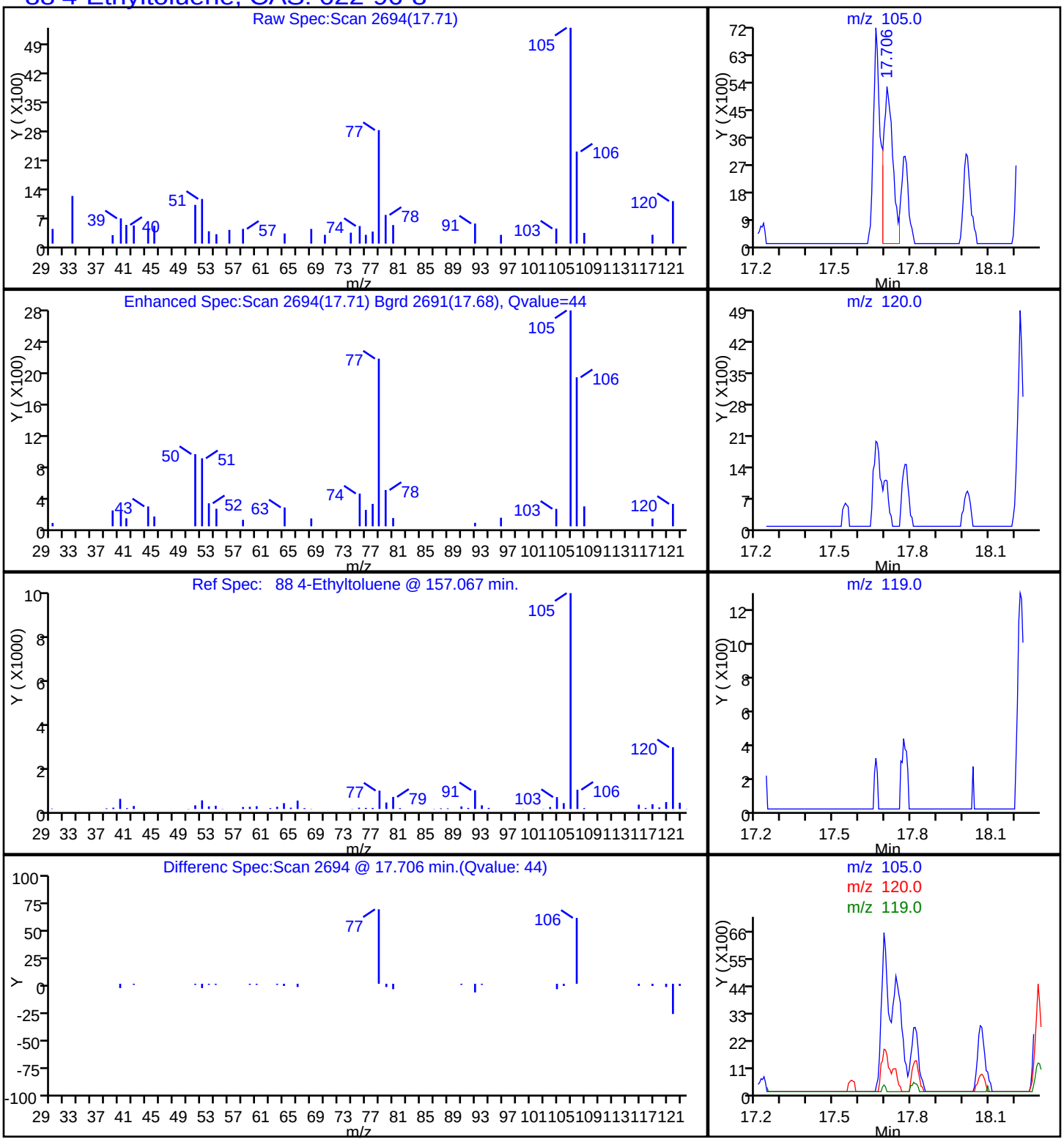


Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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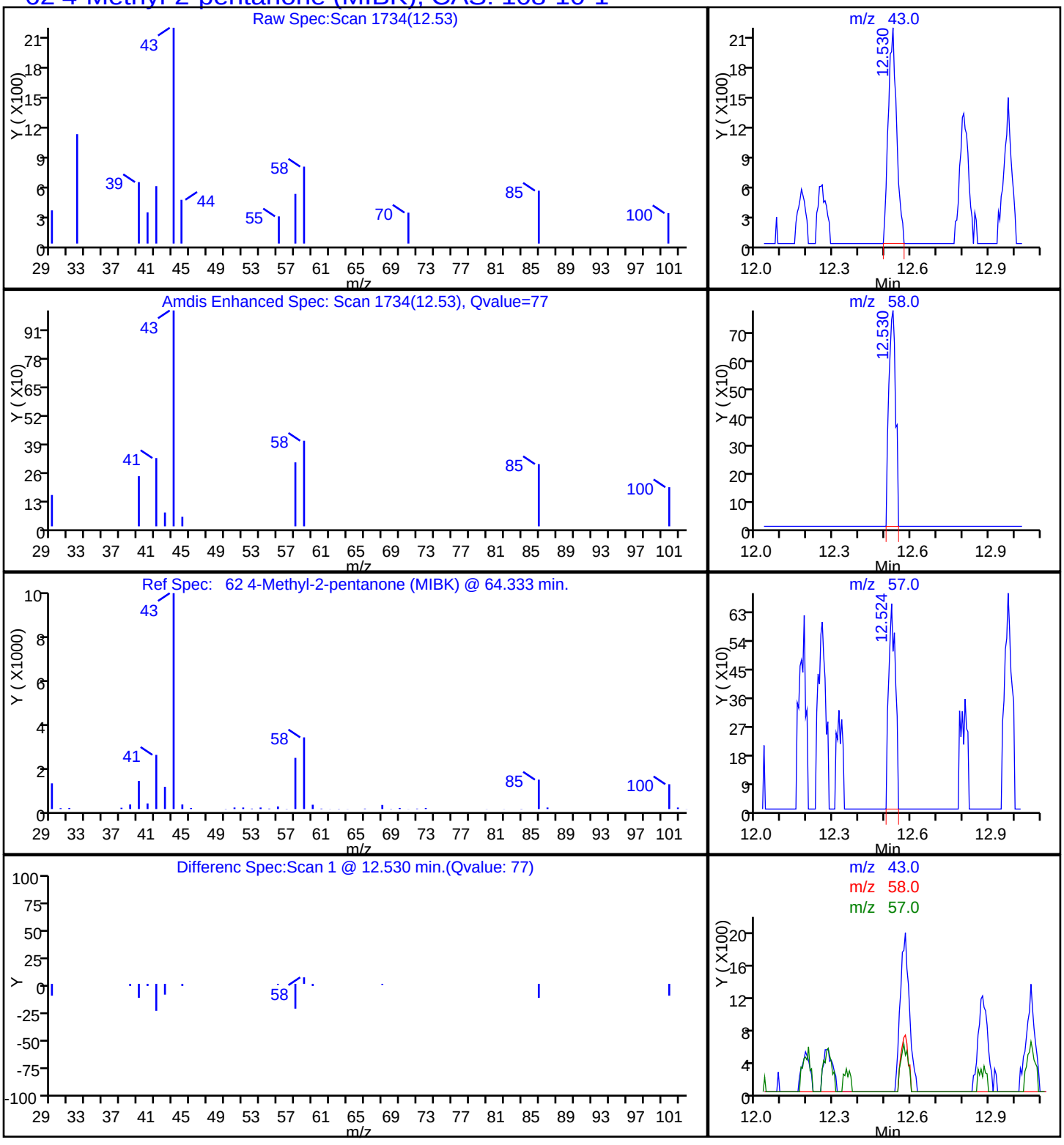
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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TestAmerica Knoxville

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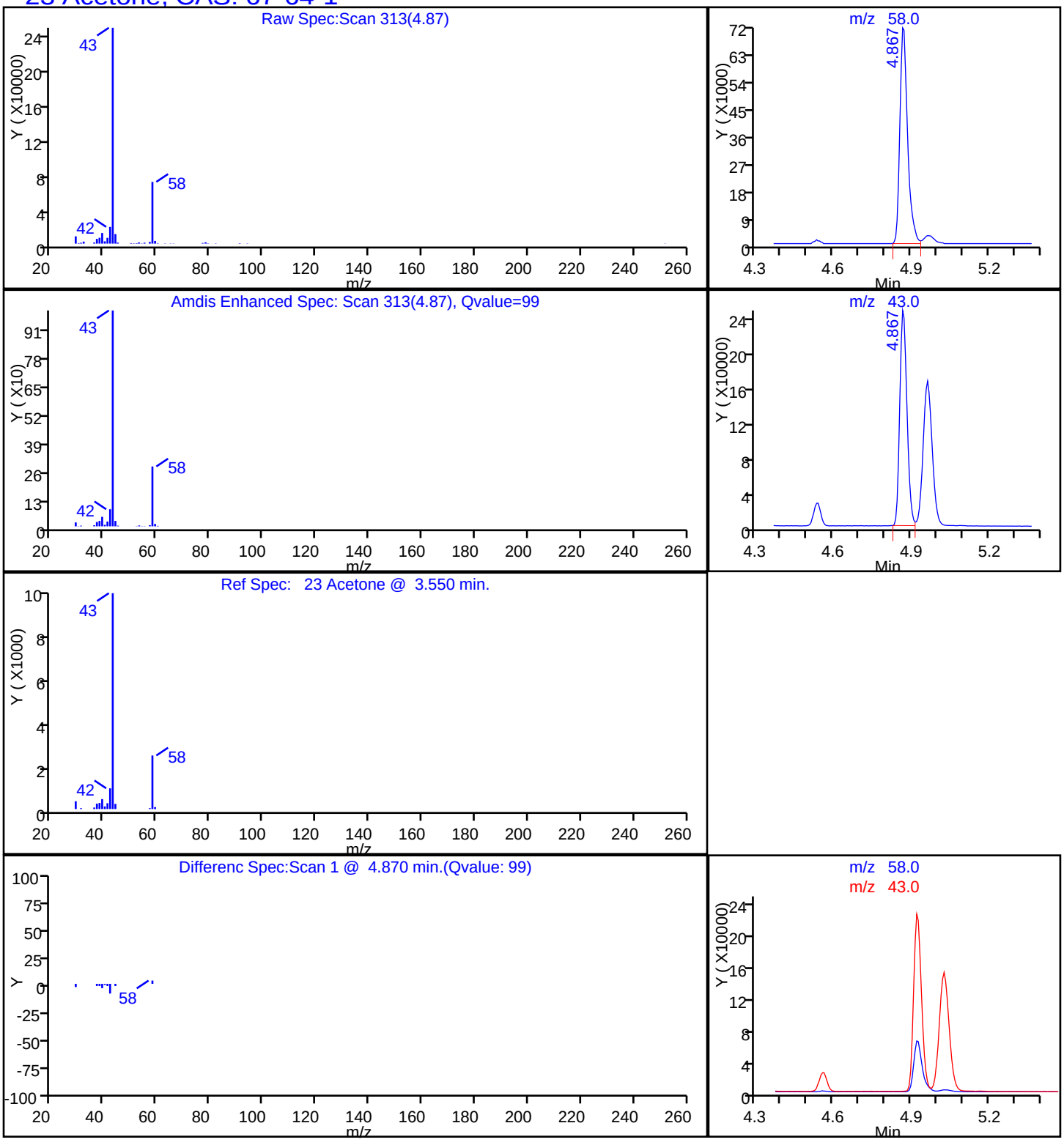
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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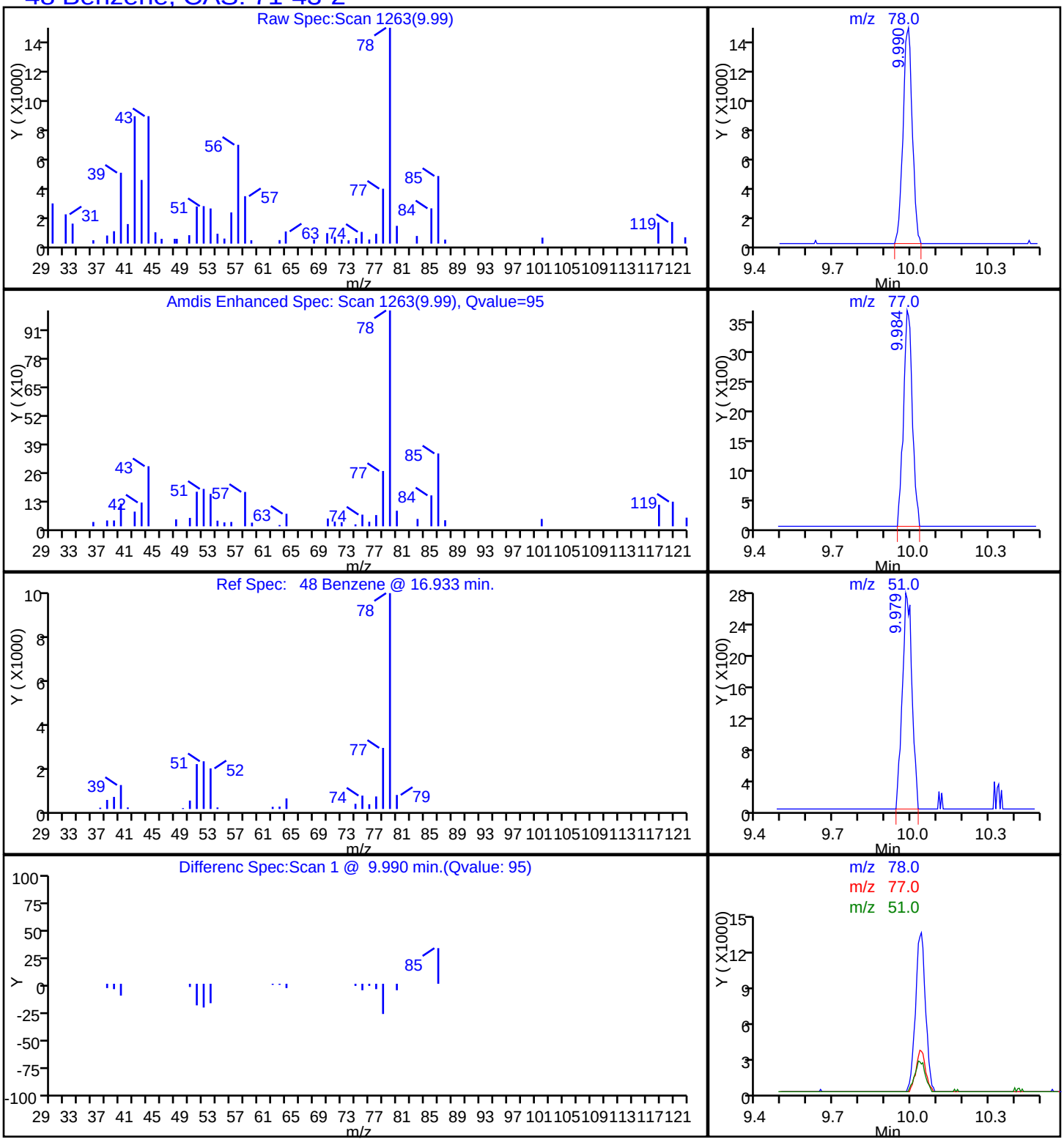
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

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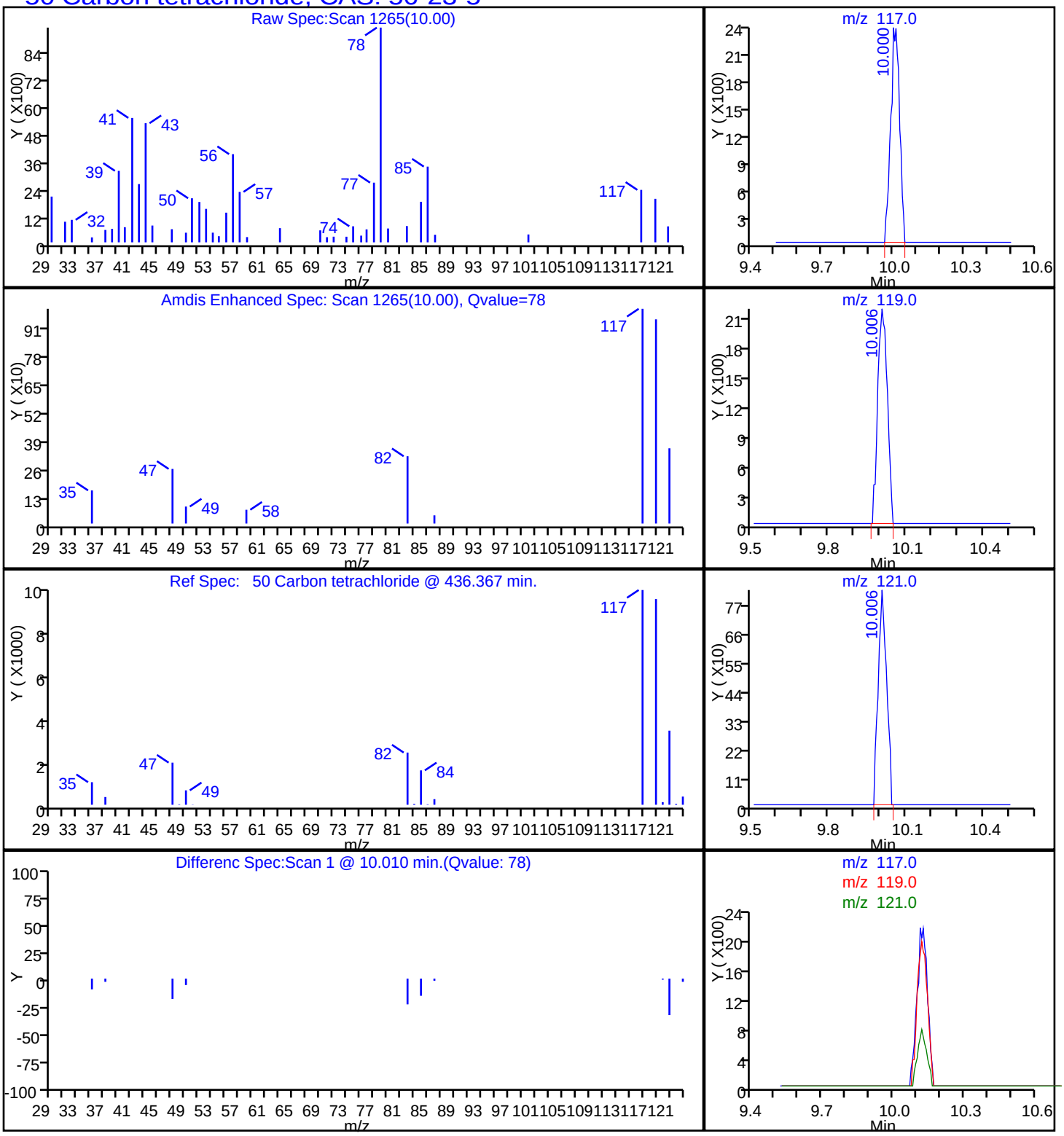
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
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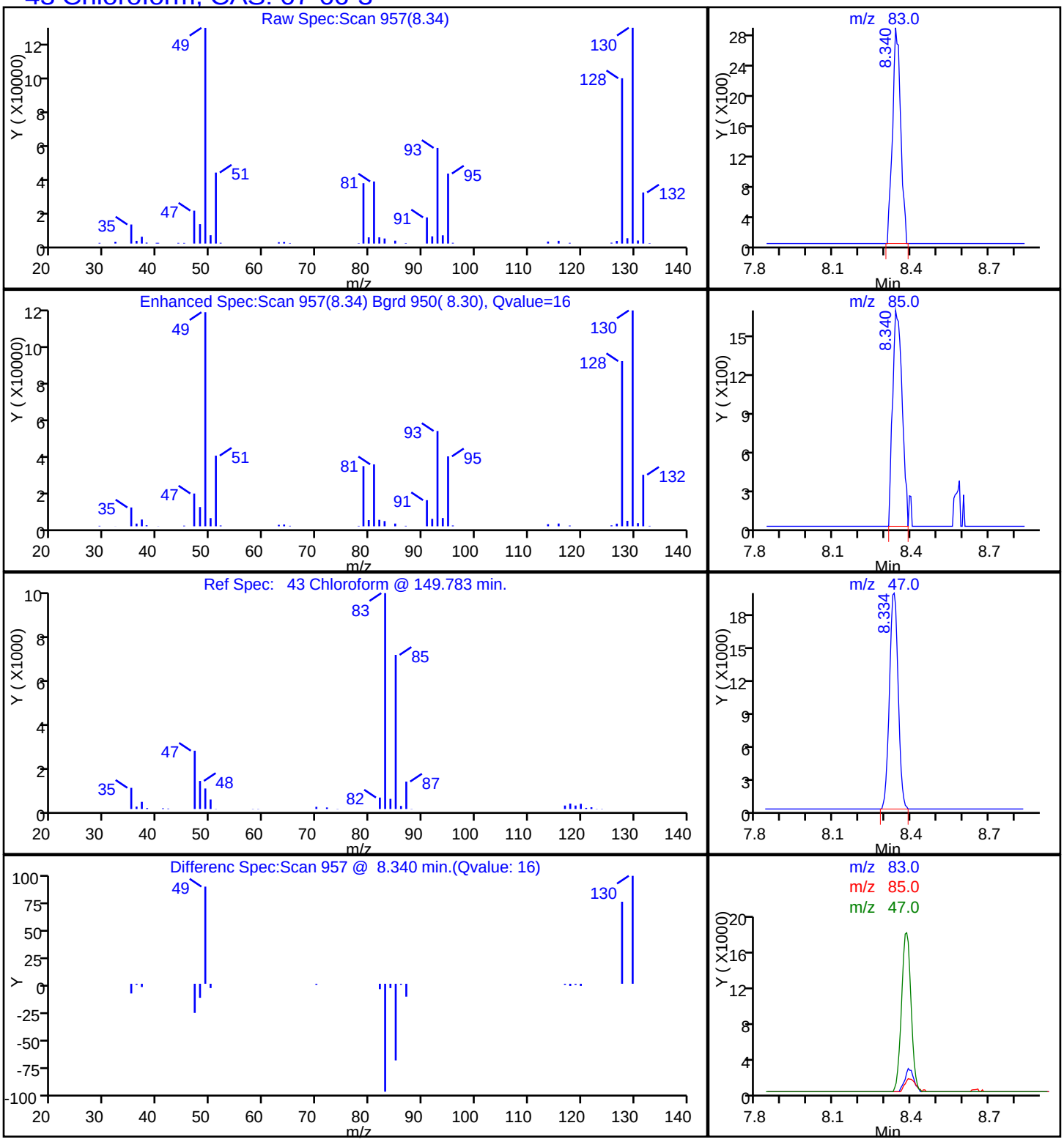
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



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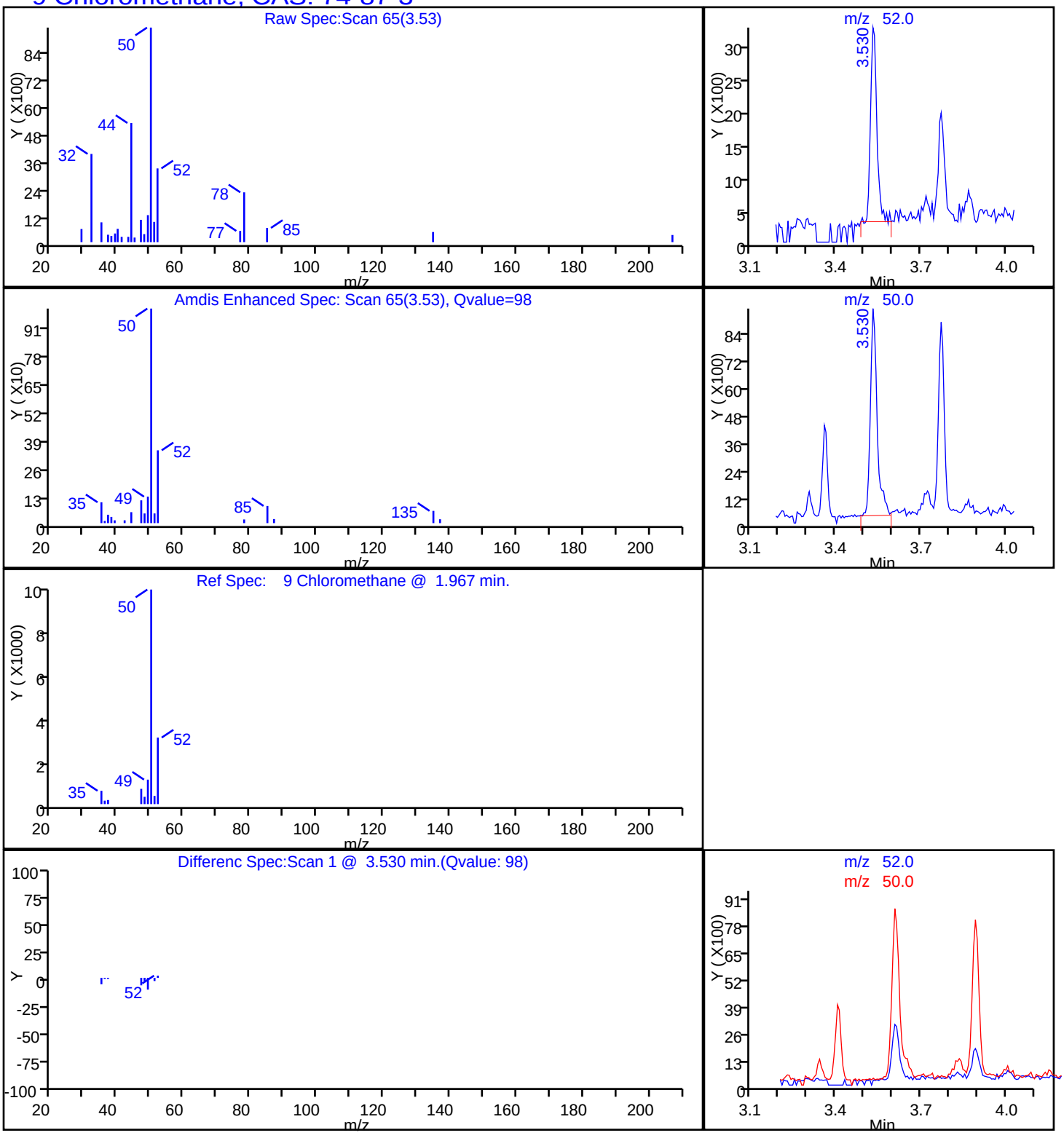
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D		
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



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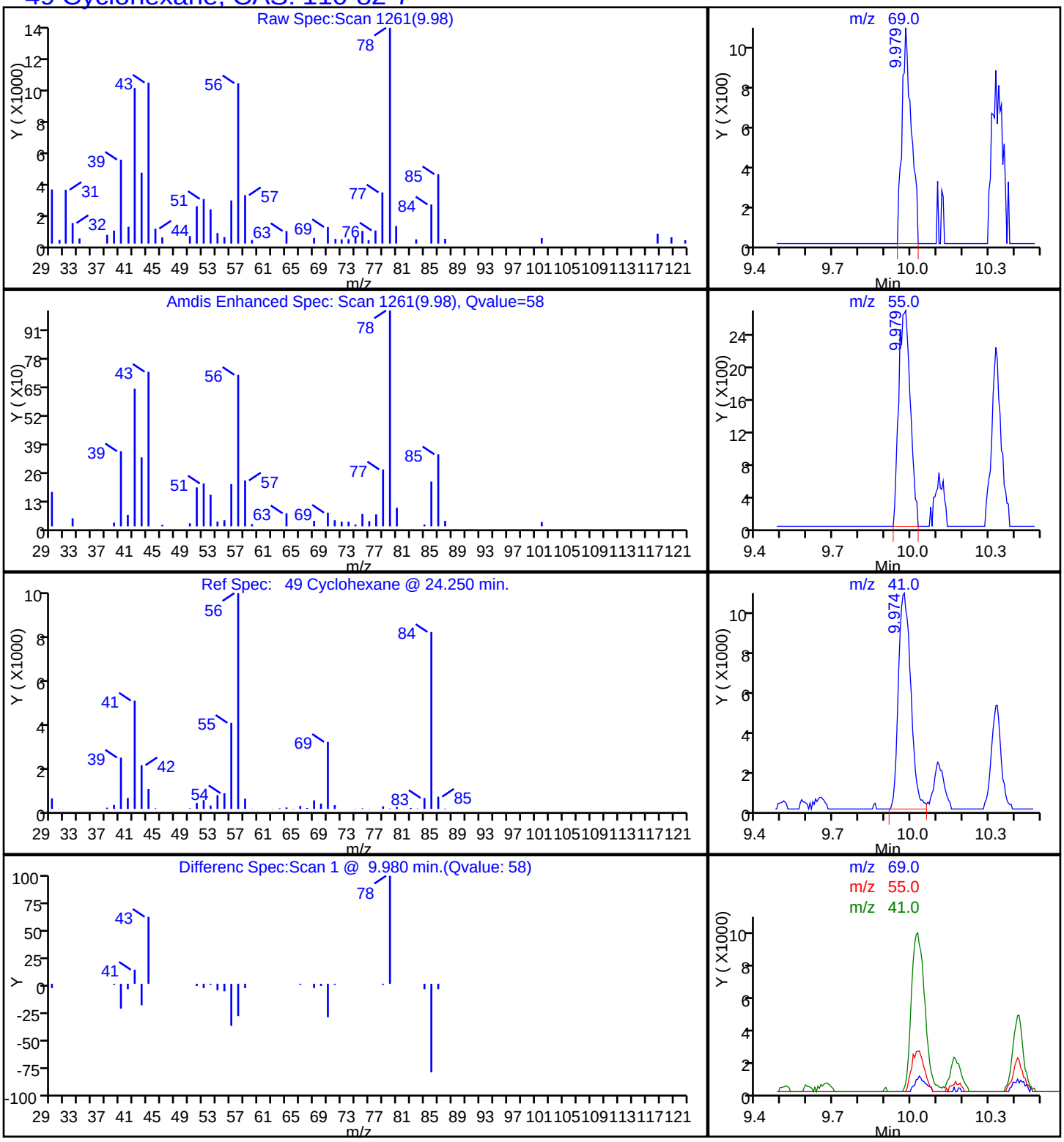
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D		
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



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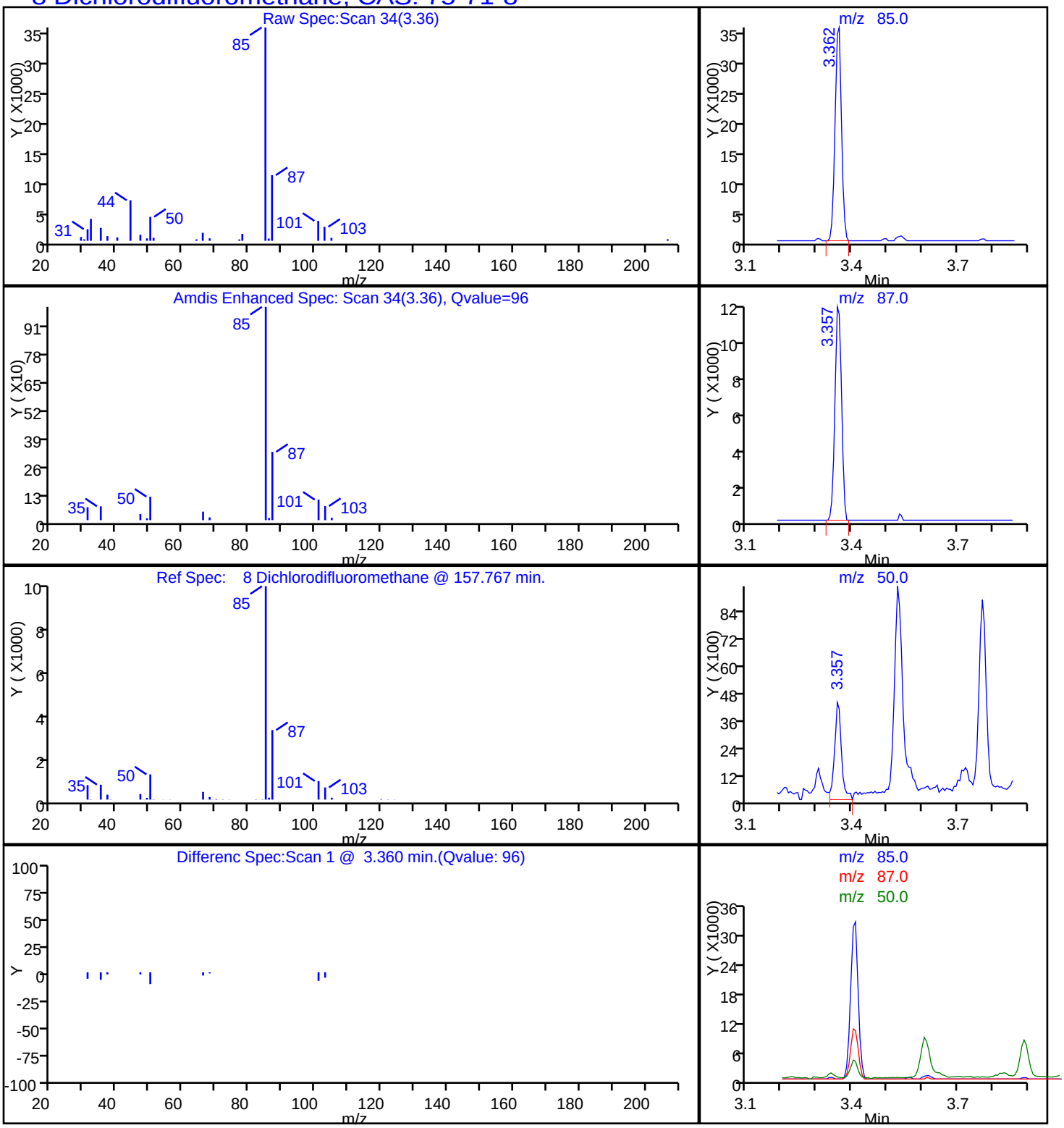
Client ID: PCV-IA1-B12
Operator ID: 060487 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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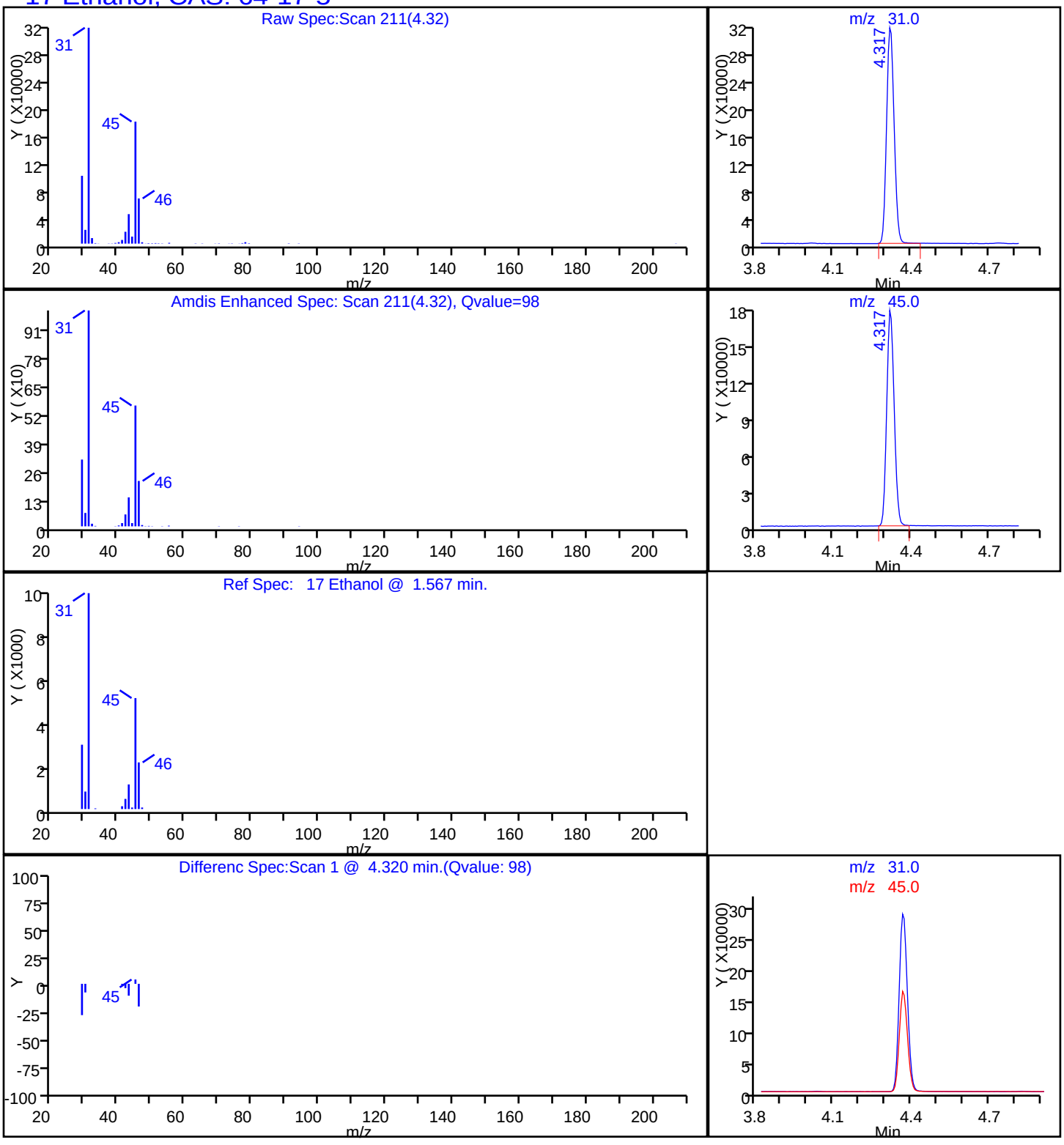
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



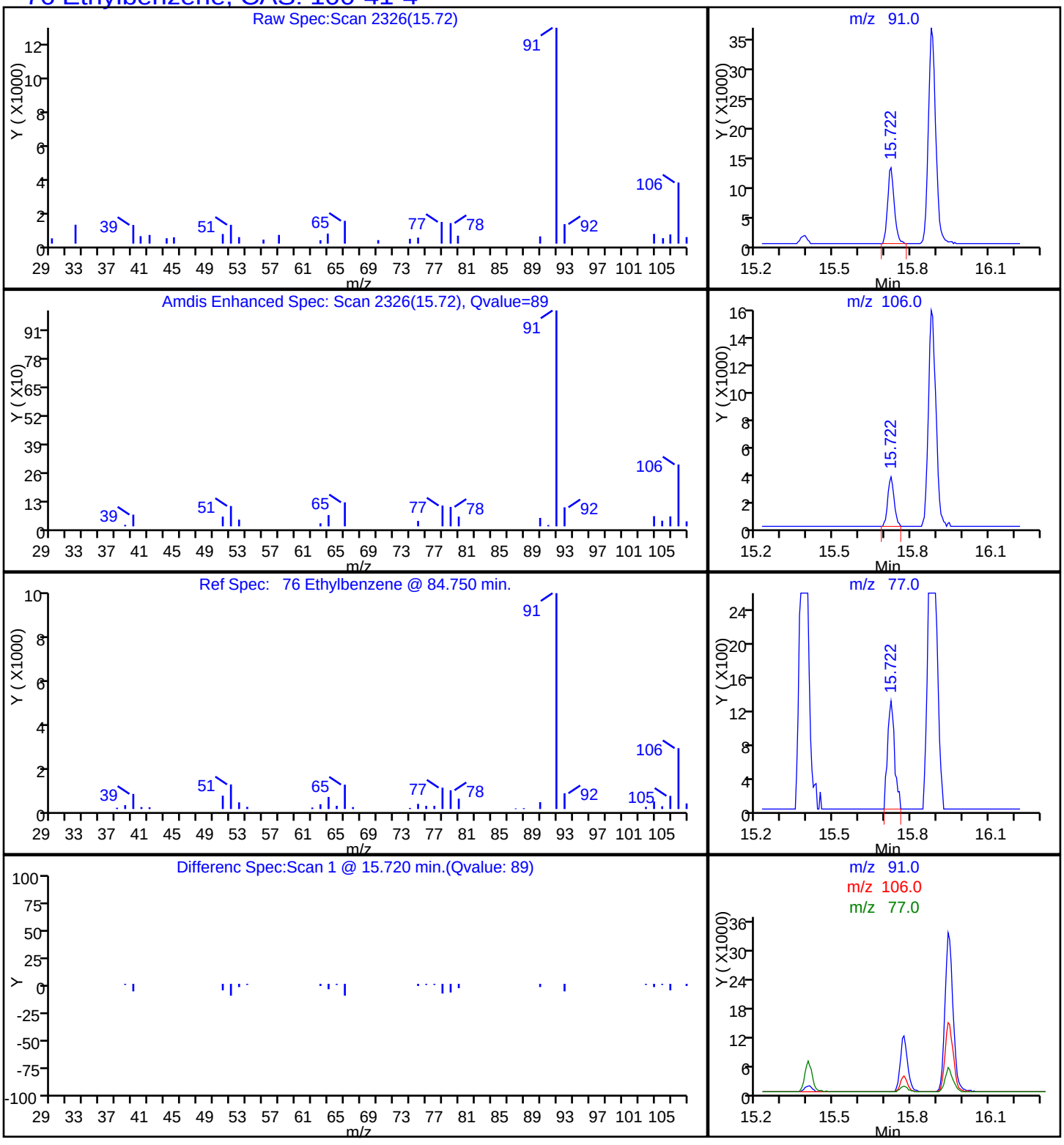
Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1
Client ID:	PCV-IA1-B12		
Operator ID:	060487	ALS Bottle#:	9 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



Report Date: 25-Mar-2014 14:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
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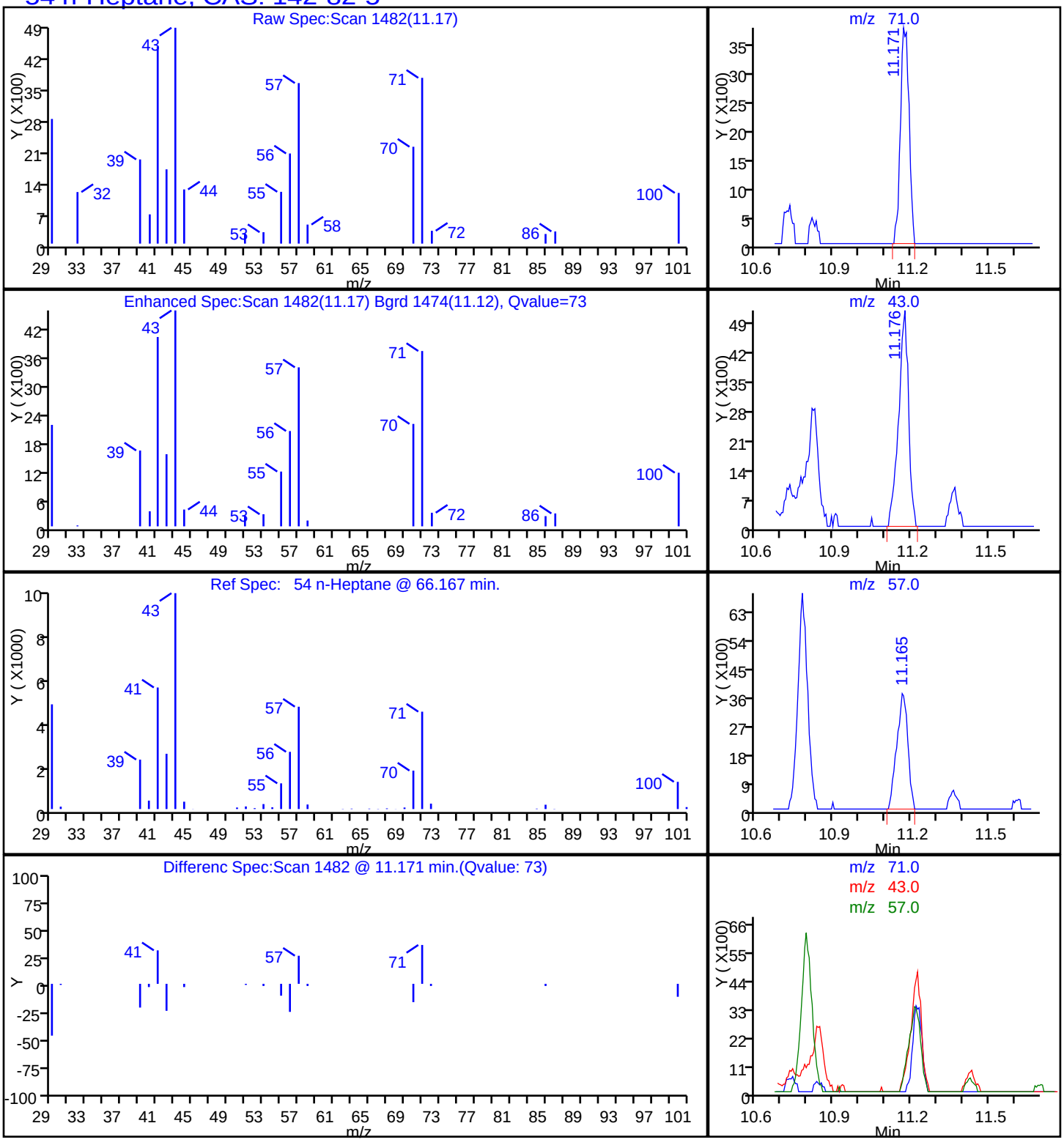
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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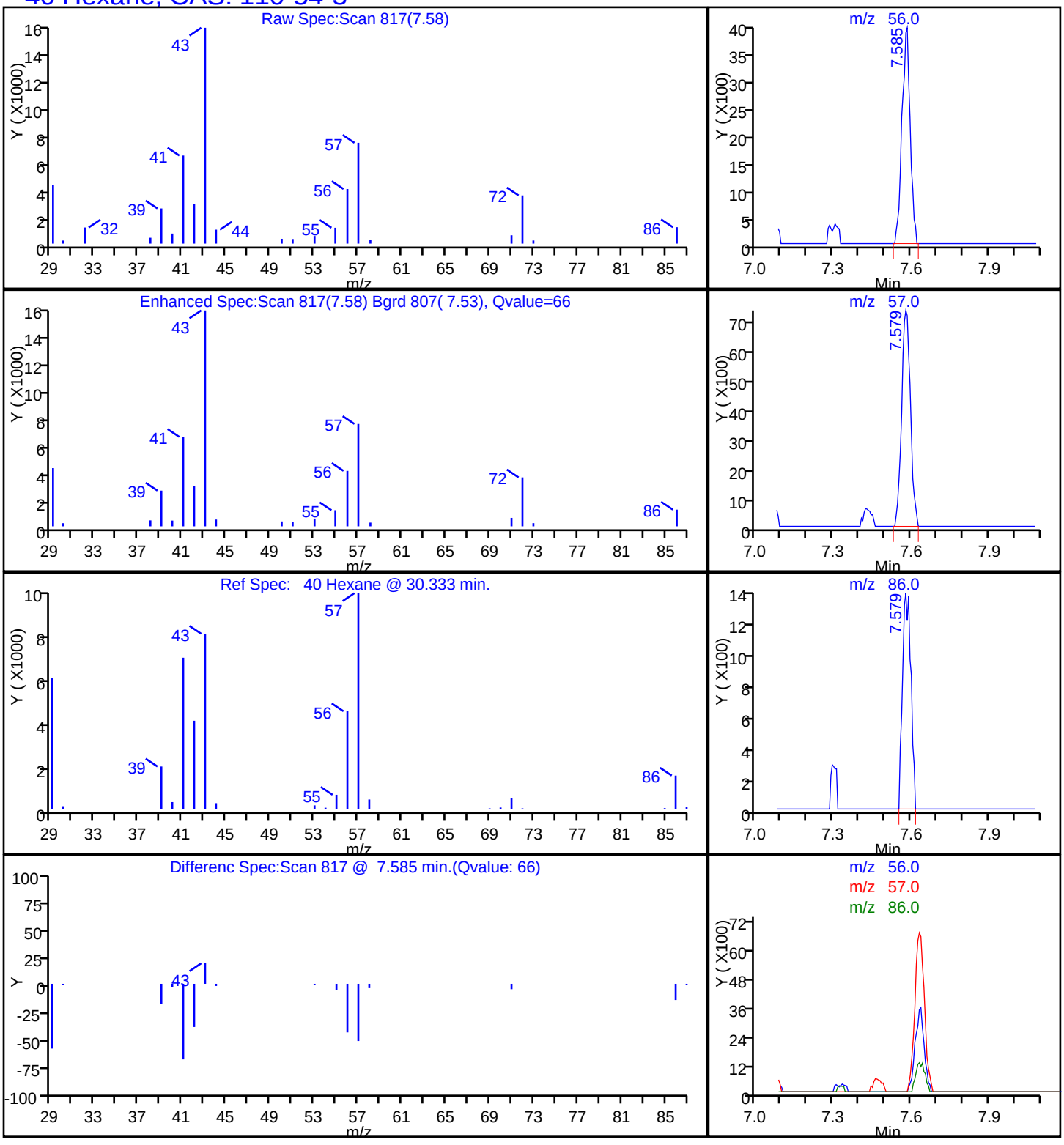
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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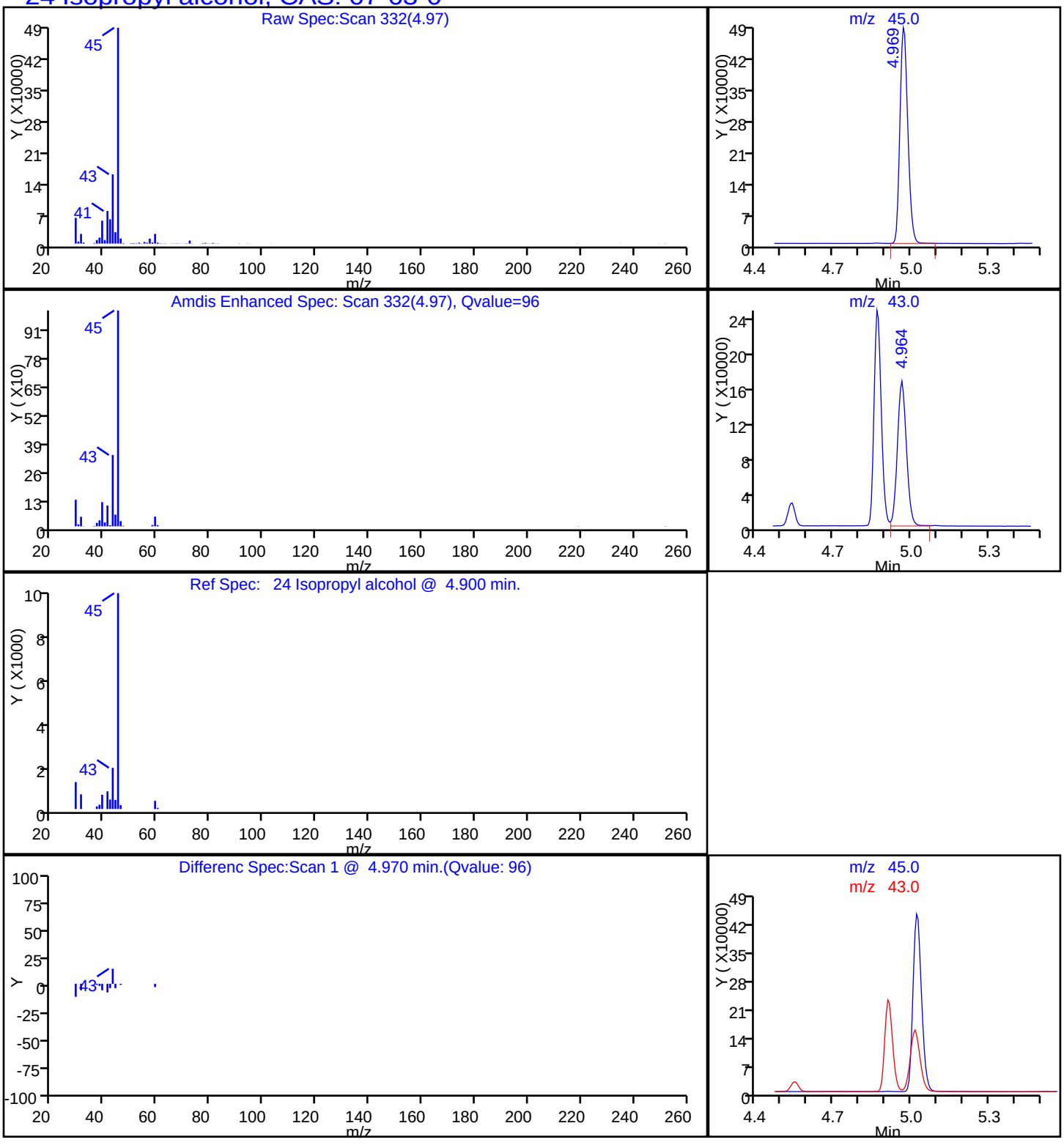
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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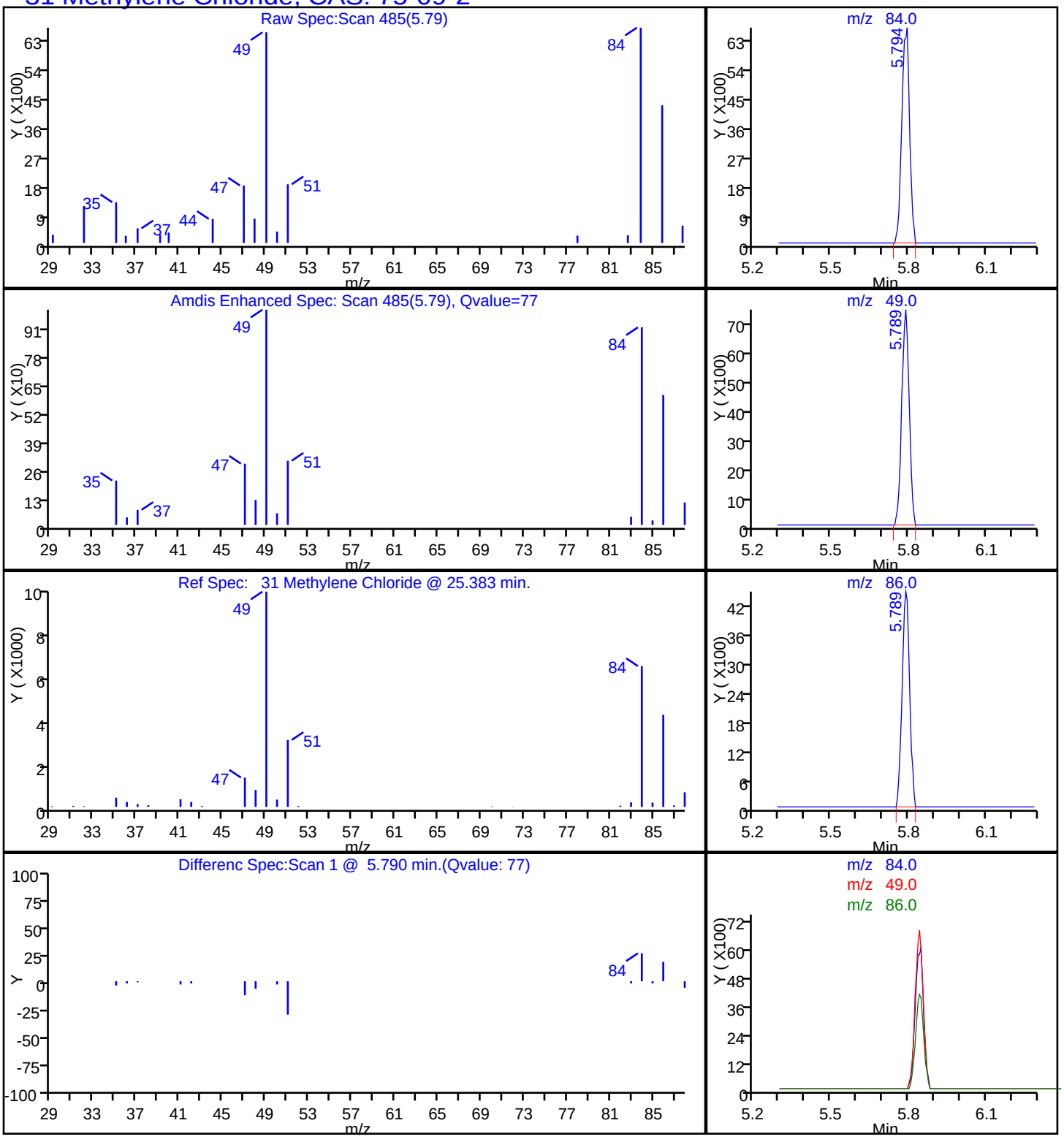
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
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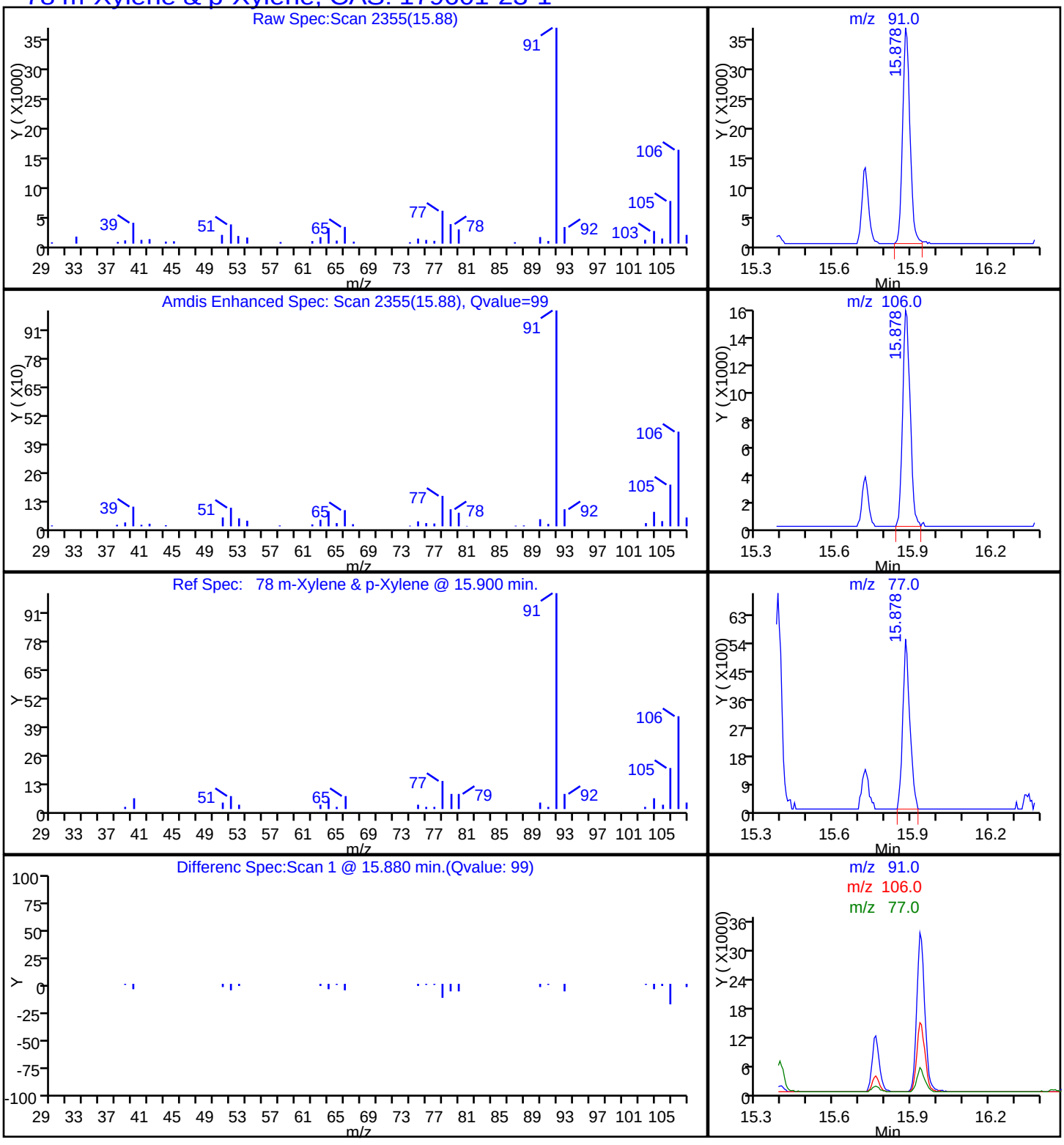
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
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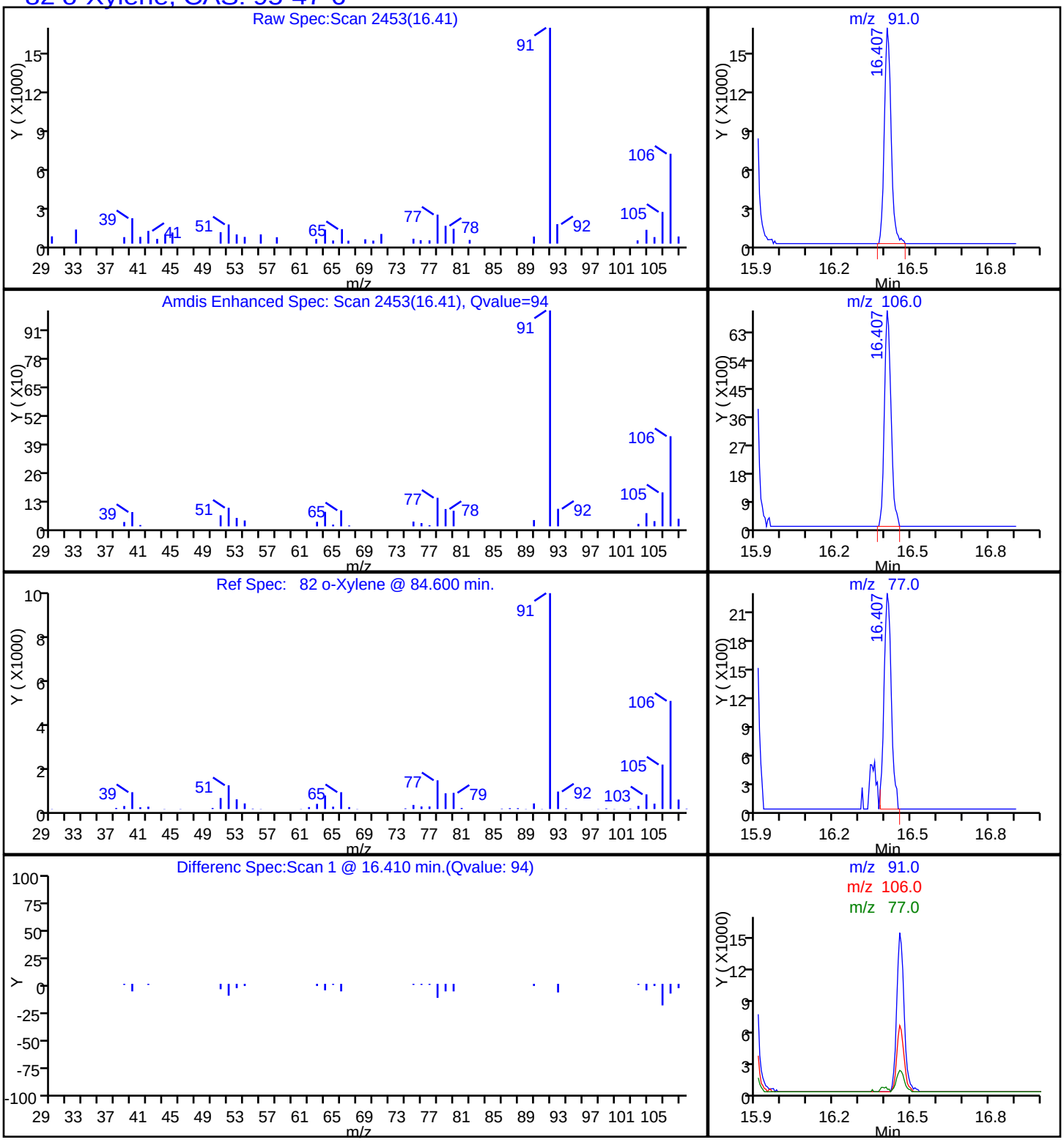
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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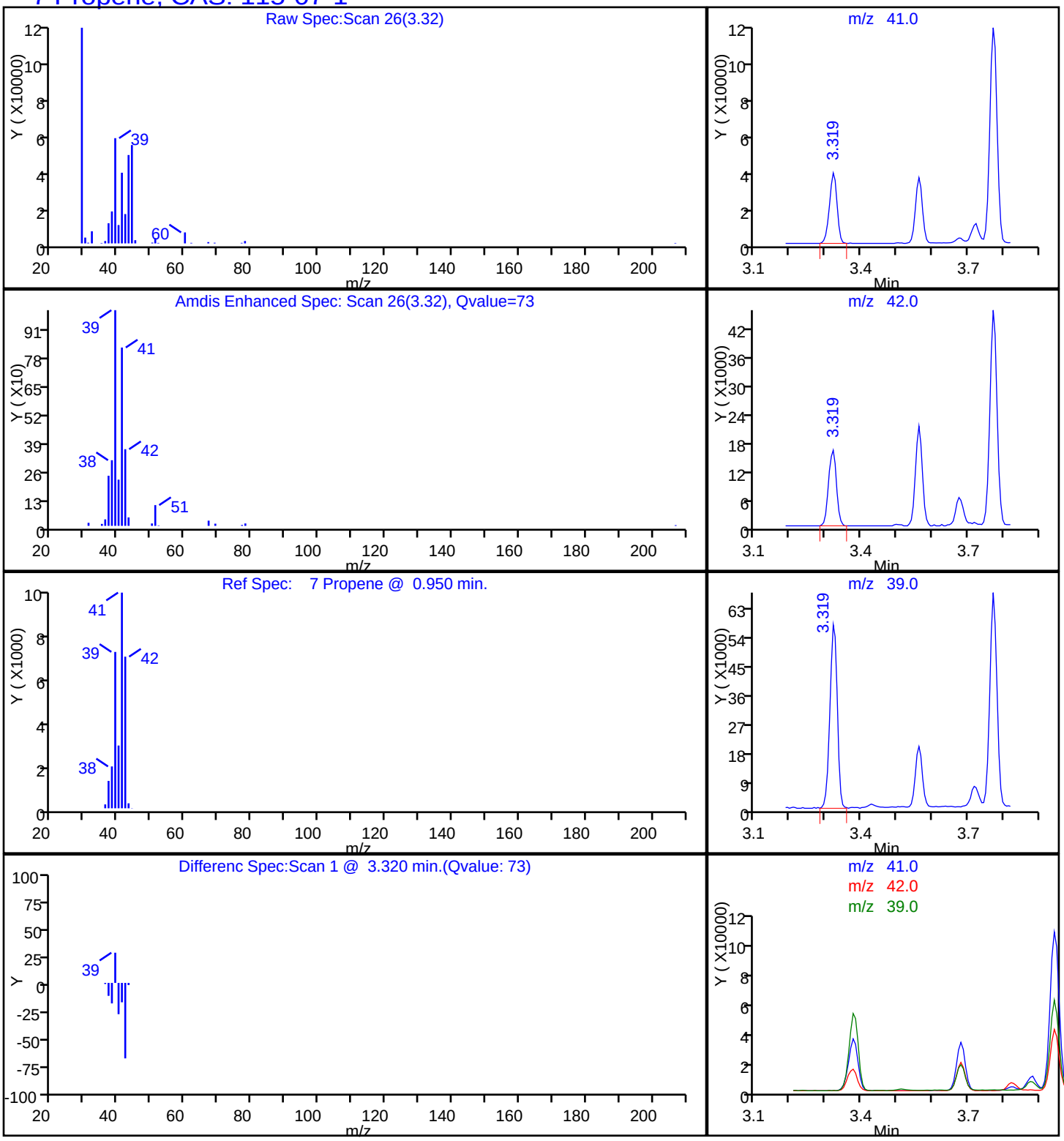
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



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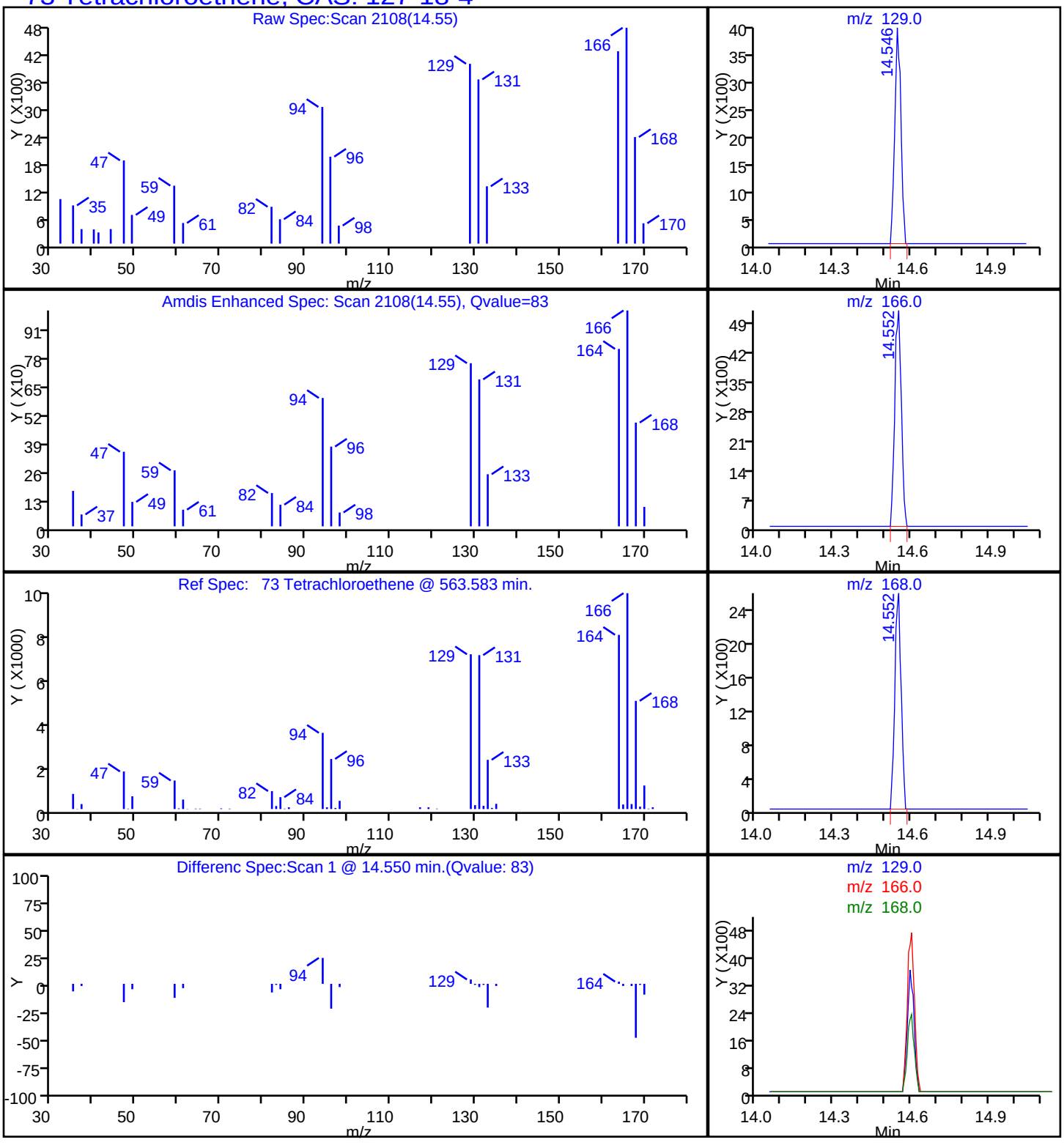
Injection Date: 18-Mar-2014 00:00:30 Instrument ID: ME
Lims ID: 140-1051-A-1 Lab Sample ID: 140-1051-1
Client ID: PCV-IA1-B12
Operator ID: 060487 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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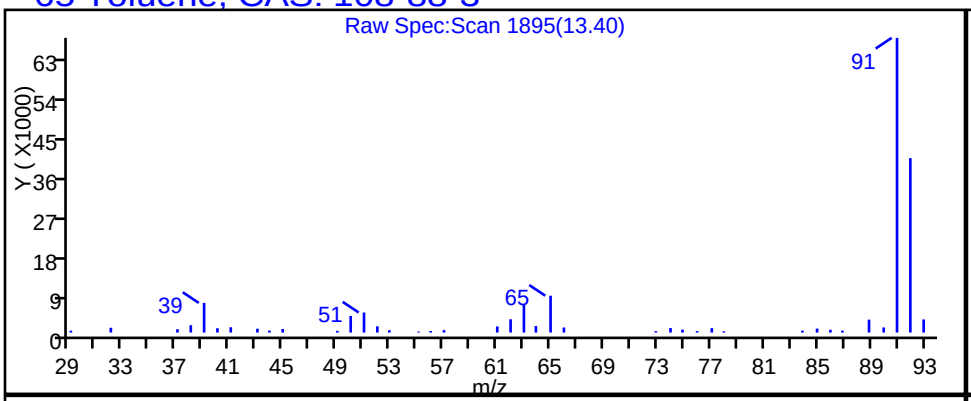
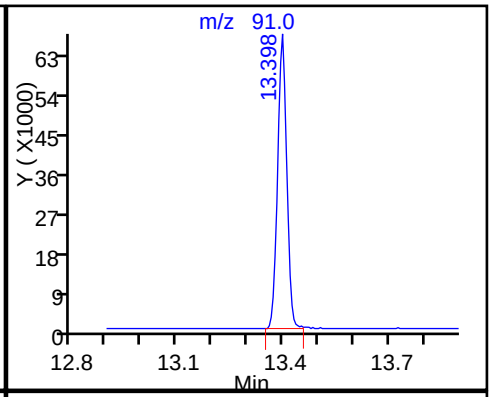
TestAmerica Knoxville

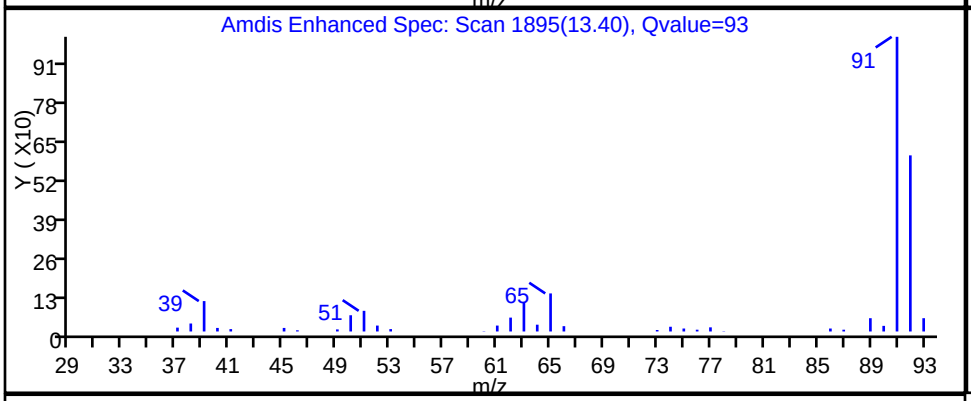
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D

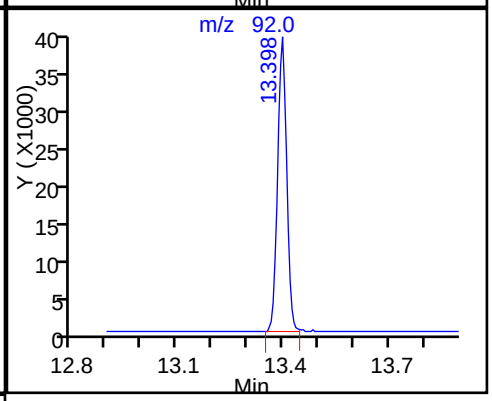
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

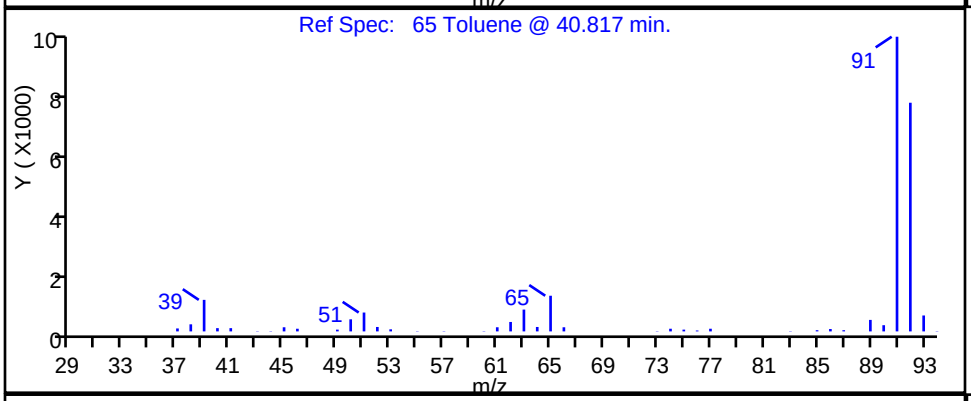
65 Toluene, CAS: 108-88-3

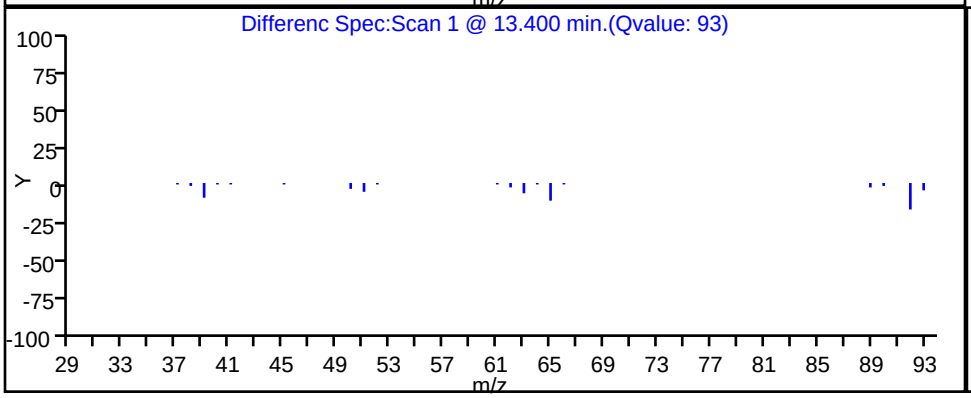


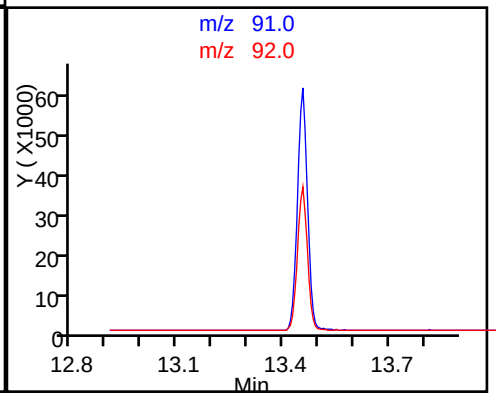










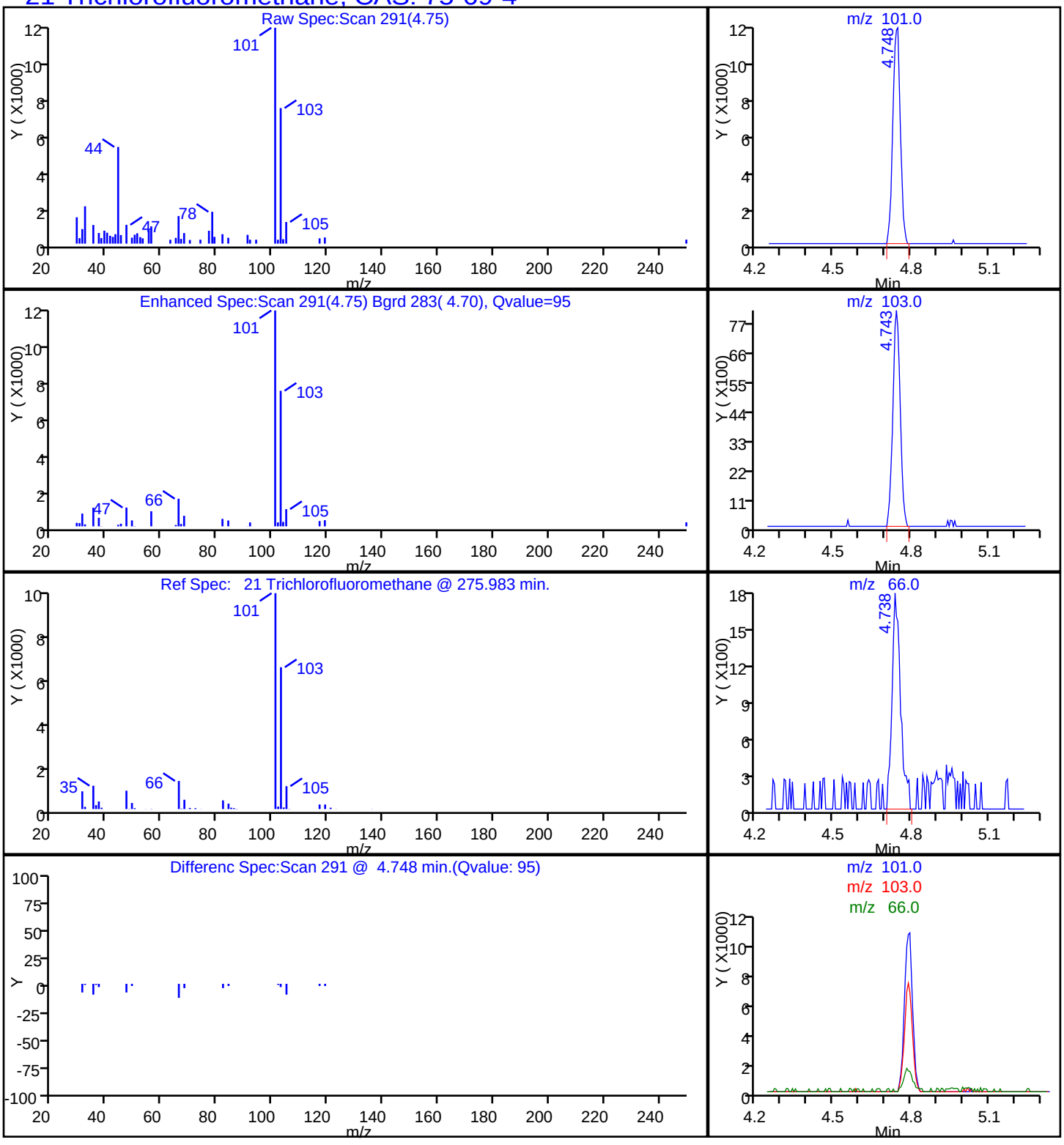


Report Date: 25-Mar-2014 14:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS109.D				
Injection Date:	18-Mar-2014 00:00:30	Instrument ID:	ME		
Lims ID:	140-1051-A-1	Lab Sample ID:	140-1051-1		
Client ID:	PCV-IA1-B12				
Operator ID:	060487	ALS Bottle#:	9	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 Lab Sample ID: 140-1051-2

Matrix: Air Lab File ID: EC17POS110.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.078	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.14	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.13	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.4		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	3.6		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.37		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.10	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.5		0.50	0.045
67-64-1	Acetone	58.08	10		5.0	1.4
71-43-2	Benzene	78.11	0.44		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 Lab Sample ID: 140-1051-2

Matrix: Air Lab File ID: EC17POS110.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	0.075	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.68		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.14	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*230*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	0.20		0.20	0.068
142-82-5	Heptane	100.21	0.50		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.37	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	6.8		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.70		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.89		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.34		0.20	0.061
115-07-1	Propene	42.08	2.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.17	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	5.5		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 Lab Sample ID: 140-1051-2

Matrix: Air Lab File ID: EC17POS110.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 Lab Sample ID: 140-1051-2

Matrix: Air Lab File ID: EC17POS110.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.60	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.68	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.75	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.69	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	4.2		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	10		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.3		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.51	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	6.1		2.0	0.18
67-64-1	Acetone	58.08	25		12	3.3
71-43-2	Benzene	78.11	1.4		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 | Lab Sample ID: 140-1051-2

Matrix: Air | Lab File ID: EC17POS110.D

Analysis Method: TO-15 | Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) | Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 967 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	0.37	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.4		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.50	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*440*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	0.85		0.87	0.30
142-82-5	Heptane	100.21	2.0		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	17		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.4		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.9		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.5		0.87	0.26
115-07-1	Propene	42.08	3.8	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	21		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 Lab Sample ID: 140-1051-2

Matrix: Air Lab File ID: EC17POS110.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D
Lims ID: 140-1051-A-2 Lab Sample ID: 140-1051-2
Client ID: PCV-IA2-B12
Sample Type: Client
Inject. Date: 18-Mar-2014 00:45:30 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-2
Misc. Info.: E031714,TO155,,140-0000525-015
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:27 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:28:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	221427	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1068073	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	948342	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	85	845506	4.07	
7 Propene	41	3.314	3.309	0.005	91	49395	0.8868	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	96	45191	0.1845	
9 Chloromethane	52	3.530	3.530	0.0	99	5294	0.2708	
17 Ethanol	31	4.328	4.317	0.011	98	2061344	93.1	E
19 2-Methylbutane	43	4.533	4.538	-0.005	87	110230	1.42	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	93	25722	0.1047	
23 Acetone	58	4.867	4.878	-0.011	92	140236	4.18	
24 Isopropyl alcohol	45	4.986	4.970	0.016	89	233876	2.71	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	76	4747	0.0312	
31 Methylene Chloride	84	5.789	5.789	0.0	83	17655	0.2790	
35 2-Methylpentane	43	6.598	6.603	-0.005	63	21746	0.1491	
39 2-Butanone (MEK)	72	7.580	7.579	0.001	95	20451	0.5642	
40 Hexane	56	7.585	7.585	0.0	54	8620	0.1464	
43 Chloroform	83	8.345	8.356	-0.011	17	5697	0.0300	
49 Cyclohexane	69	9.985	9.984	0.001	46	2324	0.0577	
48 Benzene	78	9.990	9.995	-0.005	95	38081	0.1772	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	86	6075	0.0294	
53 Isooctane	57	10.777	10.783	-0.005	91	19512	0.0588	
54 n-Heptane	71	11.171	11.182	-0.011	73	16146	0.1985	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	75688	0.5979	
65 Toluene	91	13.398	13.403	-0.005	94	559999	2.20	
73 Tetrachloroethene	129	14.552	14.552	0.0	84	7329	0.0677	
76 Ethylbenzene	91	15.722	15.727	-0.005	94	25578	0.0785	
78 m-Xylene & p-Xylene	91	15.878	15.889	-0.011	99	91177	0.3560	
82 o-Xylene	91	16.407	16.412	-0.005	95	37300	0.1347	
88 4-Ethyltoluene	105	17.706	17.701	0.005	30	14614	0.0417	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	81	16211	0.0557	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
97 1,4-Dichlorobenzene	146	18.591	18.596	-0.005	85	9309	0.0500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

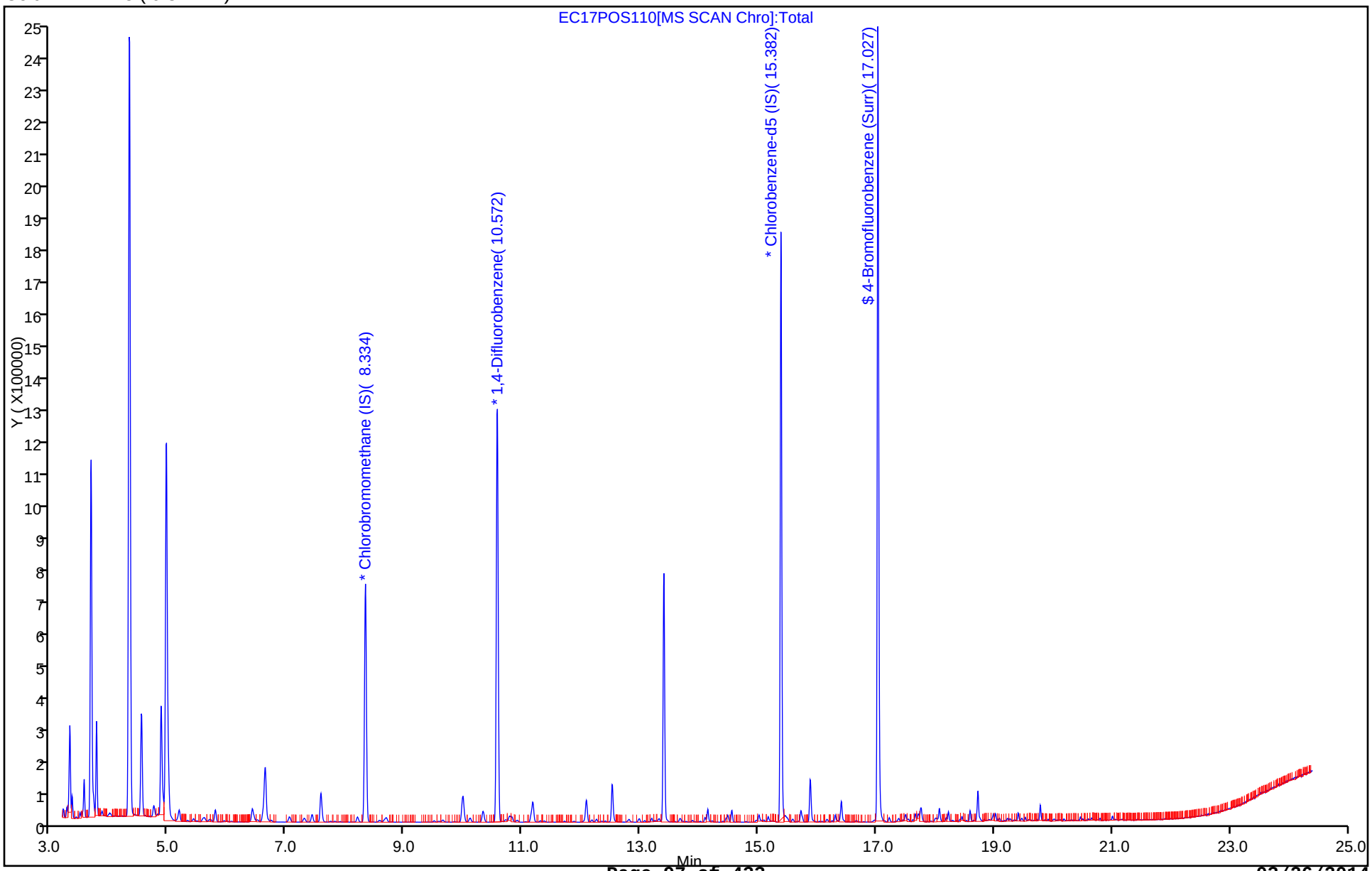
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2	Worklist Smp#:	15
Client ID:	PCV-IA2-B12				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



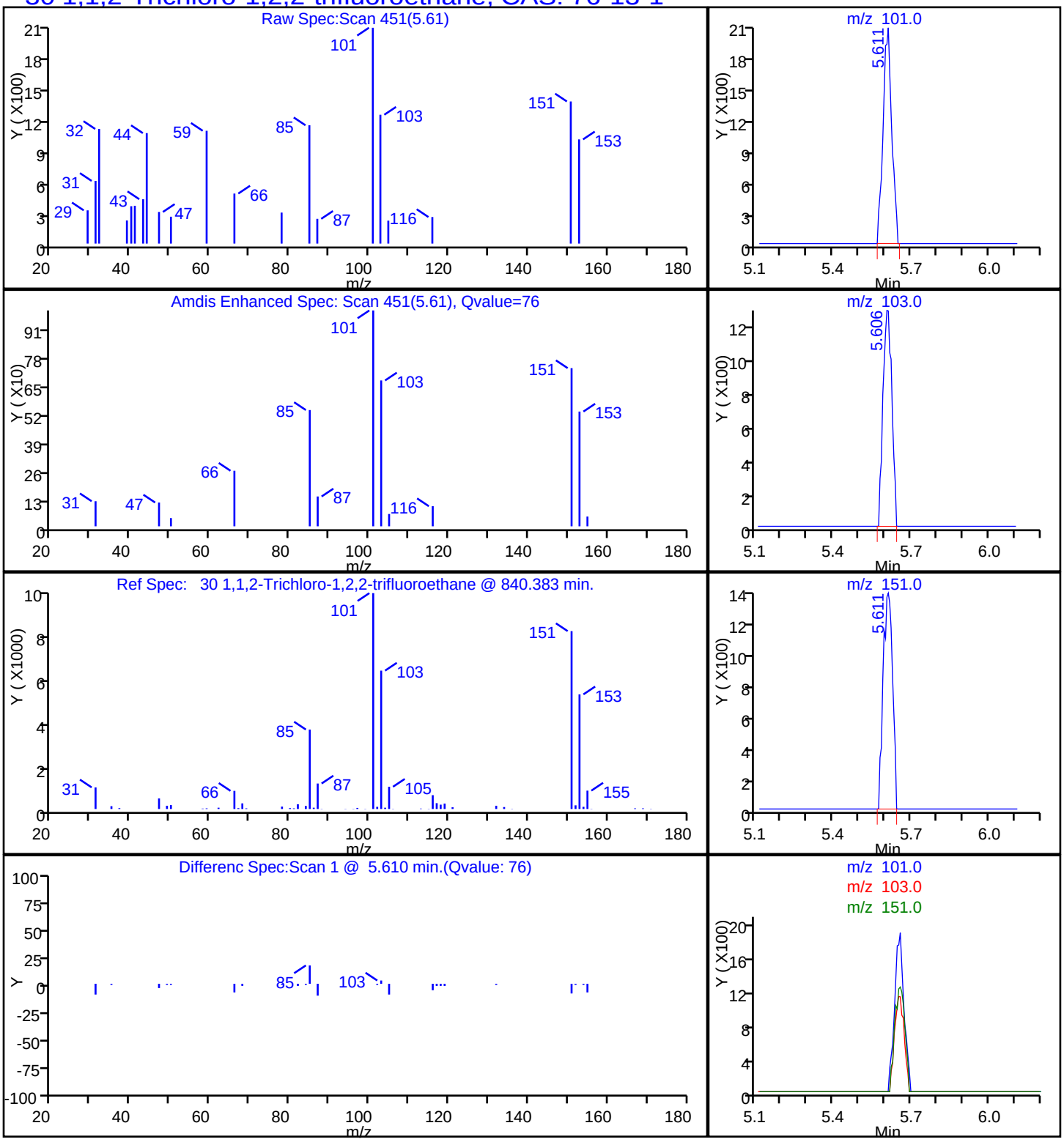
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

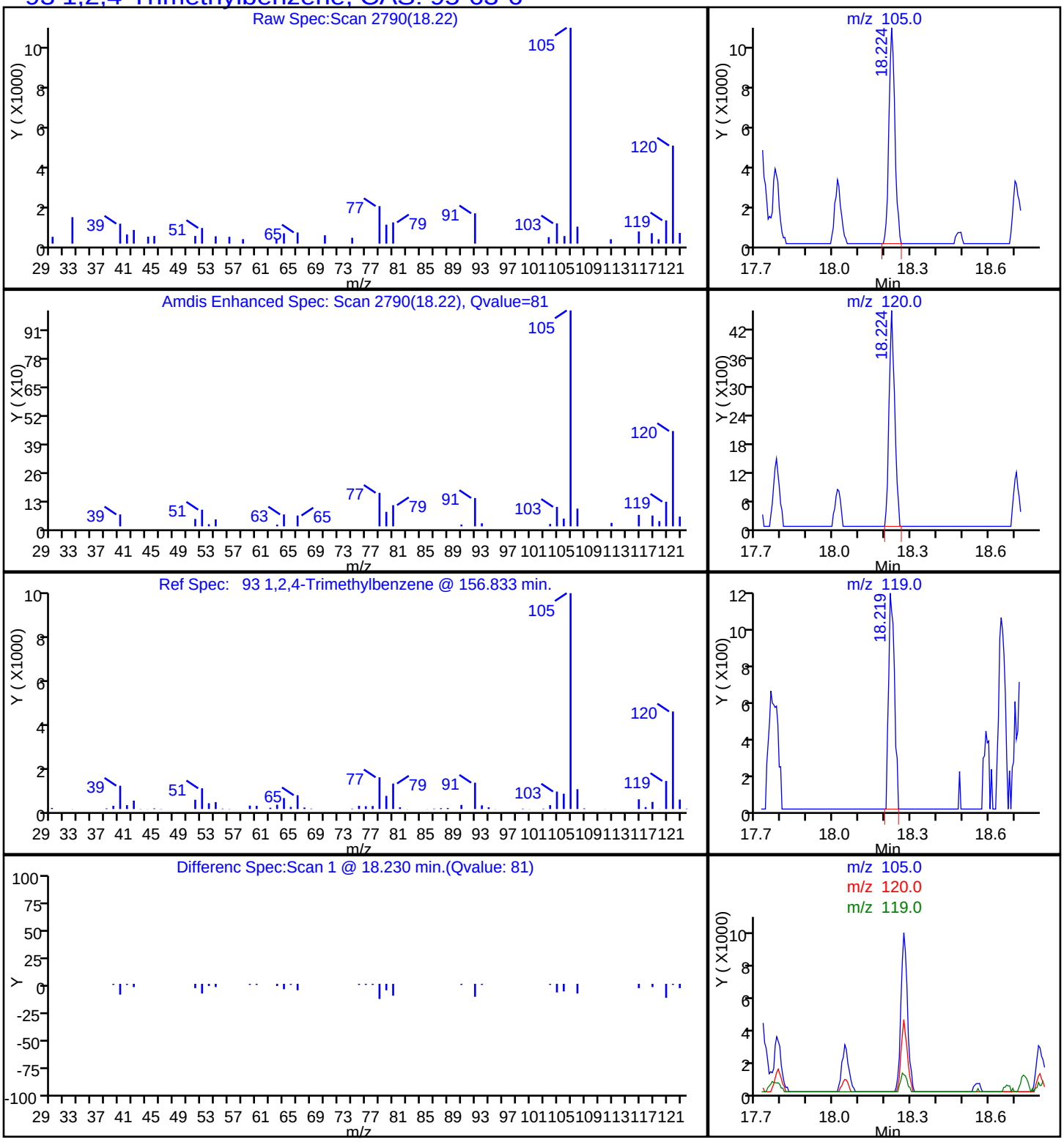


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date: 18-Mar-2014 00:45:30 Instrument ID: ME

Lims ID: 140-1051-A-2 Lab Sample ID: 140-1051-2

Client ID: PCV-IA2-B12

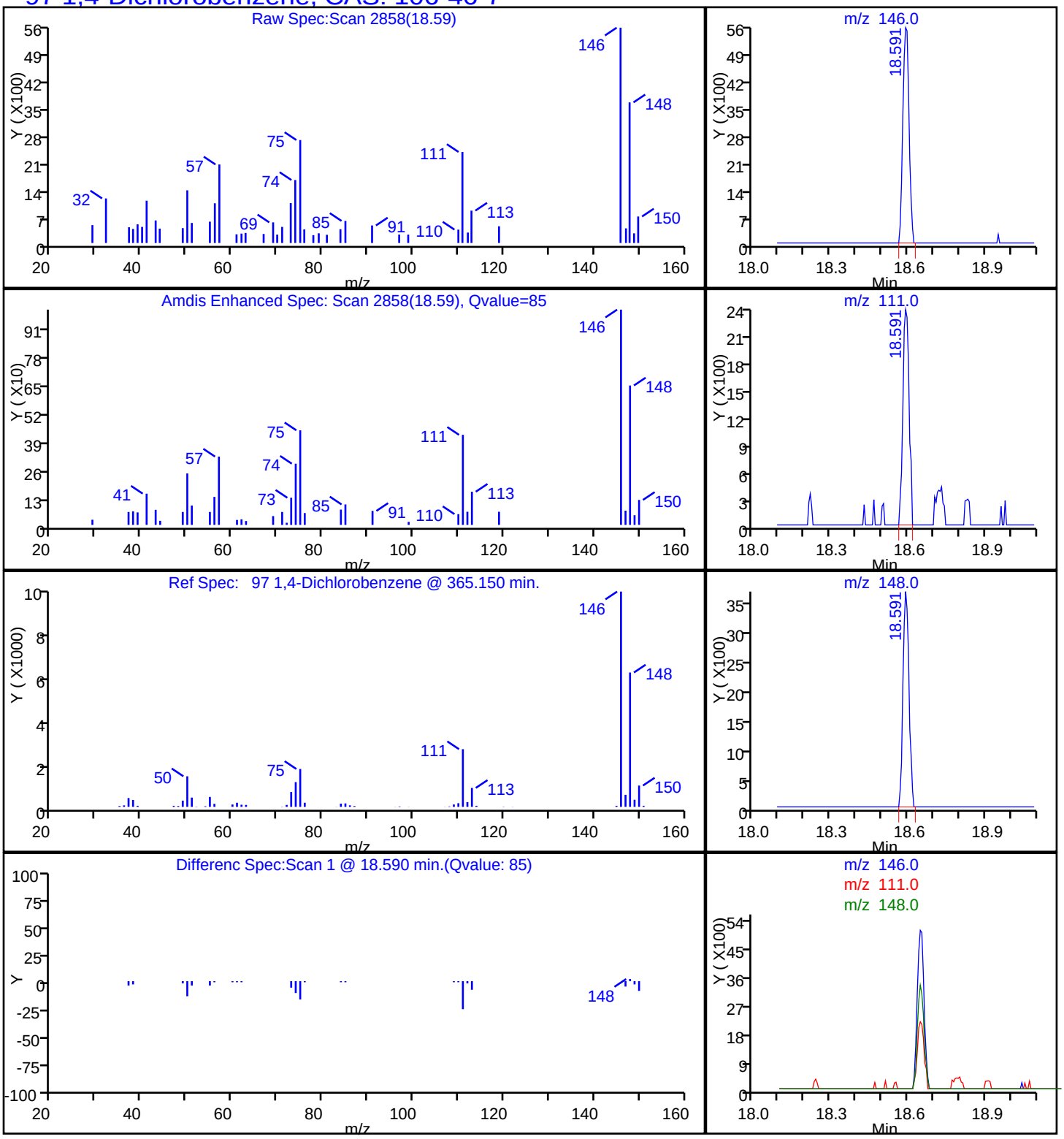
Operator ID: 060487 ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

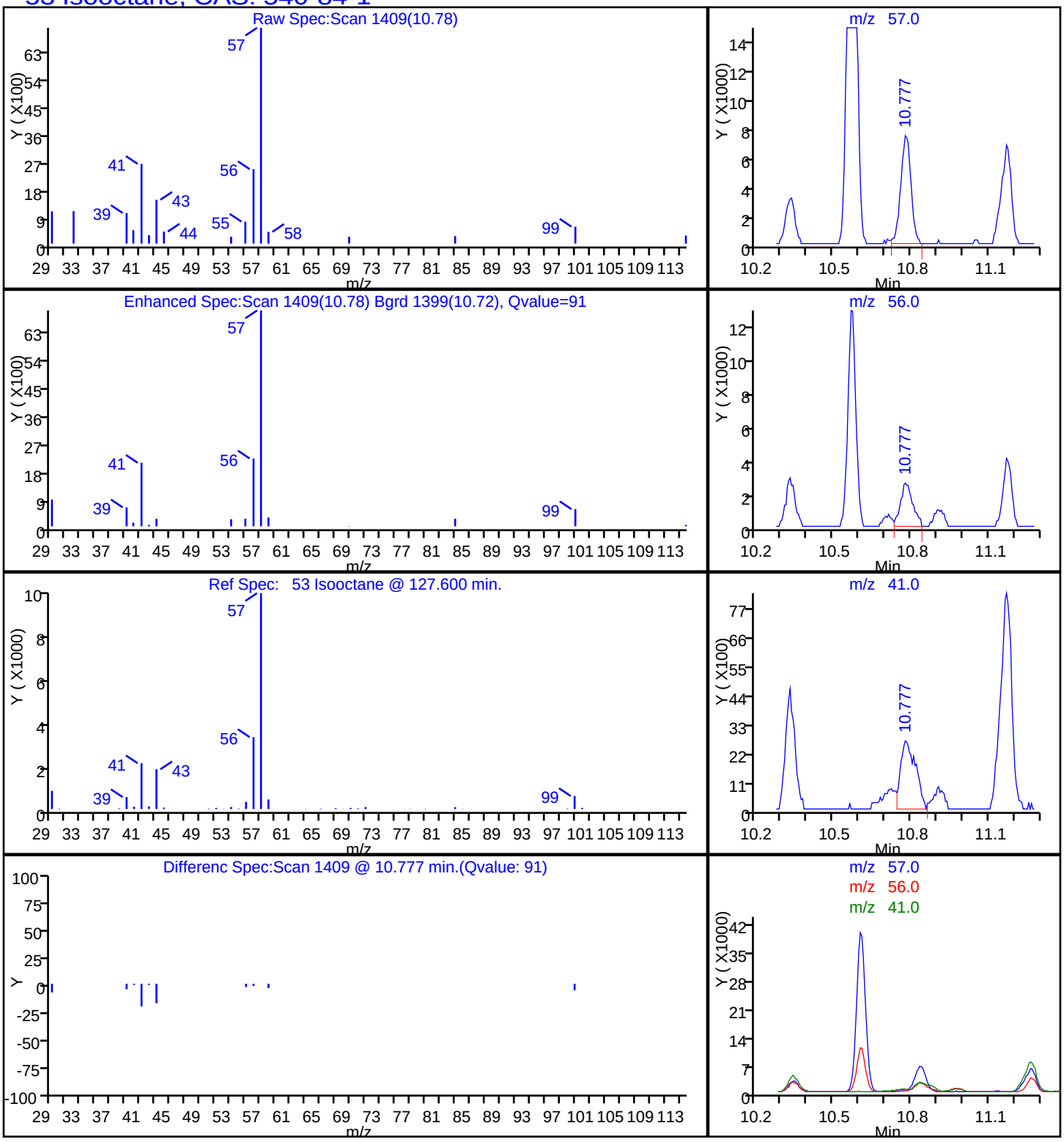


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



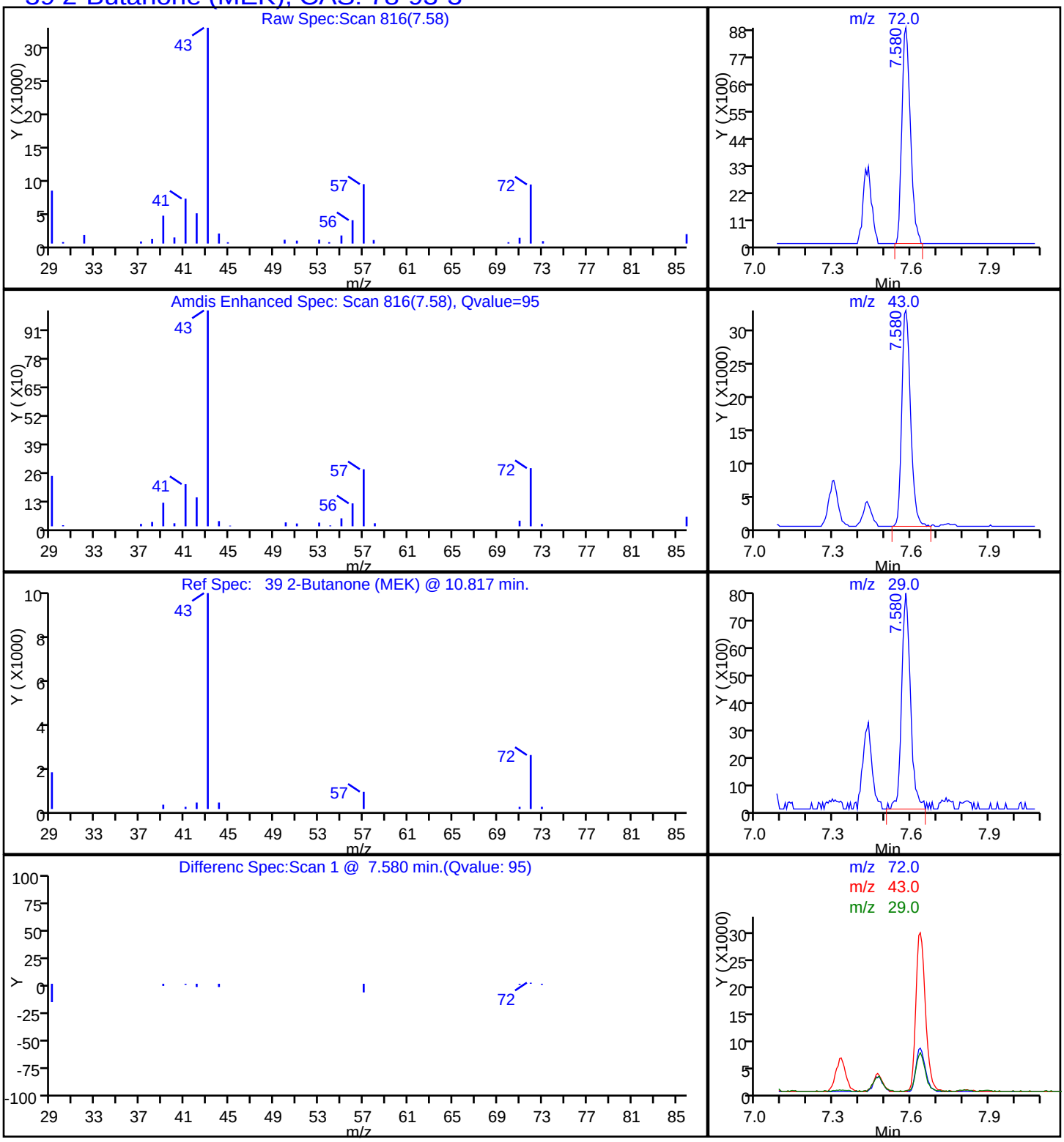
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



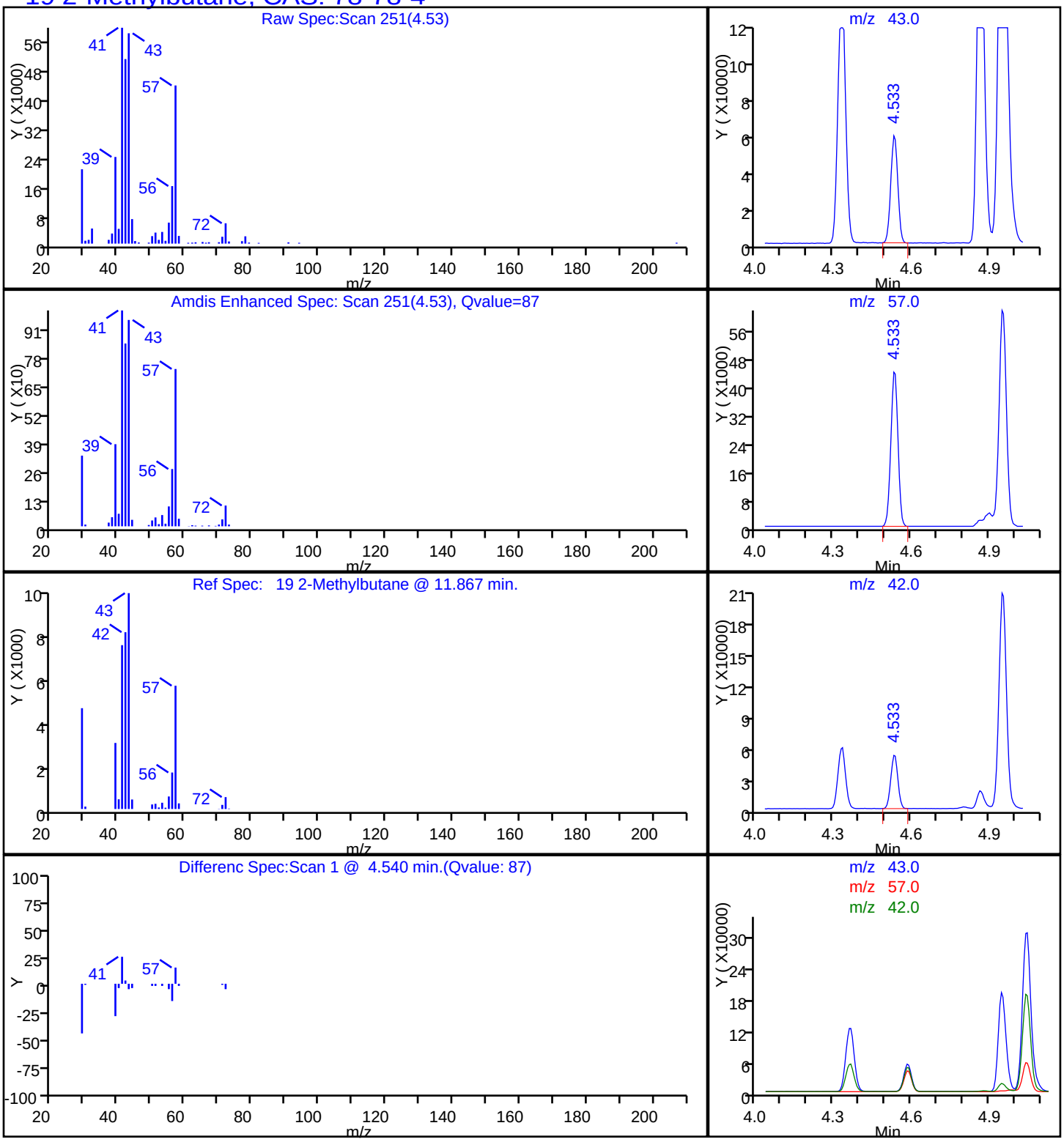
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

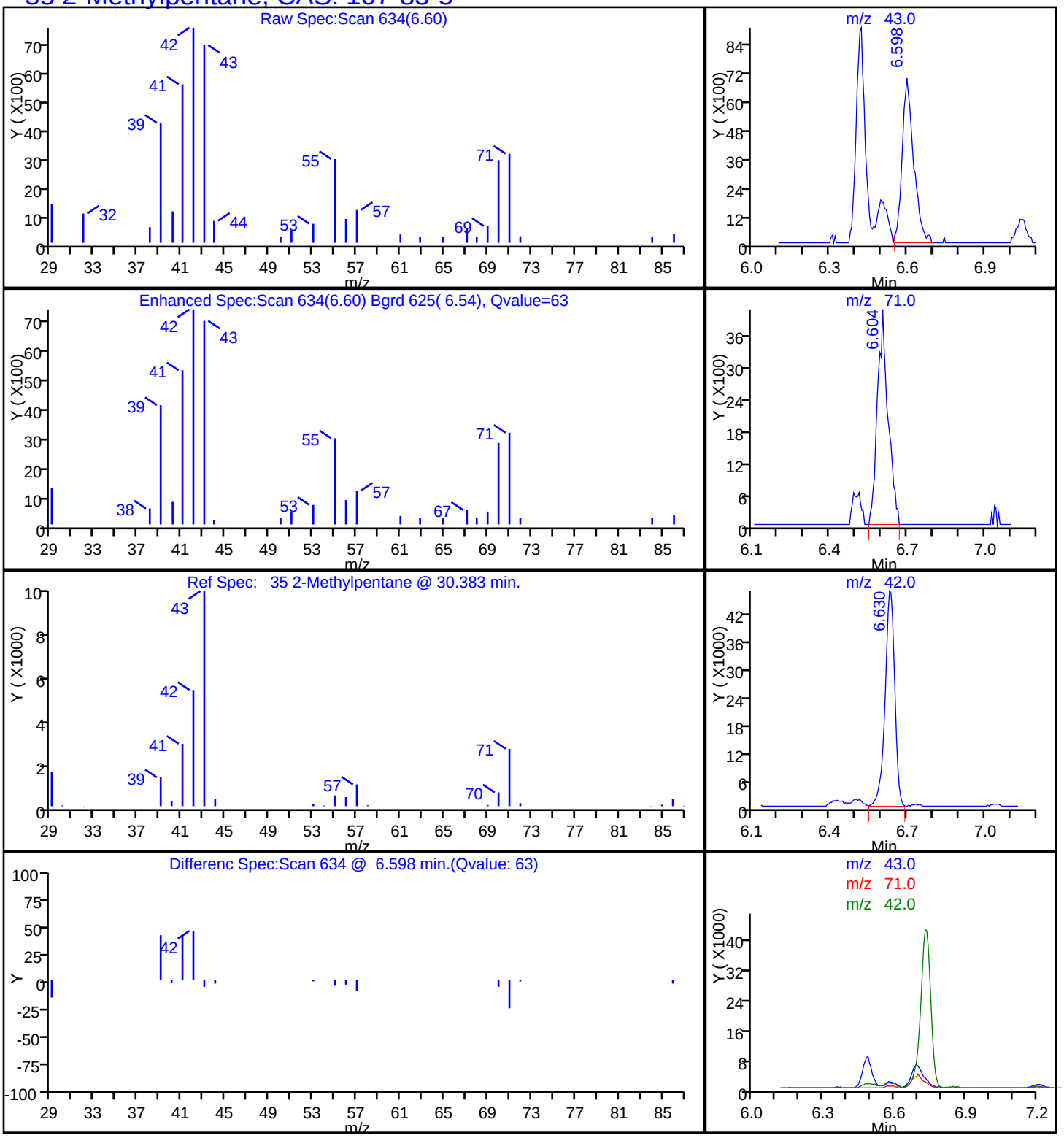
19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5

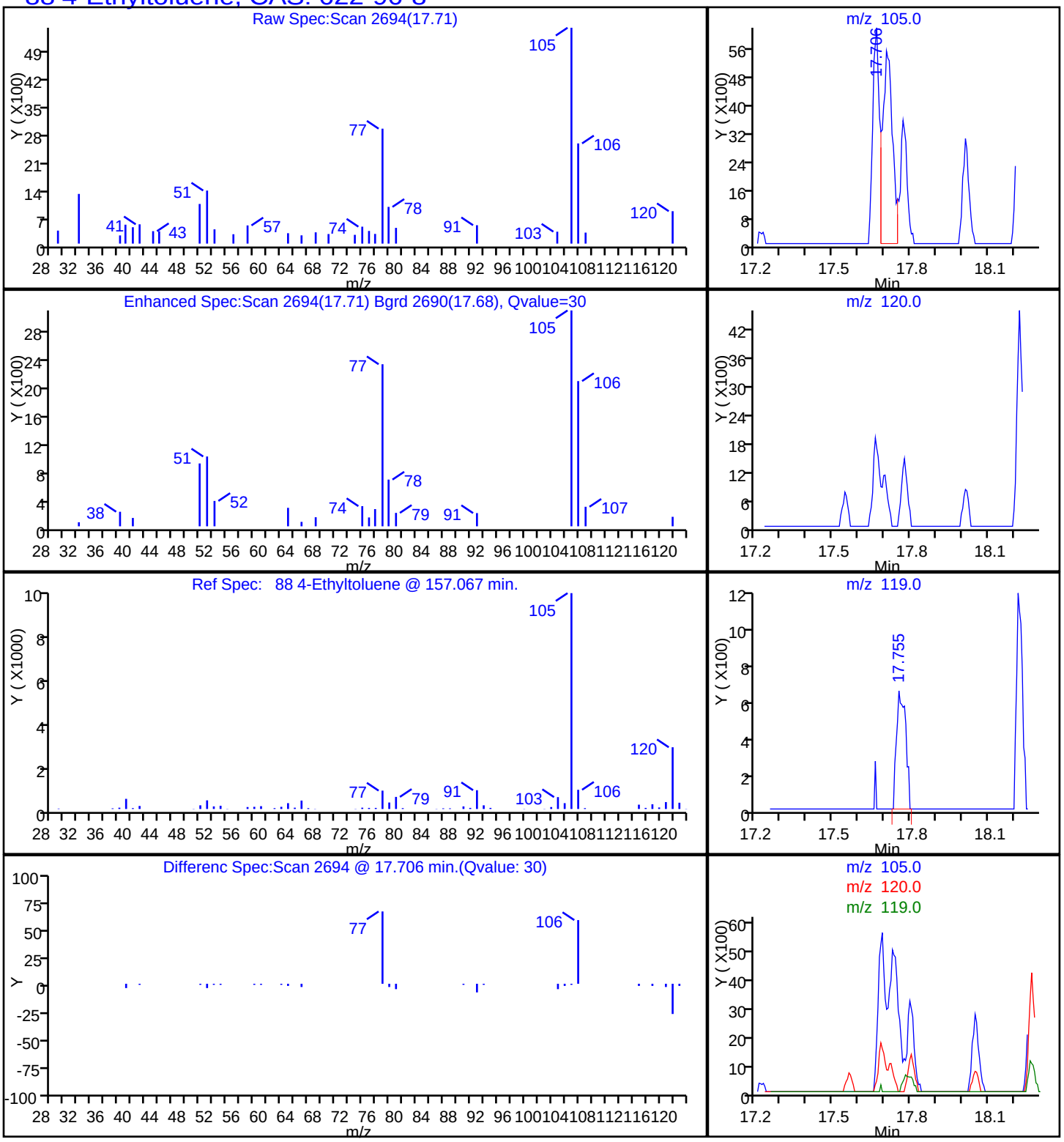


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

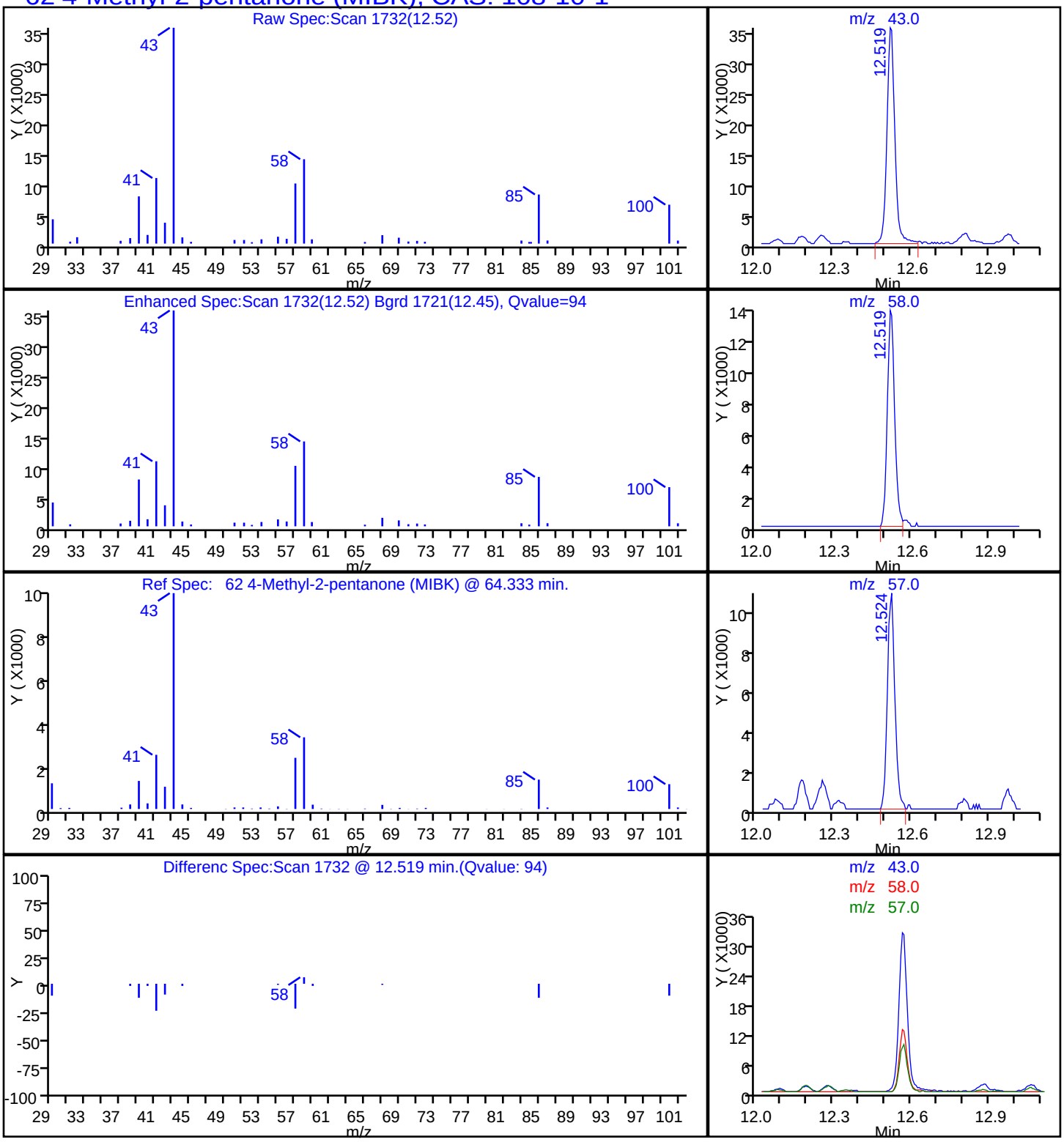


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

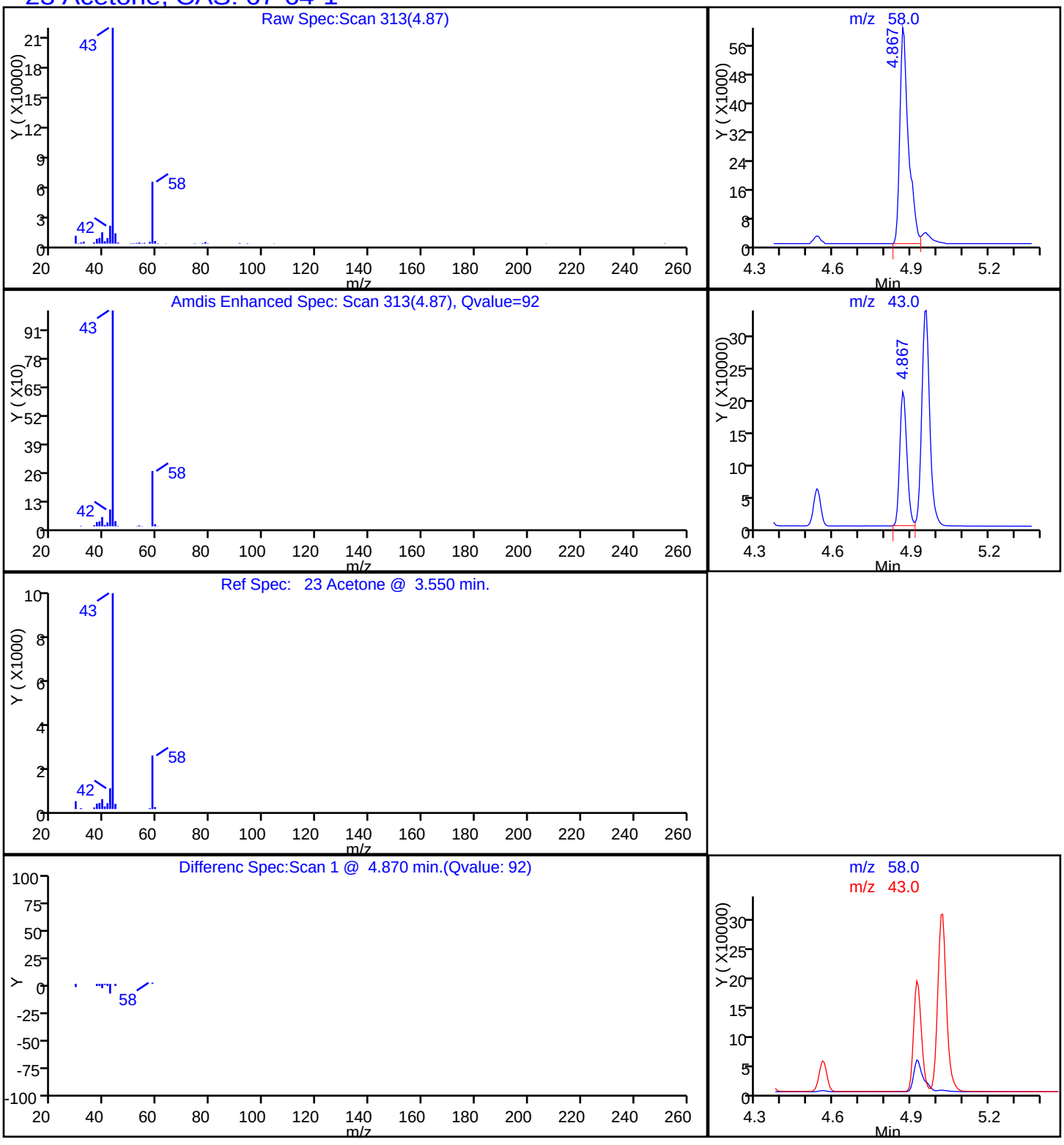


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

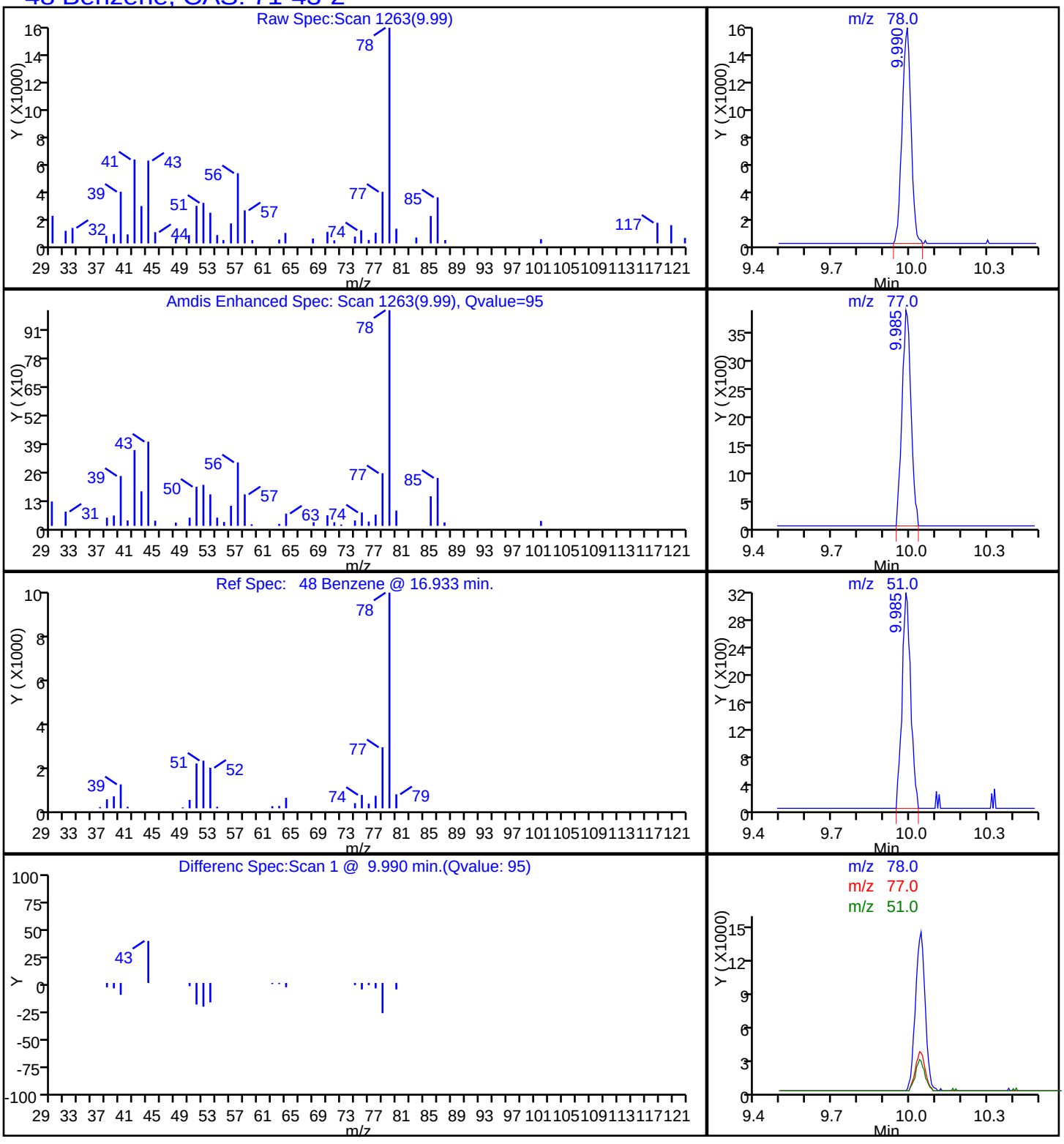


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2

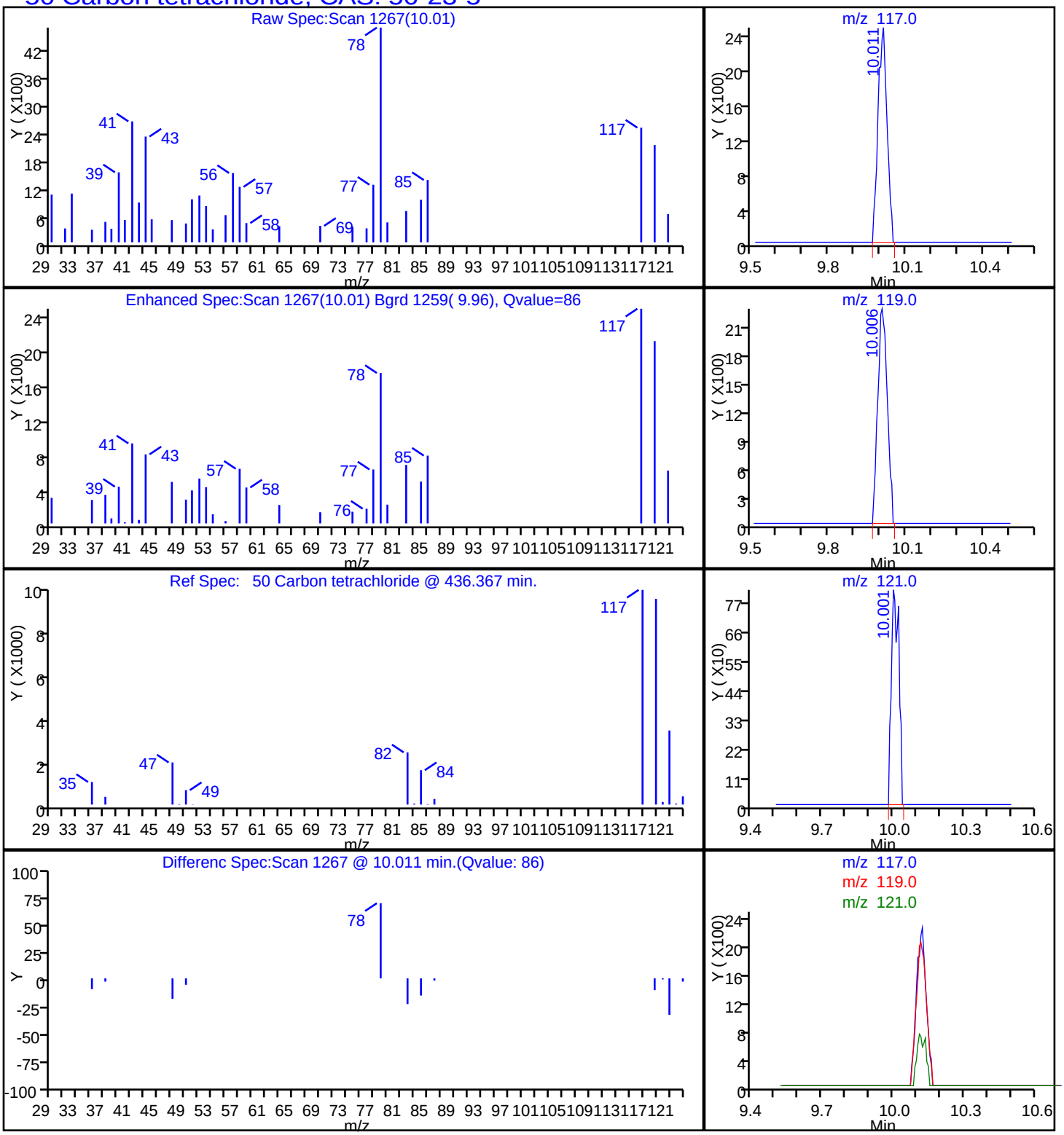


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

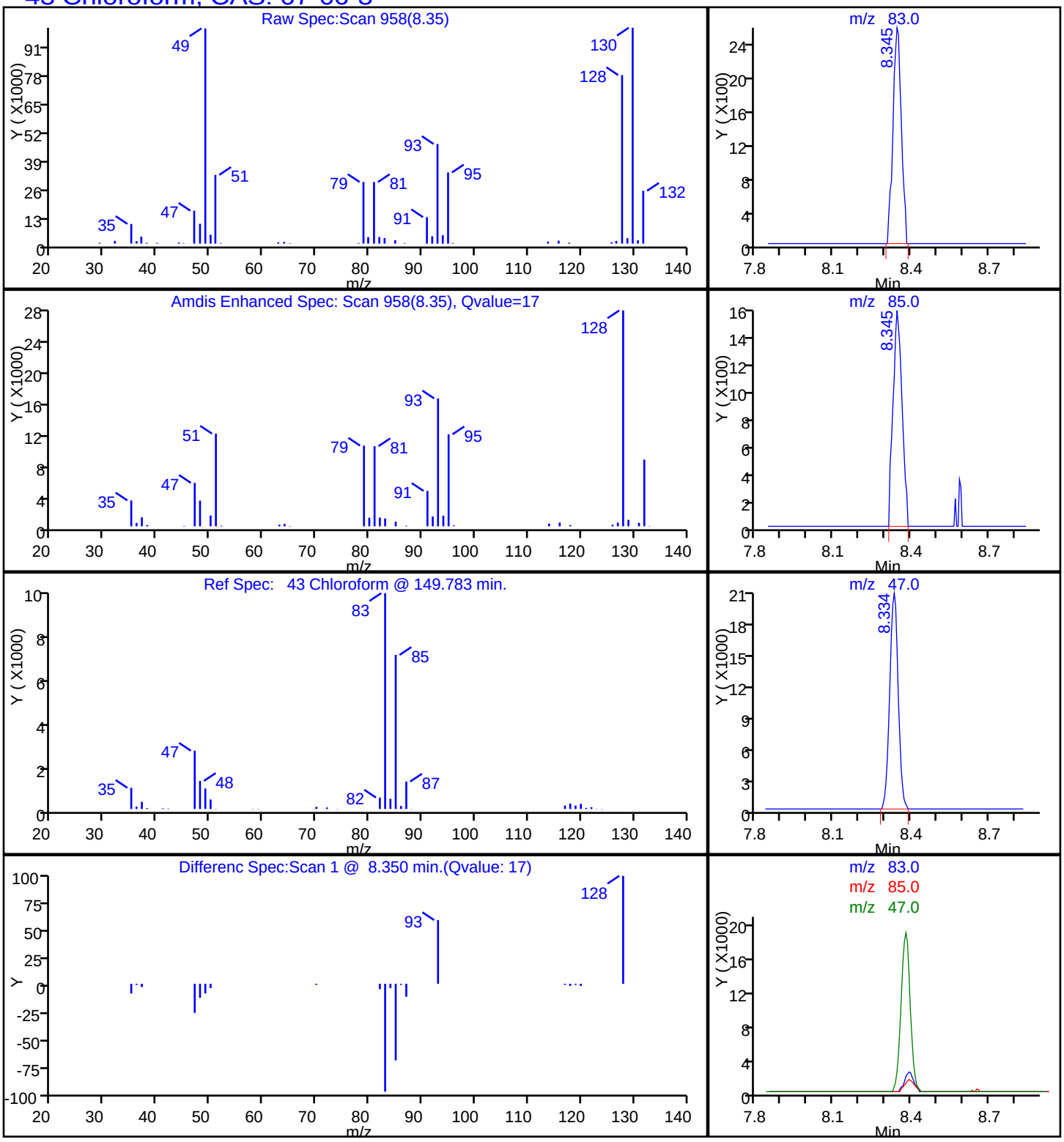
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D
Injection Date: 18-Mar-2014 00:45:30 Instrument ID: ME
Lims ID: 140-1051-A-2 Lab Sample ID: 140-1051-2
Client ID: PCV-IA2-B12
Operator ID: 060487 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



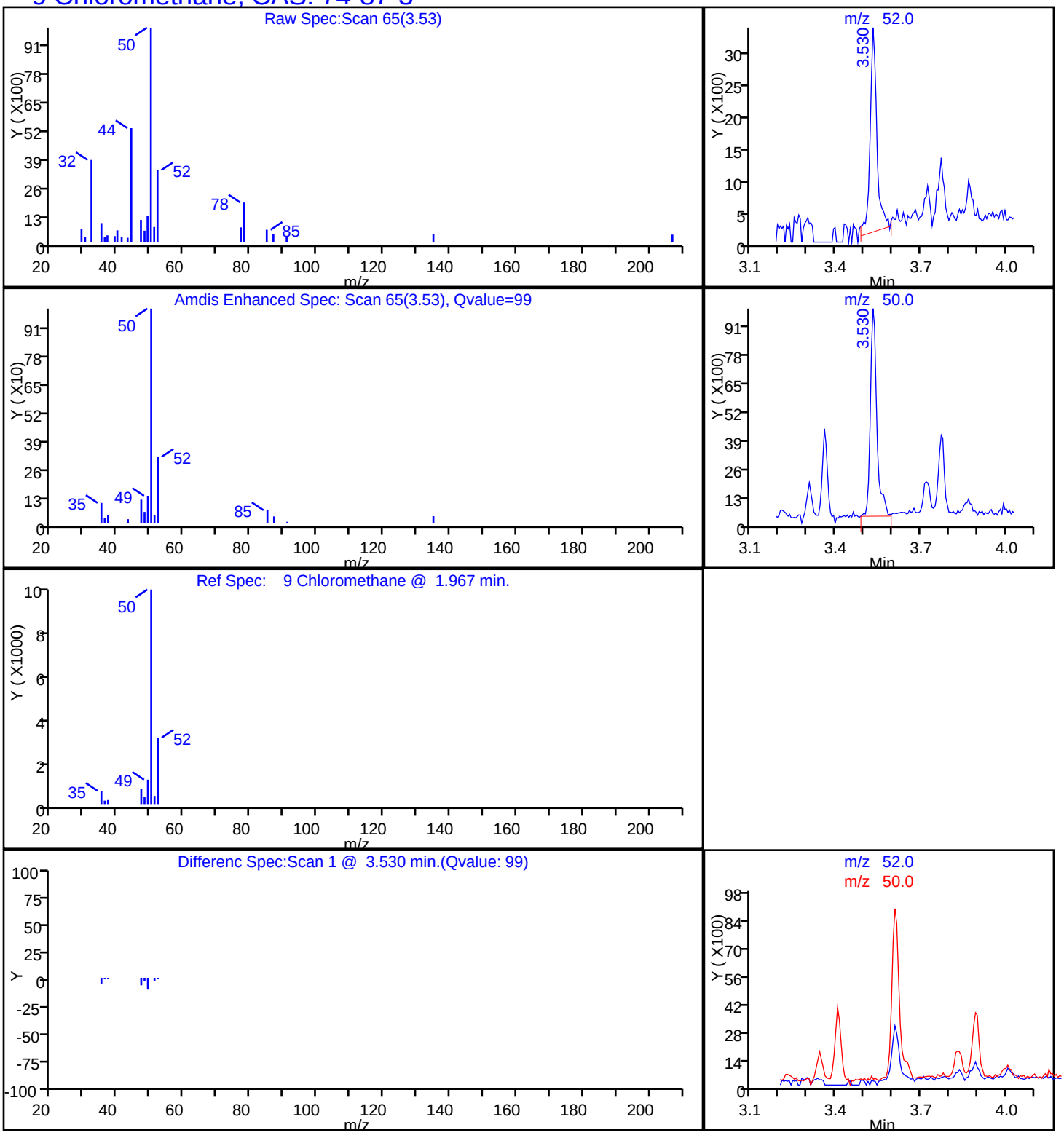
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

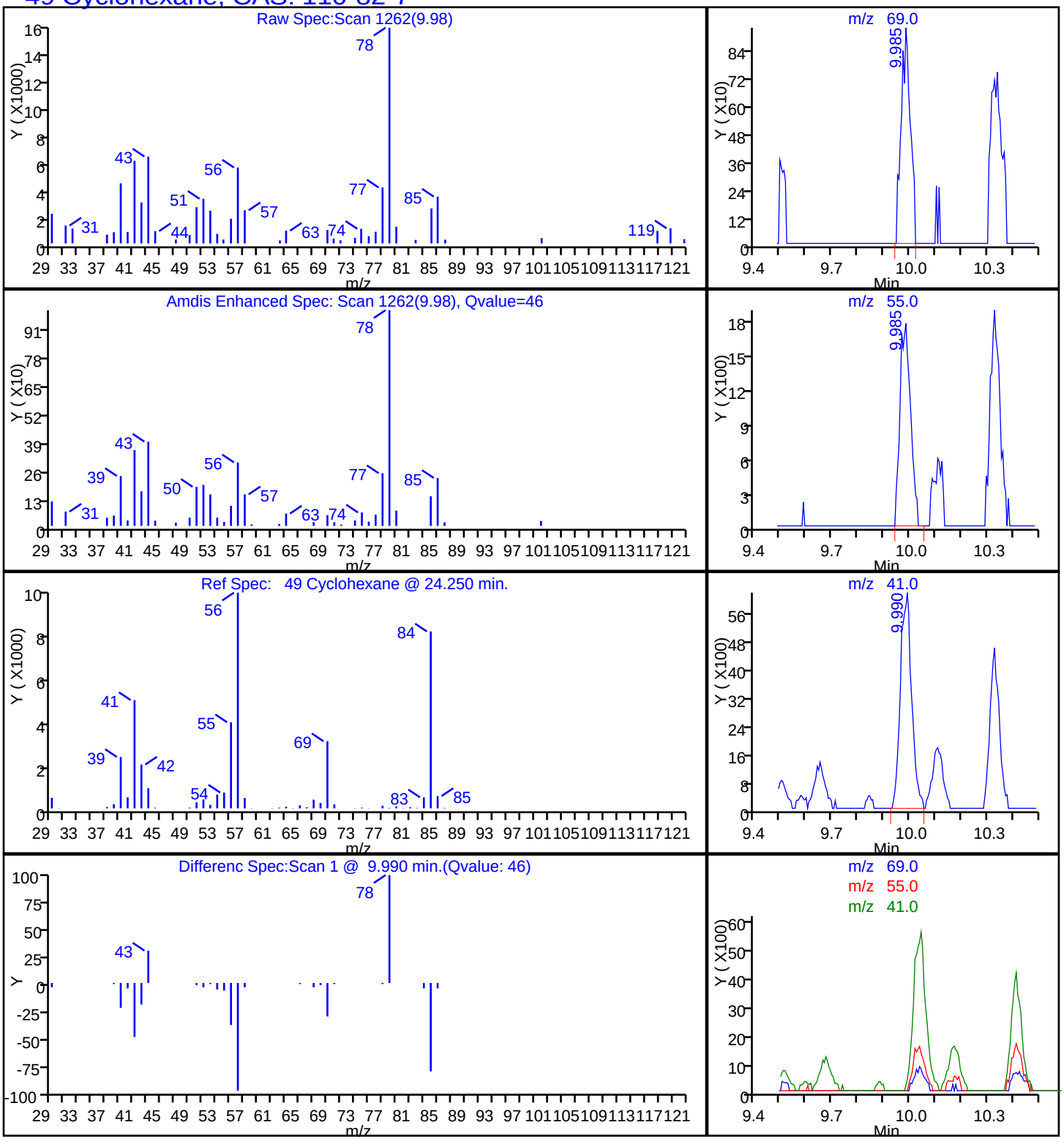


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D		
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2
Client ID:	PCV-IA2-B12		
Operator ID:	060487	ALS Bottle#:	10 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7

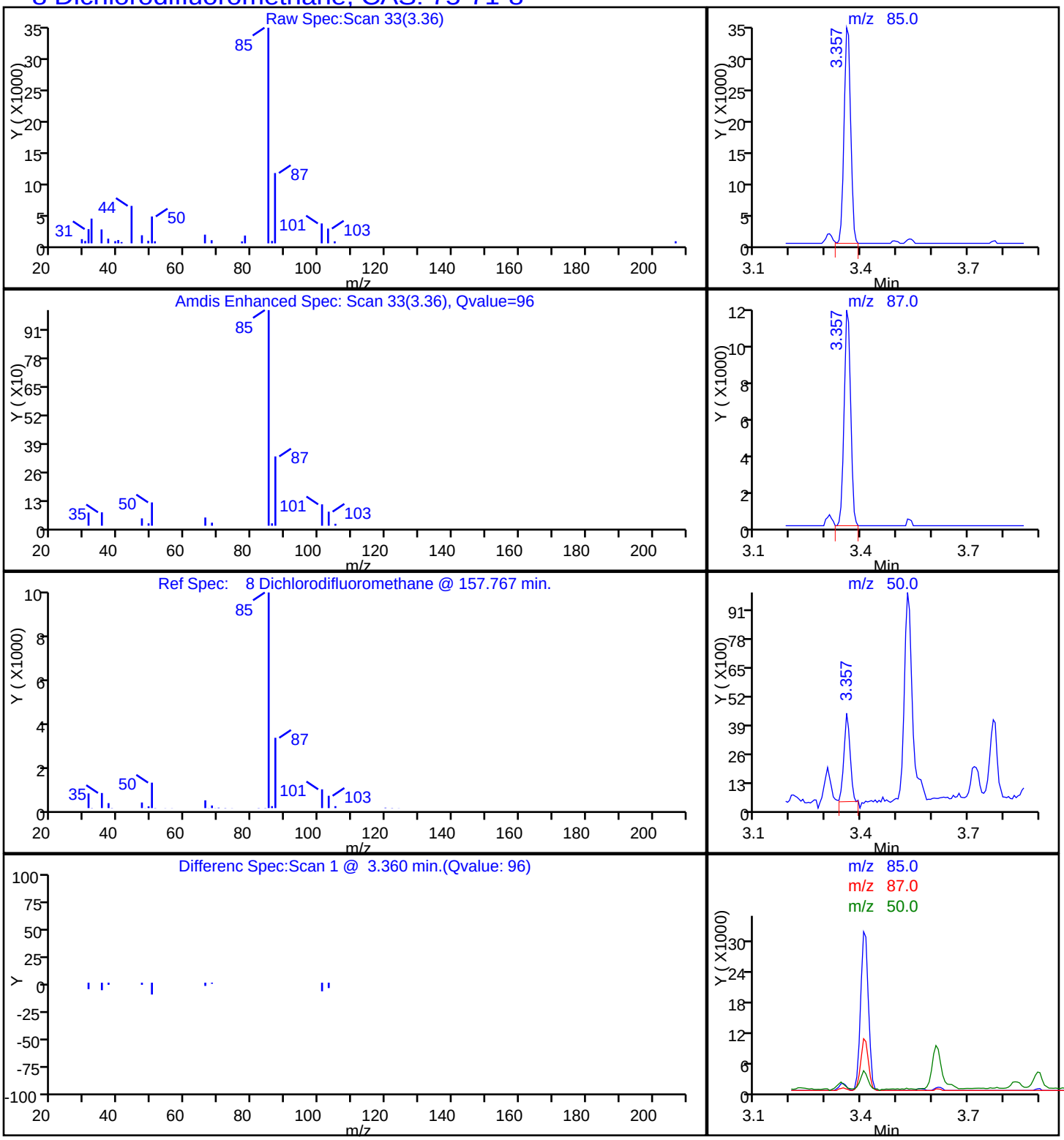


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

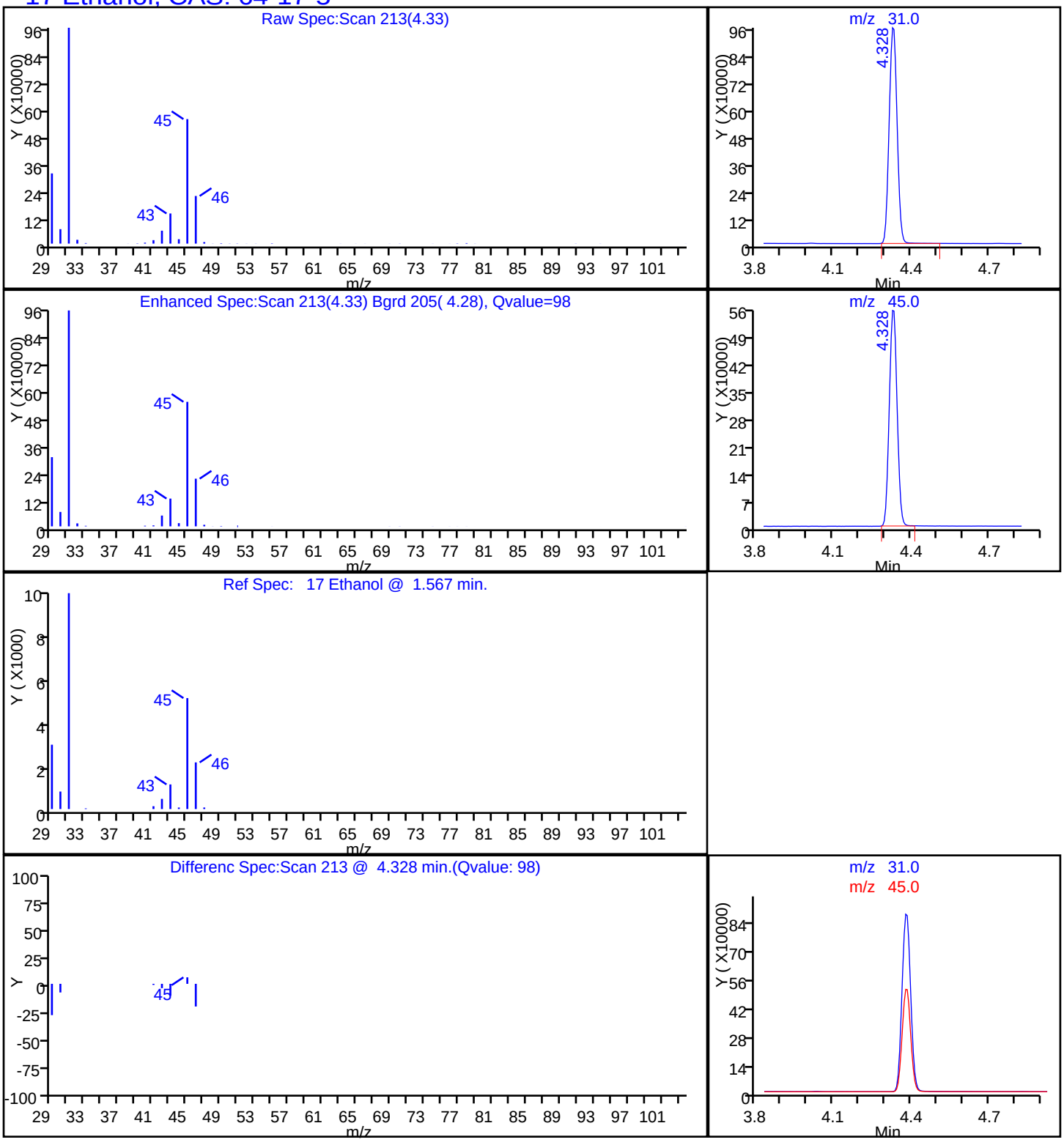
8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

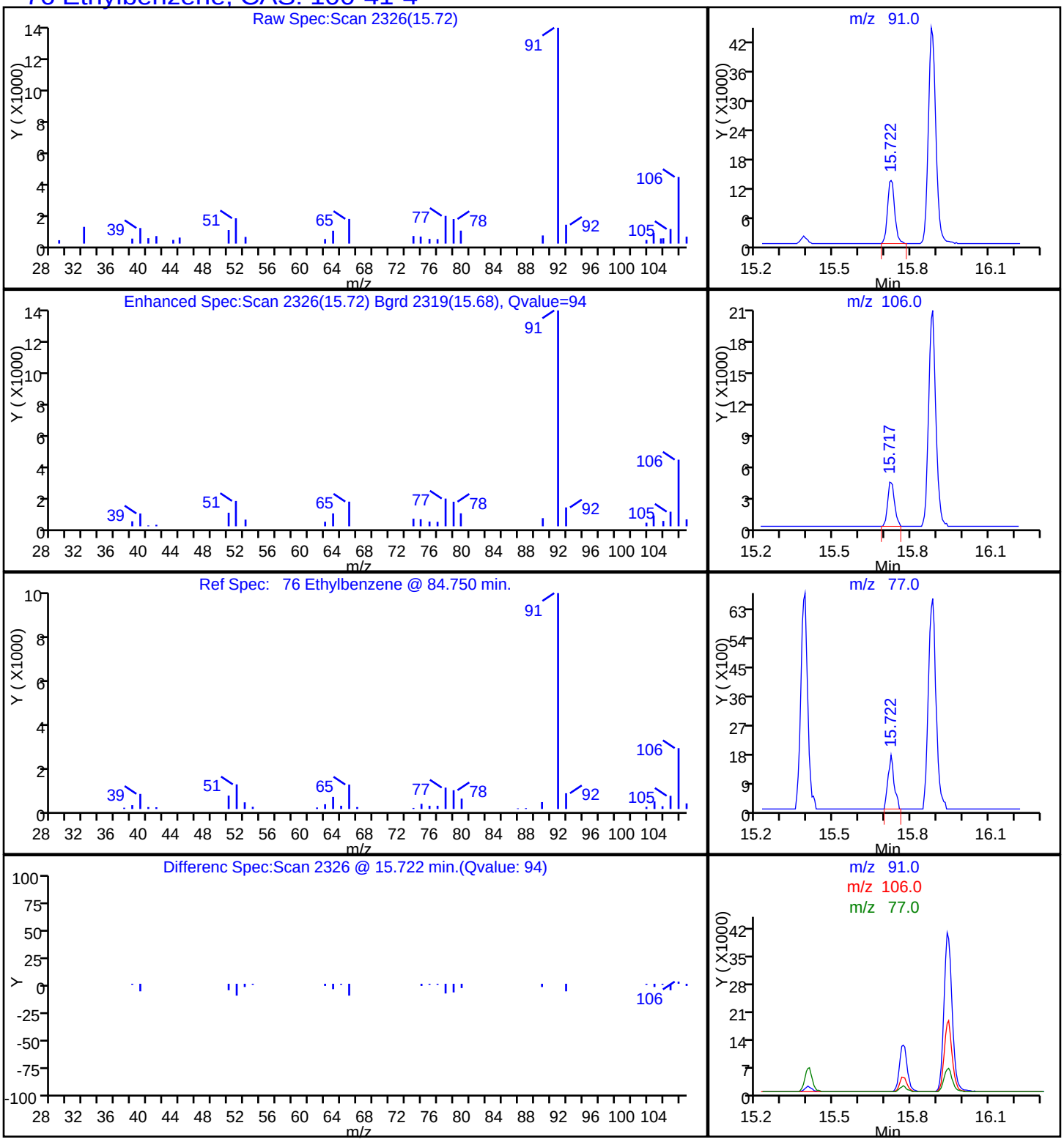


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

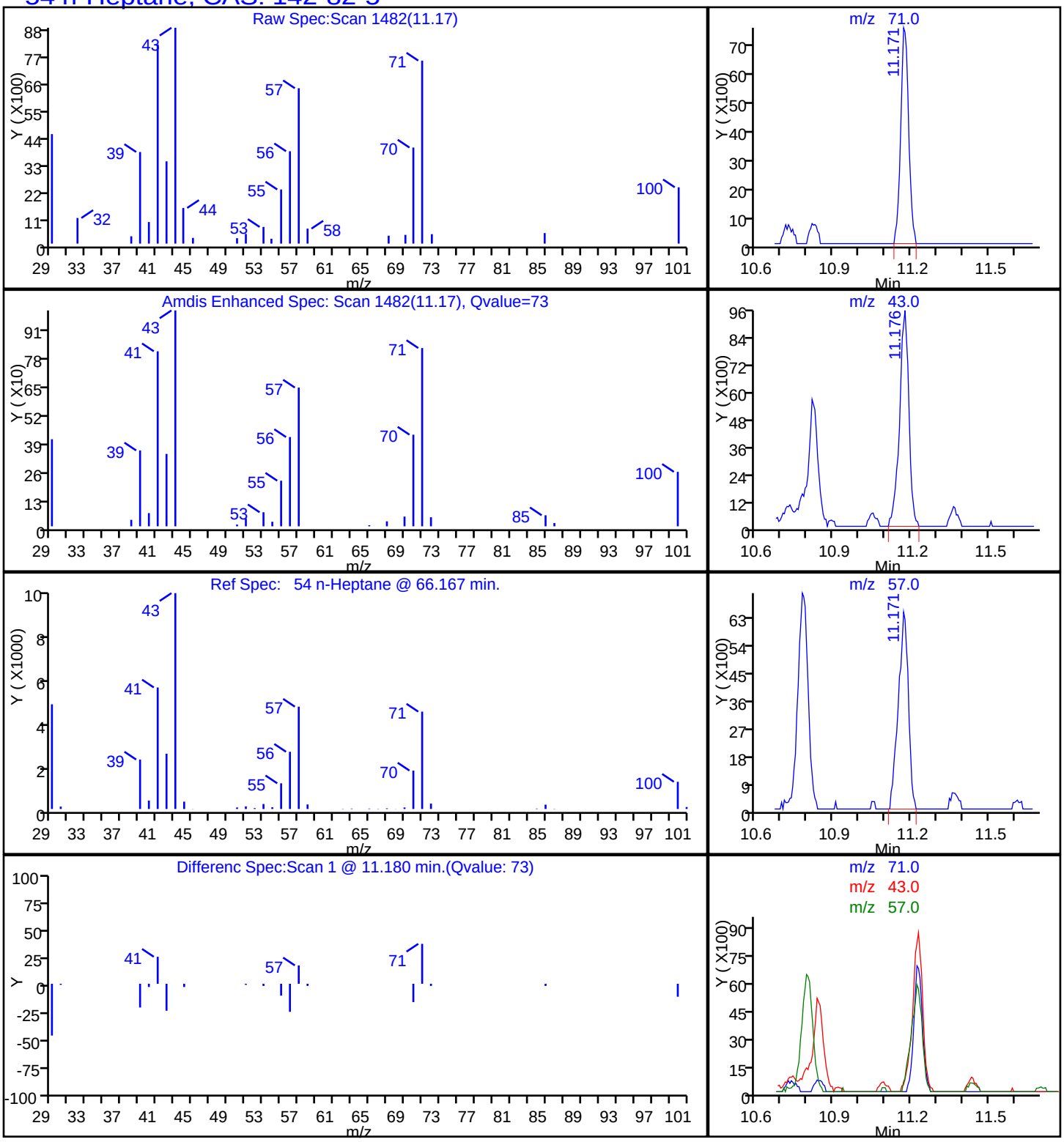


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

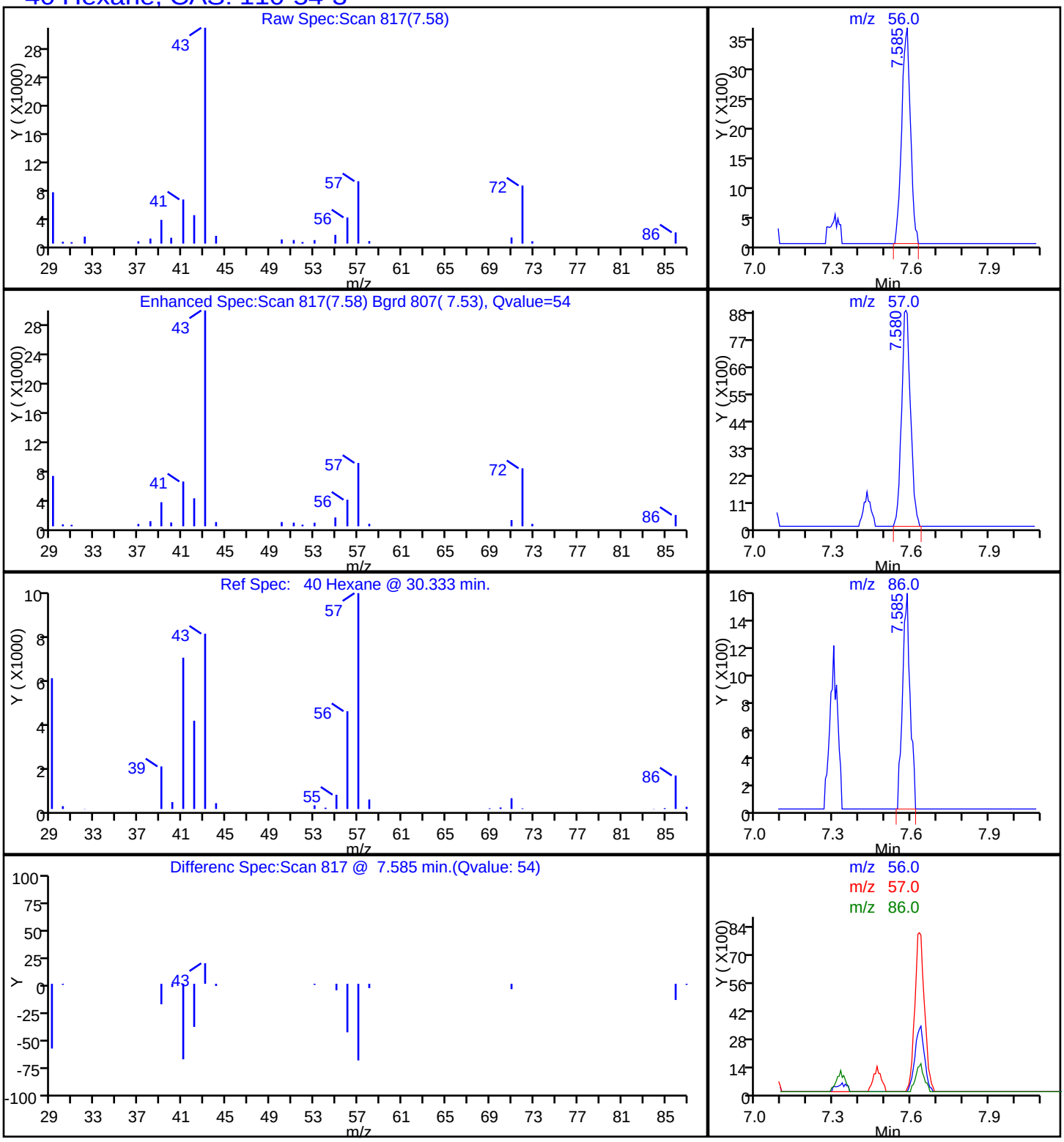


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

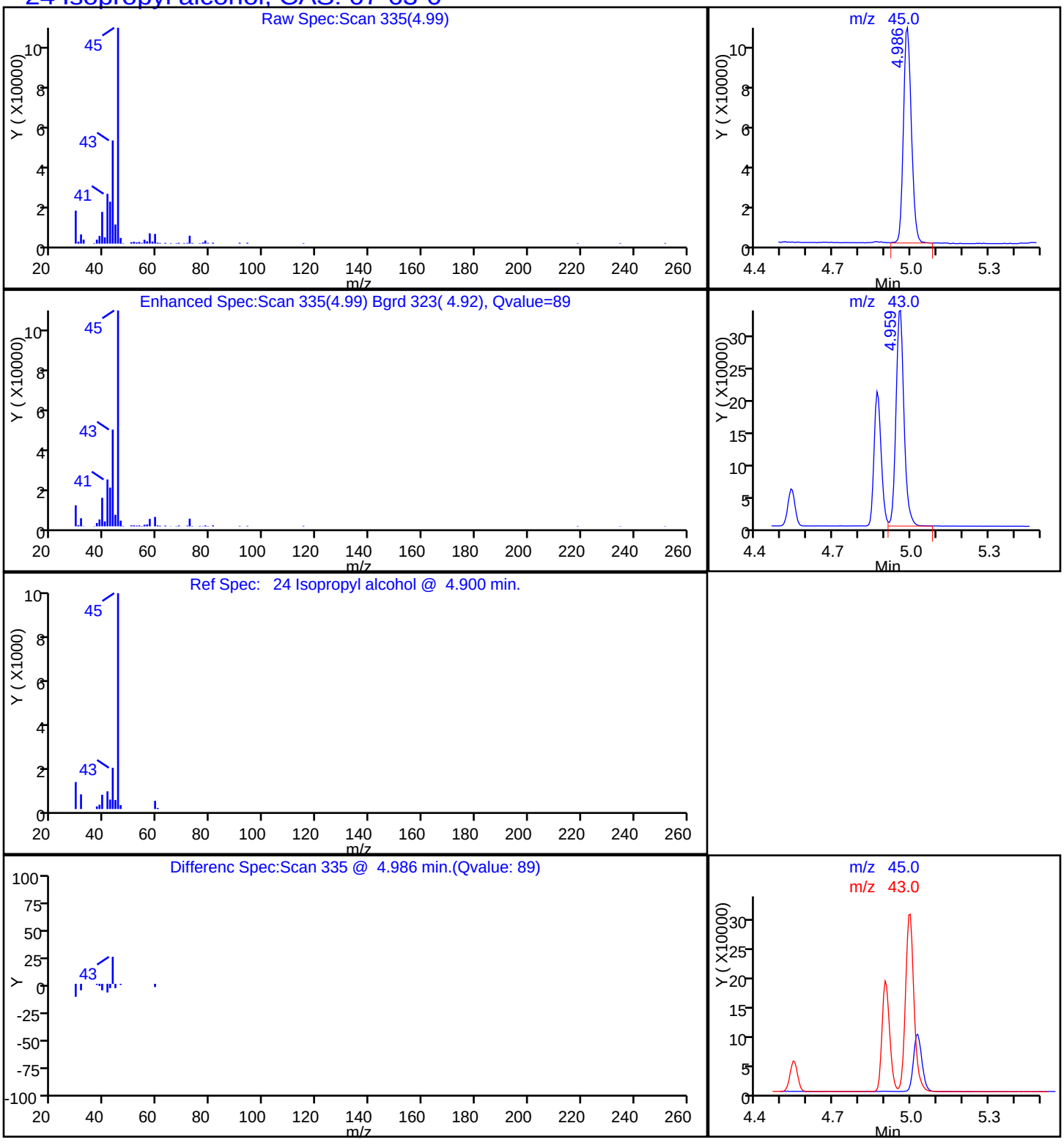


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

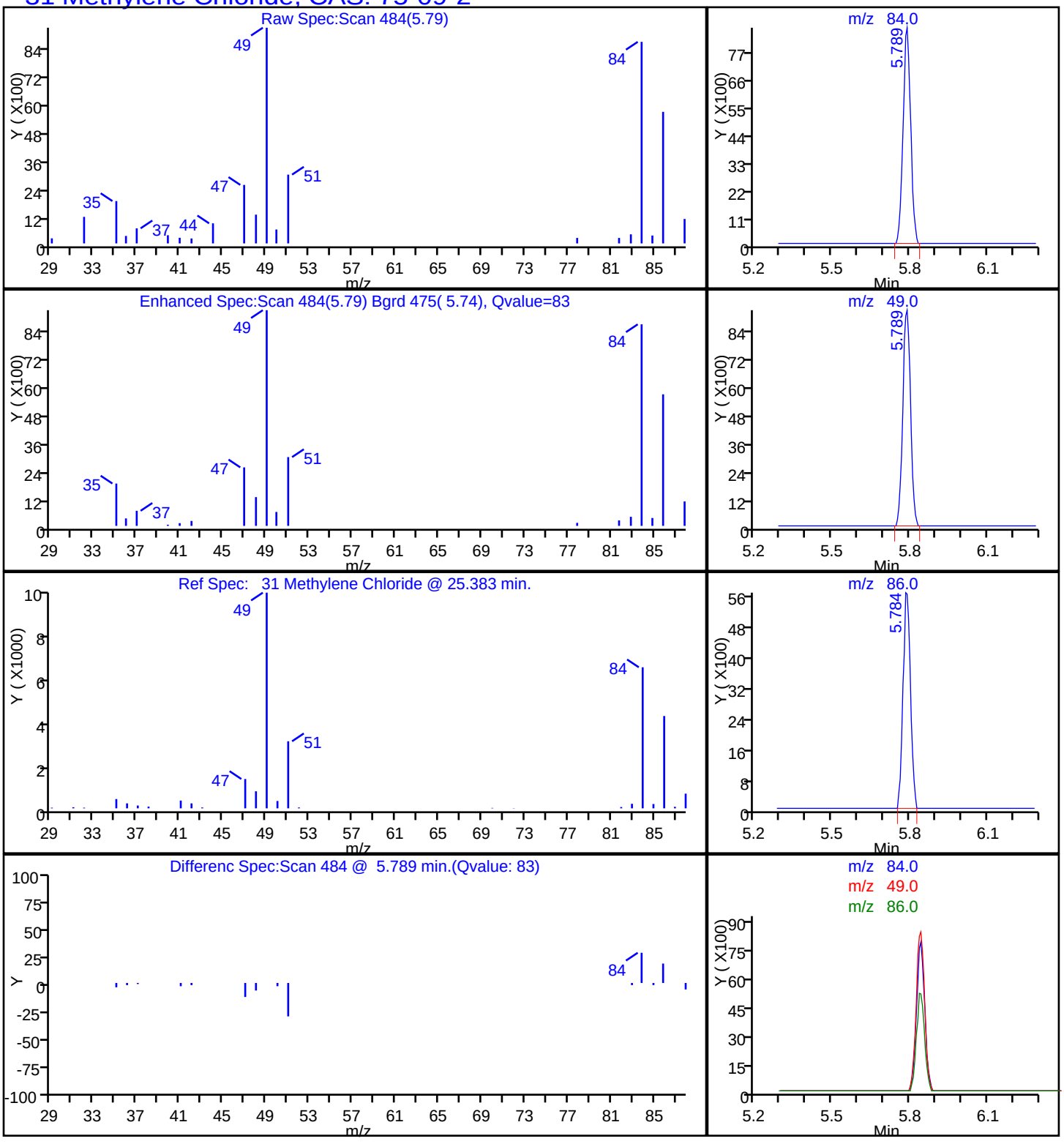


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

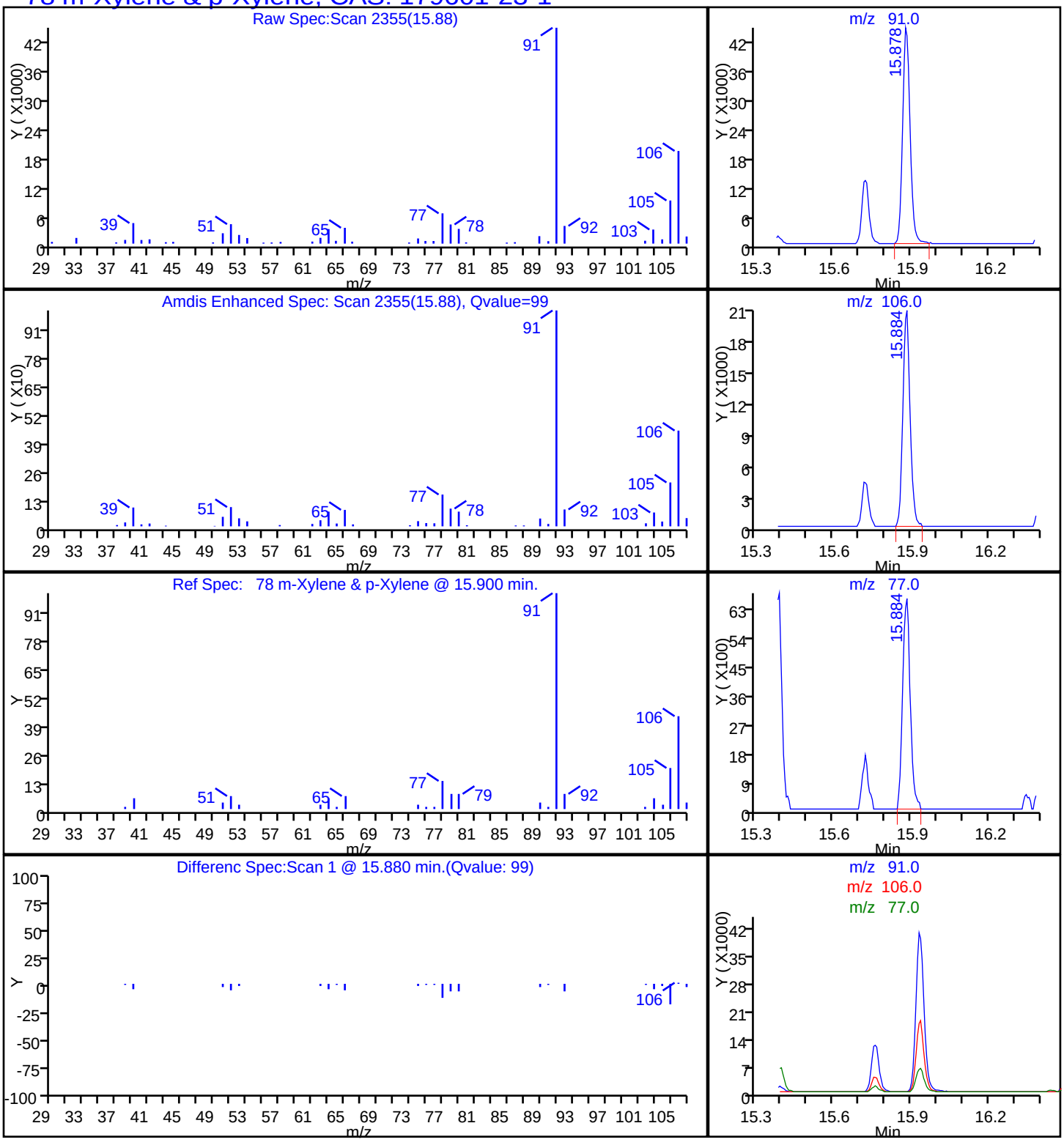


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

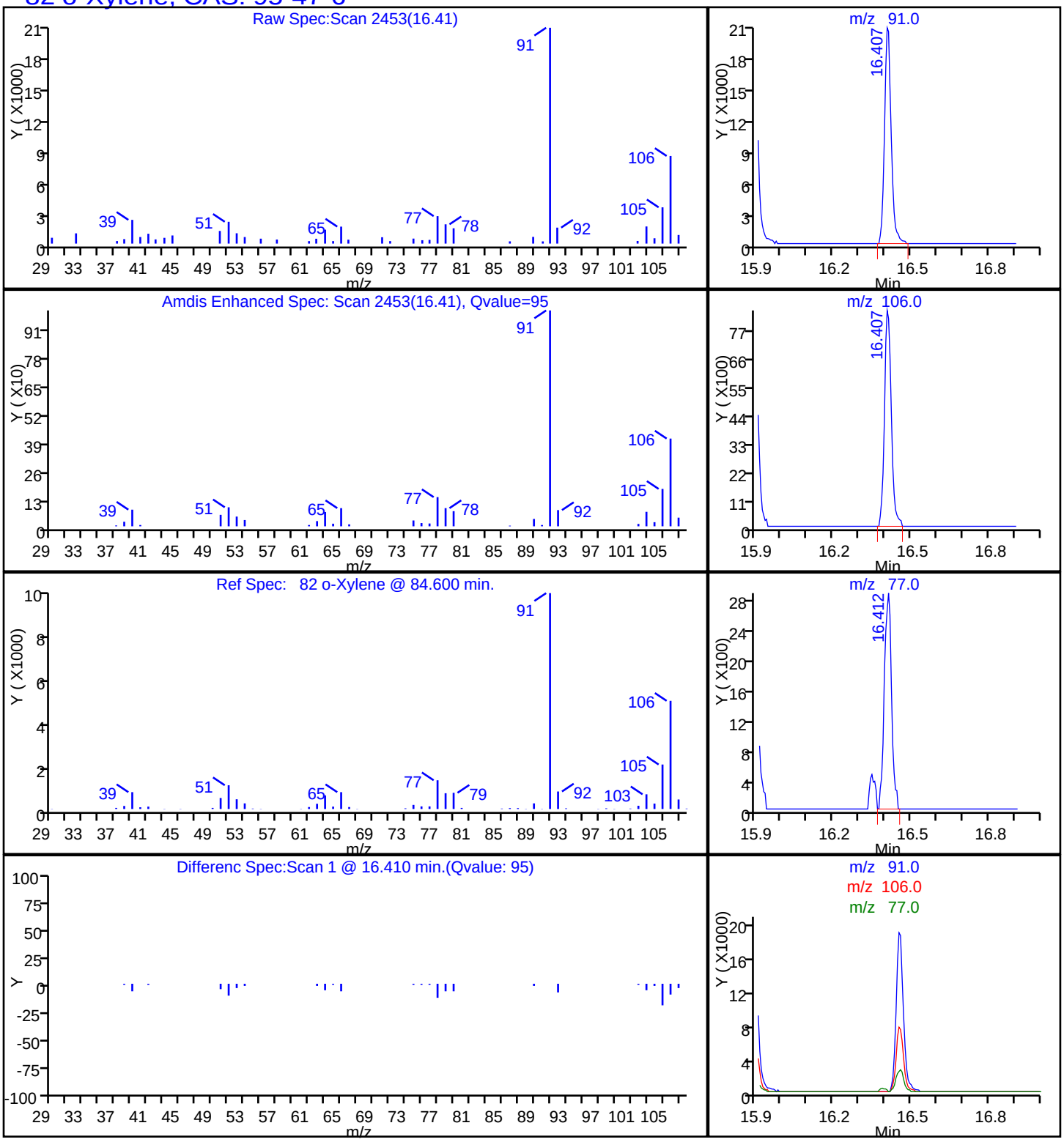


Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



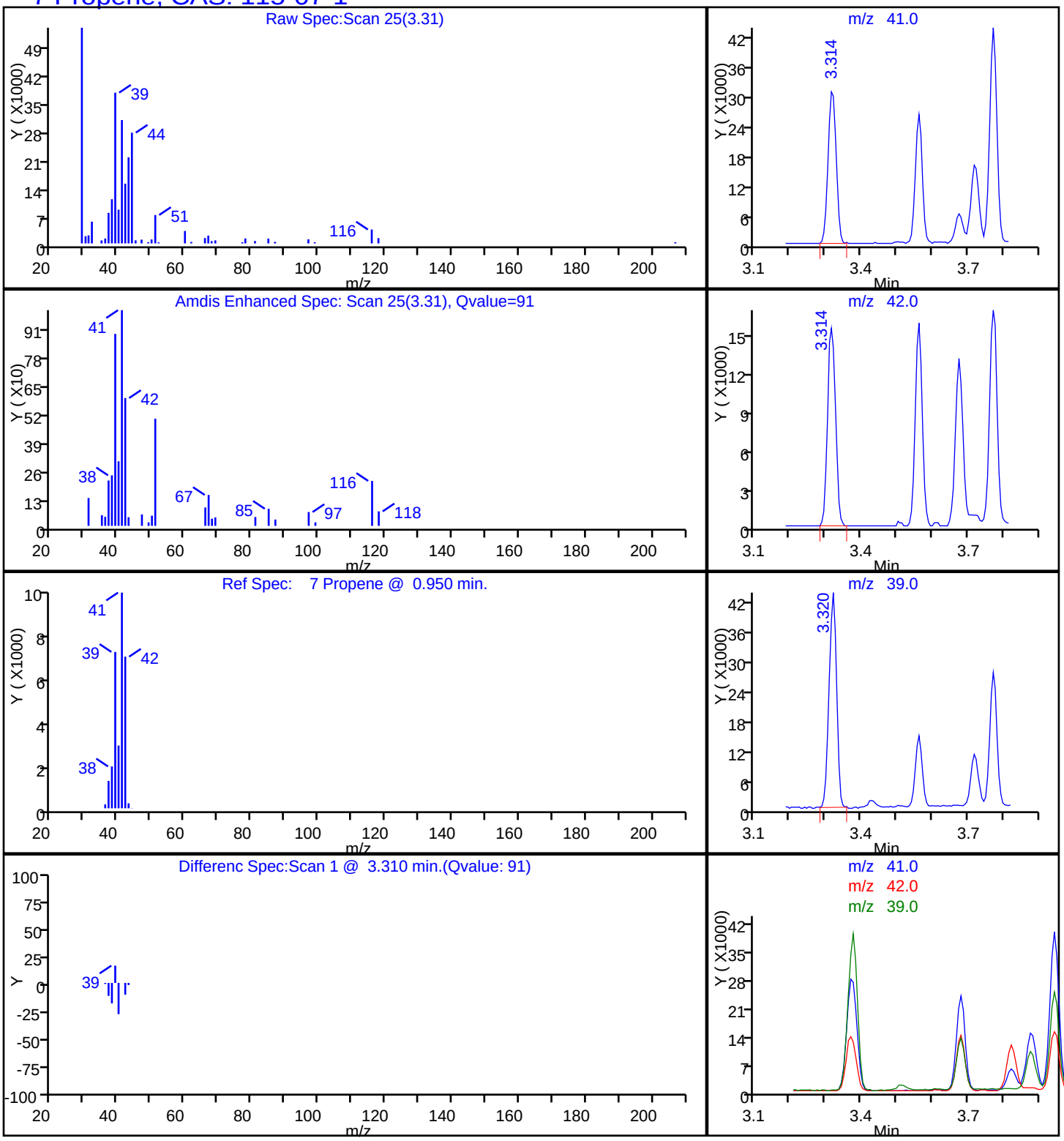
Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



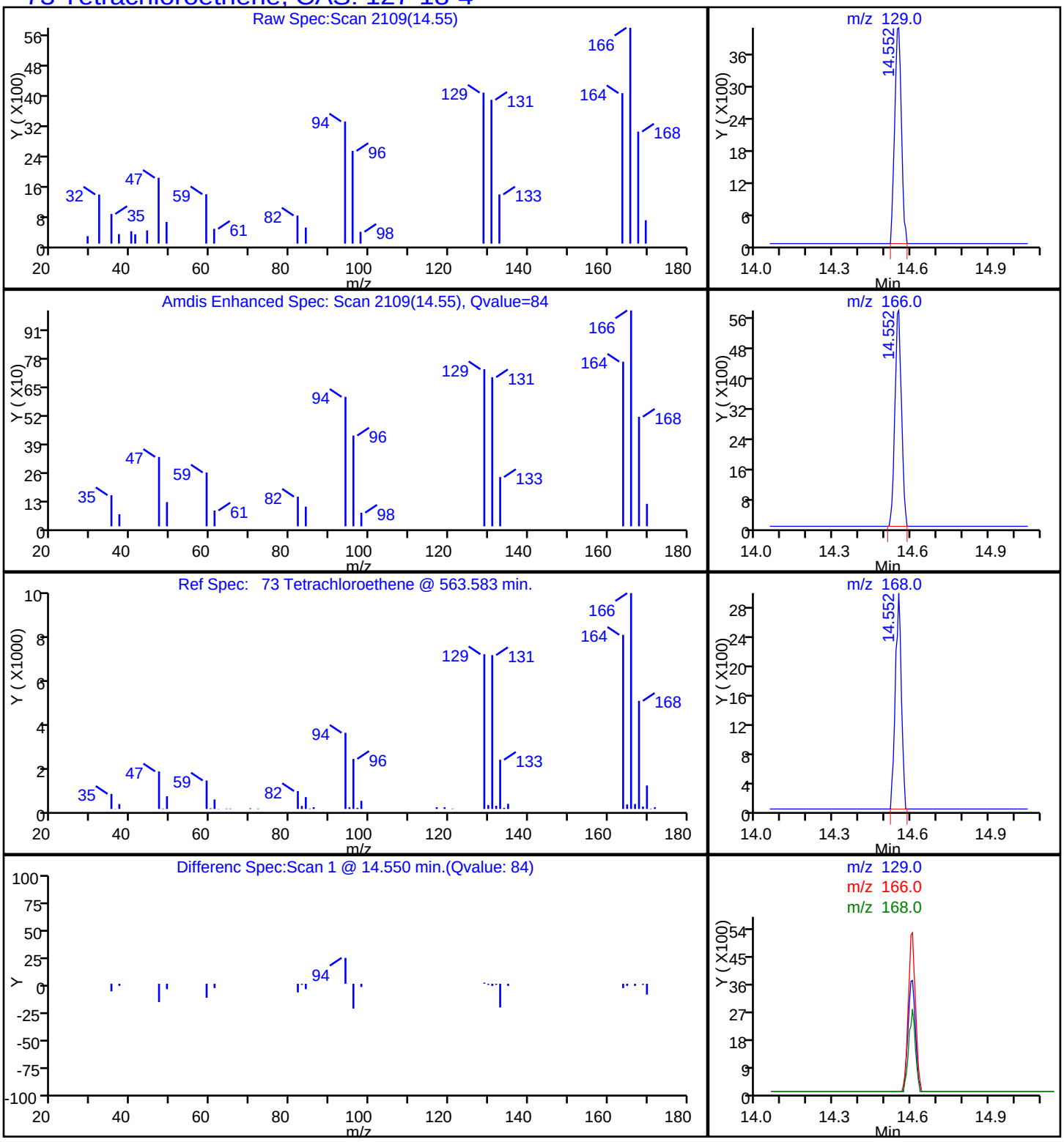
Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



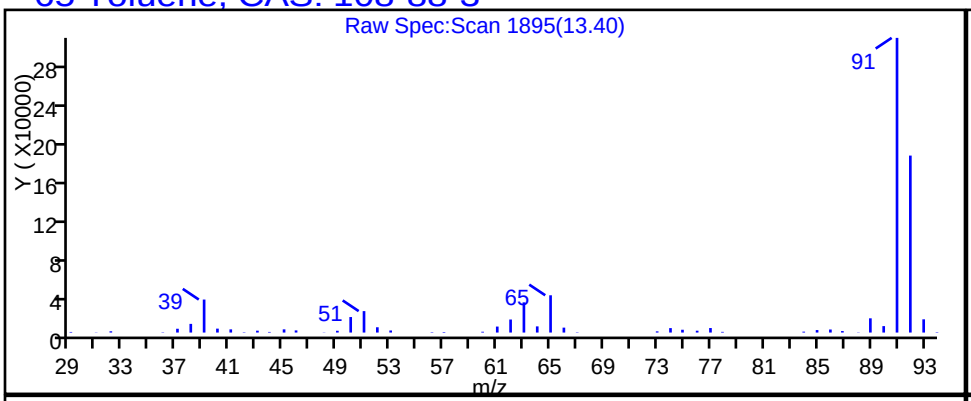
Report Date: 25-Mar-2014 14:36:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

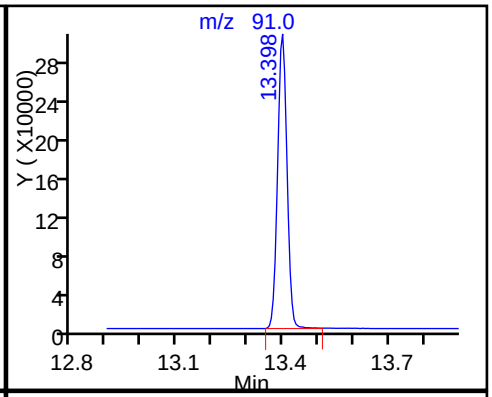
TestAmerica Knoxville

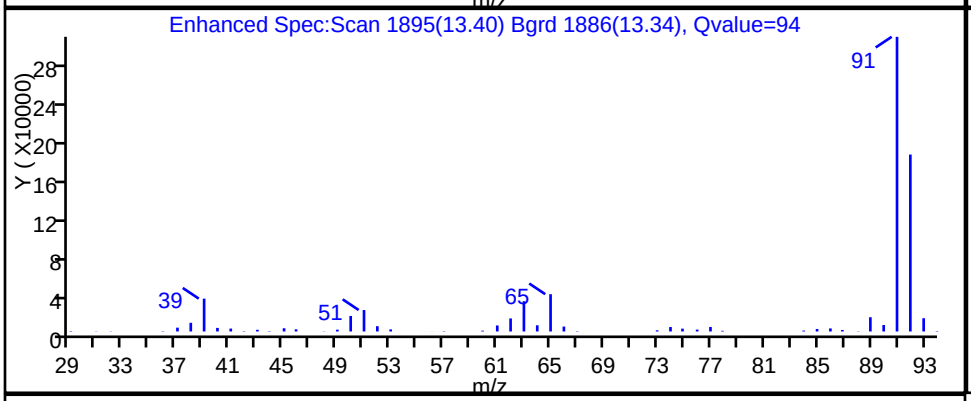
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D

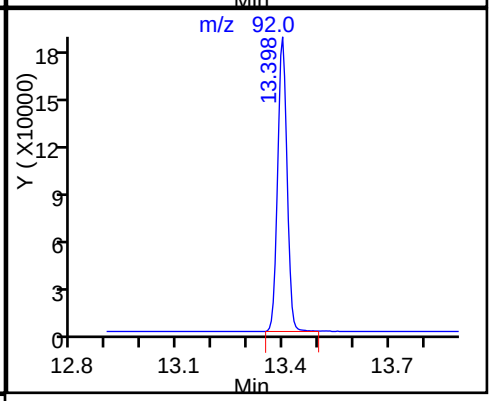
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

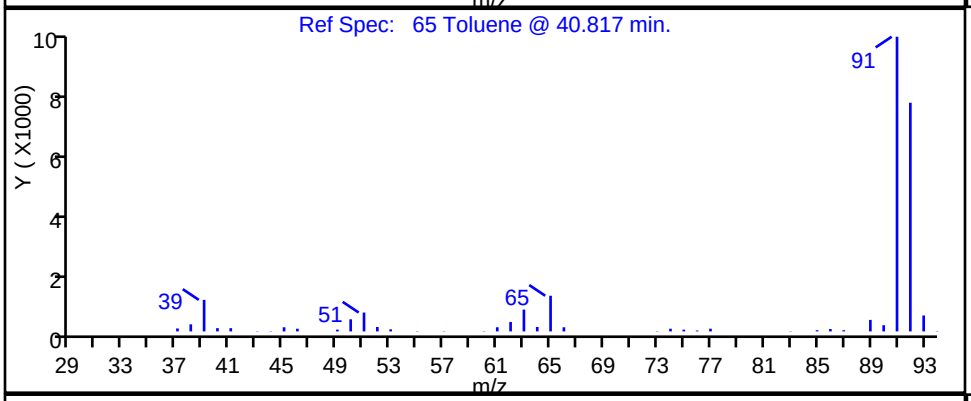
65 Toluene, CAS: 108-88-3

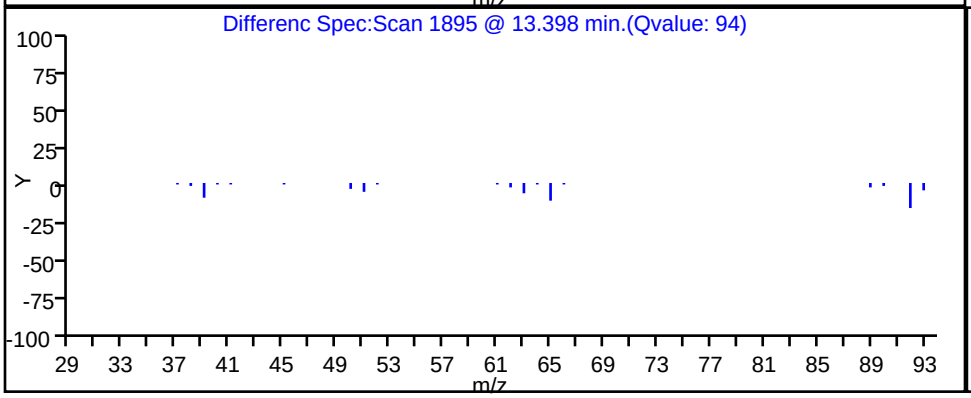


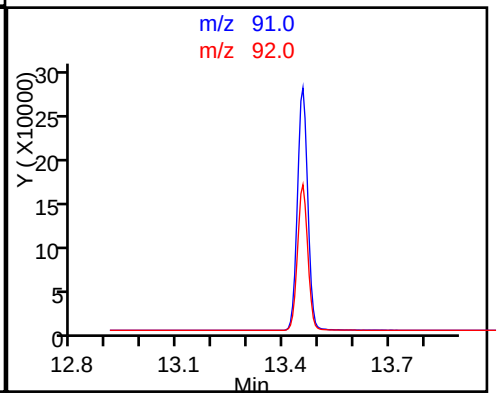










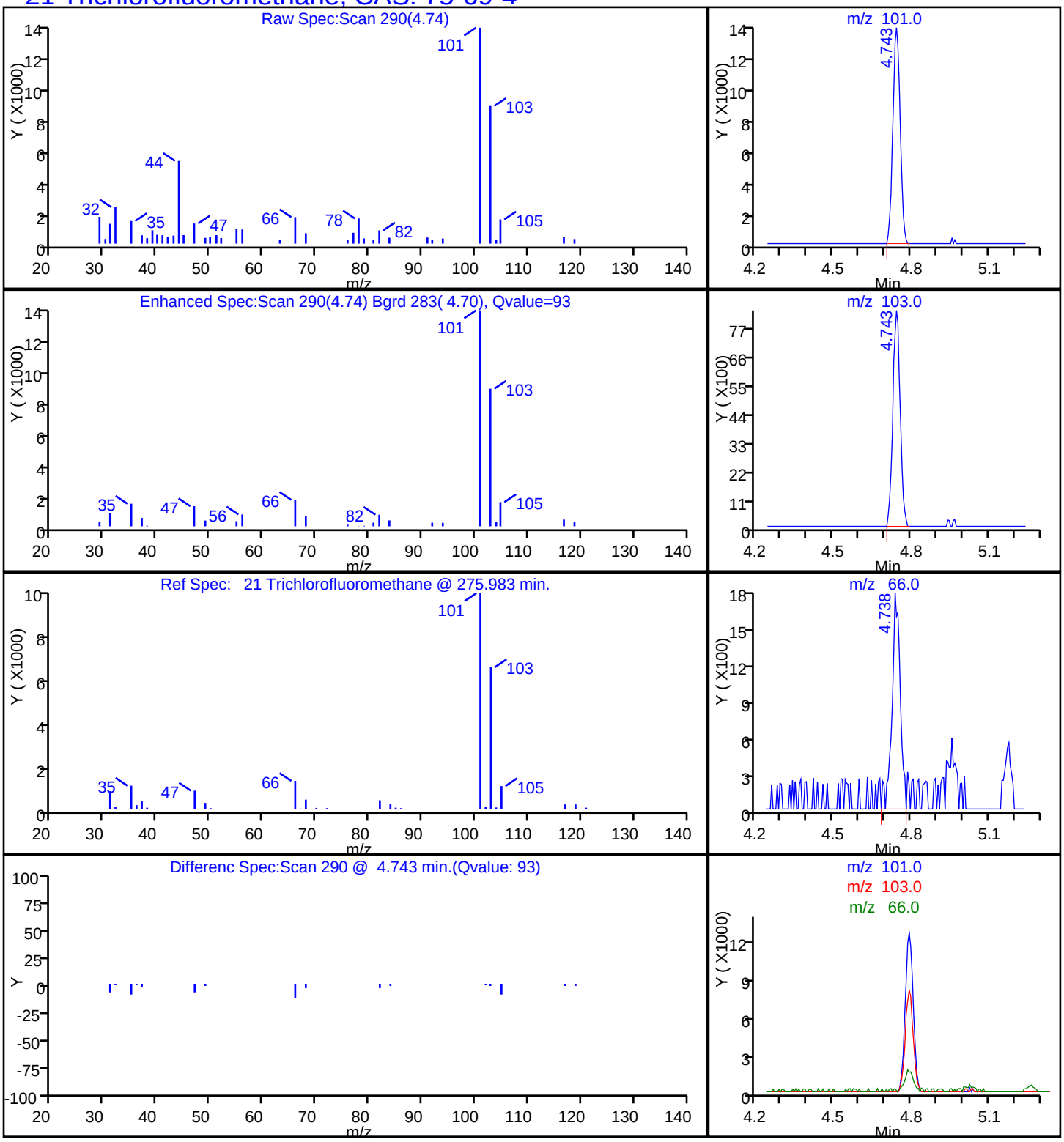


Report Date: 25-Mar-2014 14:36:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110.D				
Injection Date:	18-Mar-2014 00:45:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 DL Lab Sample ID: 140-1051-2 DL

Matrix: Air Lab File ID: EC17POS110R.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 08:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	290		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA2-B12 DL Lab Sample ID: 140-1051-2 DL

Matrix: Air Lab File ID: EC17POS110R.D

Analysis Method: TO-15 Date Collected: 03/12/2014 13:50

Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 08:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	550		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110R.D
Lims ID: 140-1051-A-2 Lab Sample ID: 140-1051-2
Client ID: PCV-IA2-B12
Sample Type: Client
Inject. Date: 18-Mar-2014 08:20:30 ALS Bottle#: 10 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-2
Misc. Info.: E031714,TO155,,140-0000525-025
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 12:46:01 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:46:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	168115	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	795742	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	731192	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	679009	4.24	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	95	22645	0.1218	
9 Chloromethane	52	3.535	3.530	0.005	93	1581	0.1065	
17 Ethanol	31	4.317	4.317	0.0	98	984946	58.6	
19 2-Methylbutane	43	4.533	4.538	-0.005	88	54835	0.9314	
21 Trichlorofluoromethane	101	4.738	4.743	-0.005	92	13129	0.0704	
23 Acetone	58	4.872	4.878	-0.006	93	61931	2.43	
24 Isopropyl alcohol	45	4.975	4.970	0.005	74	128678	1.96	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	49	1856	0.0161	
31 Methylene Chloride	84	5.784	5.789	-0.005	76	8425	0.1754	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	92	7304	0.2654	
40 Hexane	56	7.585	7.585	0.0	52	3396	0.0759	
43 Chloroform	83	8.345	8.356	-0.011	6	2393	0.0166	
49 Cyclohexane	69	9.979	9.984	-0.005	51	786	0.0262	
48 Benzene	78	9.990	9.995	-0.005	91	13340	0.0833	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	82	2599	0.0169	
53 Isooctane	57	10.777	10.783	-0.005	54	6439	0.0260	
54 n-Heptane	71	11.176	11.182	-0.006	68	5165	0.0852	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	91	21708	0.2302	
65 Toluene	91	13.398	13.403	-0.005	93	179033	0.9140	
73 Tetrachloroethene	129	14.552	14.552	0.0	78	2586	0.0310	
76 Ethylbenzene	91	15.722	15.727	-0.005	71	7105	0.0283	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	95	23470	0.1189	
82 o-Xylene	91	16.407	16.412	-0.005	85	9513	0.0446	

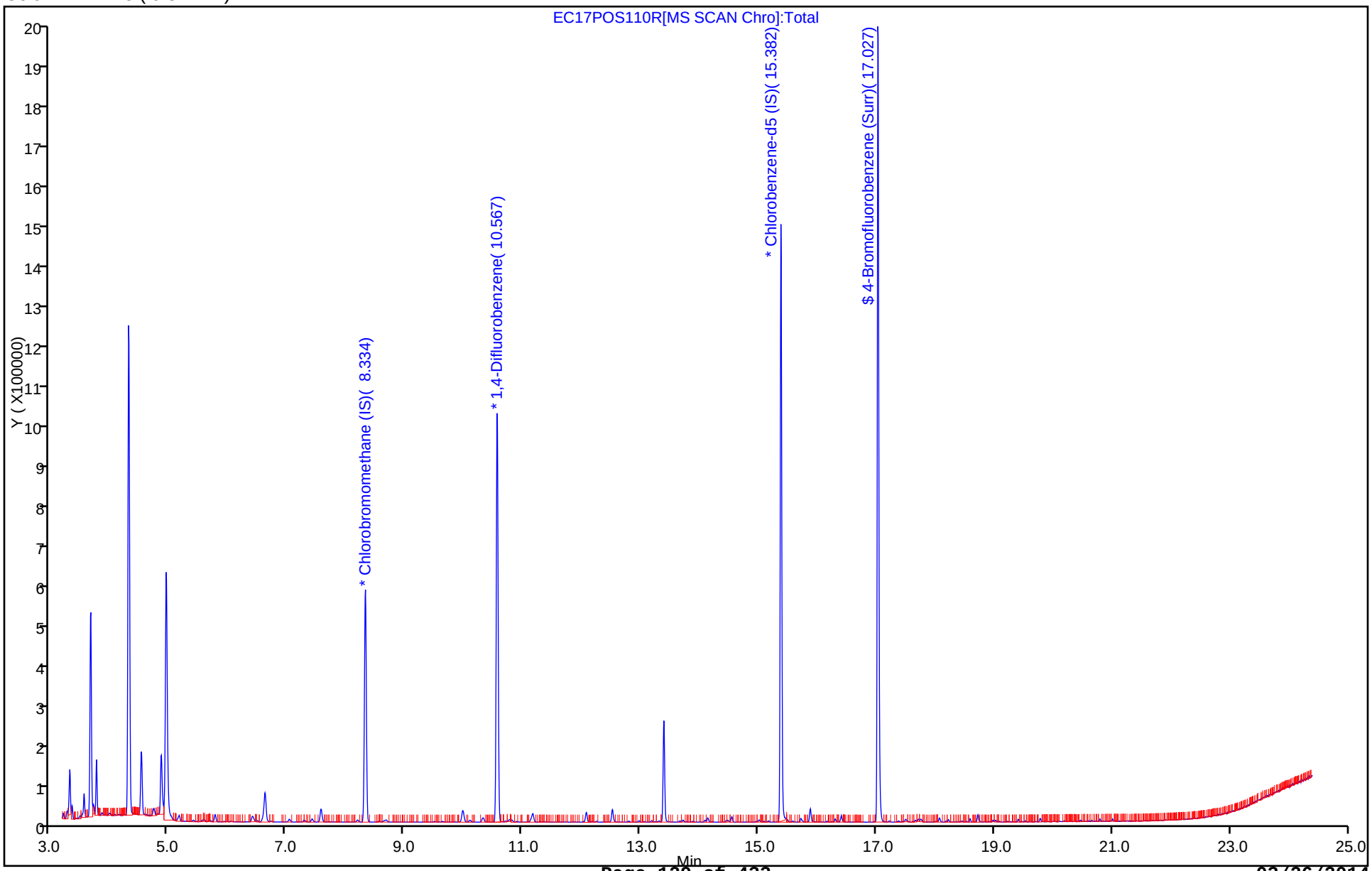
Report Date: 18-Mar-2014 12:46:02 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110R.D

Injection Date:	18-Mar-2014 08:20:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2	Worklist Smp#:	25
Client ID:	PCV-IA2-B12				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



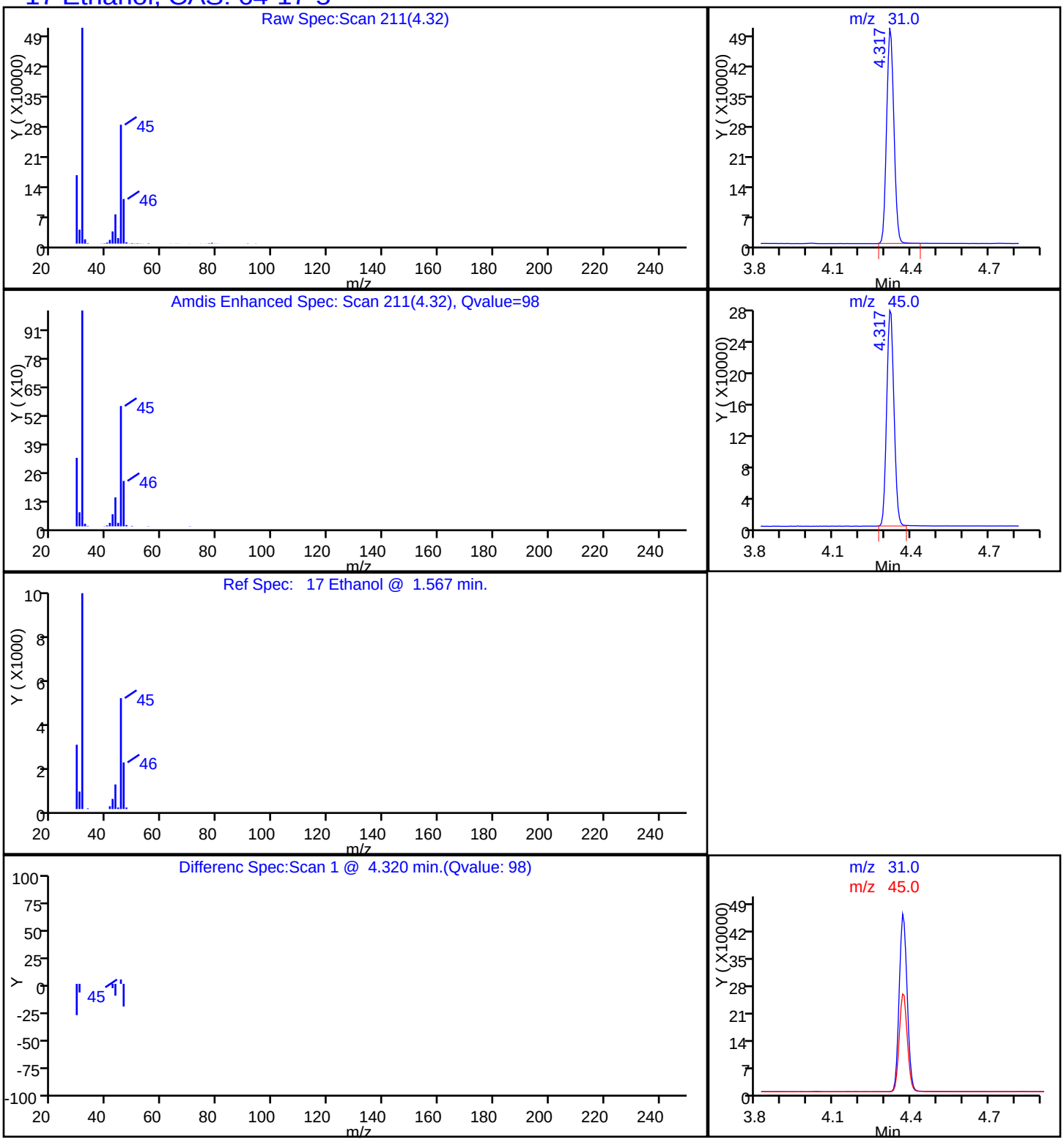
Report Date: 18-Mar-2014 12:46:02 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS110R.D

Injection Date:	18-Mar-2014 08:20:30	Instrument ID:	ME		
Lims ID:	140-1051-A-2	Lab Sample ID:	140-1051-2		
Client ID:	PCV-IA2-B12				
Operator ID:	060487	ALS Bottle#:	10	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.11	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.086	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.11	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	0.23		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.57	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.25		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.25	J	0.50	0.045
67-64-1	Acetone	58.08	5.5		5.0	1.4
71-43-2	Benzene	78.11	0.34		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	0.034	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	0.063	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.13	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	94		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.12	J	0.20	0.068
142-82-5	Heptane	100.21	0.25	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.26	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.61		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.48		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.18	J	0.20	0.061
115-07-1	Propene	42.08	1.7	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.14	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	2.3		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.52	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.52	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.53	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	0.93		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.7	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	6.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.89		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.0	J	2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	0.10	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.44	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	180		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.51	J	0.87	0.30
142-82-5	Heptane	100.21	1.0	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.91	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.1		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.76	J	0.87	0.26
115-07-1	Propene	42.08	3.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.92	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	8.8		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-IA3-B12 Lab Sample ID: 140-1051-3

Matrix: Air Lab File ID: EC17POS111.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:19

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 01:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D
Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3
Client ID: PCV-IA3-B12
Sample Type: Client
Inject. Date: 18-Mar-2014 01:30:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-3
Misc. Info.: E031714,TO155,,140-0000525-016
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:29:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	222178	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1104747	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	956320	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	85	851857	4.07	
7 Propene	41	3.320	3.309	0.011	75	38519	0.6892	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	96	44324	0.1803	
9 Chloromethane	52	3.530	3.530	0.0	98	4528	0.2308	
17 Ethanol	31	4.317	4.317	0.0	98	834218	37.5	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	63916	0.8215	
21 Trichlorofluoromethane	101	4.738	4.743	-0.005	94	26924	0.1092	
23 Acetone	58	4.873	4.878	-0.005	99	73466	2.18	
24 Isopropyl alcohol	45	4.970	4.970	0.0	89	202881	2.34	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	65	4171	0.0273	
31 Methylene Chloride	84	5.789	5.789	0.0	77	15432	0.2431	
33 Carbon disulfide	76	5.935	5.940	-0.005	81	3100	0.0135	
35 2-Methylpentane	43	6.598	6.603	-0.005	70	14836	0.1014	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	92	8267	0.2273	
40 Hexane	56	7.580	7.585	-0.005	61	6127	0.1037	
43 Chloroform	83	8.340	8.356	-0.016	16	4832	0.0254	
49 Cyclohexane	69	9.979	9.984	-0.005	50	2130	0.0511	
48 Benzene	78	9.990	9.995	-0.005	93	30350	0.1365	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	83	5671	0.0266	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	77	4699	0.0908	
53 Isooctane	57	10.777	10.783	-0.005	90	15569	0.0454	
54 n-Heptane	71	11.176	11.182	-0.006	69	8314	0.0988	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	88	13157	0.1005	
65 Toluene	91	13.398	13.403	-0.005	93	238052	0.9292	
73 Tetrachloroethene	129	14.552	14.552	0.0	83	5906	0.0541	
76 Ethylbenzene	91	15.722	15.727	-0.005	85	15310	0.0466	
78 m-Xylene & p-Xylene	91	15.878	15.889	-0.011	99	49567	0.1919	
82 o-Xylene	91	16.412	16.412	0.0	91	19575	0.0701	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
88 4-Ethyltoluene	105	17.706	17.701	0.005	40	9208	0.0261	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	73	12438	0.0424	
97 1,4-Dichlorobenzene	146	18.591	18.596	-0.005	80	6477	0.0345	

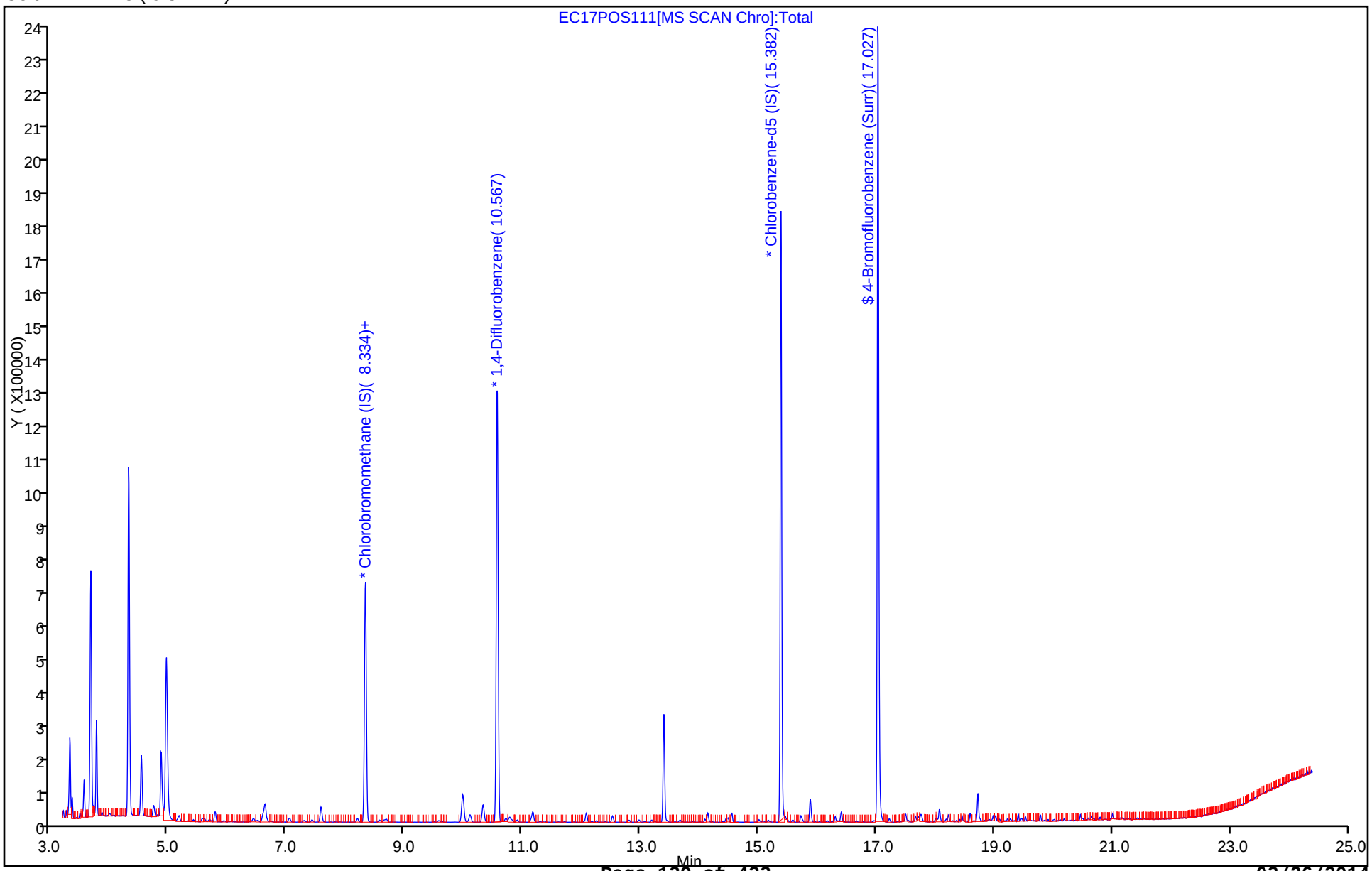
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

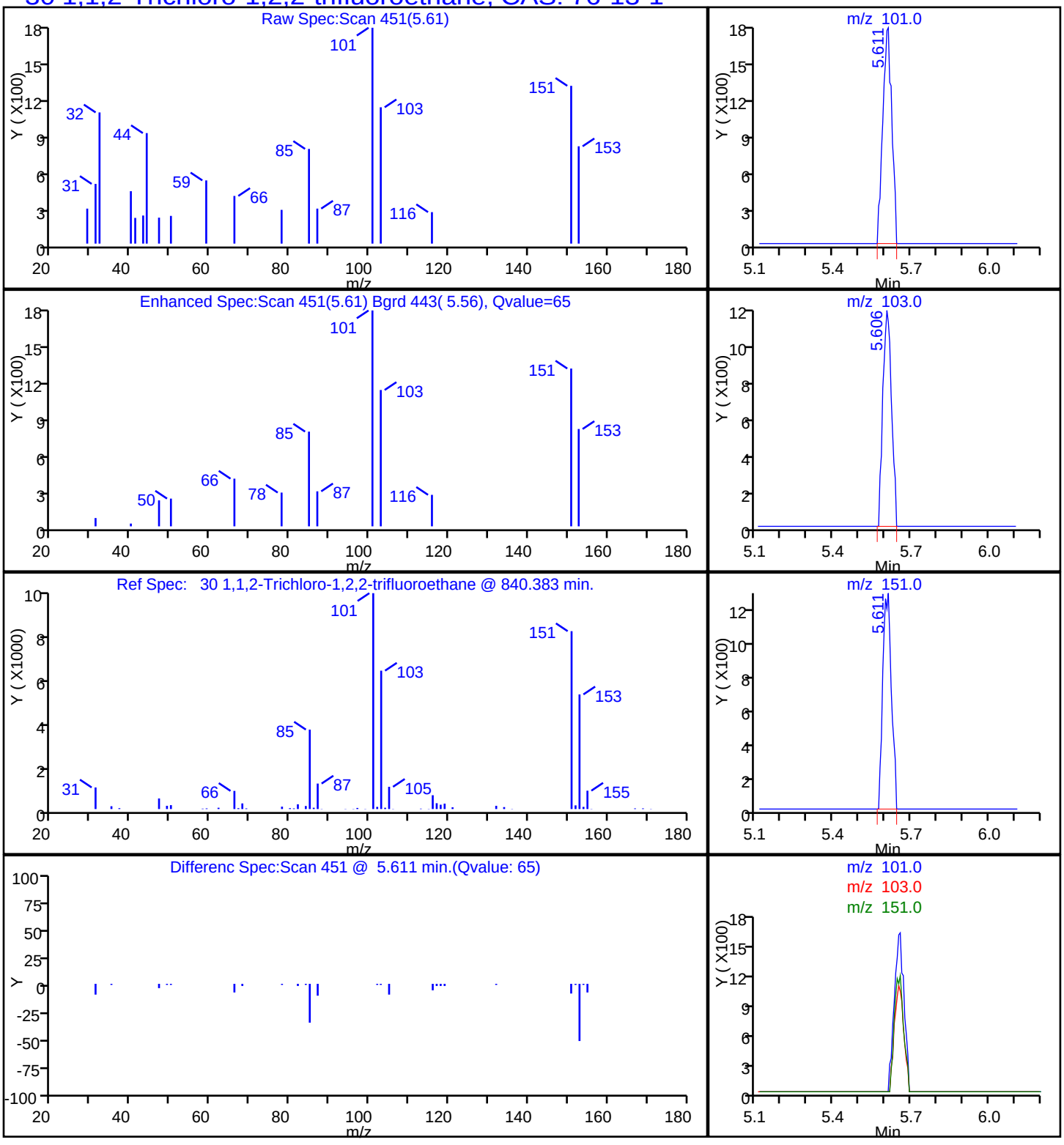
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3	Worklist Smp#:	16
Client ID:	PCV-IA3-B12				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D
Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME
Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3
Client ID: PCV-IA3-B12
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

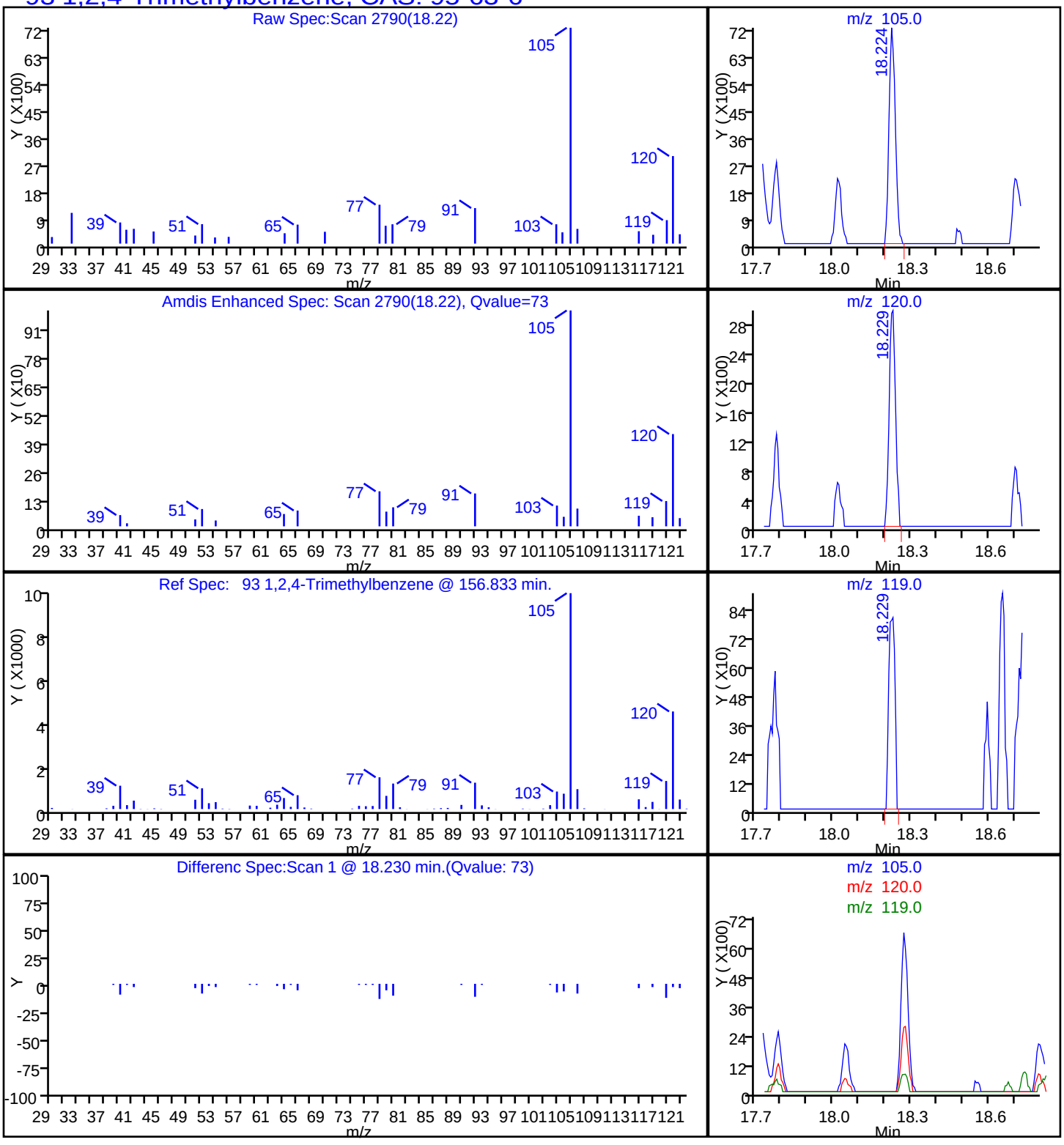


Report Date: 25-Mar-2014 14:36:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 25-Mar-2014 14:36:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME

Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3

Client ID: PCV-IA3-B12

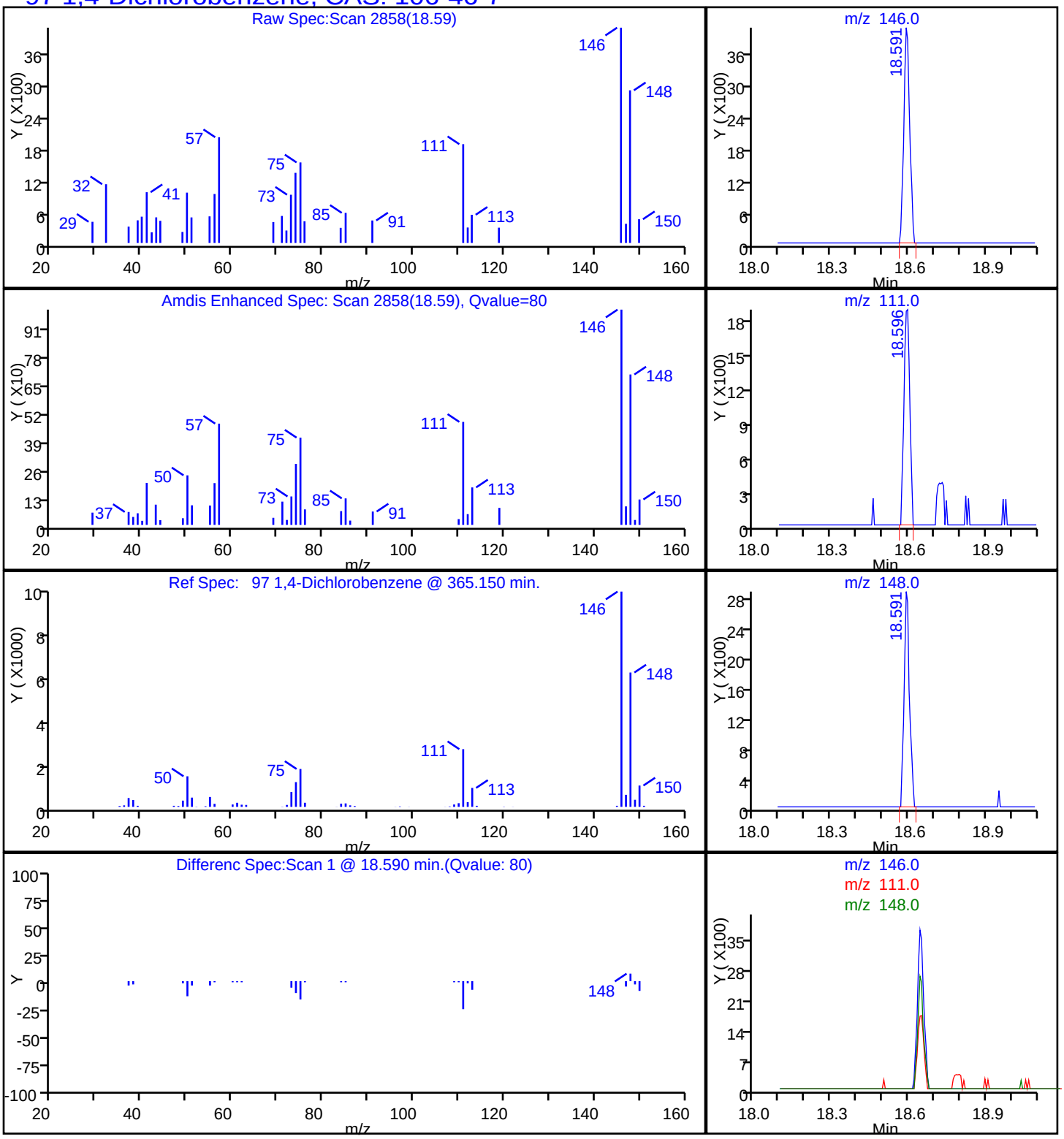
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME

Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3

Client ID: PCV-IA3-B12

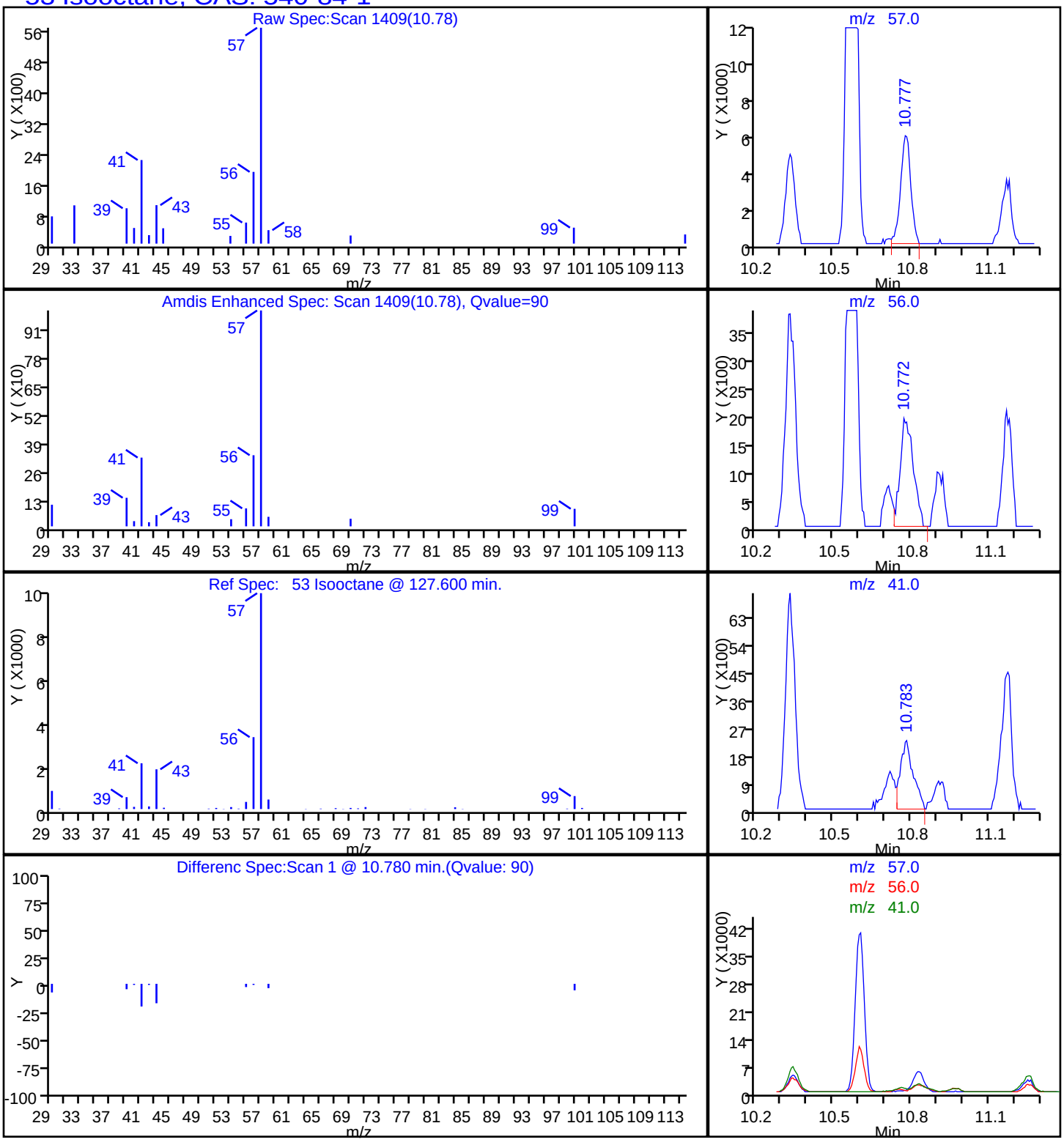
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



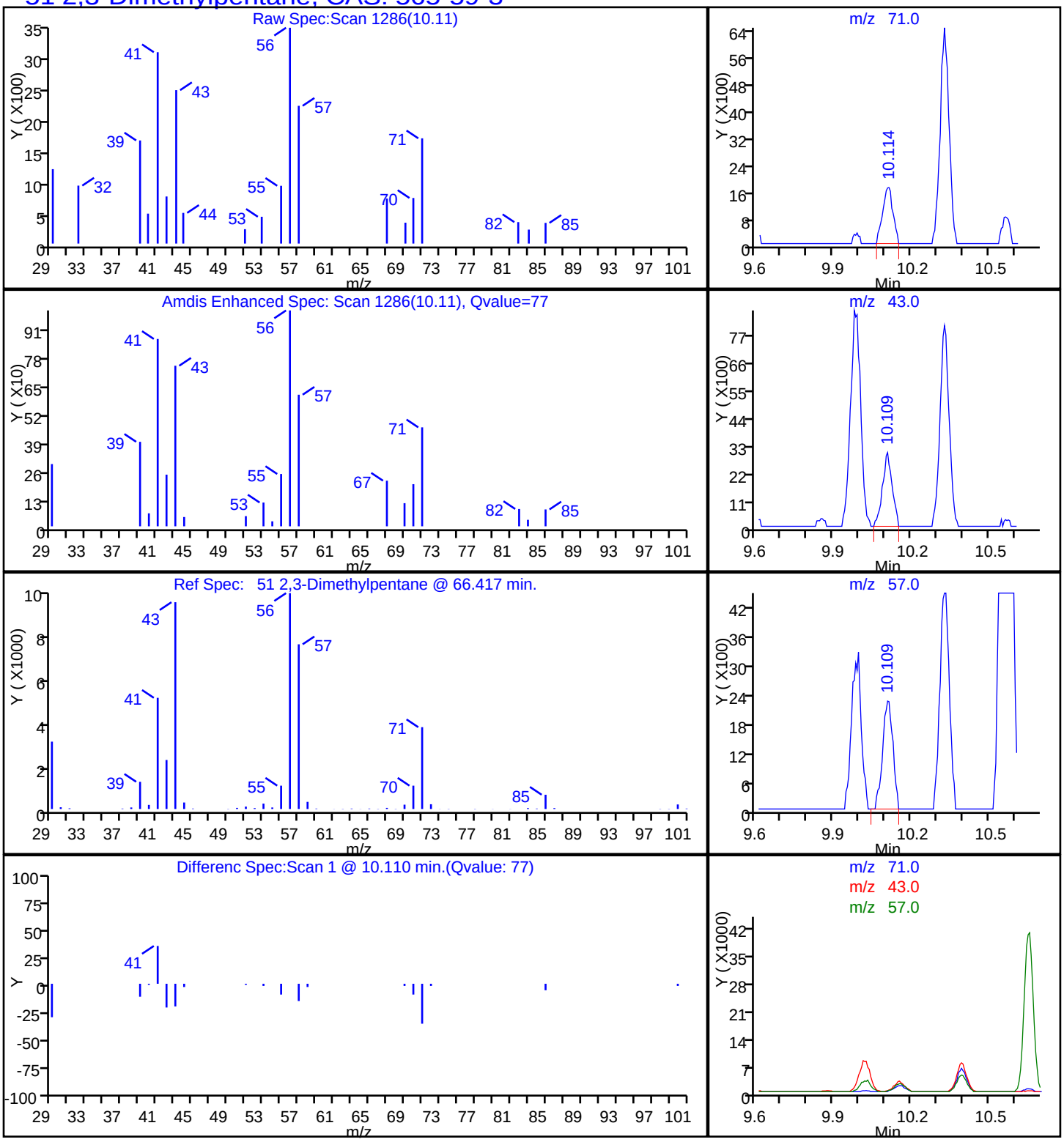
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

51 2,3-Dimethylpentane, CAS: 565-59-3



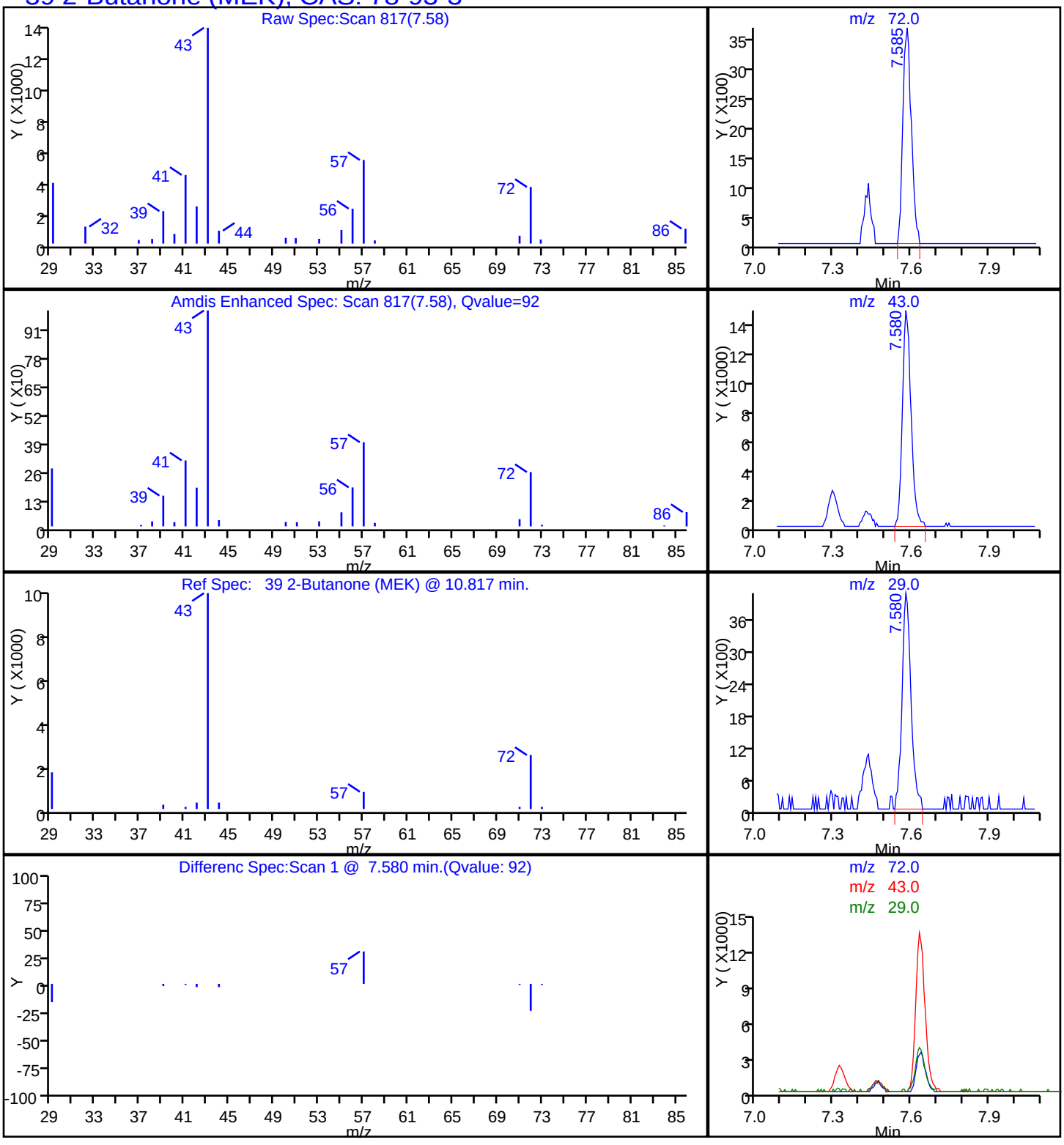
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



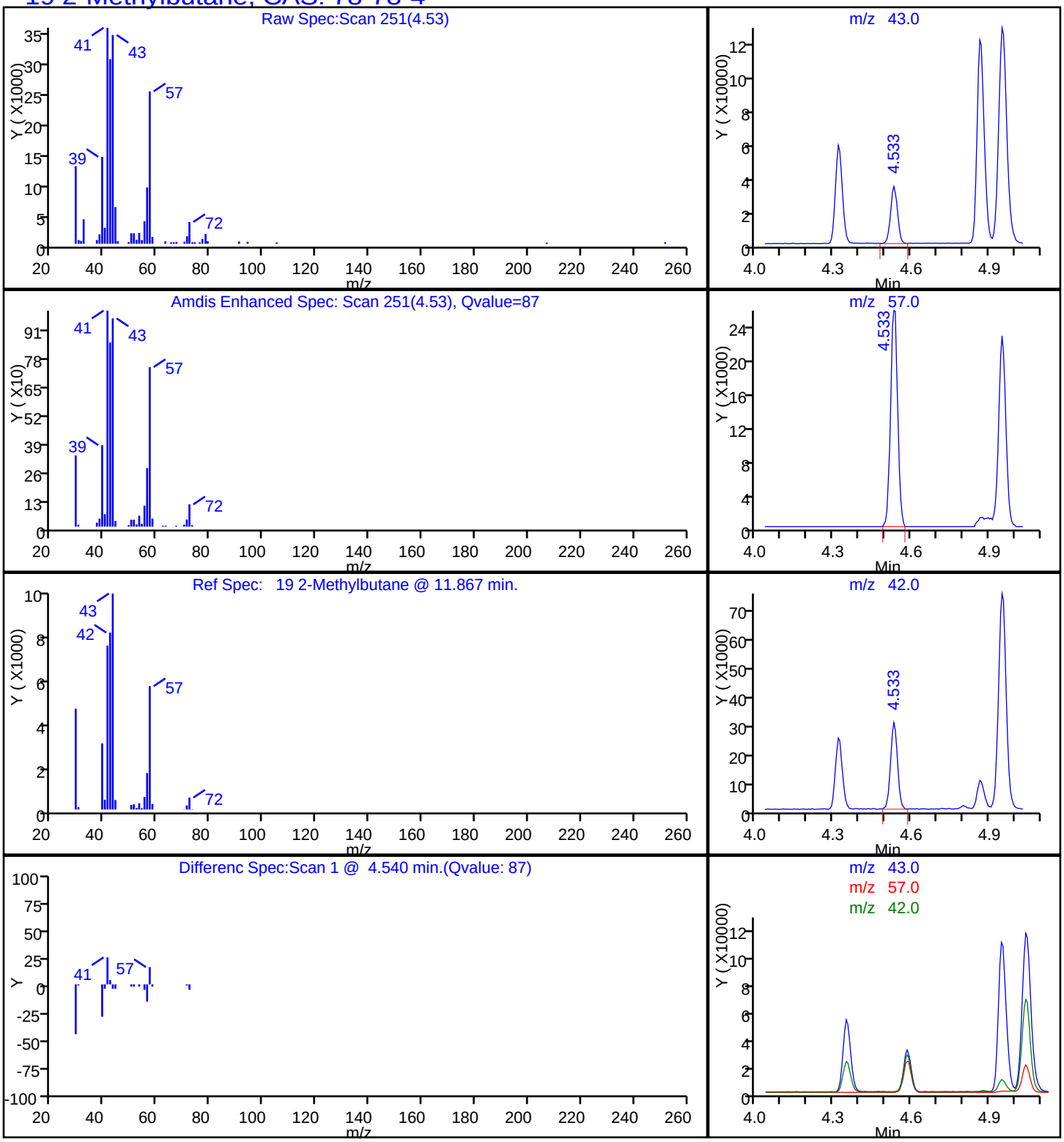
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



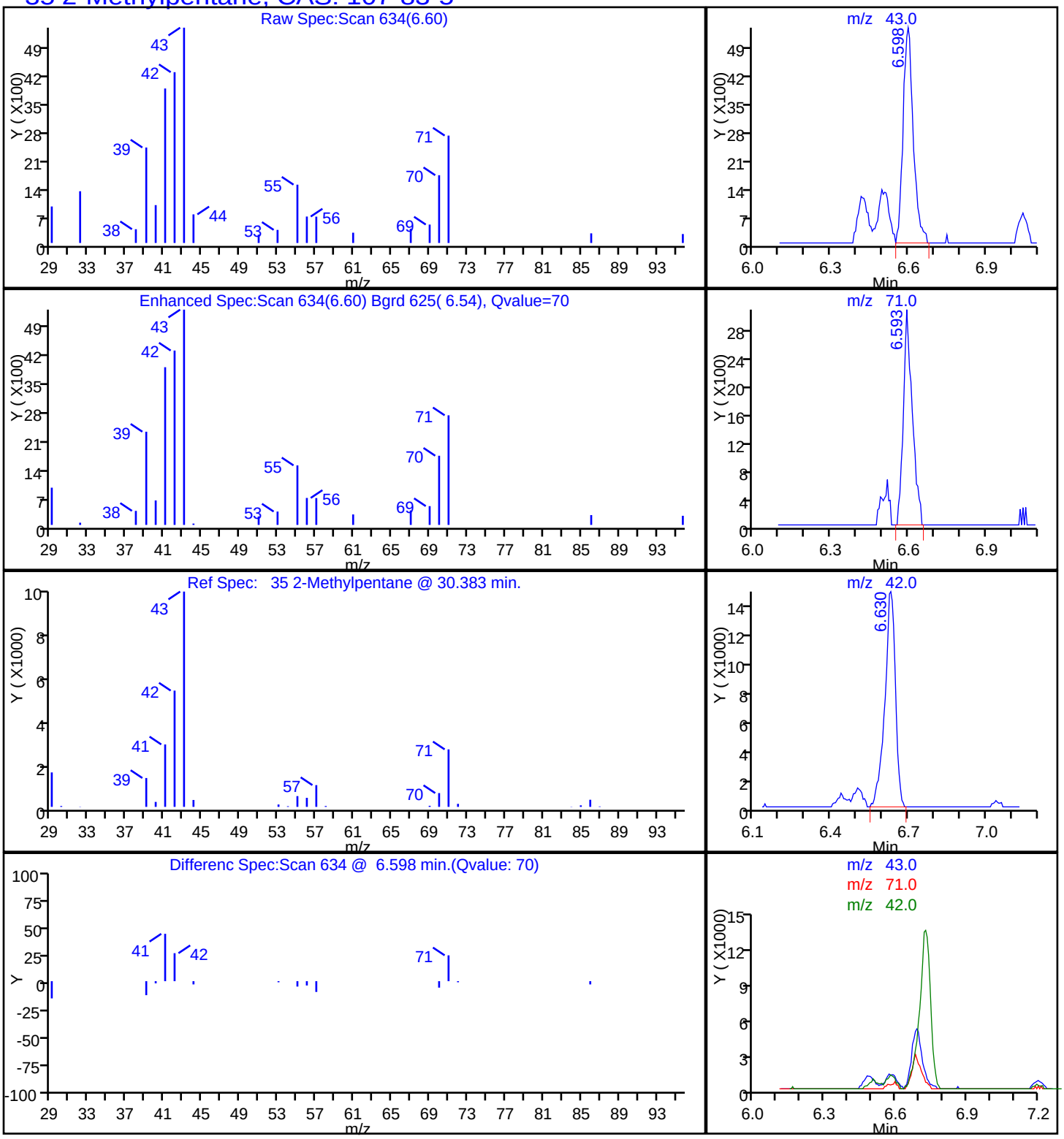
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



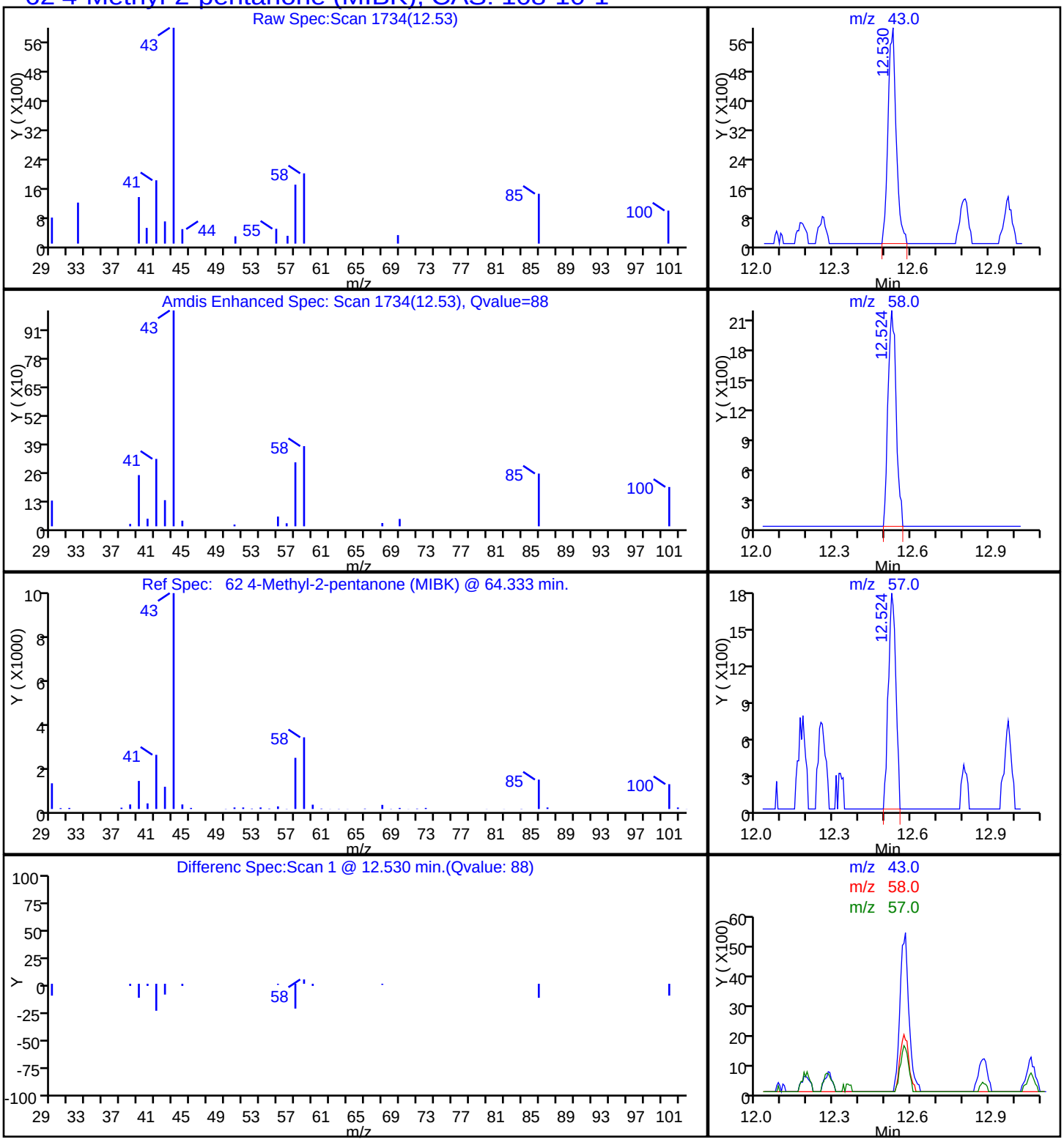
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



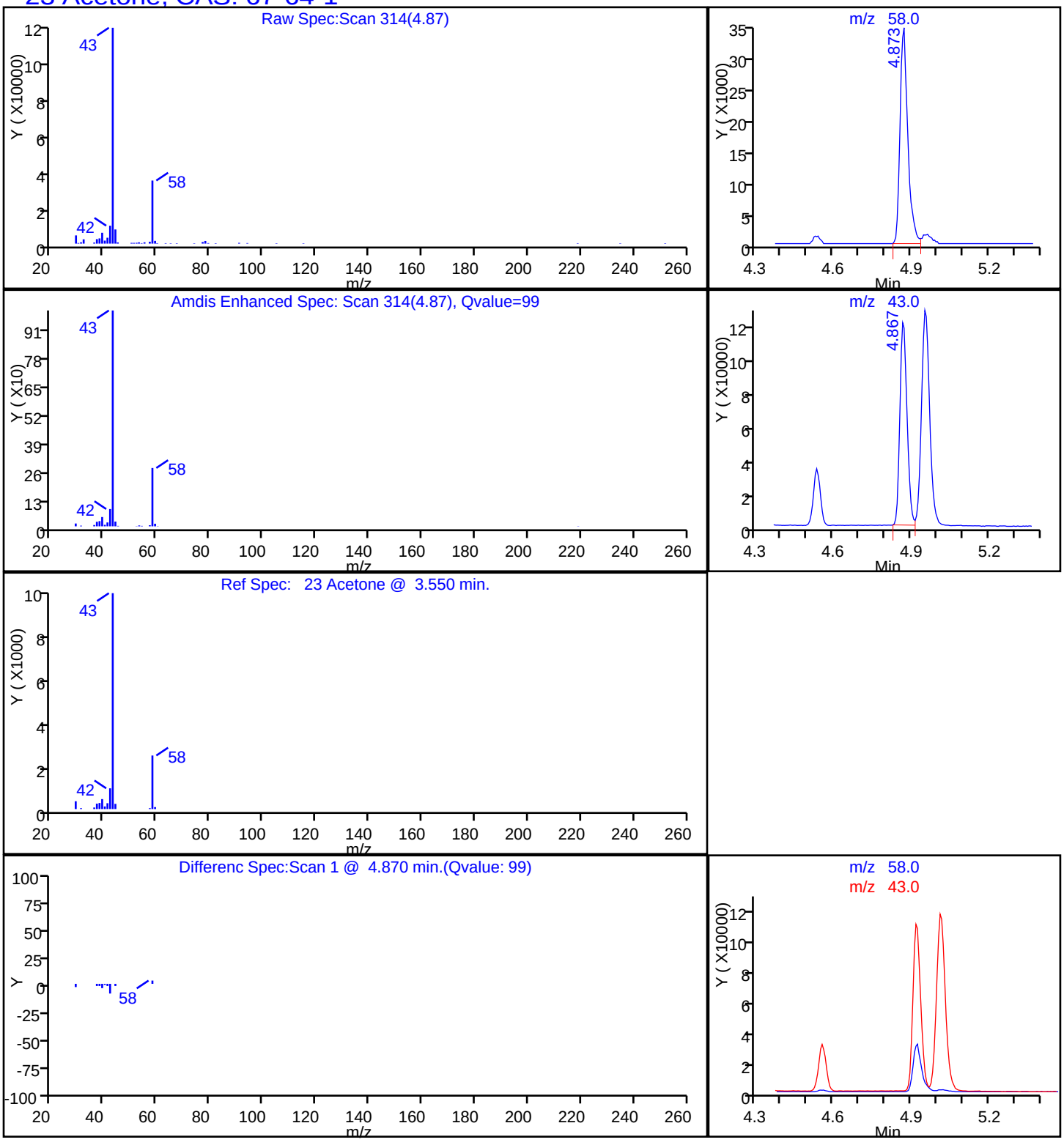
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3
Client ID:	PCV-IA3-B12		
Operator ID:	060487	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



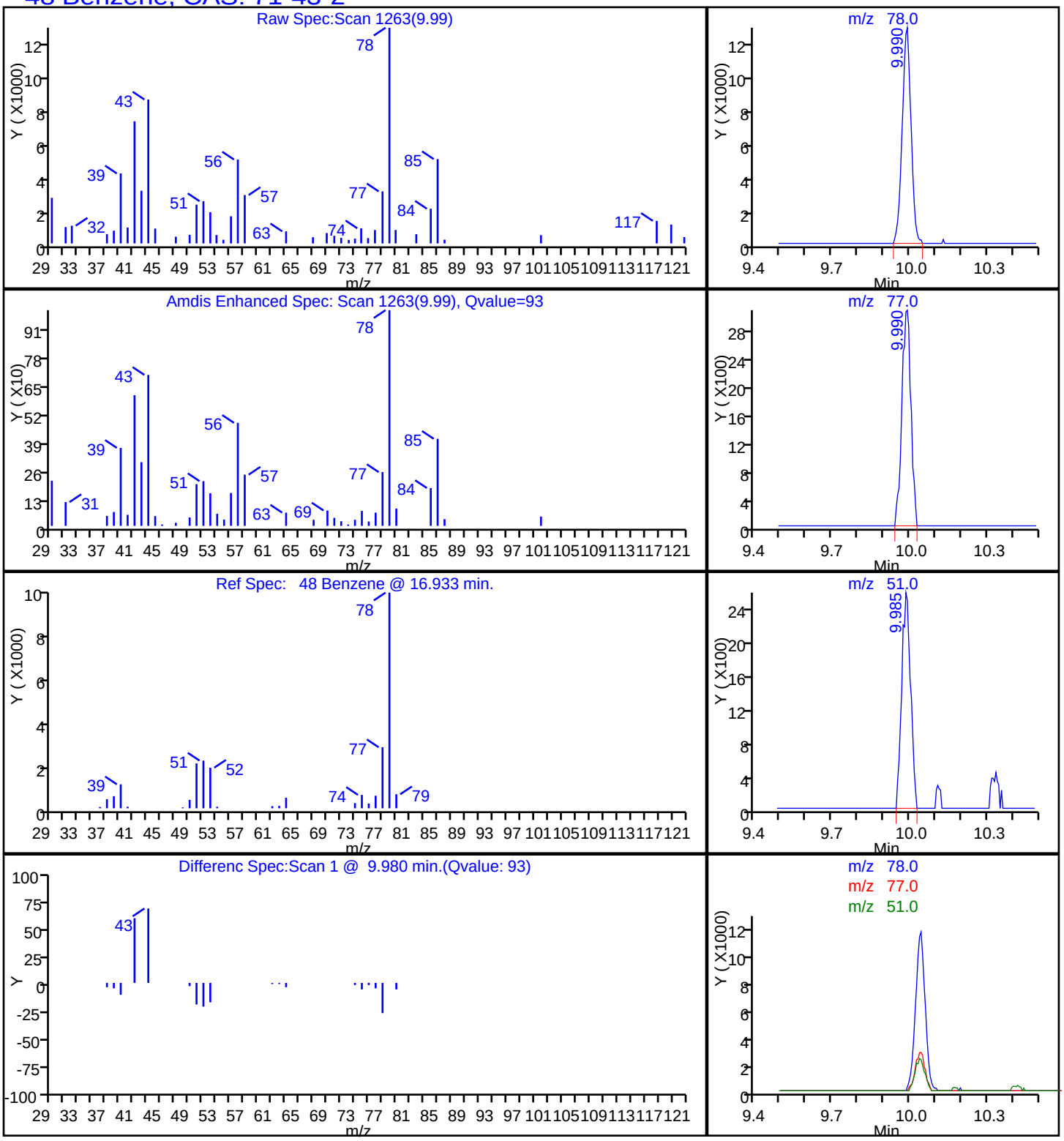
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



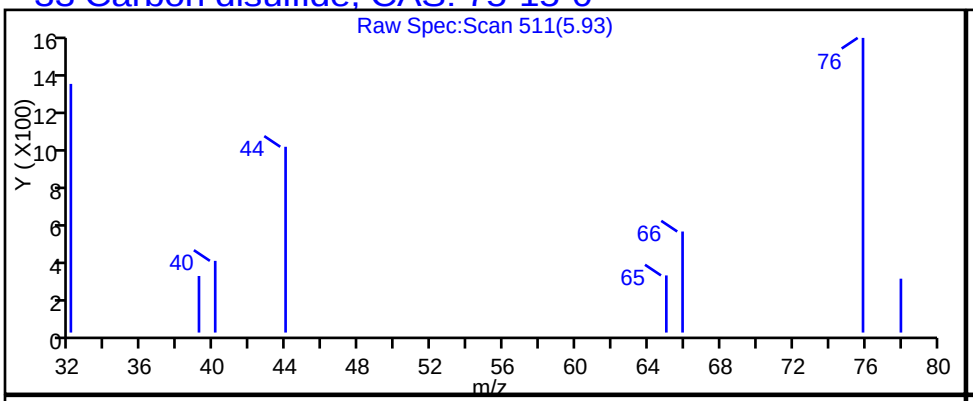
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

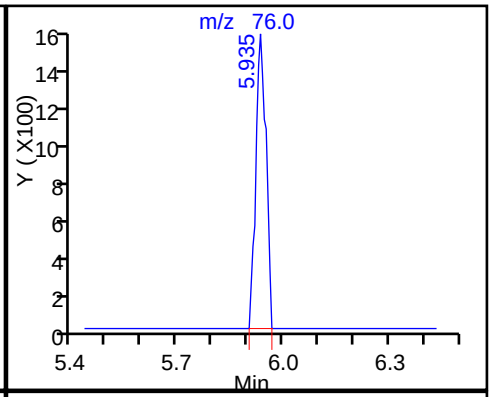
TestAmerica Knoxville

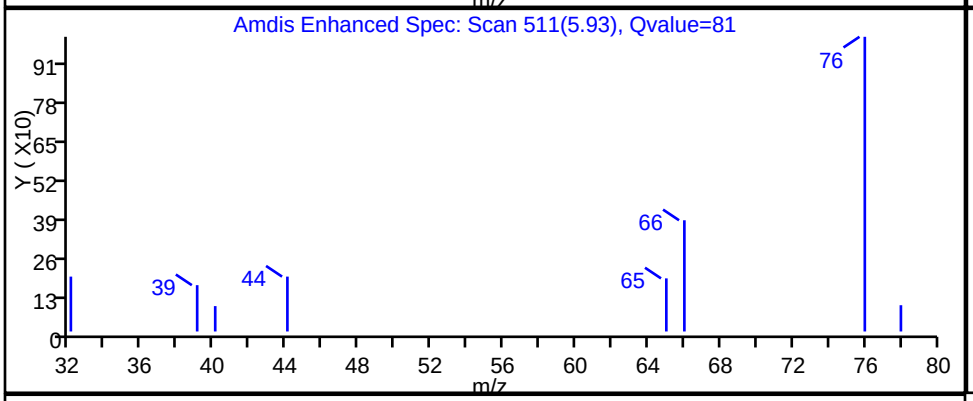
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

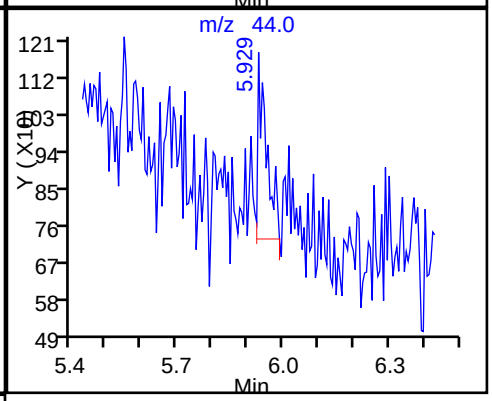
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3
Client ID:	PCV-IA3-B12		
Operator ID:	060487	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

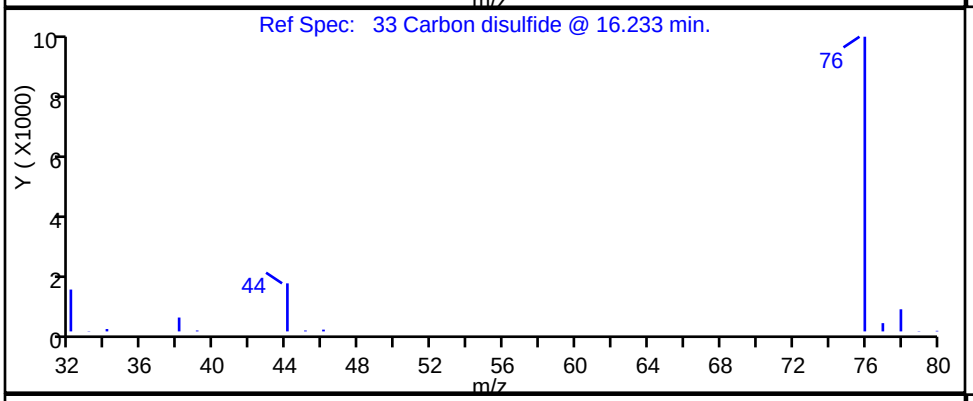
33 Carbon disulfide, CAS: 75-15-0

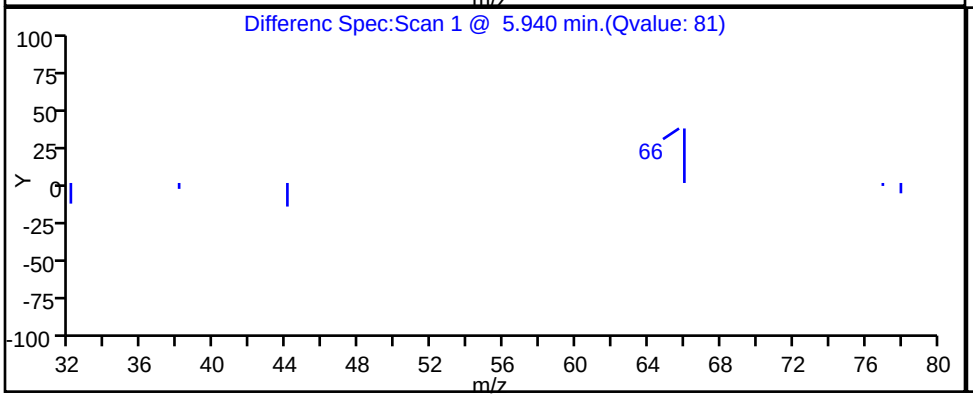


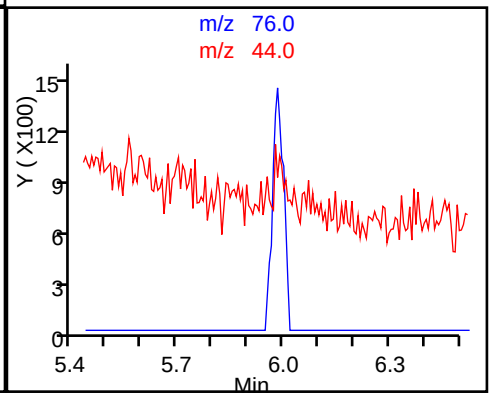












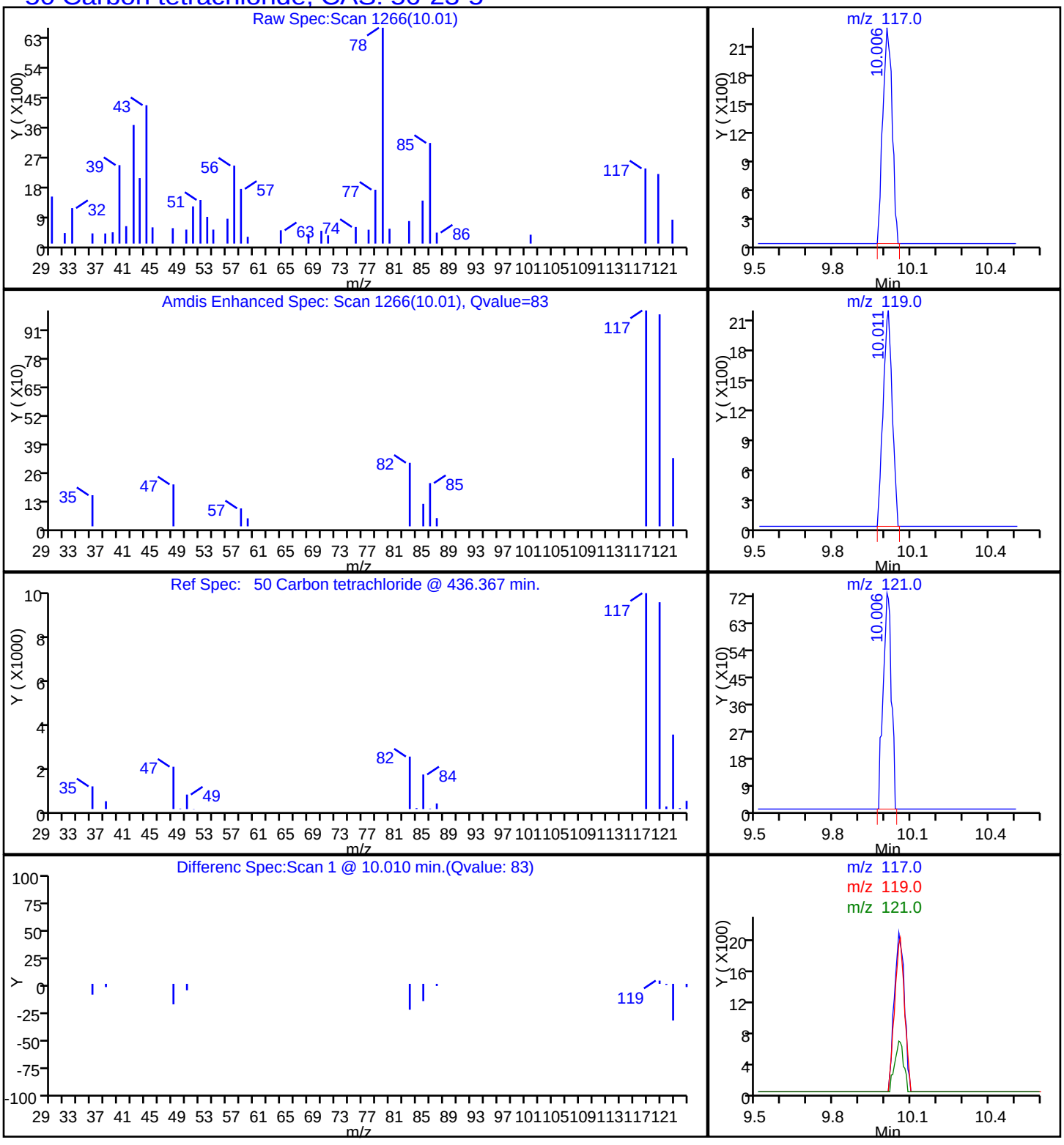
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5

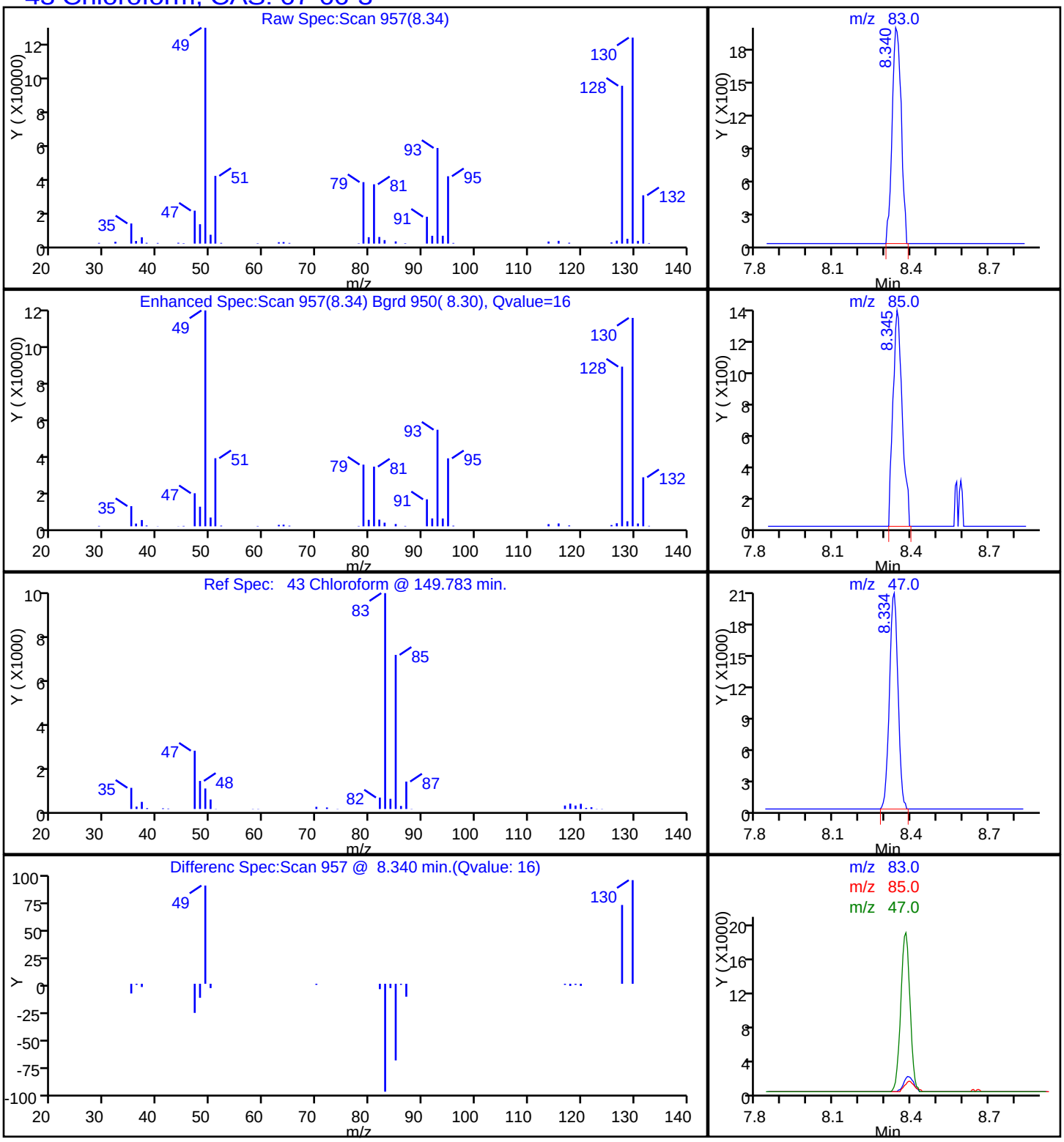


Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME

Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3

Client ID: PCV-IA3-B12

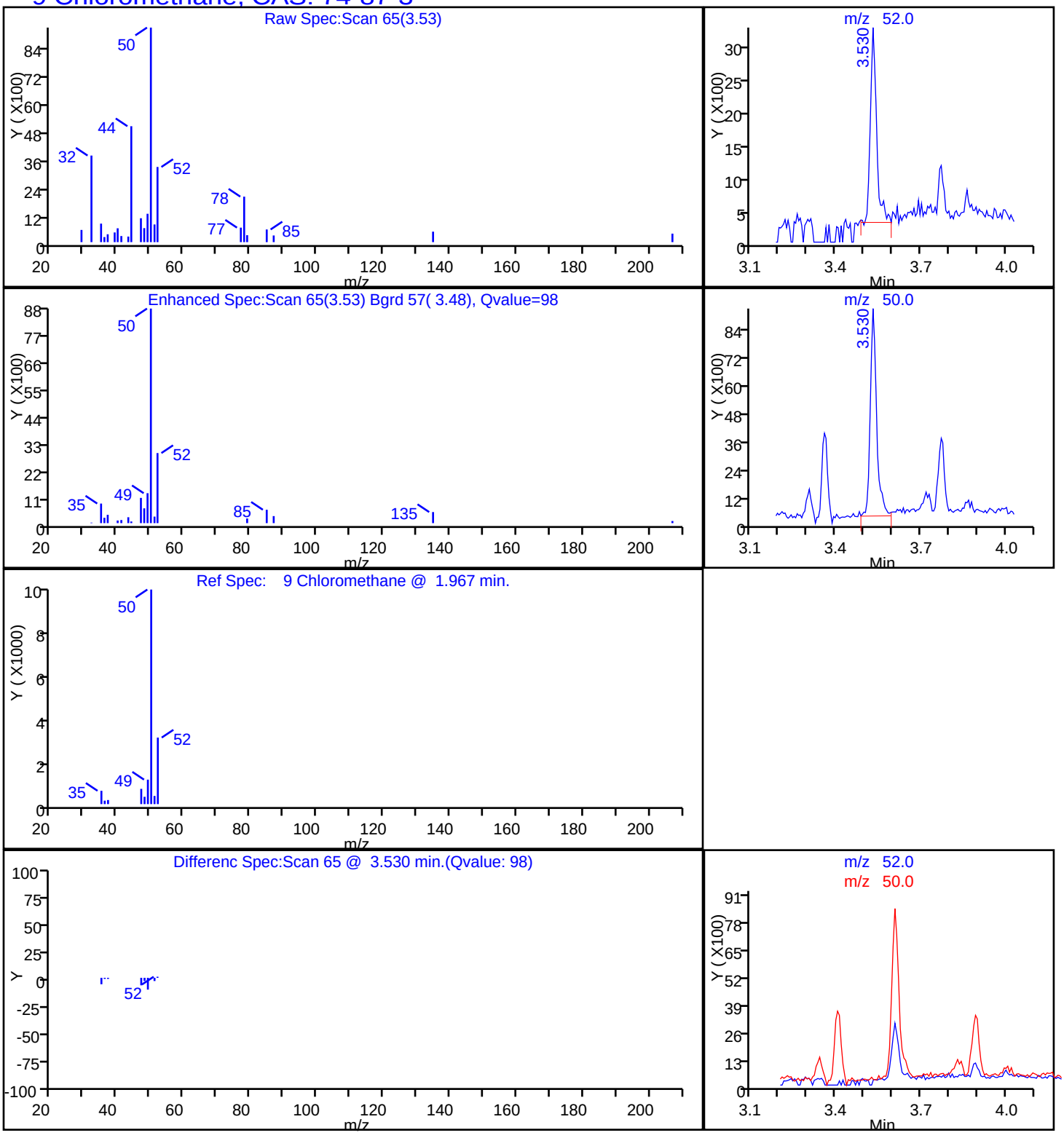
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3

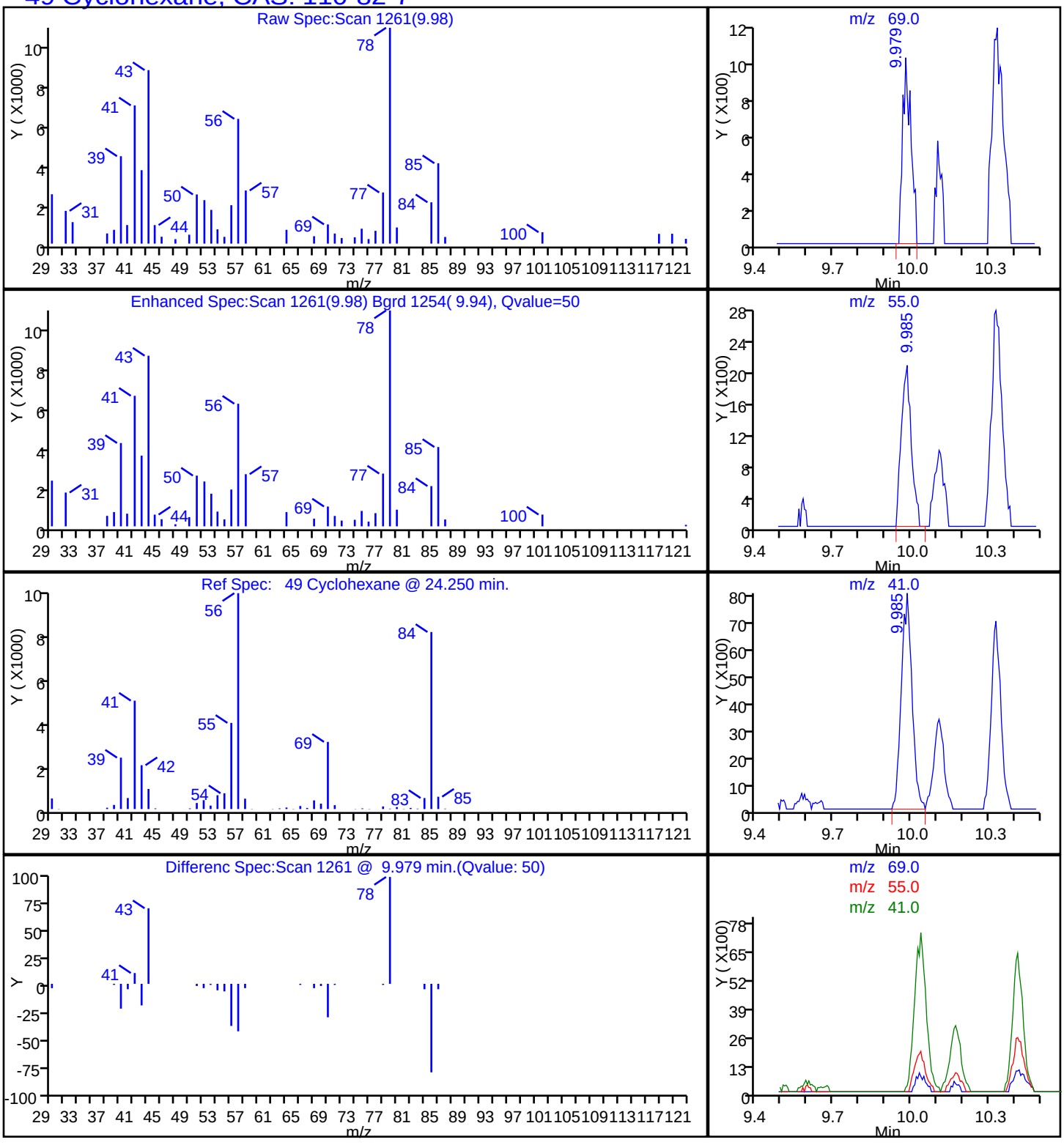


Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7

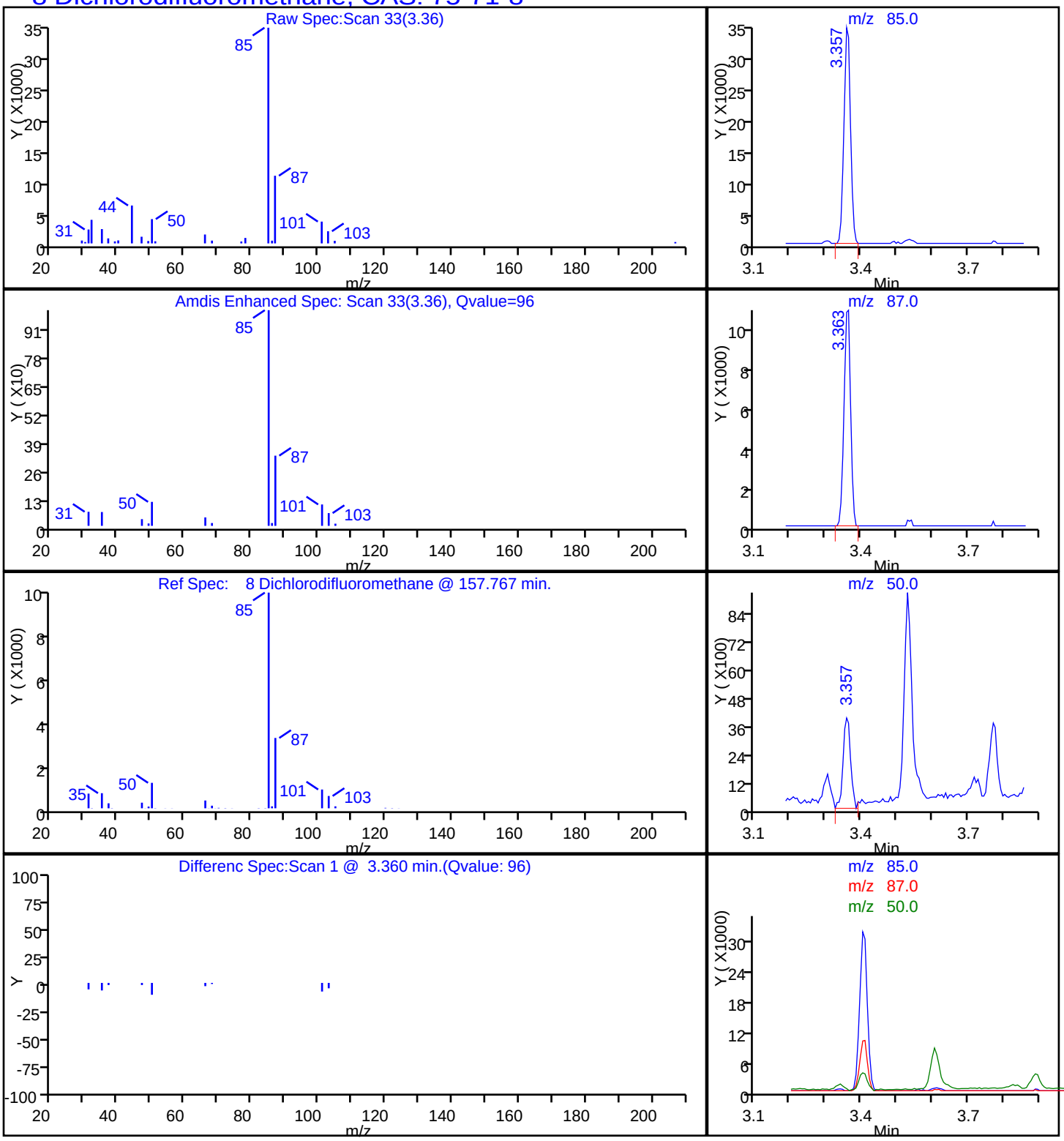


Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



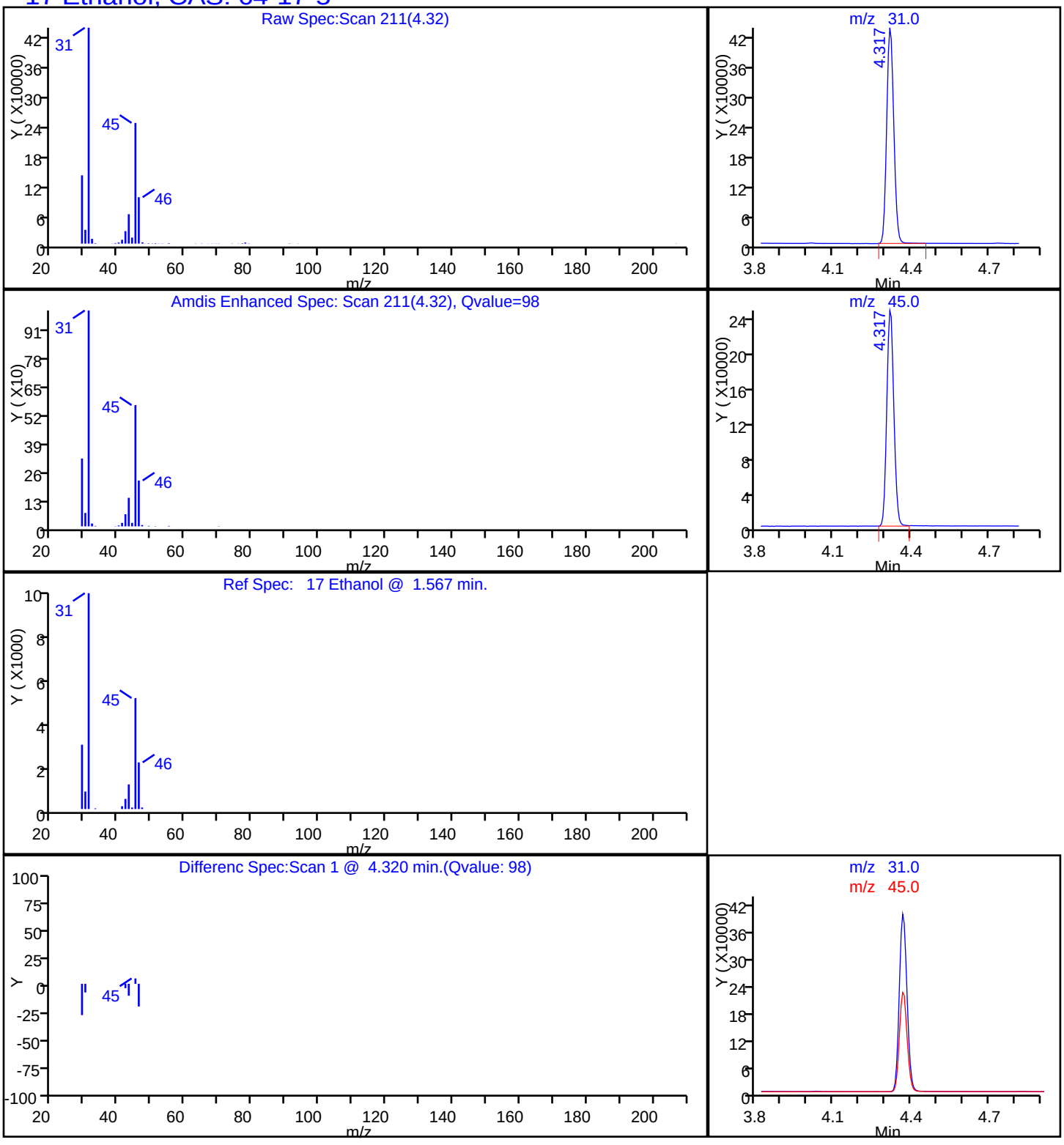
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

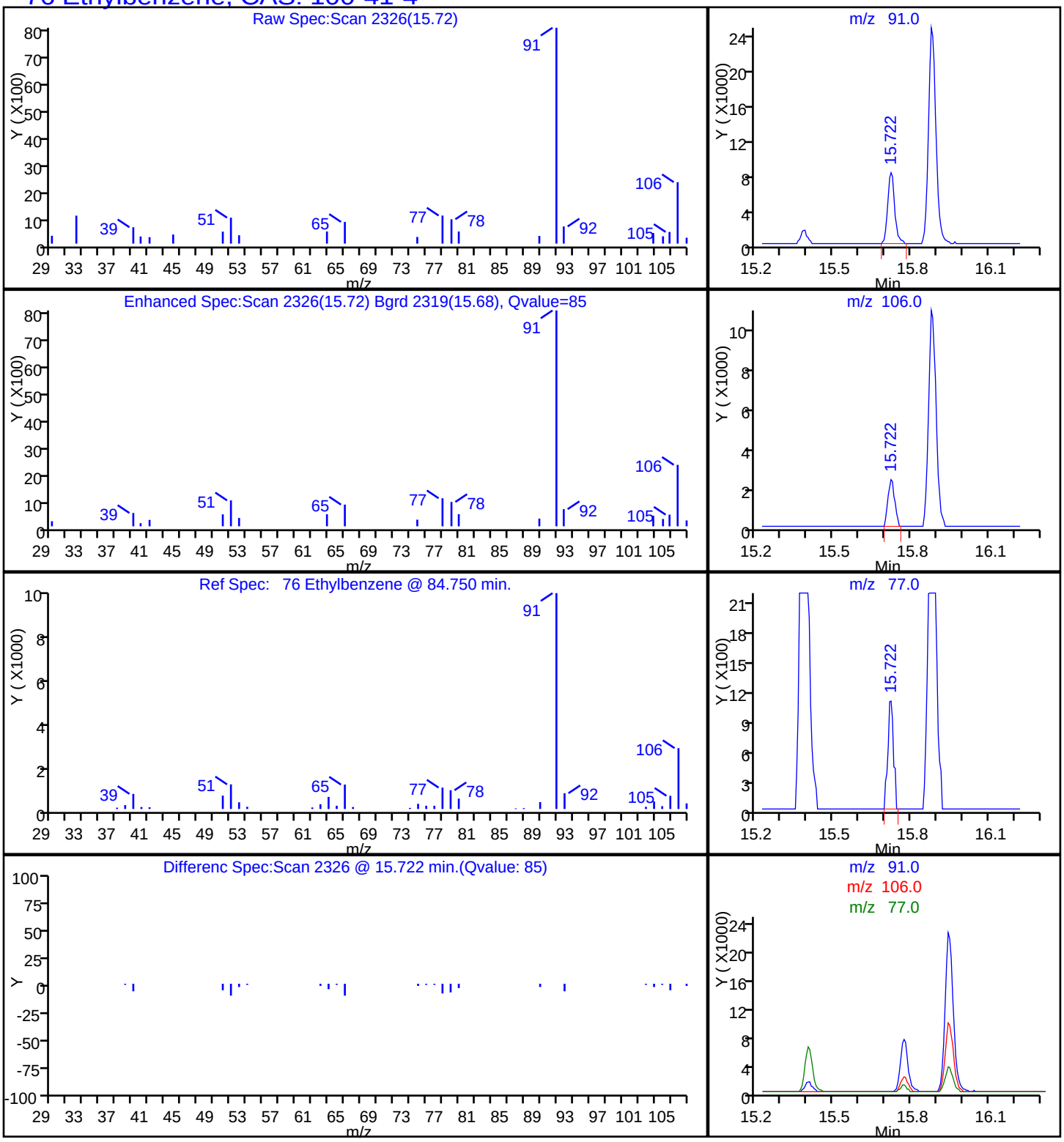


Report Date: 25-Mar-2014 14:36:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME

Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3

Client ID: PCV-IA3-B12

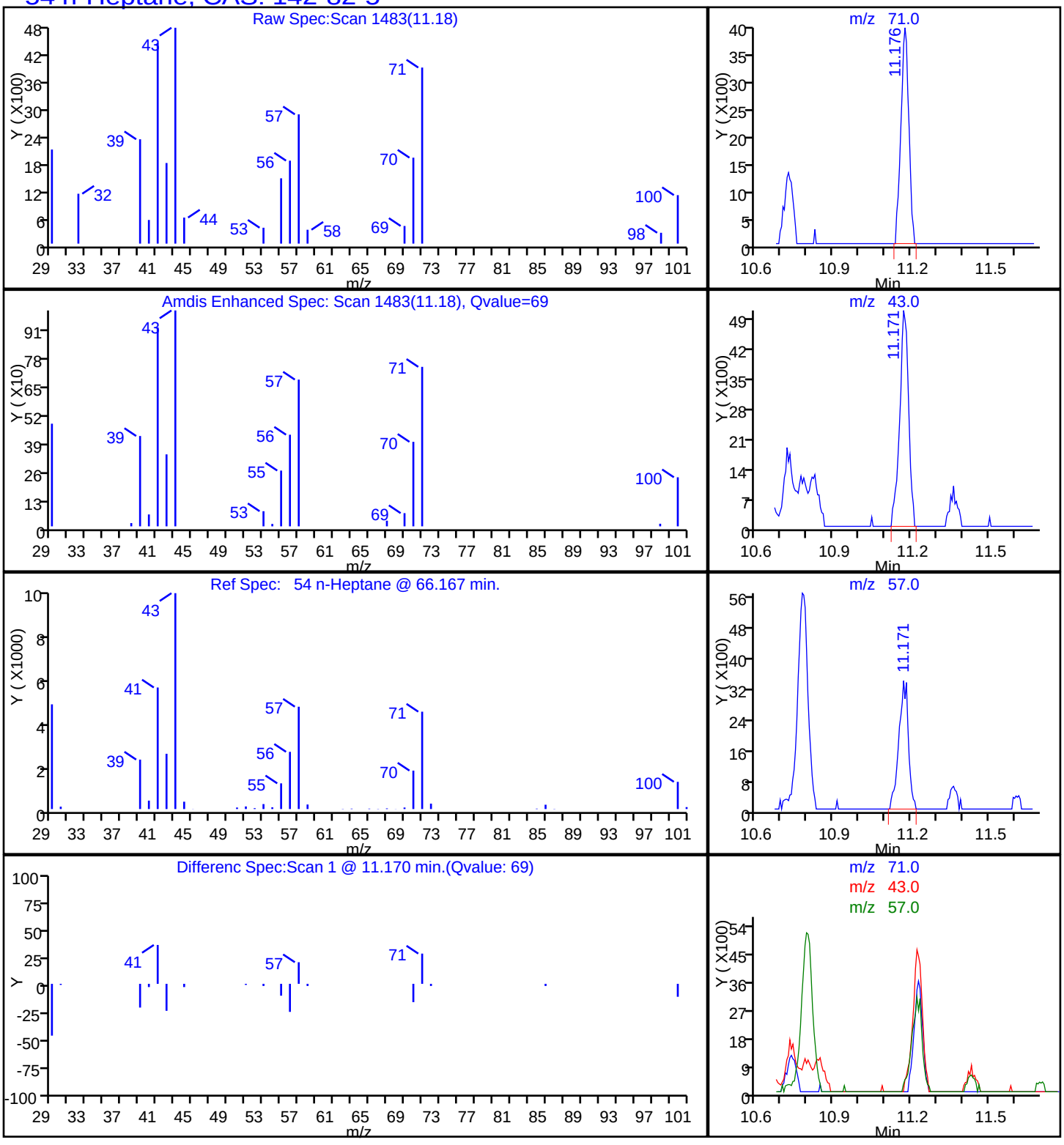
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

54 n-Heptane, CAS: 142-82-5

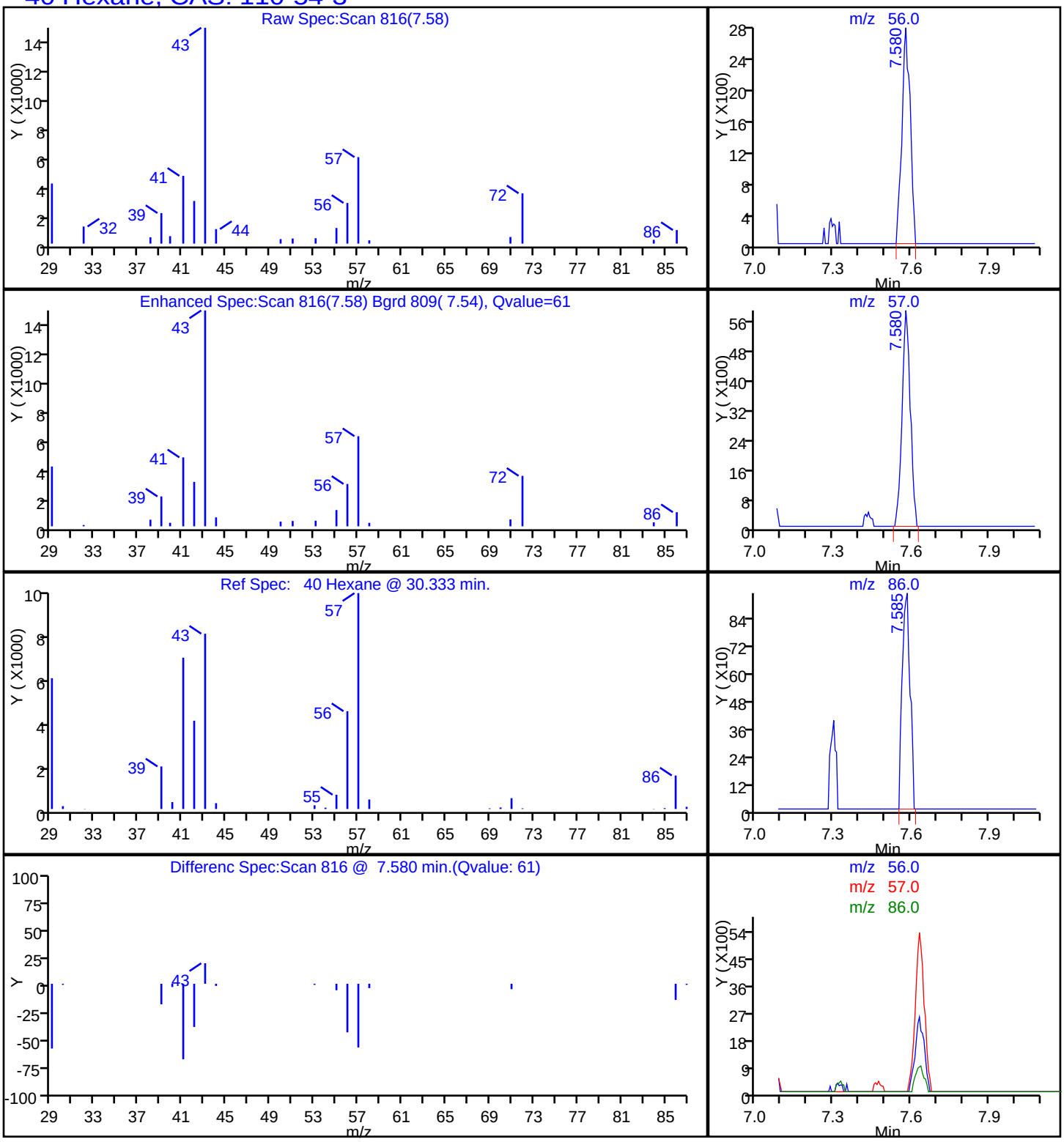


Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



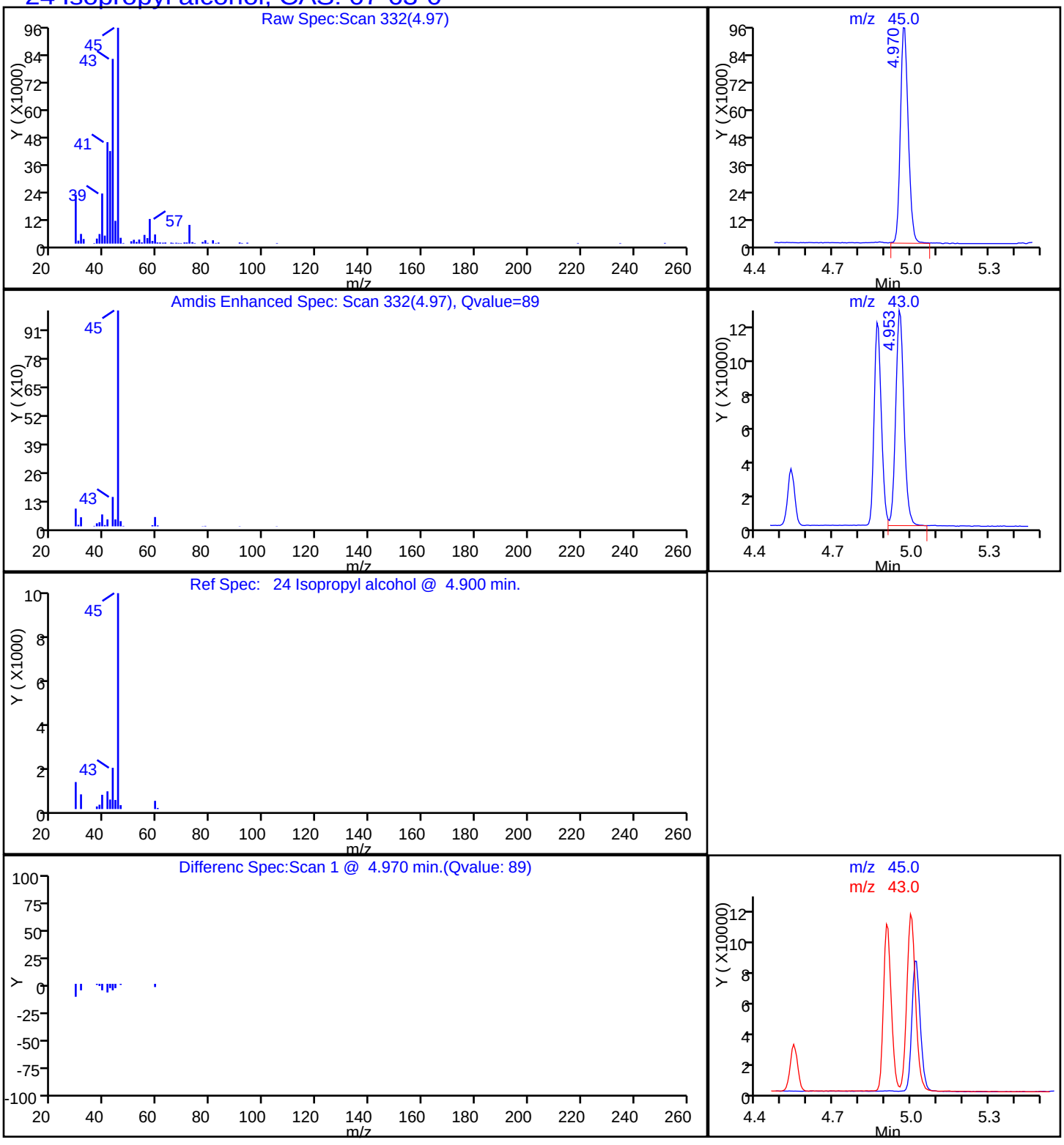
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3
Client ID:	PCV-IA3-B12		
Operator ID:	060487	ALS Bottle#:	11 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



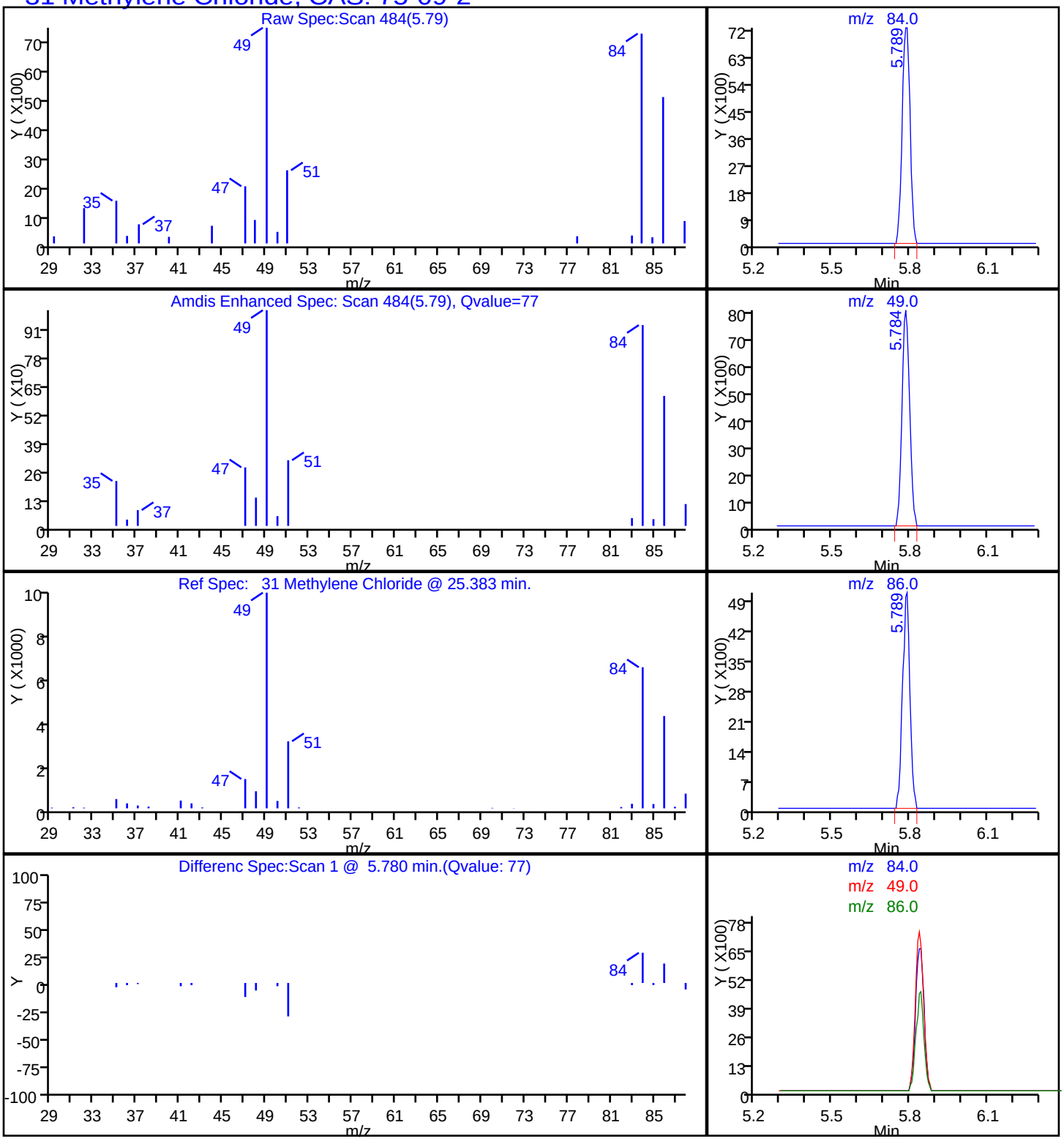
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

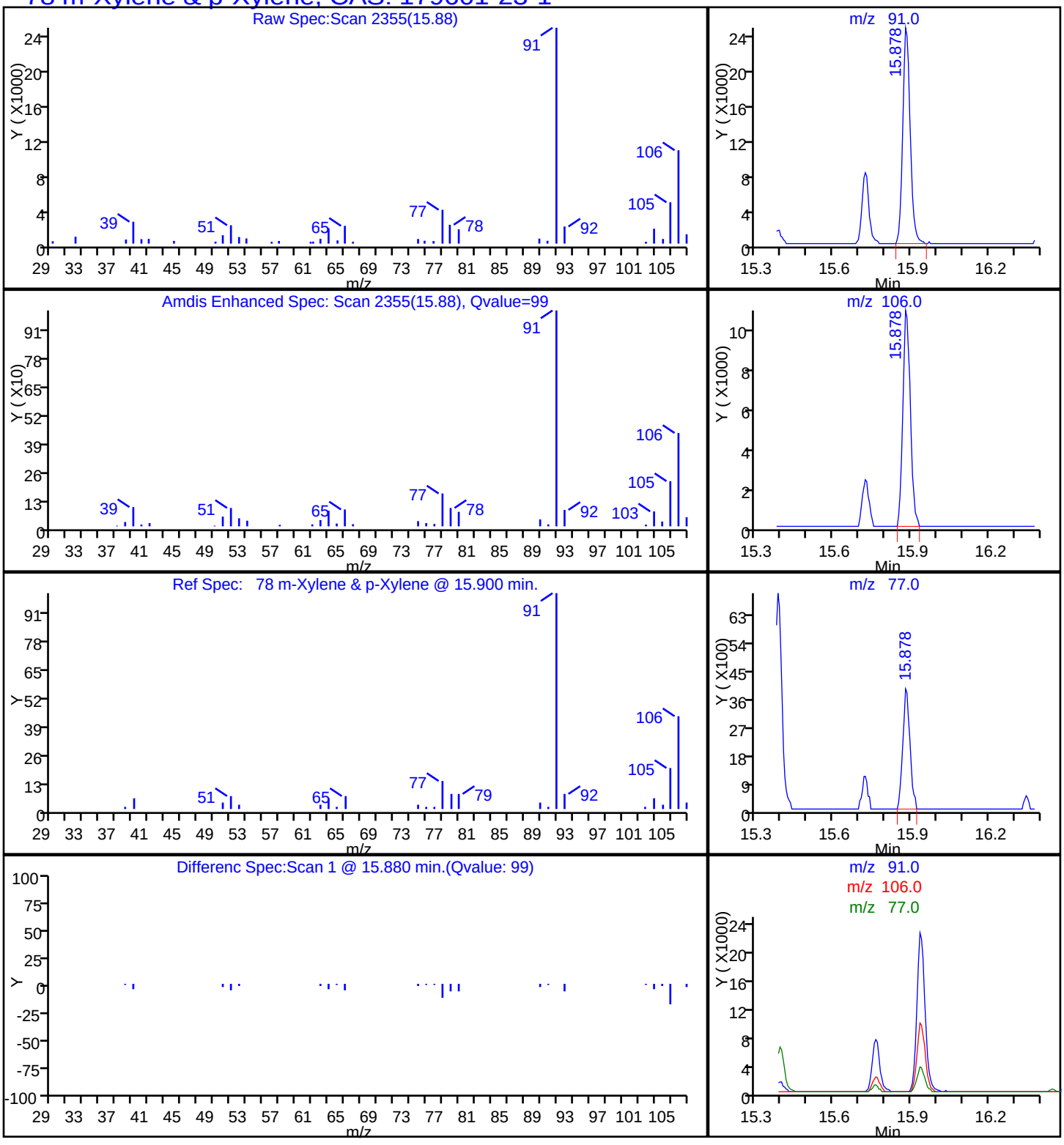
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



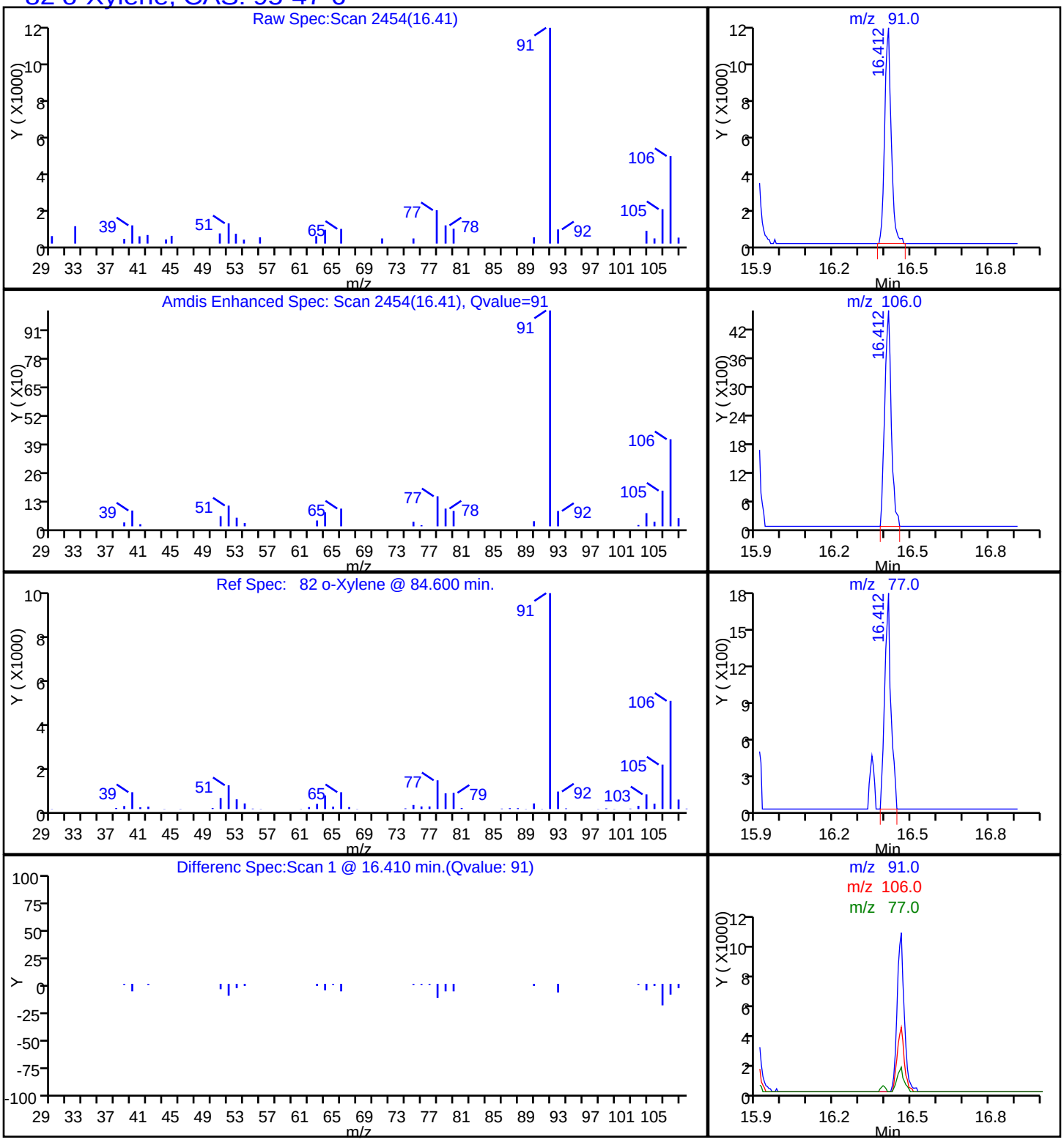
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D
Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME
Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3
Client ID: PCV-IA3-B12
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D
Injection Date: 18-Mar-2014 01:30:30 Instrument ID: ME
Lims ID: 140-1051-A-3 Lab Sample ID: 140-1051-3
Client ID: PCV-IA3-B12
Operator ID: 060487 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

82 o-Xylene, CAS: 95-47-6



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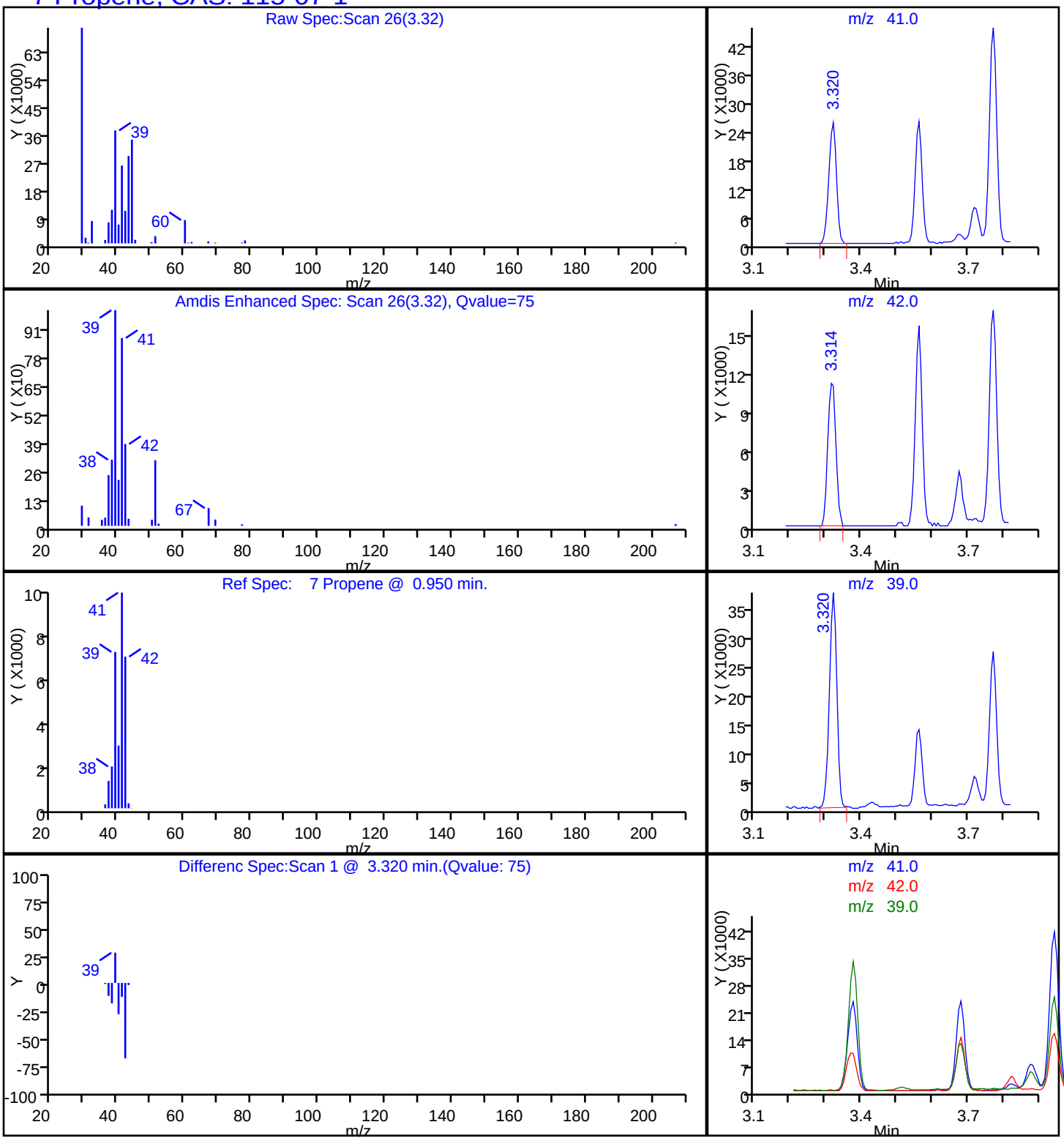
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

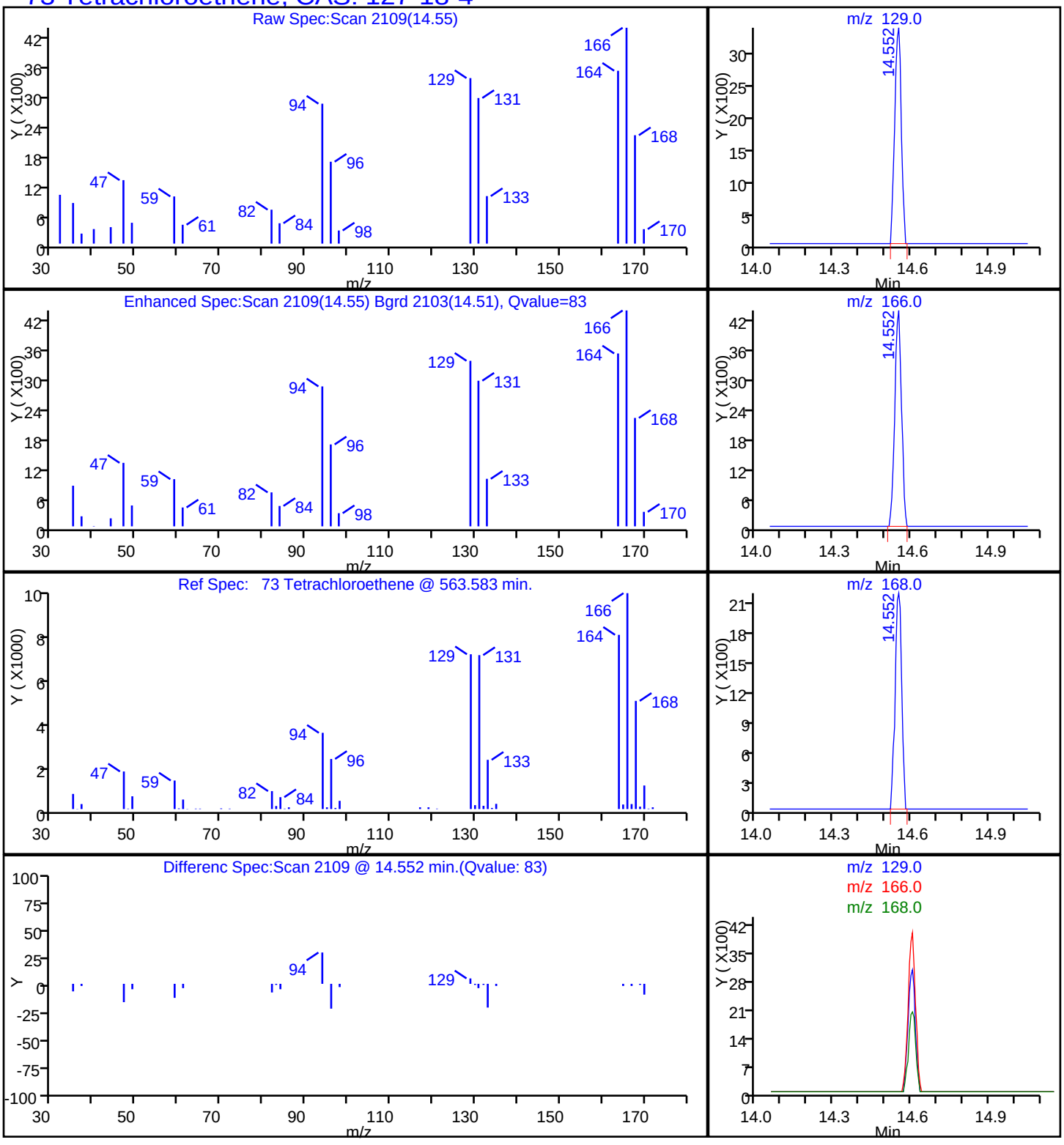
7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



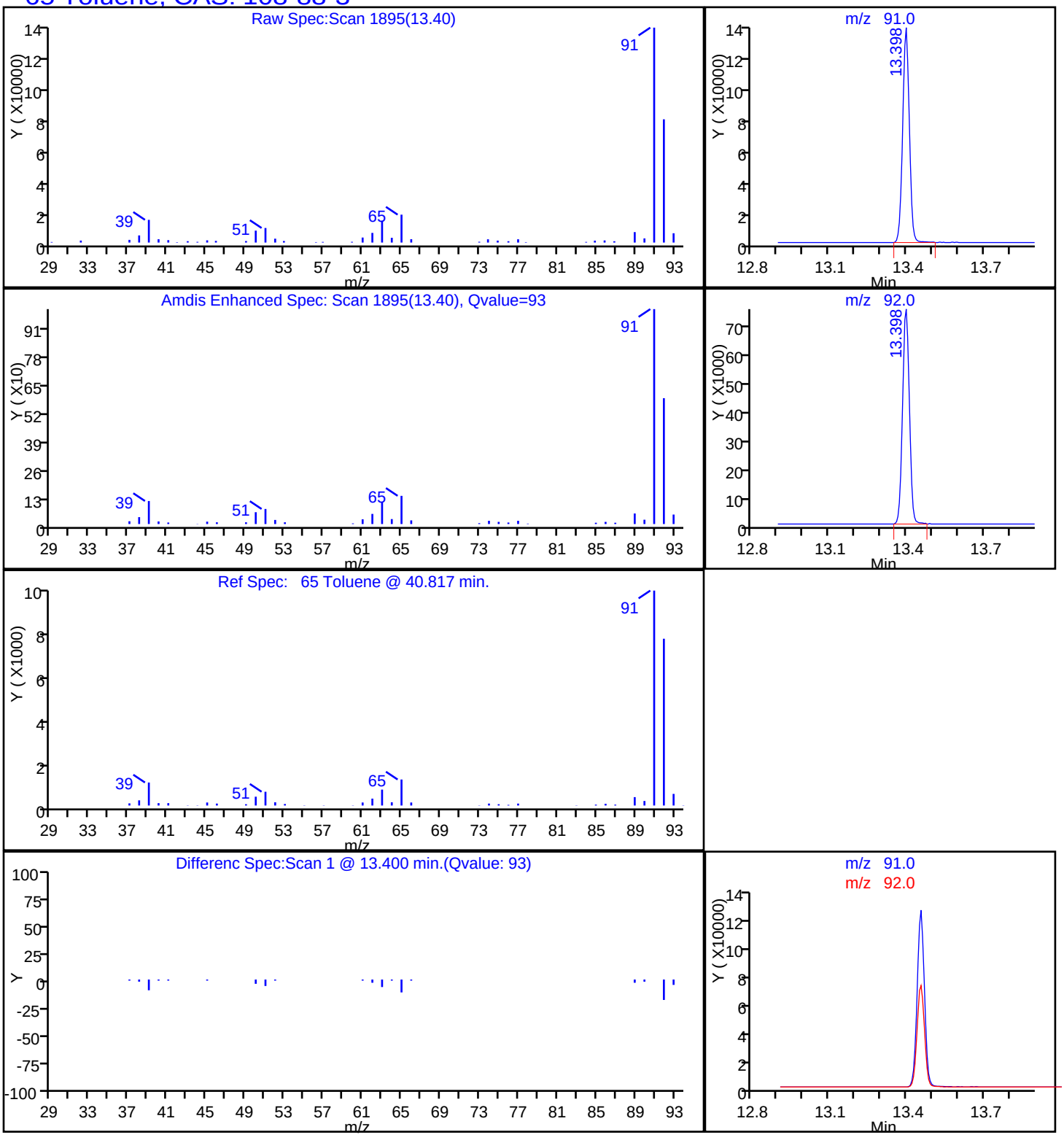
Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D

Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

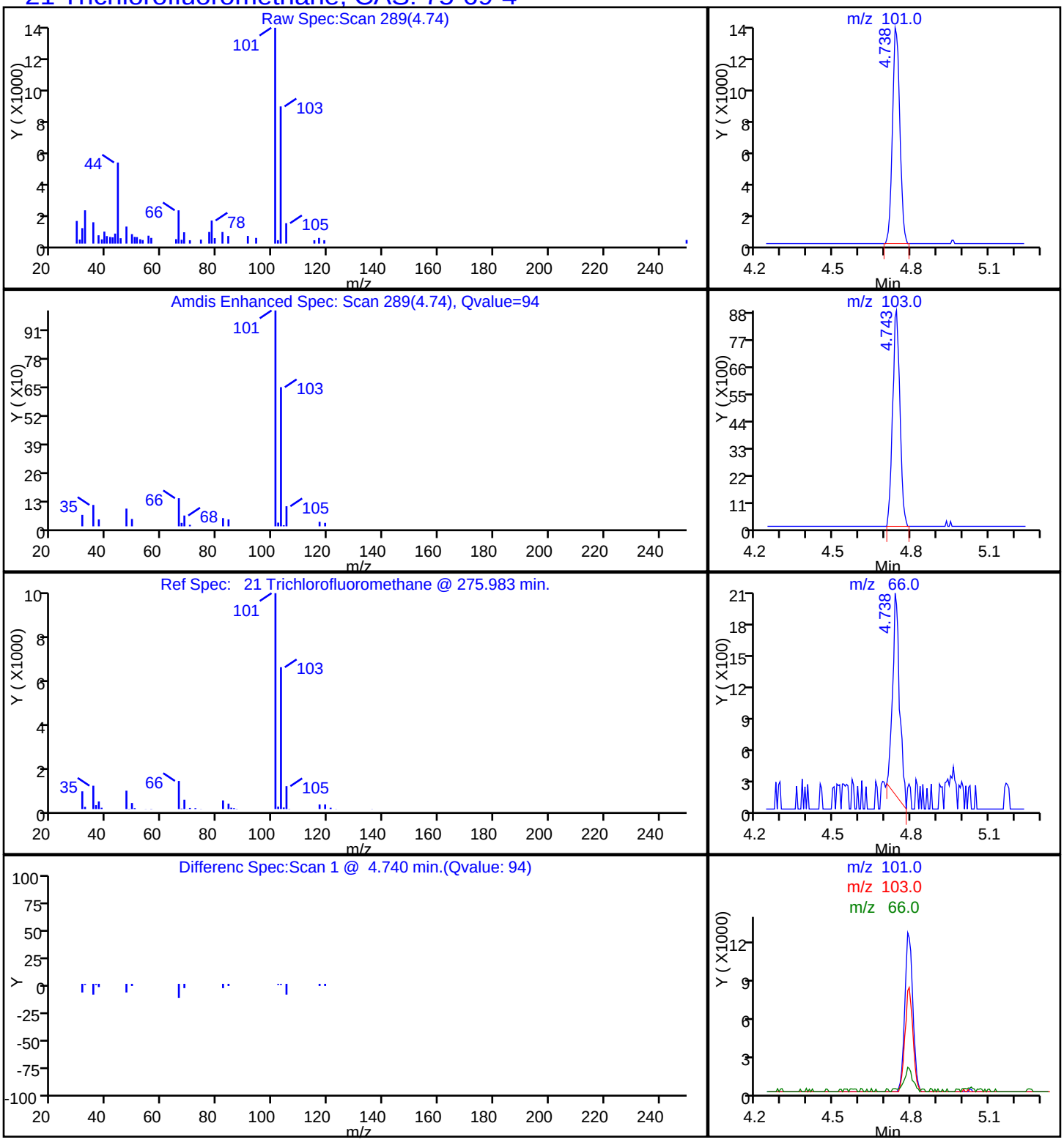


Report Date: 25-Mar-2014 14:36:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS111.D				
Injection Date:	18-Mar-2014 01:30:30	Instrument ID:	ME		
Lims ID:	140-1051-A-3	Lab Sample ID:	140-1051-3		
Client ID:	PCV-IA3-B12				
Operator ID:	060487	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.063	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.090	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.32	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.054	J	0.50	0.045
67-64-1	Acetone	58.08	3.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.27		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	0.049	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.47	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.062	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	15		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.095	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.20	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.1	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.63		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.23		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.075	J	0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.12	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.61		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.48	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.42	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.94	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.22	J	2.0	0.18
67-64-1	Acetone	58.08	7.1	J	12	3.3
71-43-2	Benzene	78.11	0.86		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	0.15	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.98	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.21	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	28		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.39	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.70	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.8	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.2		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.98		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.33	J	0.87	0.26
115-07-1	Propene	42.08	2.1	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.80	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-5 Lab Sample ID: 140-1051-4

Matrix: Air Lab File ID: EC17POS112.D

Analysis Method: TO-15 Date Collected: 03/12/2014 14:55

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 02:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D
Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4
Client ID: PCV-AMB-5
Sample Type: Client
Inject. Date: 18-Mar-2014 02:15:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-4
Misc. Info.: E031714,TO155,,140-0000525-017
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:29:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	216431	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1023656	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	935459	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	839239	4.10	
7 Propene	41	3.319	3.309	0.010	69	26169	0.4807	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	99	47136	0.1969	
9 Chloromethane	52	3.535	3.530	0.005	98	3618	0.1893	
17 Ethanol	31	4.312	4.317	-0.005	98	130105	6.01	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	32441	0.4280	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	93	24034	0.1001	
23 Acetone	58	4.878	4.878	0.0	92	39289	1.20	
24 Isopropyl alcohol	45	4.975	4.970	0.005	90	38173	0.4523	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	70	3739	0.0251	
31 Methylene Chloride	84	5.789	5.789	0.0	76	15514	0.2508	
33 Carbon disulfide	76	5.940	5.940	0.0	82	4431	0.0198	
39 2-Butanone (MEK)	72	7.590	7.579	0.011	88	4501	0.1271	
40 Hexane	56	7.585	7.585	0.0	65	4591	0.0797	
49 Cyclohexane	69	9.984	9.984	0.0	35	961	0.0249	
48 Benzene	78	9.990	9.995	-0.005	92	22264	0.1081	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	88	5371	0.0271	
53 Isooctane	57	10.783	10.783	0.001	80	11479	0.0361	
54 n-Heptane	71	11.176	11.182	-0.006	69	2959	0.0379	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	54	2639	0.0218	
65 Toluene	91	13.398	13.403	-0.005	93	60834	0.2427	
73 Tetrachloroethene	129	14.546	14.552	-0.006	82	5033	0.0472	
78 m-Xylene & p-Xylene	91	15.878	15.889	-0.011	95	22844	0.0904	
82 o-Xylene	91	16.407	16.412	-0.005	74	8228	0.0301	

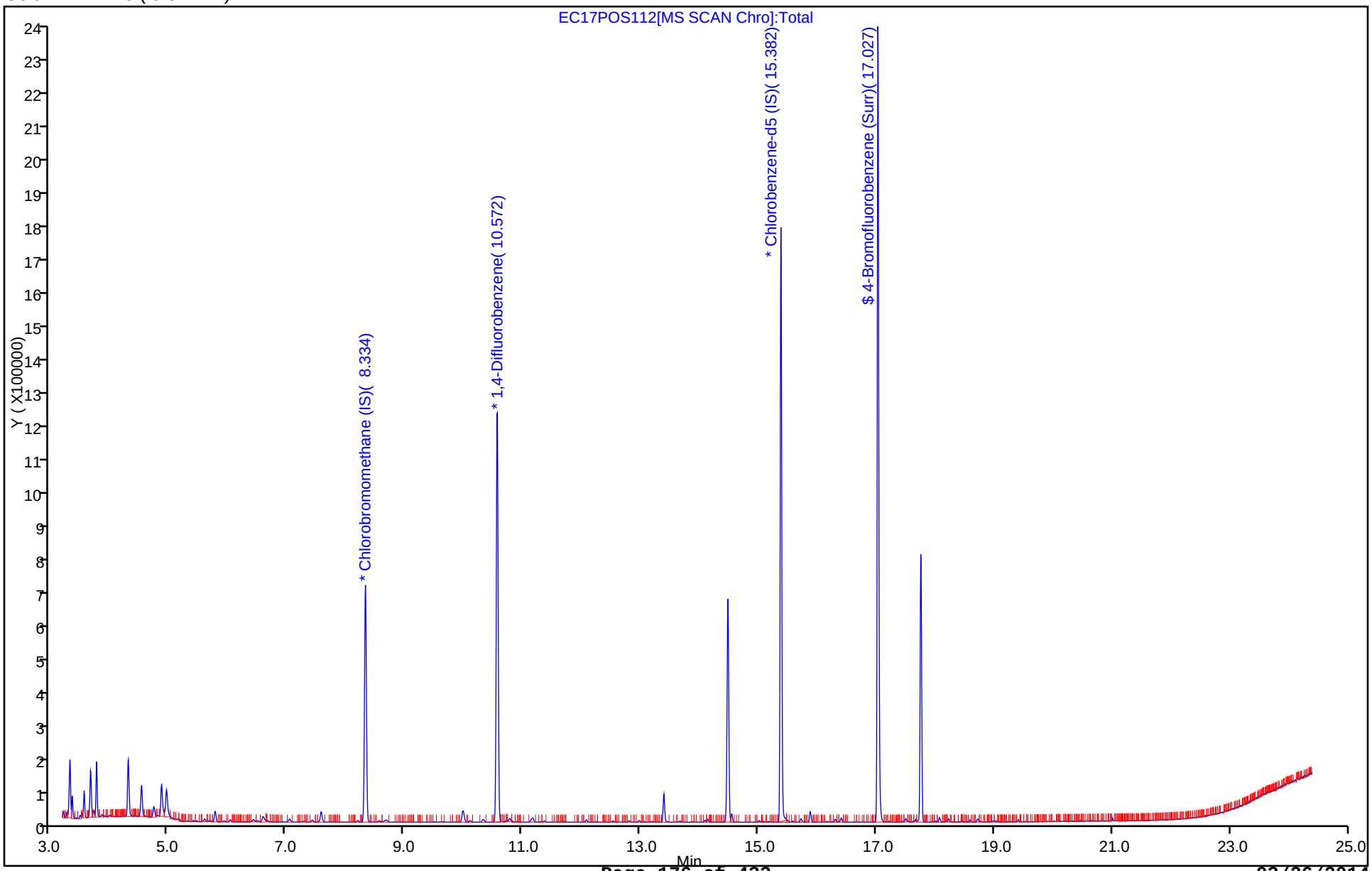
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4	Worklist Smp#:	17
Client ID:	PCV-AMB-5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

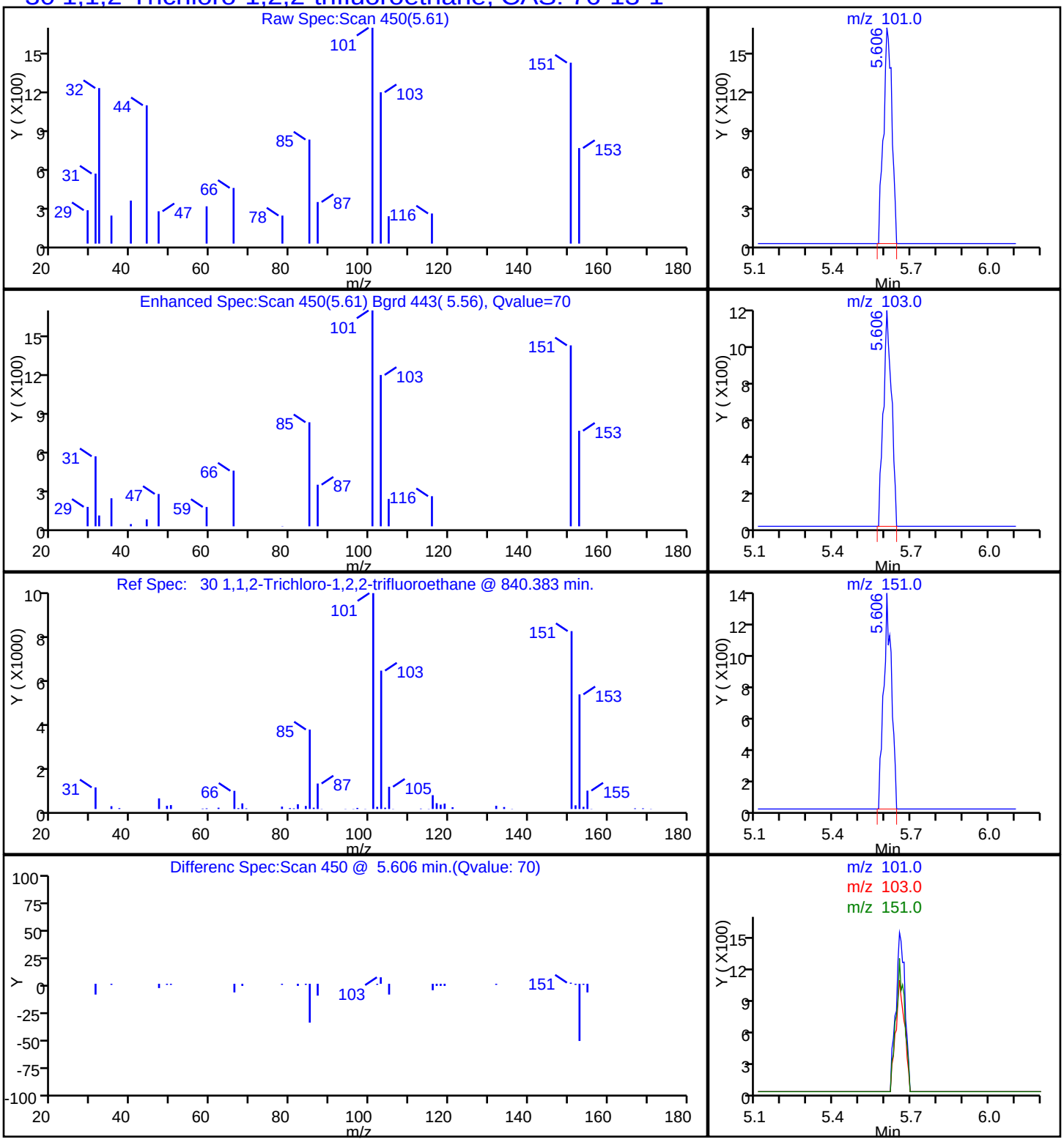
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date: 18-Mar-2014 02:15:30 Instrument ID: ME

Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4

Client ID: PCV-AMB-5

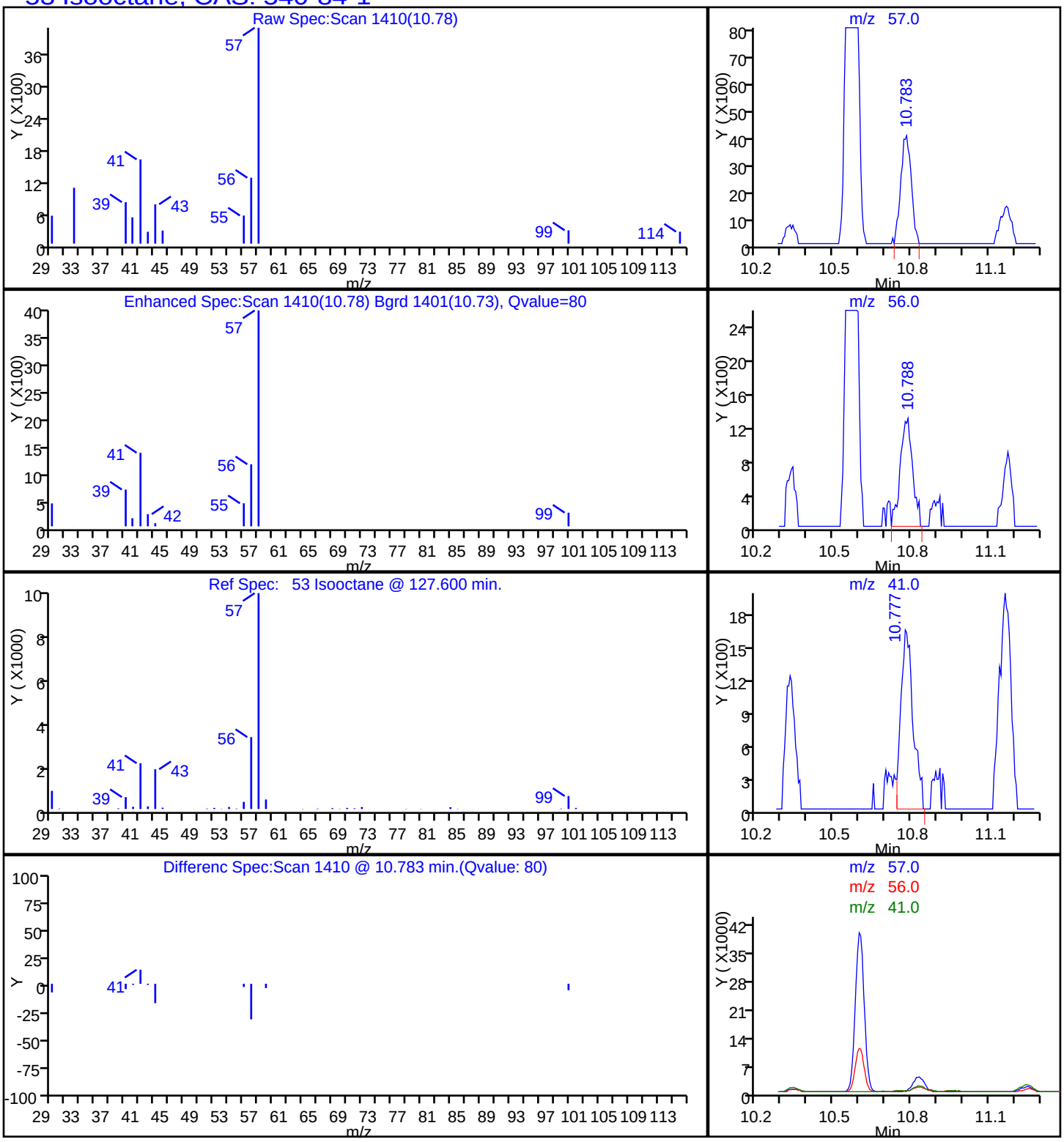
Operator ID: 060487 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



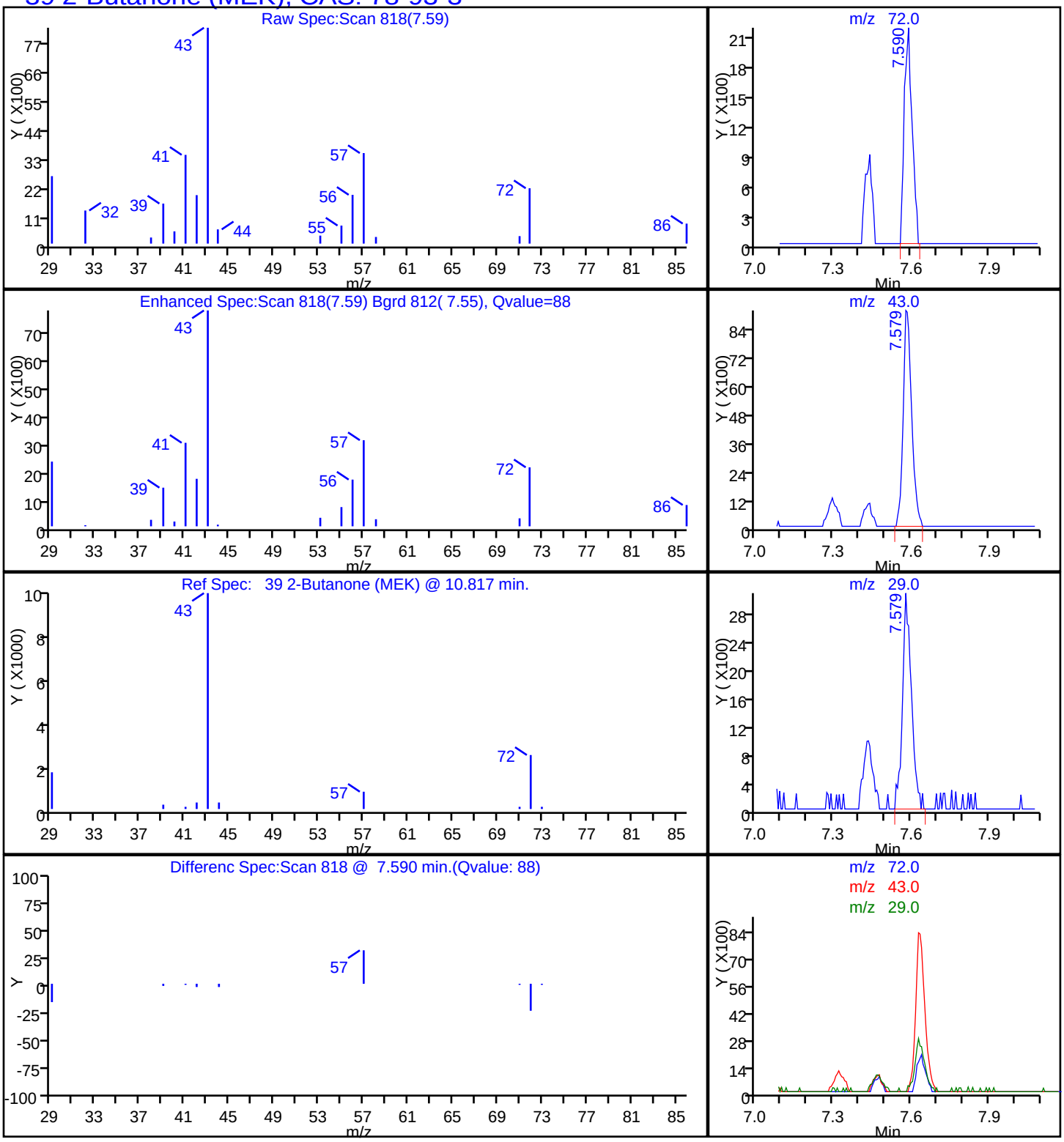
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date: 18-Mar-2014 02:15:30 Instrument ID: ME

Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4

Client ID: PCV-AMB-5

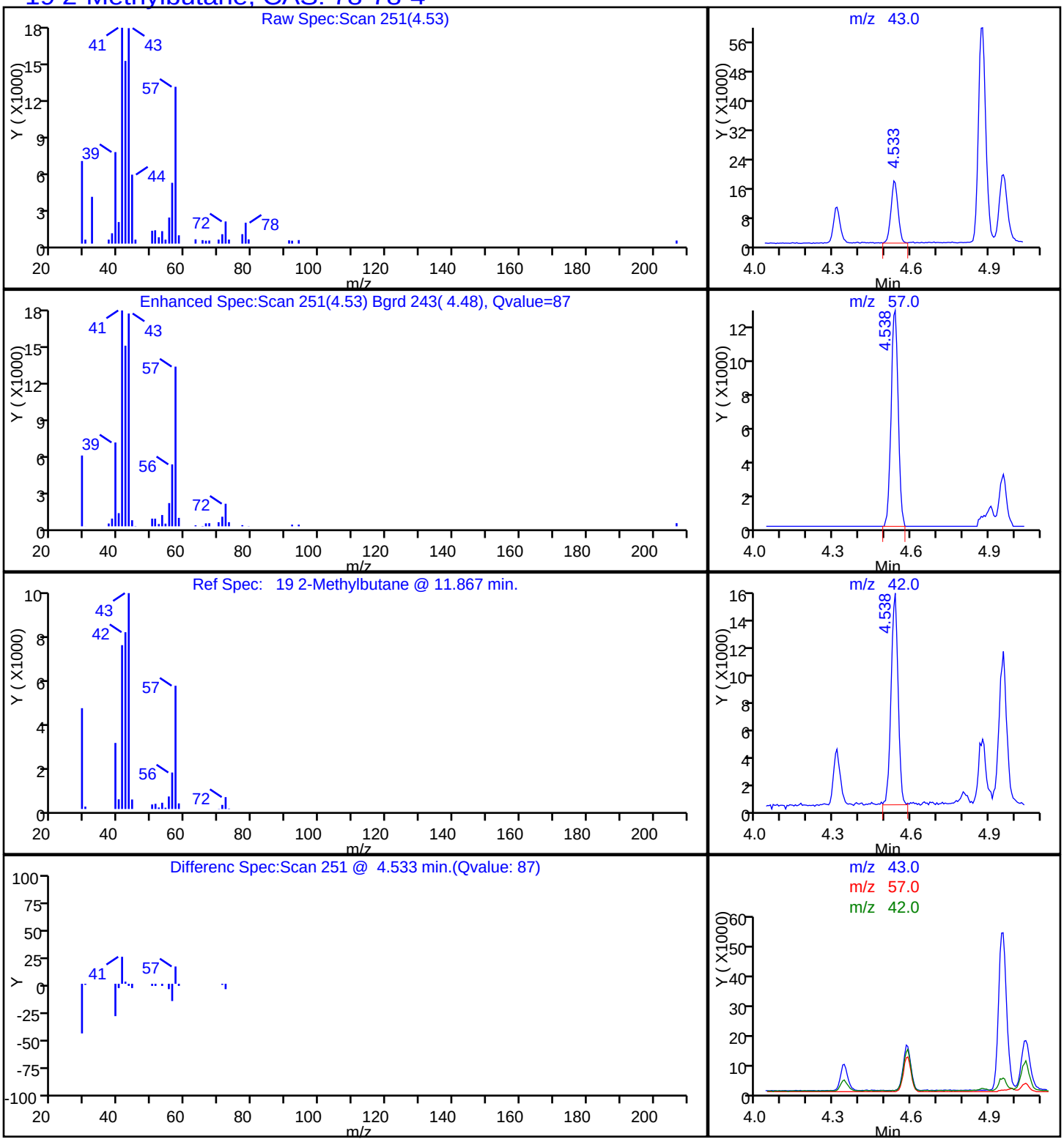
Operator ID: 060487 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4

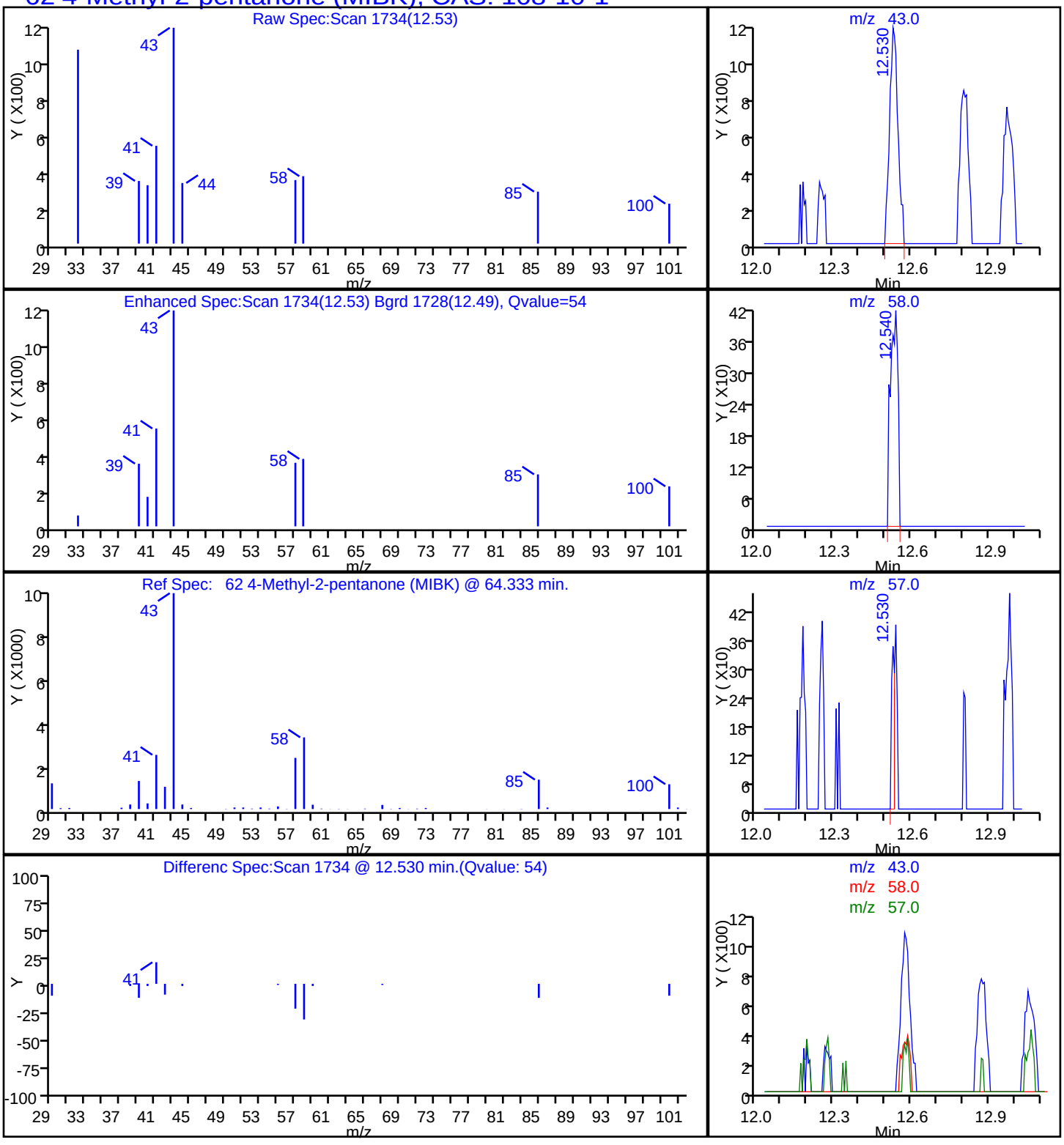


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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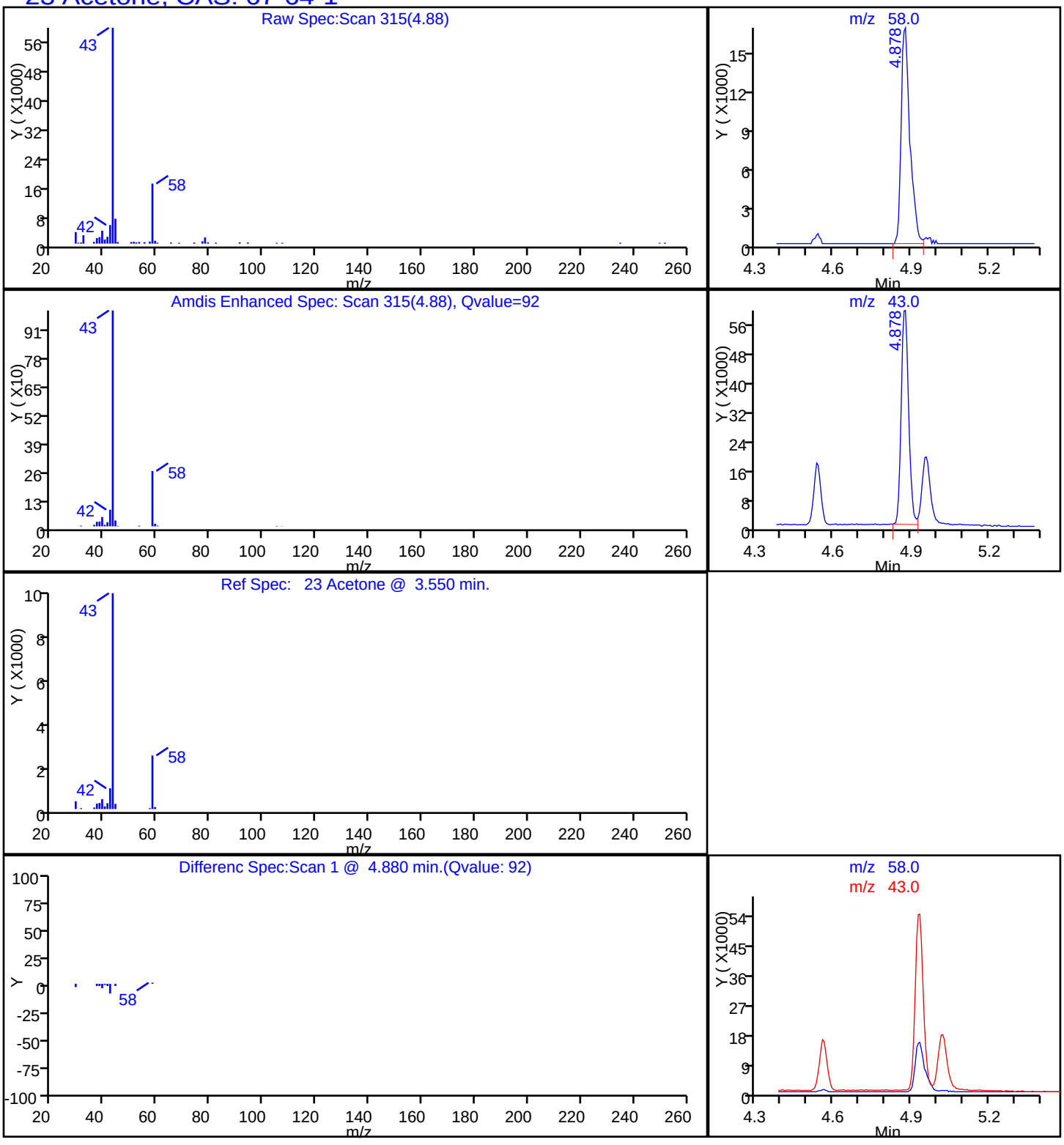
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4
Client ID:	PCV-AMB-5		
Operator ID:	060487	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



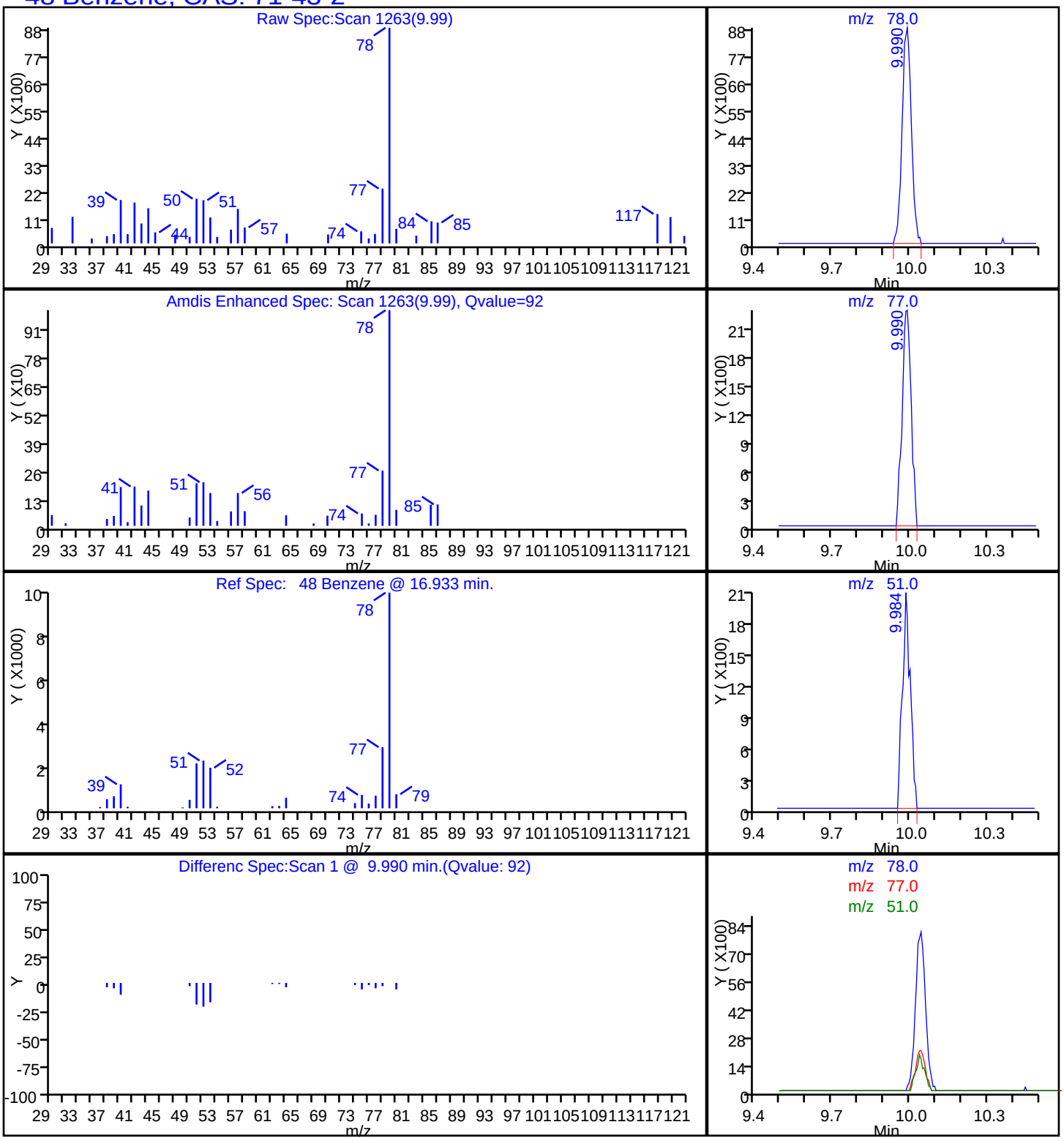
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



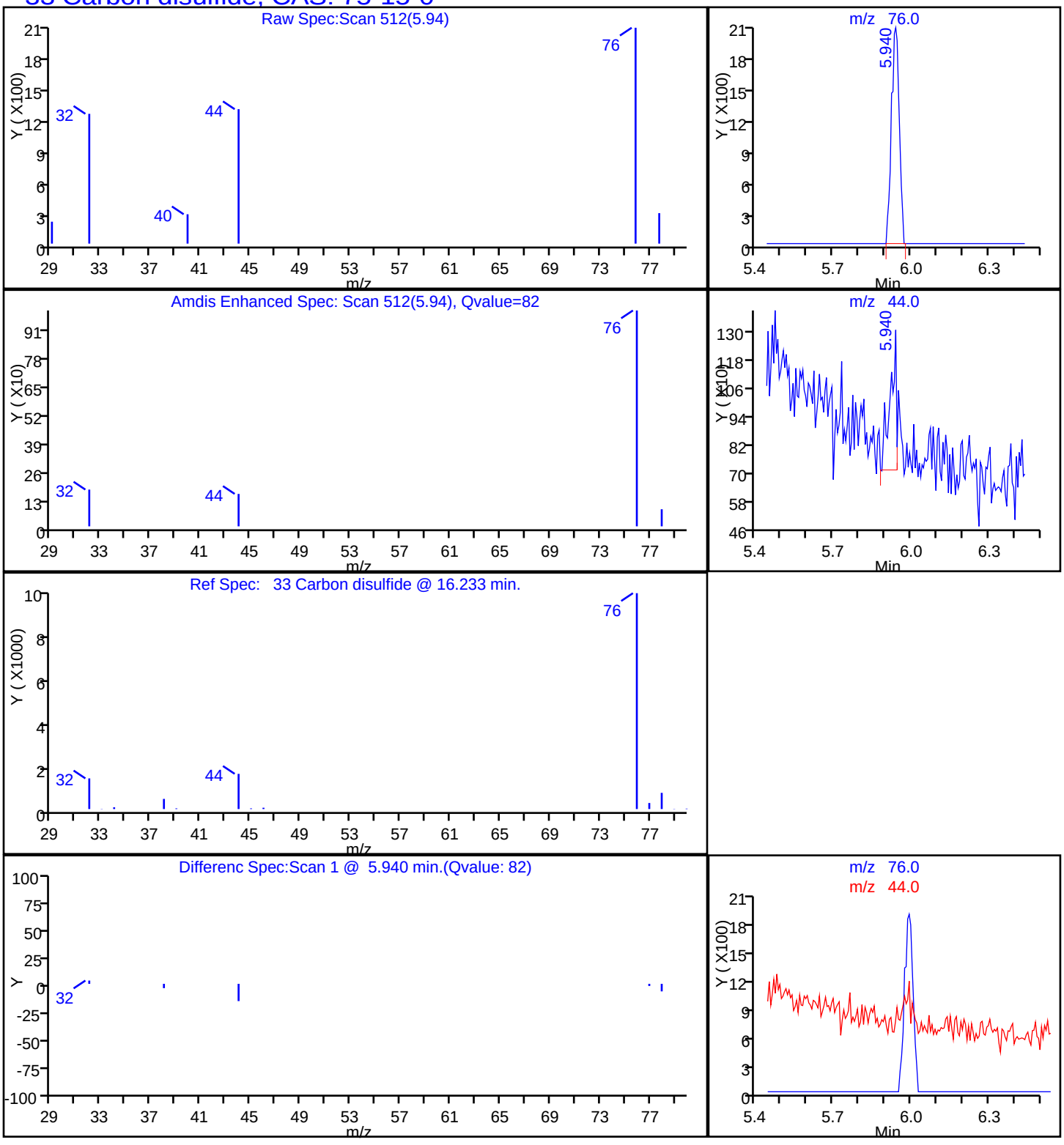
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4
Client ID:	PCV-AMB-5		
Operator ID:	060487	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

33 Carbon disulfide, CAS: 75-15-0



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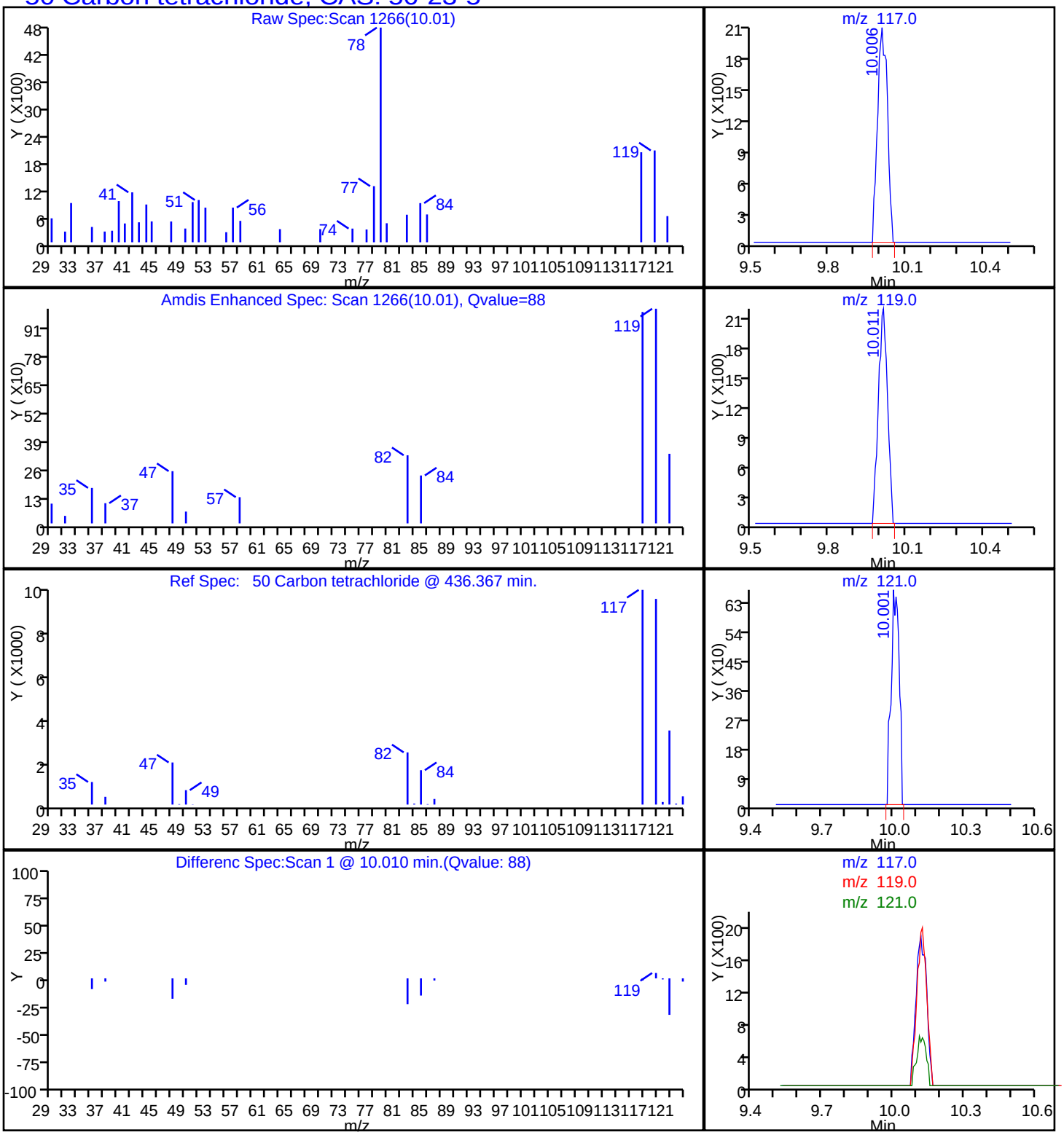
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date: 18-Mar-2014 02:15:30 Instrument ID: ME

Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4

Client ID: PCV-AMB-5

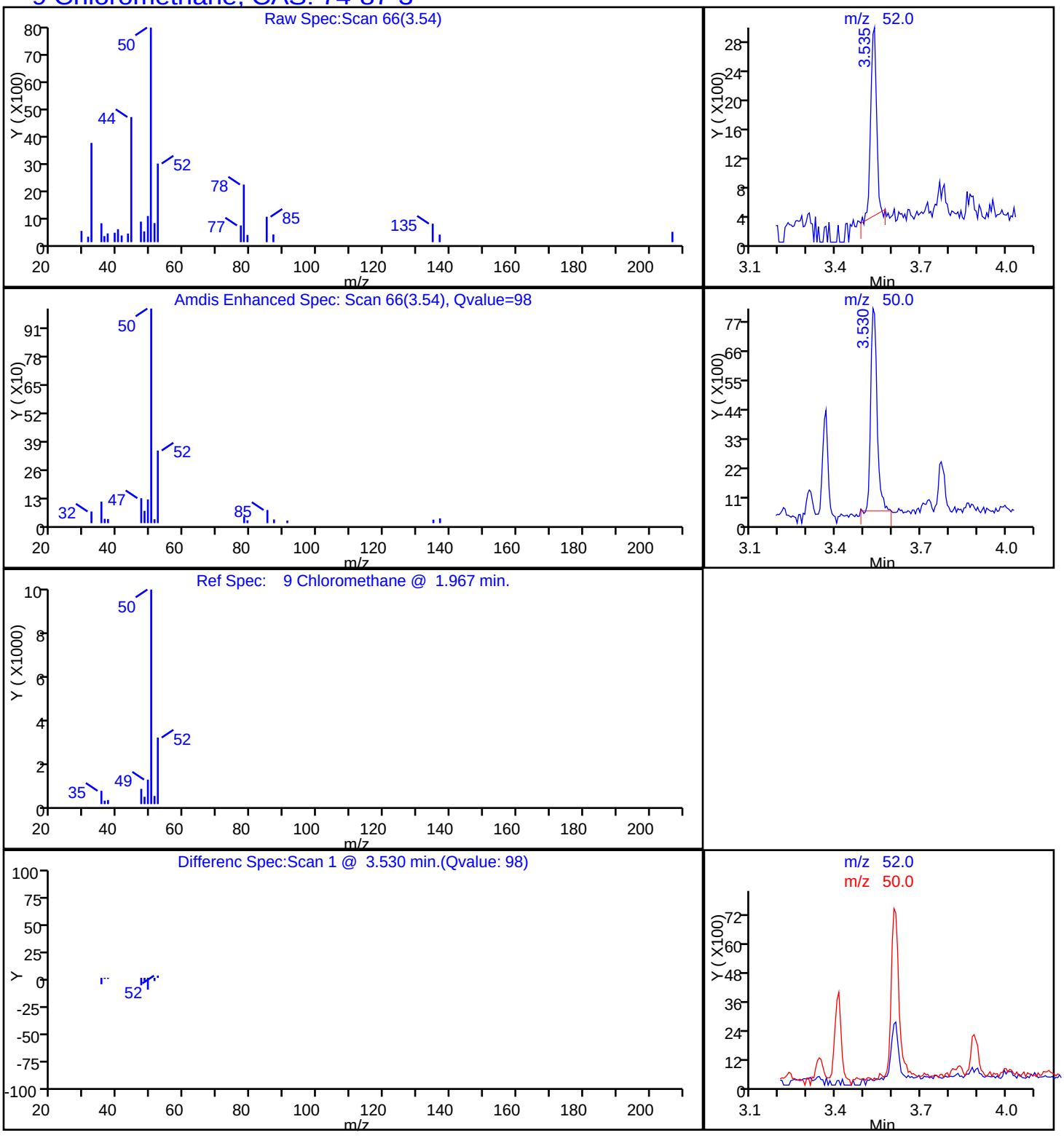
Operator ID: 060487 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3

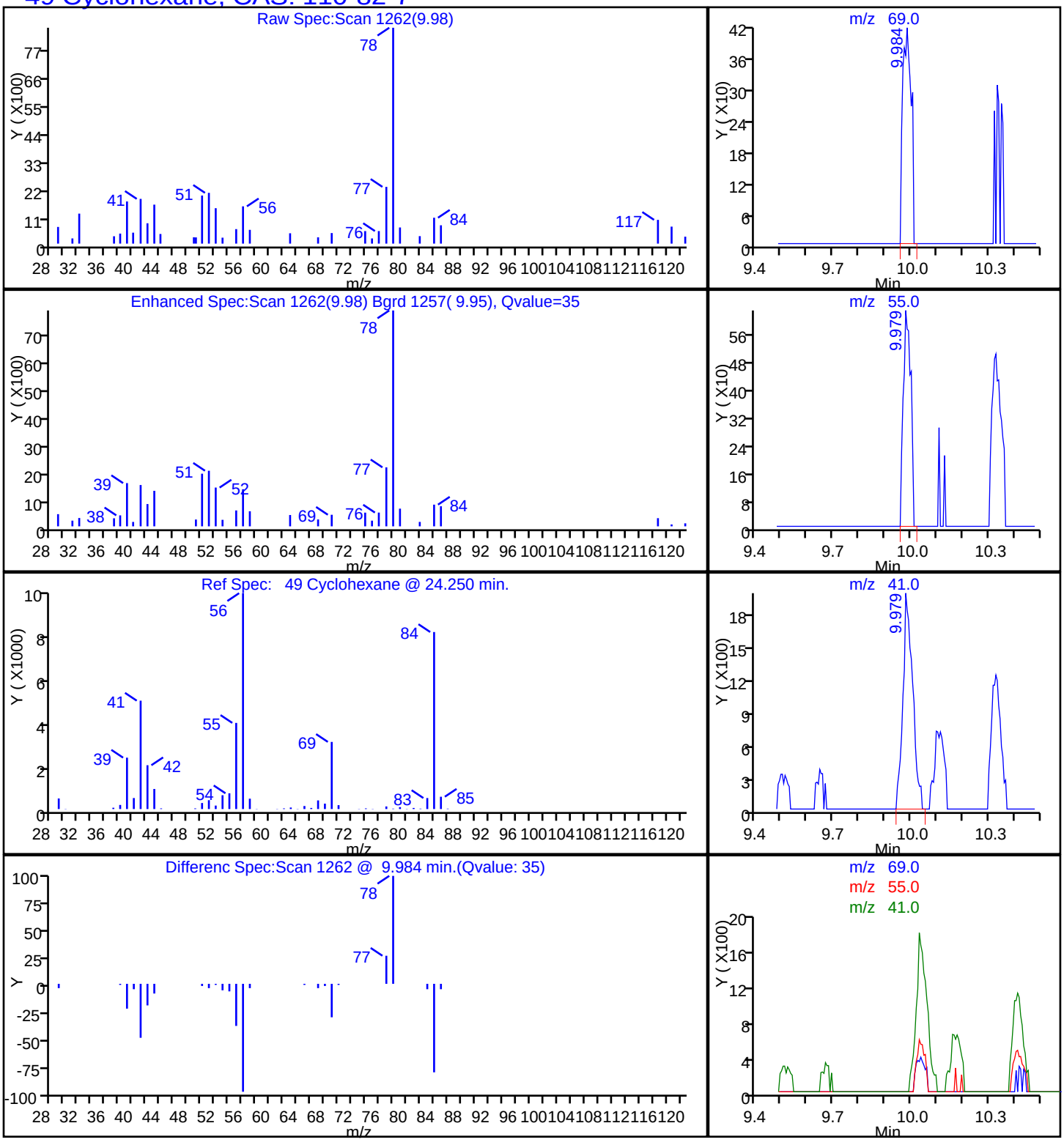


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7

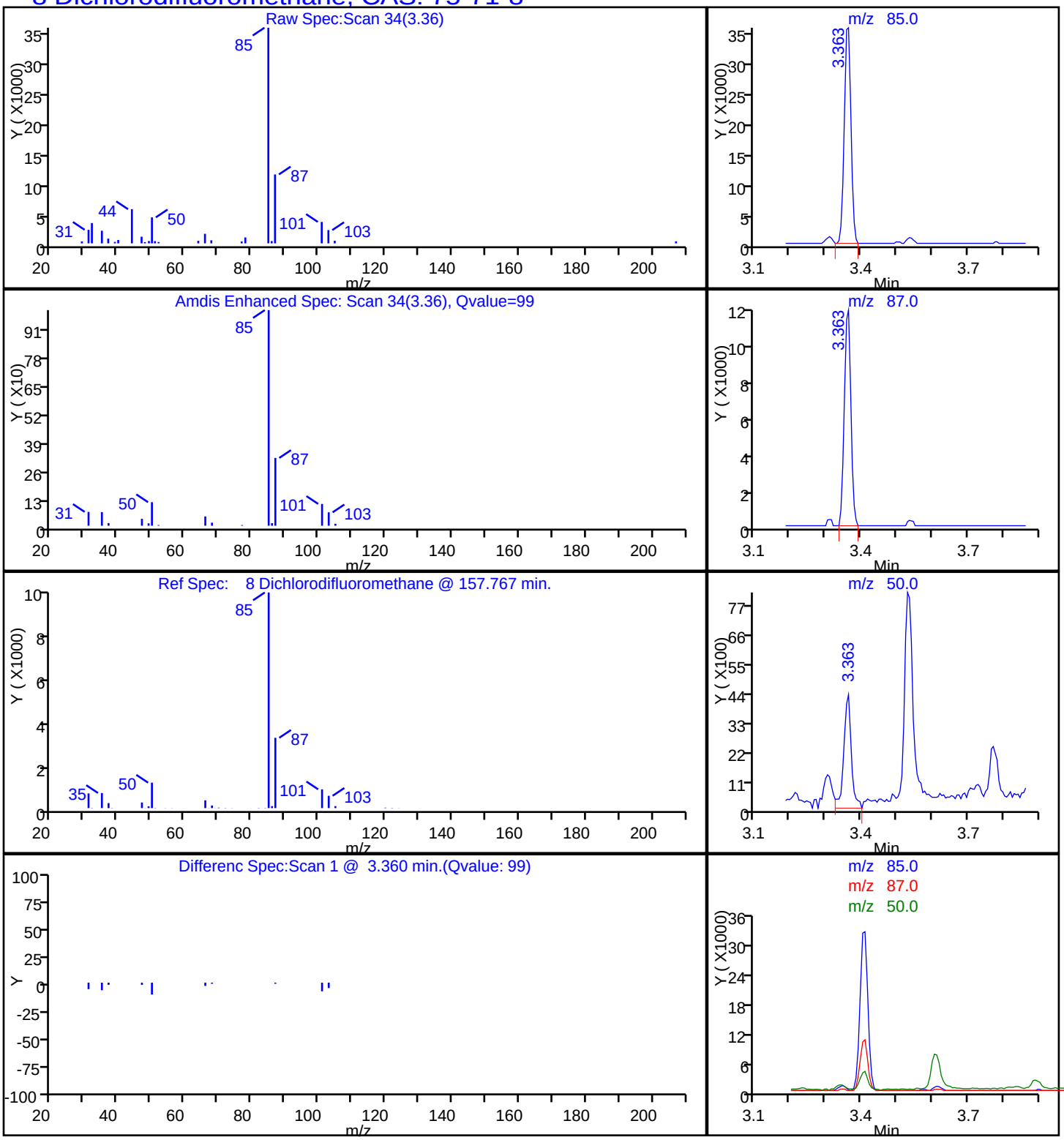


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



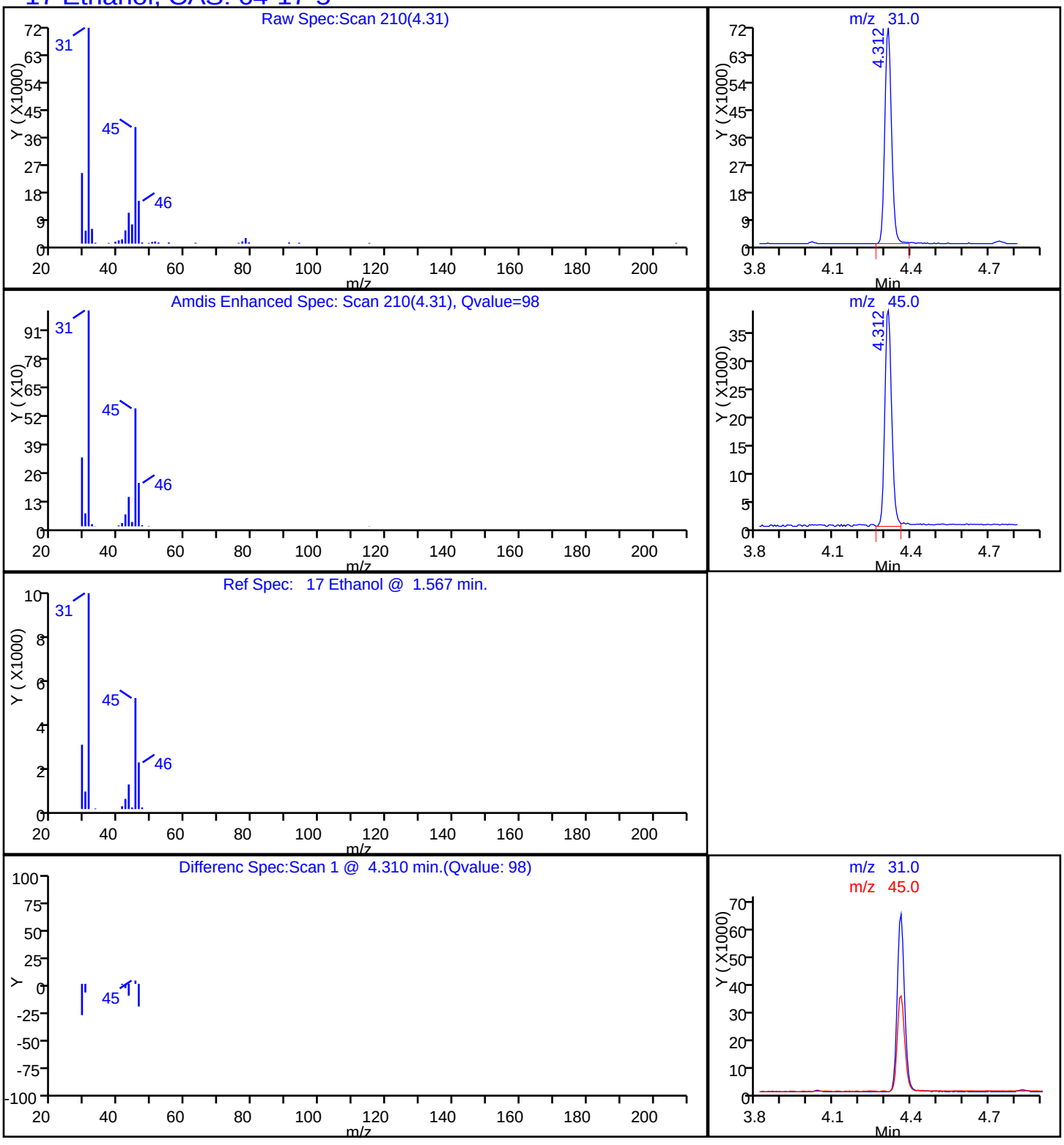
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4
Client ID:	PCV-AMB-5		
Operator ID:	060487	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

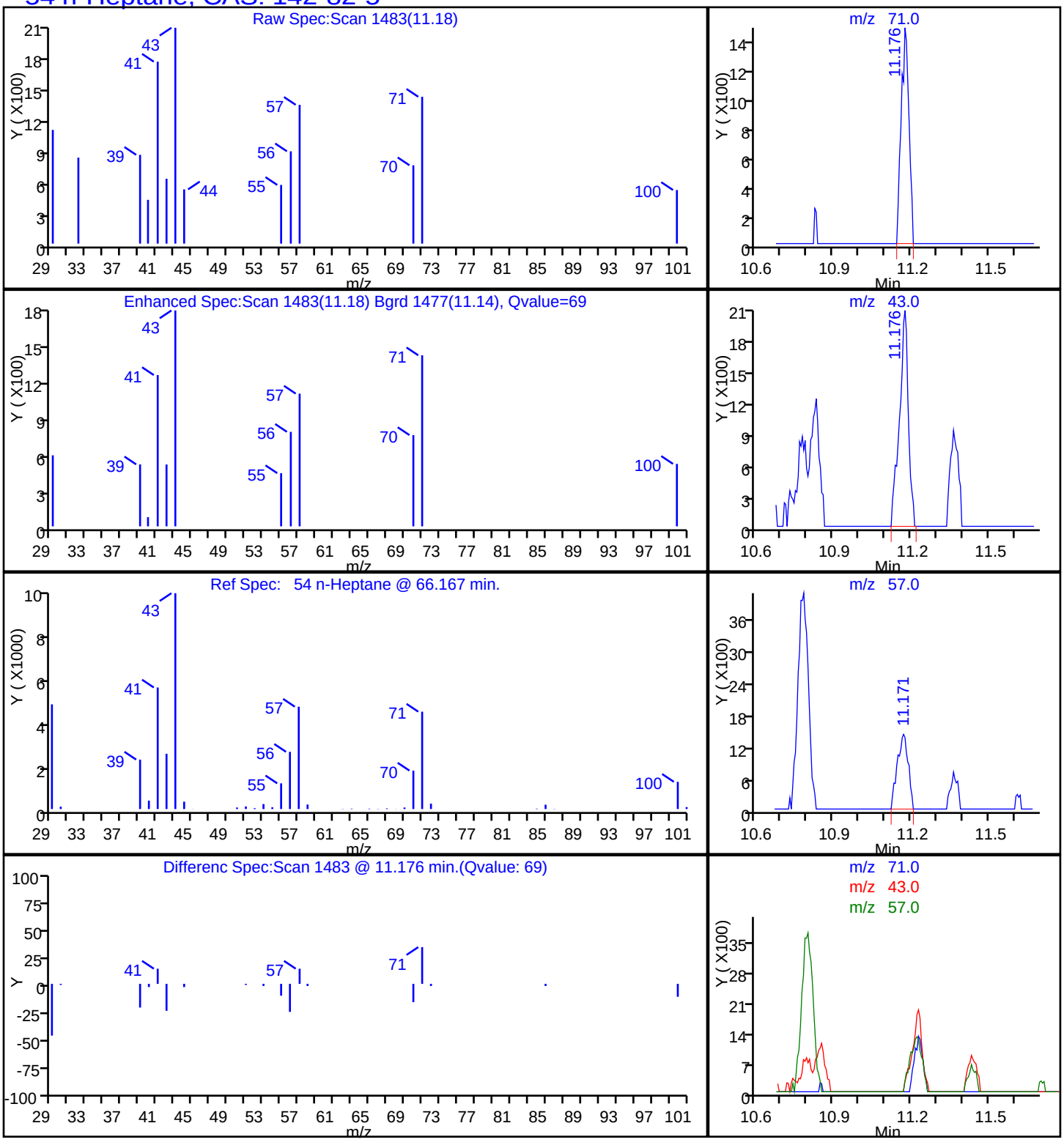


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

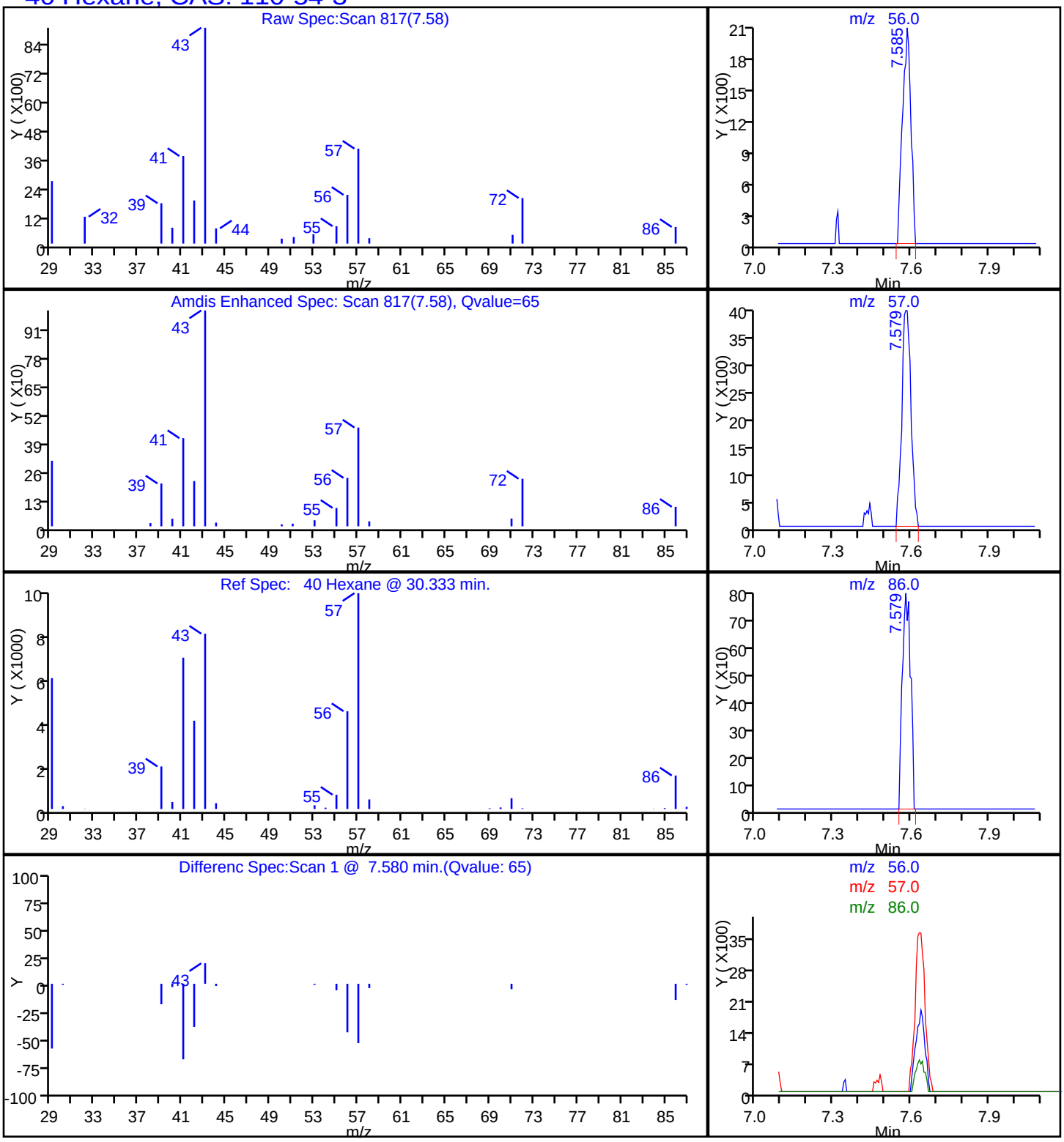


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



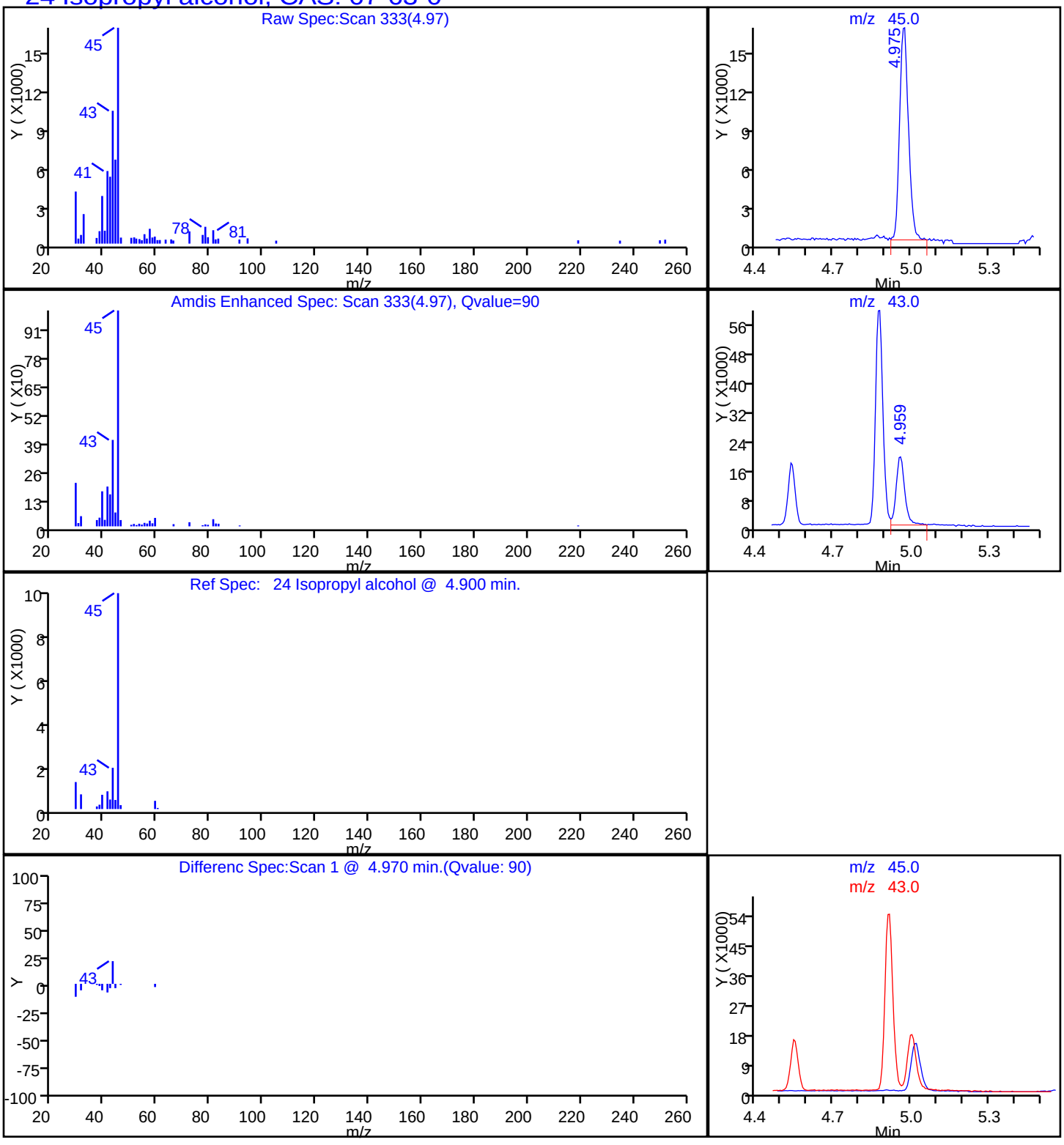
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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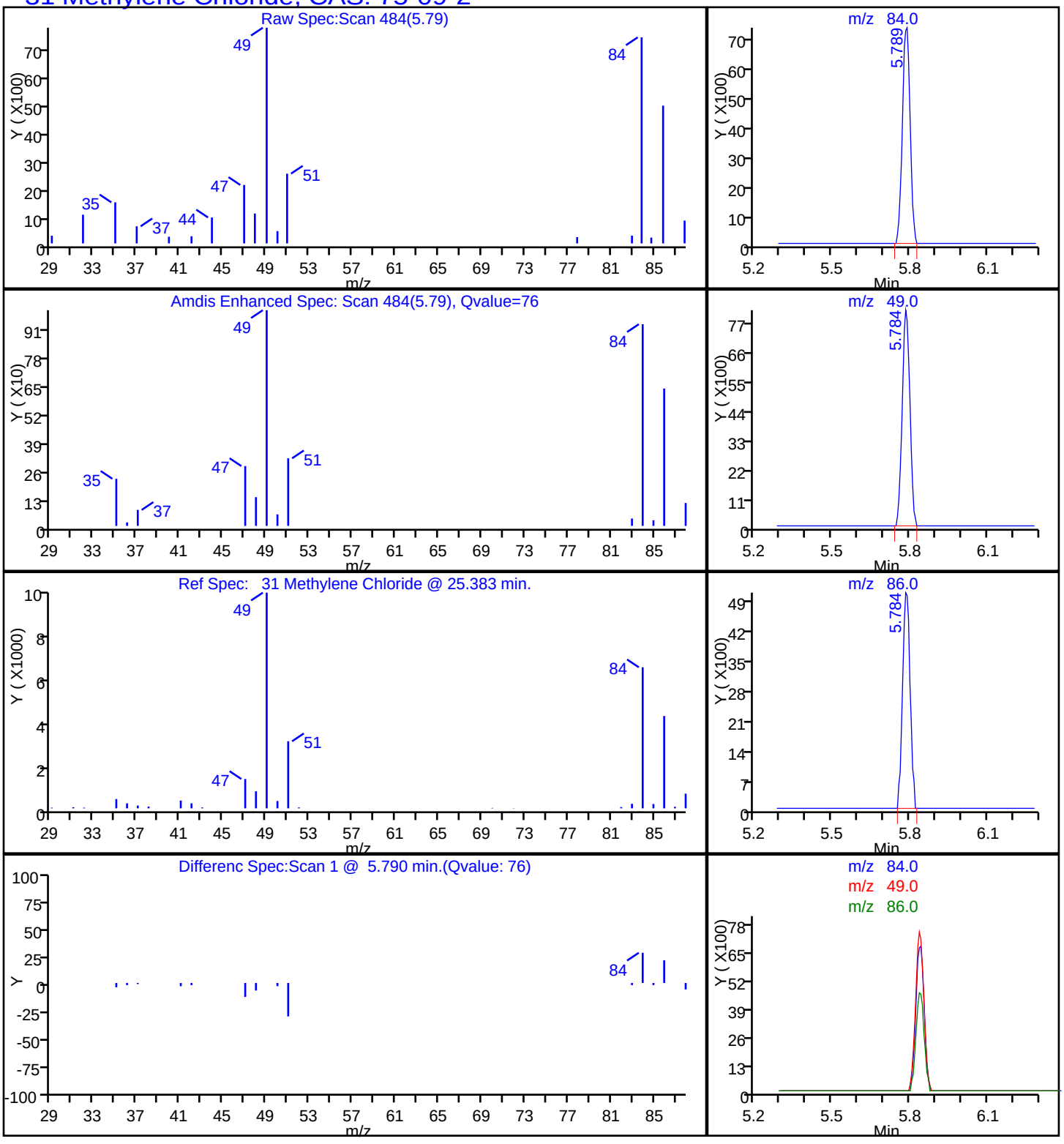
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4
Client ID:	PCV-AMB-5		
Operator ID:	060487	ALS Bottle#:	12 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

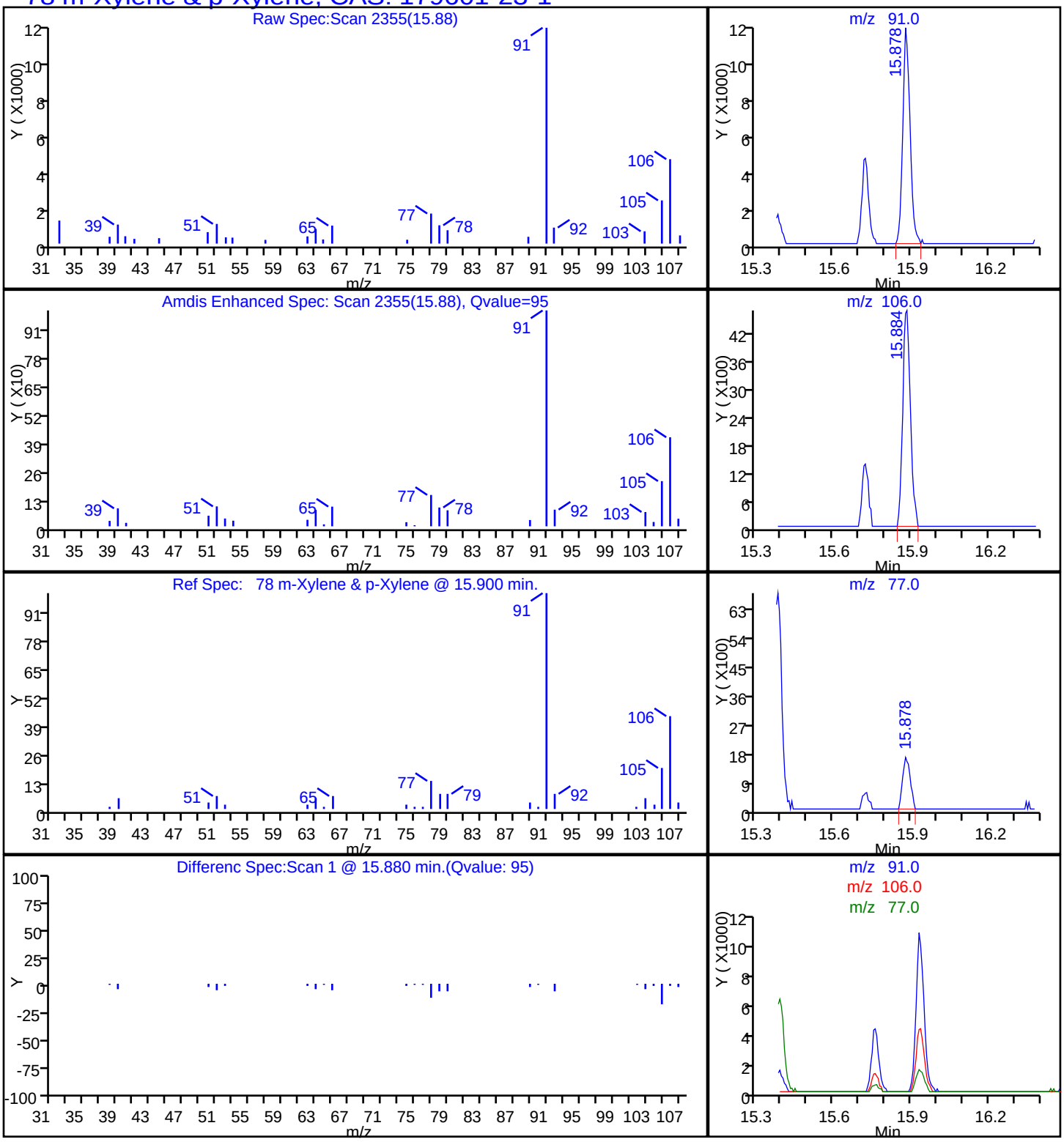


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

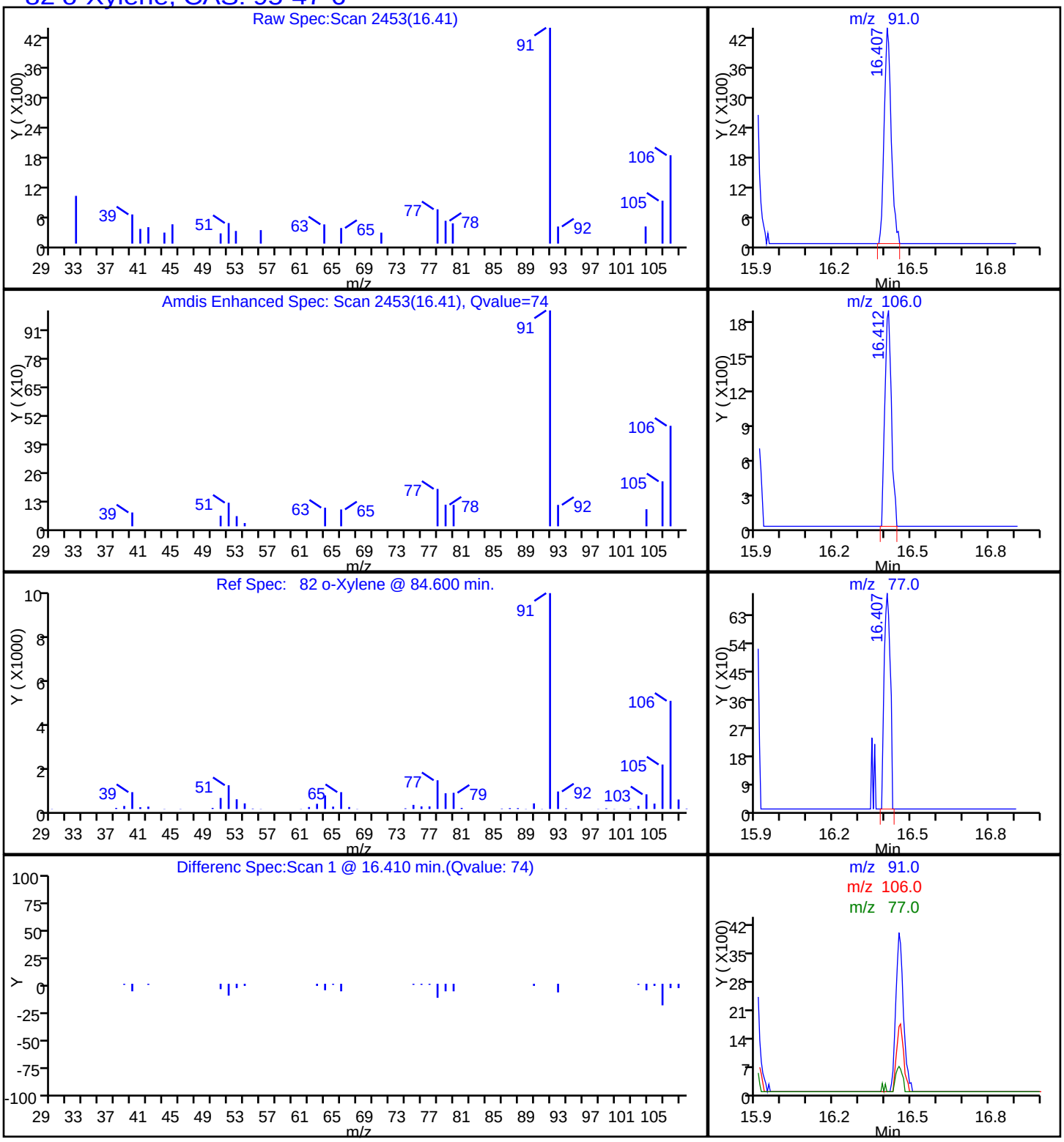


Report Date: 25-Mar-2014 14:36:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6

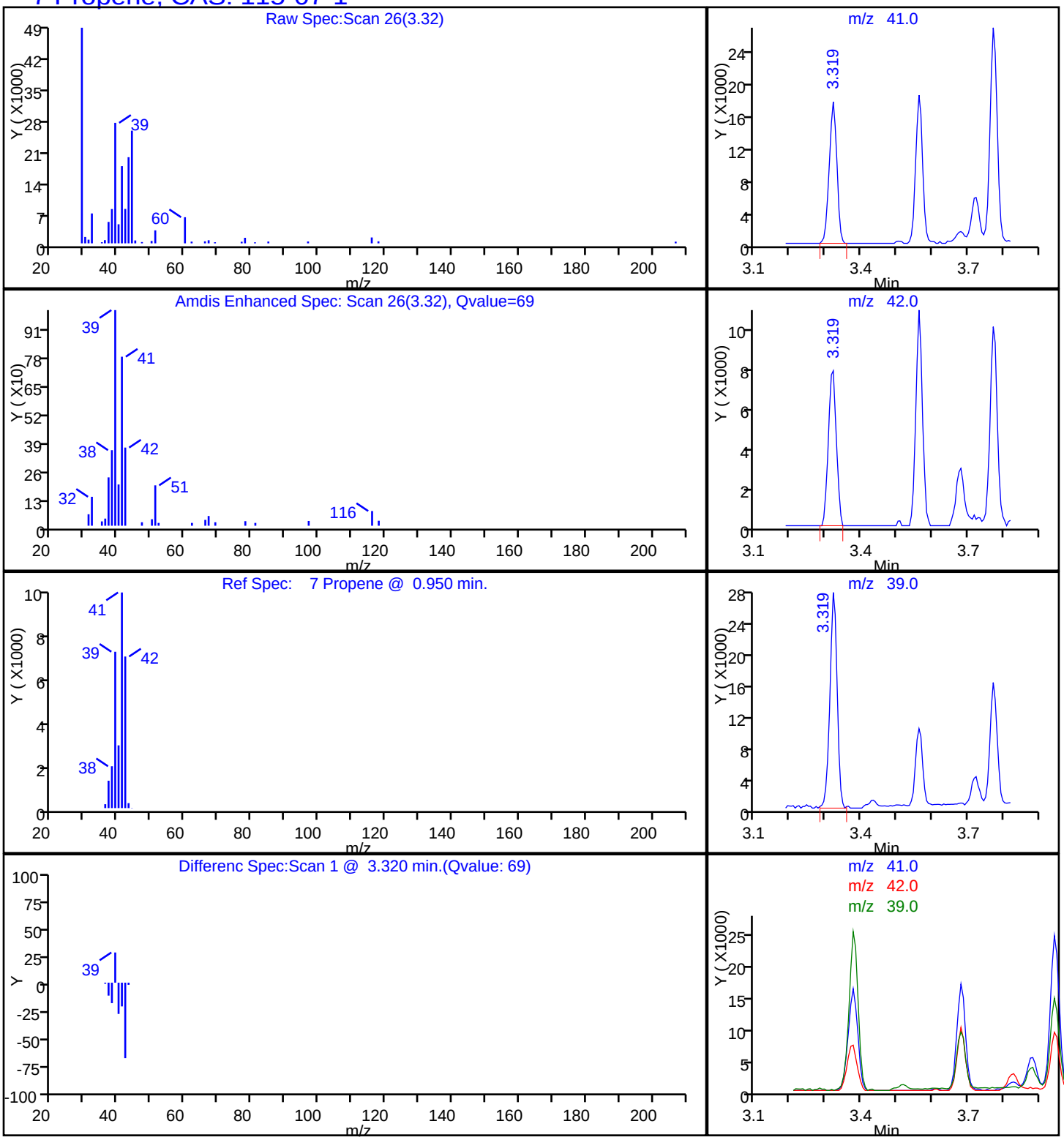


Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D				
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date: 18-Mar-2014 02:15:30 Instrument ID: ME

Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4

Client ID: PCV-AMB-5

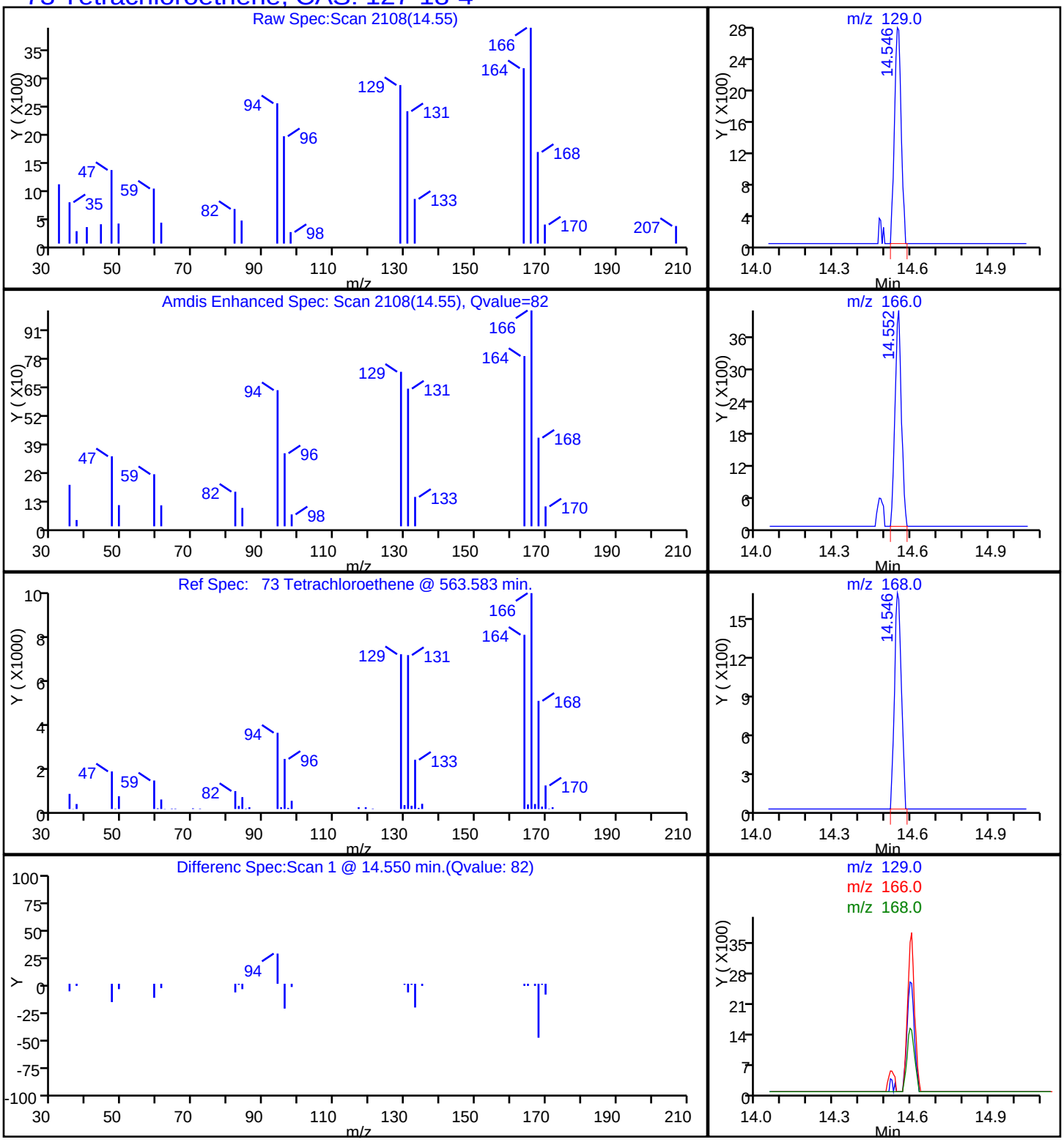
Operator ID: 060487 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



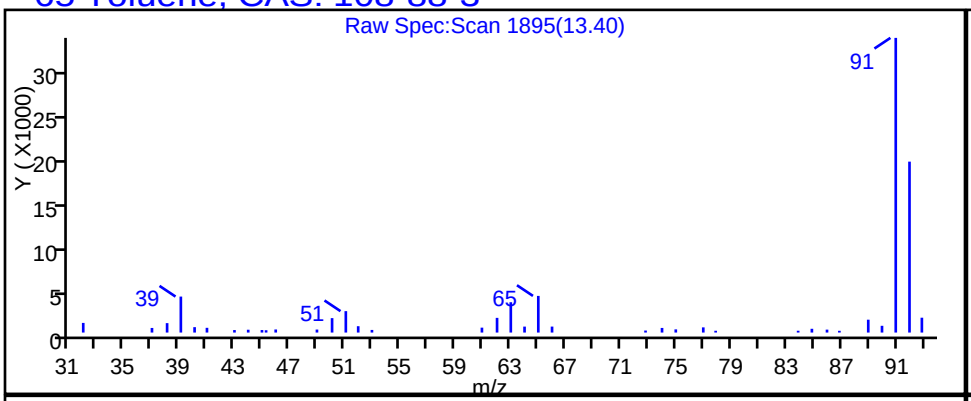
Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

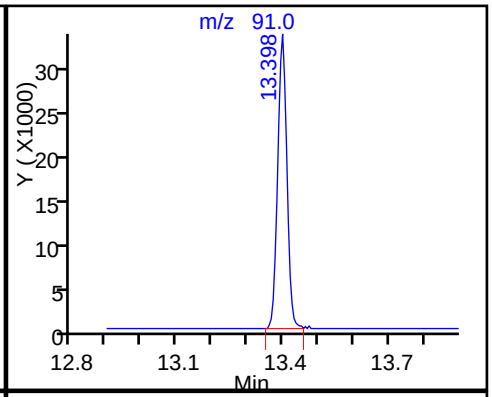
TestAmerica Knoxville

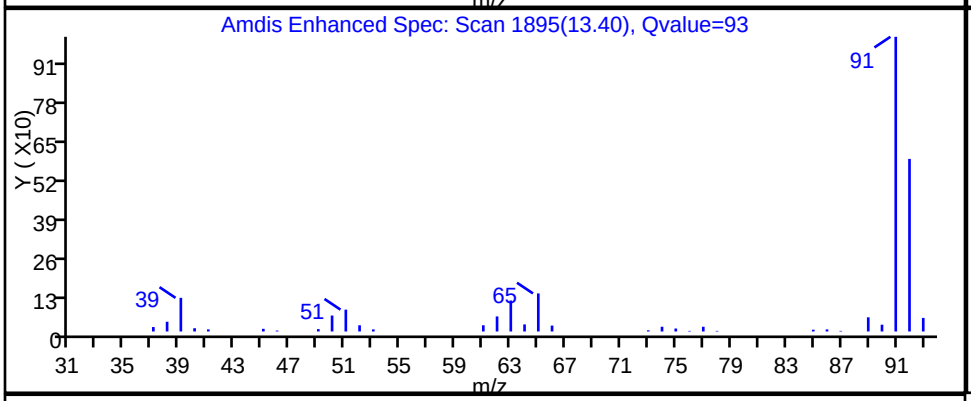
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

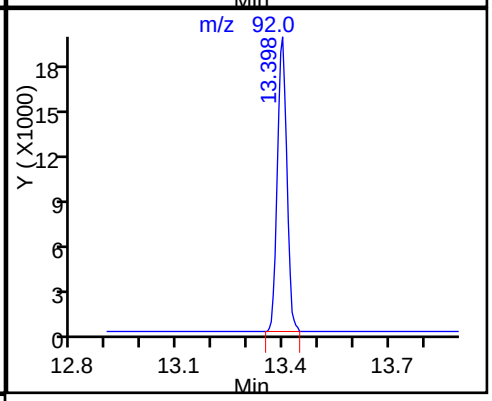
Injection Date:	18-Mar-2014 02:15:30	Instrument ID:	ME		
Lims ID:	140-1051-A-4	Lab Sample ID:	140-1051-4		
Client ID:	PCV-AMB-5				
Operator ID:	060487	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

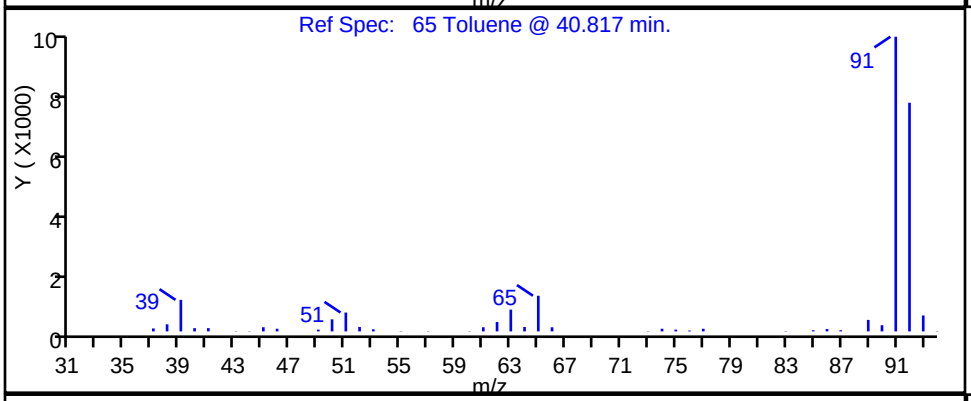
65 Toluene, CAS: 108-88-3

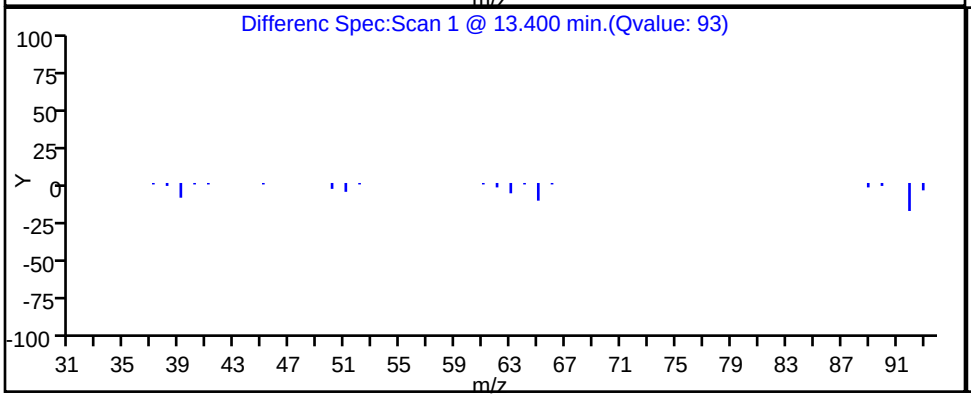


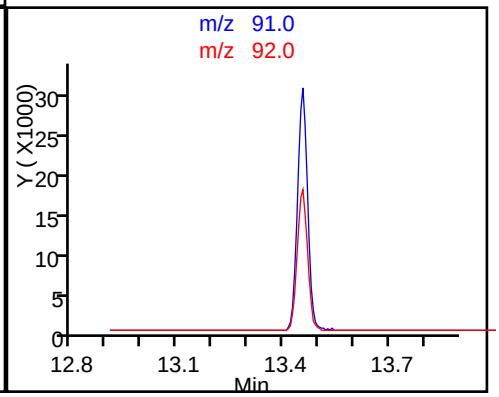












Report Date: 25-Mar-2014 14:36:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS112.D

Injection Date: 18-Mar-2014 02:15:30 Instrument ID: ME

Lims ID: 140-1051-A-4 Lab Sample ID: 140-1051-4

Client ID: PCV-AMB-5

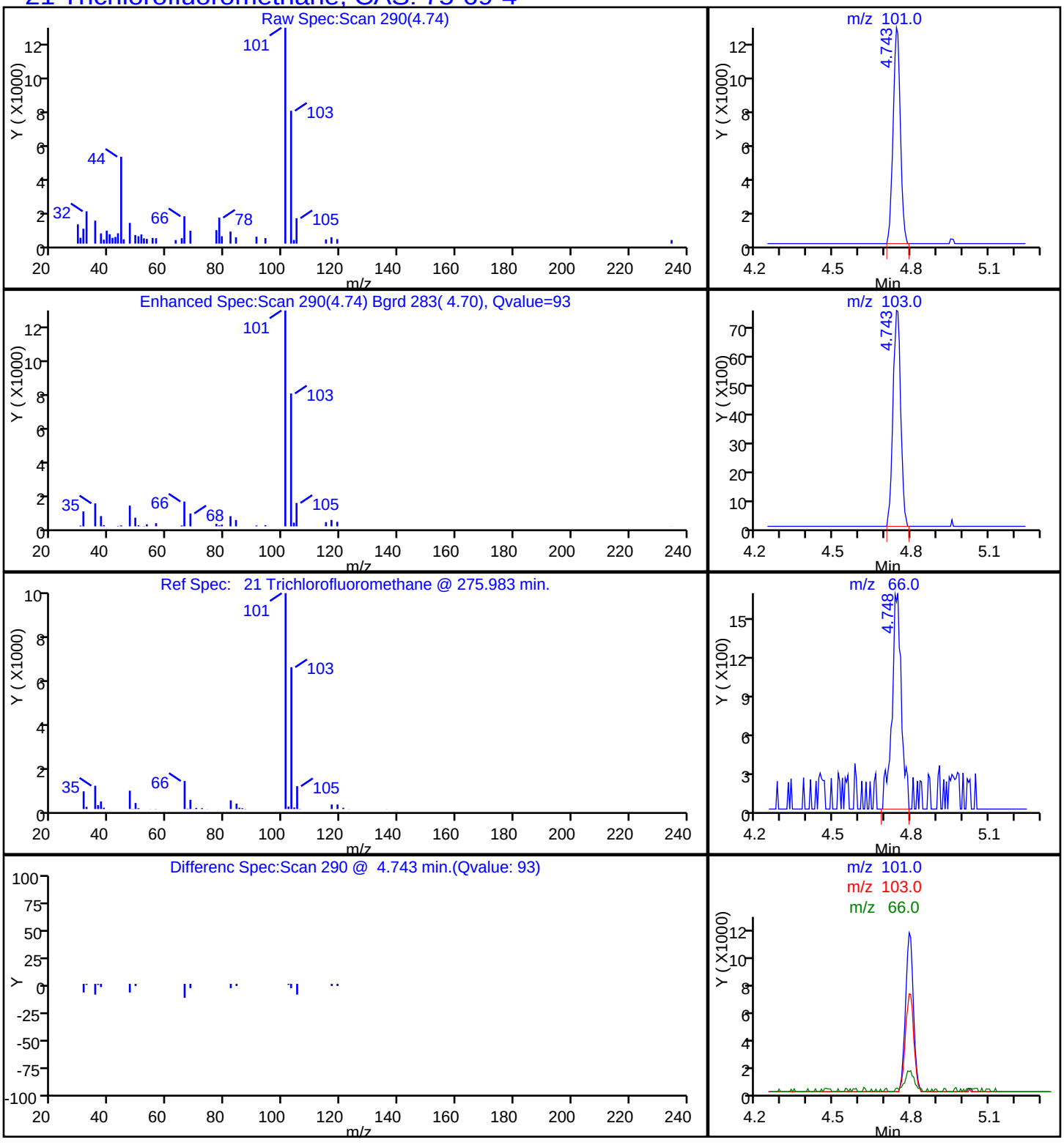
Operator ID: 060487 ALS Bottle#: 12 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.073	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.063	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.085	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.11	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.32	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.28		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.9		0.50	0.045
67-64-1	Acetone	58.08	3.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.32		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.059	J *	0.20	0.032
75-15-0	Carbon disulfide	76.14	0.15	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.66		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.078	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.20	0.068
64-17-5	Ethanol	46.07	16		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.087	J	0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.69		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.1	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	4.3		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.31		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.10	J	0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.10	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.37		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.56	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.31	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.51	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.53	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.94	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	6.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.0		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	12		2.0	0.18
67-64-1	Acetone	58.08	8.5	J	12	3.3
71-43-2	Benzene	78.11	1.0		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.23	J *	0.78	0.12
75-15-0	Carbon disulfide	76.14	0.46	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.4		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.27	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.99	0.34
64-17-5	Ethanol	46.07	29		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.38	J	0.87	0.30
142-82-5	Heptane	100.21	0.43	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	2.4		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	15		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.45	J	0.87	0.26
115-07-1	Propene	42.08	2.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.69	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	2.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: PCV-AMB-6 Lab Sample ID: 140-1051-5

Matrix: Air Lab File ID: EC17POS113.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:02

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D
Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5
Client ID: PCV-AMB-6
Sample Type: Client
Inject. Date: 18-Mar-2014 03:01:30 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1051-a-5
Misc. Info.: E031714,TO155,,140-0000525-018
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:57 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:30:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	217593	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1109843	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	977934	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	883474	4.13	
7 Propene	41	3.319	3.309	0.010	77	27887	0.5095	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	100	50737	0.2108	
9 Chloromethane	52	3.535	3.530	0.005	95	5083	0.2646	
15 Bromomethane	94	4.091	4.080	0.010	1	1887	0.0236	
17 Ethanol	31	4.312	4.317	-0.005	99	135436	6.22	
19 2-Methylbutane	43	4.538	4.538	0.0	87	64171	0.8421	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	94	35710	0.1479	
23 Acetone	58	4.878	4.878	0.0	93	47074	1.43	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	96	35991	0.4242	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	67	4394	0.0294	
31 Methylene Chloride	84	5.784	5.789	-0.005	85	106180	1.71	
33 Carbon disulfide	76	5.940	5.940	0.0	88	13401	0.0595	
35 2-Methylpentane	43	6.603	6.603	0.0	83	16300	0.1138	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	75	4549	0.1277	
40 Hexane	56	7.579	7.585	-0.006	84	16042	0.2772	
49 Cyclohexane	69	9.974	9.984	-0.010	40	1311	0.0313	
48 Benzene	78	9.990	9.995	-0.005	95	28333	0.1268	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	77	5770	0.0269	
53 Isooctane	57	10.788	10.783	0.006	88	15649	0.0454	
54 n-Heptane	71	11.181	11.182	-0.001	64	3585	0.0424	
62 4-Methyl-2-pentanone (MIBK)	43	12.513	12.519	-0.006	95	153798	1.17	
65 Toluene	91	13.398	13.403	-0.005	93	113737	0.4341	
73 Tetrachloroethene	129	14.552	14.552	0.0	79	4557	0.0408	
76 Ethylbenzene	91	15.722	15.727	-0.005	80	11671	0.0348	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	97	33258	0.1259	
82 o-Xylene	91	16.412	16.412	0.0	77	11809	0.0414	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	73	7589	0.0253	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
97 1,4-Dichlorobenzene	146	18.591	18.596	-0.005	76	6515	0.0339	

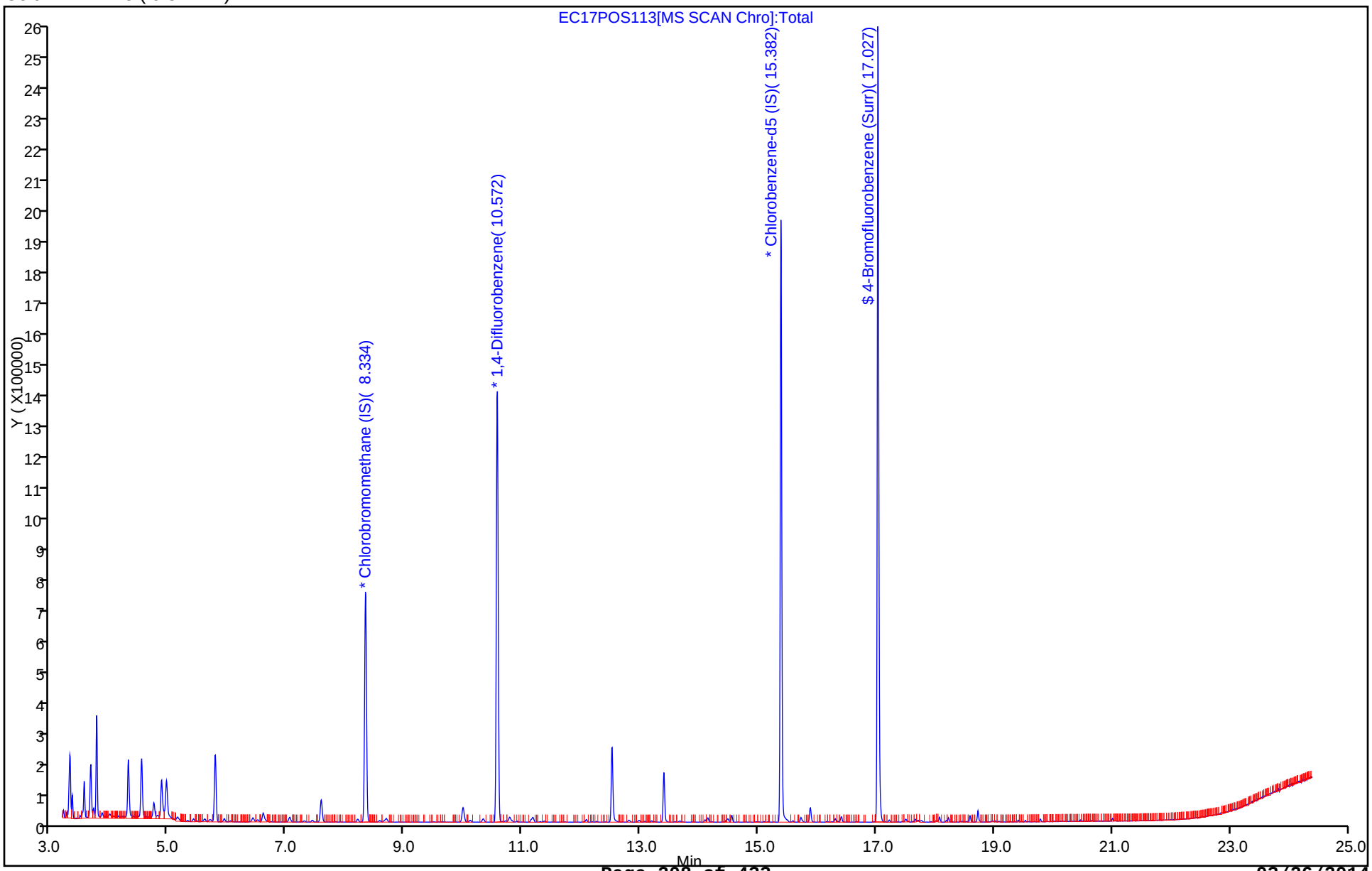
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

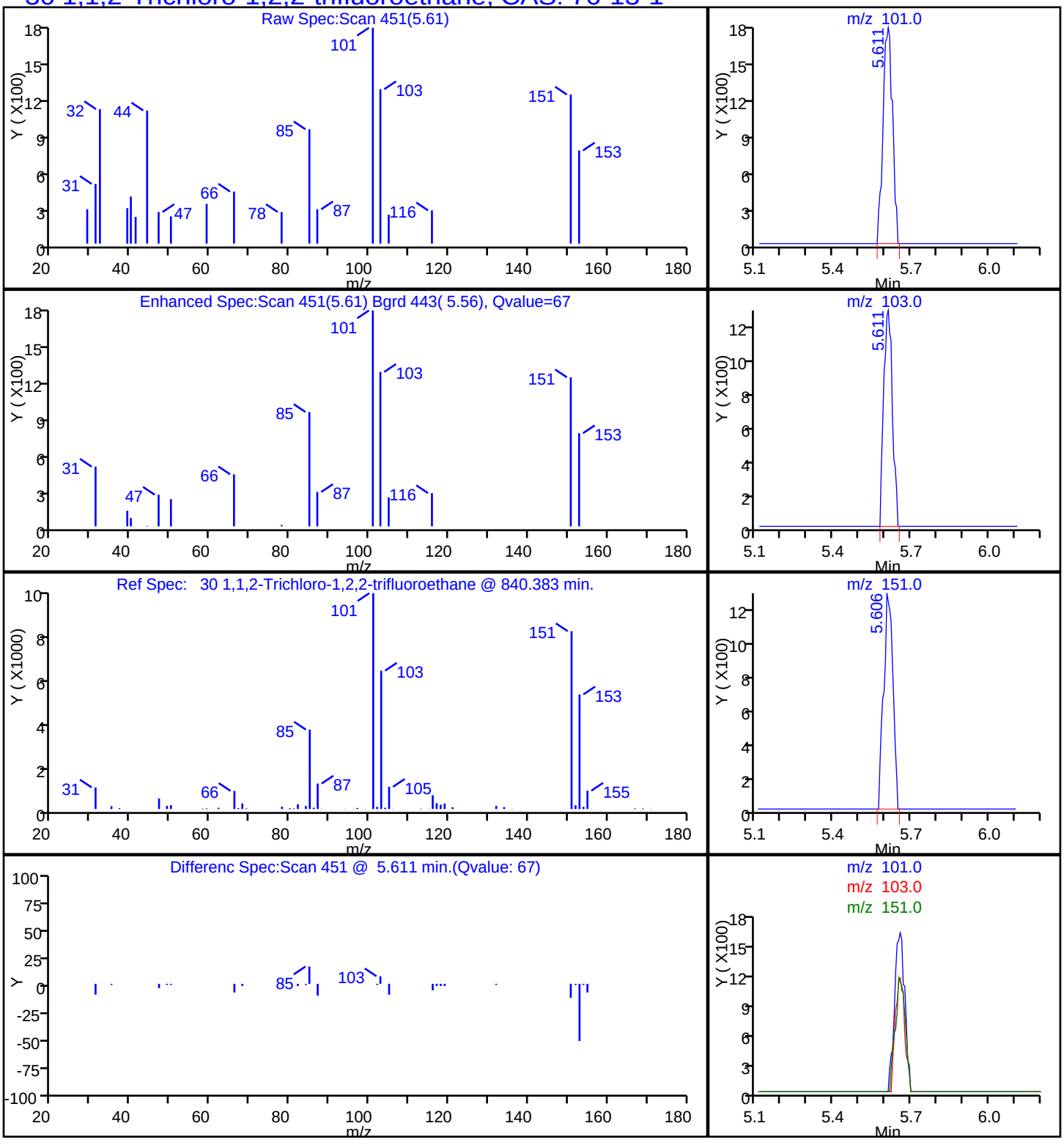
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5	Worklist Smp#:	18
Client ID:	PCV-AMB-6				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D
Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME
Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5
Client ID: PCV-AMB-6
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

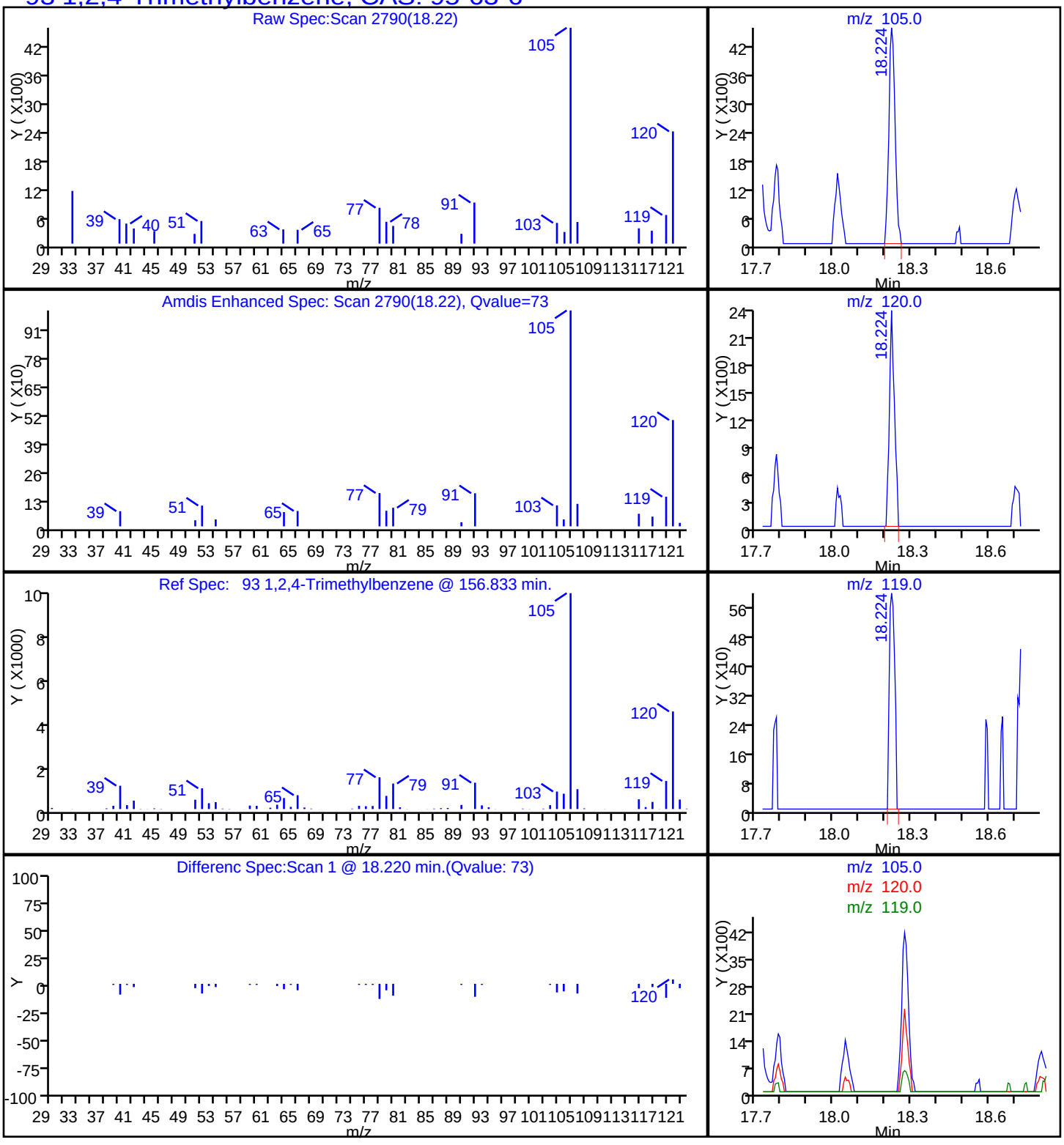


Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

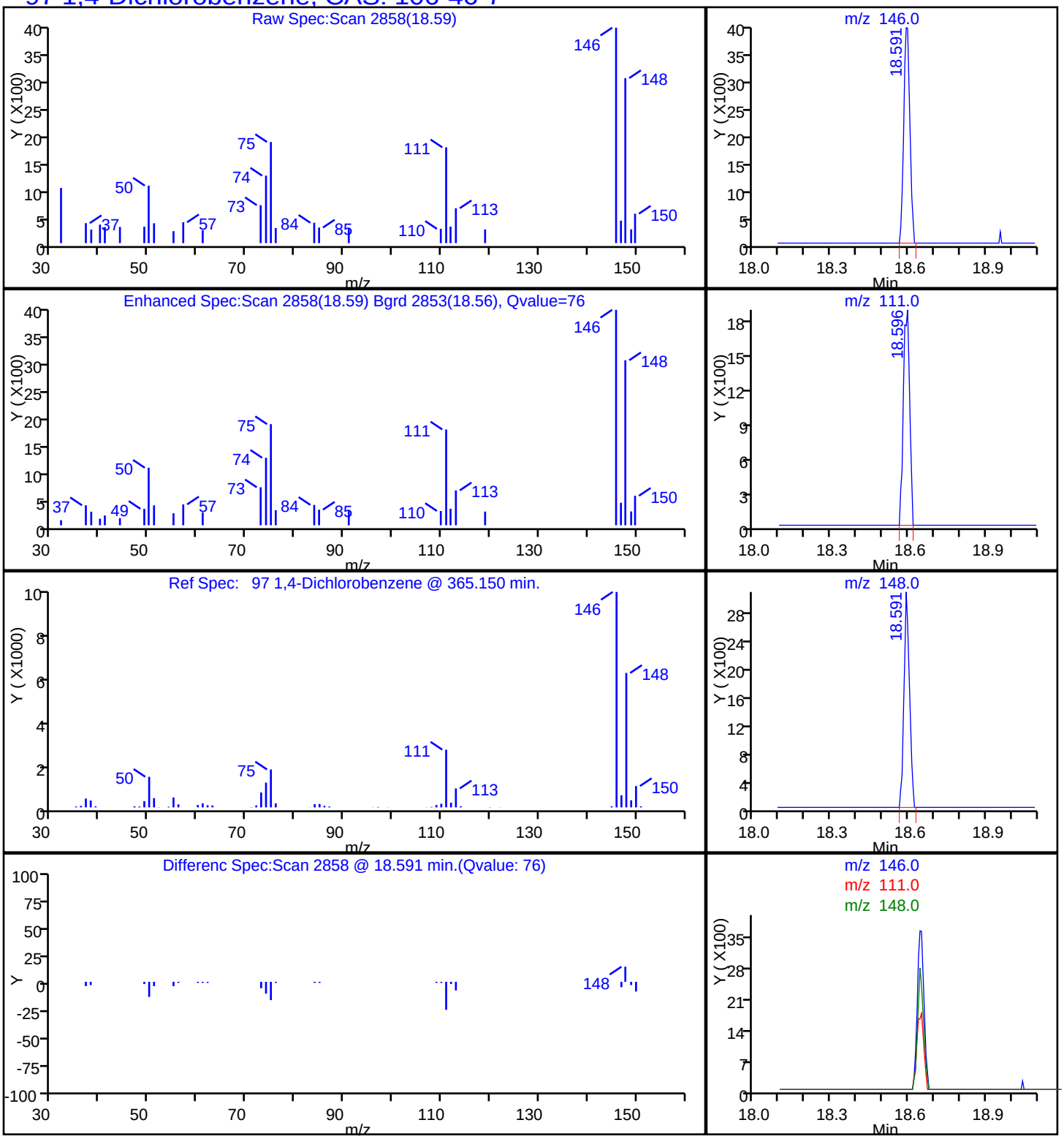
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D
Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME
Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5
Client ID: PCV-AMB-6
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

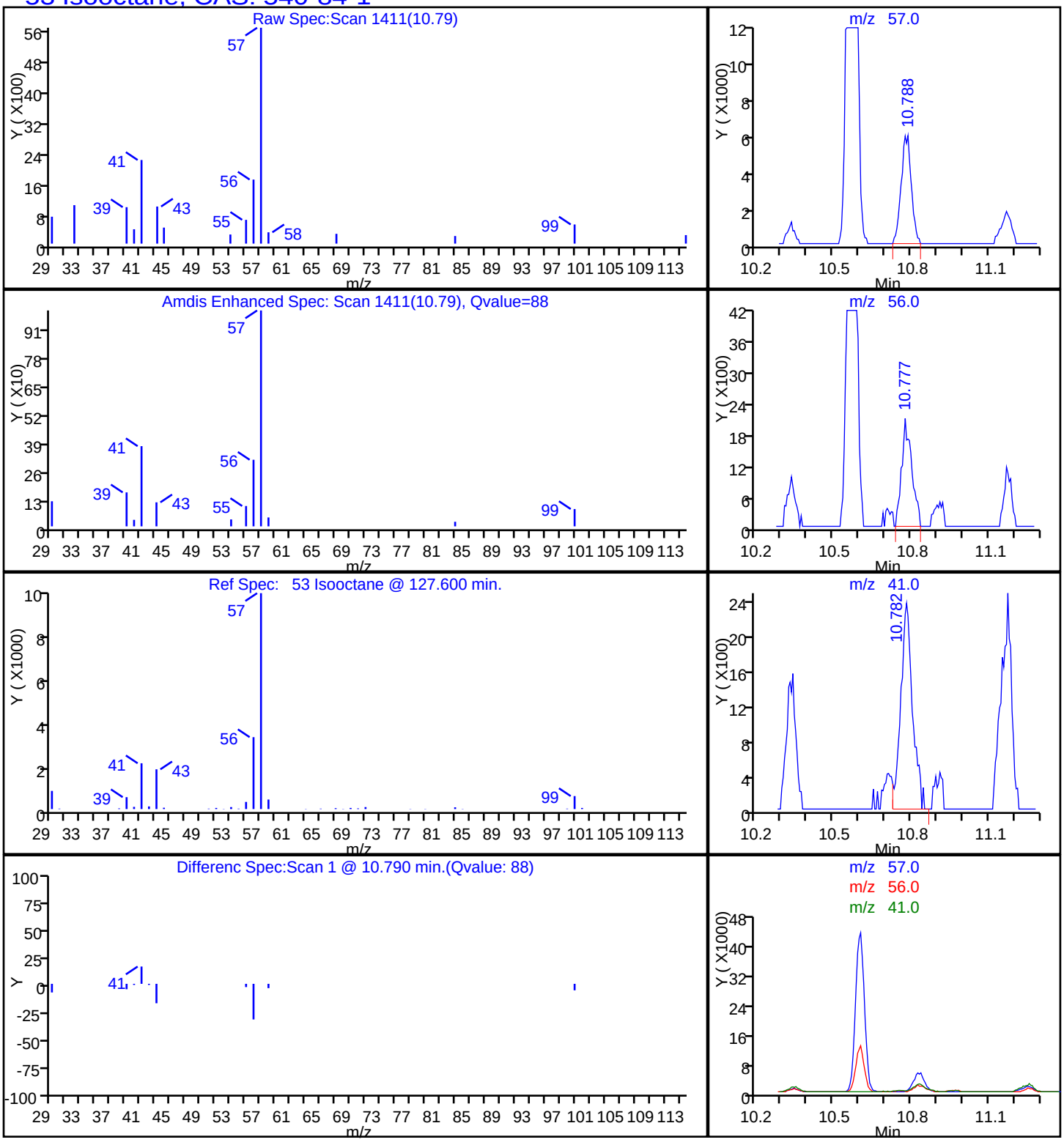


Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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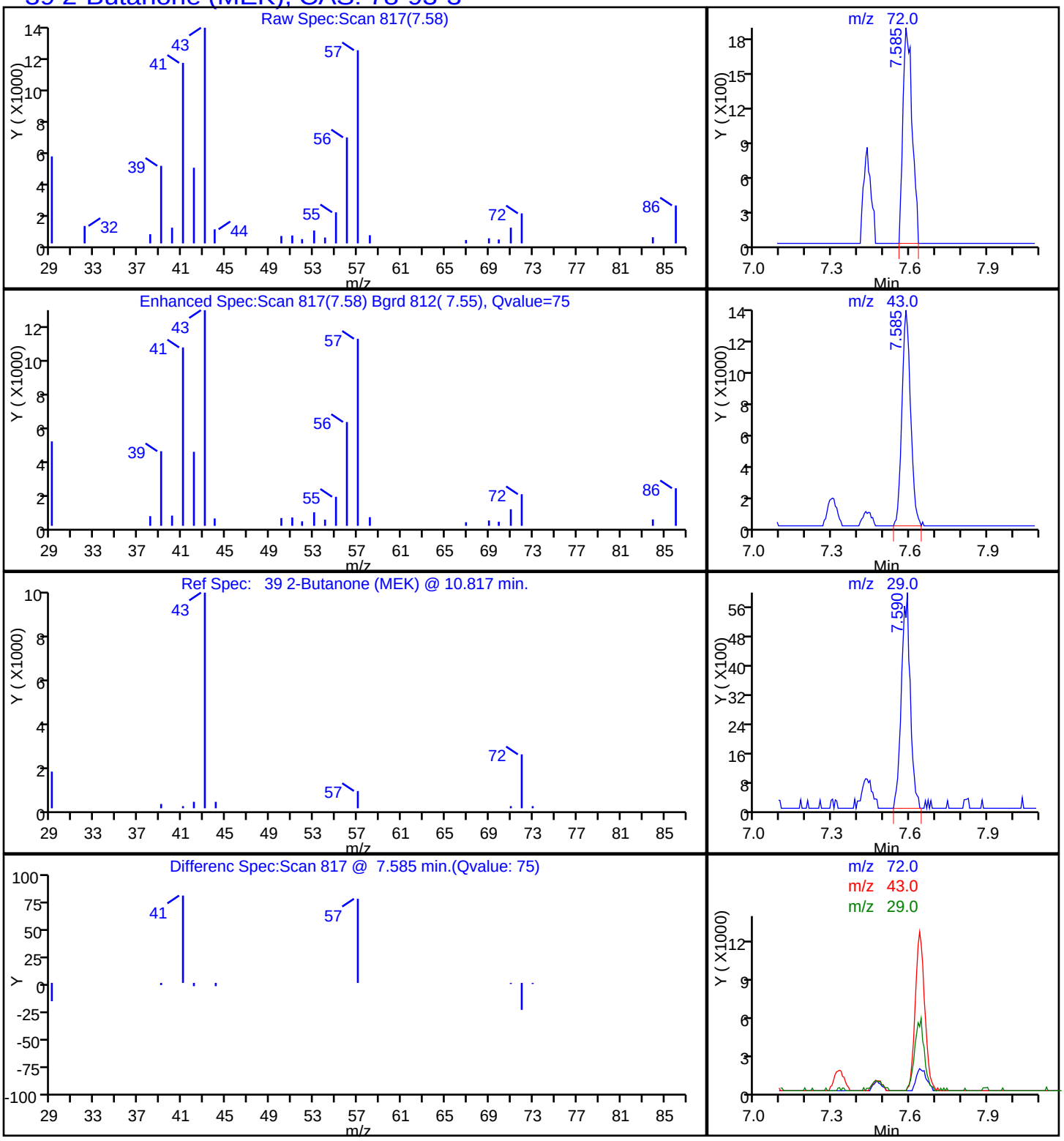
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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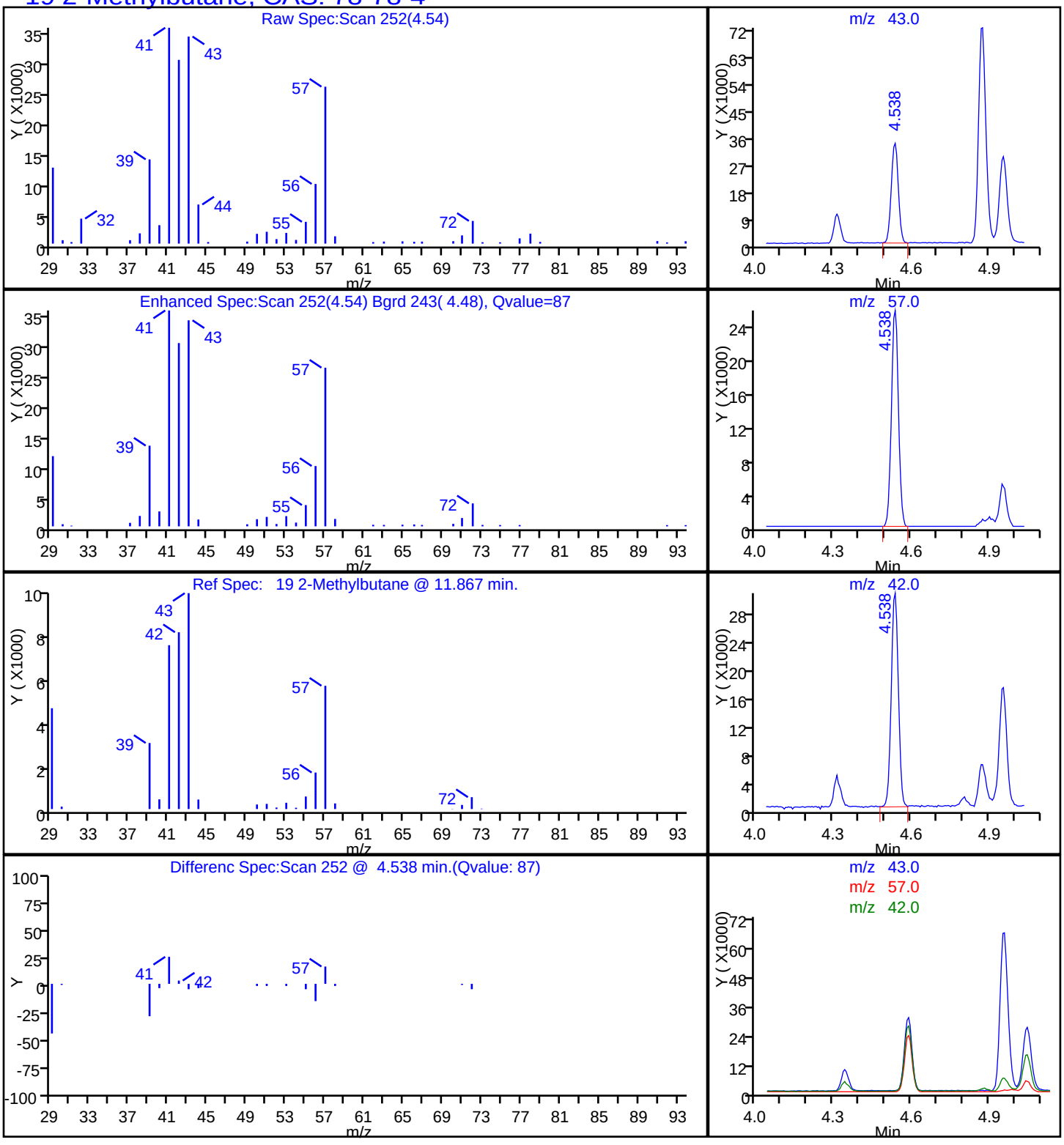
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



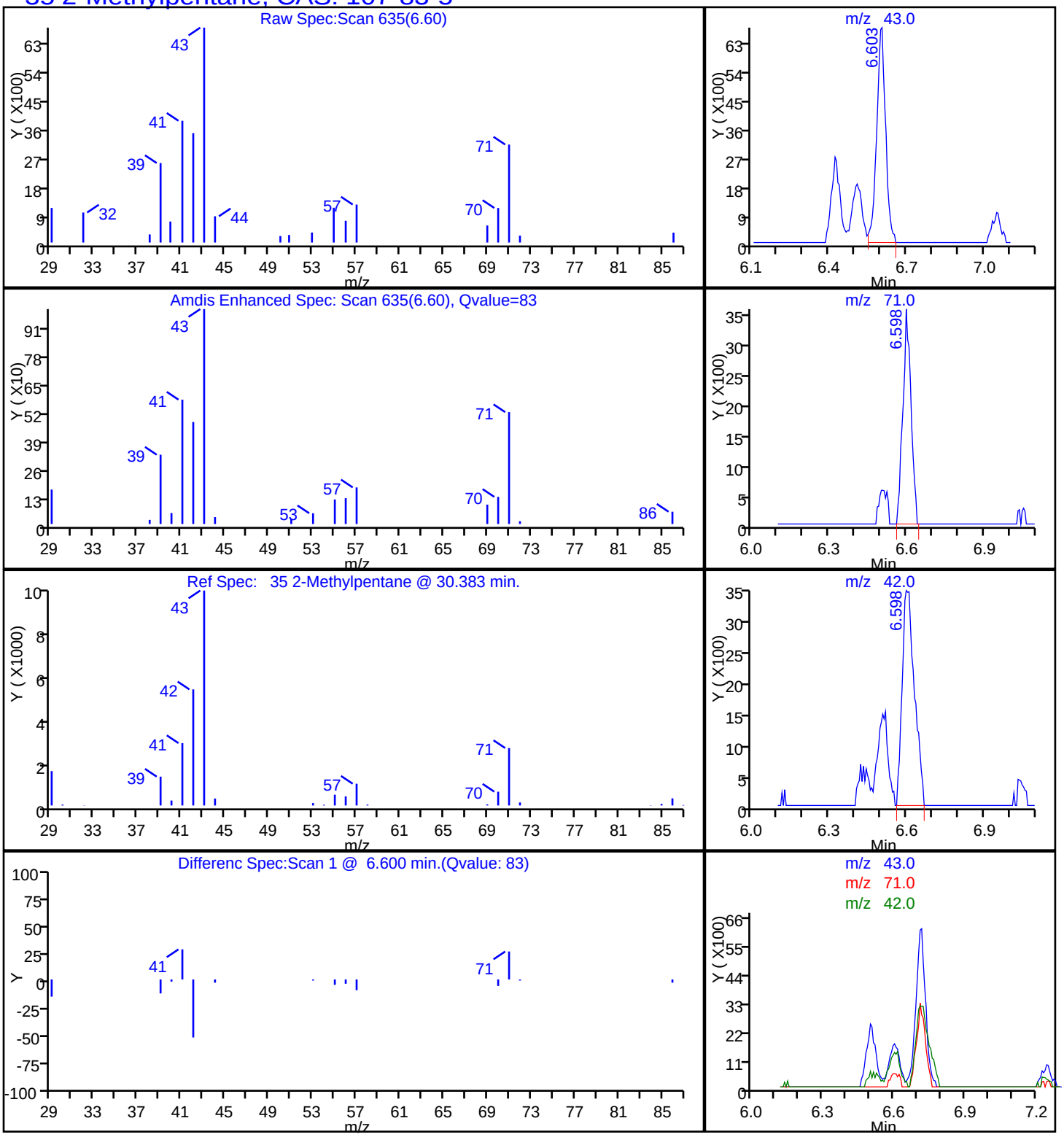
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



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TestAmerica Knoxville

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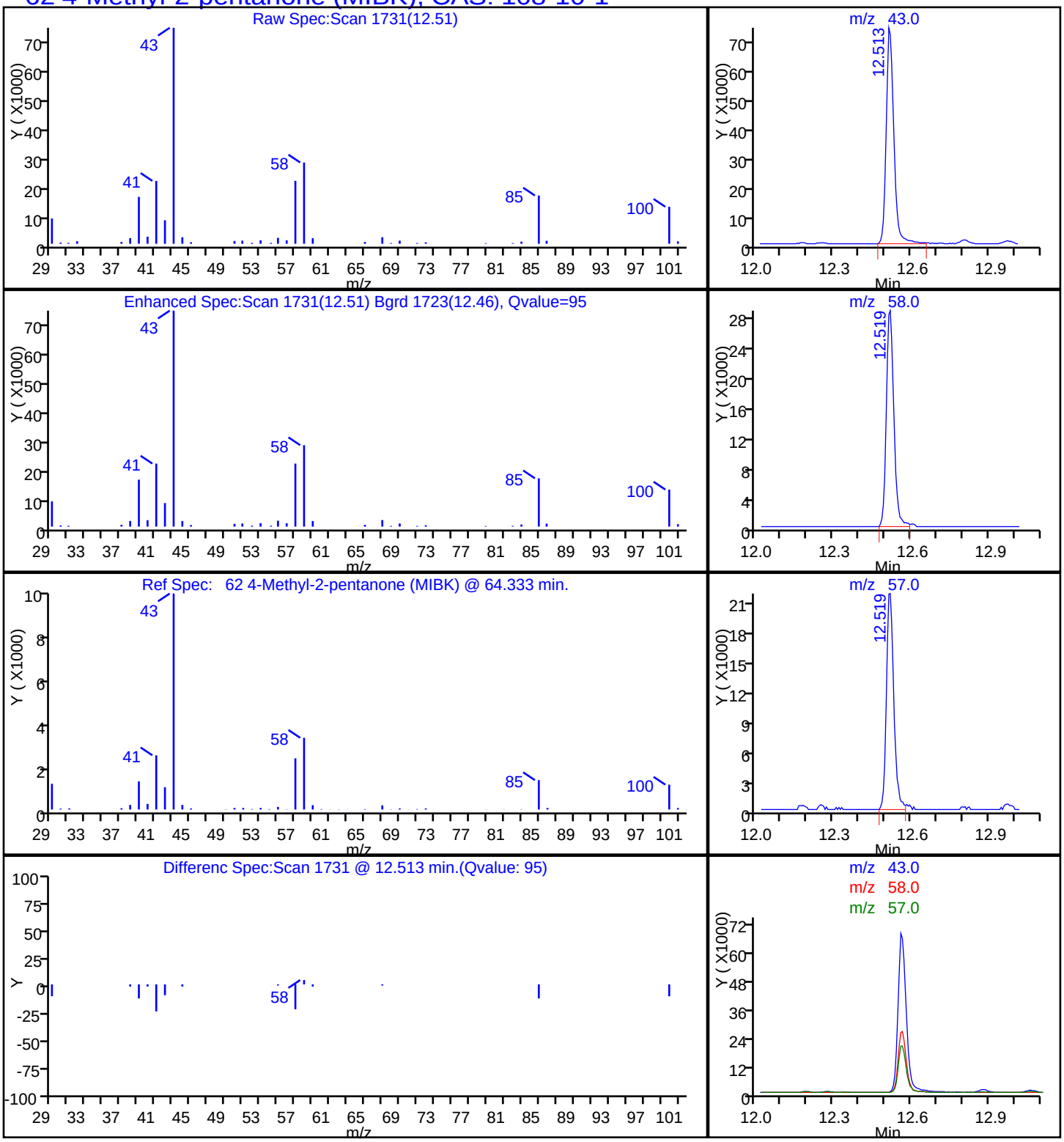
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



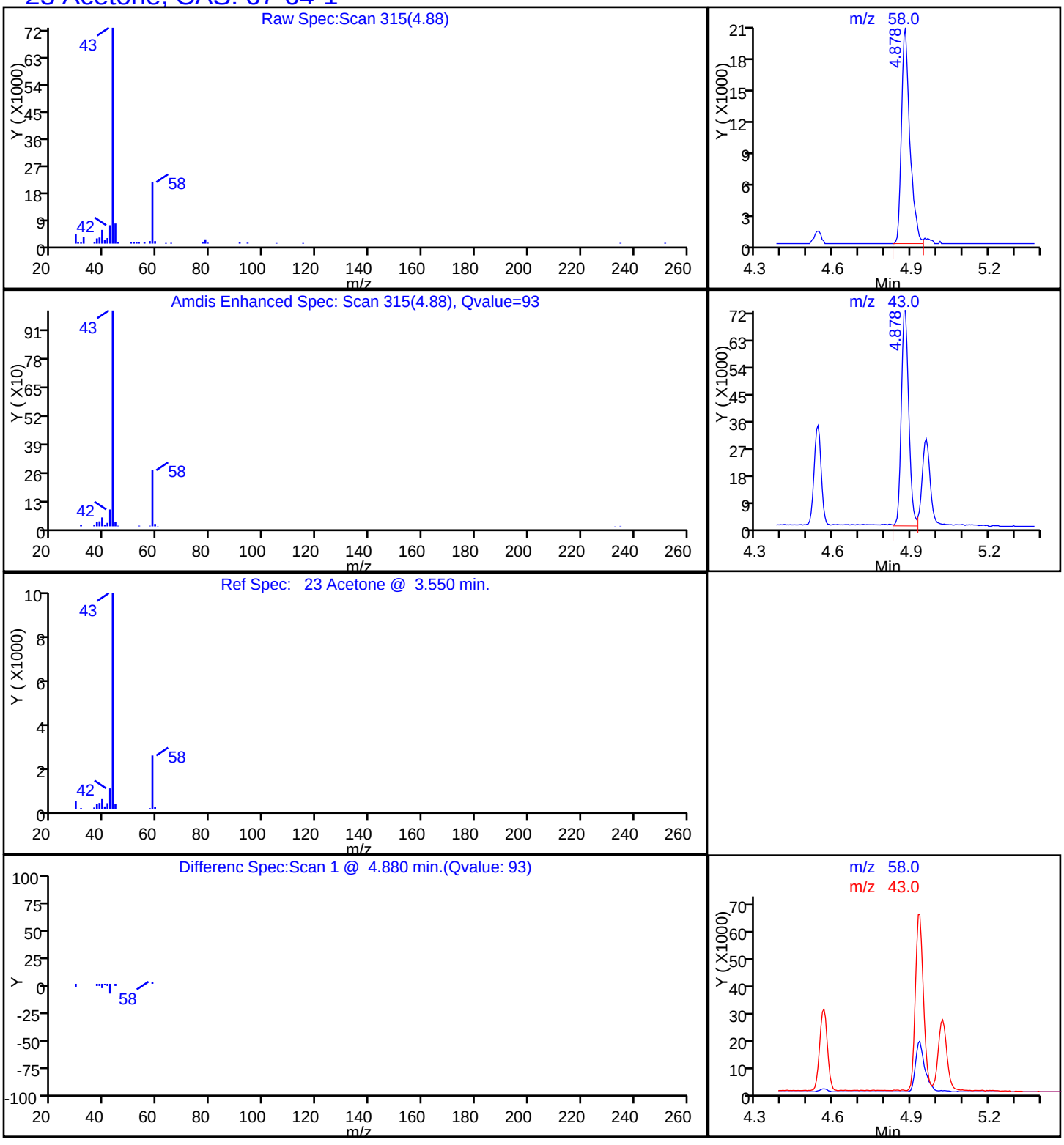
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5
Client ID:	PCV-AMB-6		
Operator ID:	060487	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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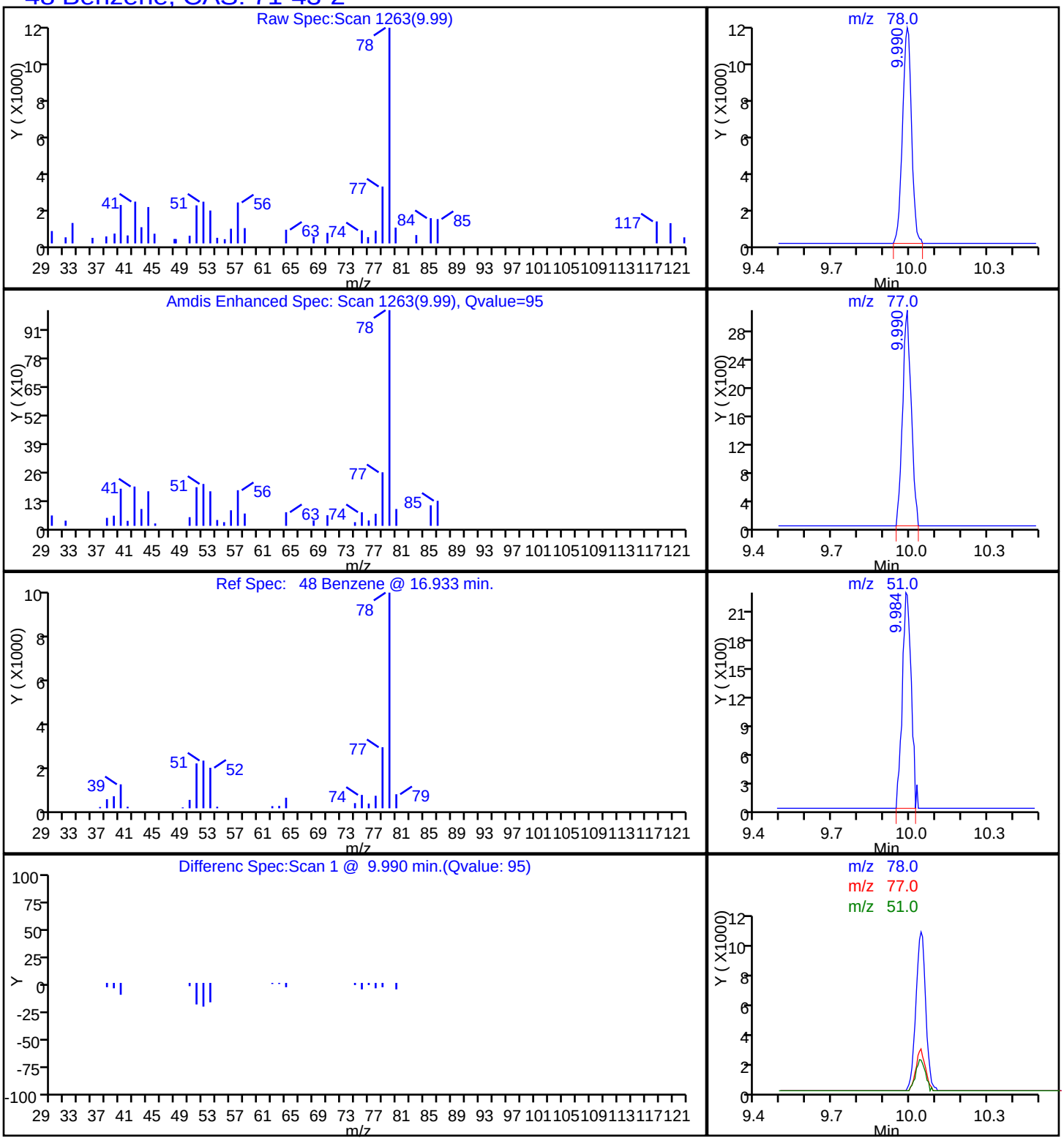
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5
Client ID:	PCV-AMB-6		
Operator ID:	060487	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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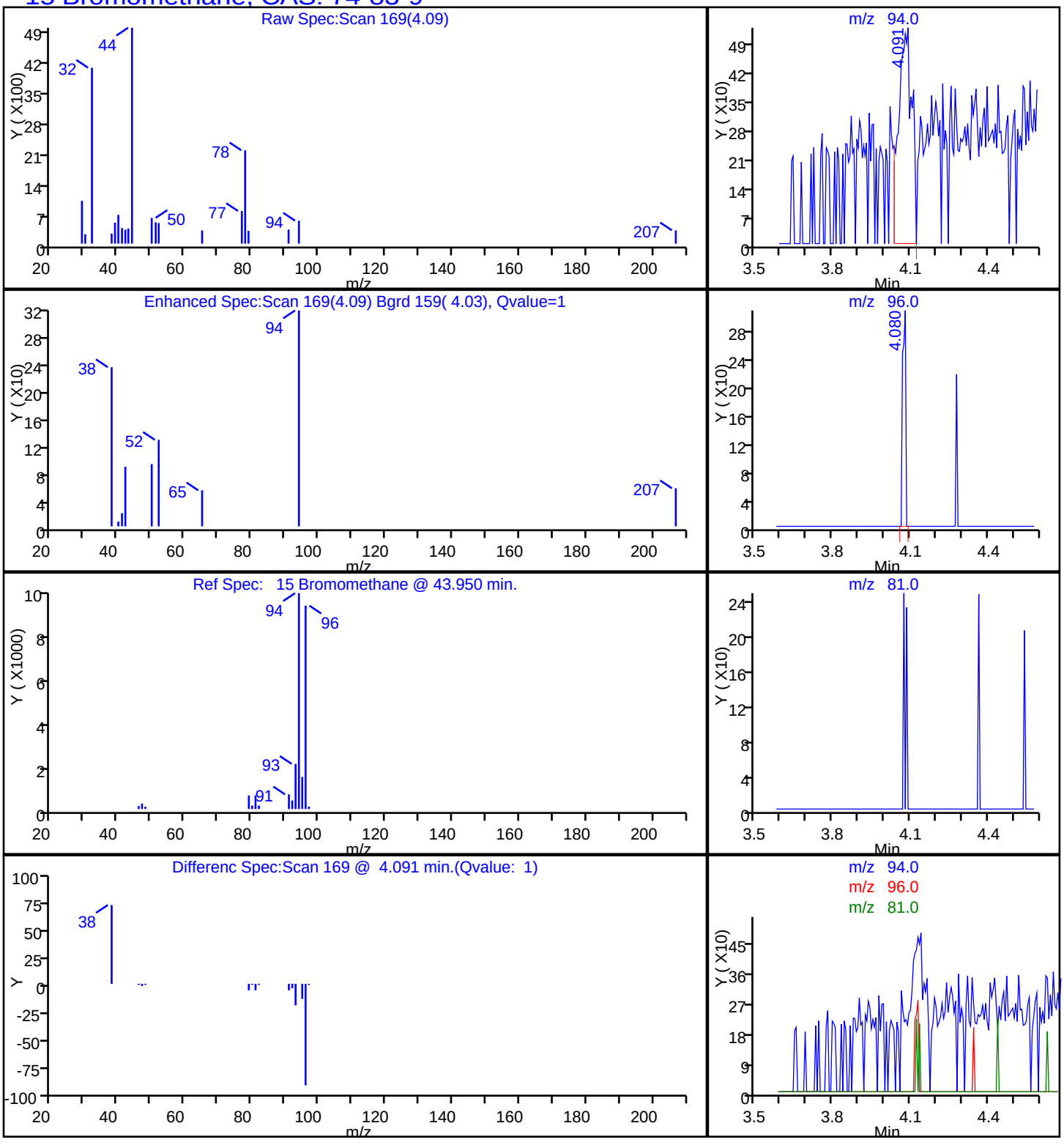
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5
Client ID:	PCV-AMB-6		
Operator ID:	060487	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



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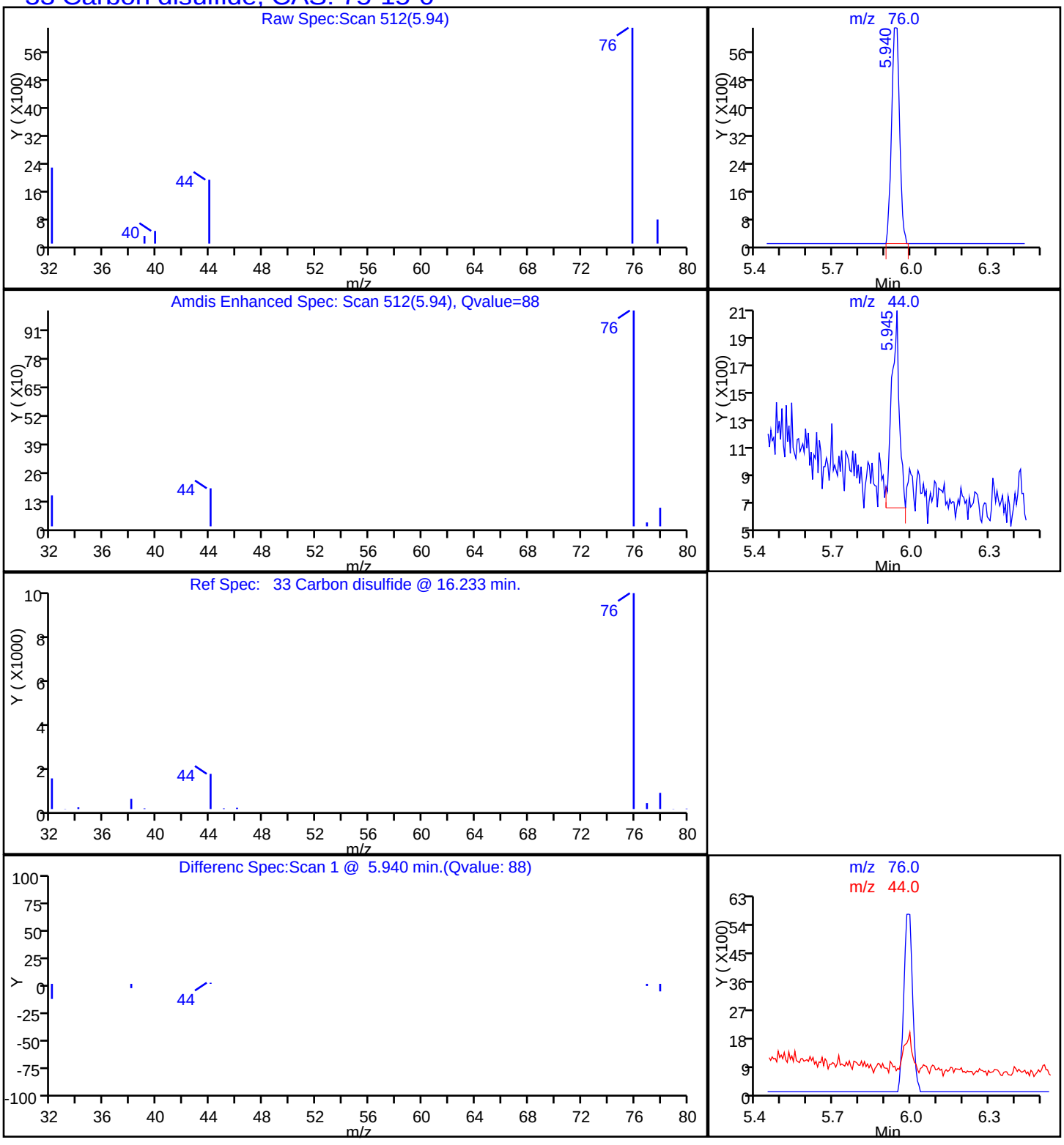
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

33 Carbon disulfide, CAS: 75-15-0



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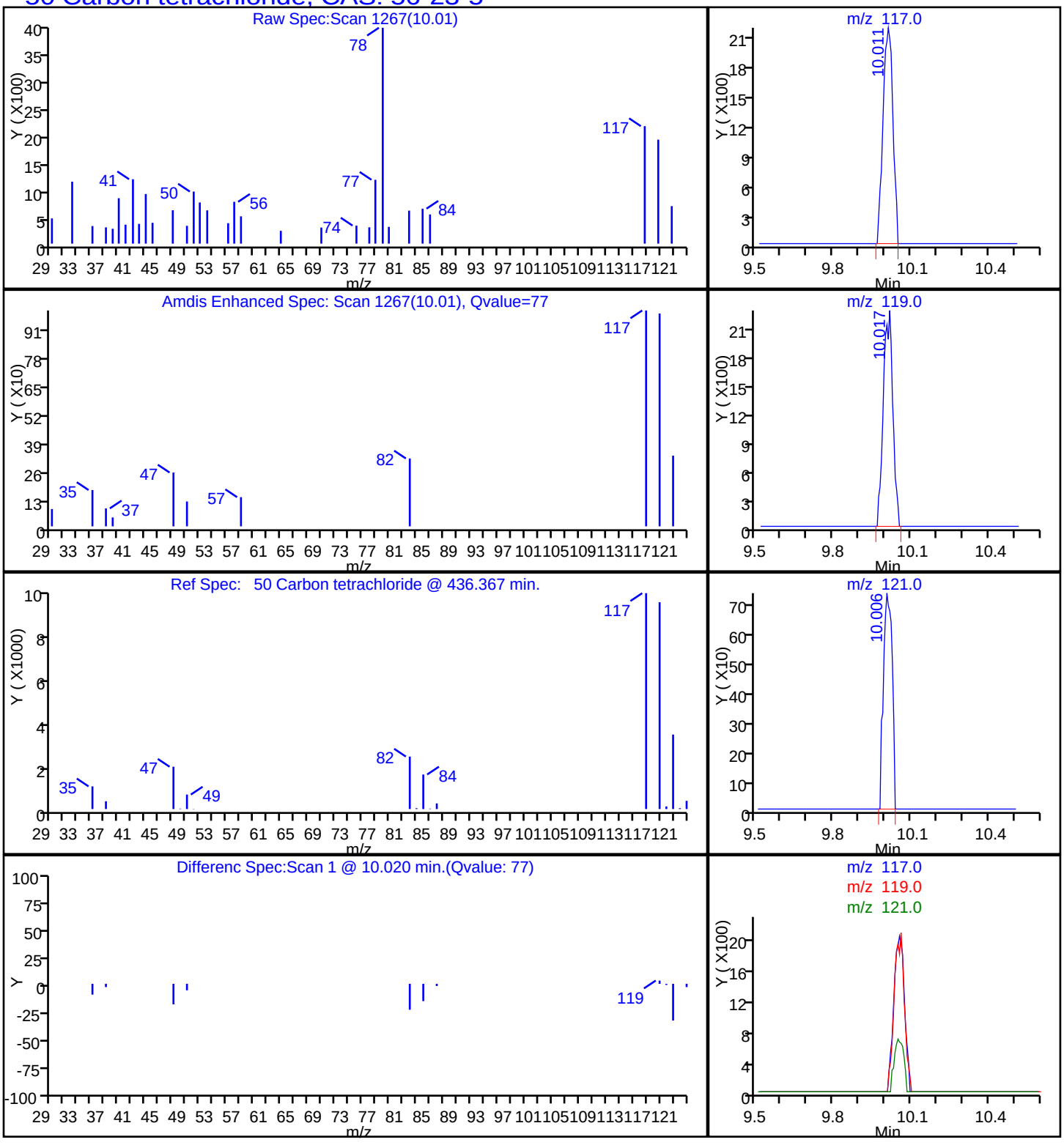
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME

Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5

Client ID: PCV-AMB-6

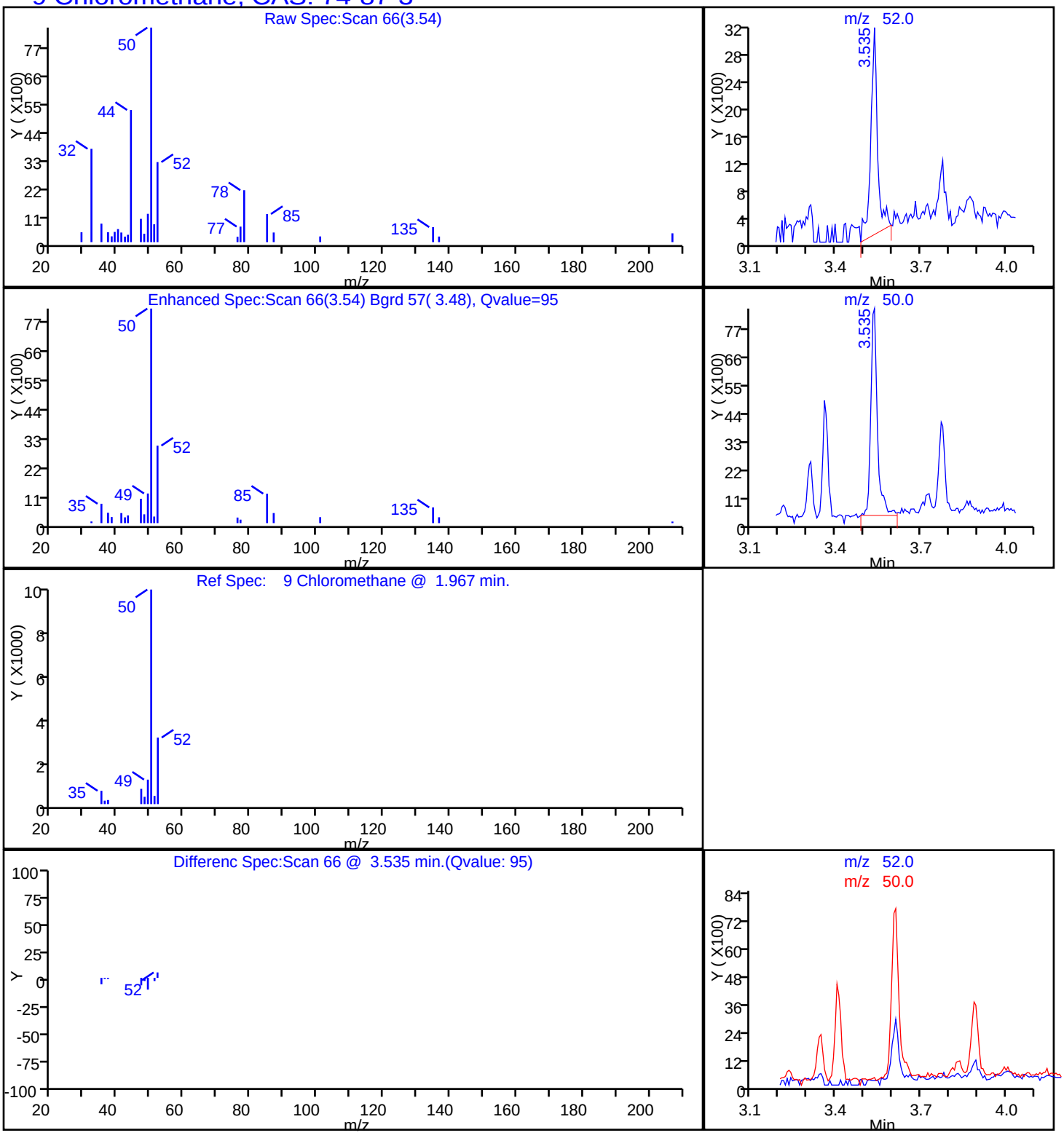
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME

Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5

Client ID: PCV-AMB-6

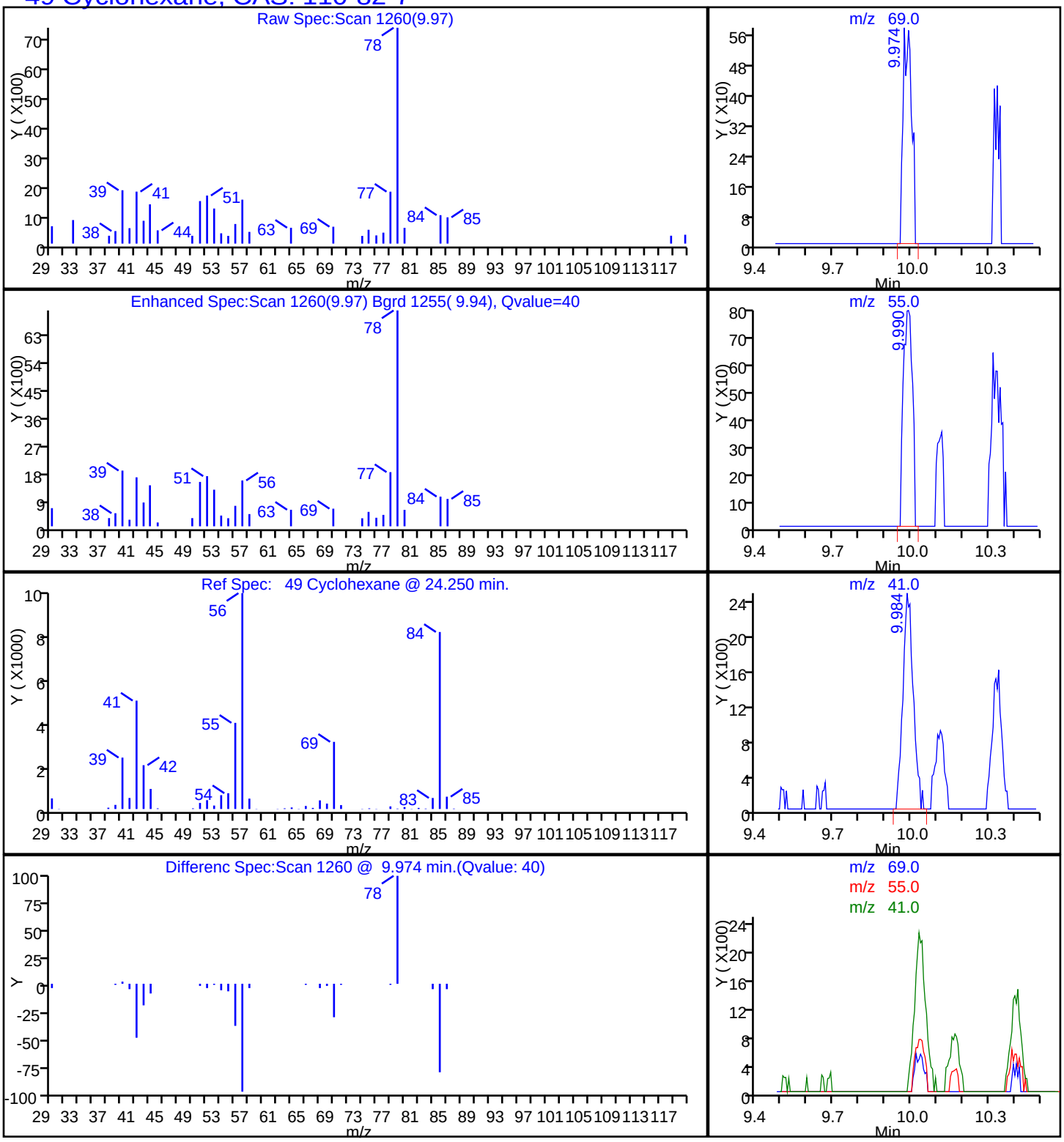
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME

Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5

Client ID: PCV-AMB-6

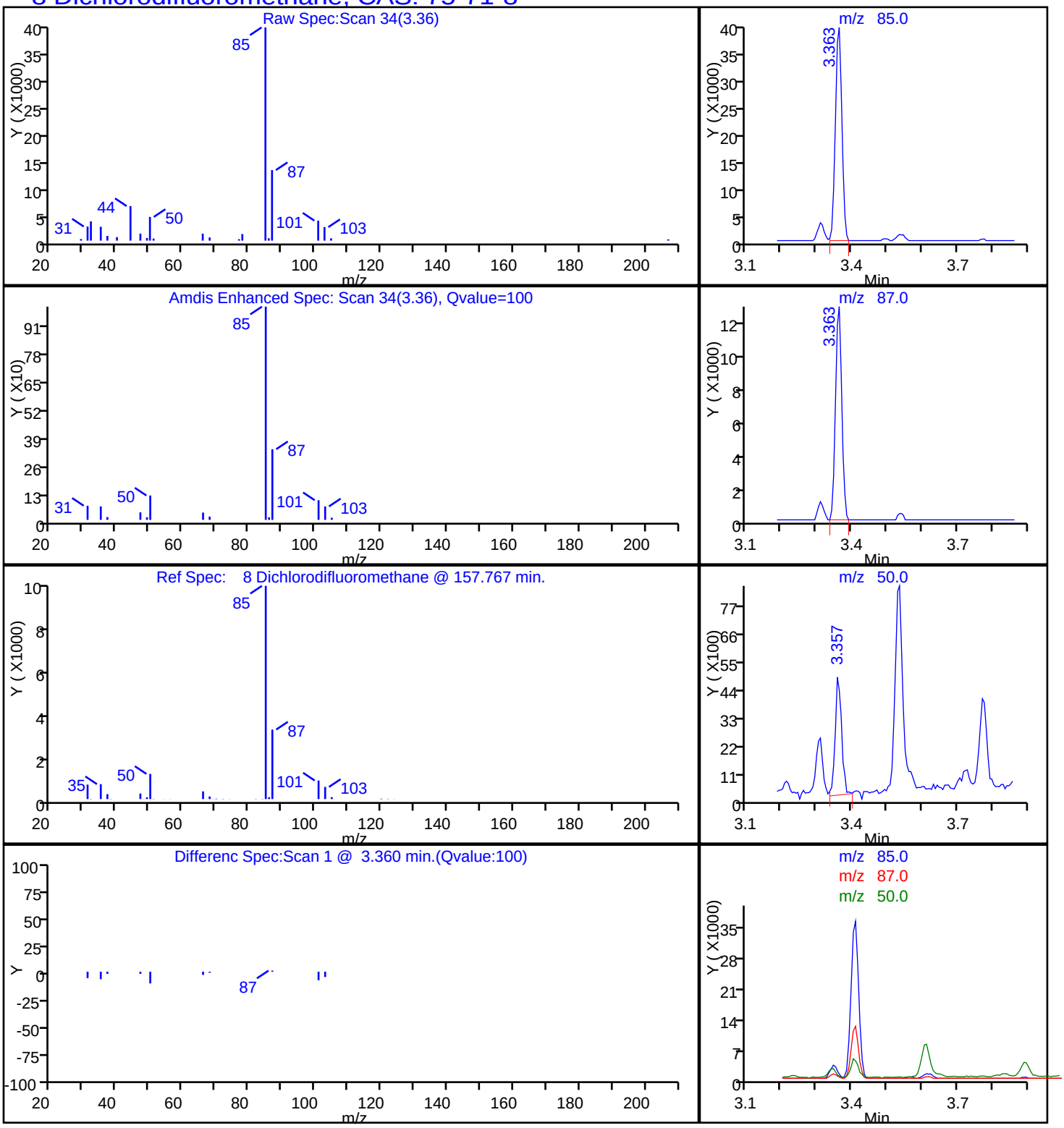
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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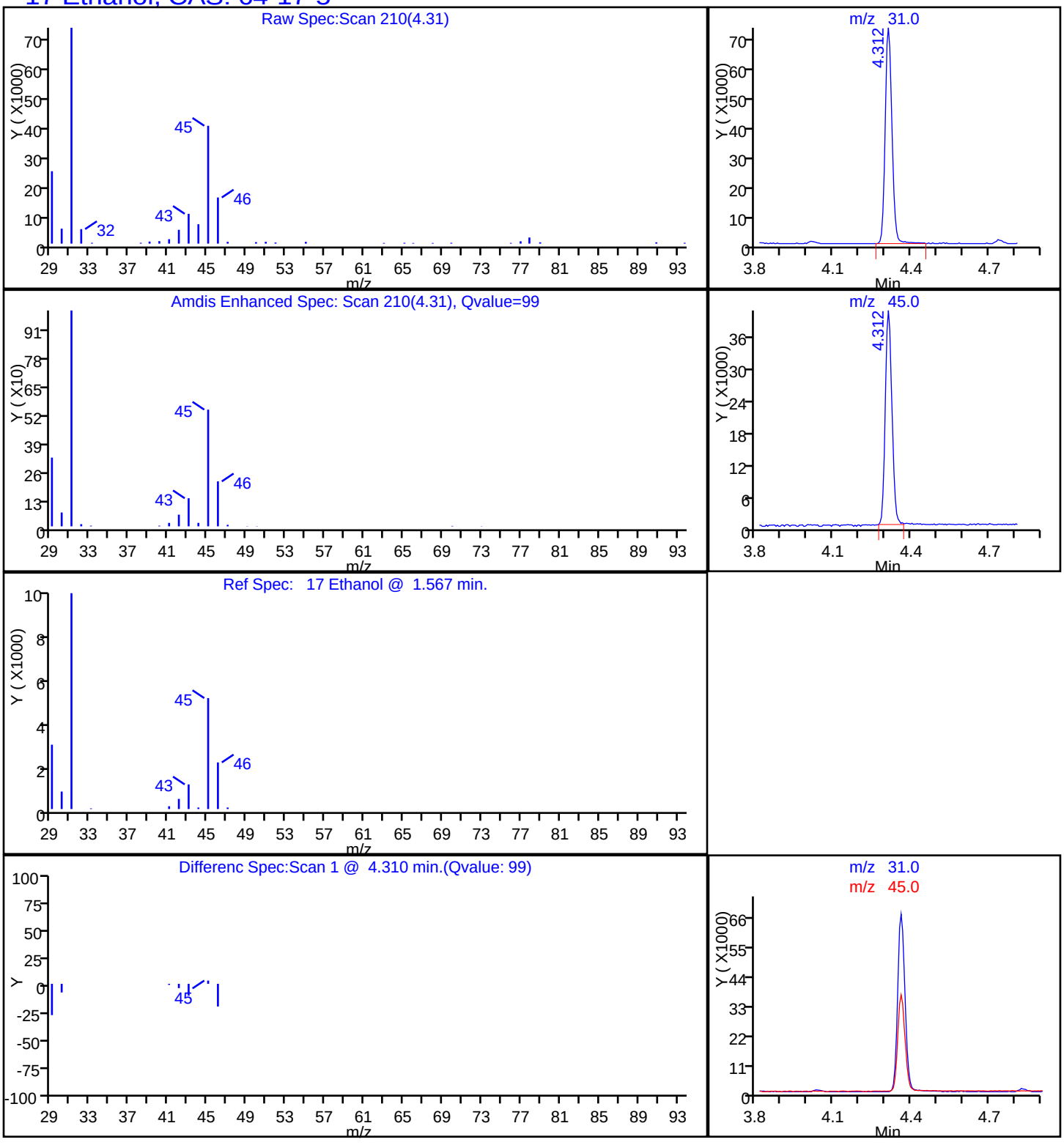
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5
Client ID:	PCV-AMB-6		
Operator ID:	060487	ALS Bottle#:	13 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
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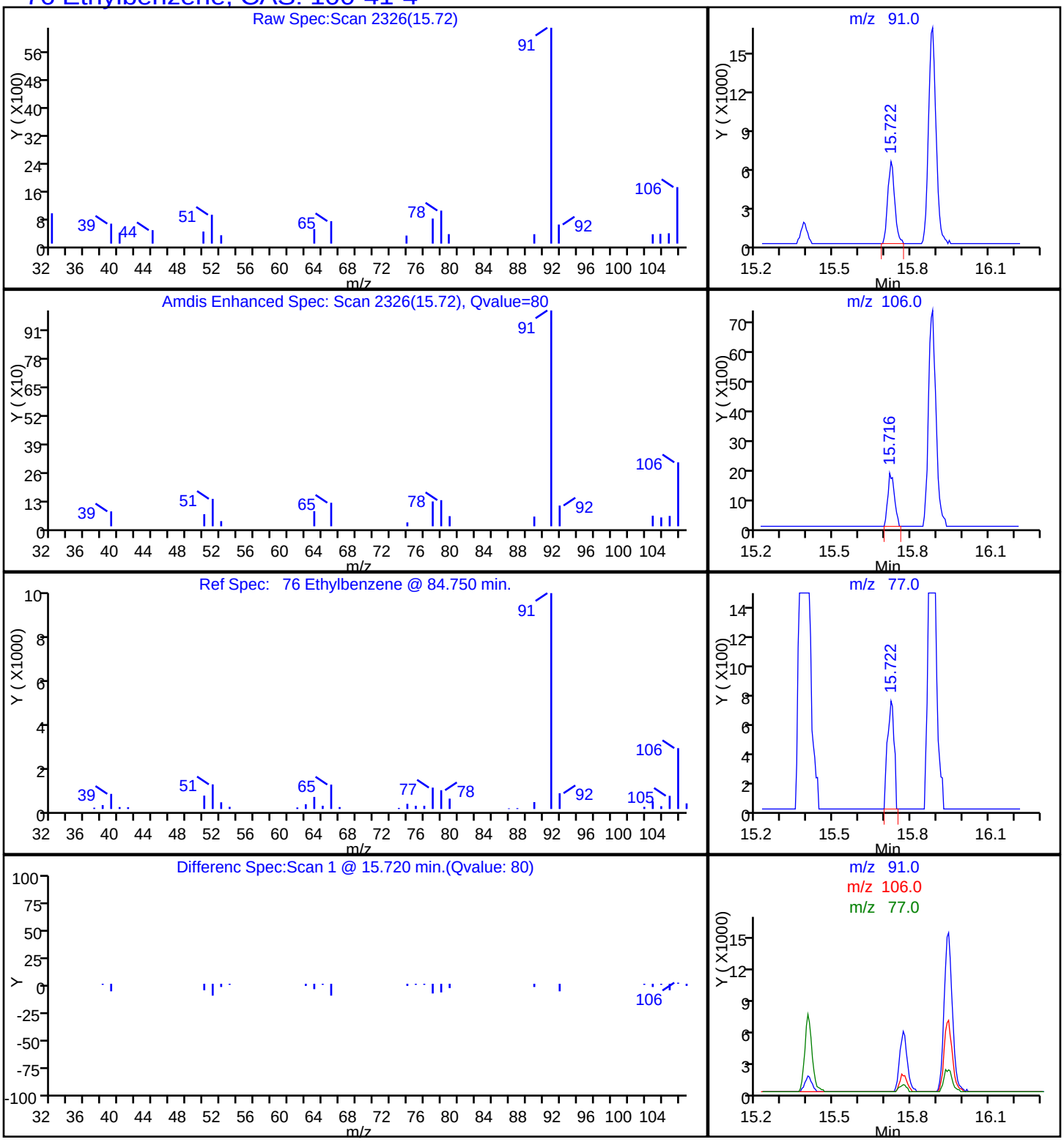
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
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Client ID:	PCV-AMB-6				
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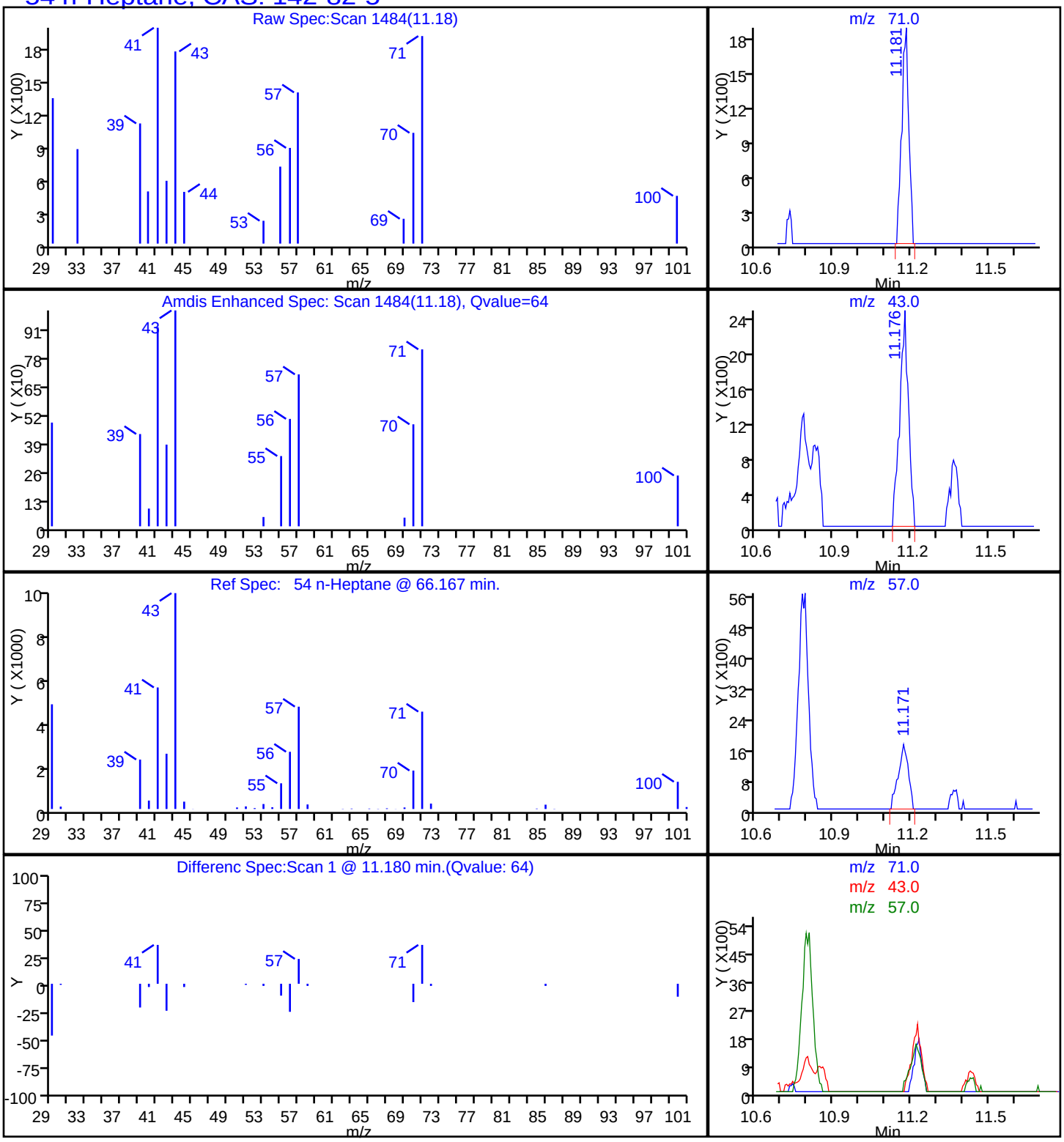
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



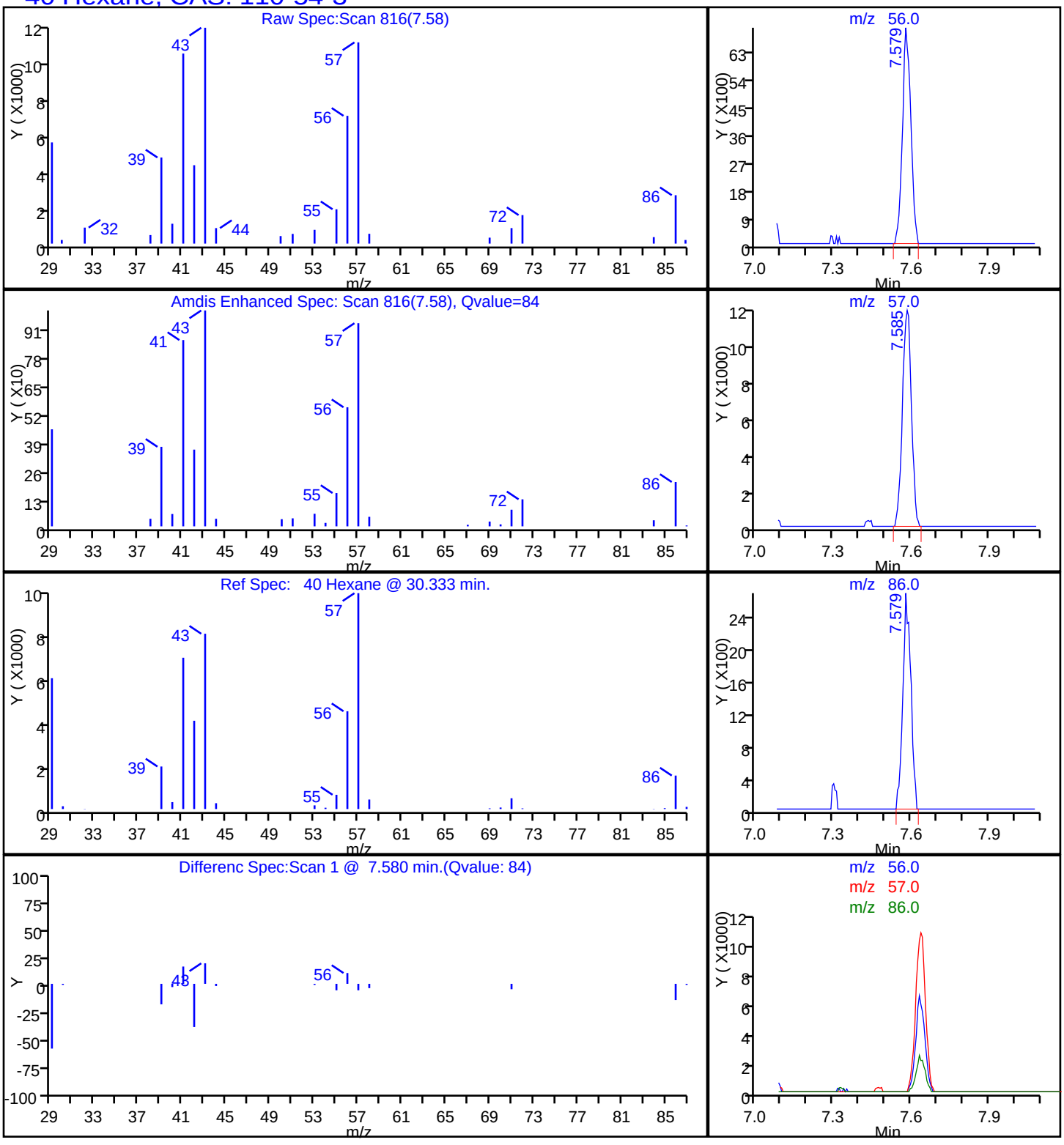
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



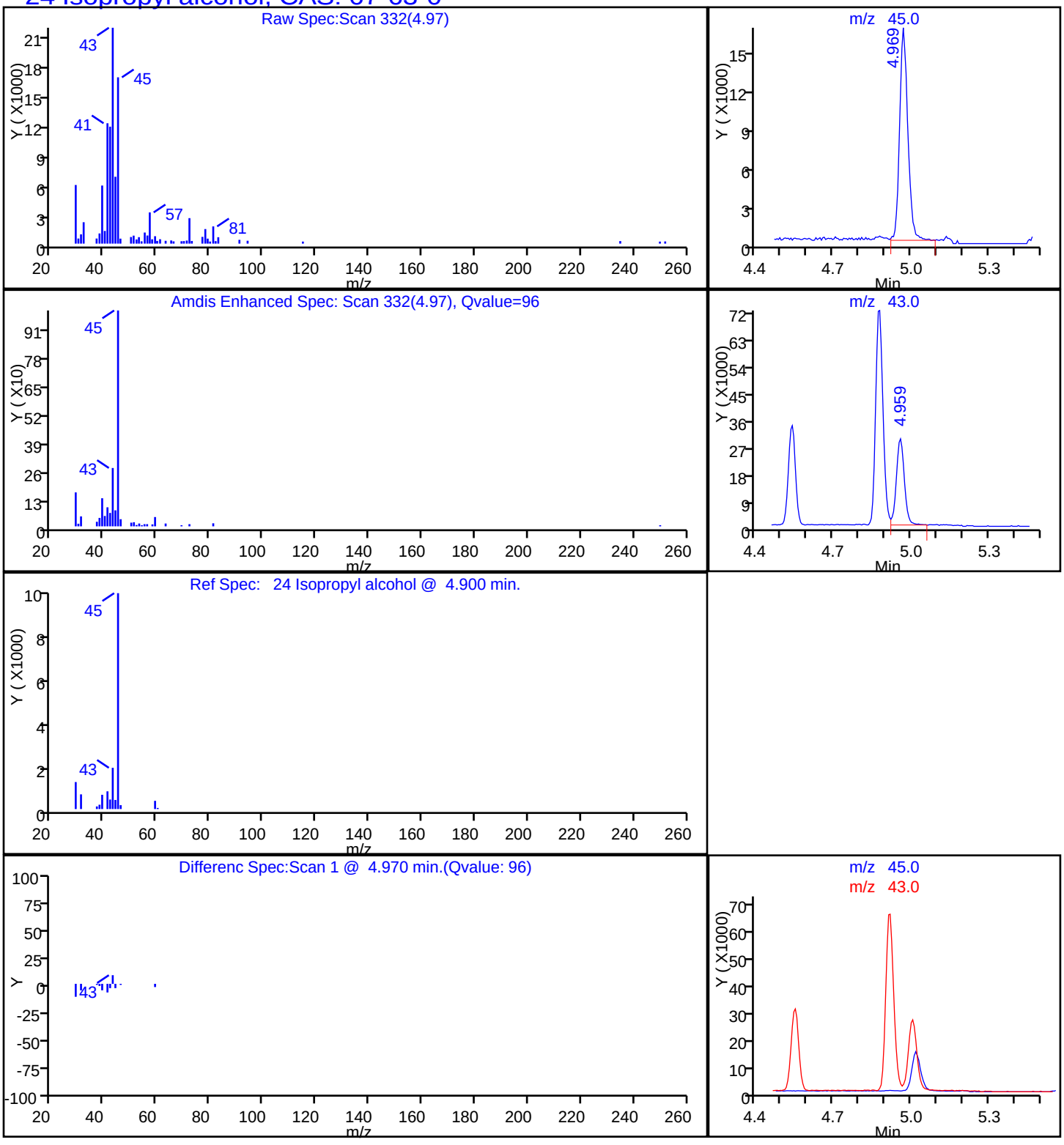
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

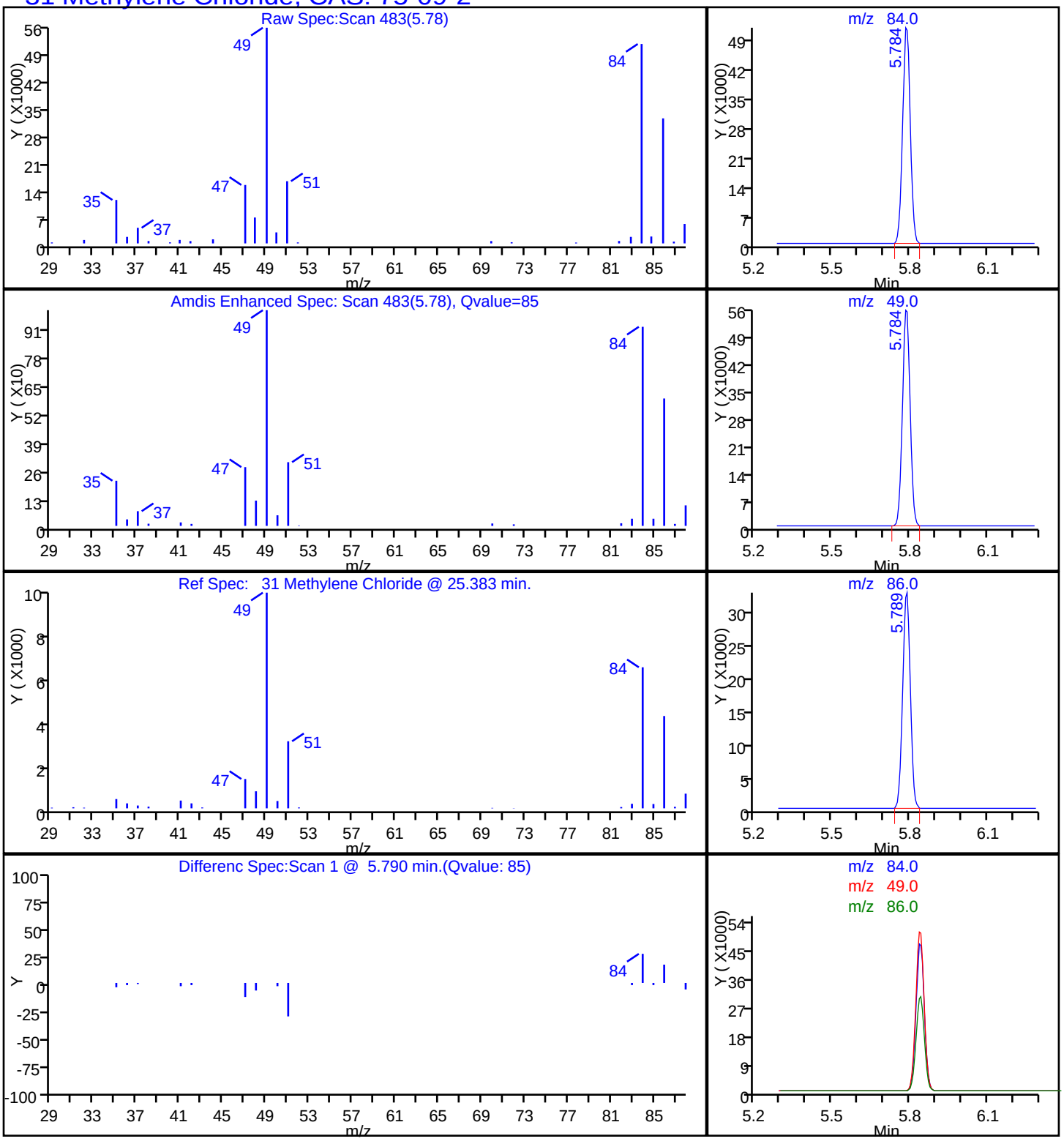


Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

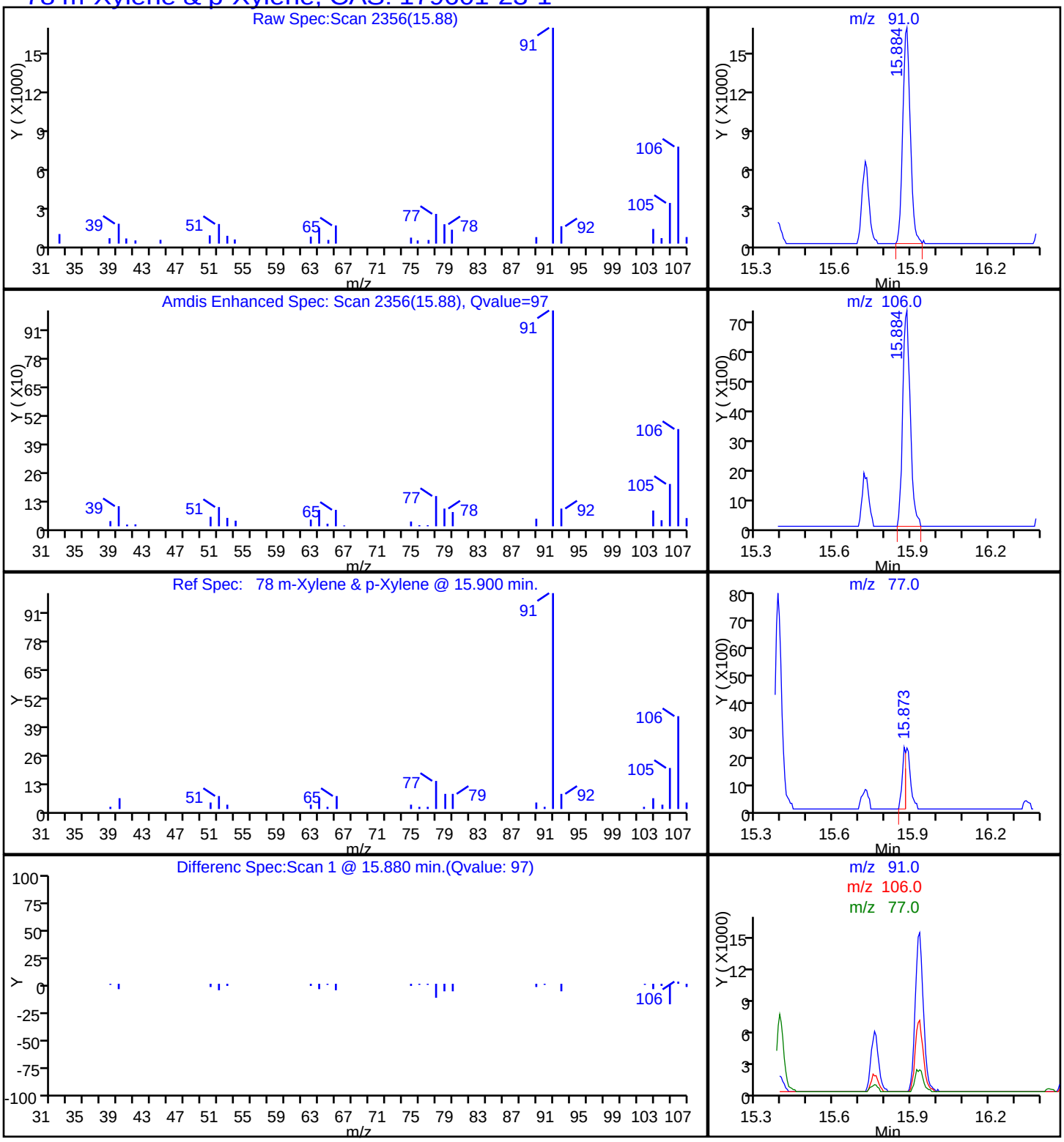
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

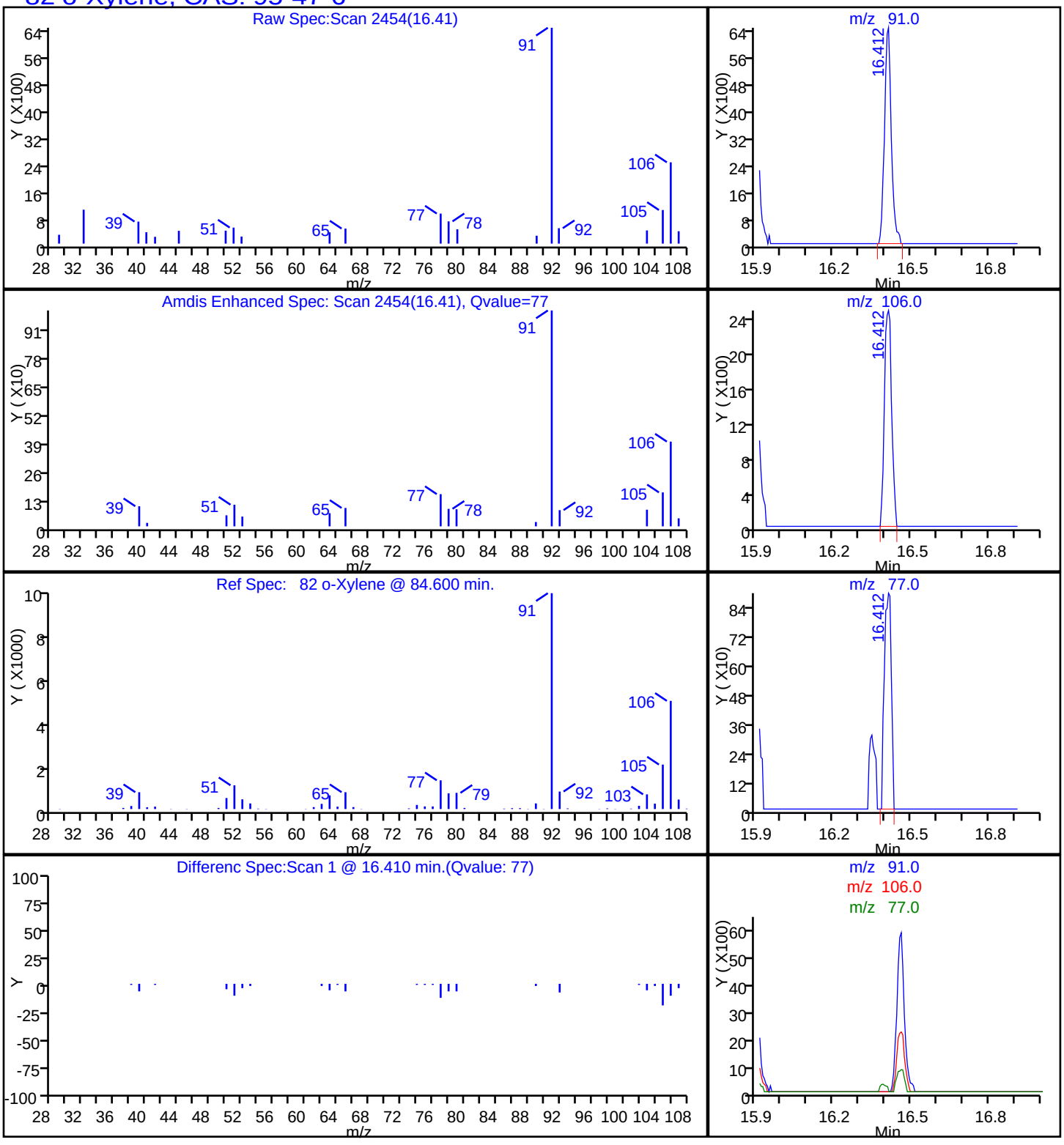


Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



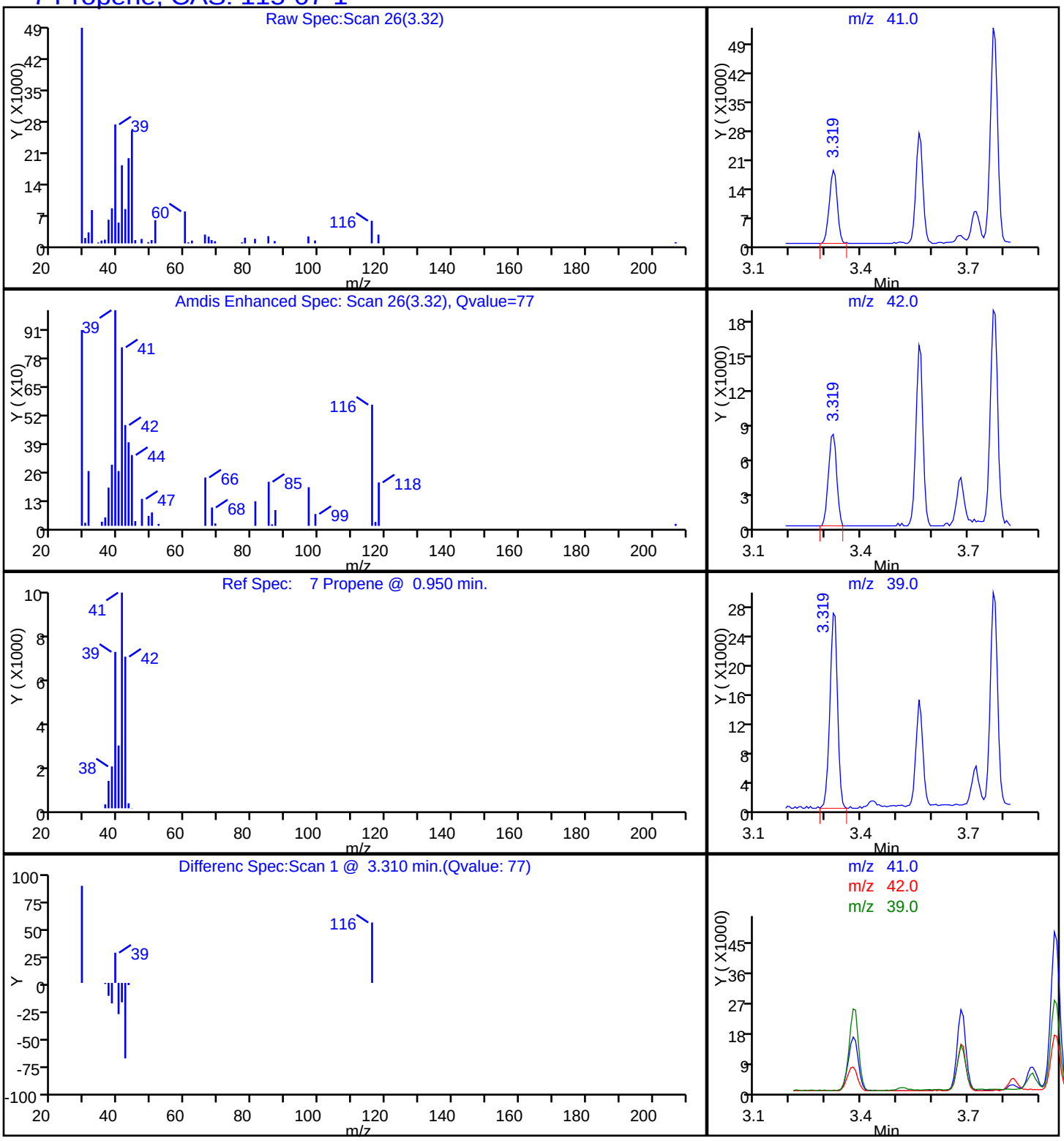
Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME

Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5

Client ID: PCV-AMB-6

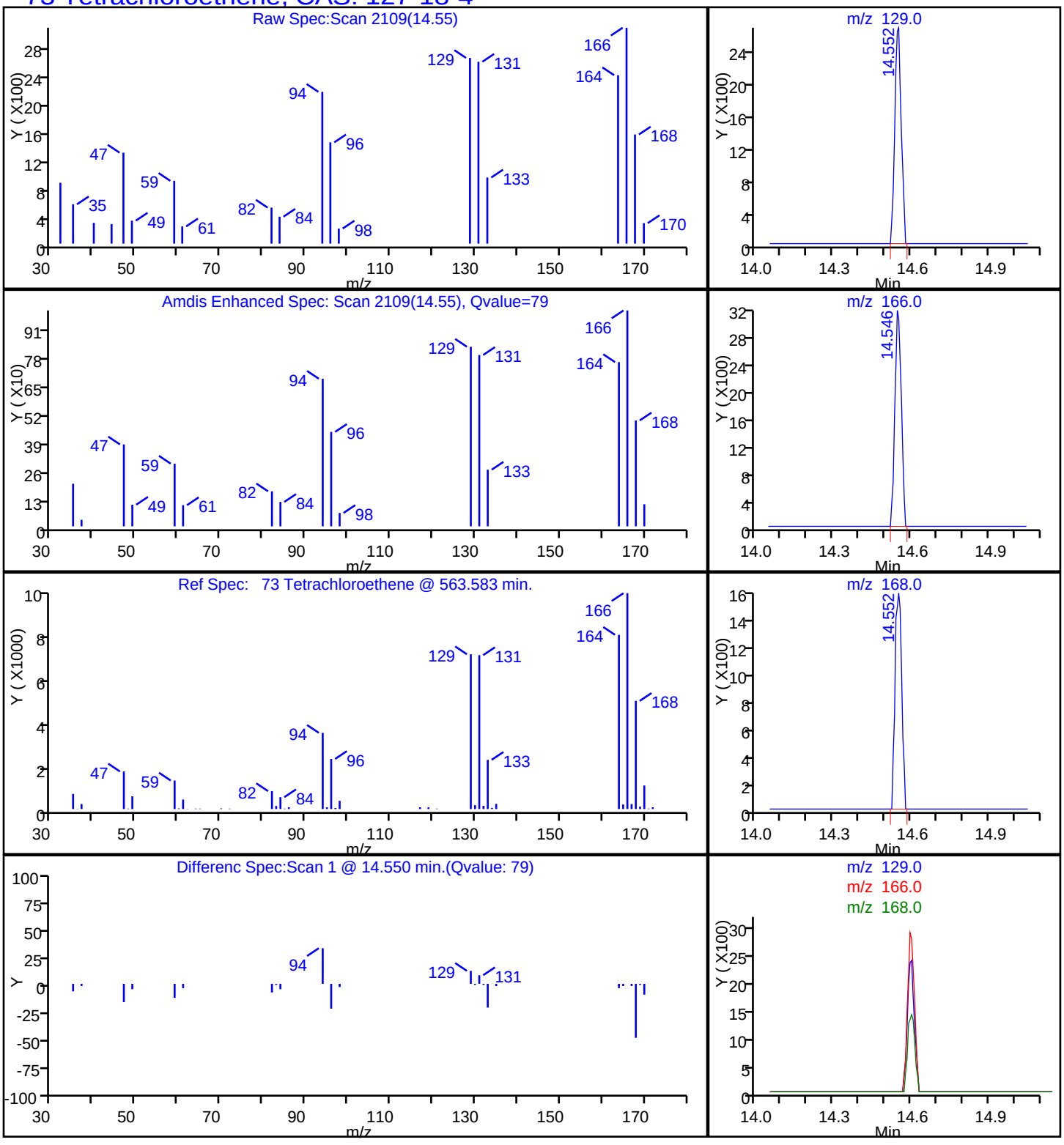
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

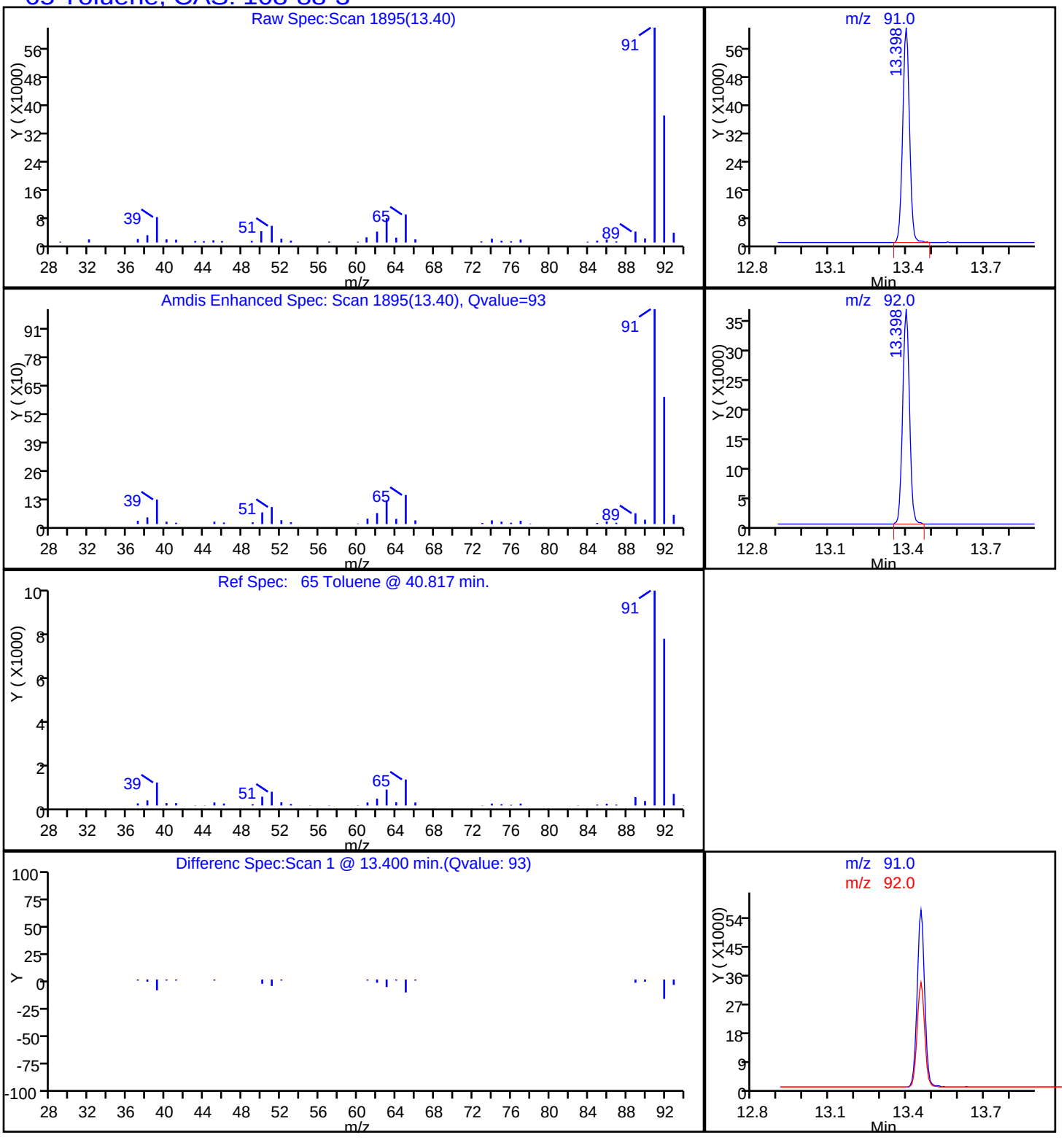
73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D				
Injection Date:	18-Mar-2014 03:01:30	Instrument ID:	ME		
Lims ID:	140-1051-A-5	Lab Sample ID:	140-1051-5		
Client ID:	PCV-AMB-6				
Operator ID:	060487	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



Report Date: 25-Mar-2014 14:36:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS113.D

Injection Date: 18-Mar-2014 03:01:30 Instrument ID: ME

Lims ID: 140-1051-A-5 Lab Sample ID: 140-1051-5

Client ID: PCV-AMB-6

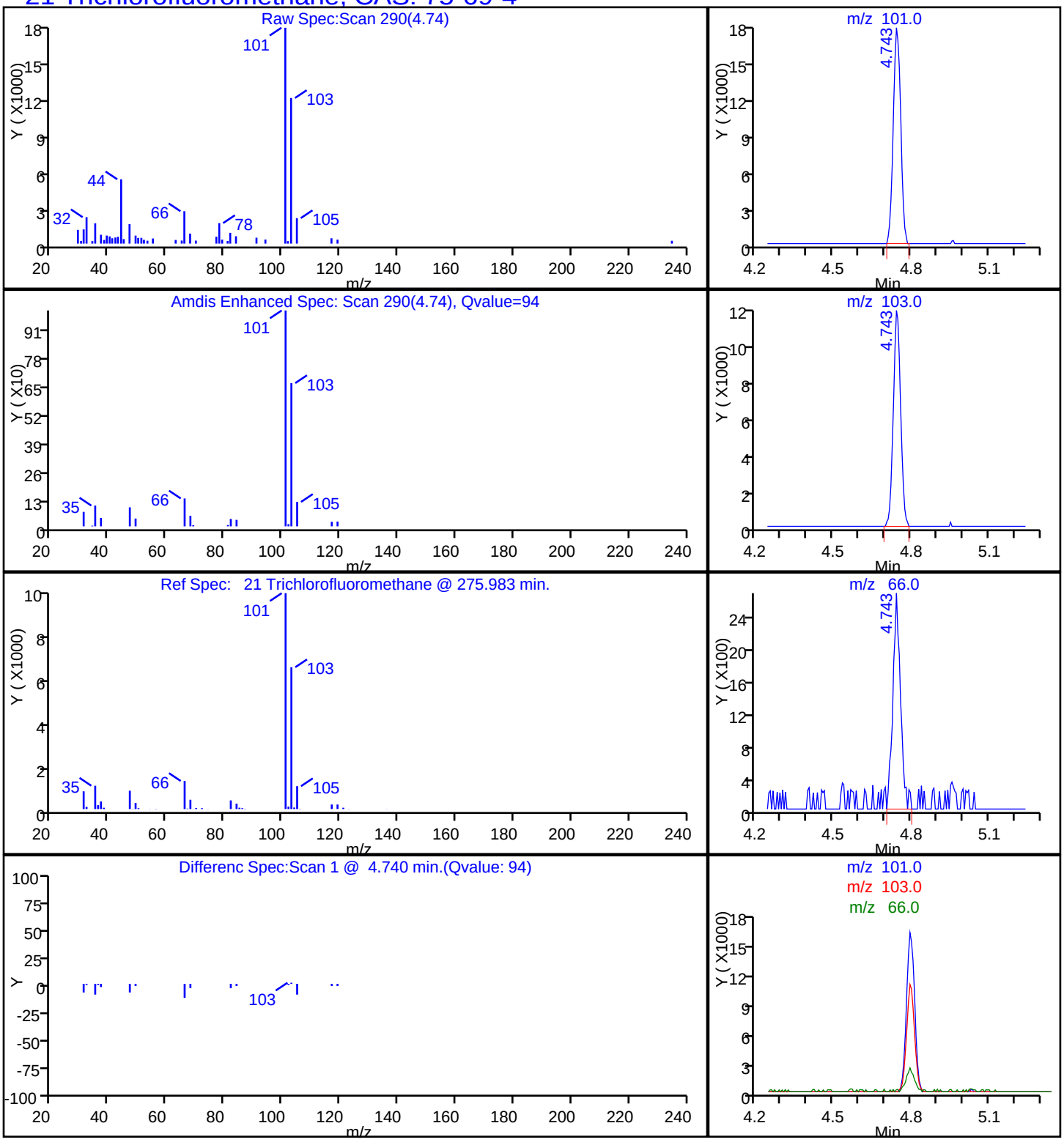
Operator ID: 060487 ALS Bottle#: 13 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

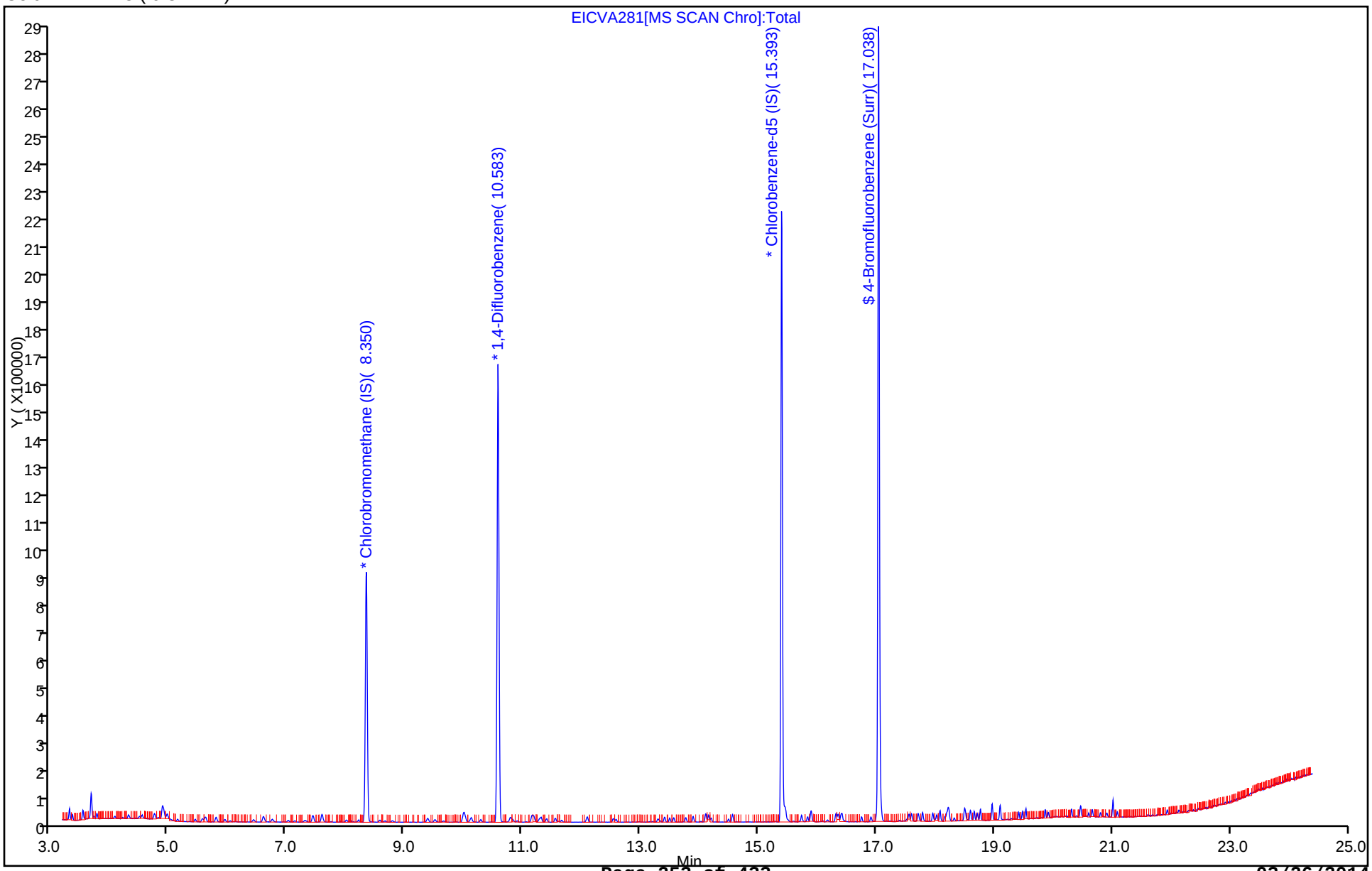
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

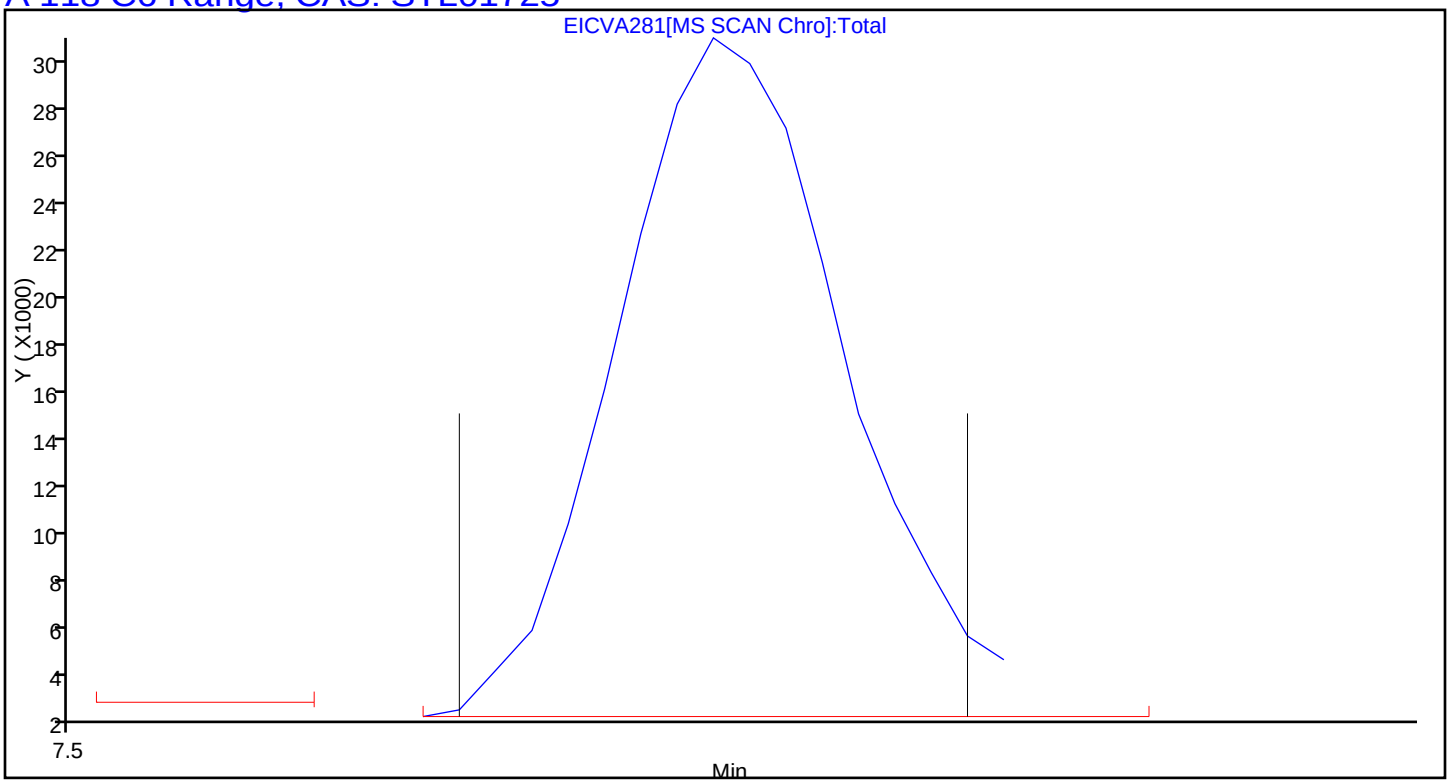


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

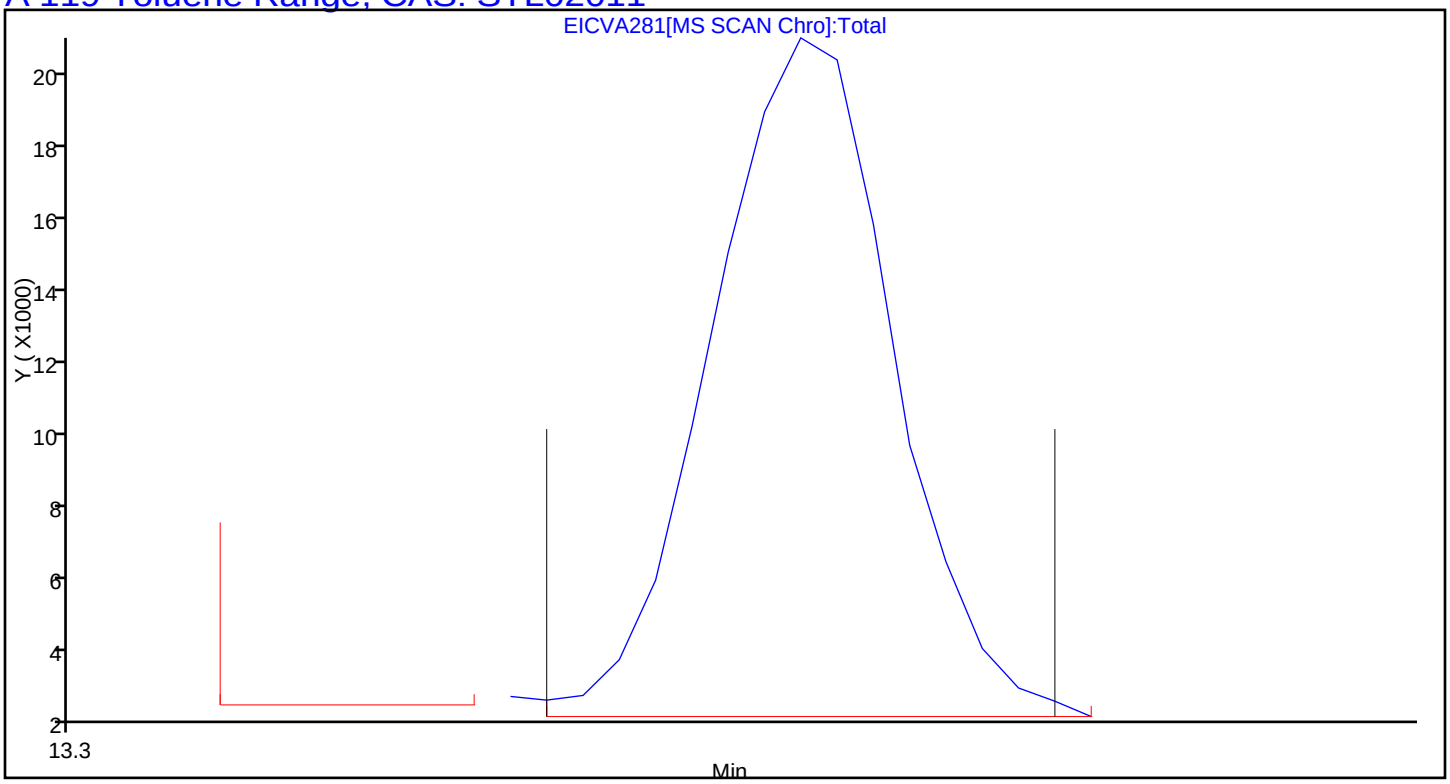


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

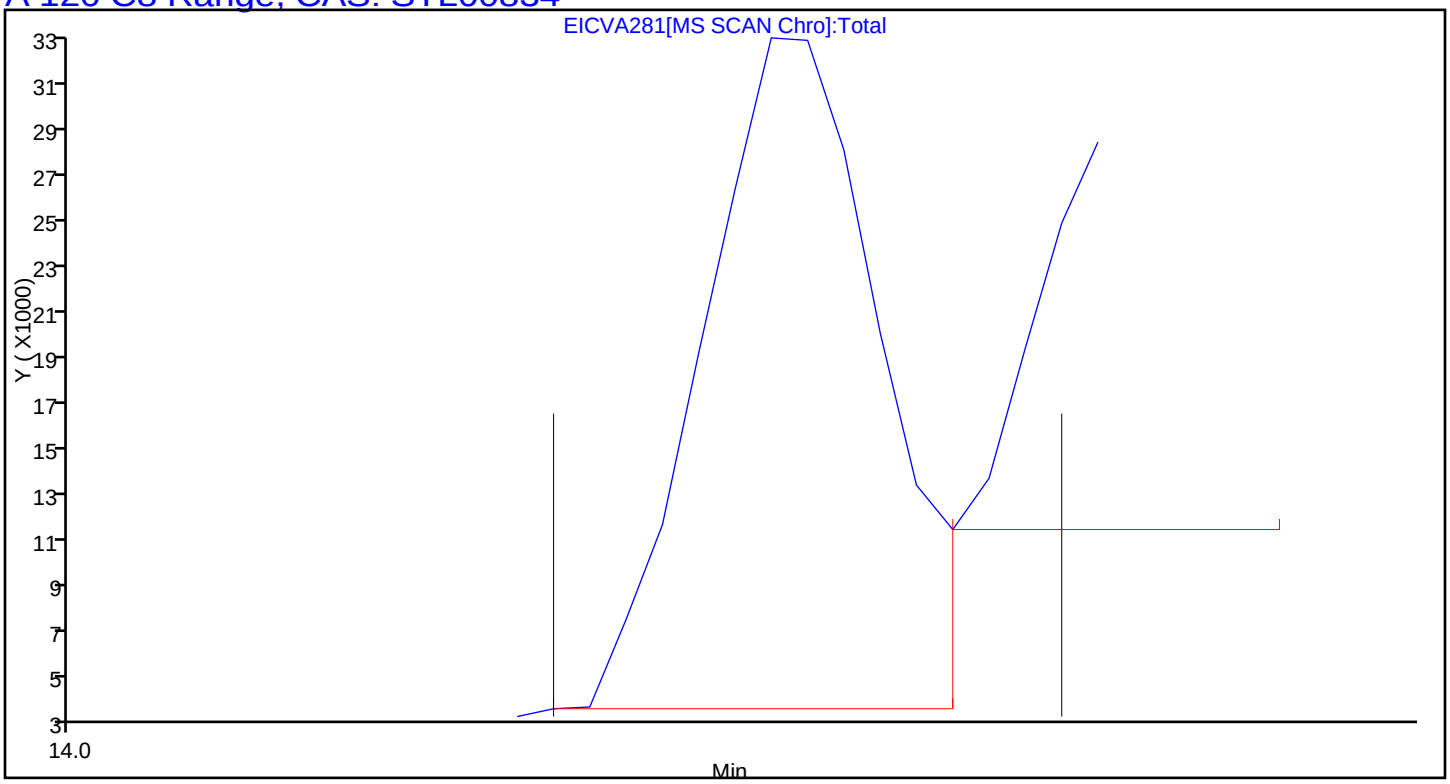


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

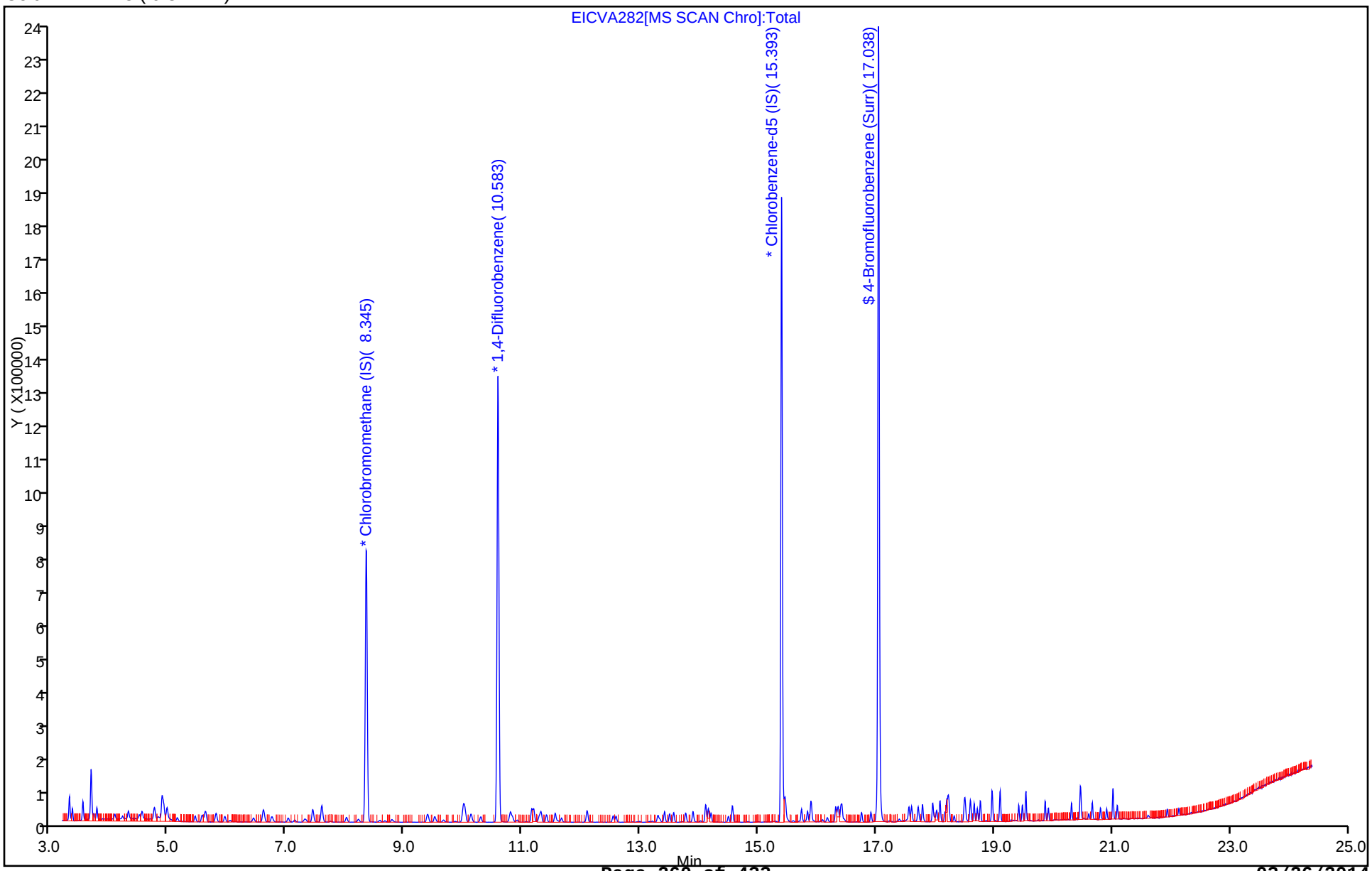
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

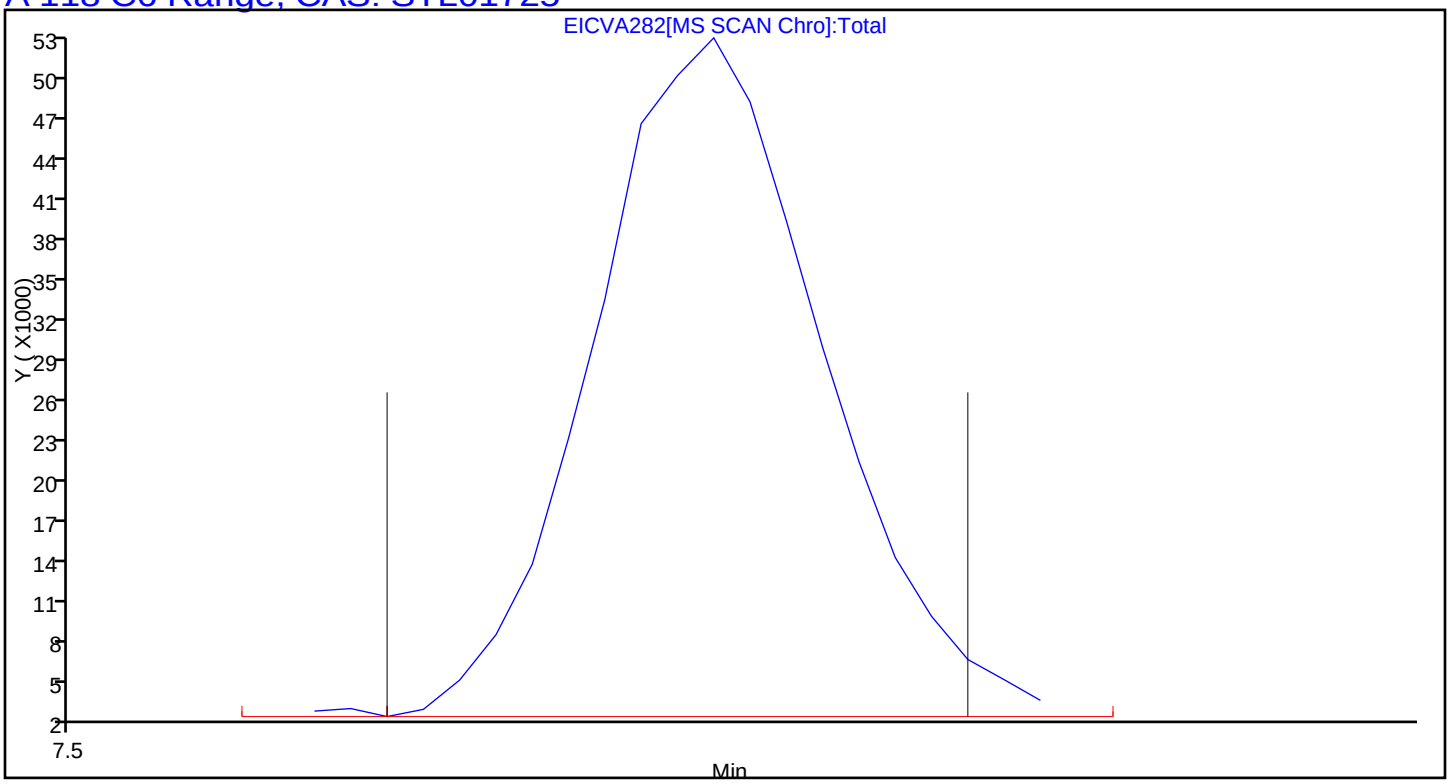


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

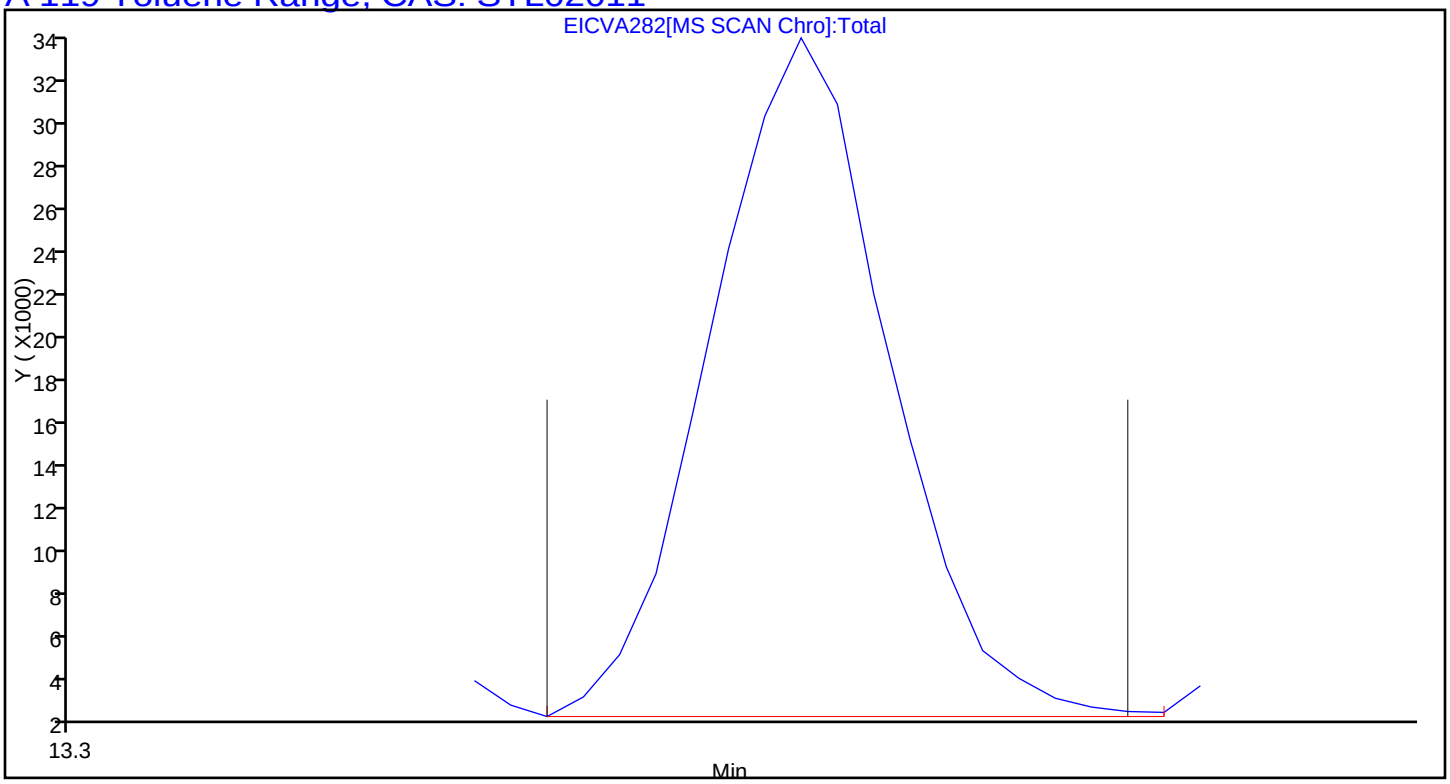


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

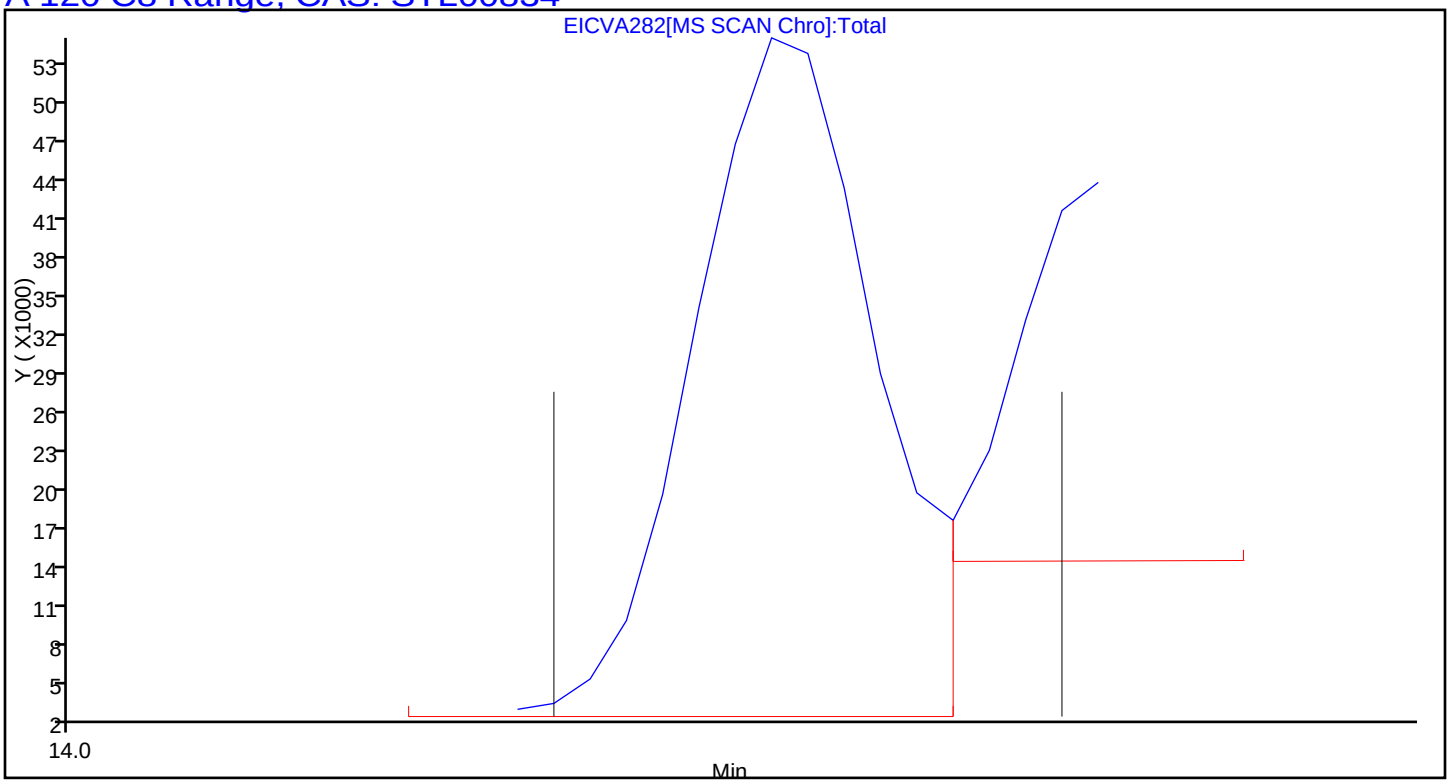


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

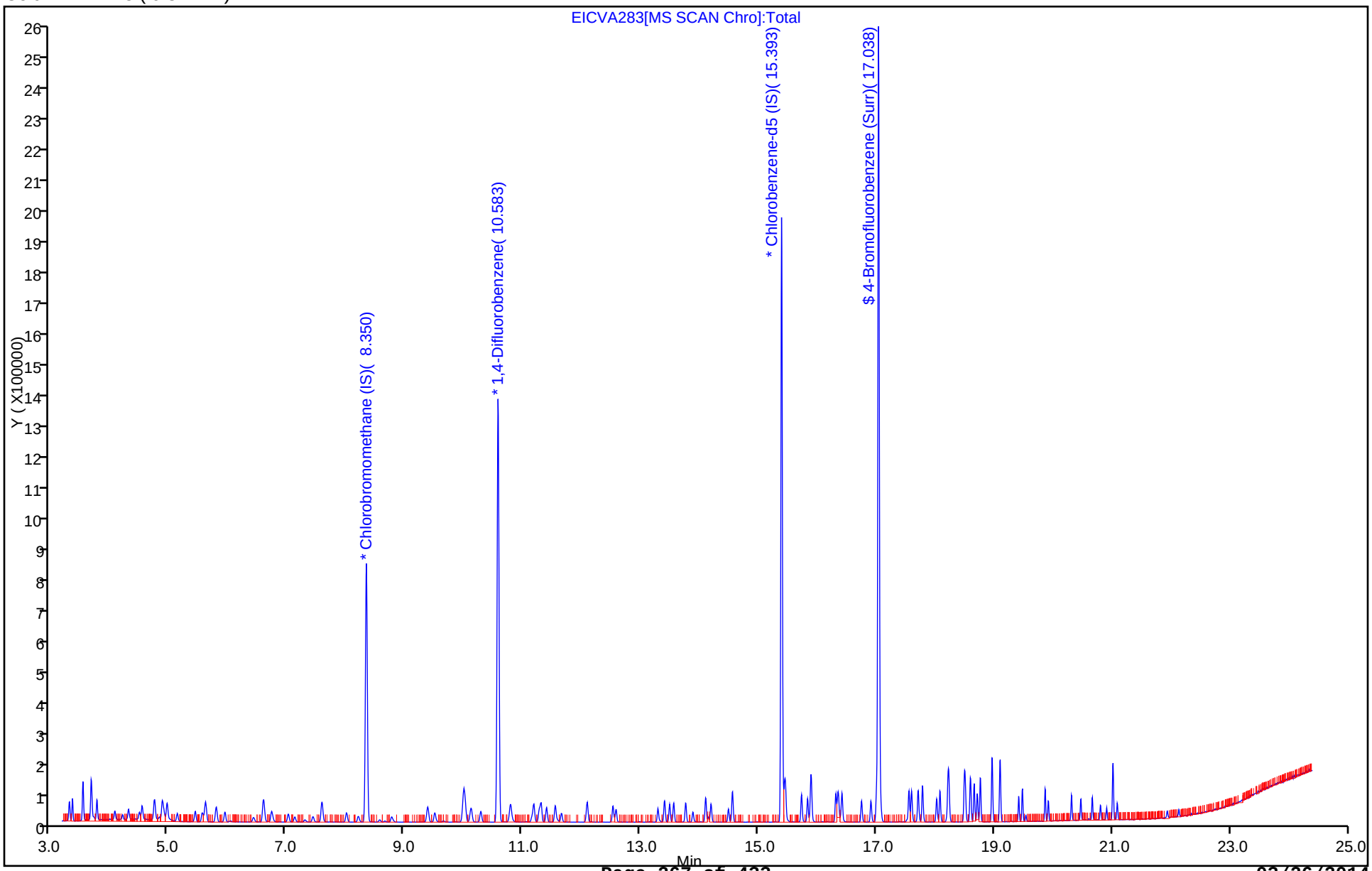
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

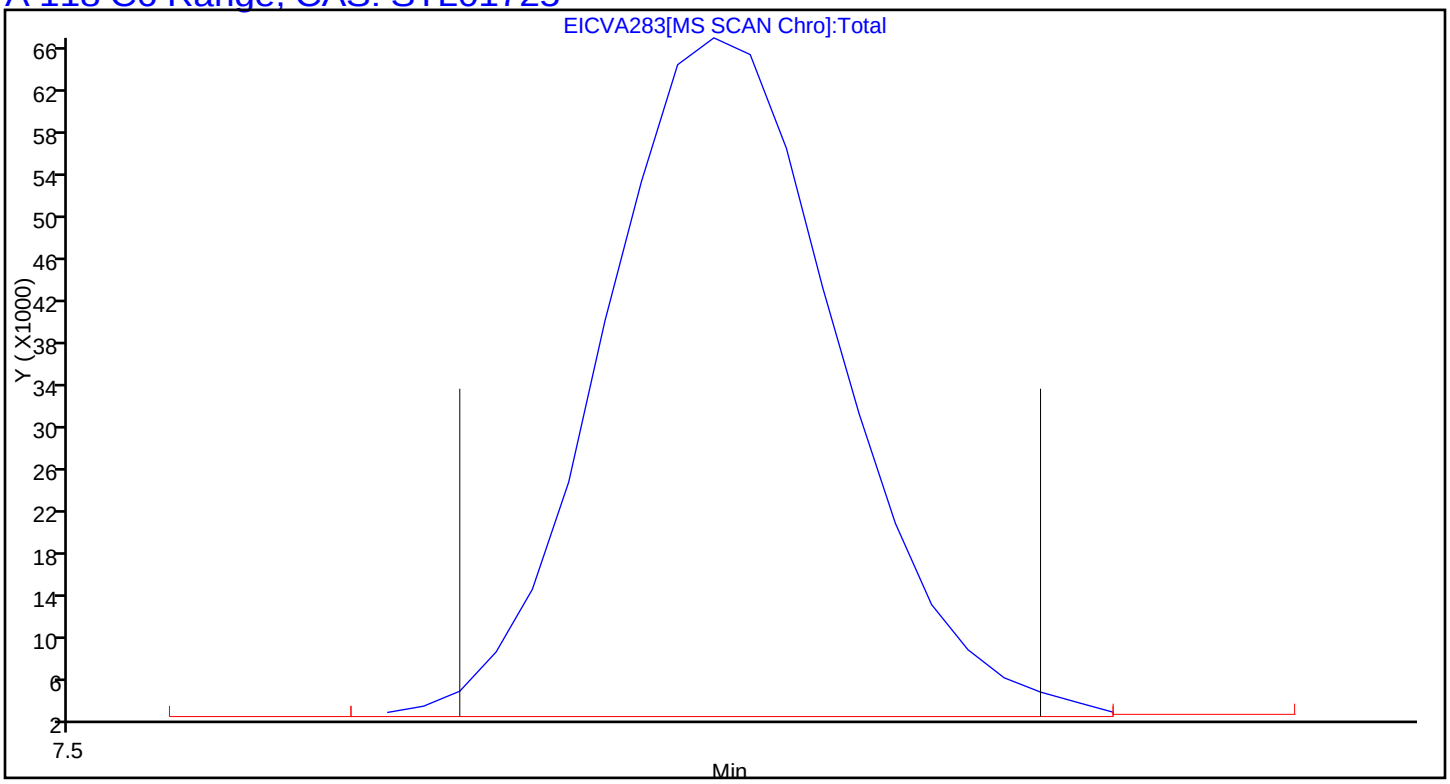


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

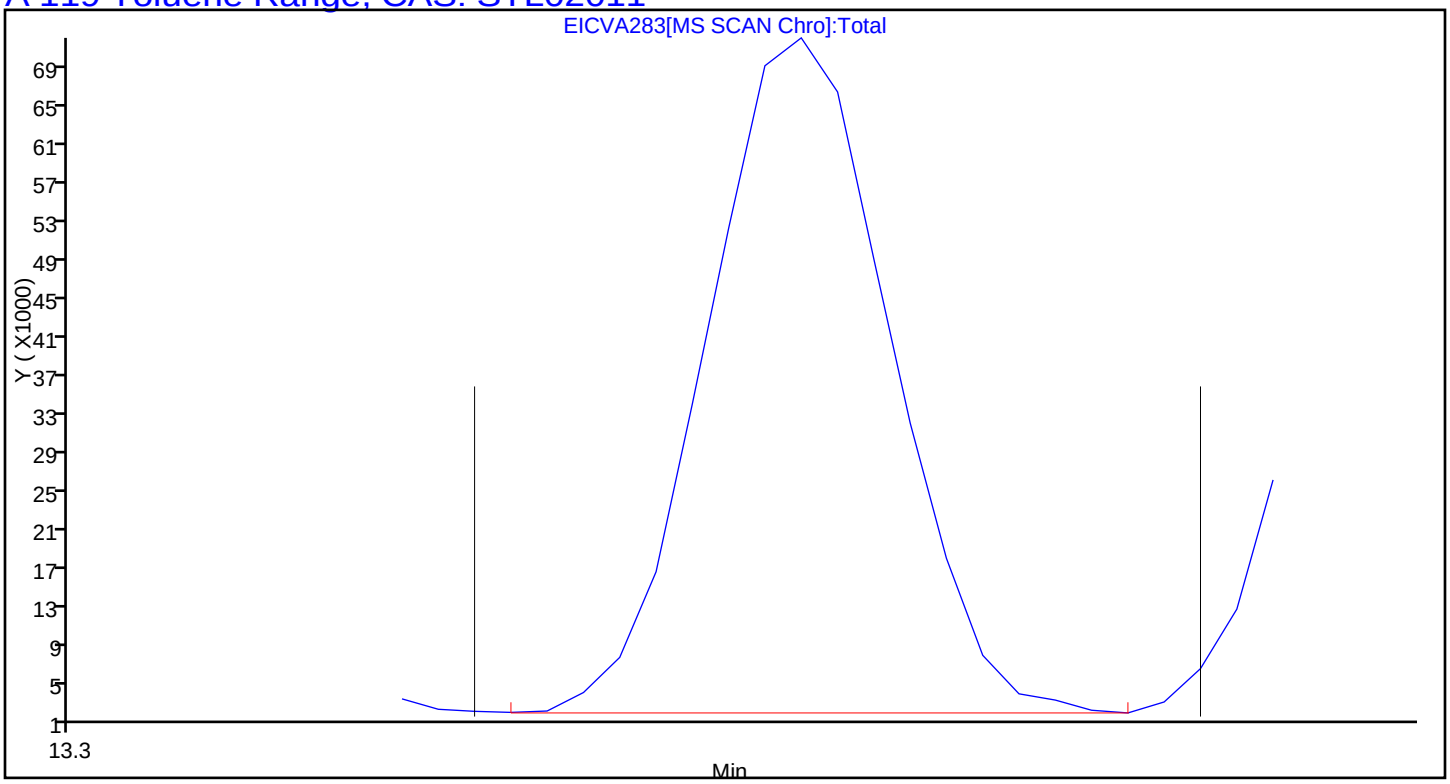


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

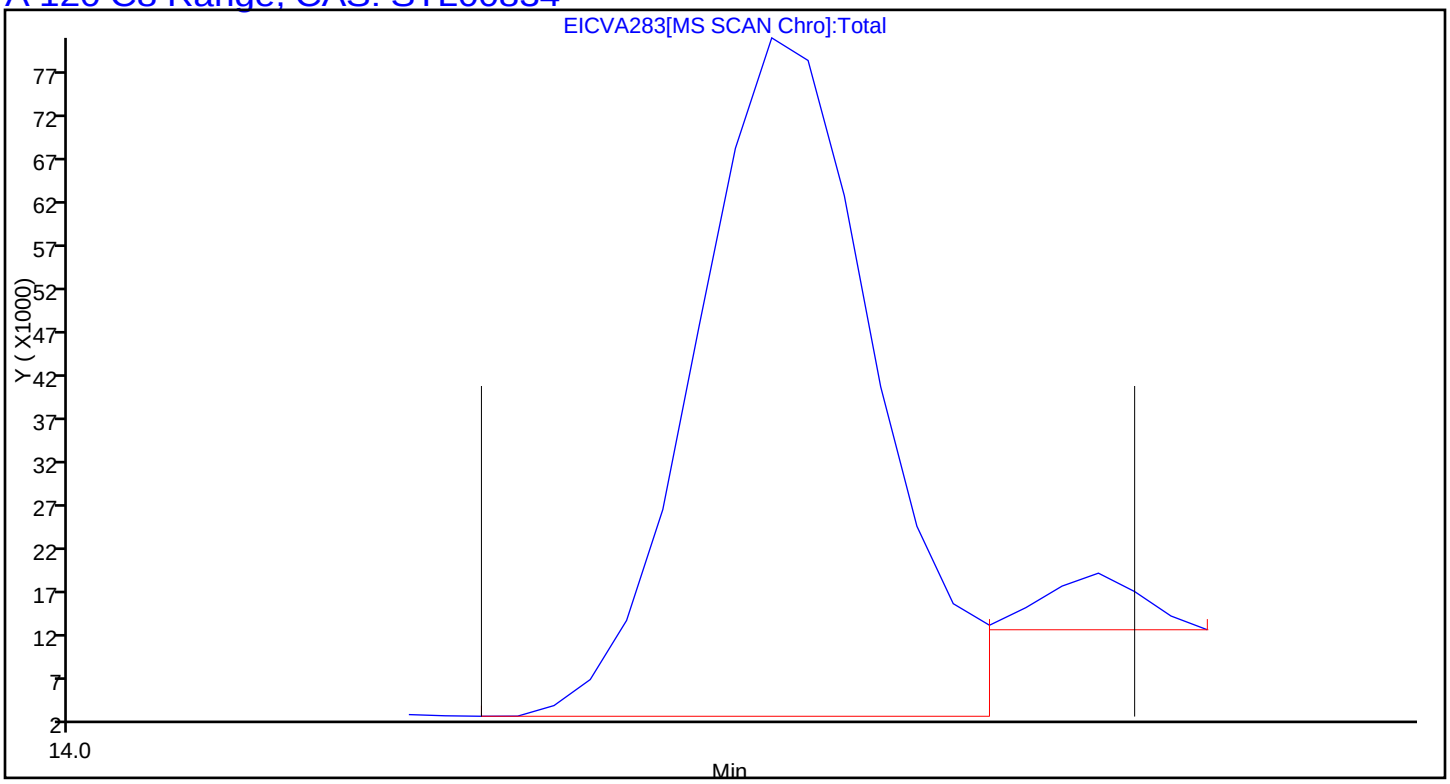


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

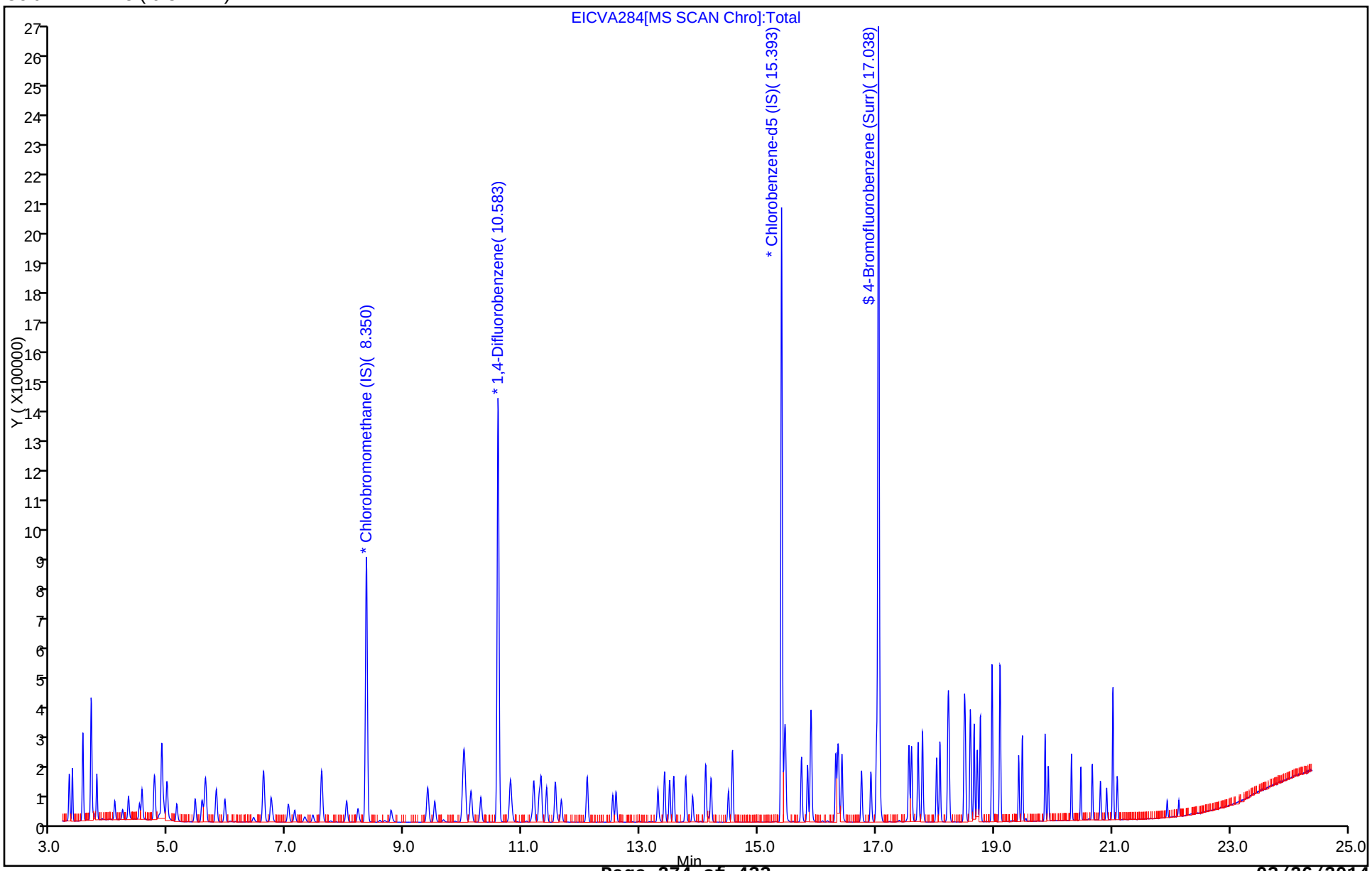
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

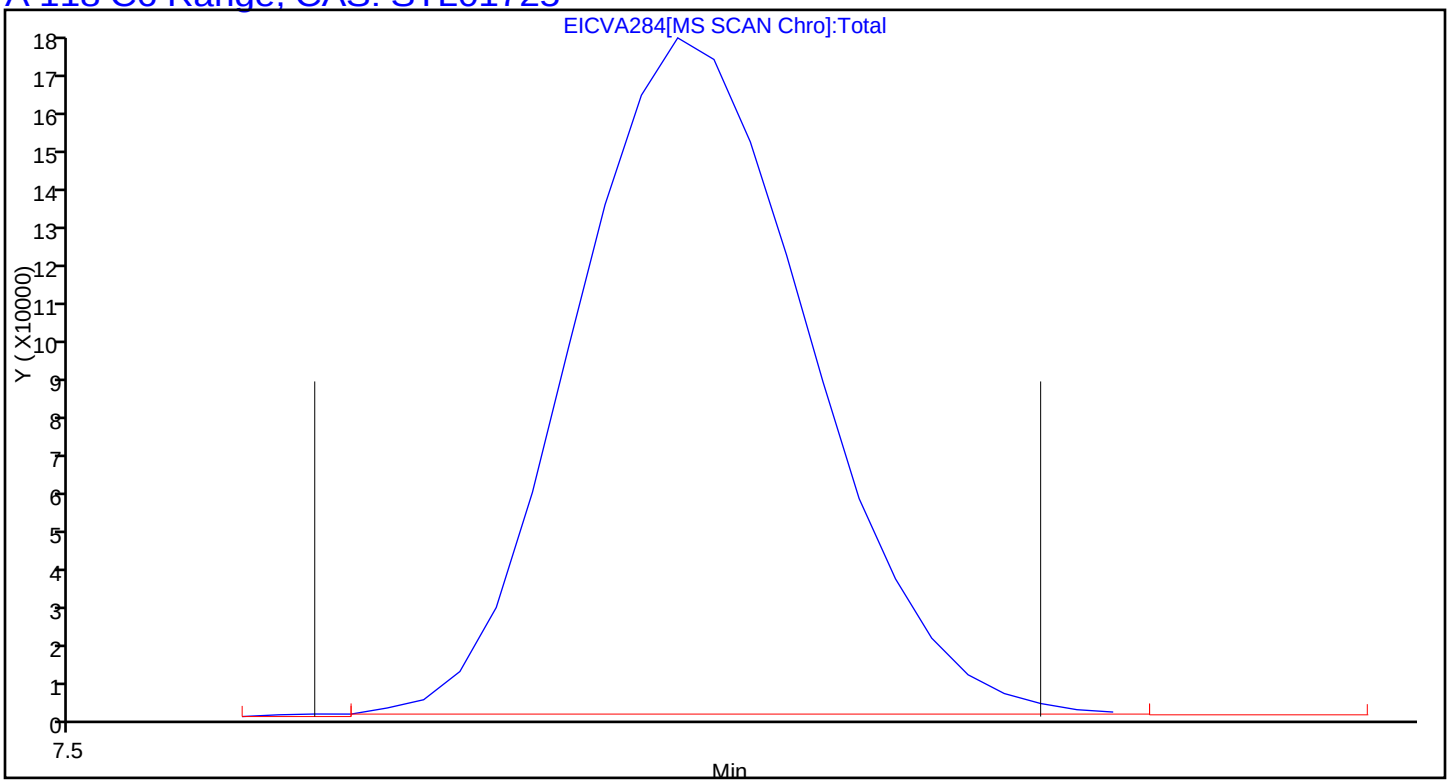


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

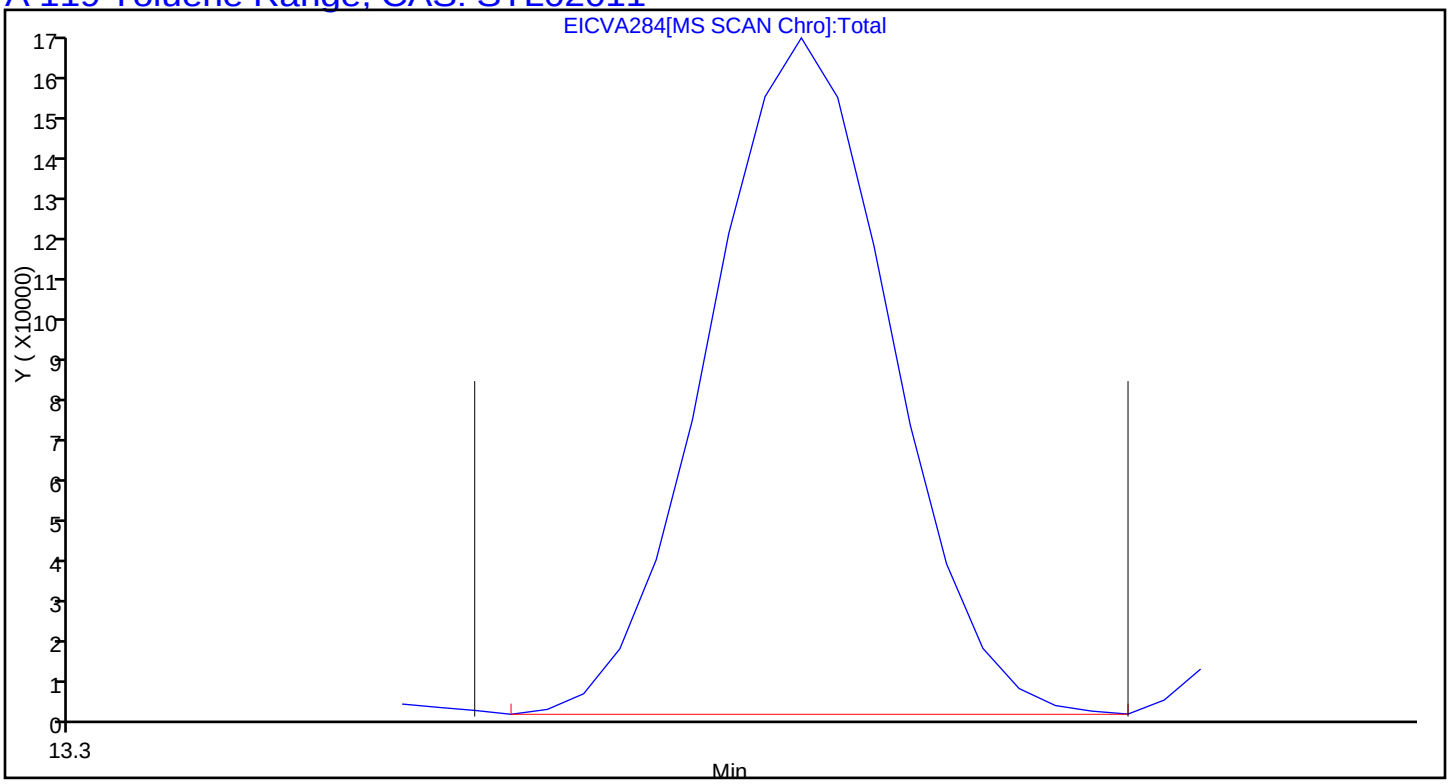


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

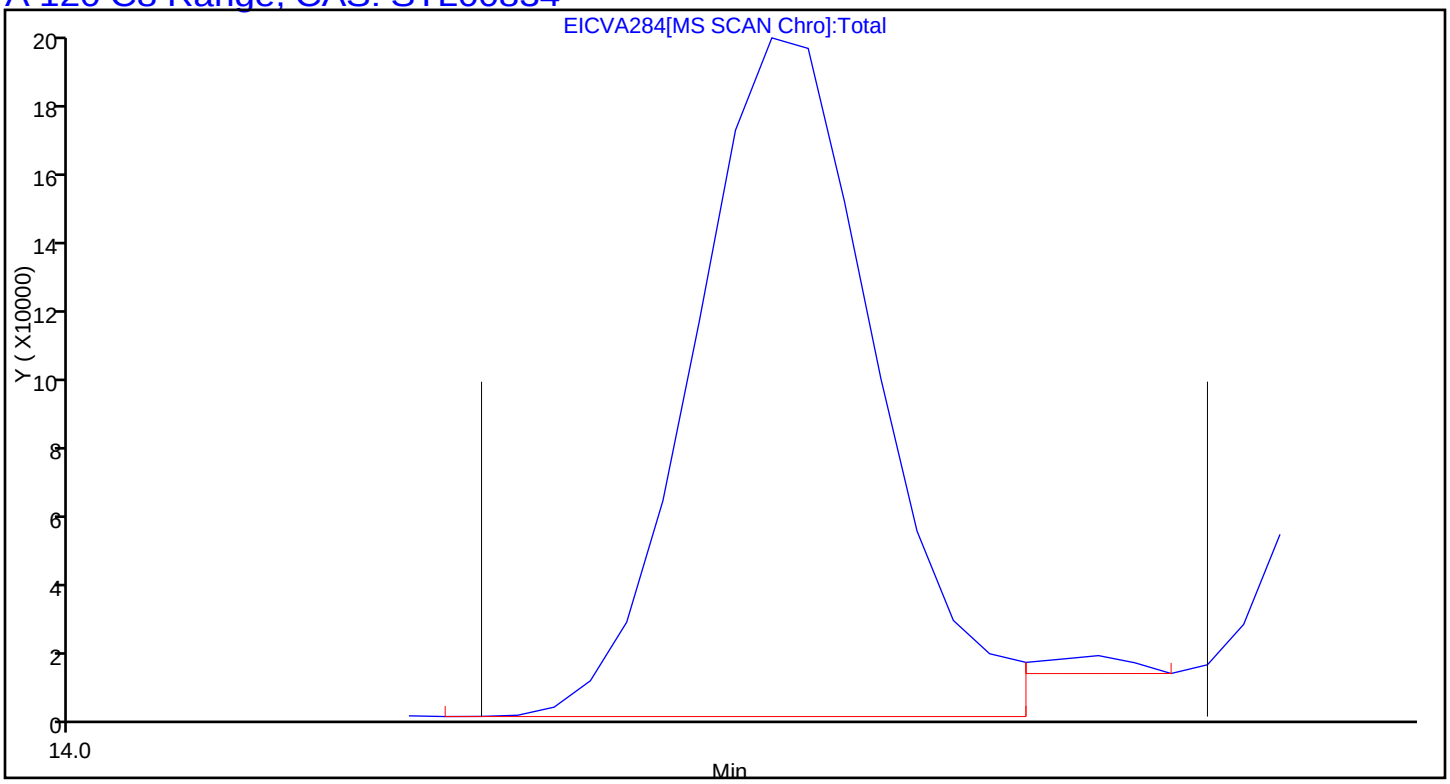


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

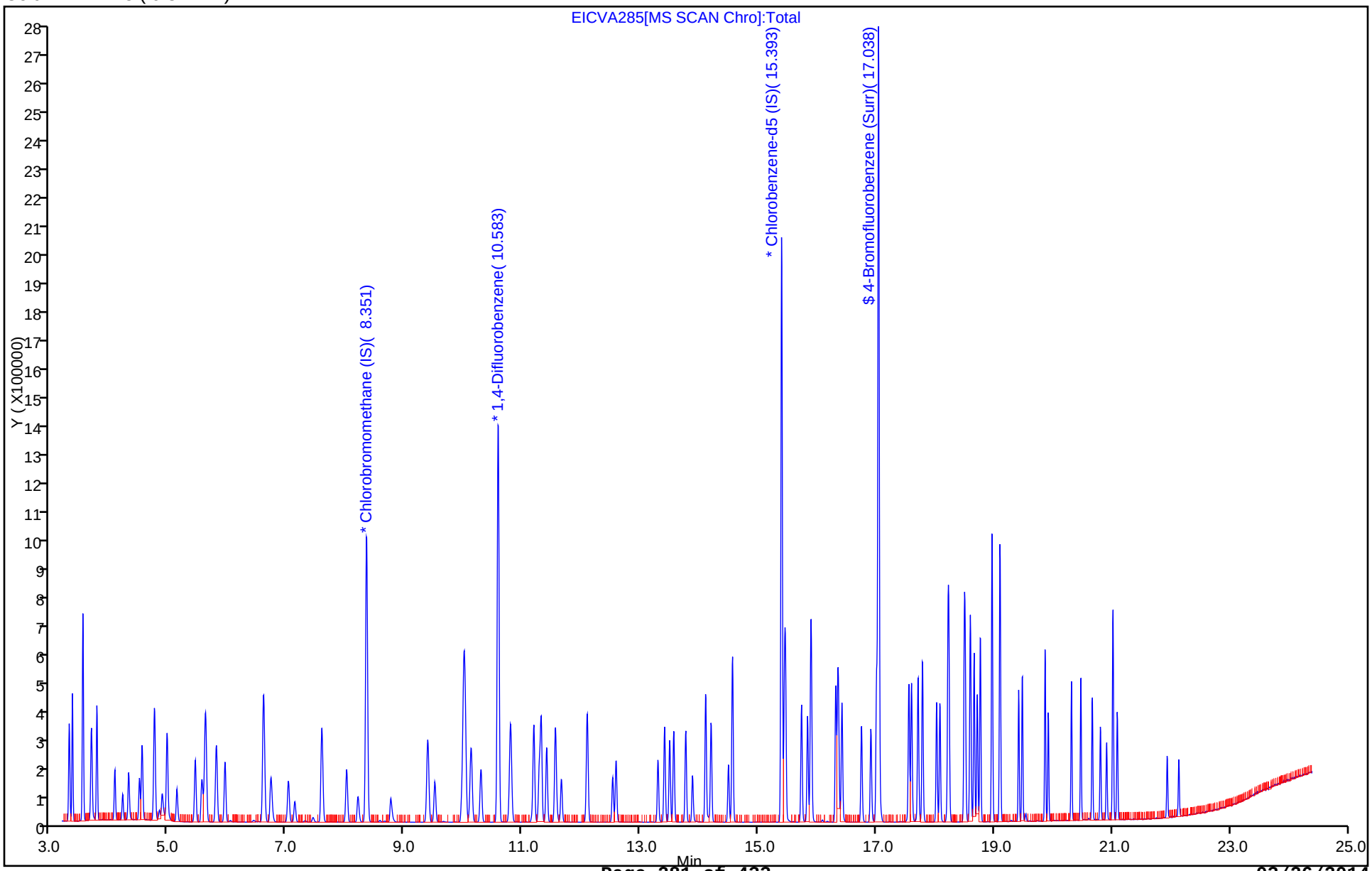
Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

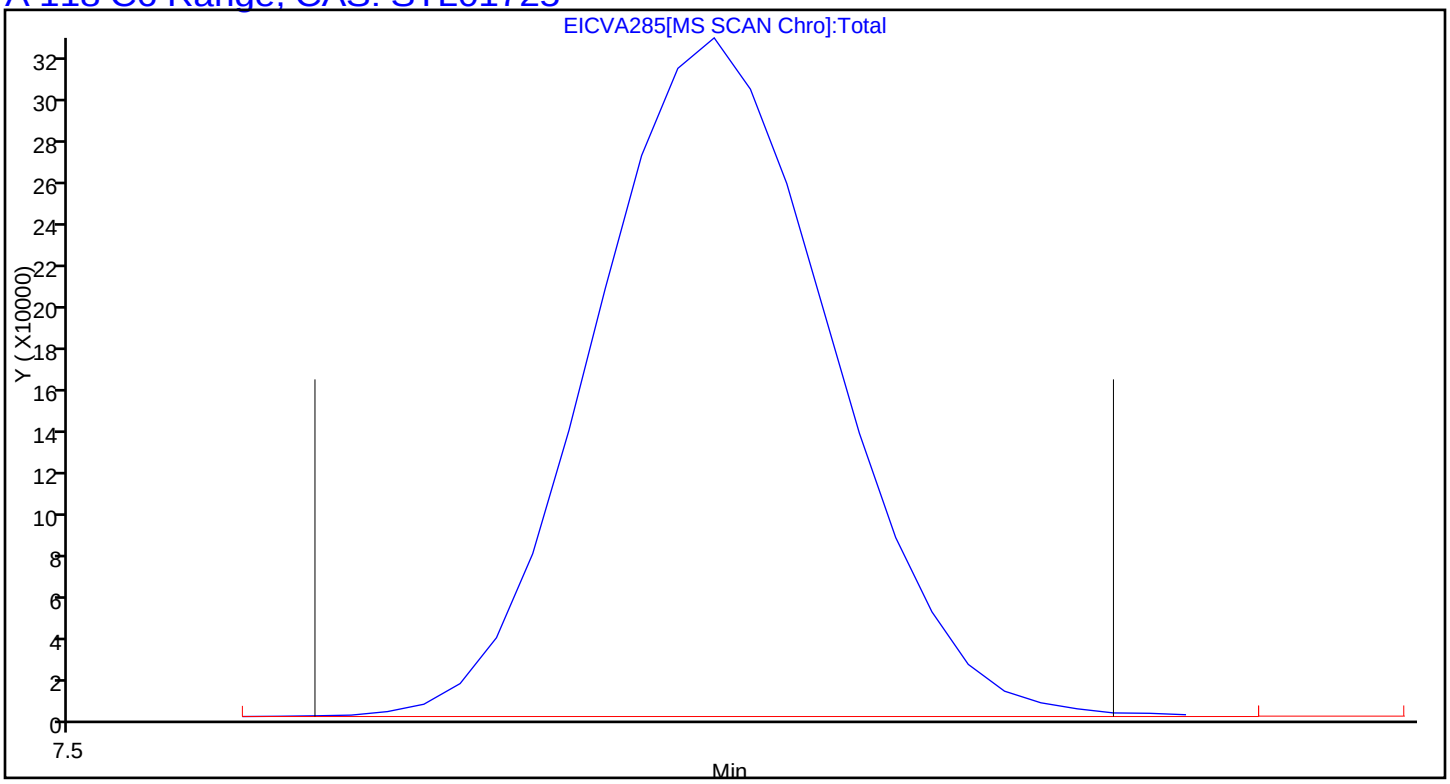


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

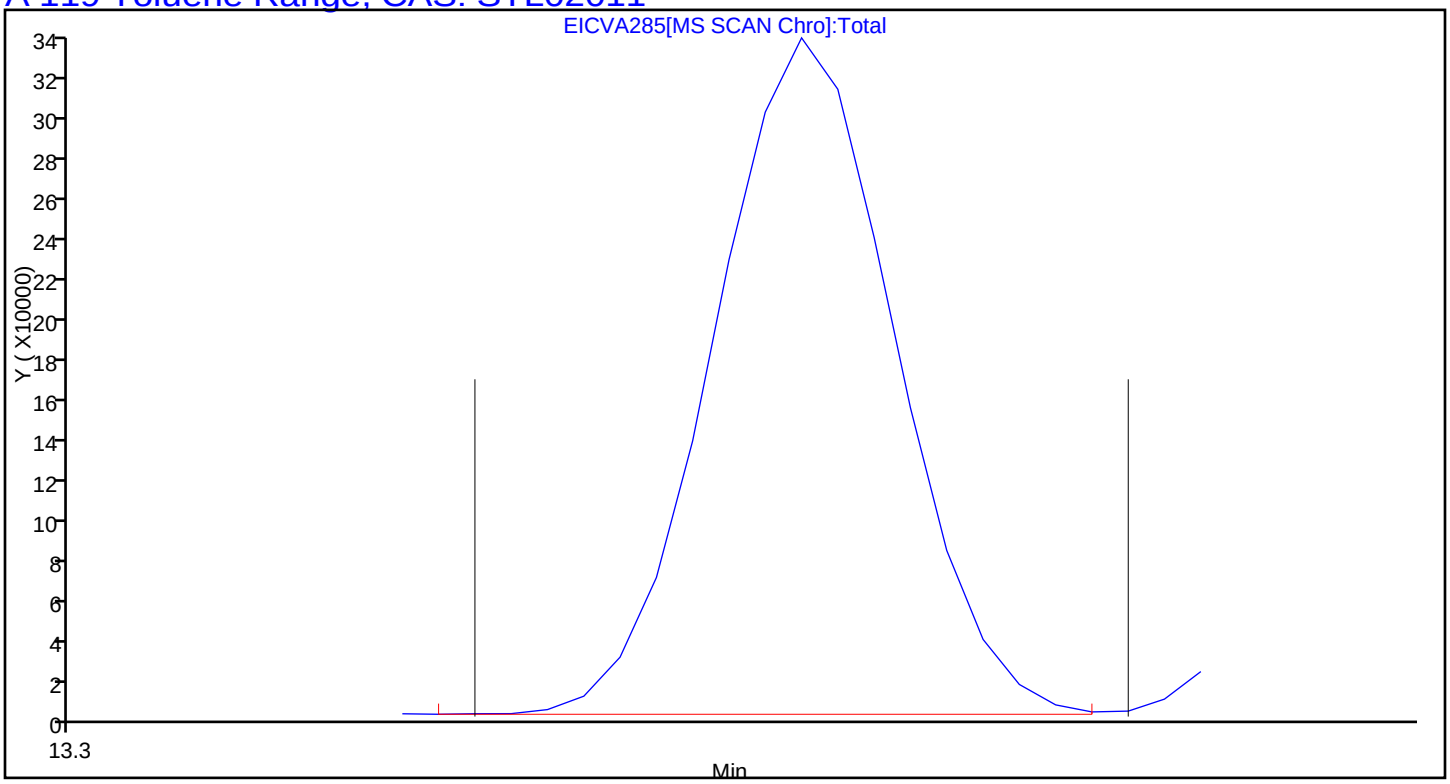


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

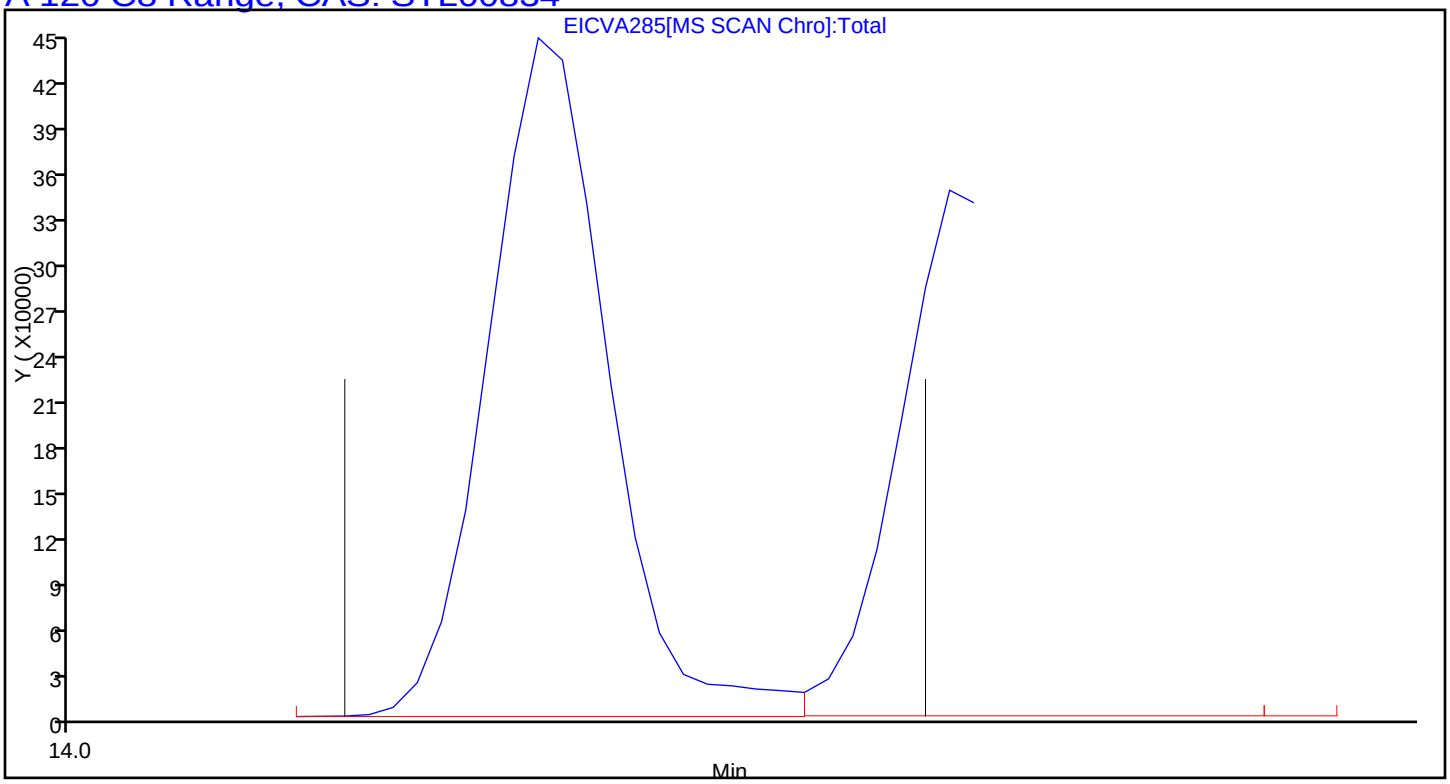


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

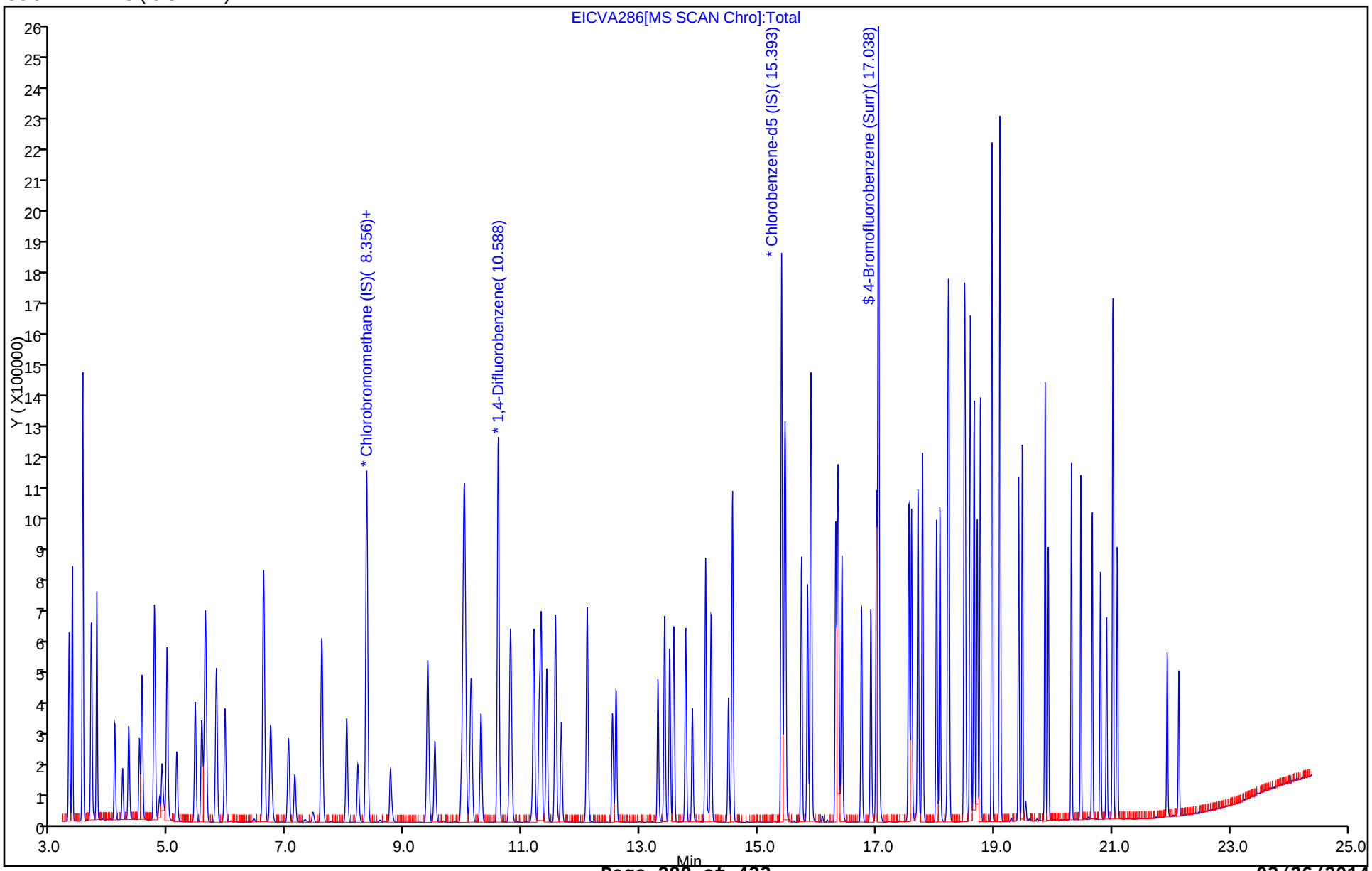
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

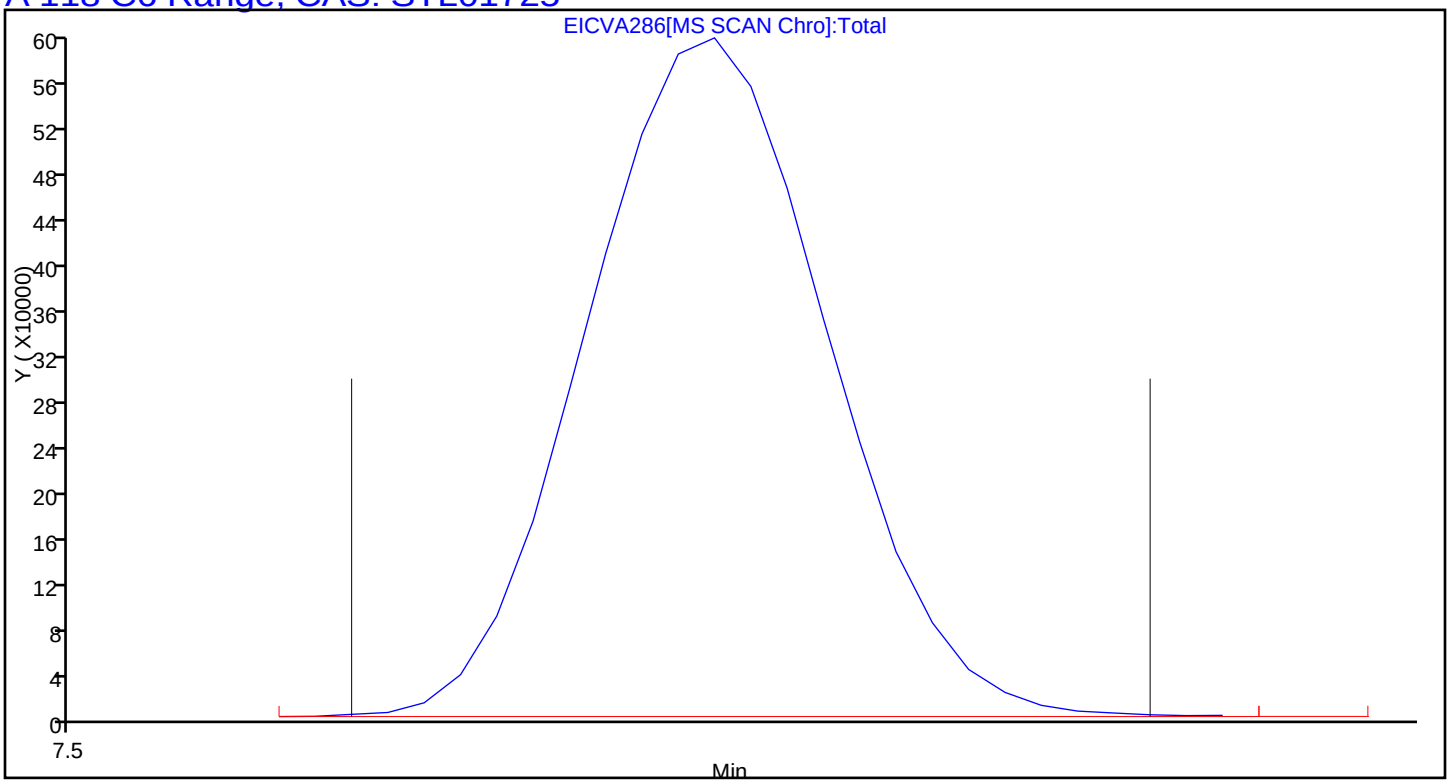


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

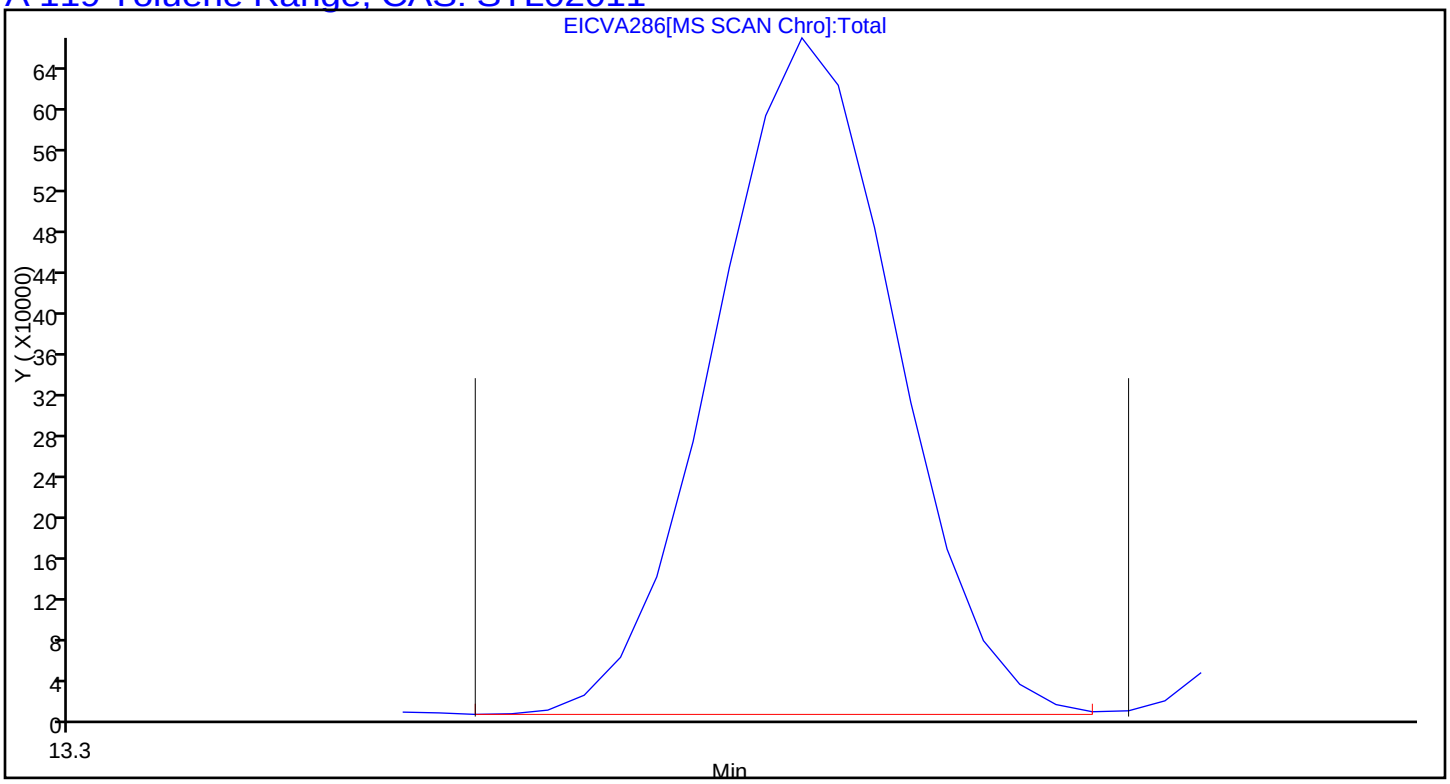


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

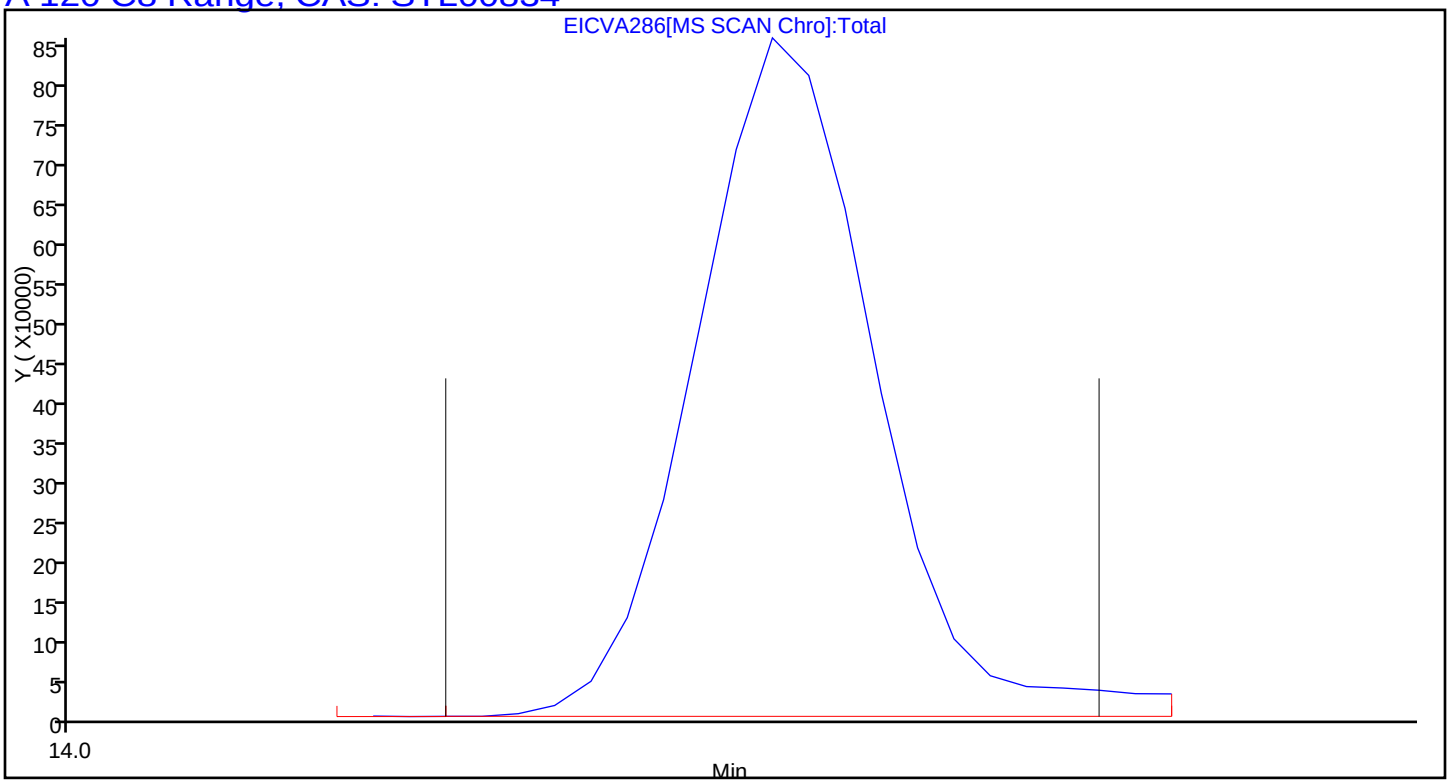


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

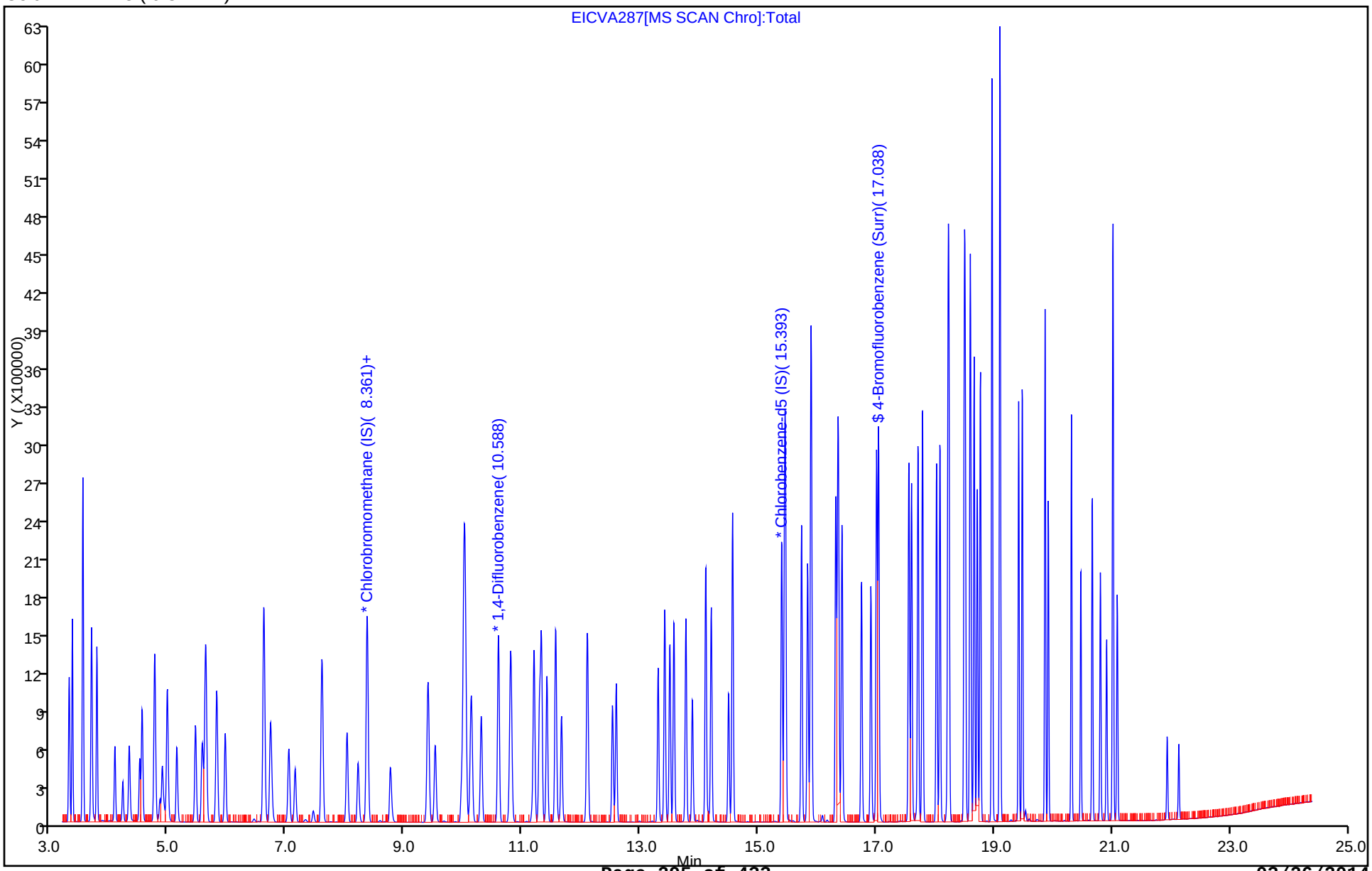
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

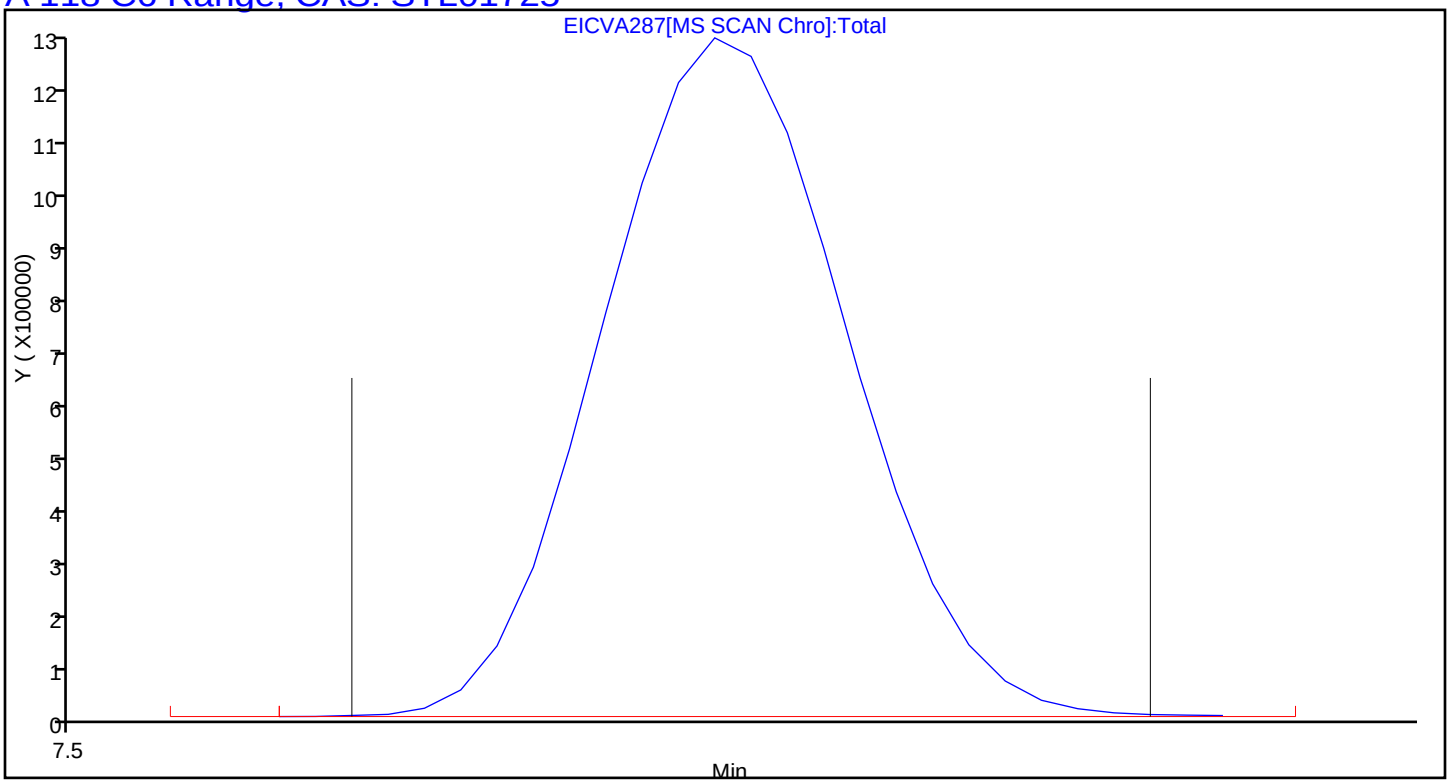


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

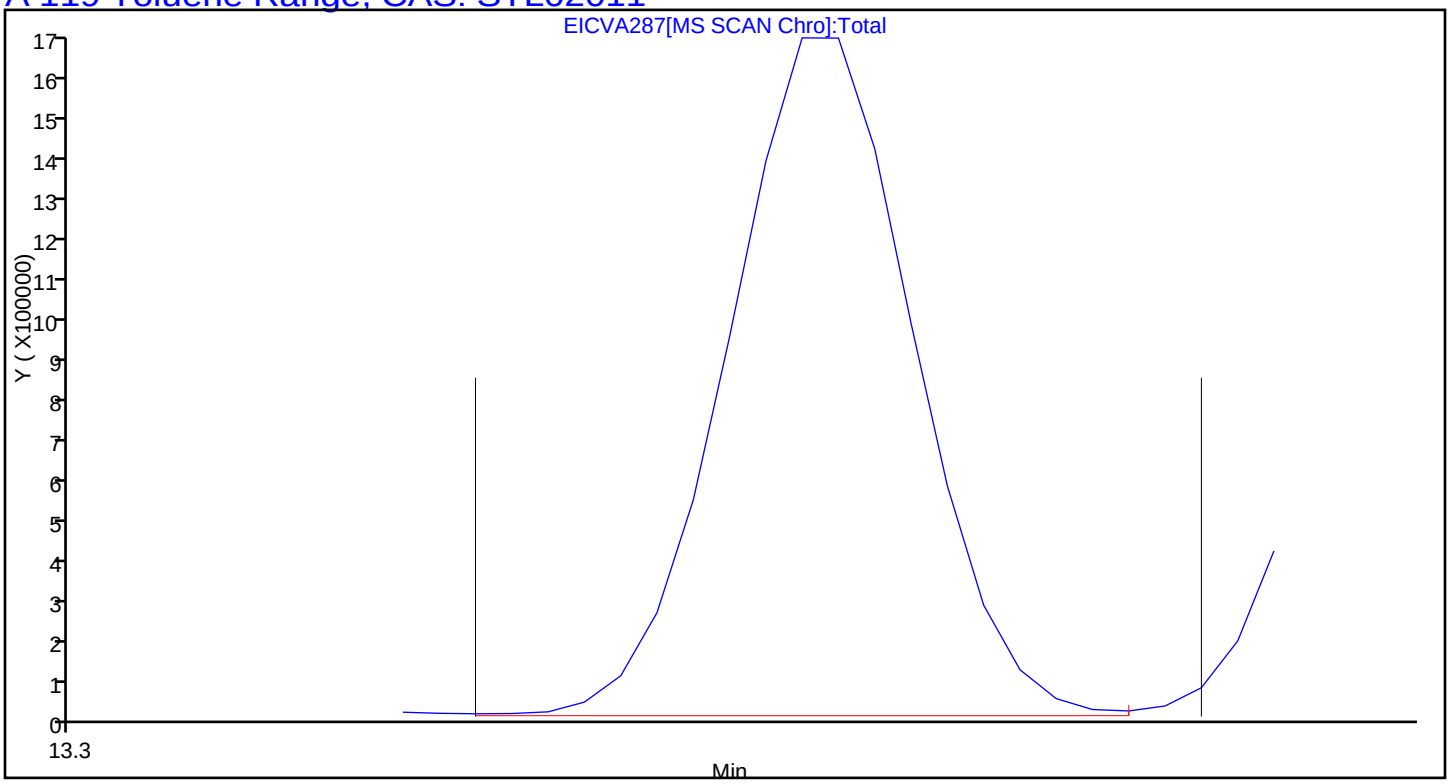


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

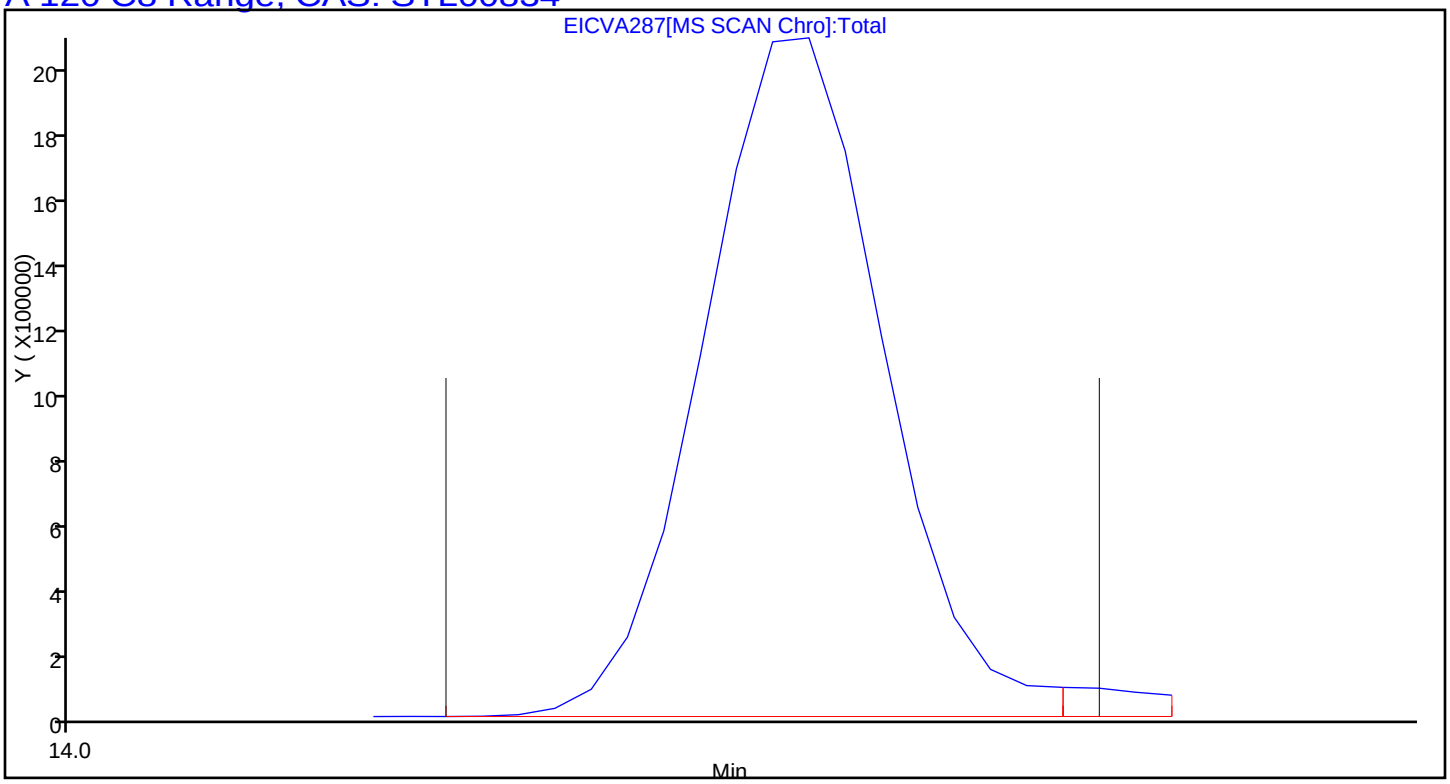


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

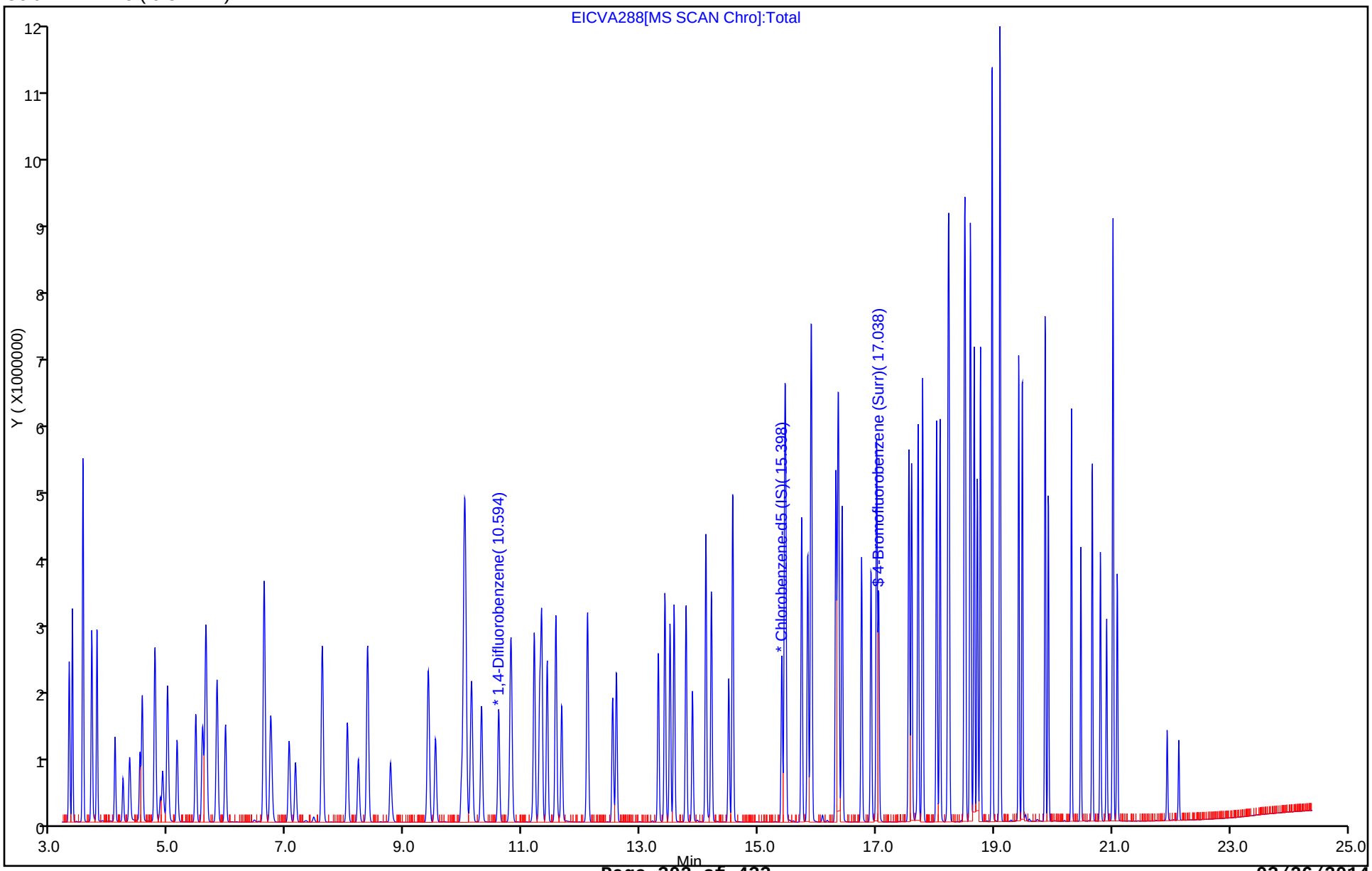
Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

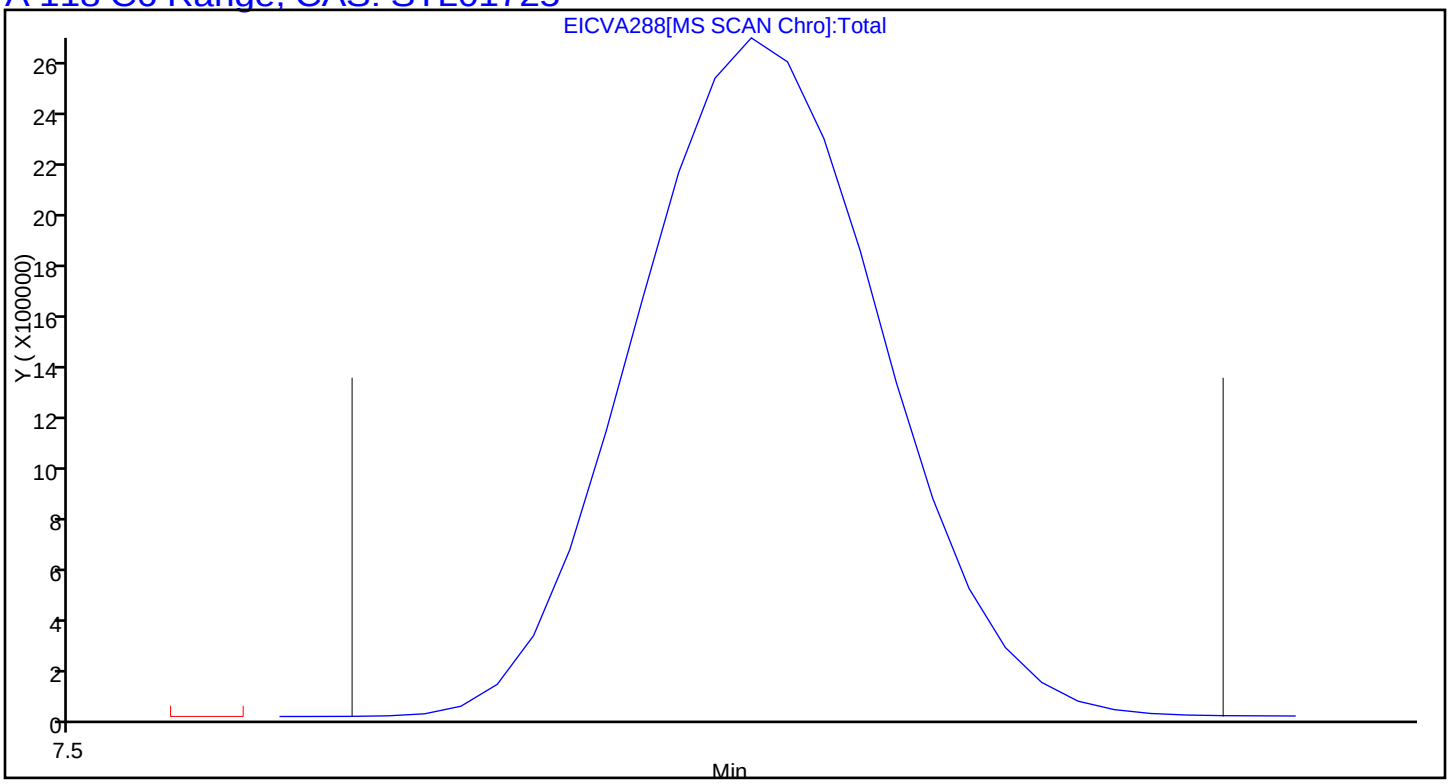


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

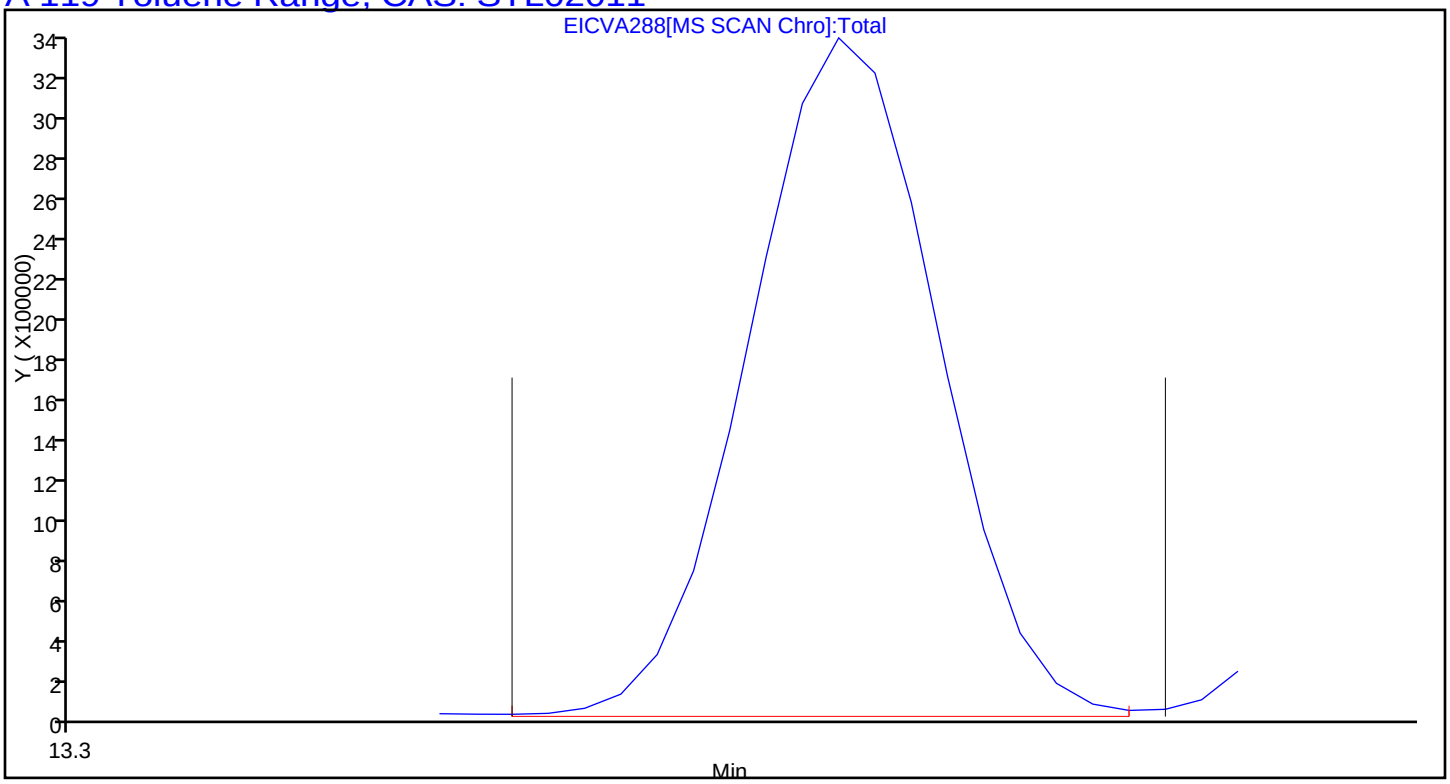


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

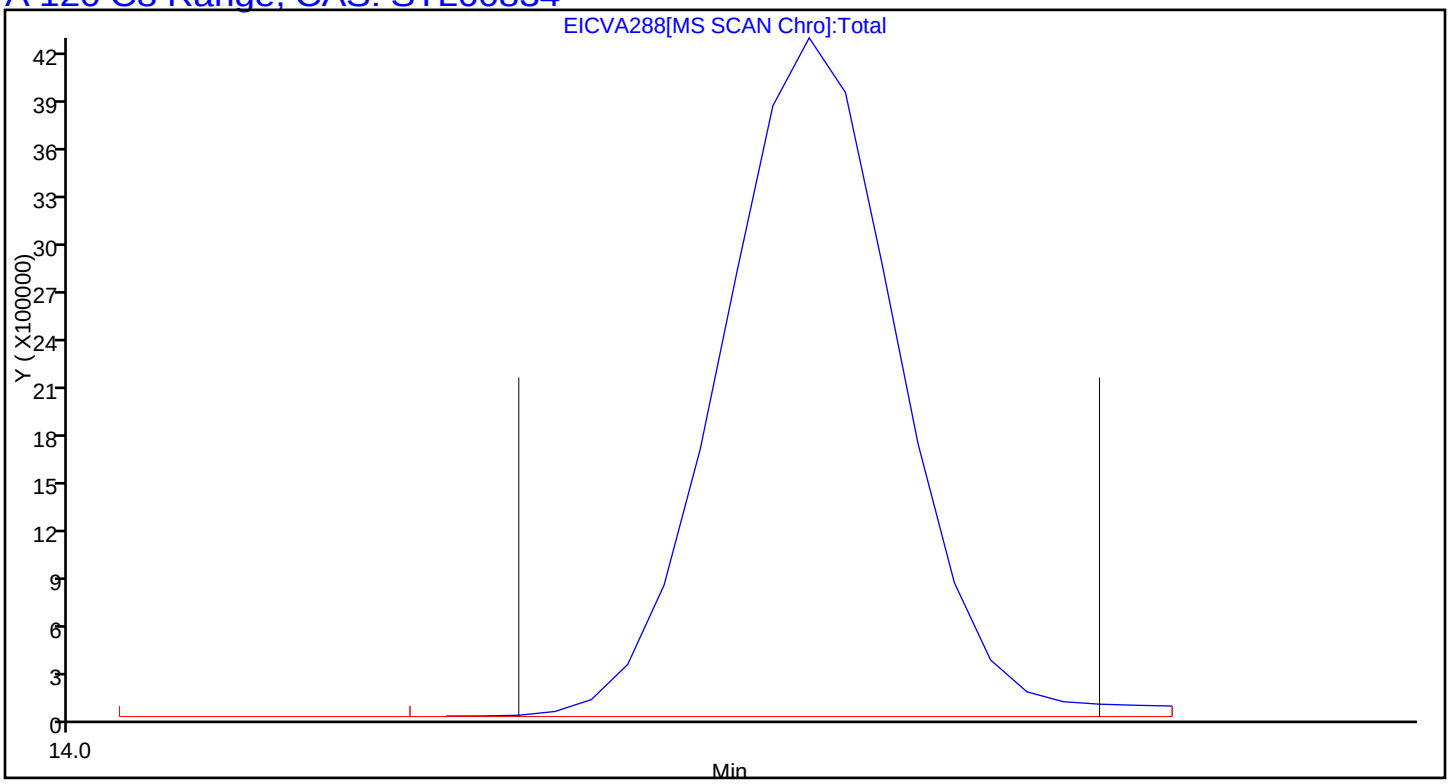


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

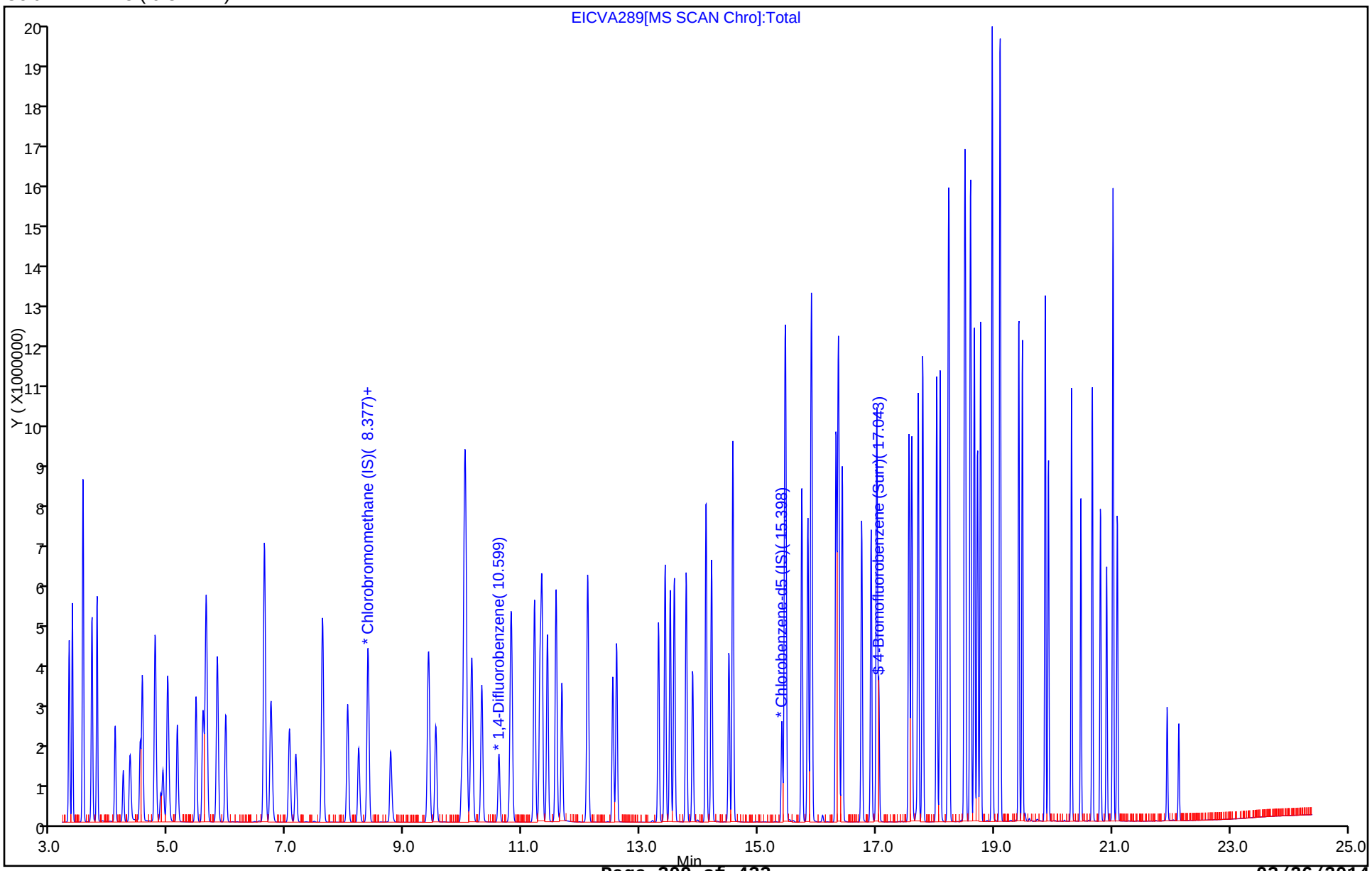
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

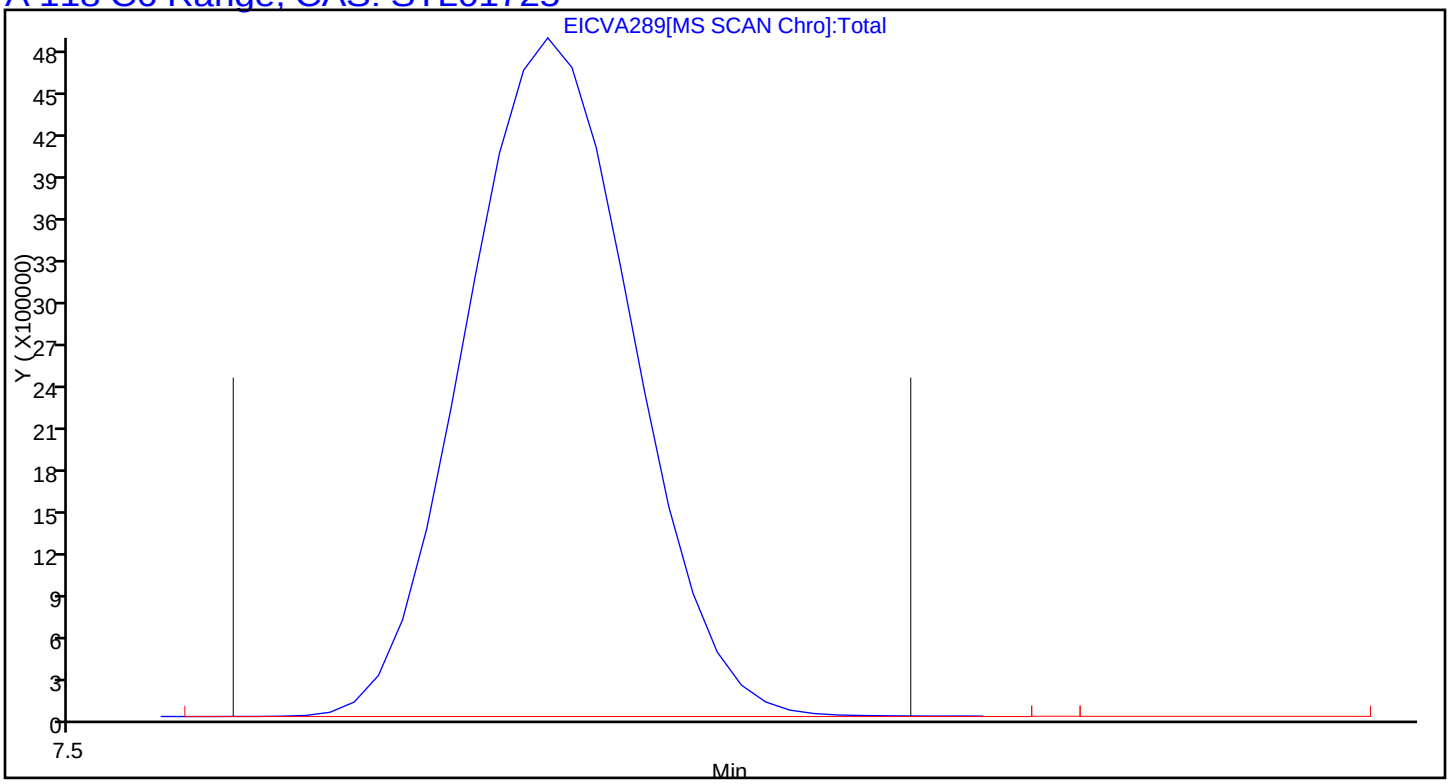


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

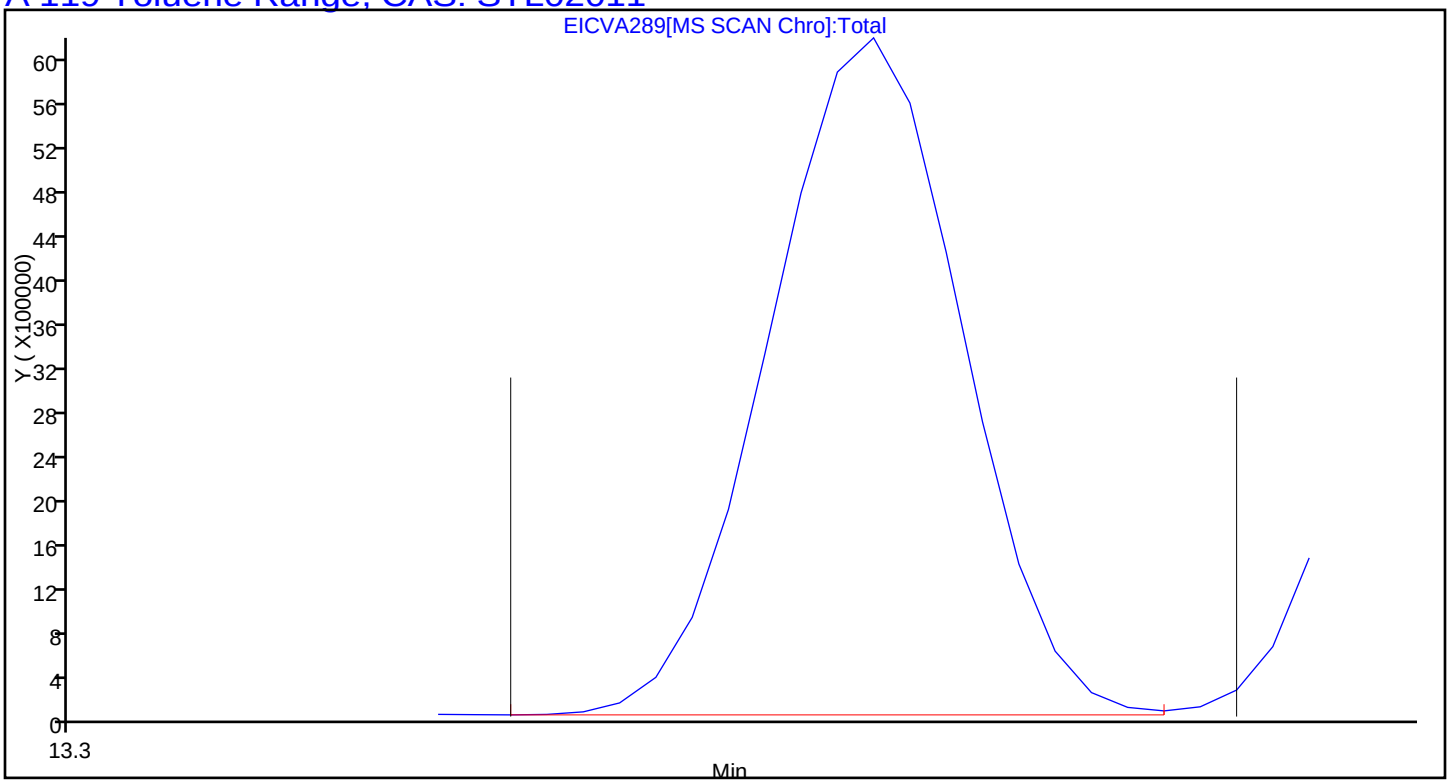


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

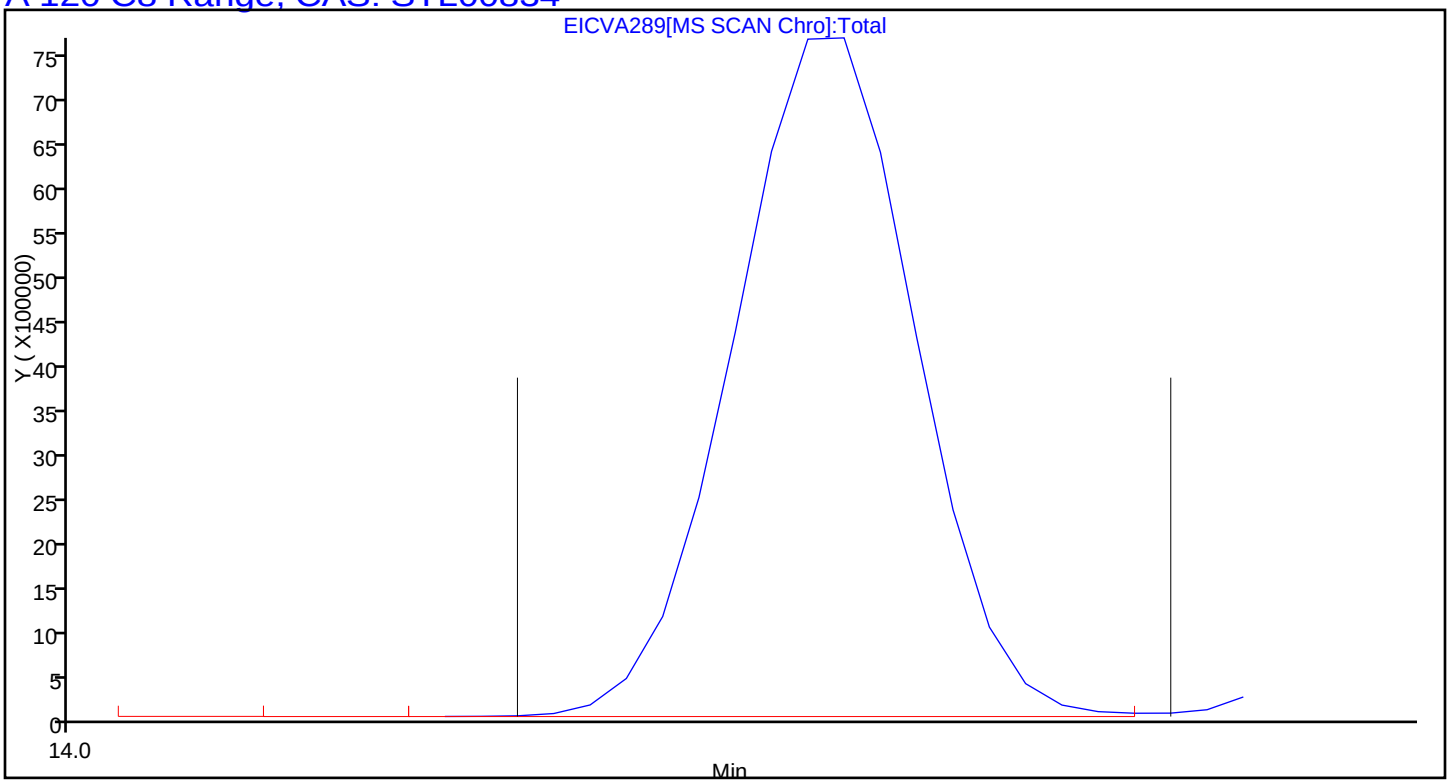


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

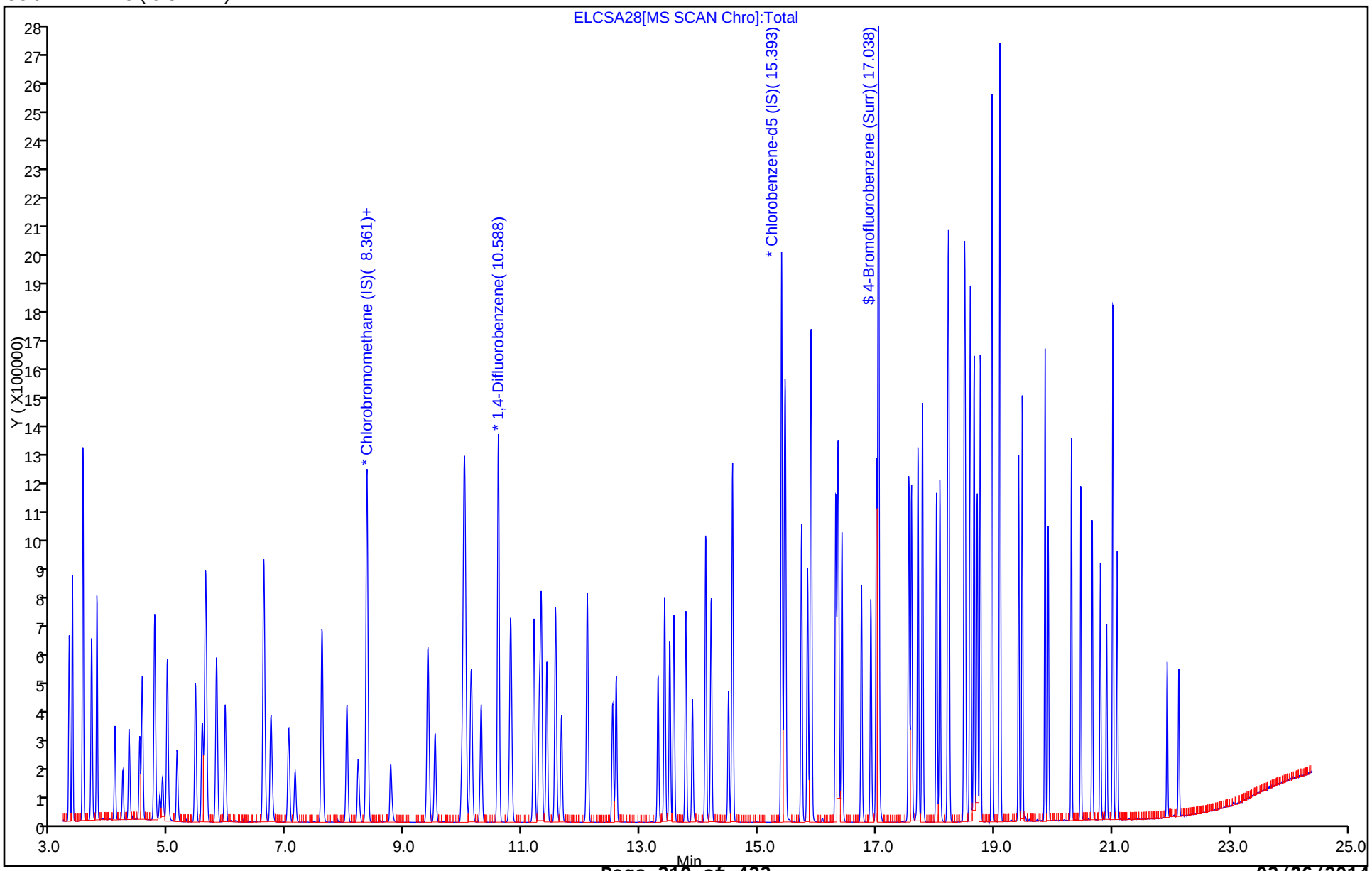
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

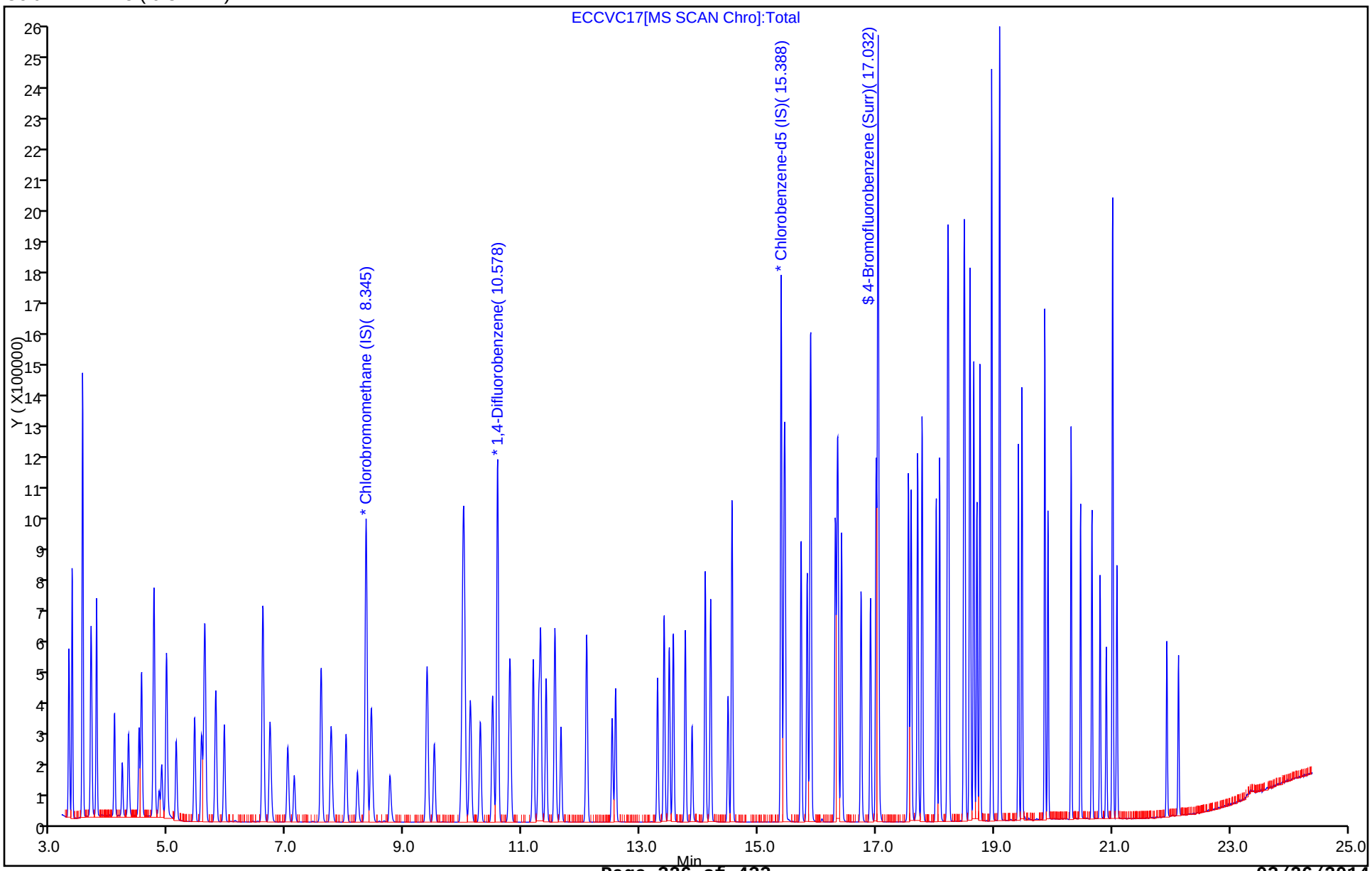
Report Date: 18-Mar-2014 11:58:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jan-2014 13:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E012814I,BFB,140-0000390-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jan-2014 13:09:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	30-Jan-2014 11:32:37		

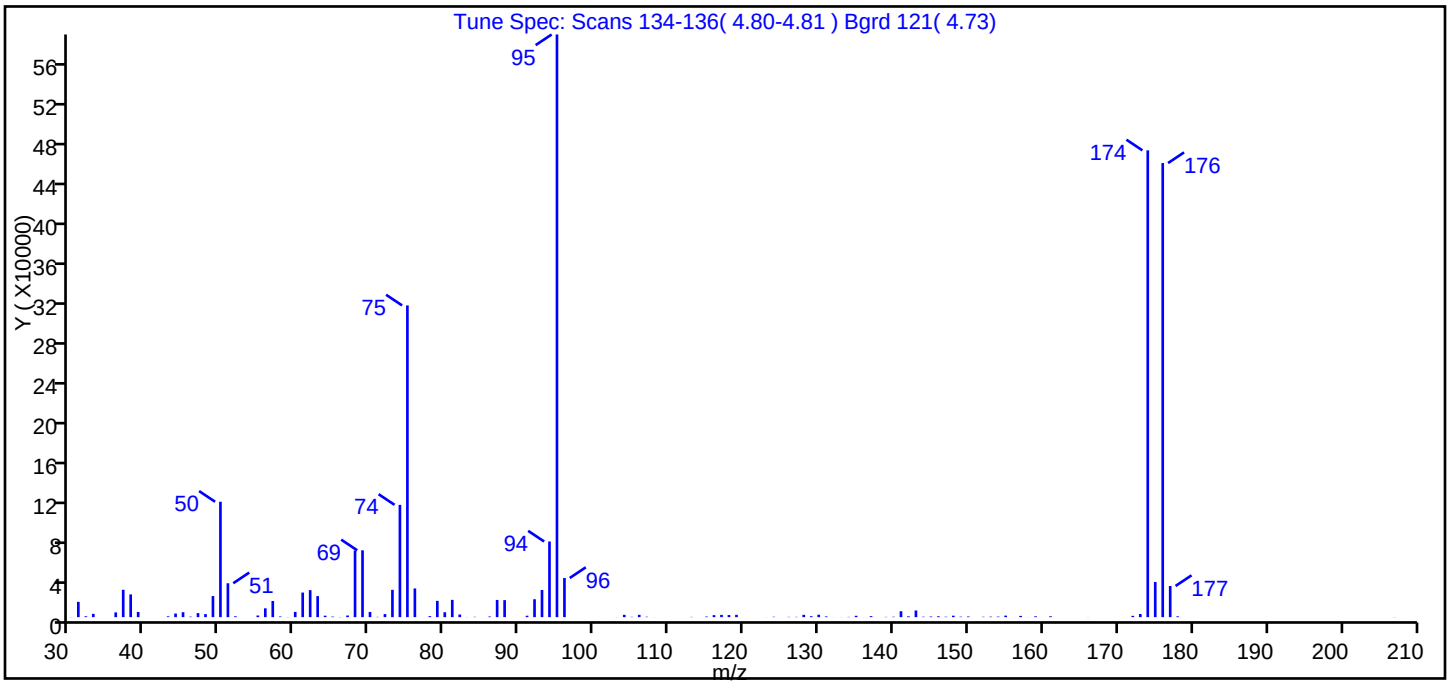
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

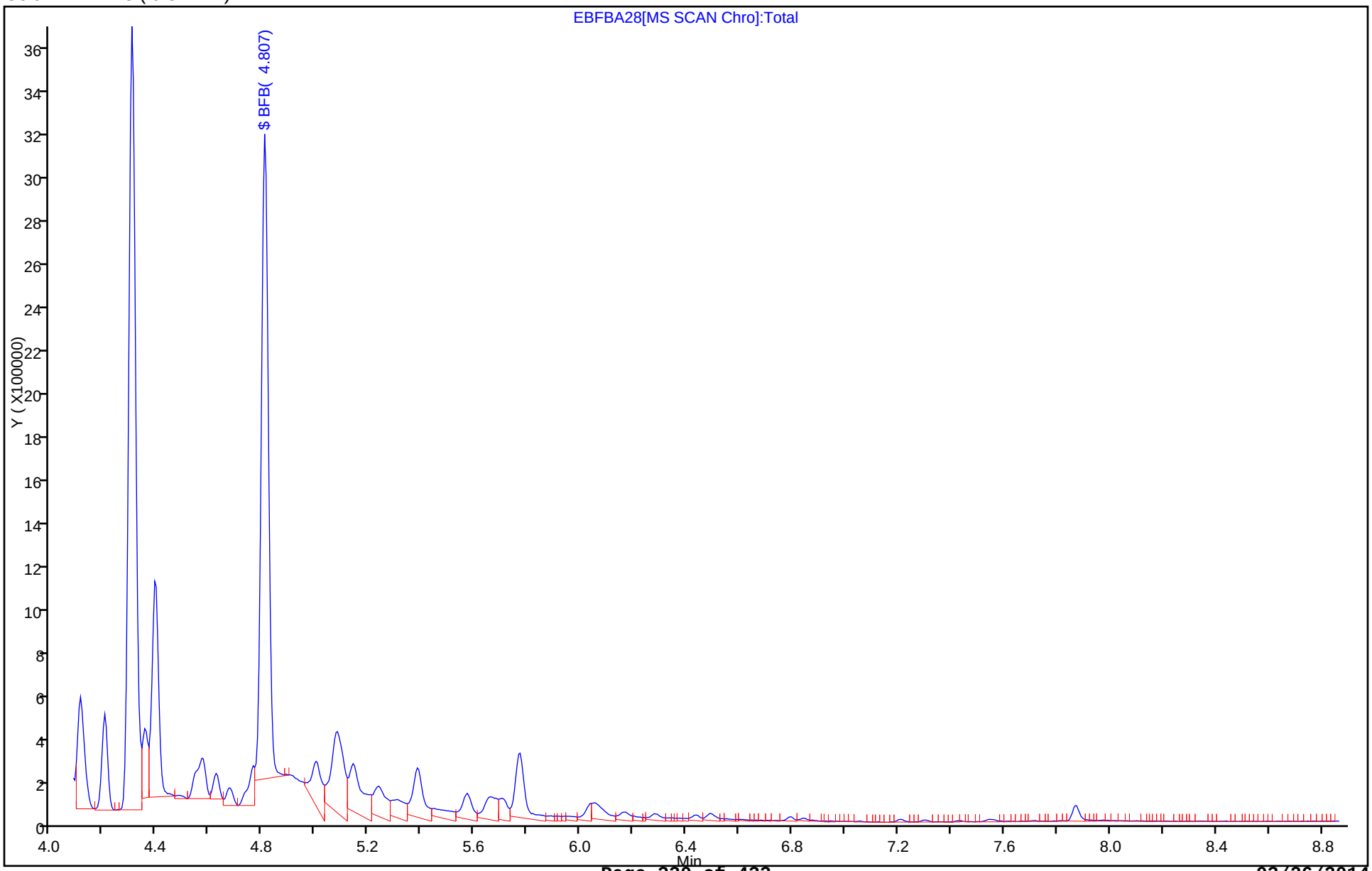
Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D

Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Mar-2014 13:39:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031714,BFB,,140-0000525-001				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 10:44:37	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 10:44:37		

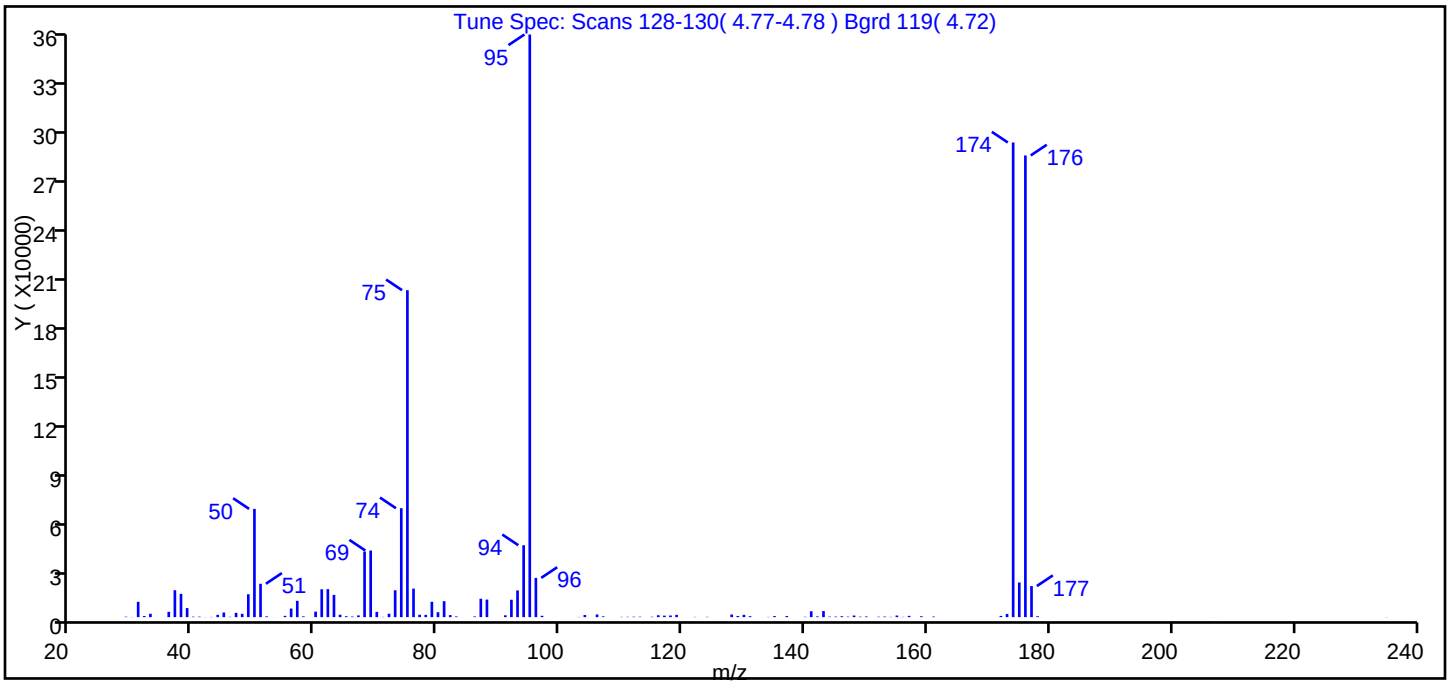
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.775	4.775	0.0	0	731051	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D
Injection Date: 17-Mar-2014 13:39:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	56.10
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	81.50
175	5.00 - 9.00% of mass 174	5.90 (7.30)
176	95.00 - 101.00% of mass 174	79.20 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D\ME_TO15.rslt\spectra.d
Injection Date: 17-Mar-2014 13:39:30
Spectrum: Tune Spec: Scans 128-130(4.77-4.78) Bgrd 119(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	288	61.00	17080	93.00	16384	141.00	3616
30.00	94	62.00	17152	94.00	44072	142.00	446
31.00	9393	63.00	13621	95.00	356992	143.00	3728
32.00	683	64.00	1487	96.00	24056	144.00	321
33.00	2068	65.00	566	97.00	825	145.00	341
36.00	3249	66.00	364	103.00	126	146.00	562
37.00	16504	67.00	1058	104.00	1314	147.00	294
38.00	14276	68.00	40192	106.00	1638	148.00	989
39.00	5550	69.00	40800	107.00	476	149.00	297
40.00	296	70.00	3218	110.00	179	150.00	416
41.00	308	71.00	155	111.00	217	152.00	252
42.00	63	72.00	2083	112.00	276	153.00	352
43.00	132	73.00	16464	113.00	274	154.00	171
44.00	1392	74.00	66744	115.00	246	155.00	984
45.00	2846	75.00	200320	116.00	1166	156.00	163
46.00	208	76.00	17480	117.00	918	157.00	790
47.00	2645	77.00	1474	118.00	1008	159.00	515
48.00	2044	78.00	1373	119.00	1387	161.00	357
49.00	14019	79.00	9410	122.00	150	172.00	756
50.00	66320	80.00	3013	124.00	185	173.00	1974
51.00	20448	81.00	9771	128.00	1613	174.00	290816
52.00	473	82.00	1271	129.00	687	175.00	21240
53.00	32	83.00	427	130.00	1407	176.00	282880
55.00	799	86.00	426	131.00	572	177.00	19048
56.00	5273	87.00	11266	134.00	139	178.00	569
57.00	9999	88.00	10762	135.00	664	207.00	25
58.00	471	91.00	1125	137.00	677	235.00	89
60.00	3399	92.00	10647	140.00	213		

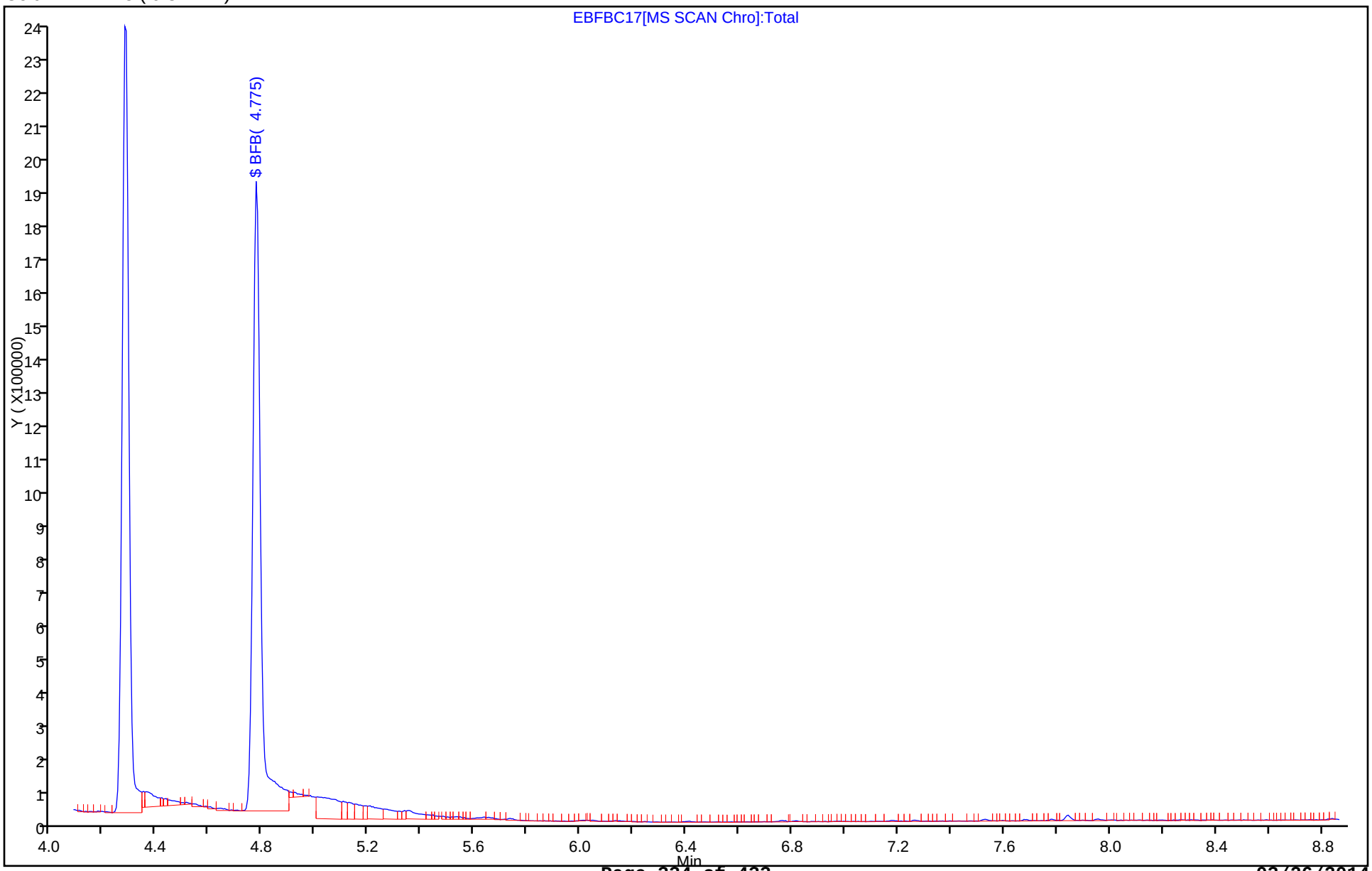
Report Date: 18-Mar-2014 10:44:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D

Injection Date:	17-Mar-2014 13:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Mar-2014 17:11:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB200				
Misc. Info.:	E031714,TO155,,140-0000525-005				
Operator ID:	060487	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 11:59:04	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 11:59:04		

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	189632	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	941923	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	834864	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	749693	4.10	

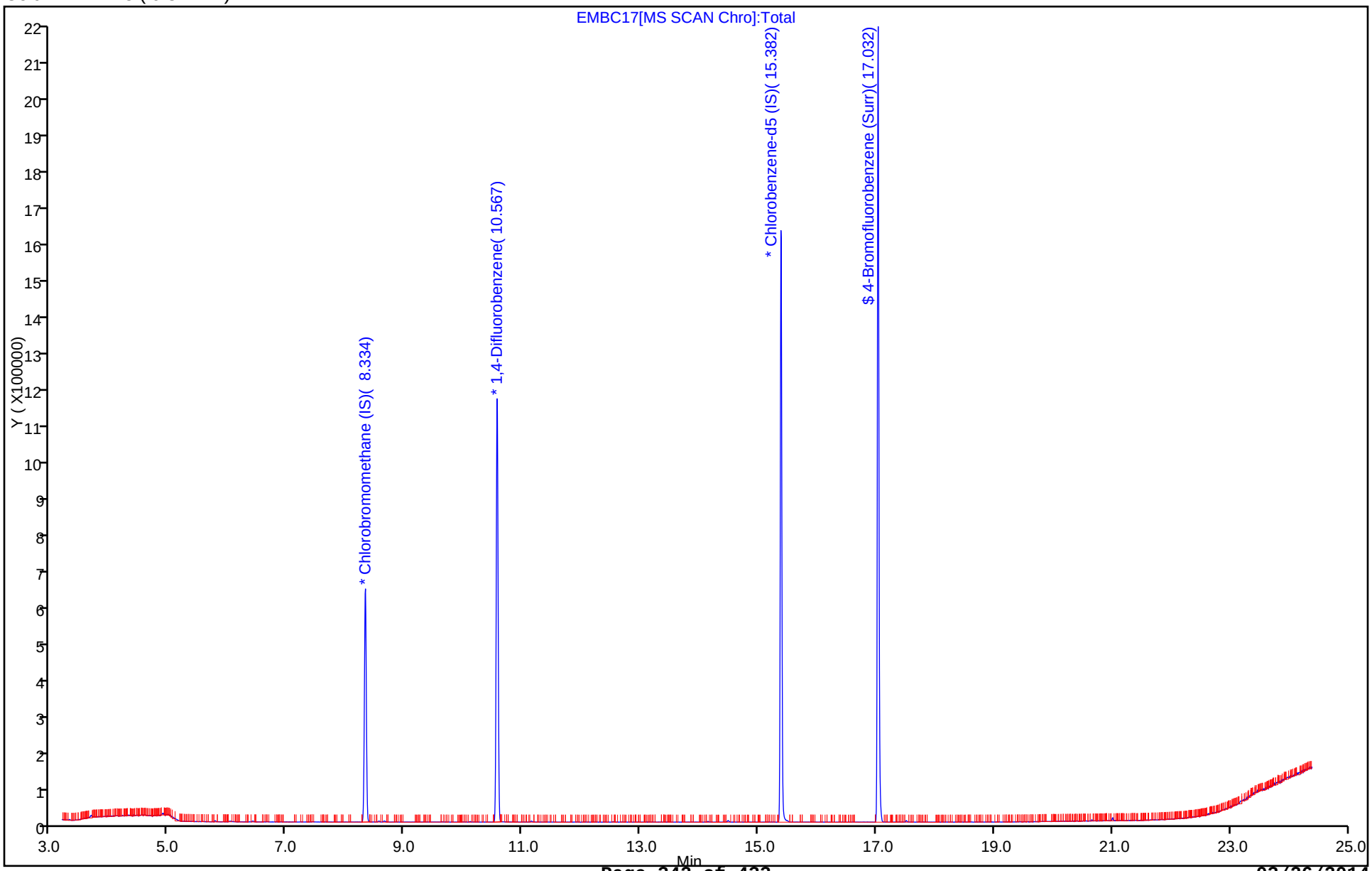
Report Date: 18-Mar-2014 11:59:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D

Injection Date:	17-Mar-2014 17:11:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.28		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.22		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.11		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.03		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.07		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.21		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.40		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.19		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.65		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.33		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.31		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.97		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.24		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.43		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.33		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.31		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.83		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.85		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.95		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.63		0.40	0.080
591-78-6	2-Hexanone	100.20	1.77		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.40		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.79		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.81		0.20	0.018
67-64-1	Acetone	58.08	1.98	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.54		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.31		0.080	0.018
75-25-2	Bromoform	252.75	2.57		0.080	0.019
74-83-9	Bromomethane	94.94	2.64		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.07		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.43		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.16		0.080	0.020
75-00-3	Chloroethane	64.52	2.65		0.080	0.014
67-66-3	Chloroform	119.38	2.25		0.080	0.015
74-87-3	Chloromethane	50.49	2.20		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.99		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.19		0.080	0.030
110-82-7	Cyclohexane	84.16	1.99		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.40		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.53		0.080	0.027
64-17-5	Ethanol	46.07	10.8		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.25		0.080	0.027
142-82-5	Heptane	100.21	2.03		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.42		0.40	0.031
110-54-3	Hexane	86.17	1.87		0.20	0.013
496-11-7	Indane	118.18	2.34		0.080	0.080
95-13-6	Indene	116.16	2.44		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	2.28		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.23		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.09		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.73		0.080	0.048
91-20-3	Naphthalene	128.17	2.51		0.20	0.036
95-47-6	o-Xylene	106.17	2.27		0.080	0.024
115-07-1	Propene	42.08	1.83		0.20	0.031
100-42-5	Styrene	104.15	2.32		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.11		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.65		0.40	0.025
110-02-1	Thiophene	84.14	2.04		0.080	0.080
108-88-3	Toluene	92.14	2.12		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.05		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.23		0.080	0.019
79-01-6	Trichloroethene	131.39	1.99		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.69		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.52		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

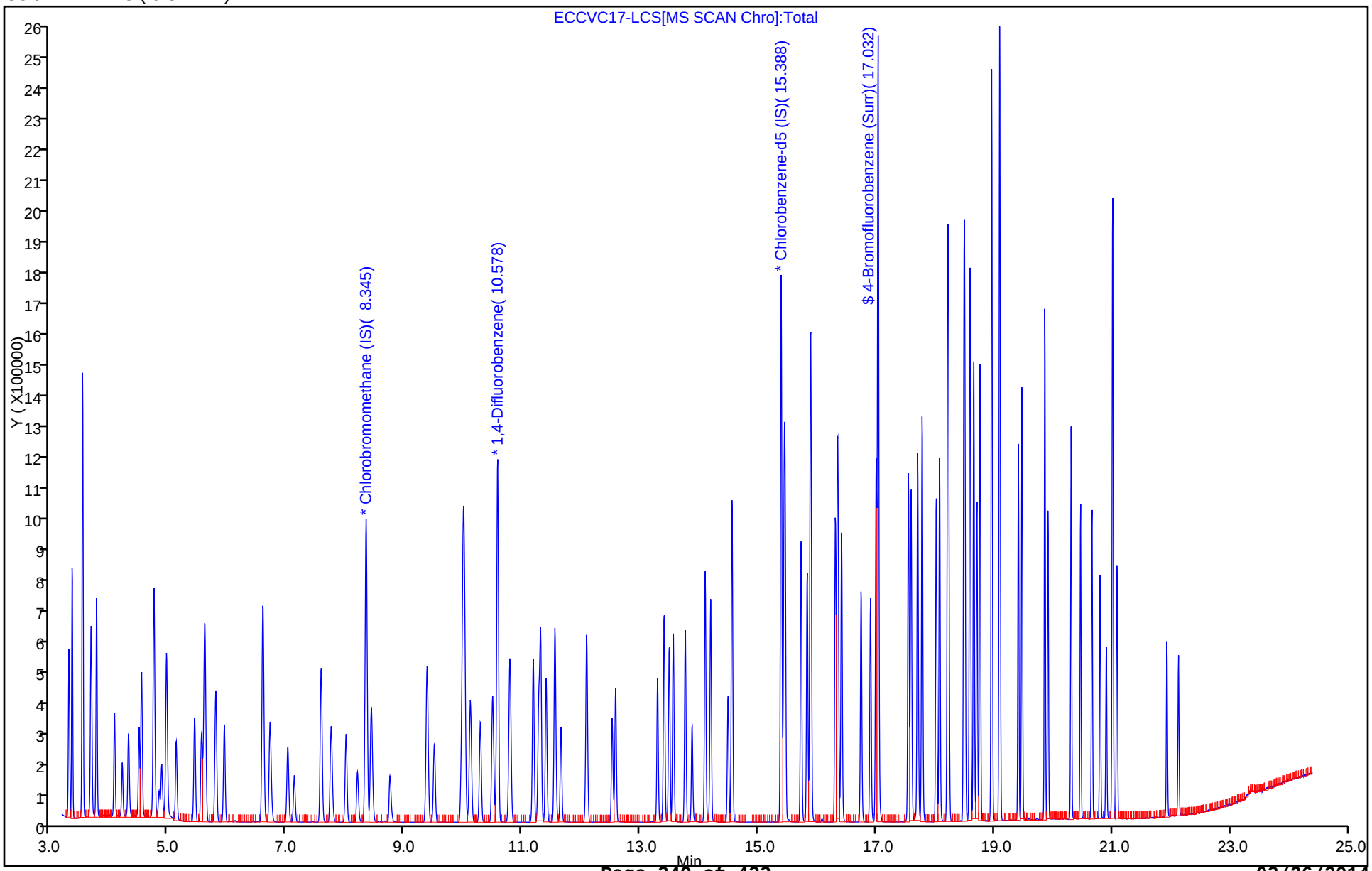
Report Date: 18-Mar-2014 11:58:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Instrument ID: ME Start Date: 03/17/2014 13:39

Analysis Batch Number: 967 End Date: 03/18/2014 09:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-967/1		03/17/2014 13:39	1	EBFBC17.D	RTX-5 0.32(mm)
CCVIS 140-967/2		03/17/2014 14:10	1	ECCVC17.D	RTX-5 0.32(mm)
LCS 140-967/1002		03/17/2014 14:10	1	ECCVC17-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 16:25	1		RTX-5 0.32(mm)
MB 140-967/5		03/17/2014 17:11	1	EMBC17.D	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 17:56	8836.73		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 18:41	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 19:27	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:13	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:58	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 21:44	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 22:29	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 23:15	1		RTX-5 0.32(mm)
140-1051-1	PCV-IA1-B12	03/18/2014 00:00	1	EC17POS109.D	RTX-5 0.32(mm)
140-1051-2	PCV-IA2-B12	03/18/2014 00:45	1	EC17POS110.D	RTX-5 0.32(mm)
140-1051-3	PCV-IA3-B12	03/18/2014 01:30	1	EC17POS111.D	RTX-5 0.32(mm)
140-1051-4	PCV-AMB-5	03/18/2014 02:15	1	EC17POS112.D	RTX-5 0.32(mm)
140-1051-5	PCV-AMB-6	03/18/2014 03:01	1	EC17POS113.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:47	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 04:33	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 05:18	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:03	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:49	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 07:35	1		RTX-5 0.32(mm)
140-1051-2 DL	PCV-IA2-B12 DL	03/18/2014 08:20	1	EC17POS110R.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 09:06	1		RTX-5 0.32(mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D				
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1		
Client ID:	10812				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 11:40:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10812				
Misc. Info.:	E022514,TO155,,140-0000471-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 12:26:07	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 12:26:07		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	82	306294	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1507231	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	1337629	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1122589	3.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	92	18454	0.1033	

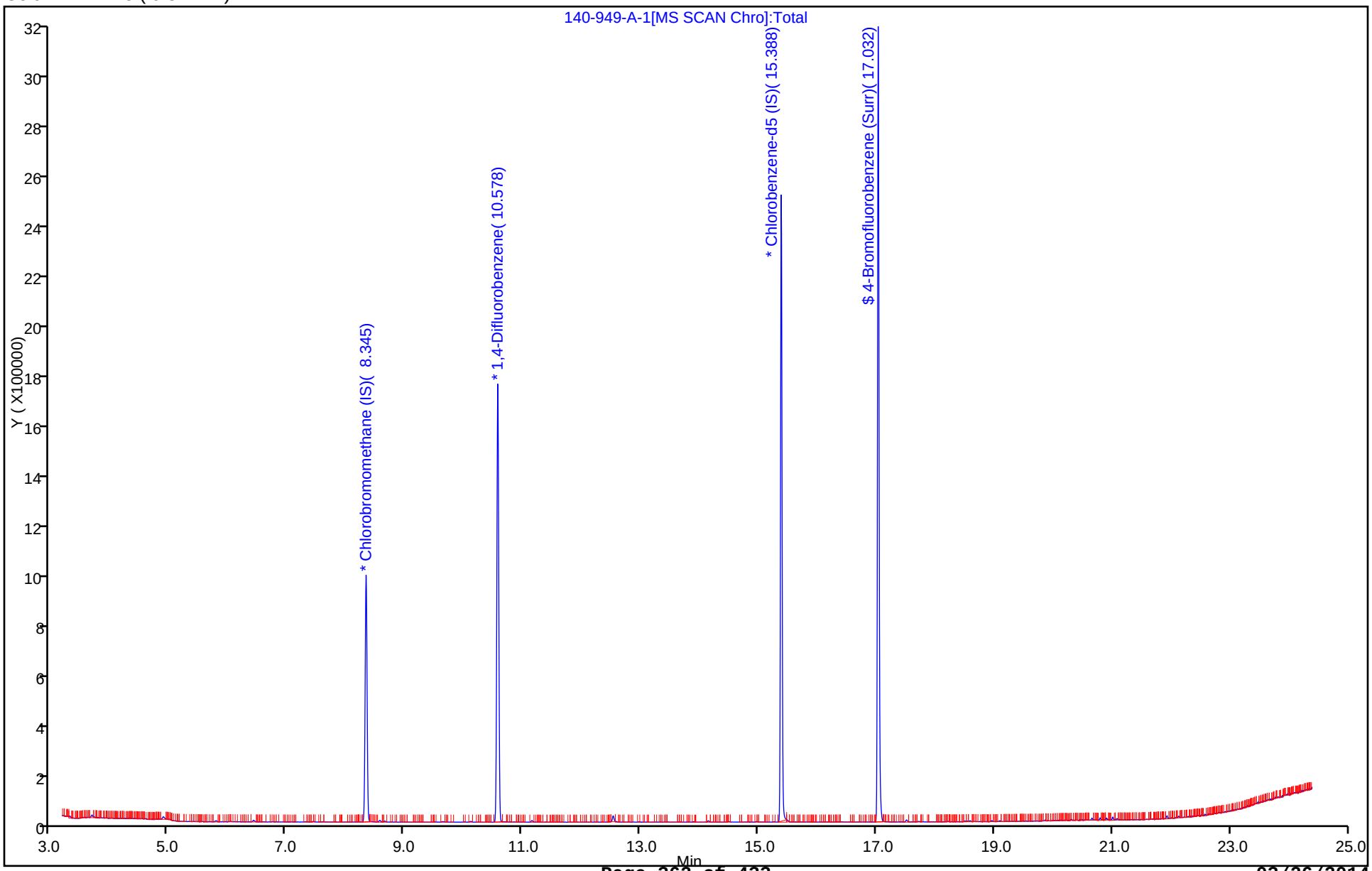
Report Date: 25-Feb-2014 12:26:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D

Injection Date:	25-Feb-2014 11:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1	Worklist Smp#:	4
Client ID:	10812				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 Lab Sample ID: 140-949-2

Matrix: Air Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 Lab Sample ID: 140-949-2

Matrix: Air Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D				
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2		
Client ID:	10313				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 12:26:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10313				
Misc. Info.:	E022514,TO155,,140-0000471-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 13:03:34	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 13:03:34		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	294774	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1499739	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1288944	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1101247	3.90	

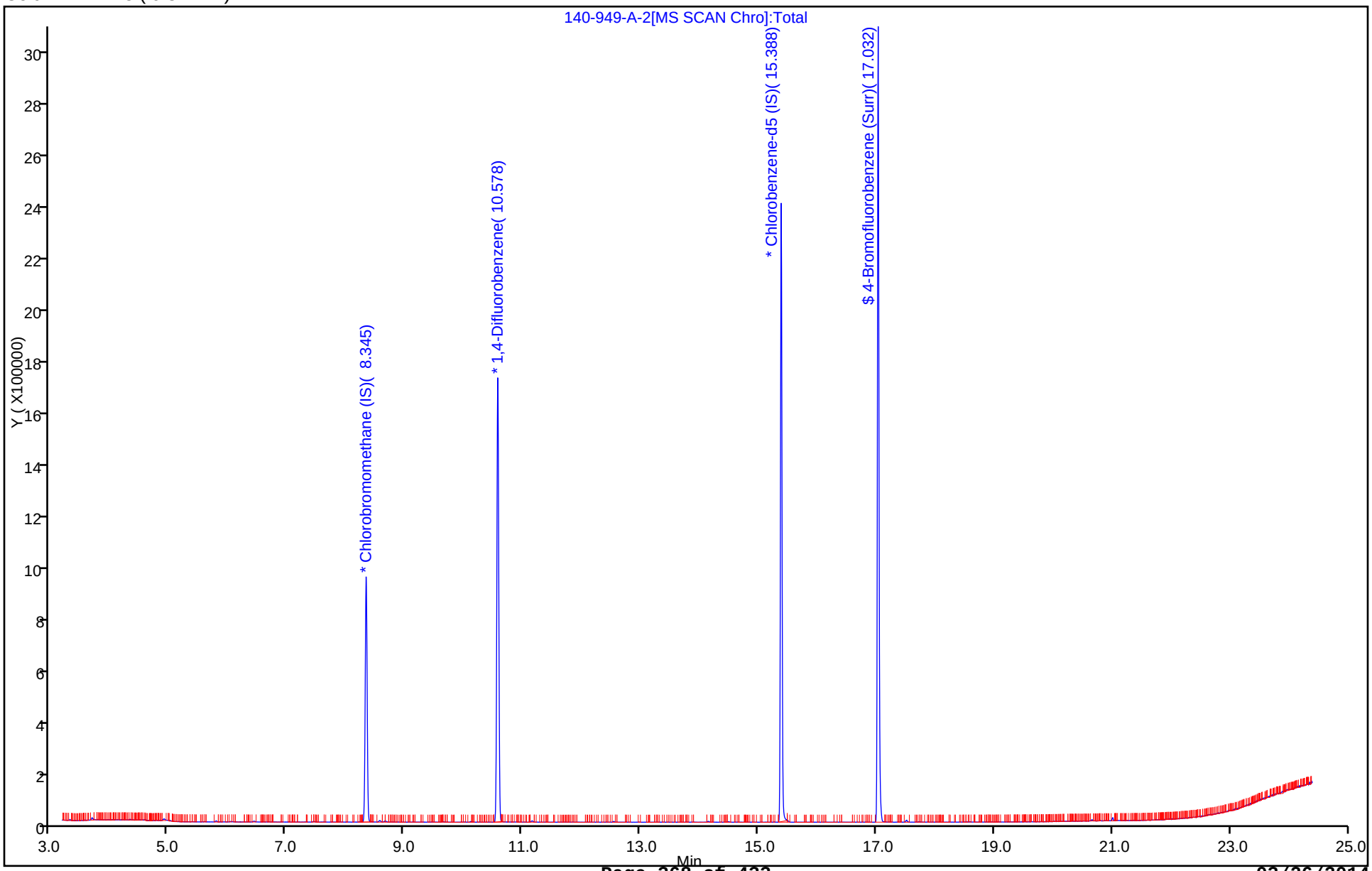
Report Date: 25-Feb-2014 13:03:34 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D

Injection Date:	25-Feb-2014 12:26:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2	Worklist Smp#:	5
Client ID:	10313				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 Lab Sample ID: 140-949-4

Matrix: Air Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 Lab Sample ID: 140-949-4

Matrix: Air Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D				
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4		
Client ID:	11039				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 13:56:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11039				
Misc. Info.:	E022514,TO155,,140-0000471-007				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 07:27:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 07:27:53		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	264346	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1342143	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	95	1158094	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	984708	3.88	

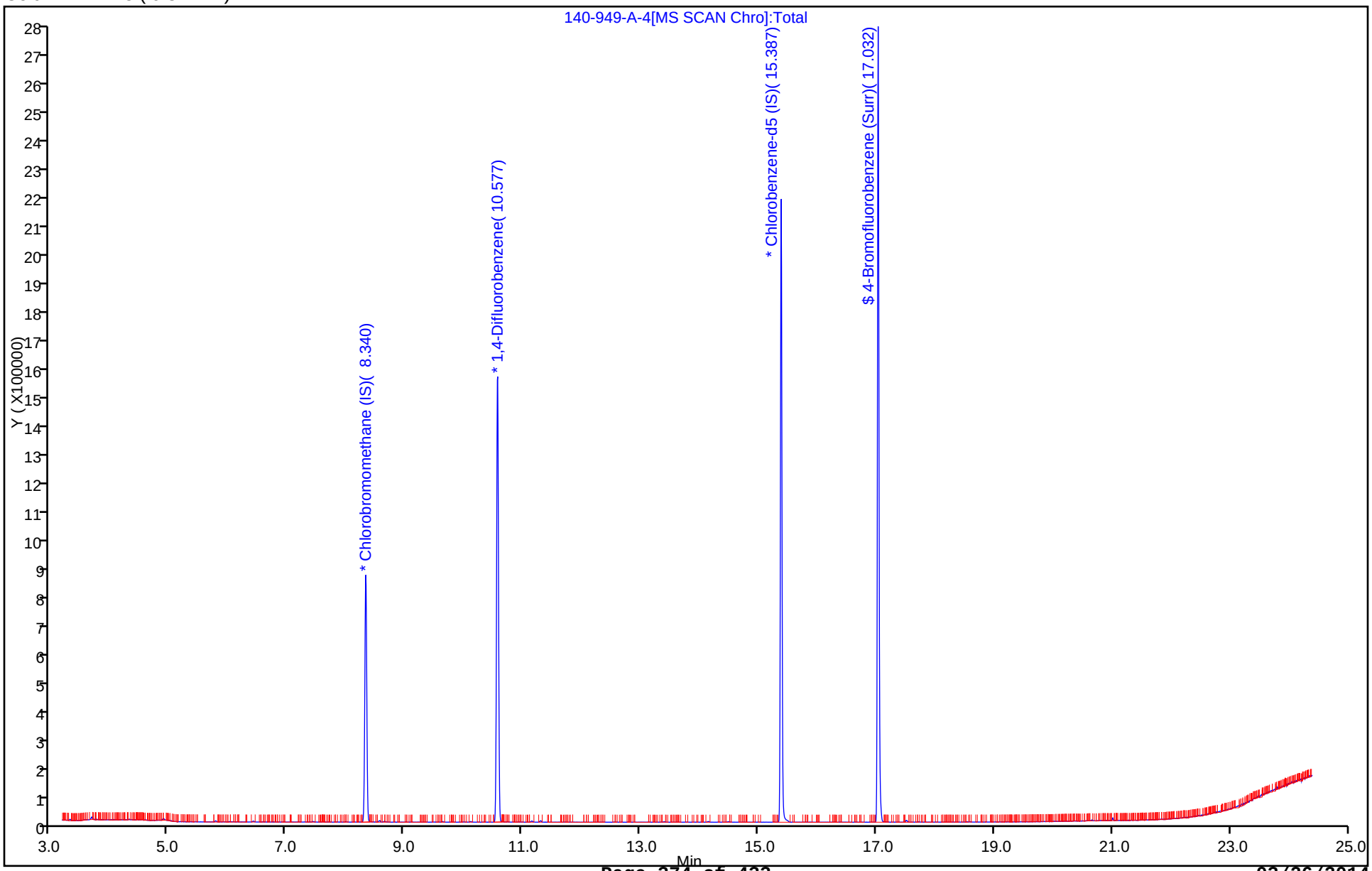
Report Date: 26-Feb-2014 07:27:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D

Injection Date:	25-Feb-2014 13:56:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4	Worklist Smp#:	7
Client ID:	11039				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 | Lab Sample ID: 140-949-8

Matrix: Air | Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D				
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8		
Client ID:	10422				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 18:06:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10422				
Misc. Info.:	E022514,TO155,,140-0000471-011				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:14:17	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:14:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	255164	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1319915	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1149179	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	1013272	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	89	18325	0.1171	

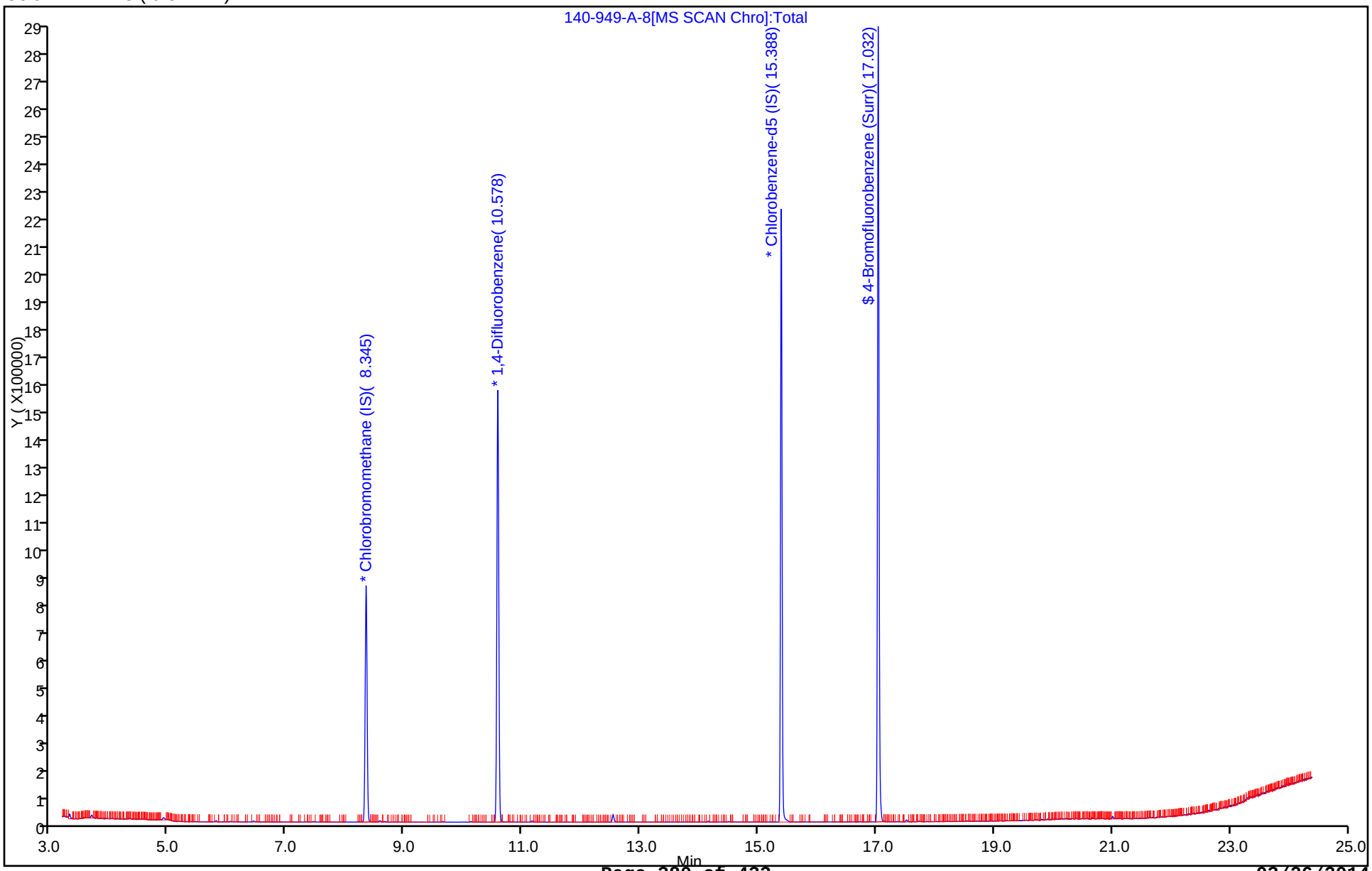
Report Date: 26-Feb-2014 08:14:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D

Injection Date:	25-Feb-2014 18:06:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8	Worklist Smp#:	11
Client ID:	10422				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 Lab Sample ID: 140-949-10

Matrix: Air Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 Lab Sample ID: 140-949-10

Matrix: Air Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D
Lims ID: 140-949-A-10 Lab Sample ID: 140-949-10
Client ID: 10001
Sample Type: Client
Inject. Date: 25-Feb-2014 19:37:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10001
Misc. Info.: E022514,TO155,,140-0000471-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:16:06 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	247450	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1268499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1117715	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	993164	4.06	

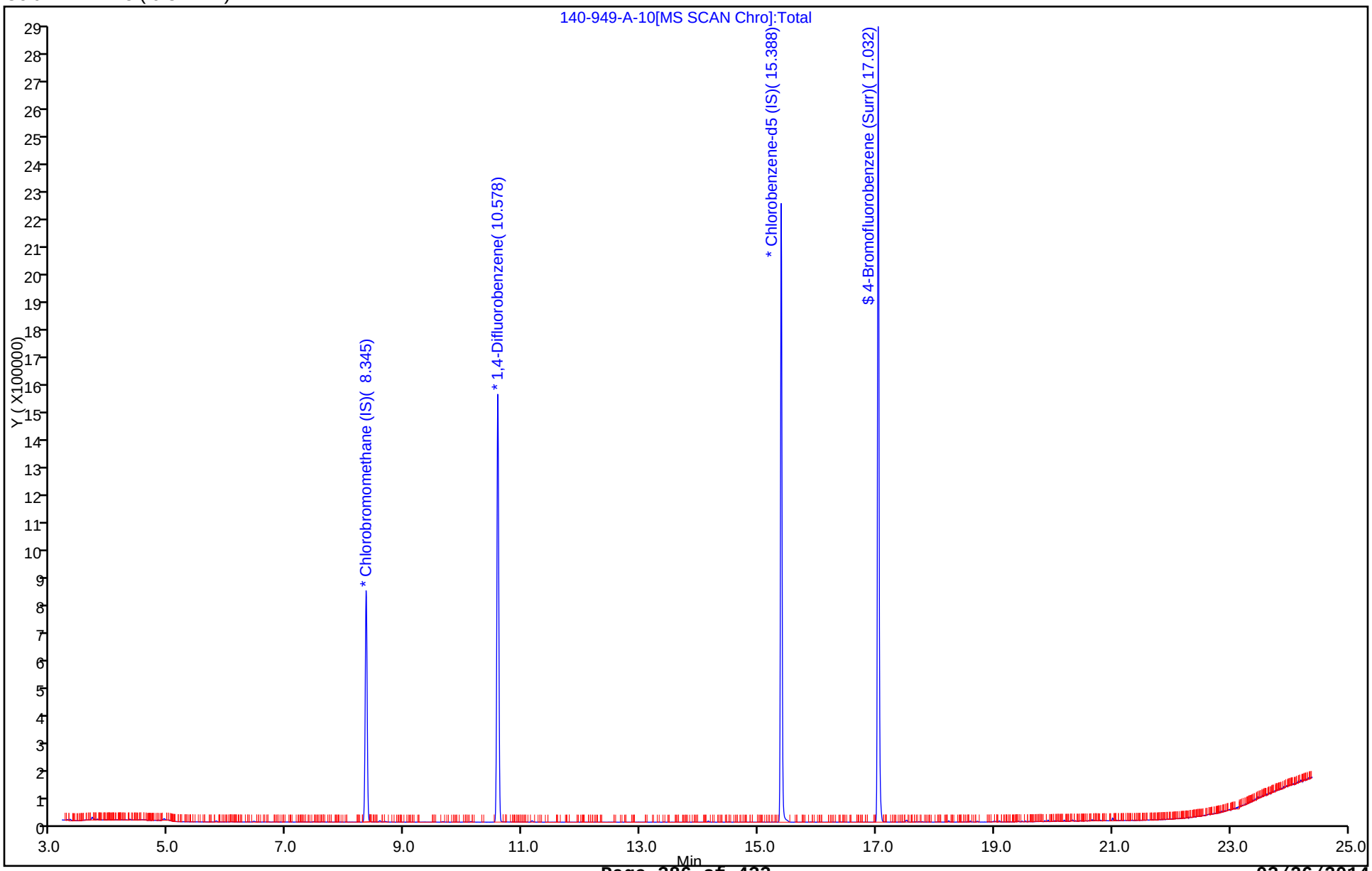
Report Date: 26-Feb-2014 08:16:08 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D

Injection Date:	25-Feb-2014 19:37:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-10	Lab Sample ID:	140-949-10	Worklist Smp#:	13
Client ID:	10001				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	0.22		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 Lab Sample ID: 140-949-11

Matrix: Air Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 Lab Sample ID: 140-949-11

Matrix: Air Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D				
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11		
Client ID:	10130				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 20:23:30	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10130				
Misc. Info.:	E022514,TO155,,140-0000471-014				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:16:25	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:16:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	245700	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1254222	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1098538	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	966120	4.02	
59 1,4-Dioxane	88	11.586	11.564	0.022	84	7320	0.2185	

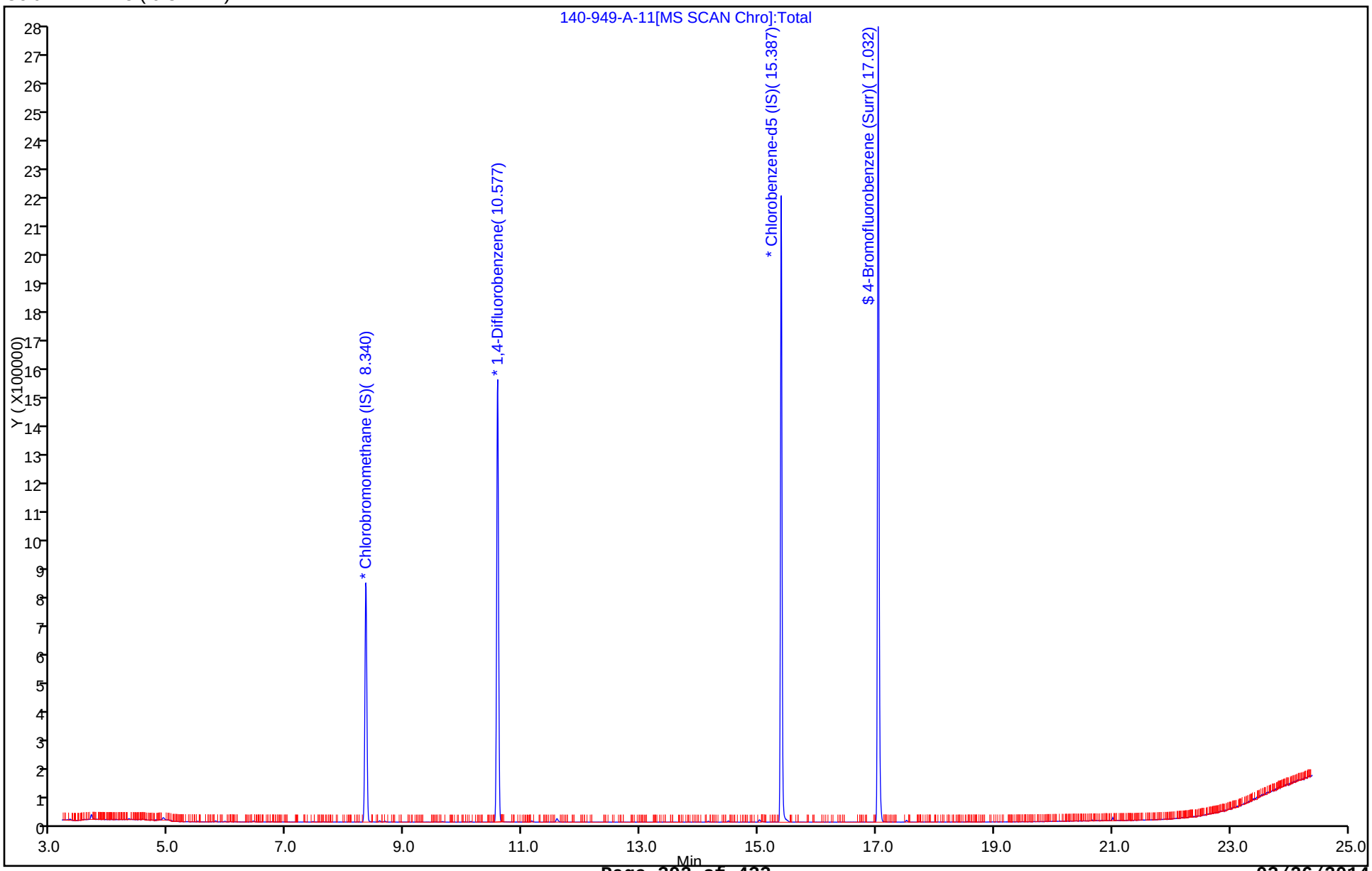
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11	Worklist Smp#:	14
Client ID:	10130				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



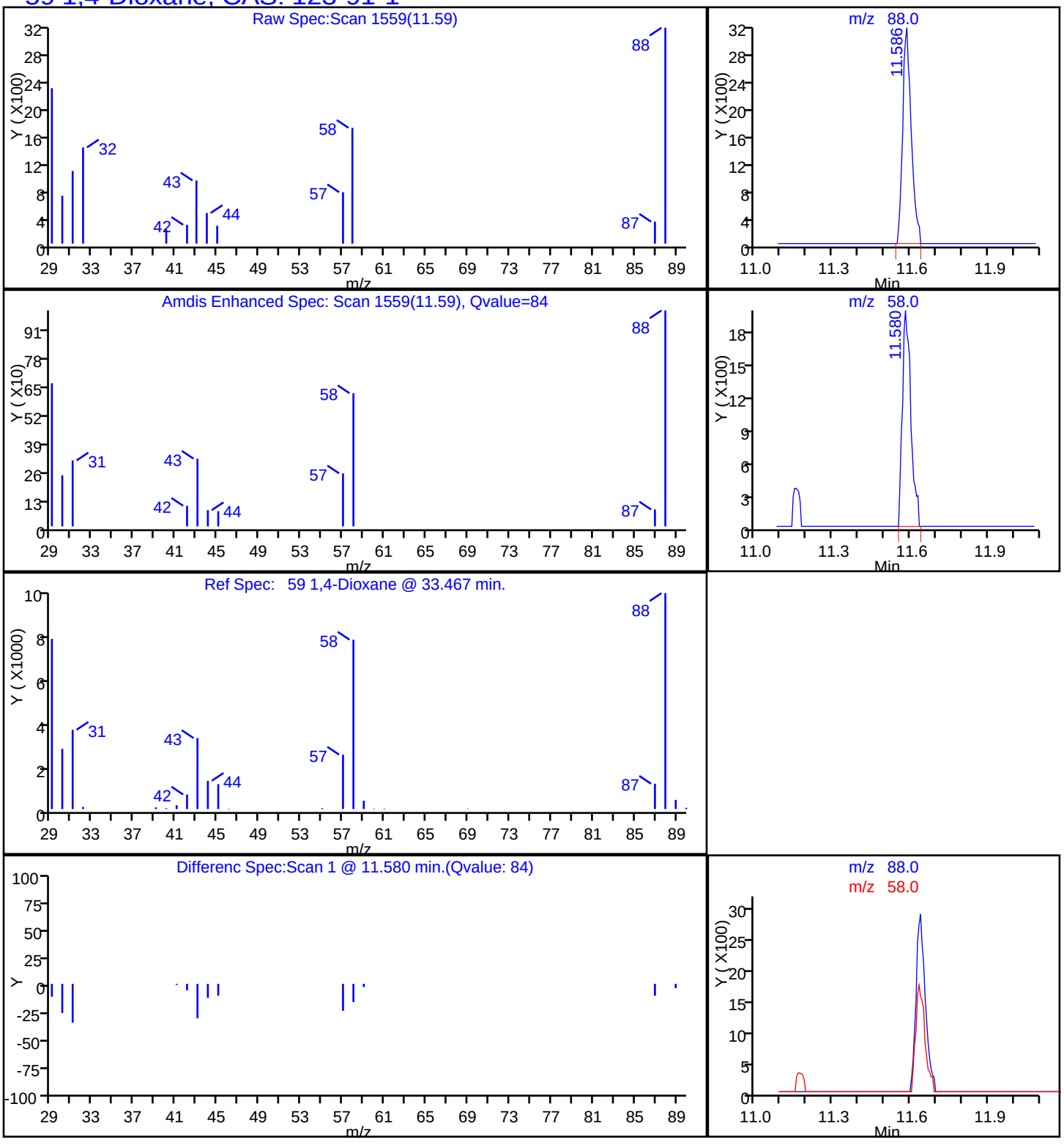
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME		
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11		
Client ID:	10130				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

59 1,4-Dioxane, CAS: 123-91-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 Lab Sample ID: 140-949-12

Matrix: Air Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D
Lims ID: 140-949-A-12 Lab Sample ID: 140-949-12
Client ID: 10711
Sample Type: Client
Inject. Date: 25-Feb-2014 21:09:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10711
Misc. Info.: E022514,TO155,,140-0000471-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:16:51 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	239168	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1193974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	94	1063904	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940008	4.03	
33 Carbon disulfide	76	5.951	5.946	0.005	97	14820	0.0599	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	93	21418	0.1514	

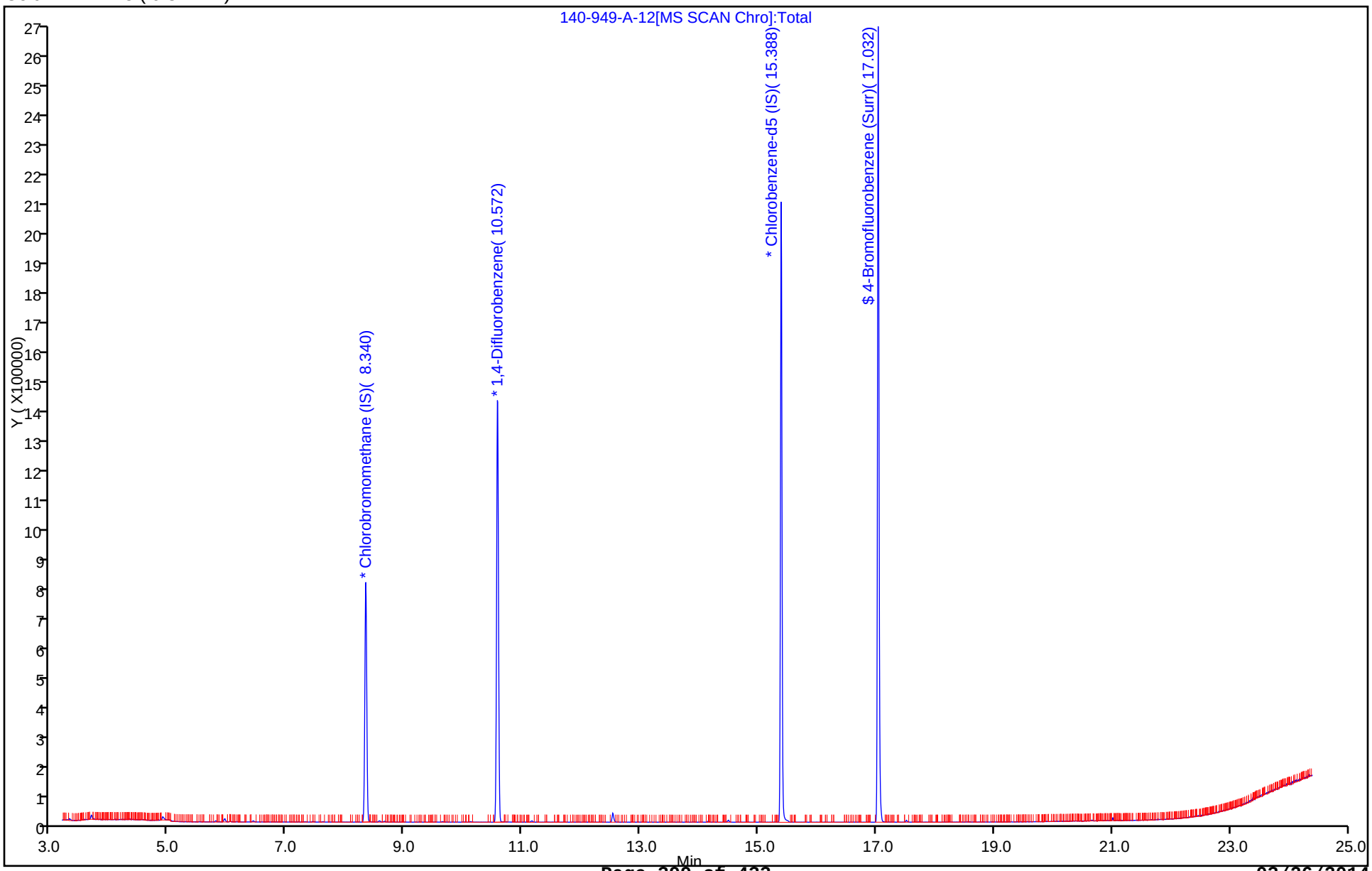
Report Date: 26-Feb-2014 08:16:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D

Injection Date:	25-Feb-2014 21:09:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-12	Lab Sample ID:	140-949-12	Worklist Smp#:	15
Client ID:	10711				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 Lab Sample ID: 140-949-13

Matrix: Air Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D				
Lims ID:	140-949-A-13	Lab Sample ID:	140-949-13		
Client ID:	10536				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 21:54:30	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10536				
Misc. Info.:	E022514,TO155,,140-0000471-016				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:17:10	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:17:10		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	223080	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1117429	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	93	1027674	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	920341	4.09	
9 Chloromethane	52	3.540	3.530	0.010	73	1932	0.0981	

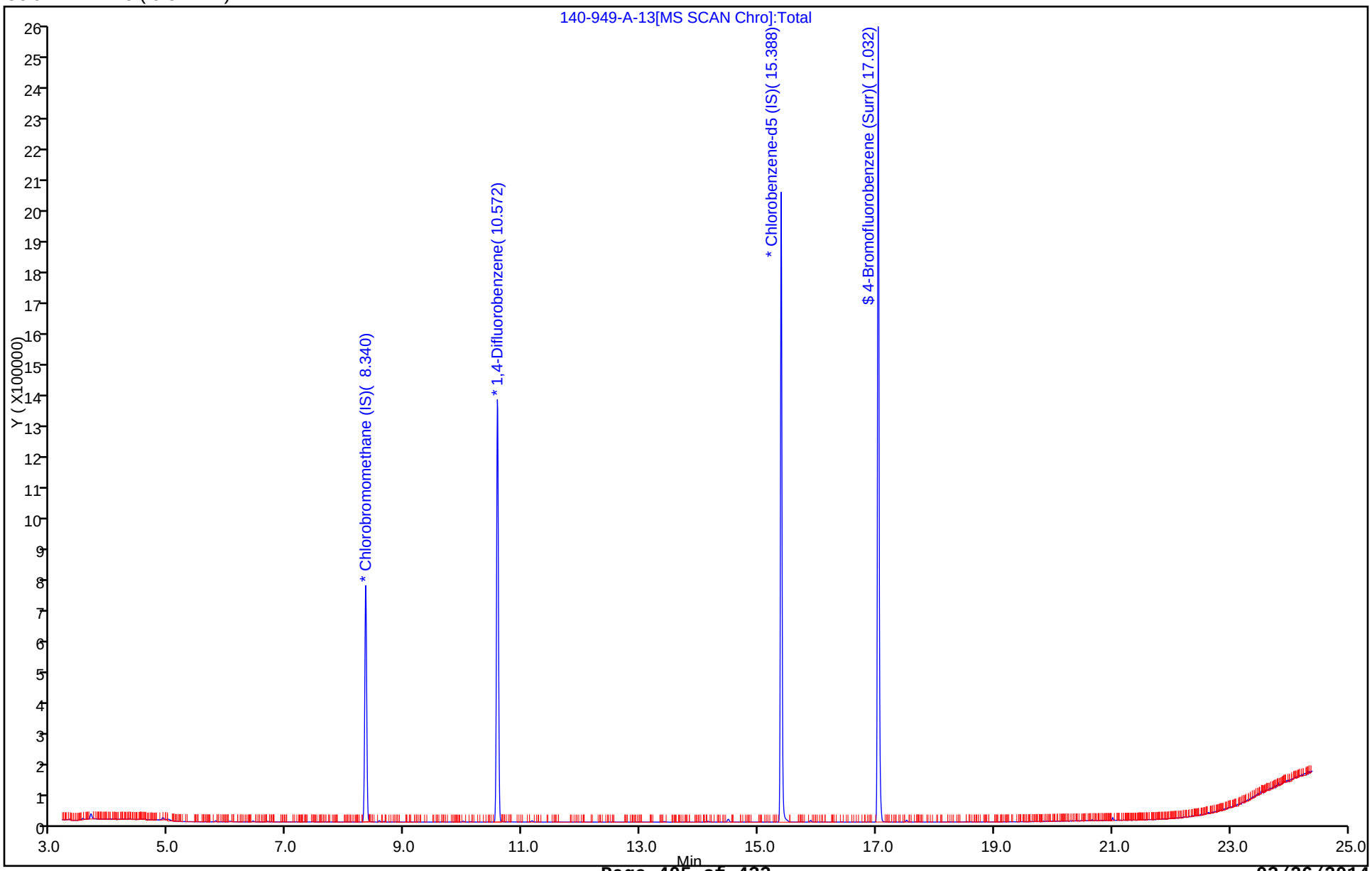
Report Date: 26-Feb-2014 08:17:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D

Injection Date:	25-Feb-2014 21:54:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-13	Lab Sample ID:	140-949-13	Worklist Smp#:	16
Client ID:	10536				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D				
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14		
Client ID:	10729				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 22:40:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10729				
Misc. Info.:	E022514,TO155,,140-0000471-017				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:17:32	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:17:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	238652	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1191848	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1067633	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949012	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	75	4783	0.0339	

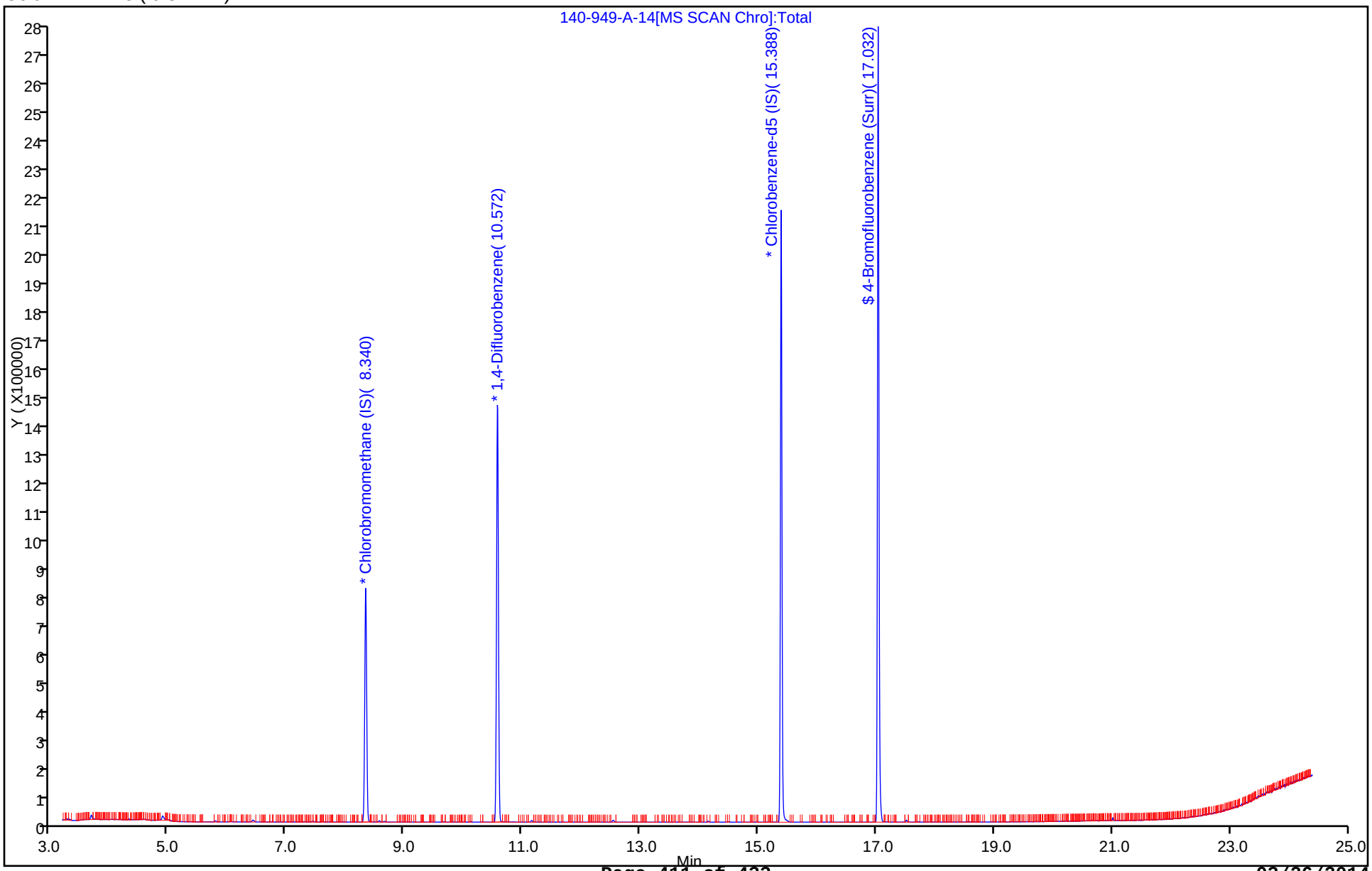
Report Date: 26-Feb-2014 08:19:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D

Injection Date:	25-Feb-2014 22:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14	Worklist Smp#:	17
Client ID:	10729				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-953-1

SDG No.:

Client Sample ID: 10043 | Lab Sample ID: 140-953-3

Matrix: Air | Lab File ID: 140-953-a-3R.D

Analysis Method: TO 15 LL | Date Collected: 02/25/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 09:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-953-1

SDG No.:

Client Sample ID: 10043 | Lab Sample ID: 140-953-3

Matrix: Air | Lab File ID: 140-953-a-3R.D

Analysis Method: TO 15 LL | Date Collected: 02/25/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 09:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-953-1

SDG No.:

Client Sample ID: 10043 | Lab Sample ID: 140-953-3

Matrix: Air | Lab File ID: 140-953-a-3R.D

Analysis Method: TO 15 LL | Date Collected: 02/25/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 09:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-953-1

SDG No.:

Client Sample ID: 10043 Lab Sample ID: 140-953-3

Matrix: Air Lab File ID: 140-953-a-3R.D

Analysis Method: TO 15 LL Date Collected: 02/25/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/26/2014 09:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-953-a-3R.D				
Lims ID:	140-953-A-3	Lab Sample ID:	140-953-3		
Client ID:	10043				
Sample Type:	Client				
Inject. Date:	26-Feb-2014 09:11:30	ALS Bottle#:	7	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10043				
Misc. Info.:	E022514,TO155,,140-0000471-028				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 09:48:45	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 09:48:44		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	84	251853	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1265503	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	1106927	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	970405	4.00	
33 Carbon disulfide	76	5.951	5.946	0.005	87	5252	0.0201	

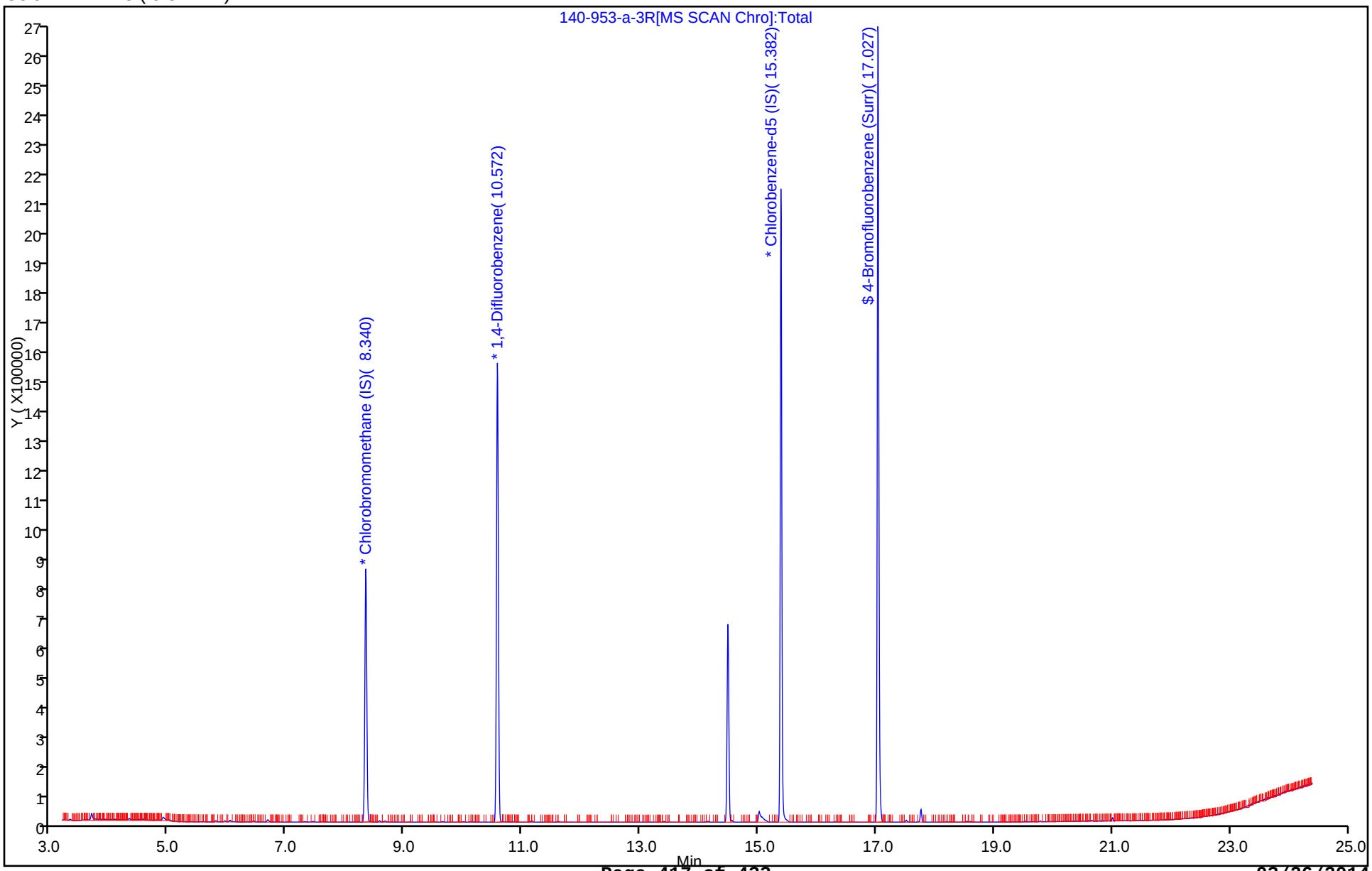
Report Date: 26-Feb-2014 09:48:45 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-953-a-3R.D

Injection Date:	26-Feb-2014 09:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-953-A-3	Lab Sample ID:	140-953-3	Worklist Smp#:	28
Client ID:	10043				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 | Lab Sample ID: 140-962-2

Matrix: Air | Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-962-1

SDG No.:

Client Sample ID: 34000495 Lab Sample ID: 140-962-2

Matrix: Air Lab File ID: 140-962-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) Date Analyzed: 02/26/2014 13:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 891 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-2.D
Lims ID: 140-962-A-2 Lab Sample ID: 140-962-2
Client ID: 34000495
Sample Type: Client
Inject. Date: 26-Feb-2014 13:31:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 34000495
Misc. Info.: J021914,TO15,,140-0000477-006
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140225-477.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 14:48:53 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: barlozhetskayaa Date: 26-Feb-2014 17:17:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.401	9.405	-0.004	92	203049	4.00	
* 2 1,4-Difluorobenzene	114	11.553	11.556	-0.003	95	973744	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.217	16.220	-0.003	94	817796	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.836	17.834	0.002	82	646856	3.96	
7 Propene	41	3.978	3.977	0.001	79	4063	0.0374	
13 Butane	43	4.522	4.520	0.002	85	16837	0.1456	
19 2-Methylbutane	43	5.415	5.418	-0.003	69	3317	0.0347	
31 Methylene Chloride	84	6.765	6.769	-0.004	72	6805	0.1105	
40 Hexane	56	8.653	8.657	-0.004	62	2035	0.0267	
62 4-Methyl-2-pentanone (MIBK)	43	13.398	13.391	0.007	86	12152	0.0735	

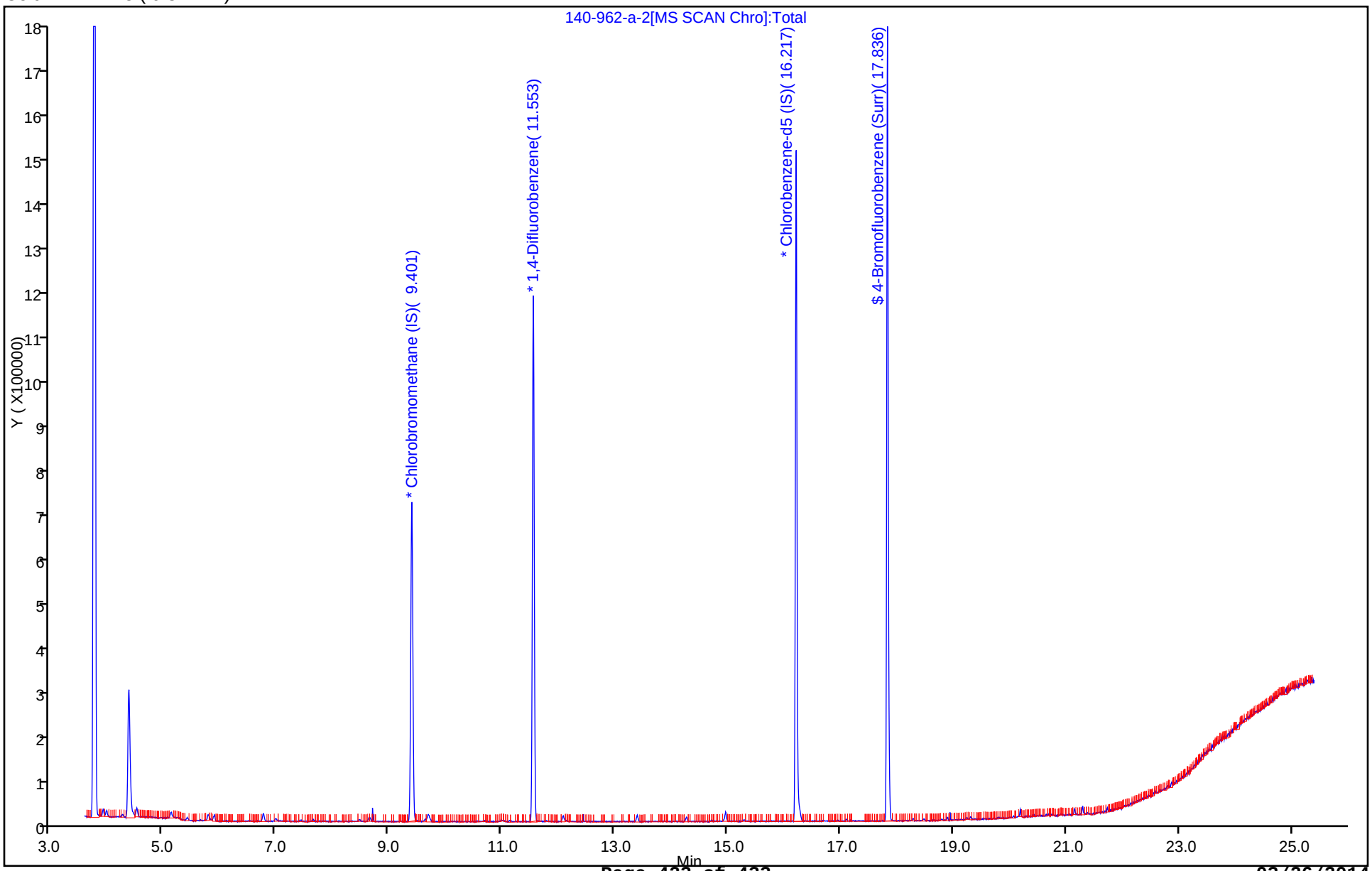
Report Date: 26-Feb-2014 17:17:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-2.D

Injection Date:	26-Feb-2014 13:31:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-962-A-2	Lab Sample ID:	140-962-2	Worklist Smp#:	6
Client ID:	34000495				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 | Lab Sample ID: 140-962-5

Matrix: Air | Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 891 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-962-1

SDG No.:

Client Sample ID: 10806 Lab Sample ID: 140-962-5

Matrix: Air Lab File ID: 140-962-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 12:00

Sample wt/vol: 500(mL) Date Analyzed: 02/26/2014 17:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 891 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-5.D
Lims ID: 140-962-A-5 Lab Sample ID: 140-962-5
Client ID: 10806
Sample Type: Client
Inject. Date: 26-Feb-2014 17:27:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10806
Misc. Info.: J021914,TO15,,140-0000477-009
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140225-477.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 27-Feb-2014 06:54:32 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: tajh Date: 27-Feb-2014 06:54:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.394	9.405	-0.011	92	203362	4.00	
*	2 1,4-Difluorobenzene	114	11.552	11.556	-0.004	95	920989	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.216	16.220	-0.004	94	693395	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.835	17.834	0.001	82	541219	3.91	
	7 Propene	41	3.977	3.977	0.0	91	4987	0.0459	
	13 Butane	43	4.515	4.520	-0.005	78	7611	0.0657	
	19 2-Methylbutane	43	5.408	5.418	-0.010	66	1845	0.0193	
	31 Methylene Chloride	84	6.758	6.769	-0.011	65	3156	0.0512	
	40 Hexane	56	8.647	8.657	-0.010	56	1127	0.0147	

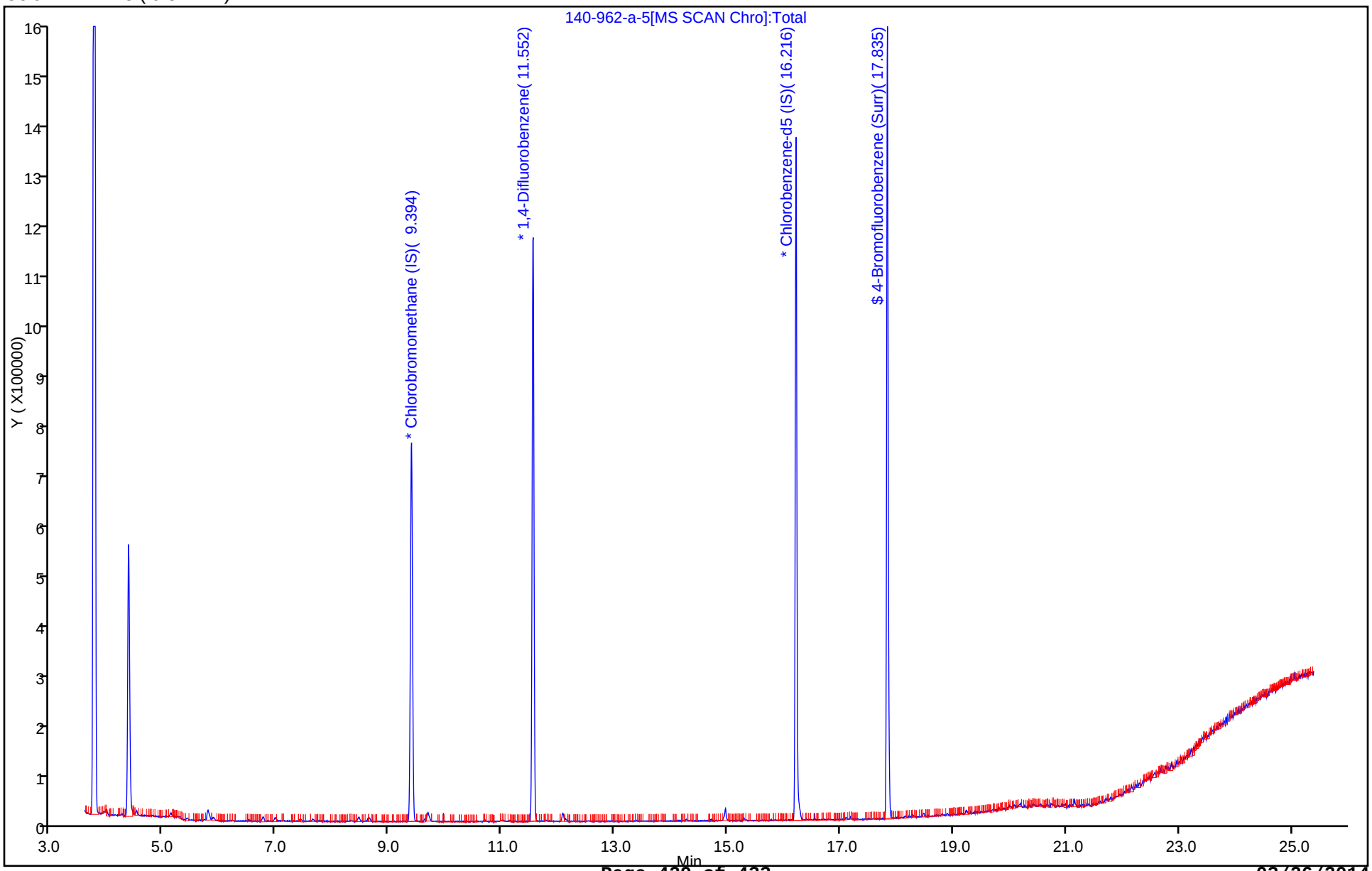
Report Date: 27-Feb-2014 06:54:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140225-477.b\140-962-a-5.D

Injection Date:	26-Feb-2014 17:27:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-962-A-5	Lab Sample ID:	140-962-5	Worklist Smp#:	9
Client ID:	10806				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: Jennifer Pfeiffer	Samples Collected By: Sara Meissner	COC No: 1 of 1 COCs
Company Name: AECOM		Phone: 516-591-7313		
Address: 125 Broad Street		Email: Jennifer.Pfeiffer@aecom.com		For Lab Use Only:
City/State/Zip: New York NY 10004		Site Contact: Jessica Ehlen		Walk-in Client:
Phone: 212-377-8400		TA Contact: Jamie Mckinney		Lab Sampling:
FAX: 212-377-8410		Anaylsis Turnaround Time		Job / SDG No.:
Project Name: Peter Cooper Village/A		Standard (Specific): X		(See below for Add'l Items)
Site/Location: Peter Cooper Village, NYC		Rush (Specifiy):		
P O #				

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med+Std+Low+SIM) + Cond. MPEU, SIM	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B12	3/12/14	0816	1424	-30	-4	10879	10001	X								X	X					Temp: 67°F
PCV-1A2-B12	3/12/14	0800	1350	-30	-4	10619	10729	X								X	X					Temp: 67°F
PCV-1A3-B12	3/12/14	0810	1519	-30	-5	09713	34000495	X								X	X					Temp: 67°F
PCV-AMB-5	3/12/14	0825	1455	-30	-5	10588	10043	X								X		X				Temp: 50°F
PCV-AMB-6	3/12/14	0750	1502	-30	-5	10593	10711	X								X		X				Temp: 50°F
																						Received @ ambient
																						No Custody seal
																						1 box
																						KW 3/13/14

140-1051 Chain of Custody

	Temperature (Fahrenheit)		
Start	Interior 67°	Ambient 47°	
Stop	67°	50°	

	Barometric Temperature (Fahrenheit)		Pressure
Start	Interior	Ambient	29.57"
Stop			29.21

UPS Next Day Air
tr#1Z 083 95E 01 5836 6191

5 Cans
5 flows

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 3/12/14/1800	Samples Received by:	
Samples Relinquished by:	Date / Time: 3/12/14 1530	Received by:	
Relinquished by:	Date / Time:	Received by:	3/13/14 KW 3/13/14 0945 1025
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DDF	3/13/2013	1240	140-1051-a-1	X		-5.3	
DDF	3/13/2013	1241	140-1051-a-2	X		-3.0	
DDF	3/13/2013	1242	140-1051-a-3	X		-5.2	
DDF	3/13/2013	1243	140-1051-a-4	X		-5.9	
DDF	3/13/2013	1244	140-1051-a-5	X		-4.3	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1051-1

Login Number: 1051

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
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ANALYTICAL REPORT

Job Number: 140-1054-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/26/2014 11:05 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/26/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
cn	Refer to Case Narrative for further detail
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1054-1

Comments
No additional comments.

Receipt
The samples were received on 3/13/2014 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

Sample PCV-AMB1 was listed on the chain of custody but wasn't receive. It was received with another shipment.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 958 exhibited % difference of > 30% for trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in some samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Client Sample ID: PCV-IA3-B21

Lab Sample ID: 140-1054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.072	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.057	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.40	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.9		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.39		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.091	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	8.6		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.29		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.047	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.060	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.55		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	34		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.076	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.083	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	2.8		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.27		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.11	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.041	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.35		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.35	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.27	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	5.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.4		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.37	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	20		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.92		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.23	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.21	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.7		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	64		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.33	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.34	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	9.8		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	20		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.49	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.3		0.75	0.45	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B21 (Continued)

Lab Sample ID: 140-1054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B19

Lab Sample ID: 140-1054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.7		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.4		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.034	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.086	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.53		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.59		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	21		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.049	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.62		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.088	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	5.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	9.8		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.6	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.65		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.13	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.27	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.9		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	39		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.59	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.2		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.99		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.38	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.95		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B21 — Lab Sample ID: 140-1054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.9		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.044	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.61		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	17		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.081	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.053	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.27	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.44	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.11	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.5	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.24		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.71	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	8.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	8.7	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.65		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.14	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	31		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.35	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.95	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.3		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.47	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.89		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B19 — Lab Sample ID: 140-1054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.044	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.80		0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B19 (Continued)

Lab Sample ID: 140-1054-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.040	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.53		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	10		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
Toluene	0.20		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.67		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.15	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	20		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.46	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
Toluene	0.75		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B19

Lab Sample ID: 140-1054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.048	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.94		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.72		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.55		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	21		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.056	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.26	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.19	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.070	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.5	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B19 (Continued)

Lab Sample ID: 140-1054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.23		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	7.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.77		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.7		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	39		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.92	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.3		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.80	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.31	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.86		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B21

Lab Sample ID: 140-1054-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.063	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.072	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.053	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.64	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.92		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	1.6		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.12	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	19		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.25		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.035	J *	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.060	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.095	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	54		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.28		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.18	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	13		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B21 (Continued)

Lab Sample ID: 140-1054-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	1.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.43		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	7.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.057	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.69		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.6		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.36	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.9	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.7		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	5.5		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.61	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.41	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	45		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.79		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.14	J *	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.35	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.33	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	100		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.2		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.72	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	45		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.9		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	13	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.39	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 05:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 05:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.073**	**J**	0.20	0.031	ppb v/v			03/15/14 05:49	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 05:49	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 05:49	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 05:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 05:49	1
1,2,4-Trimethylbenzene	**0.072**	**J**	0.20	0.063	ppb v/v			03/15/14 05:49	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 05:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 05:49	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 05:49	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 05:49	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 05:49	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:49	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 05:49	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:49	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 05:49	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 05:49	1
2,2,4-Trimethylpentane	**0.057**	**J**	0.50	0.039	ppb v/v			03/15/14 05:49	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
2-Butanone (MEK)	**0.40**	**J**	1.0	0.20	ppb v/v			03/15/14 05:49	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 05:49	1
2-Methylbutane	**1.9**		0.50	0.031	ppb v/v			03/15/14 05:49	1
2-Methylpentane	**0.39**		0.20	0.20	ppb v/v			03/15/14 05:49	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 05:49	1
4-Methyl-2-pentanone (MIBK)	**0.091**	**J**	0.50	0.045	ppb v/v			03/15/14 05:49	1
Acetone	**8.6**		5.0	1.4	ppb v/v			03/15/14 05:49	1
Benzene	**0.29**		0.20	0.056	ppb v/v			03/15/14 05:49	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 05:49	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 05:49	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 05:49	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 05:49	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 05:49	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/15/14 05:49	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 05:49	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 05:49	1
Chloroform	**0.047**	**J**	0.20	0.038	ppb v/v			03/15/14 05:49	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/15/14 05:49	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 05:49	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 05:49	1
Cyclohexane	**0.060**	**J**	0.50	0.040	ppb v/v			03/15/14 05:49	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 05:49	1
Dichlorodifluoromethane	**0.55**		0.20	0.068	ppb v/v			03/15/14 05:49	1
Ethanol	**34**		2.0	2.0	ppb v/v			03/15/14 05:49	1
Ethylbenzene	**0.076**	**J**	0.20	0.068	ppb v/v			03/15/14 05:49	1
Heptane	**0.083**	**J**	0.50	0.047	ppb v/v			03/15/14 05:49	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 05:49	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**2.8**		0.50	0.032	ppb v/v			03/15/14 05:49	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 05:49	1
Isopropyl alcohol	**8.1**		2.0	0.094	ppb v/v			03/15/14 05:49	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 05:49	1
Methylene Chloride	**0.48**	**J**	0.50	0.13	ppb v/v			03/15/14 05:49	1
m-Xylene & p-Xylene	**0.27**		0.20	0.12	ppb v/v			03/15/14 05:49	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 05:49	1
o-Xylene	**0.11**	**J**	0.20	0.061	ppb v/v			03/15/14 05:49	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 05:49	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 05:49	1
Tetrachloroethene	**0.041**	**J**	0.20	0.040	ppb v/v			03/15/14 05:49	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 05:49	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
Toluene	**0.35**		0.20	0.12	ppb v/v			03/15/14 05:49	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 05:49	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 05:49	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 05:49	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/15/14 05:49	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 05:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 05:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 05:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.56**	**J**	1.5	0.24	ug/m3			03/15/14 05:49	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 05:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 05:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 05:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 05:49	1
1,2,4-Trimethylbenzene	**0.35**	**J**	0.98	0.31	ug/m3			03/15/14 05:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 05:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 05:49	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 05:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 05:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 05:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 05:49	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 05:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 05:49	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 05:49	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 05:49	1
2,2,4-Trimethylpentane	**0.27**	**J**	2.3	0.18	ug/m3			03/15/14 05:49	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 05:49	1
2-Butanone (MEK)	**1.2**	**J**	2.9	0.59	ug/m3			03/15/14 05:49	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 05:49	1
2-Methylbutane	**5.6**		1.5	0.091	ug/m3			03/15/14 05:49	1
2-Methylpentane	**1.4**		0.70	0.70	ug/m3			03/15/14 05:49	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 05:49	1
4-Methyl-2-pentanone (MIBK)	**0.37**	**J**	2.0	0.18	ug/m3			03/15/14 05:49	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**20**		12	3.3	ug/m3			03/15/14 05:49	1
Benzene	**0.92**		0.64	0.18	ug/m3			03/15/14 05:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 05:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 05:49	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 05:49	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 05:49	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 05:49	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/15/14 05:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 05:49	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 05:49	1
Chloroform	**0.23**	**J**	0.98	0.19	ug/m3			03/15/14 05:49	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/15/14 05:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 05:49	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 05:49	1
Cyclohexane	**0.21**	**J**	1.7	0.14	ug/m3			03/15/14 05:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 05:49	1
Dichlorodifluoromethane	**2.7**		0.99	0.34	ug/m3			03/15/14 05:49	1
Ethanol	**64**		3.8	3.8	ug/m3			03/15/14 05:49	1
Ethylbenzene	**0.33**	**J**	0.87	0.30	ug/m3			03/15/14 05:49	1
Heptane	**0.34**	**J**	2.0	0.19	ug/m3			03/15/14 05:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 05:49	1
Hexane	**9.8**		1.8	0.11	ug/m3			03/15/14 05:49	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 05:49	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 05:49	1
Isopropyl alcohol	**20**		4.9	0.23	ug/m3			03/15/14 05:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 05:49	1
Methylene Chloride	**1.7**	**J**	1.7	0.45	ug/m3			03/15/14 05:49	1
m-Xylene & p-Xylene	**1.2**		0.87	0.52	ug/m3			03/15/14 05:49	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 05:49	1
o-Xylene	**0.49**	**J**	0.87	0.26	ug/m3			03/15/14 05:49	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 05:49	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 05:49	1
Tetrachloroethene	**0.28**	**J**	1.4	0.27	ug/m3			03/15/14 05:49	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 05:49	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 05:49	1
Toluene	**1.3**		0.75	0.45	ug/m3			03/15/14 05:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 05:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 05:49	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 05:49	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/15/14 05:49	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*60 - 140*		*03/15/14 05:49*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 06:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/15/14 06:34	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 06:34	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 06:34	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 06:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 06:34	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 06:34	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 06:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 06:34	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 06:34	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 06:34	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 06:34	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 06:34	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 06:34	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 06:34	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 06:34	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 06:34	1
2,2,4-Trimethylpentane	**0.043**	**J**	0.50	0.039	ppb v/v			03/15/14 06:34	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
2-Butanone (MEK)	**0.26**	**J**	1.0	0.20	ppb v/v			03/15/14 06:34	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 06:34	1
2-Methylbutane	**1.7**		0.50	0.031	ppb v/v			03/15/14 06:34	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 06:34	1
4-Methyl-2-pentanone (MIBK)	**2.4**		0.50	0.045	ppb v/v			03/15/14 06:34	1
Acetone	**3.6**	**J**	5.0	1.4	ppb v/v			03/15/14 06:34	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/15/14 06:34	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 06:34	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 06:34	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 06:34	1
Bromomethane	**0.034**	**J**	0.20	0.032	ppb v/v			03/15/14 06:34	1
Carbon disulfide	**0.086**	**J**	0.50	0.031	ppb v/v			03/15/14 06:34	1
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/15/14 06:34	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 06:34	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 06:34	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 06:34	1
Chloromethane	**0.53**		0.50	0.16	ppb v/v			03/15/14 06:34	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 06:34	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 06:34	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 06:34	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 06:34	1
Dichlorodifluoromethane	**0.59**		0.20	0.068	ppb v/v			03/15/14 06:34	1
Ethanol	**21**		2.0	2.0	ppb v/v			03/15/14 06:34	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 06:34	1
Heptane	**0.049**	**J**	0.50	0.047	ppb v/v			03/15/14 06:34	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 06:34	1
Hexane	**0.17**	**J**	0.50	0.032	ppb v/v			03/15/14 06:34	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 06:34	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/15/14 06:34	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 06:34	1
Methylene Chloride	**0.62**		0.50	0.13	ppb v/v			03/15/14 06:34	1
m-Xylene & p-Xylene	**0.23**		0.20	0.12	ppb v/v			03/15/14 06:34	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 06:34	1
o-Xylene	**0.088**	**J**	0.20	0.061	ppb v/v			03/15/14 06:34	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/15/14 06:34	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 06:34	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 06:34	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 06:34	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
Toluene	**0.25**		0.20	0.12	ppb v/v			03/15/14 06:34	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 06:34	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 06:34	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 06:34	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/15/14 06:34	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 06:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 06:34	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.58**	**J**	1.5	0.24	ug/m3			03/15/14 06:34	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 06:34	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 06:34	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 06:34	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 06:34	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 06:34	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 06:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 06:34	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 06:34	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 06:34	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 06:34	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 06:34	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 06:34	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 06:34	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 06:34	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 06:34	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/15/14 06:34	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 06:34	1
2-Butanone (MEK)	**0.75**	**J**	2.9	0.59	ug/m3			03/15/14 06:34	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 06:34	1
2-Methylbutane	**5.0**		1.5	0.091	ug/m3			03/15/14 06:34	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 06:34	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 06:34	1
4-Methyl-2-pentanone (MIBK)	**9.8**		2.0	0.18	ug/m3			03/15/14 06:34	1
Acetone	**8.6**	**J**	12	3.3	ug/m3			03/15/14 06:34	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.65**		0.64	0.18	ug/m3			03/15/14 06:34	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 06:34	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 06:34	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 06:34	1
Bromomethane	**0.13**	**J**	0.78	0.12	ug/m3			03/15/14 06:34	1
Carbon disulfide	**0.27**	**J**	1.6	0.097	ug/m3			03/15/14 06:34	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/15/14 06:34	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 06:34	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 06:34	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 06:34	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/15/14 06:34	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 06:34	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 06:34	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 06:34	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 06:34	1
Dichlorodifluoromethane	**2.9**		0.99	0.34	ug/m3			03/15/14 06:34	1
Ethanol	**39**		3.8	3.8	ug/m3			03/15/14 06:34	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 06:34	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/15/14 06:34	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 06:34	1
Hexane	**0.59**	**J**	1.8	0.11	ug/m3			03/15/14 06:34	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 06:34	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 06:34	1
Isopropyl alcohol	**3.4**	**J**	4.9	0.23	ug/m3			03/15/14 06:34	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 06:34	1
Methylene Chloride	**2.2**		1.7	0.45	ug/m3			03/15/14 06:34	1
m-Xylene & p-Xylene	**0.99**		0.87	0.52	ug/m3			03/15/14 06:34	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 06:34	1
o-Xylene	**0.38**	**J**	0.87	0.26	ug/m3			03/15/14 06:34	1
Propene	**2.3**	**cn**	0.86	0.13	ug/m3			03/15/14 06:34	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 06:34	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 06:34	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 06:34	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 06:34	1
Toluene	**0.95**		0.75	0.45	ug/m3			03/15/14 06:34	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 06:34	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 06:34	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 06:34	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/15/14 06:34	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/15/14 06:34*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 07:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 07:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/15/14 07:19	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 07:19	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 07:19	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 07:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 07:19	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 07:19	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 07:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 07:19	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 07:19	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 07:19	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 07:19	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 07:19	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 07:19	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 07:19	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 07:19	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 07:19	1
2,2,4-Trimethylpentane	**0.041**	**J**	0.50	0.039	ppb v/v			03/15/14 07:19	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
2-Butanone (MEK)	**0.24**	**J**	1.0	0.20	ppb v/v			03/15/14 07:19	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 07:19	1
2-Methylbutane	**2.9**		0.50	0.031	ppb v/v			03/15/14 07:19	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 07:19	1
Acetone	**3.7**	**J**	5.0	1.4	ppb v/v			03/15/14 07:19	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/15/14 07:19	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 07:19	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 07:19	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 07:19	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 07:19	1
Carbon disulfide	**0.044**	**J**	0.50	0.031	ppb v/v			03/15/14 07:19	1
Carbon tetrachloride	**0.070**	**J**	0.20	0.038	ppb v/v			03/15/14 07:19	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 07:19	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 07:19	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 07:19	1
Chloromethane	**0.61**		0.50	0.16	ppb v/v			03/15/14 07:19	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 07:19	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 07:19	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 07:19	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 07:19	1
Dichlorodifluoromethane	**0.51**		0.20	0.068	ppb v/v			03/15/14 07:19	1
Ethanol	**17**		2.0	2.0	ppb v/v			03/15/14 07:19	1
Ethylbenzene	**0.081**	**J**	0.20	0.068	ppb v/v			03/15/14 07:19	1
Heptane	**0.053**	**J**	0.50	0.047	ppb v/v			03/15/14 07:19	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 07:19	1
Hexane	**0.27**	**J**	0.50	0.032	ppb v/v			03/15/14 07:19	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 07:19	1
Isopropyl alcohol	**2.2**		2.0	0.094	ppb v/v			03/15/14 07:19	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 07:19	1
Methylene Chloride	**0.44**	**J**	0.50	0.13	ppb v/v			03/15/14 07:19	1
m-Xylene & p-Xylene	**0.30**		0.20	0.12	ppb v/v			03/15/14 07:19	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 07:19	1
o-Xylene	**0.11**	**J**	0.20	0.061	ppb v/v			03/15/14 07:19	1
Propene	**1.5**	**cn**	0.50	0.077	ppb v/v			03/15/14 07:19	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 07:19	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 07:19	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 07:19	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
Toluene	**0.24**		0.20	0.12	ppb v/v			03/15/14 07:19	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 07:19	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 07:19	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 07:19	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/15/14 07:19	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 07:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 07:19	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 07:19	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.51**	**J**	1.5	0.24	ug/m3			03/15/14 07:19	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 07:19	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 07:19	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 07:19	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 07:19	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 07:19	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 07:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 07:19	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 07:19	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 07:19	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 07:19	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 07:19	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 07:19	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 07:19	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 07:19	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 07:19	1
2,2,4-Trimethylpentane	**0.19**	**J**	2.3	0.18	ug/m3			03/15/14 07:19	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 07:19	1
2-Butanone (MEK)	**0.71**	**J**	2.9	0.59	ug/m3			03/15/14 07:19	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 07:19	1
2-Methylbutane	**8.6**		1.5	0.091	ug/m3			03/15/14 07:19	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 07:19	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 07:19	1
Acetone	**8.7**	**J**	12	3.3	ug/m3			03/15/14 07:19	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.65**		0.64	0.18	ug/m3			03/15/14 07:19	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 07:19	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 07:19	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 07:19	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 07:19	1
Carbon disulfide	**0.14**	**J**	1.6	0.097	ug/m3			03/15/14 07:19	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/15/14 07:19	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 07:19	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 07:19	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 07:19	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/15/14 07:19	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 07:19	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 07:19	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 07:19	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 07:19	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/15/14 07:19	1
Ethanol	**31**		3.8	3.8	ug/m3			03/15/14 07:19	1
Ethylbenzene	**0.35**	**J**	0.87	0.30	ug/m3			03/15/14 07:19	1
Heptane	**0.22**	**J**	2.0	0.19	ug/m3			03/15/14 07:19	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 07:19	1
Hexane	**0.95**	**J**	1.8	0.11	ug/m3			03/15/14 07:19	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 07:19	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 07:19	1
Isopropyl alcohol	**5.3**		4.9	0.23	ug/m3			03/15/14 07:19	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 07:19	1
Methylene Chloride	**1.5**	**J**	1.7	0.45	ug/m3			03/15/14 07:19	1
m-Xylene & p-Xylene	**1.3**		0.87	0.52	ug/m3			03/15/14 07:19	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 07:19	1
o-Xylene	**0.47**	**J**	0.87	0.26	ug/m3			03/15/14 07:19	1
Propene	**2.6**	**cn**	0.86	0.13	ug/m3			03/15/14 07:19	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 07:19	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 07:19	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 07:19	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 07:19	1
Toluene	**0.89**		0.75	0.45	ug/m3			03/15/14 07:19	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 07:19	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 07:19	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 07:19	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/15/14 07:19	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 07:19*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B19
Date Collected: 03/10/14 16:42
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 08:05	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 08:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/15/14 08:05	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 08:05	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 08:05	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 08:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 08:05	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 08:05	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 08:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 08:05	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 08:05	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 08:05	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 08:05	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 08:05	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 08:05	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 08:05	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 08:05	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 08:05	1
2,2,4-Trimethylpentane	**0.044**	**J**	0.50	0.039	ppb v/v			03/15/14 08:05	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/15/14 08:05	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 08:05	1
2-Methylbutane	**0.80**		0.50	0.031	ppb v/v			03/15/14 08:05	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 08:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 08:05	1
Acetone	**2.3**	**J**	5.0	1.4	ppb v/v			03/15/14 08:05	1
Benzene	**0.21**		0.20	0.056	ppb v/v			03/15/14 08:05	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 08:05	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 08:05	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 08:05	1
Bromomethane	**0.040**	**J**	0.20	0.032	ppb v/v			03/15/14 08:05	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 08:05	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/15/14 08:05	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 08:05	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 08:05	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 08:05	1
Chloromethane	**0.53**		0.50	0.16	ppb v/v			03/15/14 08:05	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 08:05	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 08:05	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 08:05	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 08:05	1
Dichlorodifluoromethane	**0.53**		0.20	0.068	ppb v/v			03/15/14 08:05	1
Ethanol	**10**		2.0	2.0	ppb v/v			03/15/14 08:05	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 08:05	1
Heptane	ND		0.50	0.047	ppb v/v			03/15/14 08:05	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 08:05	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/15/14 08:05	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B19
Date Collected: 03/10/14 16:42
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 08:05	1
Isopropyl alcohol	**1.7**	**J**	2.0	0.094	ppb v/v			03/15/14 08:05	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 08:05	1
Methylene Chloride	**0.43**	**J**	0.50	0.13	ppb v/v			03/15/14 08:05	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/15/14 08:05	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 08:05	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 08:05	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 08:05	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 08:05	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 08:05	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 08:05	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
Toluene	**0.20**		0.20	0.12	ppb v/v			03/15/14 08:05	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 08:05	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 08:05	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 08:05	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/15/14 08:05	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 08:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 08:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 08:05	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.58**	**J**	1.5	0.24	ug/m3			03/15/14 08:05	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 08:05	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 08:05	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 08:05	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 08:05	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 08:05	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 08:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 08:05	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 08:05	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 08:05	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 08:05	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 08:05	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 08:05	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 08:05	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 08:05	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 08:05	1
2,2,4-Trimethylpentane	**0.21**	**J**	2.3	0.18	ug/m3			03/15/14 08:05	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 08:05	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/15/14 08:05	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 08:05	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/15/14 08:05	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 08:05	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 08:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 08:05	1
Acetone	**5.5**	**J**	12	3.3	ug/m3			03/15/14 08:05	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA1-B19
Lab Sample ID: 140-1054-4
Date Collected: 03/10/14 16:42
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.67**		0.64	0.18	ug/m3			03/15/14 08:05	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 08:05	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 08:05	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 08:05	1
Bromomethane	**0.15**	**J**	0.78	0.12	ug/m3			03/15/14 08:05	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 08:05	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/15/14 08:05	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 08:05	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 08:05	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 08:05	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/15/14 08:05	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 08:05	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 08:05	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 08:05	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 08:05	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			03/15/14 08:05	1
Ethanol	**20**		3.8	3.8	ug/m3			03/15/14 08:05	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 08:05	1
Heptane	ND		2.0	0.19	ug/m3			03/15/14 08:05	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 08:05	1
Hexane	**0.46**	**J**	1.8	0.11	ug/m3			03/15/14 08:05	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 08:05	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 08:05	1
Isopropyl alcohol	**4.1**	**J**	4.9	0.23	ug/m3			03/15/14 08:05	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 08:05	1
Methylene Chloride	**1.5**	**J**	1.7	0.45	ug/m3			03/15/14 08:05	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/15/14 08:05	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 08:05	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 08:05	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 08:05	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 08:05	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 08:05	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 08:05	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 08:05	1
Toluene	**0.75**		0.75	0.45	ug/m3			03/15/14 08:05	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 08:05	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 08:05	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 08:05	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/15/14 08:05	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 08:05*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B19
Date Collected: 03/10/14 16:48
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 09:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 09:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/18/14 09:06	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 09:06	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 09:06	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 09:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 09:06	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 09:06	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 09:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 09:06	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 09:06	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 09:06	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 09:06	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 09:06	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 09:06	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 09:06	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 09:06	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 09:06	1
2,2,4-Trimethylpentane	**0.048**	**J**	0.50	0.039	ppb v/v			03/18/14 09:06	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
2-Butanone (MEK)	**0.25**	**J**	1.0	0.20	ppb v/v			03/18/14 09:06	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 09:06	1
2-Methylbutane	**0.94**		0.50	0.031	ppb v/v			03/18/14 09:06	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 09:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/18/14 09:06	1
Acetone	**3.3**	**J**	5.0	1.4	ppb v/v			03/18/14 09:06	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/18/14 09:06	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 09:06	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 09:06	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 09:06	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 09:06	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 09:06	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/18/14 09:06	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 09:06	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 09:06	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 09:06	1
Chloromethane	**0.72**		0.50	0.16	ppb v/v			03/18/14 09:06	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 09:06	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 09:06	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 09:06	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 09:06	1
Dichlorodifluoromethane	**0.55**		0.20	0.068	ppb v/v			03/18/14 09:06	1
Ethanol	**21**		2.0	2.0	ppb v/v			03/18/14 09:06	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 09:06	1
Heptane	**0.056**	**J**	0.50	0.047	ppb v/v			03/18/14 09:06	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 09:06	1
Hexane	**0.26**	**J**	0.50	0.032	ppb v/v			03/18/14 09:06	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B19
Date Collected: 03/10/14 16:48
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 09:06	1
Isopropyl alcohol	**2.2**		2.0	0.094	ppb v/v			03/18/14 09:06	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 09:06	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/18/14 09:06	1
m-Xylene & p-Xylene	**0.19**	**J**	0.20	0.12	ppb v/v			03/18/14 09:06	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 09:06	1
o-Xylene	**0.070**	**J**	0.20	0.061	ppb v/v			03/18/14 09:06	1
Propene	**1.5**	**cn**	0.50	0.077	ppb v/v			03/18/14 09:06	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 09:06	1
Tetrachloroethene	**0.042**	**J**	0.20	0.040	ppb v/v			03/18/14 09:06	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 09:06	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
Toluene	**0.23**		0.20	0.12	ppb v/v			03/18/14 09:06	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 09:06	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 09:06	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 09:06	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/18/14 09:06	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 09:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 09:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 09:06	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.54**	**J**	1.5	0.24	ug/m3			03/18/14 09:06	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 09:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 09:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 09:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 09:06	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 09:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 09:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 09:06	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 09:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 09:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 09:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 09:06	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 09:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 09:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 09:06	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 09:06	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/18/14 09:06	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 09:06	1
2-Butanone (MEK)	**0.75**	**J**	2.9	0.59	ug/m3			03/18/14 09:06	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 09:06	1
2-Methylbutane	**2.8**		1.5	0.091	ug/m3			03/18/14 09:06	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 09:06	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 09:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/18/14 09:06	1
Acetone	**7.8**	**J**	12	3.3	ug/m3			03/18/14 09:06	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA3-B19
Lab Sample ID: 140-1054-5
Date Collected: 03/10/14 16:48
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.77**		0.64	0.18	ug/m3			03/18/14 09:06	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 09:06	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 09:06	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 09:06	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 09:06	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 09:06	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/18/14 09:06	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 09:06	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 09:06	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 09:06	1
Chloromethane	**1.5**		1.0	0.33	ug/m3			03/18/14 09:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 09:06	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 09:06	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 09:06	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 09:06	1
Dichlorodifluoromethane	**2.7**		0.99	0.34	ug/m3			03/18/14 09:06	1
Ethanol	**39**		3.8	3.8	ug/m3			03/18/14 09:06	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 09:06	1
Heptane	**0.23**	**J**	2.0	0.19	ug/m3			03/18/14 09:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 09:06	1
Hexane	**0.92**	**J**	1.8	0.11	ug/m3			03/18/14 09:06	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 09:06	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 09:06	1
Isopropyl alcohol	**5.3**		4.9	0.23	ug/m3			03/18/14 09:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 09:06	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/18/14 09:06	1
m-Xylene & p-Xylene	**0.80**	**J**	0.87	0.52	ug/m3			03/18/14 09:06	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 09:06	1
o-Xylene	**0.31**	**J**	0.87	0.26	ug/m3			03/18/14 09:06	1
Propene	**2.6**	**cn**	0.86	0.13	ug/m3			03/18/14 09:06	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 09:06	1
Tetrachloroethene	**0.29**	**J**	1.4	0.27	ug/m3			03/18/14 09:06	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 09:06	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 09:06	1
Toluene	**0.86**		0.75	0.45	ug/m3			03/18/14 09:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 09:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 09:06	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 09:06	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/18/14 09:06	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 09:06*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA2-B21
Date Collected: 03/10/14 17:10
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.063**	**J**	0.20	0.031	ppb v/v			03/17/14 23:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 23:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 23:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 23:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 23:15	1
1,2,4-Trimethylbenzene	**0.32**		0.20	0.063	ppb v/v			03/17/14 23:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 23:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 23:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 23:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 23:15	1
1,3,5-Trimethylbenzene	**0.072**	**J**	0.20	0.065	ppb v/v			03/17/14 23:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 23:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 23:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 23:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 23:15	1
2,2,4-Trimethylpentane	**0.053**	**J**	0.50	0.039	ppb v/v			03/17/14 23:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
2-Butanone (MEK)	**0.64**	**J**	1.0	0.20	ppb v/v			03/17/14 23:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 23:15	1
2-Methylbutane	**0.92**		0.50	0.031	ppb v/v			03/17/14 23:15	1
2-Methylpentane	**1.6**		0.20	0.20	ppb v/v			03/17/14 23:15	1
4-Ethyltoluene	**0.12**	**J**	0.40	0.066	ppb v/v			03/17/14 23:15	1
4-Methyl-2-pentanone (MIBK)	**0.10**	**J**	0.50	0.045	ppb v/v			03/17/14 23:15	1
Acetone	**19**		5.0	1.4	ppb v/v			03/17/14 23:15	1
Benzene	**0.25**		0.20	0.056	ppb v/v			03/17/14 23:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 23:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 23:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 23:15	1
Bromomethane	**0.035**	**J ***	0.20	0.032	ppb v/v			03/17/14 23:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 23:15	1
Carbon tetrachloride	**0.060**	**J**	0.20	0.038	ppb v/v			03/17/14 23:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 23:15	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/17/14 23:15	1
Chloroform	**0.071**	**J**	0.20	0.038	ppb v/v			03/17/14 23:15	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/17/14 23:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 23:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 23:15	1
Cyclohexane	**0.095**	**J**	0.50	0.040	ppb v/v			03/17/14 23:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 23:15	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/17/14 23:15	1
Ethanol	**54**		2.0	2.0	ppb v/v			03/17/14 23:15	1
Ethylbenzene	**0.28**		0.20	0.068	ppb v/v			03/17/14 23:15	1
Heptane	**0.18**	**J**	0.50	0.047	ppb v/v			03/17/14 23:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 23:15	1
Hexane	**13**		0.50	0.032	ppb v/v			03/17/14 23:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Client Sample ID: PCV-IA2-B21
Date Collected: 03/10/14 17:10
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 23:15	1
Isopropyl alcohol	**4.8**		2.0	0.094	ppb v/v			03/17/14 23:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 23:15	1
Methylene Chloride	**0.39**	**J**	0.50	0.13	ppb v/v			03/17/14 23:15	1
m-Xylene & p-Xylene	**1.2**		0.20	0.12	ppb v/v			03/17/14 23:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 23:15	1
o-Xylene	**0.43**		0.20	0.061	ppb v/v			03/17/14 23:15	1
Propene	**7.4**	**cn**	0.50	0.077	ppb v/v			03/17/14 23:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 23:15	1
Tetrachloroethene	**0.057**	**J**	0.20	0.040	ppb v/v			03/17/14 23:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 23:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
Toluene	**0.69**		0.20	0.12	ppb v/v			03/17/14 23:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 23:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 23:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 23:15	1
Trichlorofluoromethane	**0.23**		0.20	0.024	ppb v/v			03/17/14 23:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 23:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 23:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.48**	**J**	1.5	0.24	ug/m3			03/17/14 23:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 23:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 23:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 23:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 23:15	1
1,2,4-Trimethylbenzene	**1.6**		0.98	0.31	ug/m3			03/17/14 23:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 23:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 23:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 23:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 23:15	1
1,3,5-Trimethylbenzene	**0.36**	**J**	0.98	0.32	ug/m3			03/17/14 23:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 23:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 23:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 23:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 23:15	1
2,2,4-Trimethylpentane	**0.25**	**J**	2.3	0.18	ug/m3			03/17/14 23:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 23:15	1
2-Butanone (MEK)	**1.9**	**J**	2.9	0.59	ug/m3			03/17/14 23:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 23:15	1
2-Methylbutane	**2.7**		1.5	0.091	ug/m3			03/17/14 23:15	1
2-Methylpentane	**5.5**		0.70	0.70	ug/m3			03/17/14 23:15	1
4-Ethyltoluene	**0.61**	**J**	2.0	0.32	ug/m3			03/17/14 23:15	1
4-Methyl-2-pentanone (MIBK)	**0.41**	**J**	2.0	0.18	ug/m3			03/17/14 23:15	1
Acetone	**45**		12	3.3	ug/m3			03/17/14 23:15	1

Client Sample ID: PCV-IA2-B21
Lab Sample ID: 140-1054-6
Date Collected: 03/10/14 17:10
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.79**		0.64	0.18	ug/m3			03/17/14 23:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 23:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 23:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 23:15	1
Bromomethane	**0.14**	**J ***	0.78	0.12	ug/m3			03/17/14 23:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 23:15	1
Carbon tetrachloride	**0.37**	**J**	1.3	0.24	ug/m3			03/17/14 23:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 23:15	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/17/14 23:15	1
Chloroform	**0.35**	**J**	0.98	0.19	ug/m3			03/17/14 23:15	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/17/14 23:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 23:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 23:15	1
Cyclohexane	**0.33**	**J**	1.7	0.14	ug/m3			03/17/14 23:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 23:15	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/17/14 23:15	1
Ethanol	**100**		3.8	3.8	ug/m3			03/17/14 23:15	1
Ethylbenzene	**1.2**		0.87	0.30	ug/m3			03/17/14 23:15	1
Heptane	**0.72**	**J**	2.0	0.19	ug/m3			03/17/14 23:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 23:15	1
Hexane	**45**		1.8	0.11	ug/m3			03/17/14 23:15	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 23:15	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 23:15	1
Isopropyl alcohol	**12**		4.9	0.23	ug/m3			03/17/14 23:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 23:15	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/17/14 23:15	1
m-Xylene & p-Xylene	**5.2**		0.87	0.52	ug/m3			03/17/14 23:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 23:15	1
o-Xylene	**1.9**		0.87	0.26	ug/m3			03/17/14 23:15	1
Propene	**13**	**cn**	0.86	0.13	ug/m3			03/17/14 23:15	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 23:15	1
Tetrachloroethene	**0.39**	**J**	1.4	0.27	ug/m3			03/17/14 23:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 23:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 23:15	1
Toluene	**2.6**		0.75	0.45	ug/m3			03/17/14 23:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 23:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 23:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 23:15	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/17/14 23:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/17/14 23:15*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB								
Lab Sample ID	Client Sample ID	(60-140)								
140-1054-1	PCV-IA3-B21	109								
140-1054-2	PCV-IA2-B19	103								
140-1054-3	PCV-IA1-B21	107								
140-1054-4	PCV-IA1-B19	106								
140-1054-5	PCV-IA3-B19	102								
140-1054-6	PCV-IA2-B21	99								
LCS 140-958/1002	Lab Control Sample	110								
LCS 140-967/1002	Lab Control Sample	108								
MB 140-958/5	Method Blank	105								
MB 140-967/5	Method Blank	103								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/14/14 14:09	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 14:09	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 14:09	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 14:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 14:09	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 14:09	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 14:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 14:09	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 14:09	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 14:09	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 14:09	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:09	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 14:09	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:09	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 14:09	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 14:09	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 14:09	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/14/14 14:09	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 14:09	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/14/14 14:09	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 14:09	1
Acetone	ND		5.0	1.4	ppb v/v			03/14/14 14:09	1
Benzene	ND		0.20	0.056	ppb v/v			03/14/14 14:09	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 14:09	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 14:09	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 14:09	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 14:09	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 14:09	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/14/14 14:09	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 14:09	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 14:09	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 14:09	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/14/14 14:09	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 14:09	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 14:09	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 14:09	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 14:09	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/14/14 14:09	1
Ethanol	ND		2.0	2.0	ppb v/v			03/14/14 14:09	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 14:09	1
Heptane	ND		0.50	0.047	ppb v/v			03/14/14 14:09	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 14:09	1
Hexane	ND		0.50	0.032	ppb v/v			03/14/14 14:09	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 14:09	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/14/14 14:09	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 14:09	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/14/14 14:09	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 14:09	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 14:09	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 14:09	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 14:09	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 14:09	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 14:09	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 14:09	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 14:09	1
Toluene	ND		0.20	0.12	ppb v/v			03/14/14 14:09	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 14:09	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 14:09	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 14:09	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/14/14 14:09	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 14:09	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/14/14 14:09	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 14:09	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 14:09	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 14:09	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 14:09	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 14:09	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 14:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 14:09	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 14:09	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 14:09	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 14:09	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 14:09	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 14:09	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 14:09	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 14:09	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 14:09	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 14:09	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 14:09	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/14/14 14:09	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 14:09	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/14/14 14:09	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 14:09	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 14:09	1
Acetone	ND		12	3.3	ug/m3			03/14/14 14:09	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-958/5
Matrix: Air
Analysis Batch: 958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/14/14 14:09	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 14:09	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 14:09	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 14:09	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 14:09	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 14:09	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/14/14 14:09	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 14:09	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 14:09	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 14:09	1
Chloromethane	ND		1.0	0.33	ug/m3			03/14/14 14:09	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 14:09	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 14:09	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 14:09	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 14:09	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/14/14 14:09	1
Ethanol	ND		3.8	3.8	ug/m3			03/14/14 14:09	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 14:09	1
Heptane	ND		2.0	0.19	ug/m3			03/14/14 14:09	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 14:09	1
Hexane	ND		1.8	0.11	ug/m3			03/14/14 14:09	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 14:09	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 14:09	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/14/14 14:09	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 14:09	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/14/14 14:09	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 14:09	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 14:09	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 14:09	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 14:09	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 14:09	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 14:09	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 14:09	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 14:09	1
Toluene	ND		0.75	0.45	ug/m3			03/14/14 14:09	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 14:09	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 14:09	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 14:09	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/14/14 14:09	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 14:09*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.25		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,1-Dichloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.51		ppb v/v		75	60 - 140
1,2,4-Trimethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.00		ppb v/v		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33		ppb v/v		116	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.27		ppb v/v		113	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,3,5-Trimethylbenzene	2.00	2.03		ppb v/v		102	70 - 130
1,3-Butadiene	2.00	2.27		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	2.00	2.04		ppb v/v		102	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.79		ppb v/v		90	70 - 130
2,3-Dimethylpentane	2.00	1.93		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.58		ppb v/v		79	60 - 140
2-Hexanone	2.00	1.53		ppb v/v		76	60 - 140
2-Methylbutane	2.00	2.27		ppb v/v		113	70 - 130
2-Methylpentane	2.00	1.81		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.05		ppb v/v		102	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.53		ppb v/v		76	60 - 140
Acetone	2.00	1.92	J	ppb v/v		96	60 - 140
Benzene	2.00	2.05		ppb v/v		102	70 - 130
Benzyl chloride	2.00	2.12		ppb v/v		106	70 - 130
Bromodichloromethane	2.00	2.26		ppb v/v		113	70 - 130
Bromoform	2.00	1.71		ppb v/v		86	60 - 140
Bromomethane	2.00	2.53		ppb v/v		126	70 - 130
Carbon disulfide	2.00	2.16		ppb v/v		108	70 - 130
Carbon tetrachloride	2.00	2.45		ppb v/v		123	70 - 130
Chlorobenzene	2.00	1.98		ppb v/v		99	70 - 130
Chloroethane	2.00	2.48		ppb v/v		124	70 - 130
Chloroform	2.00	2.23		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
cis-1,3-Dichloropropene	2.00	2.17		ppb v/v		108	70 - 130
Cyclohexane	2.00	1.93		ppb v/v		96	70 - 130
Dibromochloromethane	2.00	2.02		ppb v/v		101	70 - 130
Dichlorodifluoromethane	2.00	2.49		ppb v/v		124	60 - 140
Ethanol	10.0	10.3		ppb v/v		103	20 - 180
Ethylbenzene	2.00	2.05		ppb v/v		102	70 - 130
Heptane	2.00	1.92		ppb v/v		96	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.03		ppb v/v		101	60 - 140
Hexane	2.00	1.86		ppb v/v		93	70 - 130
Indane	2.00	2.09		ppb v/v		105	20 - 180
Indene	2.00	2.16		ppb v/v		108	20 - 180
Isopropyl alcohol	2.00	1.97		ppb v/v		98	60 - 140
Methyl tert-butyl ether	2.00	2.19		ppb v/v		110	60 - 140
Methylene Chloride	2.00	2.14		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	4.41		ppb v/v		110	70 - 130
Naphthalene	2.00	1.49		ppb v/v		75	40 - 140
o-Xylene	2.00	2.10		ppb v/v		105	70 - 130
Propene	2.00	1.89		ppb v/v		94	60 - 140
Styrene	2.00	2.12		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	1.87		ppb v/v		94	70 - 130
Tetrahydrofuran	2.00	1.66		ppb v/v		83	60 - 140
Thiophene	2.00	1.99		ppb v/v		99	20 - 180
Toluene	2.00	1.94		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	1.99		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	2.00	1.99		ppb v/v		100	70 - 130
Trichloroethene	2.00	1.89		ppb v/v		95	70 - 130
Trichlorofluoromethane	2.00	2.64		ppb v/v		132	60 - 140
Vinyl chloride	2.00	2.47		ppb v/v		124	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.3		ug/m3		112	70 - 130
1,1,2,2-Tetrachloroethane	14	14.3		ug/m3		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.1		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	10.7		ug/m3		98	70 - 130
1,1-Dichloroethane	8.1	8.19		ug/m3		101	70 - 130
1,1-Dichloroethene	7.9	8.16		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	11.2		ug/m3		75	60 - 140
1,2,4-Trimethylbenzene	9.8	10.7		ug/m3		109	70 - 130
1,2-Dibromoethane (EDB)	15	15.4		ug/m3		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	16.3		ug/m3		116	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	9.19		ug/m3		113	70 - 130
1,2-Dichloropropane	9.2	9.04		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	9.8	9.99		ug/m3		102	70 - 130
1,3-Butadiene	4.4	5.01		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,4-Dichlorobenzene	12	12.3		ug/m3		102	70 - 130
1,4-Dioxane	7.2	5.66		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	8.37		ug/m3		90	70 - 130
2,3-Dimethylpentane	8.2	7.91		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.65		ug/m3		79	60 - 140
2-Hexanone	8.2	6.26		ug/m3		76	60 - 140
2-Methylbutane	5.9	6.70		ug/m3		113	70 - 130
2-Methylpentane	7.0	6.38		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.1		ug/m3		102	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	6.25		ug/m3		76	60 - 140
Acetone	4.8	4.56	J	ug/m3		96	60 - 140
Benzene	6.4	6.54		ug/m3		102	70 - 130
Benzyl chloride	10	11.0		ug/m3		106	70 - 130
Bromodichloromethane	13	15.1		ug/m3		113	70 - 130
Bromoform	21	17.7		ug/m3		86	60 - 140
Bromomethane	7.8	9.82		ug/m3		126	70 - 130
Carbon disulfide	6.2	6.72		ug/m3		108	70 - 130
Carbon tetrachloride	13	15.4		ug/m3		123	70 - 130
Chlorobenzene	9.2	9.12		ug/m3		99	70 - 130
Chloroethane	5.3	6.54		ug/m3		124	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	7.55		ug/m3		95	70 - 130
cis-1,3-Dichloropropene	9.1	9.83		ug/m3		108	70 - 130
Cyclohexane	6.9	6.63		ug/m3		96	70 - 130
Dibromochloromethane	17	17.2		ug/m3		101	70 - 130
Dichlorodifluoromethane	9.9	12.3		ug/m3		124	60 - 140
Ethanol	19	19.4		ug/m3		103	20 - 180
Ethylbenzene	8.7	8.89		ug/m3		102	70 - 130
Heptane	8.2	7.86		ug/m3		96	70 - 130
Hexachlorobutadiene	21	21.6		ug/m3		101	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	10.1		ug/m3		105	20 - 180
Indene	9.5	10.2		ug/m3		108	20 - 180
Isopropyl alcohol	4.9	4.83		ug/m3		98	60 - 140
Methyl tert-butyl ether	7.2	7.90		ug/m3		110	60 - 140
Methylene Chloride	6.9	7.44		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	19.2		ug/m3		110	70 - 130
Naphthalene	10	7.83		ug/m3		75	40 - 140
o-Xylene	8.7	9.13		ug/m3		105	70 - 130
Propene	3.4	3.25		ug/m3		94	60 - 140
Styrene	8.5	9.05		ug/m3		106	70 - 130
Tetrachloroethene	14	12.7		ug/m3		94	70 - 130
Tetrahydrofuran	5.9	4.90		ug/m3		83	60 - 140
Thiophene	6.9	6.84		ug/m3		99	20 - 180
Toluene	7.5	7.31		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	7.91		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	9.1	9.05		ug/m3		100	70 - 130
Trichloroethene	11	10.2		ug/m3		95	70 - 130
Trichlorofluoromethane	11	14.9		ug/m3		132	60 - 140
Vinyl chloride	5.1	6.32		ug/m3		124	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 17:11	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/17/14 17:11	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 17:11	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/17/14 17:11	1
Acetone	ND		5.0	1.4	ppb v/v			03/17/14 17:11	1
Benzene	ND		0.20	0.056	ppb v/v			03/17/14 17:11	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 17:11	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 17:11	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/17/14 17:11	1
Chloroform	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 17:11	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/17/14 17:11	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Ethanol	ND		2.0	2.0	ppb v/v			03/17/14 17:11	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Heptane	ND		0.50	0.047	ppb v/v			03/17/14 17:11	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 17:11	1
Hexane	ND		0.50	0.032	ppb v/v			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 17:11	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/17/14 17:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 17:11	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 17:11	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
Propene	ND		0.50	0.077	ppb v/v			03/17/14 17:11	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 17:11	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/17/14 17:11	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 17:11	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Toluene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 17:11	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/17/14 17:11	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 17:11	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/17/14 17:11	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 17:11	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 17:11	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/17/14 17:11	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 17:11	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/17/14 17:11	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/17/14 17:11	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/17/14 17:11	1
Acetone	ND		12	3.3	ug/m3			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/17/14 17:11	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 17:11	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 17:11	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 17:11	1
Bromomethane	ND		0.78	0.12	ug/m3			03/17/14 17:11	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 17:11	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/17/14 17:11	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 17:11	1
Chloroethane	ND		0.53	0.092	ug/m3			03/17/14 17:11	1
Chloroform	ND		0.98	0.19	ug/m3			03/17/14 17:11	1
Chloromethane	ND		1.0	0.33	ug/m3			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 17:11	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/17/14 17:11	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/17/14 17:11	1
Ethanol	ND		3.8	3.8	ug/m3			03/17/14 17:11	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/17/14 17:11	1
Heptane	ND		2.0	0.19	ug/m3			03/17/14 17:11	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 17:11	1
Hexane	ND		1.8	0.11	ug/m3			03/17/14 17:11	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 17:11	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 17:11	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/17/14 17:11	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 17:11	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/17/14 17:11	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 17:11	1
o-Xylene	ND		0.87	0.26	ug/m3			03/17/14 17:11	1
Propene	ND		0.86	0.13	ug/m3			03/17/14 17:11	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 17:11	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/17/14 17:11	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 17:11	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 17:11	1
Toluene	ND		0.75	0.45	ug/m3			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 17:11	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 17:11	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/17/14 17:11	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/17/14 17:11*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Air - GC/MS VOA

Analysis Batch: 958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1054-1	PCV-IA3-B21	Total/NA	Air	TO-15	
140-1054-2	PCV-IA2-B19	Total/NA	Air	TO-15	
140-1054-3	PCV-IA1-B21	Total/NA	Air	TO-15	
140-1054-4	PCV-IA1-B19	Total/NA	Air	TO-15	
LCS 140-958/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-958/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1054-5	PCV-IA3-B19	Total/NA	Air	TO-15	
140-1054-6	PCV-IA2-B21	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: PCV-IA3-B21 — Lab Sample ID: 140-1054-1

Date Collected: 03/10/14 16:15 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 05:49	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B19 — Lab Sample ID: 140-1054-2

Date Collected: 03/10/14 16:28 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 06:34	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B21 — Lab Sample ID: 140-1054-3

Date Collected: 03/10/14 17:15 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 07:19	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B19 — Lab Sample ID: 140-1054-4

Date Collected: 03/10/14 16:42 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	958	03/15/14 08:05	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B19 — Lab Sample ID: 140-1054-5

Date Collected: 03/10/14 16:48 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 09:06	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B21 — Lab Sample ID: 140-1054-6

Date Collected: 03/10/14 17:10 — **Matrix: Air**
Date Received: 03/13/14 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/17/14 23:15	AFB	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1054-1	PCV-IA3-B21	Air	03/10/14 16:15	03/13/14 10:25
140-1054-2	PCV-IA2-B19	Air	03/10/14 16:28	03/13/14 10:25
140-1054-3	PCV-IA1-B21	Air	03/10/14 17:15	03/13/14 10:25
140-1054-4	PCV-IA1-B19	Air	03/10/14 16:42	03/13/14 10:25
140-1054-5	PCV-IA3-B19	Air	03/10/14 16:48	03/13/14 10:25
140-1054-6	PCV-IA2-B21	Air	03/10/14 17:10	03/13/14 10:25

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
PCV-IA3-B21	140-1054-1	109
PCV-IA2-B19	140-1054-2	103
PCV-IA1-B21	140-1054-3	107
PCV-IA1-B19	140-1054-4	106
PCV-IA3-B19	140-1054-5	102
PCV-IA2-B21	140-1054-6	99
	MB 140-958/5	105
	MB 140-967/5	103
	LCS 140-958/1002	110
	LCS 140-967/1002	108

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC14-LCS.d

Lab ID: LCS 140-958/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.25	112	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.08	104	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24	112	70-130	
1,1,2-Trichloroethane	2.00	1.96	98	70-130	
1,1-Dichloroethane	2.00	2.02	101	70-130	
1,1-Dichloroethene	2.00	2.06	103	70-130	
1,2,4-Trichlorobenzene	2.00	1.51	75	60-140	
1,2,4-Trimethylbenzene	2.00	2.18	109	70-130	
1,2-Dibromoethane (EDB)	2.00	2.00	100	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33	116	60-140	
1,2-Dichlorobenzene	2.00	2.08	104	70-130	
1,2-Dichloroethane	2.00	2.27	113	70-130	
1,2-Dichloropropane	2.00	1.96	98	70-130	
1,3,5-Trimethylbenzene	2.00	2.03	102	70-130	
1,3-Butadiene	2.00	2.27	113	60-140	
1,3-Dichlorobenzene	2.00	2.06	103	70-130	
1,4-Dichlorobenzene	2.00	2.04	102	70-130	
1,4-Dioxane	2.00	1.57	79	60-140	
2,2,4-Trimethylpentane	2.00	1.79	90	70-130	
2,3-Dimethylpentane	2.00	1.93	97	20-180	
2-Butanone (MEK)	2.00	1.58	79	60-140	
2-Hexanone	2.00	1.53	76	60-140	
2-Methylbutane	2.00	2.27	113	70-130	
2-Methylpentane	2.00	1.81	90	20-180	
4-Ethyltoluene	2.00	2.05	102	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.53	76	60-140	
Acetone	2.00	1.92 J	96	60-140	
Benzene	2.00	2.05	102	70-130	
Benzyl chloride	2.00	2.12	106	70-130	
Bromodichloromethane	2.00	2.26	113	70-130	
Bromoform	2.00	1.71	86	60-140	
Bromomethane	2.00	2.53	126	70-130	
Carbon disulfide	2.00	2.16	108	70-130	
Carbon tetrachloride	2.00	2.45	123	70-130	
Chlorobenzene	2.00	1.98	99	70-130	
Chloroethane	2.00	2.48	124	70-130	
Chloroform	2.00	2.23	111	70-130	
Chloromethane	2.00	2.24	112	60-140	
cis-1,2-Dichloroethene	2.00	1.90	95	70-130	
cis-1,3-Dichloropropene	2.00	2.17	108	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC14-LCS.d

Lab ID: LCS 140-958/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.93	96	70-130	
Dibromochloromethane	2.00	2.02	101	70-130	
Dichlorodifluoromethane	2.00	2.49	124	60-140	
Ethanol	10.0	10.3	103	20-180	
Ethylbenzene	2.00	2.05	102	70-130	
Heptane	2.00	1.92	96	70-130	
Hexachlorobutadiene	2.00	2.03	101	60-140	
Hexane	2.00	1.86	93	70-130	
Indane	2.00	2.09	105	20-180	
Indene	2.00	2.16	108	20-180	
Isopropyl alcohol	2.00	1.97	98	60-140	
Methyl tert-butyl ether	2.00	2.19	110	60-140	
Methylene Chloride	2.00	2.14	107	70-130	
m-Xylene & p-Xylene	4.00	4.41	110	70-130	
Naphthalene	2.00	1.49	75	40-140	
o-Xylene	2.00	2.10	105	70-130	
Propene	2.00	1.89	94	60-140	
Styrene	2.00	2.12	106	70-130	
Tetrachloroethene	2.00	1.87	94	70-130	
Tetrahydrofuran	2.00	1.66	83	60-140	
Thiophene	2.00	1.99	99	20-180	
Toluene	2.00	1.94	97	70-130	
trans-1,2-Dichloroethene	2.00	1.99	100	70-130	
trans-1,3-Dichloropropene	2.00	1.99	100	70-130	
Trichloroethene	2.00	1.89	95	70-130	
Trichlorofluoromethane	2.00	2.64	132	60-140	
Vinyl chloride	2.00	2.47	124	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.28	114	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22	111	70-130	
1,1,2-Trichloroethane	2.00	2.11	106	70-130	
1,1-Dichloroethane	2.00	2.03	102	70-130	
1,1-Dichloroethene	2.00	2.07	104	70-130	
1,2,4-Trichlorobenzene	2.00	2.21	110	60-140	
1,2,4-Trimethylbenzene	2.00	2.40	120	70-130	
1,2-Dibromoethane (EDB)	2.00	2.19	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65	133	60-140	
1,2-Dichlorobenzene	2.00	2.33	117	70-130	
1,2-Dichloroethane	2.00	2.31	115	70-130	
1,2-Dichloropropane	2.00	1.97	99	70-130	
1,3,5-Trimethylbenzene	2.00	2.24	112	70-130	
1,3-Butadiene	2.00	2.43	122	60-140	
1,3-Dichlorobenzene	2.00	2.33	116	70-130	
1,4-Dichlorobenzene	2.00	2.31	115	70-130	
1,4-Dioxane	2.00	1.83	91	60-140	
2,2,4-Trimethylpentane	2.00	1.85	92	70-130	
2,3-Dimethylpentane	2.00	1.95	97	20-180	
2-Butanone (MEK)	2.00	1.63	82	60-140	
2-Hexanone	2.00	1.77	89	60-140	
2-Methylbutane	2.00	2.40	120	70-130	
2-Methylpentane	2.00	1.79	90	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.81	90	60-140	
Acetone	2.00	1.98 J	99	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.54	127	70-130	
Bromodichloromethane	2.00	2.31	116	70-130	
Bromoform	2.00	2.57	129	60-140	
Bromomethane	2.00	2.64	132	70-130	*
Carbon disulfide	2.00	2.07	103	70-130	
Carbon tetrachloride	2.00	2.43	121	70-130	
Chlorobenzene	2.00	2.16	108	70-130	
Chloroethane	2.00	2.65	133	70-130	*
Chloroform	2.00	2.25	112	70-130	
Chloromethane	2.00	2.20	110	60-140	
cis-1,2-Dichloroethene	2.00	1.99	99	70-130	
cis-1,3-Dichloropropene	2.00	2.19	110	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.99	100	70-130	
Dibromochloromethane	2.00	2.40	120	70-130	
Dichlorodifluoromethane	2.00	2.53	126	60-140	
Ethanol	10.0	10.8	108	20-180	
Ethylbenzene	2.00	2.25	112	70-130	
Heptane	2.00	2.03	101	70-130	
Hexachlorobutadiene	2.00	2.42	121	60-140	
Hexane	2.00	1.87	93	70-130	
Indane	2.00	2.34	117	20-180	
Indene	2.00	2.44	122	20-180	
Isopropyl alcohol	2.00	2.28	114	60-140	
Methyl tert-butyl ether	2.00	2.23	111	60-140	
Methylene Chloride	2.00	2.09	105	70-130	
m-Xylene & p-Xylene	4.00	4.73	118	70-130	
Naphthalene	2.00	2.51	125	40-140	
o-Xylene	2.00	2.27	114	70-130	
Propene	2.00	1.83	92	60-140	
Styrene	2.00	2.32	116	70-130	
Tetrachloroethene	2.00	2.11	106	70-130	
Tetrahydrofuran	2.00	1.65	82	60-140	
Thiophene	2.00	2.04	102	20-180	
Toluene	2.00	2.12	106	70-130	
trans-1,2-Dichloroethene	2.00	2.05	103	70-130	
trans-1,3-Dichloropropene	2.00	2.23	111	70-130	
Trichloroethene	2.00	1.99	99	70-130	
Trichlorofluoromethane	2.00	2.69	135	60-140	
Vinyl chloride	2.00	2.52	126	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab File ID: MB200mL.D Lab Sample ID: MB 140-958/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/14/2014 14:09

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-958/1002	ECCVC14-LCS .d	03/14/2014 09:55
PCV-IA3-B21	140-1054-1	EC14P202.D	03/15/2014 05:49
PCV-IA2-B19	140-1054-2	EC14P203.D	03/15/2014 06:34
PCV-IA1-B21	140-1054-3	EC14P204.D	03/15/2014 07:19
PCV-IA1-B19	140-1054-4	EC14P205.D	03/15/2014 08:05

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab File ID: EMBC17.D Lab Sample ID: MB 140-967/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/17/2014 17:11

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014 14:10
PCV-IA2-B21	140-1054-6	EC17POS108.D	03/17/2014 23:15
PCV-IA3-B19	140-1054-5	EC17POS107R.D	03/18/2014 09:06

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab File ID: EBFBC14.D BFB Injection Date: 03/14/2014

Instrument ID: ME BFB Injection Time: 09:24

Analysis Batch No.: 958

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	6.0	(7.3)1
176	95.0 - 101.0 % of mass 174	79.9	(97.2)1
177	5.0 - 9.0 % of mass 176	5.4	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-958/2	ECCVC14.D	03/14/2014	09:55
	LCS 140-958/1002	ECCVC14-LCS.d	03/14/2014	09:55
	MB 140-958/5	MB200mL.D	03/14/2014	14:09
PCV-IA3-B21	140-1054-1	EC14P202.D	03/15/2014	05:49
PCV-IA2-B19	140-1054-2	EC14P203.D	03/15/2014	06:34
PCV-IA1-B21	140-1054-3	EC14P204.D	03/15/2014	07:19
PCV-IA1-B19	140-1054-4	EC14P205.D	03/15/2014	08:05

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab File ID: EBFBC17.D BFB Injection Date: 03/17/2014

Instrument ID: ME BFB Injection Time: 13:39

Analysis Batch No.: 967

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	56.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.3)1
176	95.0 - 101.0 % of mass 174	79.2	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-967/2	ECCVC17.D	03/17/2014	14:10
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014	14:10
	MB 140-967/5	EMBC17.D	03/17/2014	17:11
PCV-IA2-B21	140-1054-6	EC17POS108.D	03/17/2014	23:15
PCV-IA3-B19	140-1054-5	EC17POS107R.D	03/18/2014	09:06

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Sample No.: CCVIS 140-958/2 Date Analyzed: 03/14/2014 09:55

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC14.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		205602	8.35	1014056	10.58	970133	15.39
UPPER LIMIT		287843	8.68	1419678	10.91	1358186	15.72
LOWER LIMIT		123361	8.02	608434	10.25	582080	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-958/1002		205602	8.35	1014056	10.58	970133	15.39
MB 140-958/5		211730	8.33	1055190	10.57	932935	15.38
140-1054-1	PCV-IA3-B21	176494	8.33	869630	10.57	784640	15.38
140-1054-2	PCV-IA2-B19	176627	8.33	851327	10.57	721909	15.38
140-1054-3	PCV-IA1-B21	187867	8.33	913634	10.57	815563	15.38
140-1054-4	PCV-IA1-B19	175251	8.33	881219	10.57	787845	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Sample No.: CCVIS 140-967/2 Date Analyzed: 03/17/2014 14:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC17.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194987	8.34	948363	10.58	841452	15.39
UPPER LIMIT		272982	8.67	1327708	10.91	1178033	15.72
LOWER LIMIT		116992	8.01	569018	10.25	504871	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-967/1002		194987	8.34	948363	10.58	841452	15.39
MB 140-967/5		189632	8.33	941923	10.57	834864	15.38
140-1054-6	PCV-IA2-B21	228303	8.34	1110280	10.57	967018	15.38
140-1054-5	PCV-IA3-B19	166198	8.33	770333	10.57	683106	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.073	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.072	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.057	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.40	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.9		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.39		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.091	J	0.50	0.045
67-64-1	Acetone	58.08	8.6		5.0	1.4
71-43-2	Benzene	78.11	0.29		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.047	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.060	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.55		0.20	0.068
64-17-5	Ethanol	46.07	34		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.076	J	0.20	0.068
142-82-5	Heptane	100.21	0.083	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	2.8		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.48	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.27		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.11	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.041	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.35		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.56	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.35	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.27	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	5.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.4		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.37	J	2.0	0.18
67-64-1	Acetone	58.08	20		12	3.3
71-43-2	Benzene	78.11	0.92		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.23	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.21	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.7		0.99	0.34
64-17-5	Ethanol	46.07	64		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.33	J	0.87	0.30
142-82-5	Heptane	100.21	0.34	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	9.8		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	20		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.49	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.28	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B21 Lab Sample ID: 140-1054-1

Matrix: Air Lab File ID: EC14P202.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 05:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D
Lims ID: 140-1054-A-1 Lab Sample ID: 140-1054-1
Client ID: PCV-IA3-B21
Sample Type: Client
Inject. Date: 15-Mar-2014 05:49:30 ALS Bottle#: 2 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-1
Misc. Info.: E031414,TO155,,140-0000522-024
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:37:34 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:37:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	176494	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	869630	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	784640	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	748298	4.36	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	96	42736	0.2189	
9 Chloromethane	52	3.530	3.530	0.0	98	3591	0.2304	
17 Ethanol	31	4.317	4.317	0.0	98	240157	13.6	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	46609	0.7541	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	24833	0.1268	
23 Acetone	58	4.873	4.883	-0.010	100	92110	3.45	
24 Isopropyl alcohol	45	4.964	4.975	-0.011	96	222738	3.24	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.611	0.006	49	3545	0.0292	
31 Methylene Chloride	84	5.784	5.795	-0.011	75	9713	0.1926	
35 2-Methylpentane	43	6.598	6.603	-0.005	84	18010	0.1550	
39 2-Butanone (MEK)	72	7.580	7.585	-0.005	54	4578	0.1585	
40 Hexane	56	7.580	7.590	-0.010	88	52368	1.12	
43 Chloroform	83	8.345	8.356	-0.011	6	2867	0.0190	
49 Cyclohexane	69	9.979	9.984	-0.005	43	788	0.0240	
48 Benzene	78	9.990	9.995	-0.005	92	20209	0.1155	
50 Carbon tetrachloride	117	10.001	10.017	-0.016	86	4633	0.0276	
53 Isooctane	57	10.777	10.788	-0.011	54	6148	0.0228	
54 n-Heptane	71	11.176	11.182	-0.006	61	2202	0.0332	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	78	3751	0.0364	
65 Toluene	91	13.398	13.403	-0.005	89	29698	0.1413	
73 Tetrachloroethene	129	14.546	14.552	-0.006	65	1457	0.0163	
76 Ethylbenzene	91	15.722	15.722	0.0	69	8182	0.0304	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	96	23249	0.1097	
82 o-Xylene	91	16.412	16.412	0.0	79	10240	0.0447	
93 1,2,4-Trimethylbenzene	105	18.229	18.224	0.005	61	6897	0.0286	

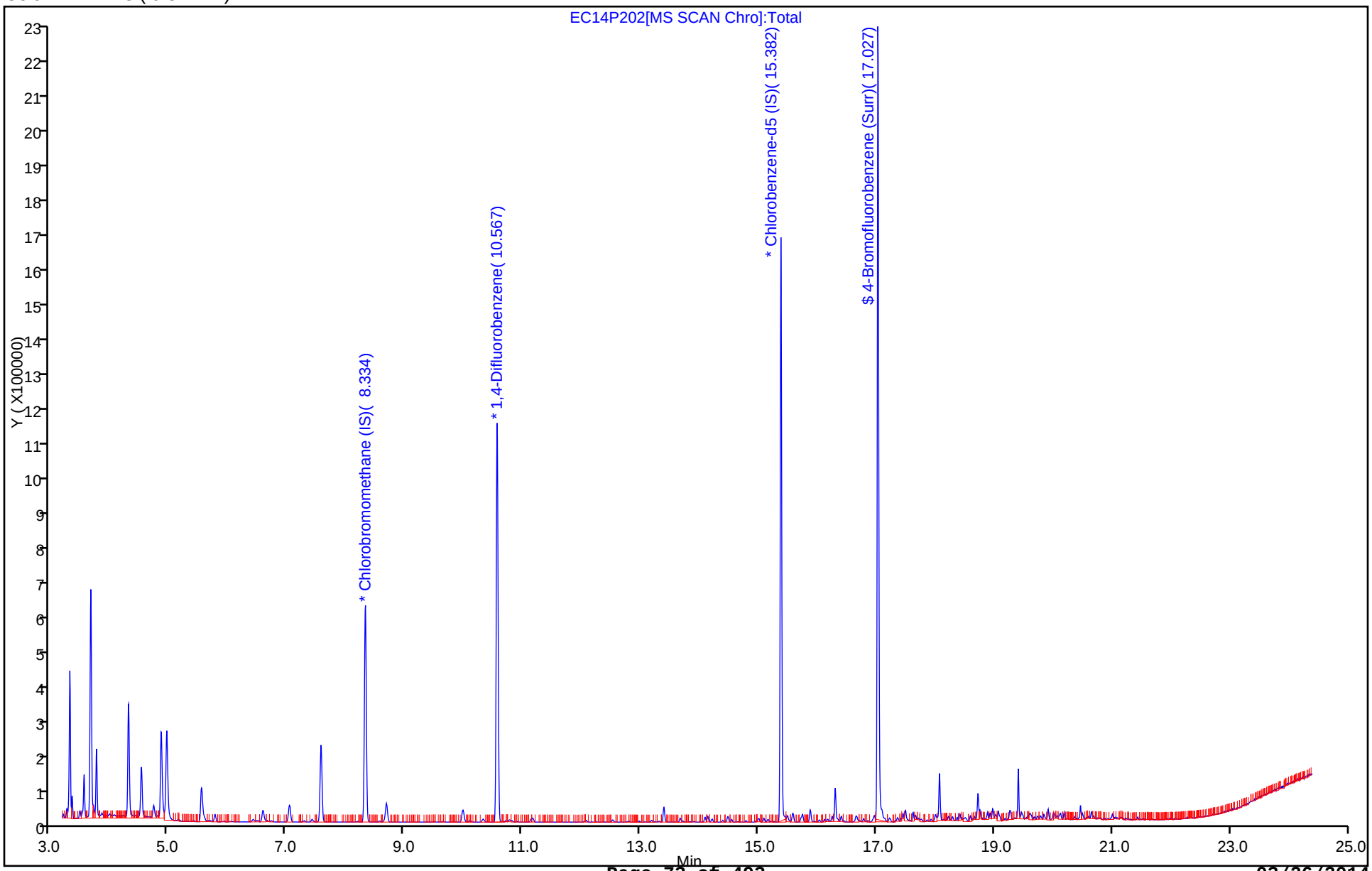
Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

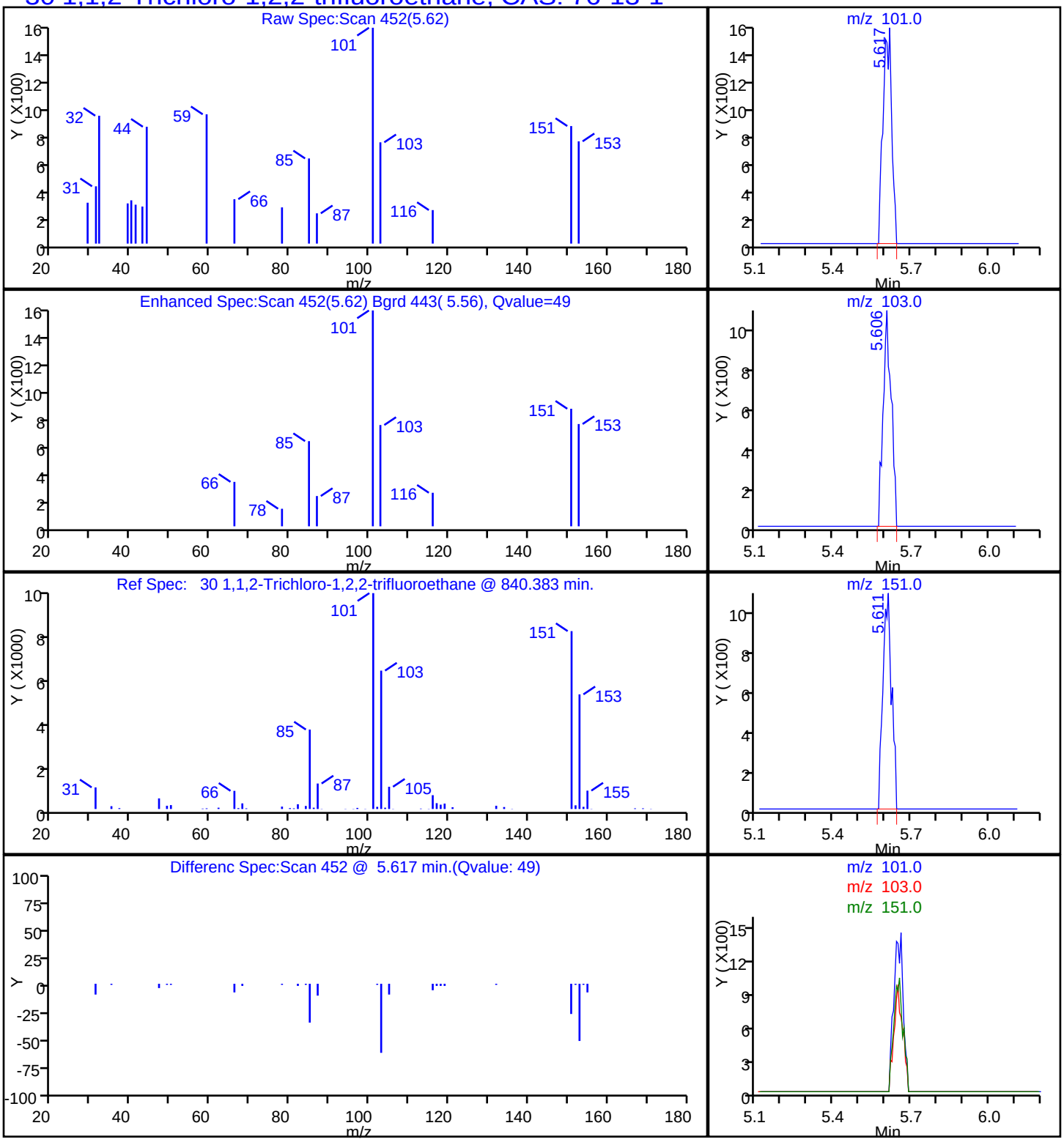
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1	Worklist Smp#:	24
Client ID:	PCV-IA3-B21				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

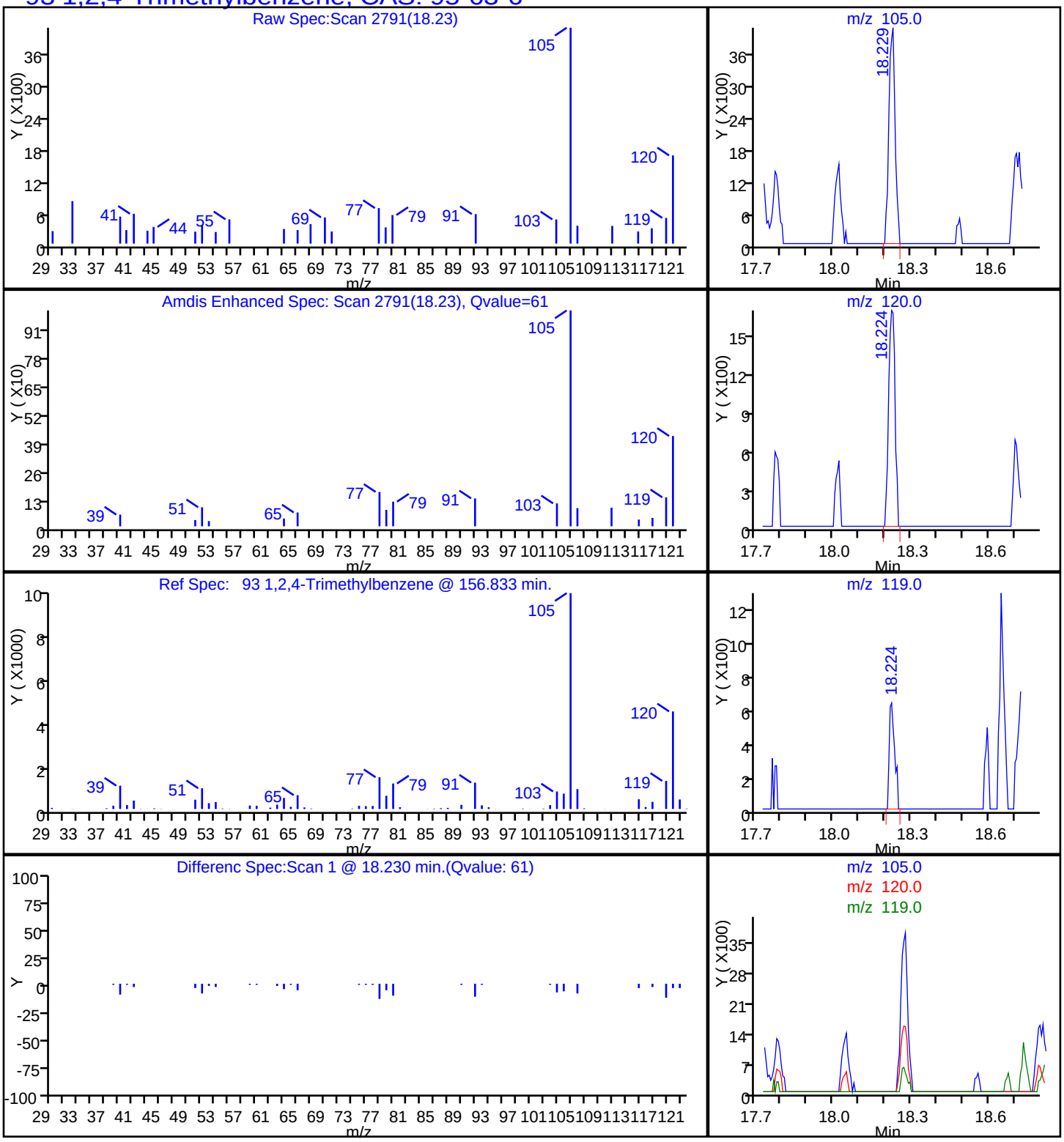


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



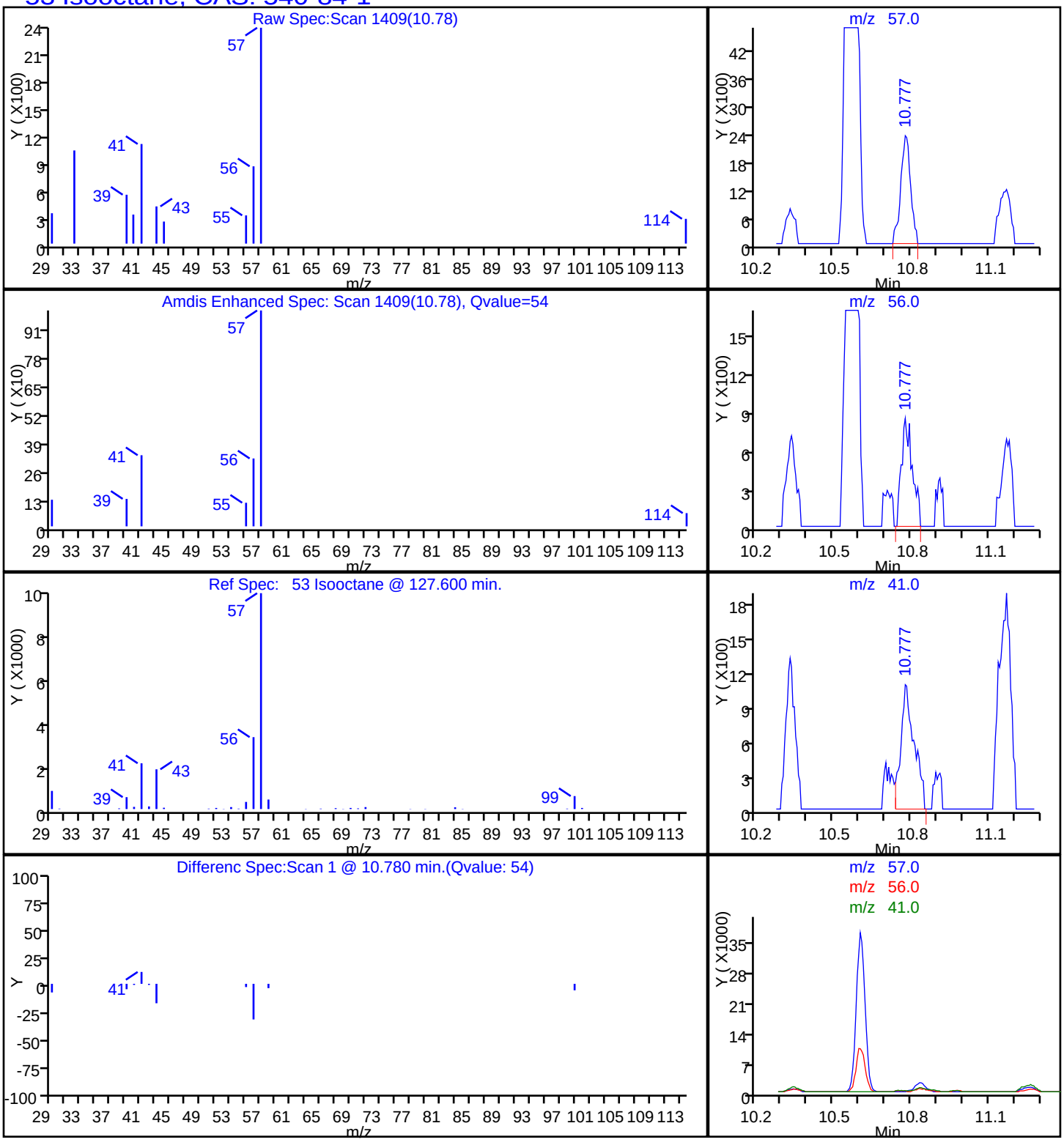
Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1

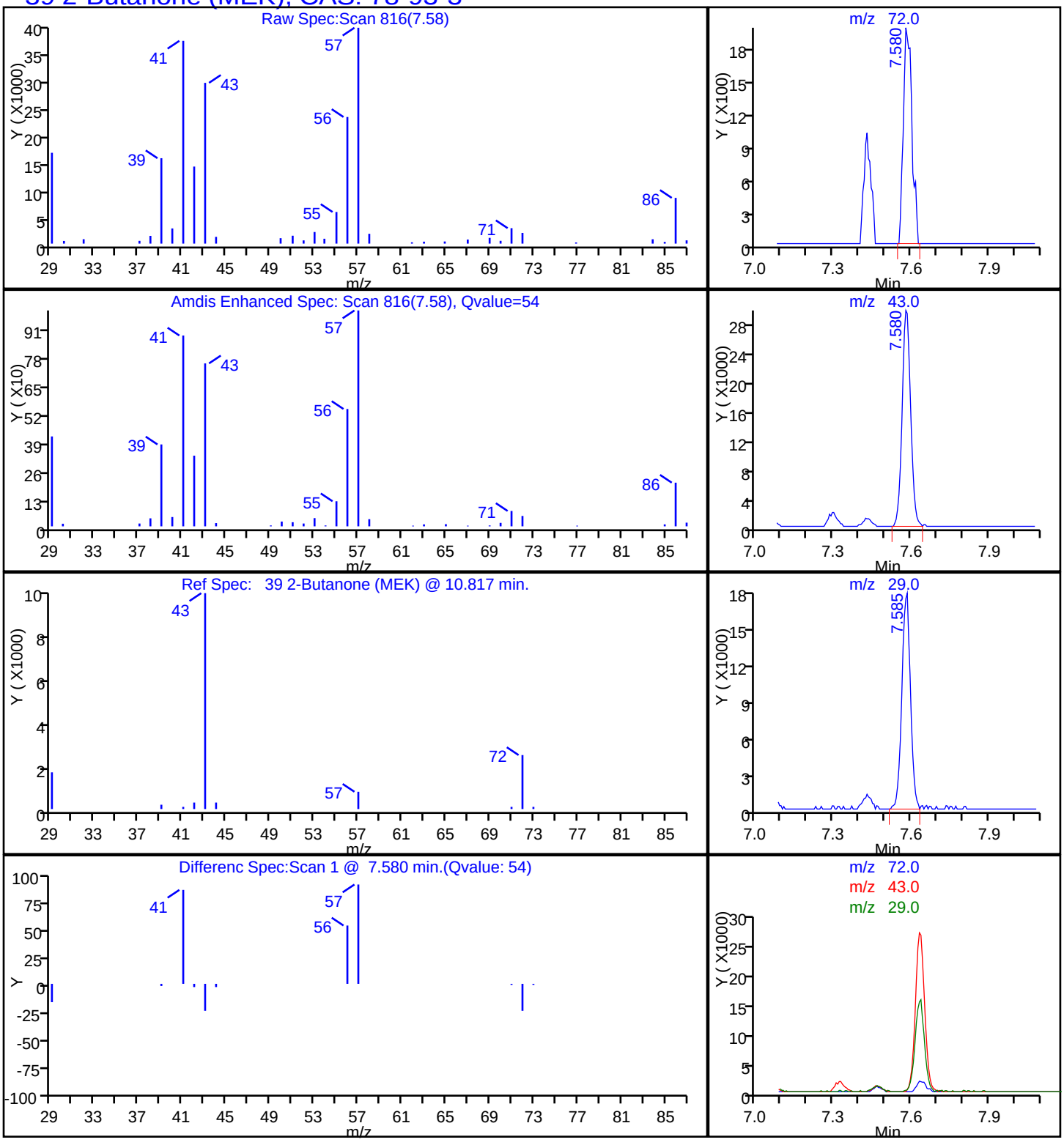


Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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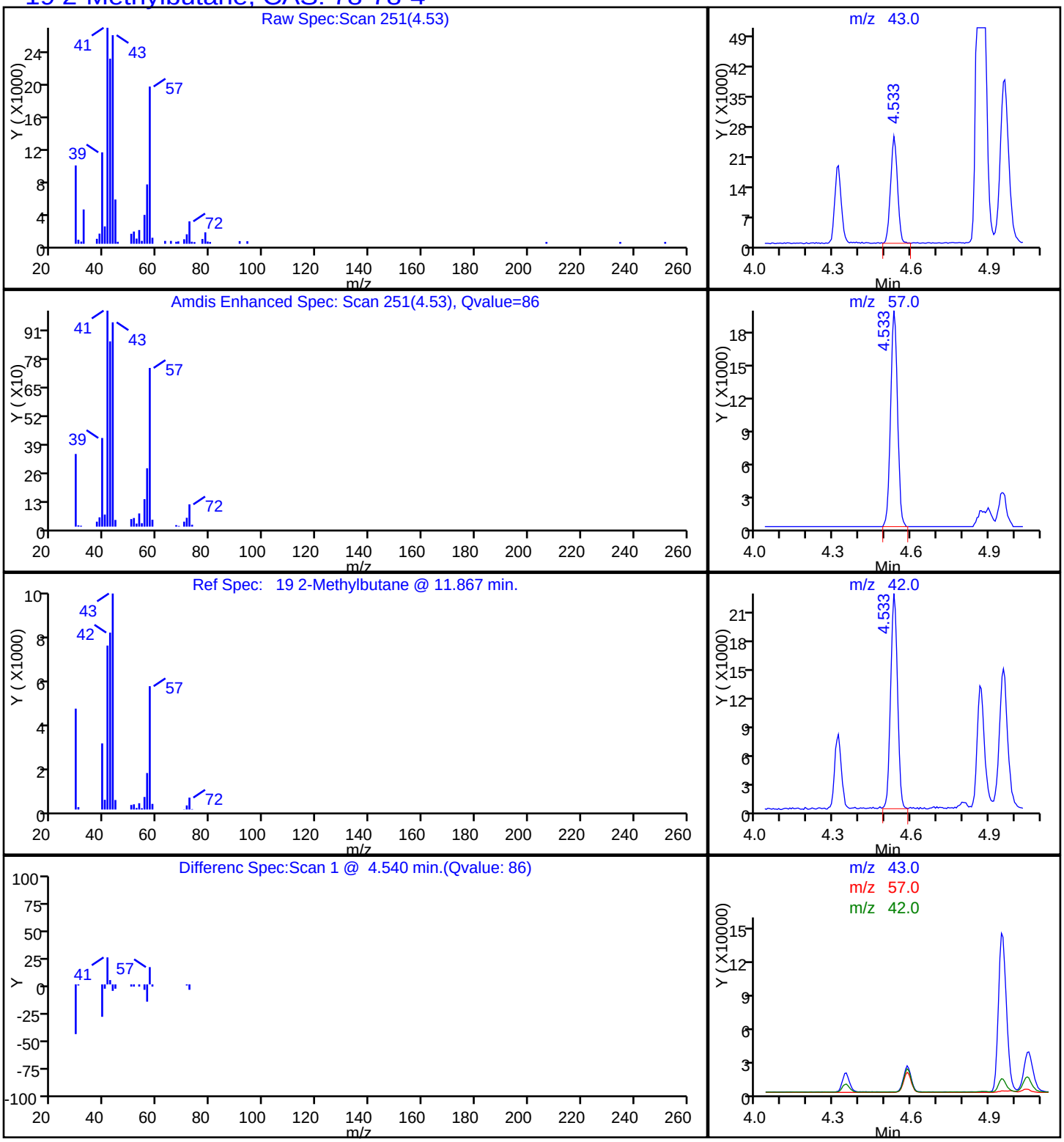
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

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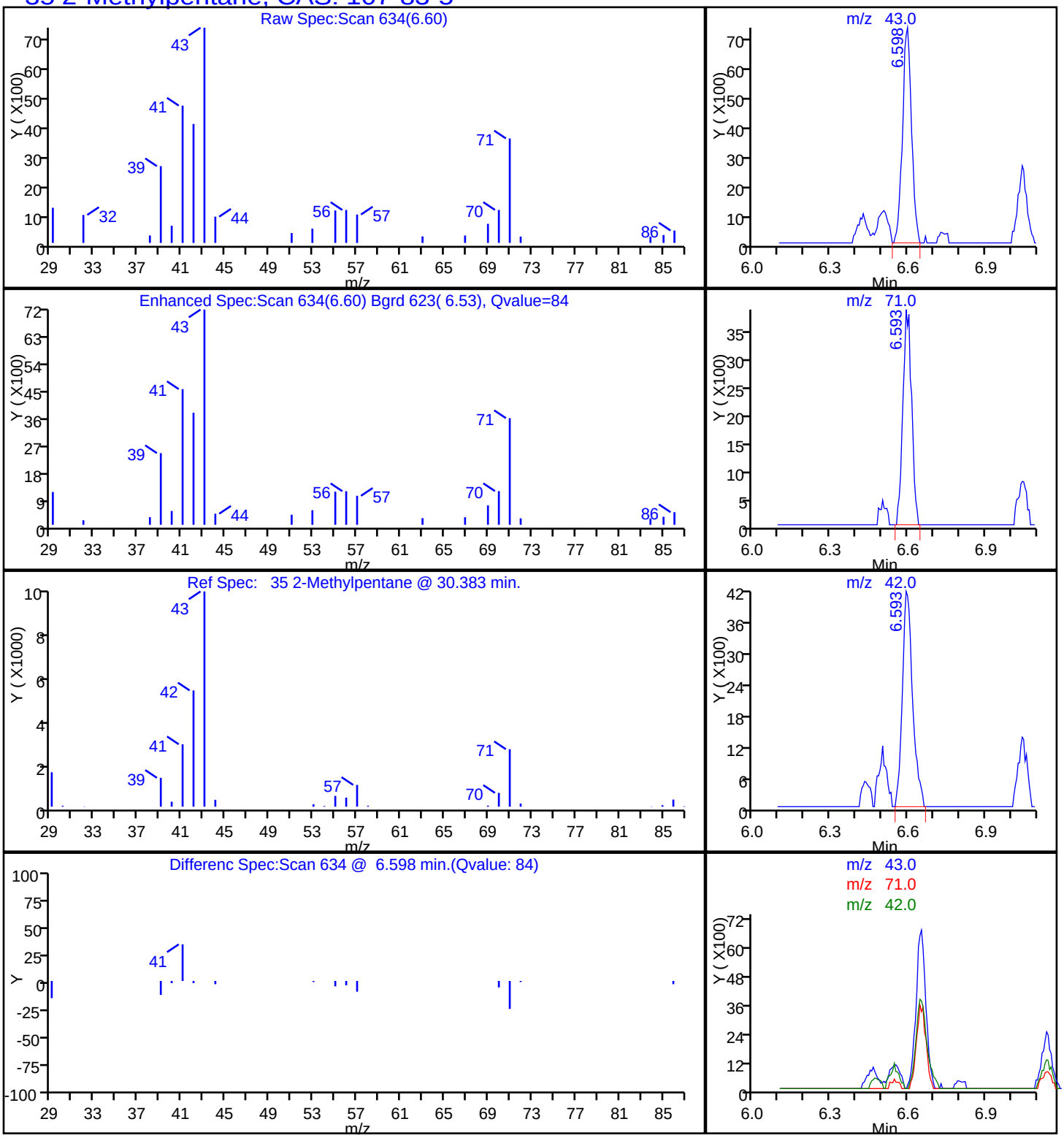
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5

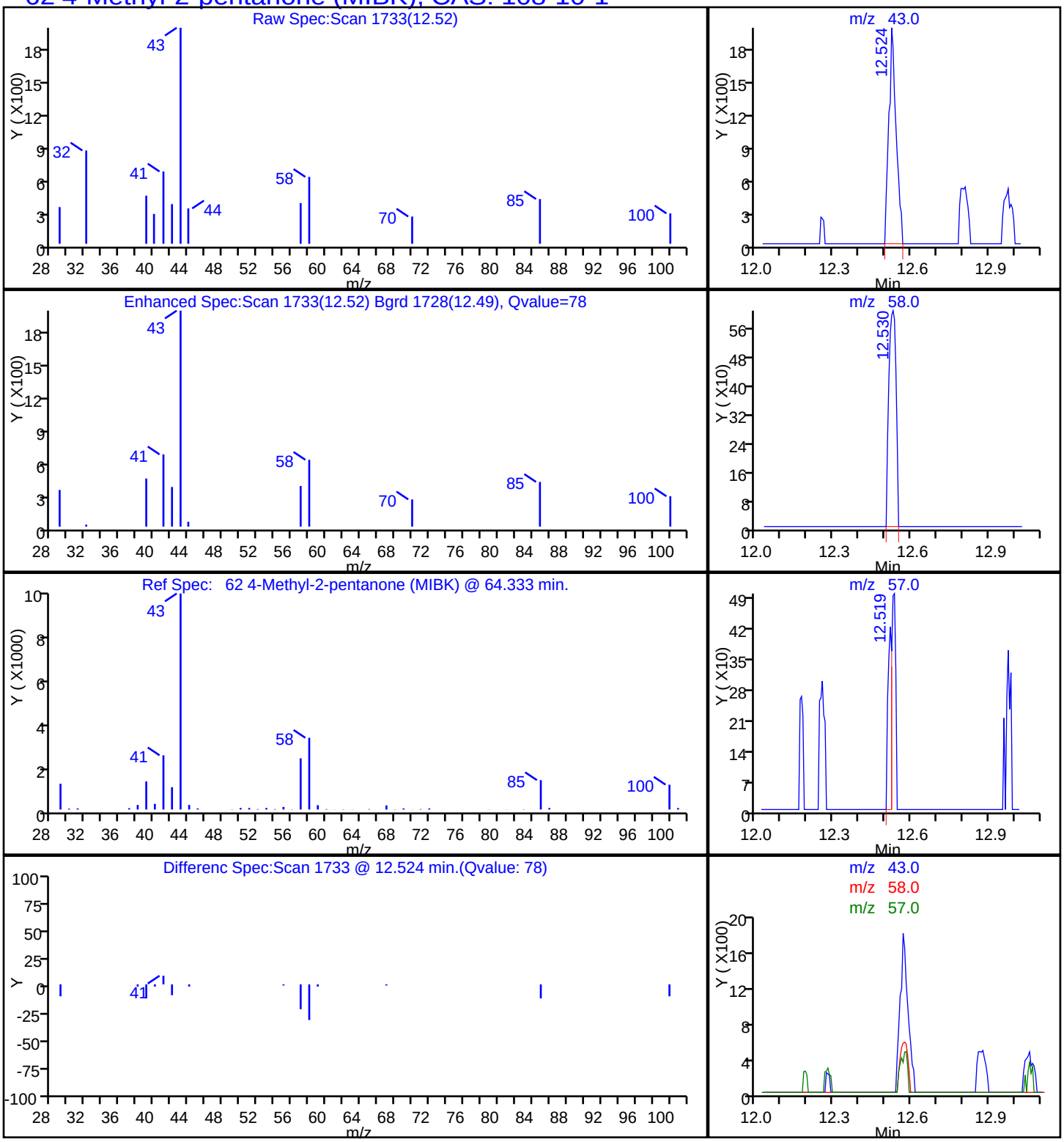


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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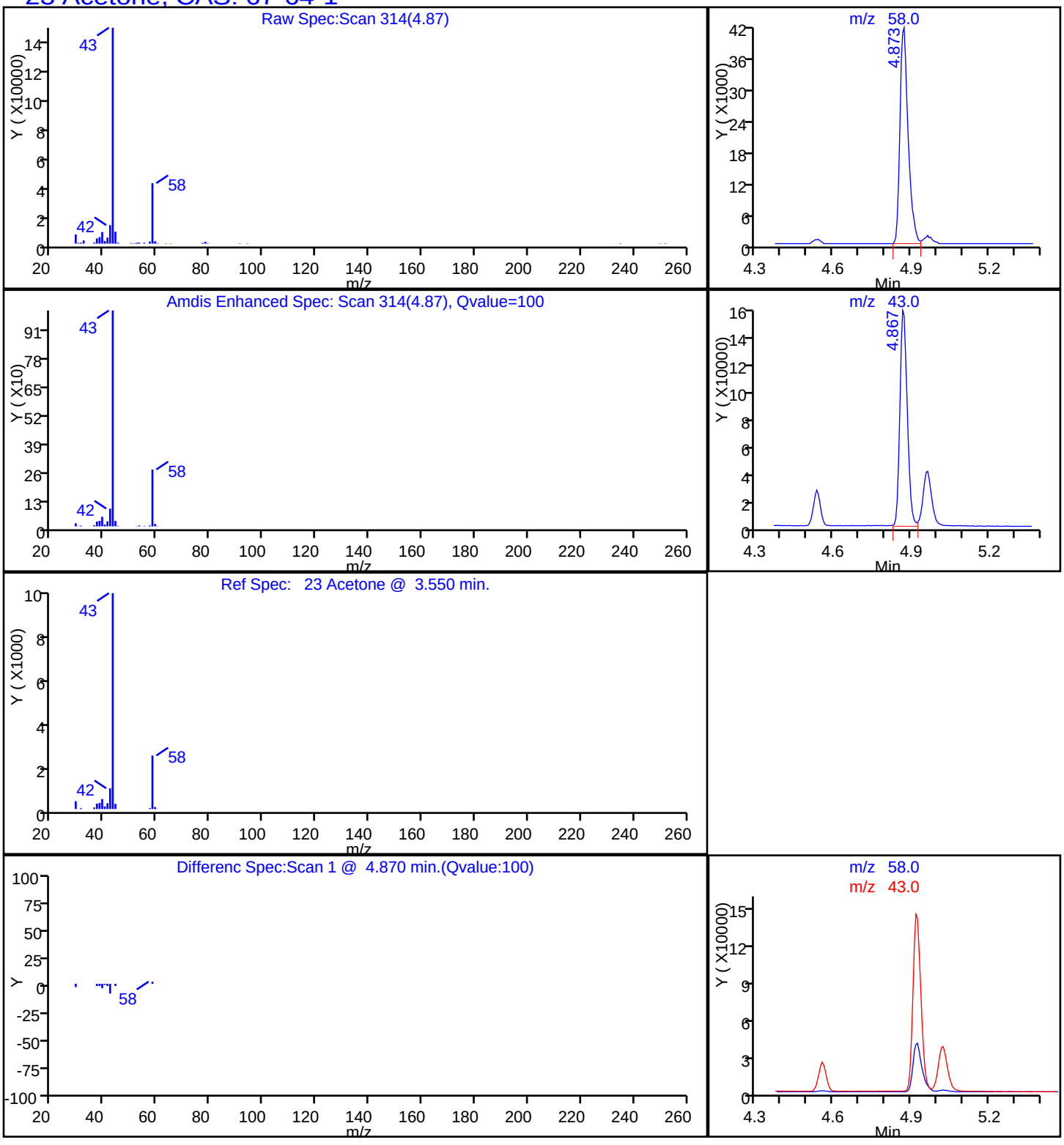
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

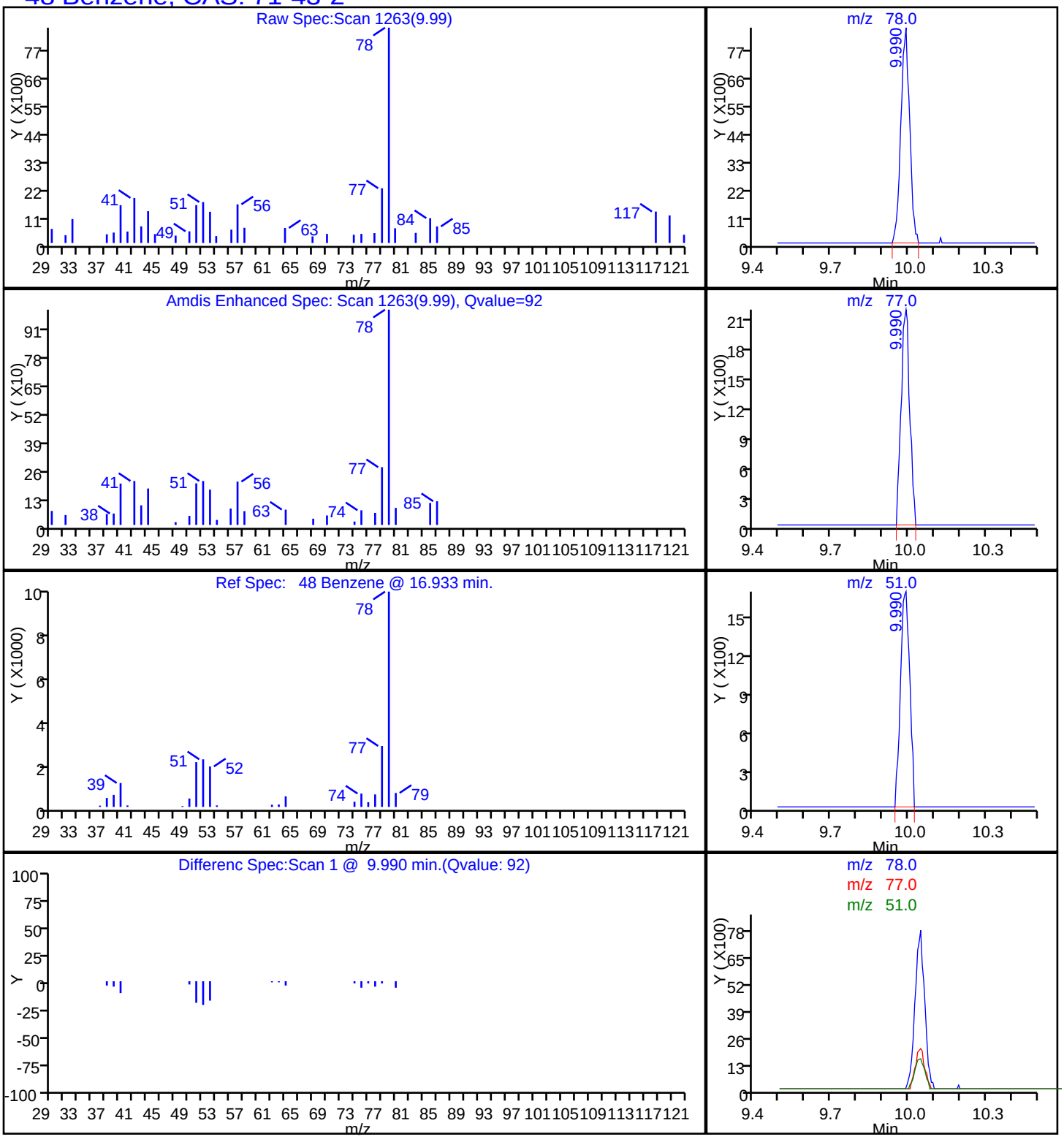


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



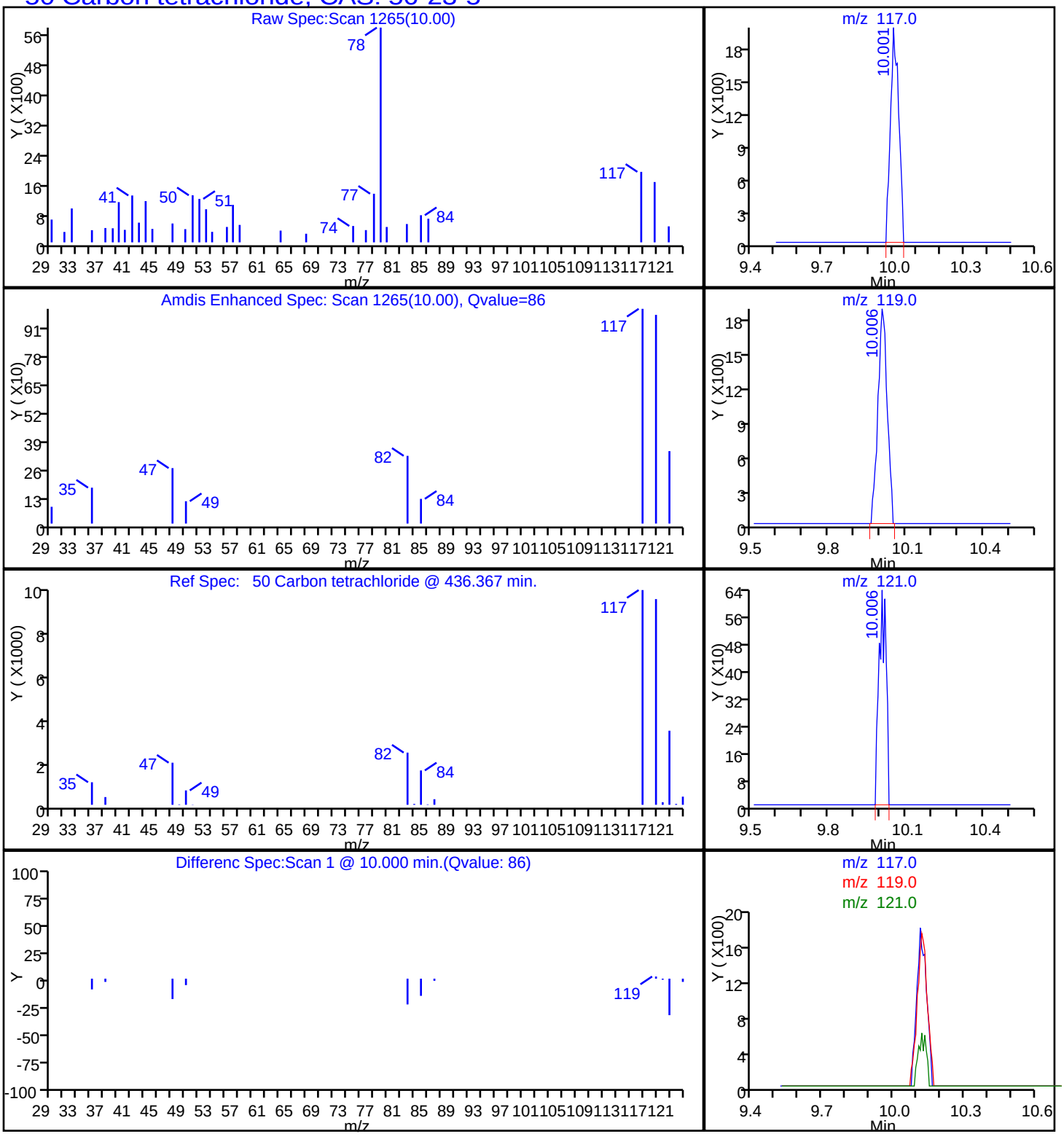
Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

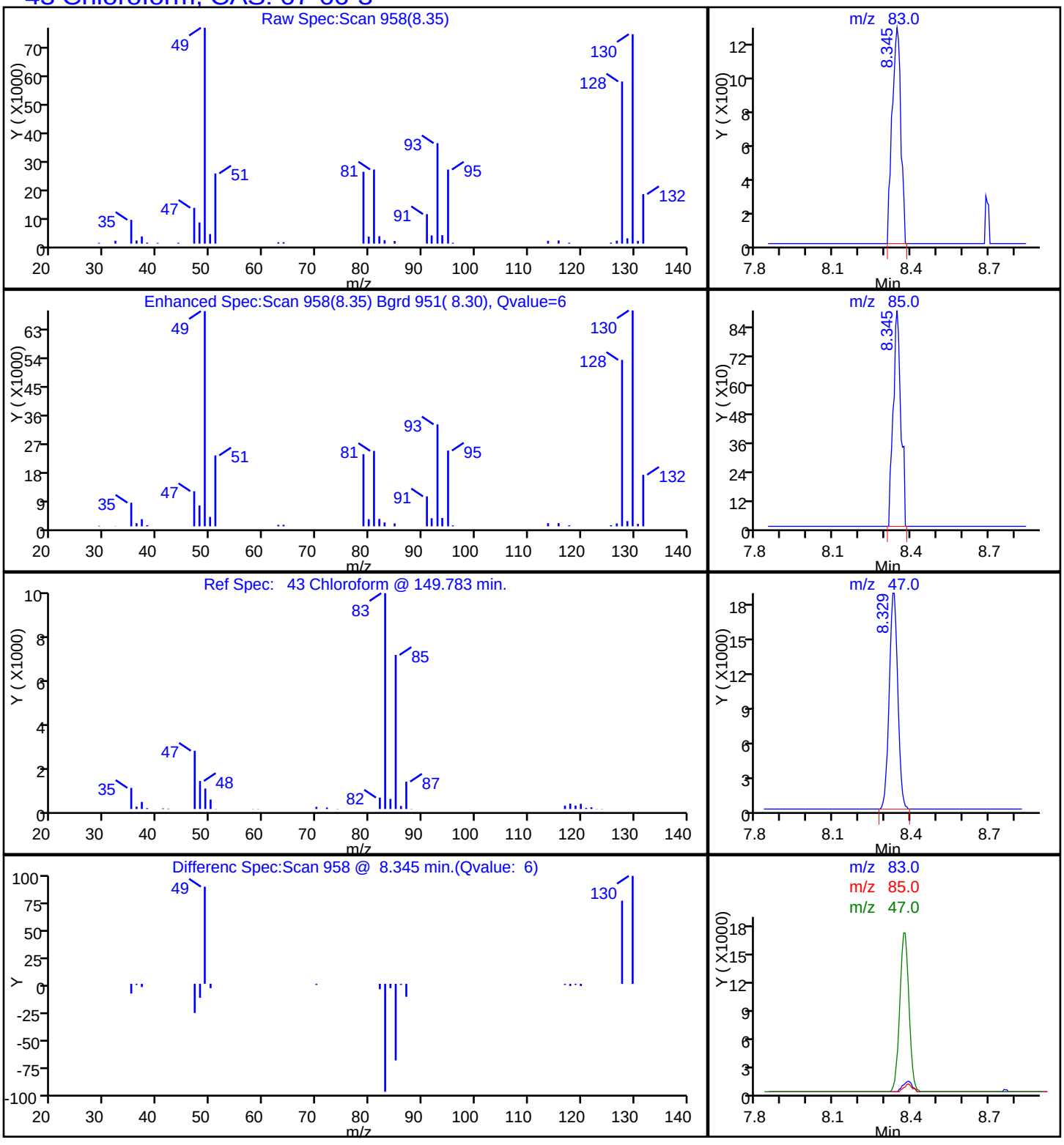


Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



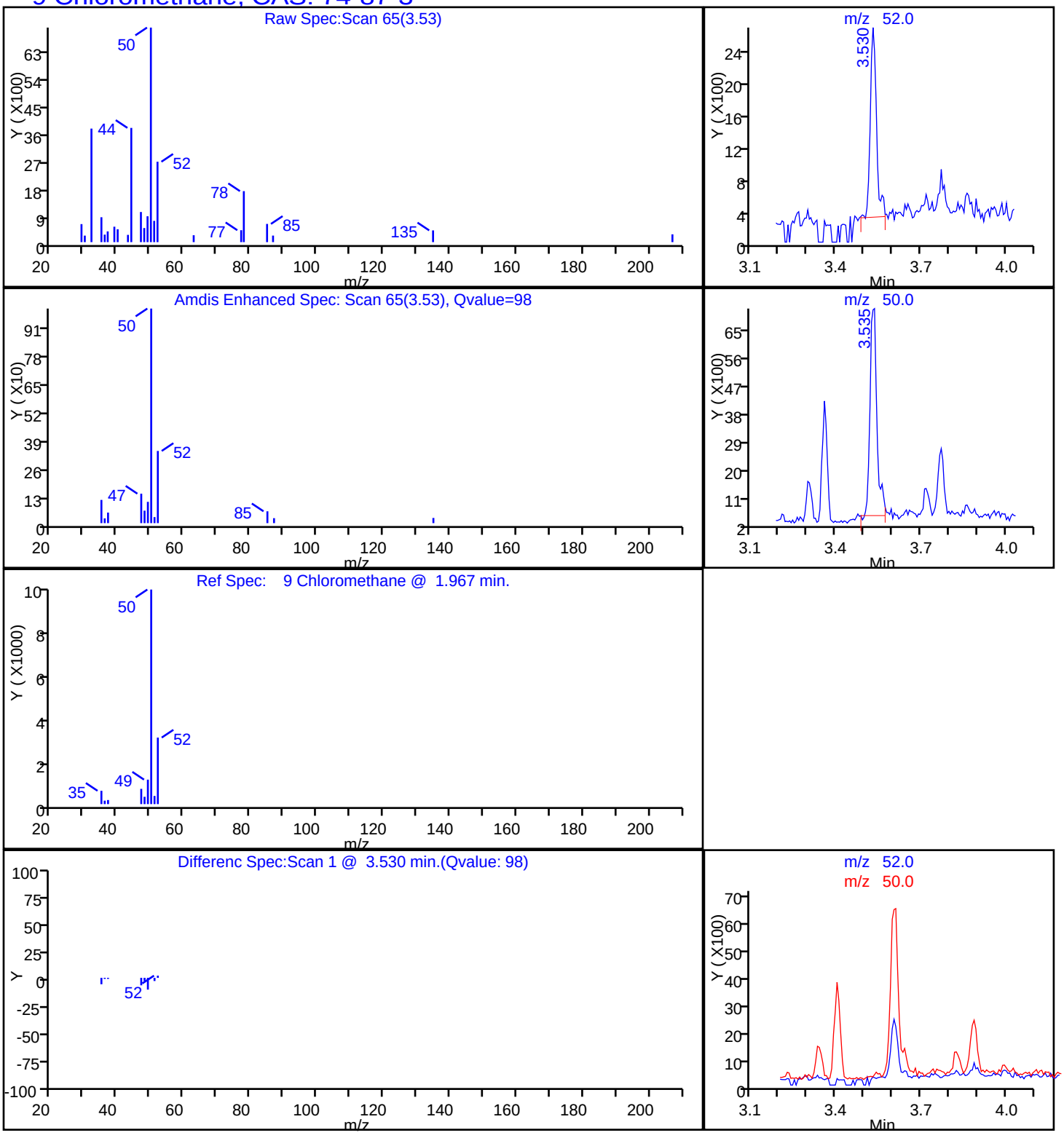
Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

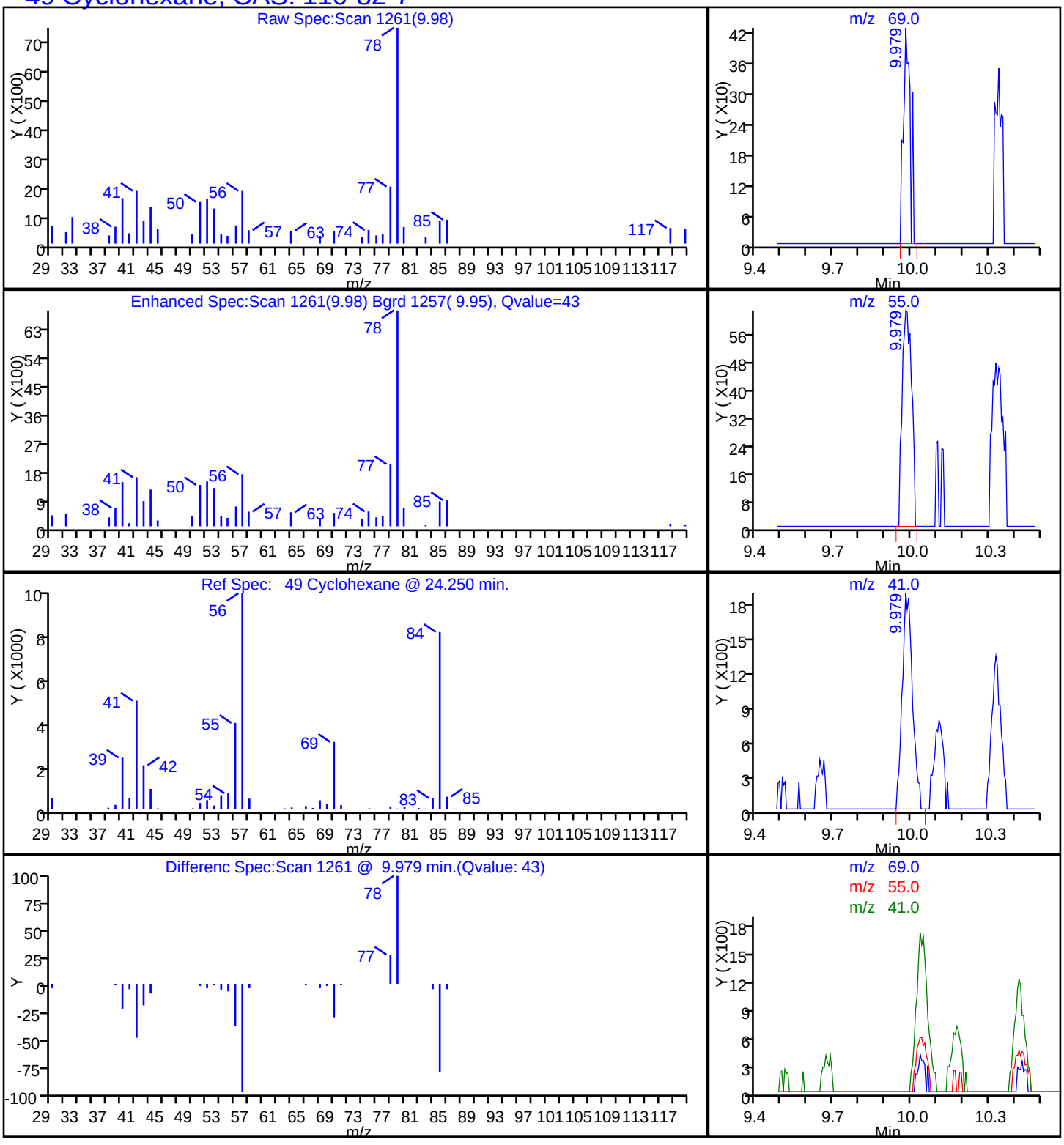


Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
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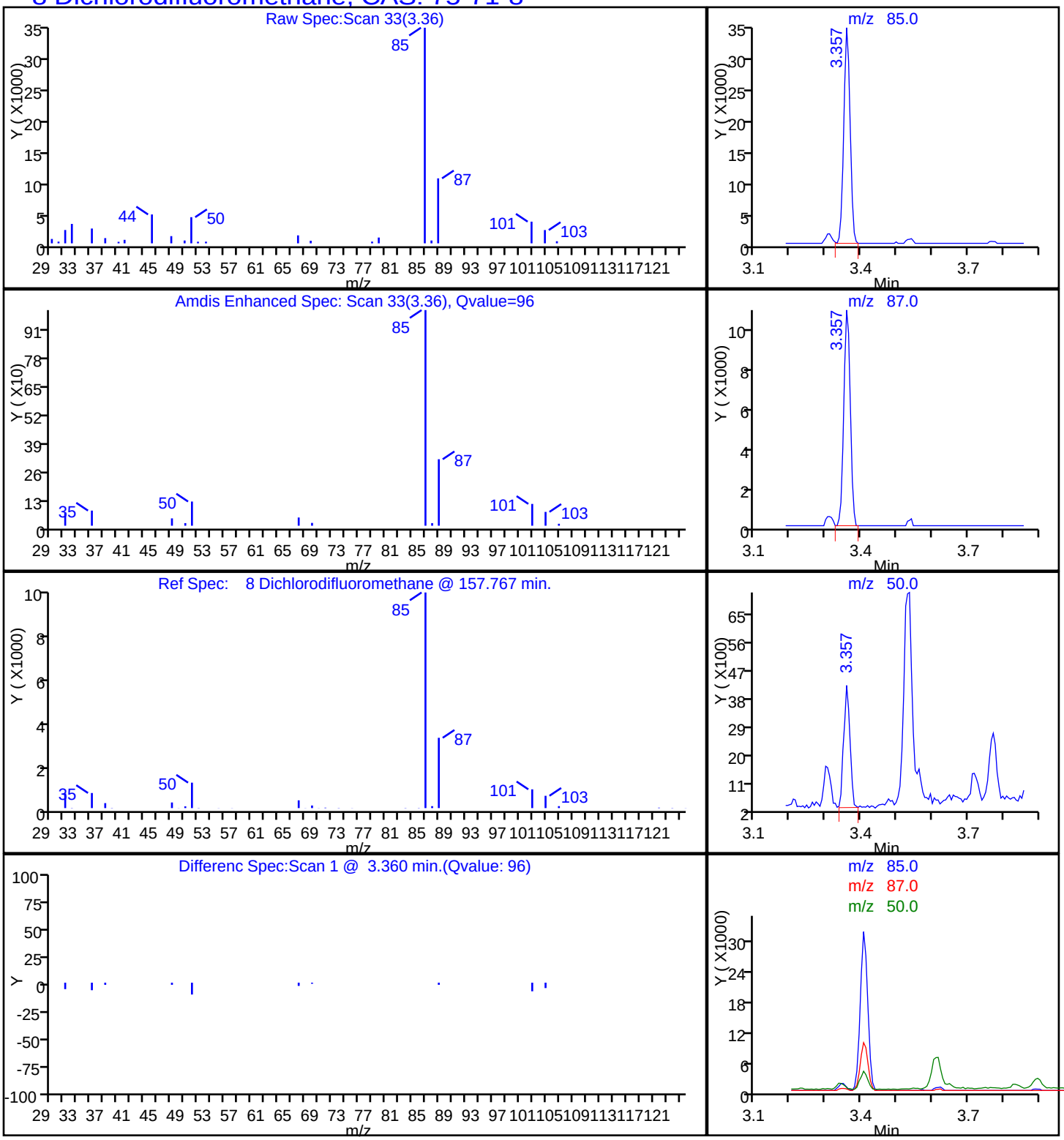
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

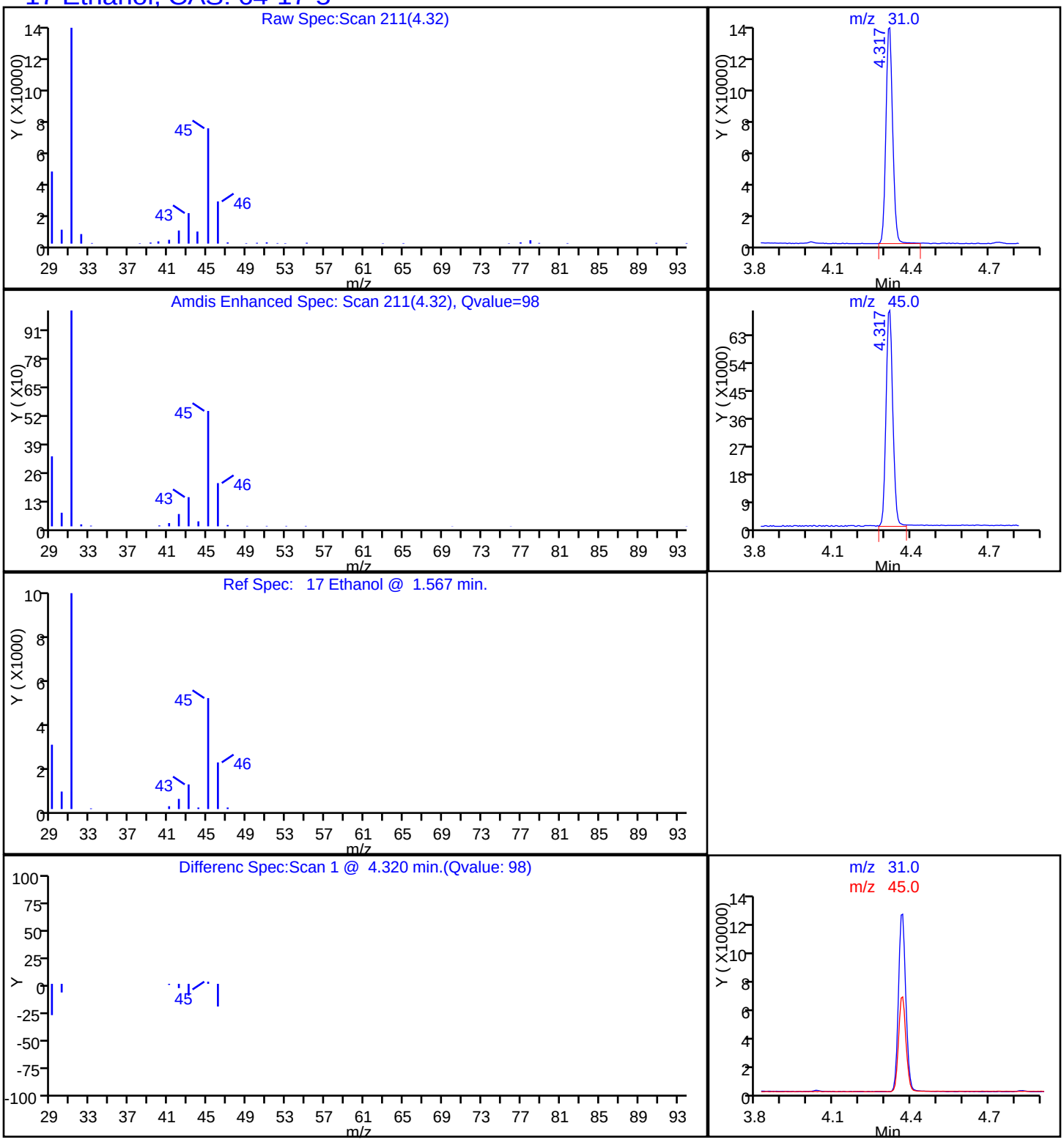


Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



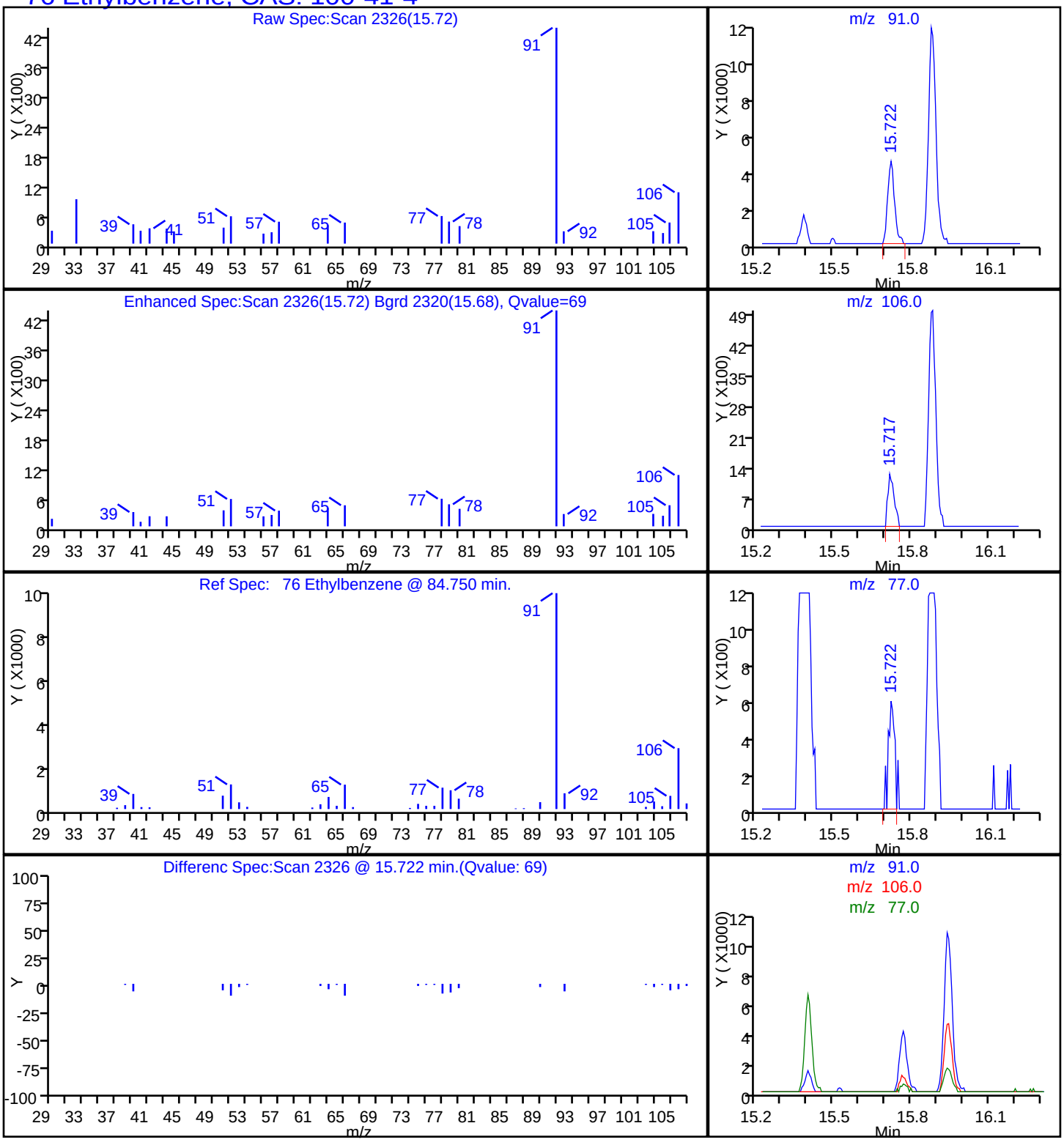
Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

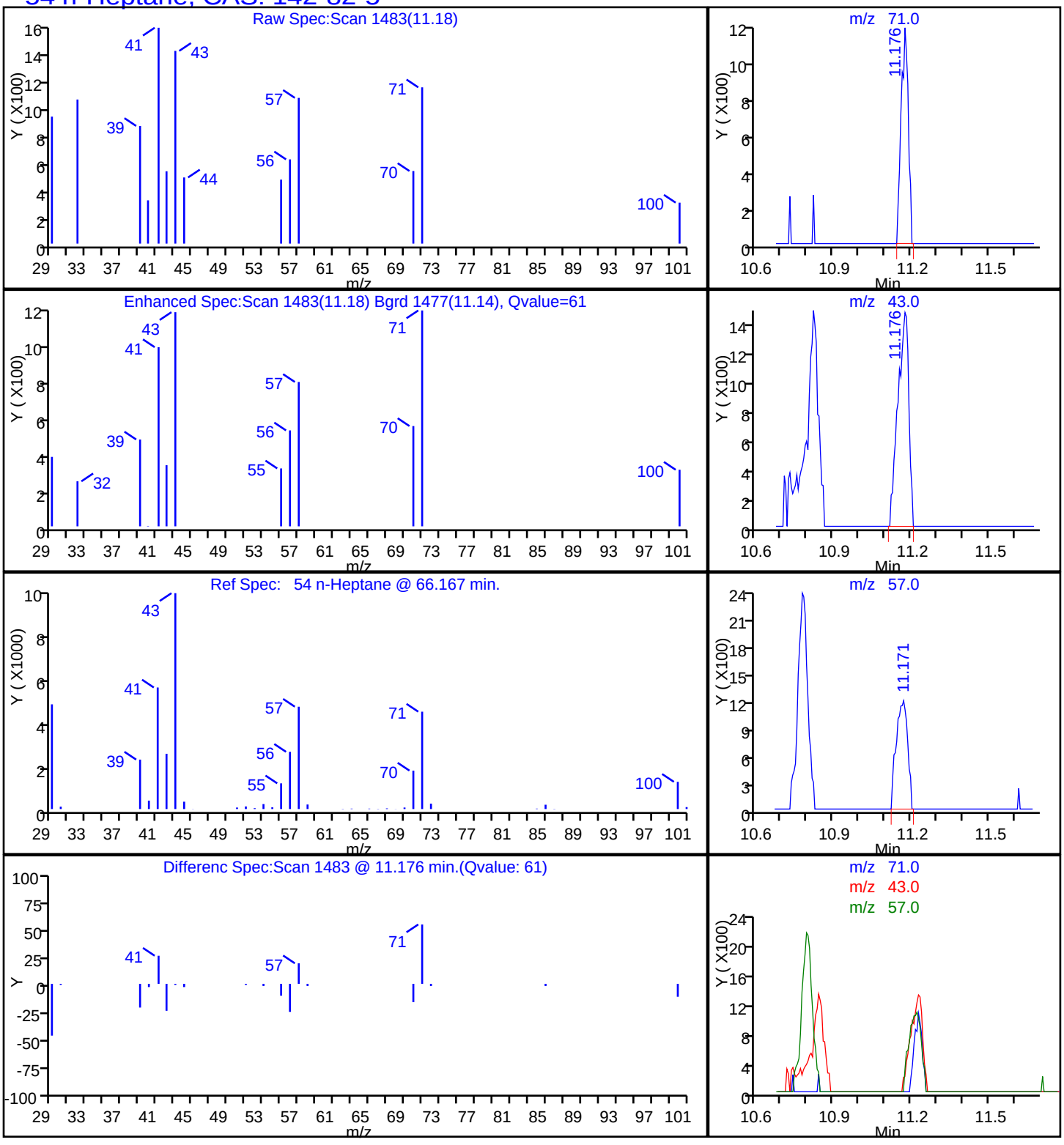


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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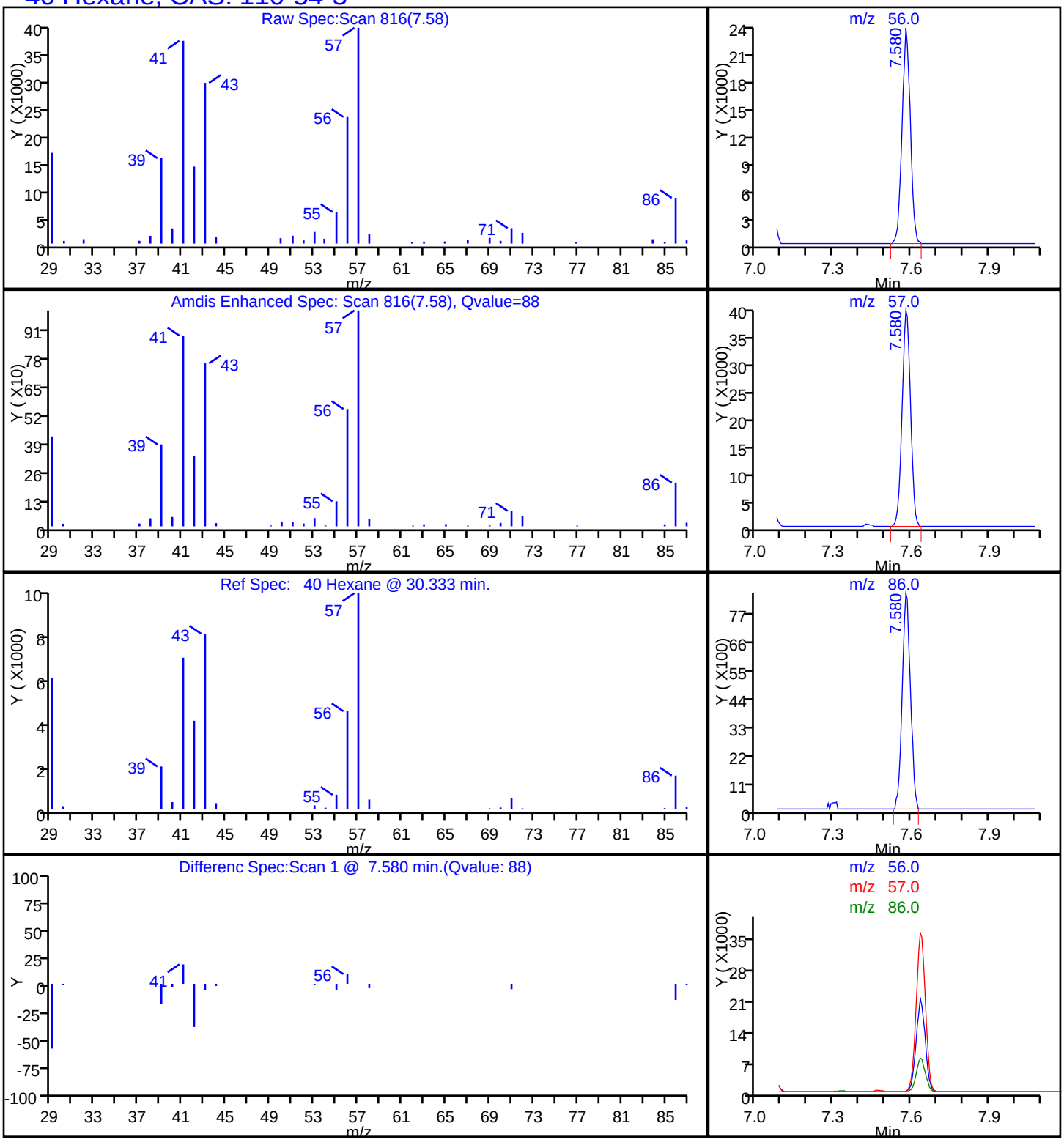
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



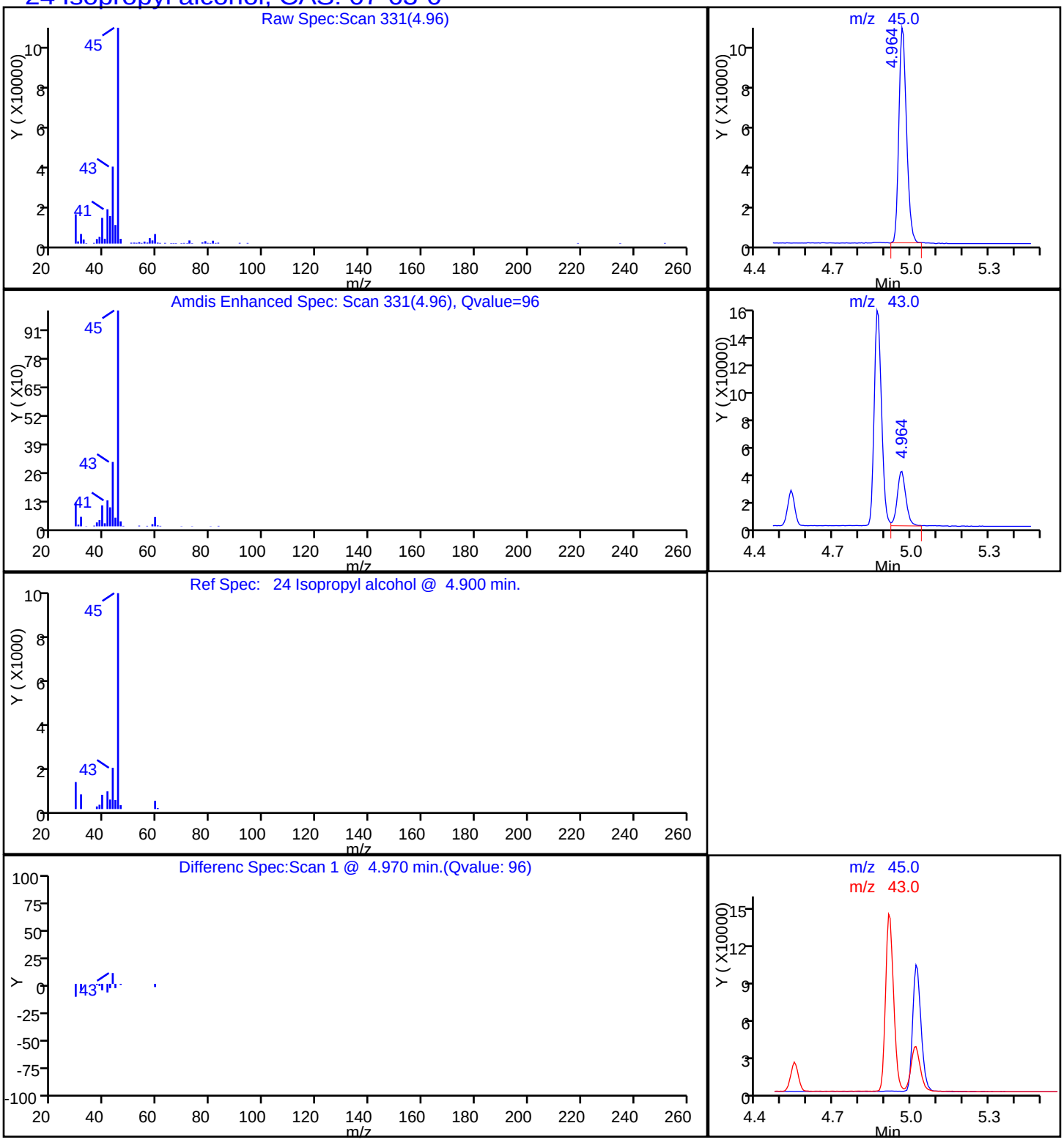
Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



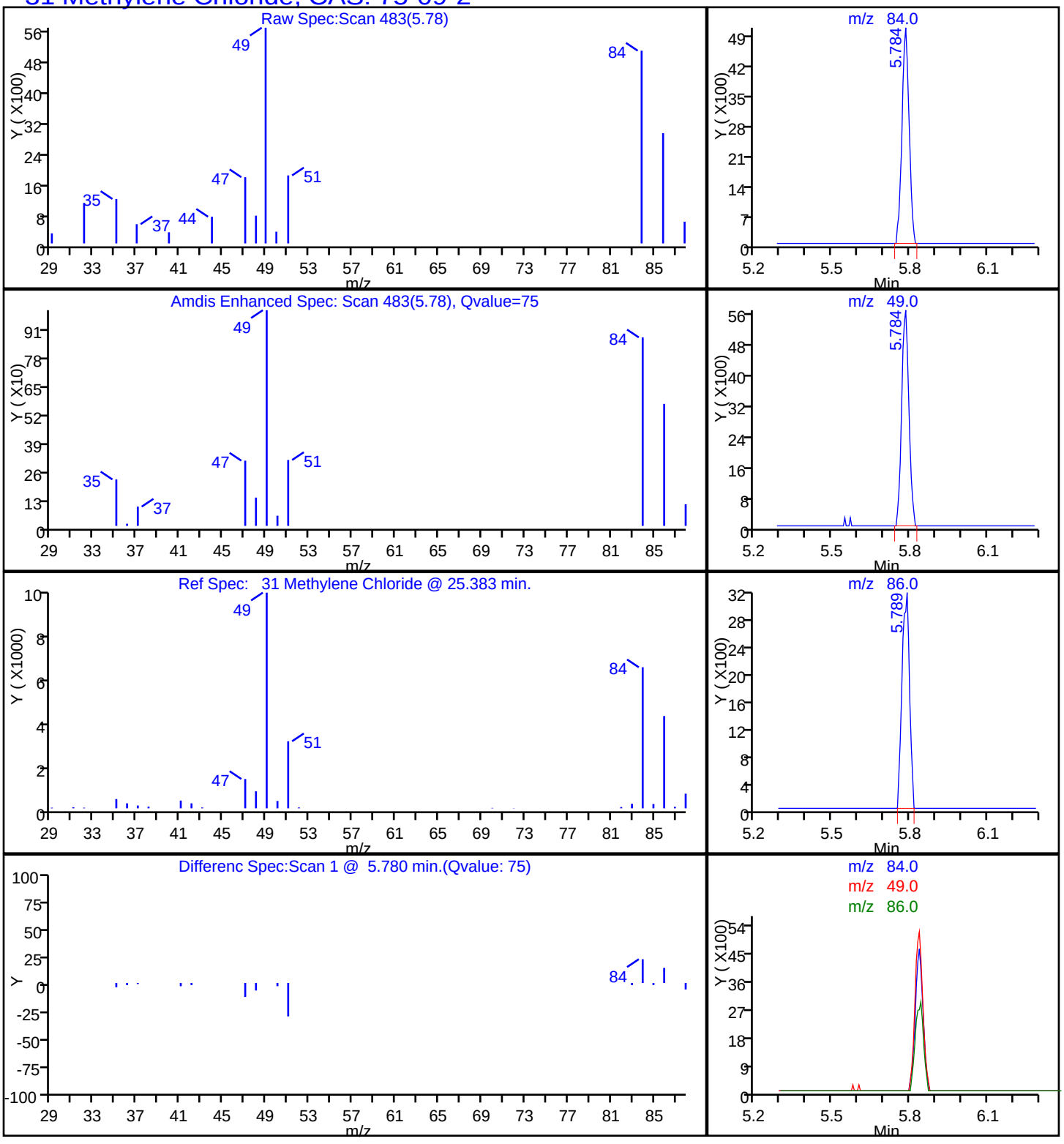
Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D

Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

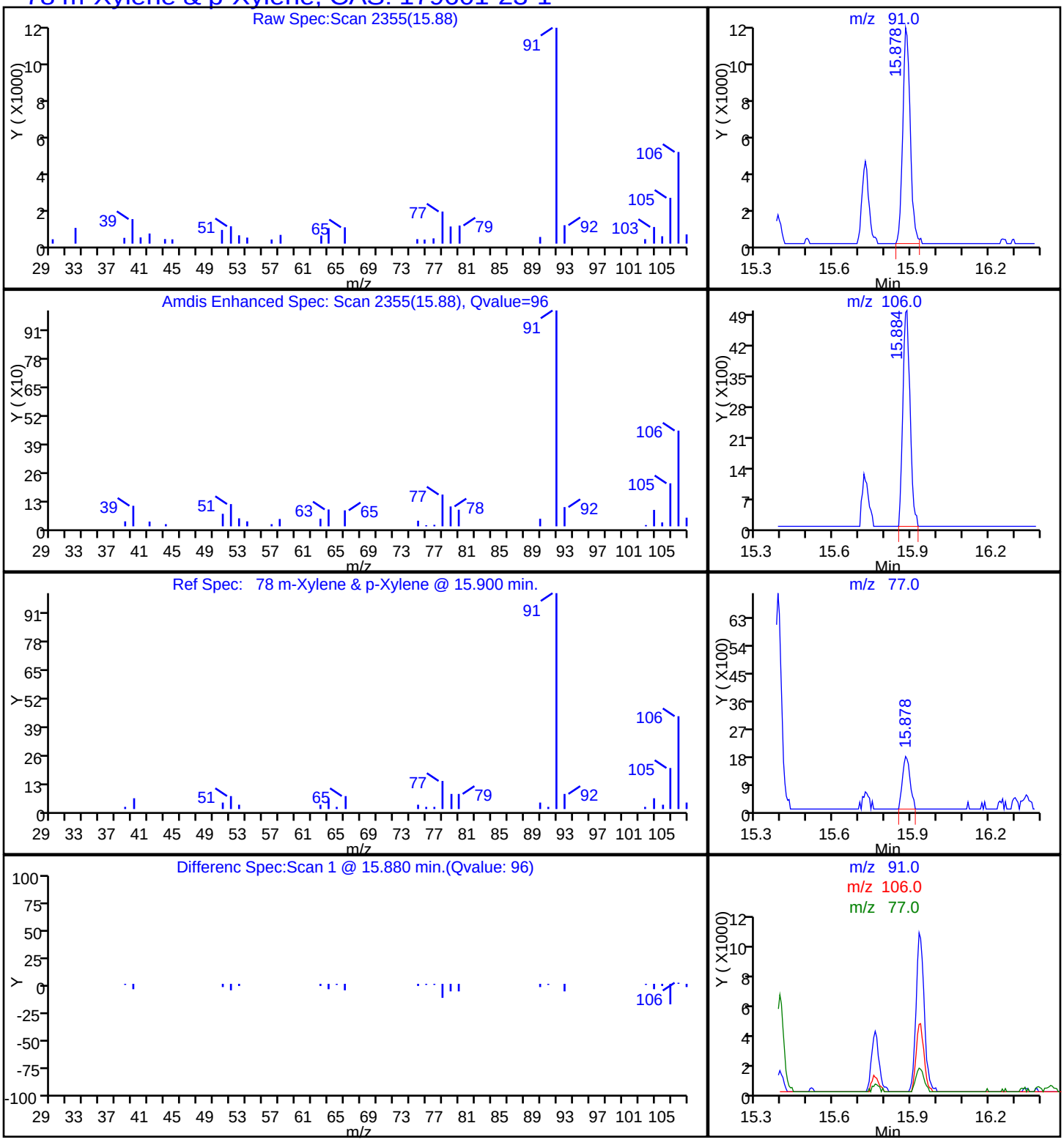


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D				
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME		
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1		
Client ID:	PCV-IA3-B21				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

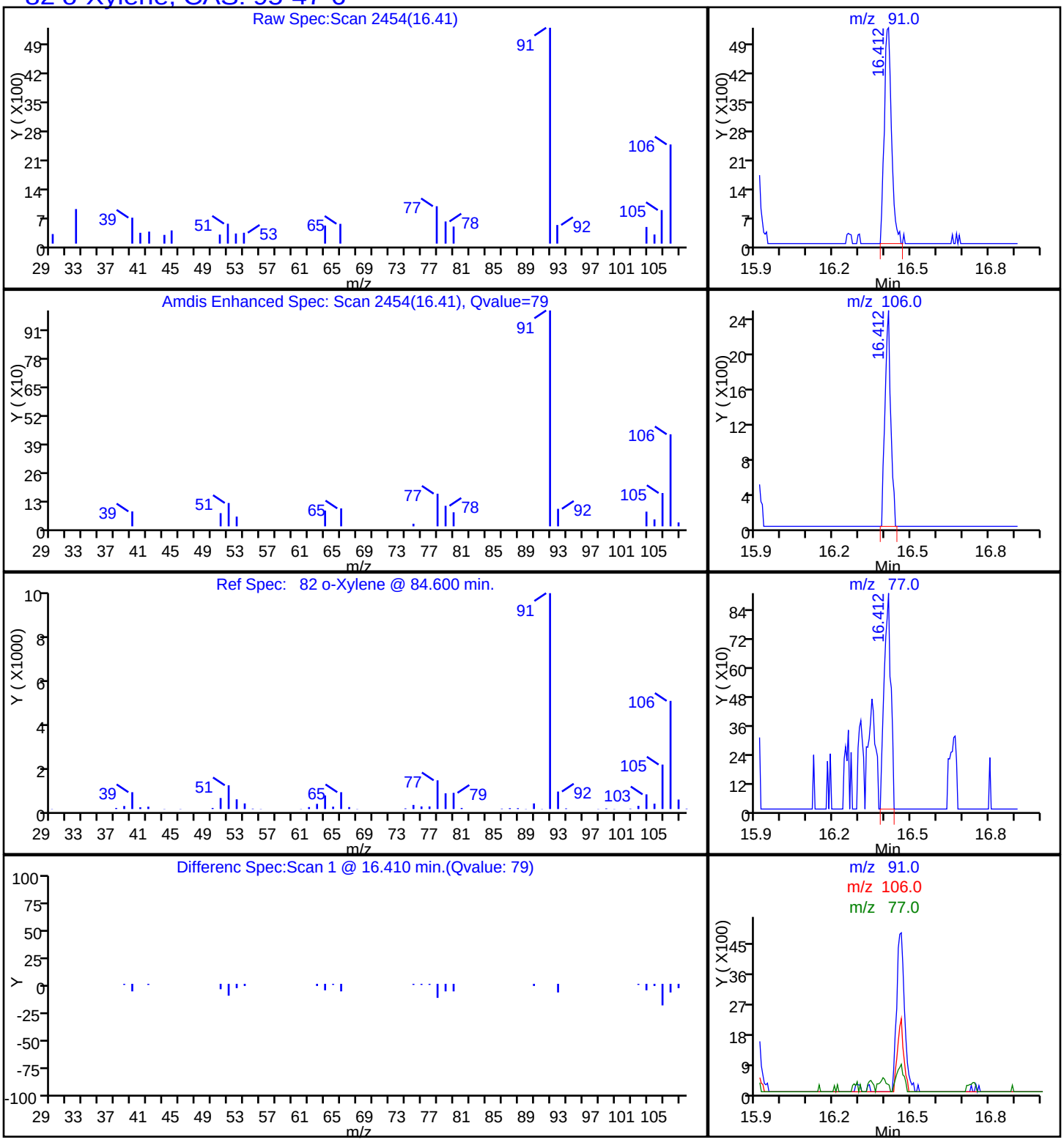


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6

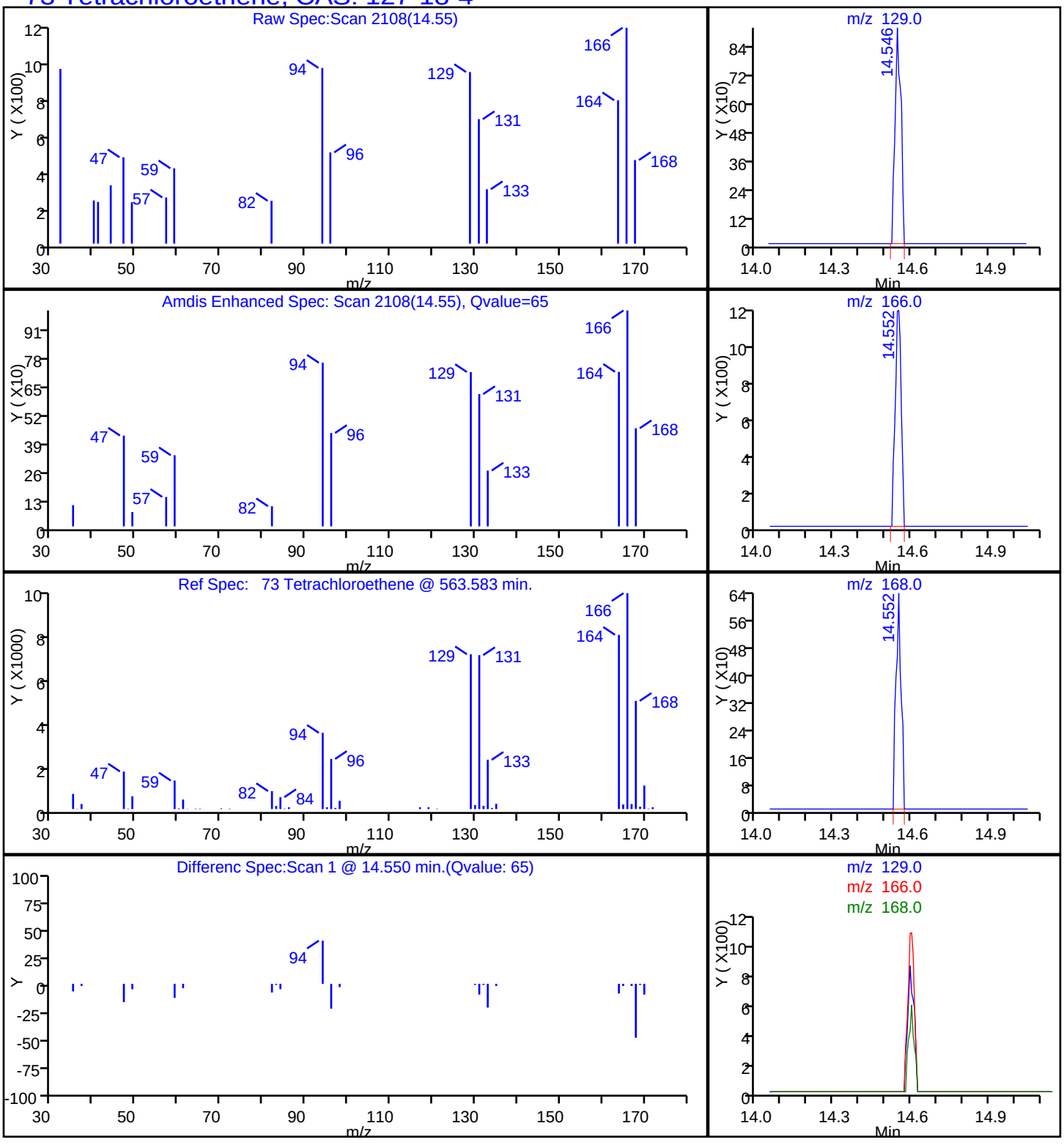


Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

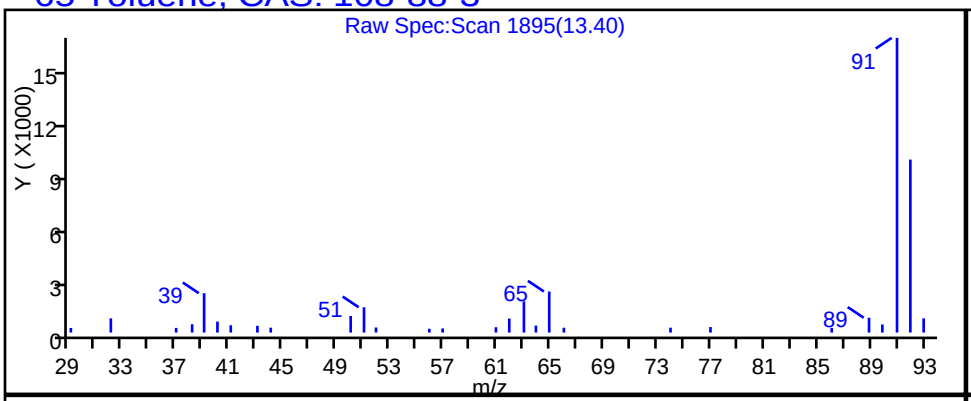


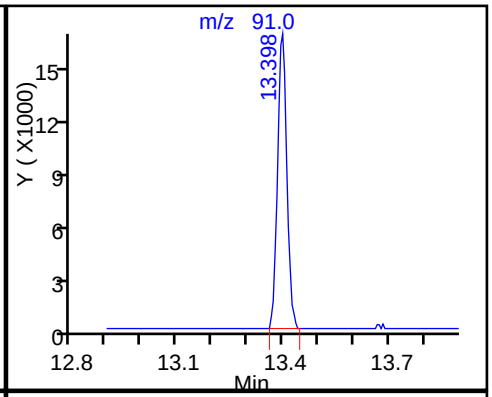
Report Date: 17-Mar-2014 16:37:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

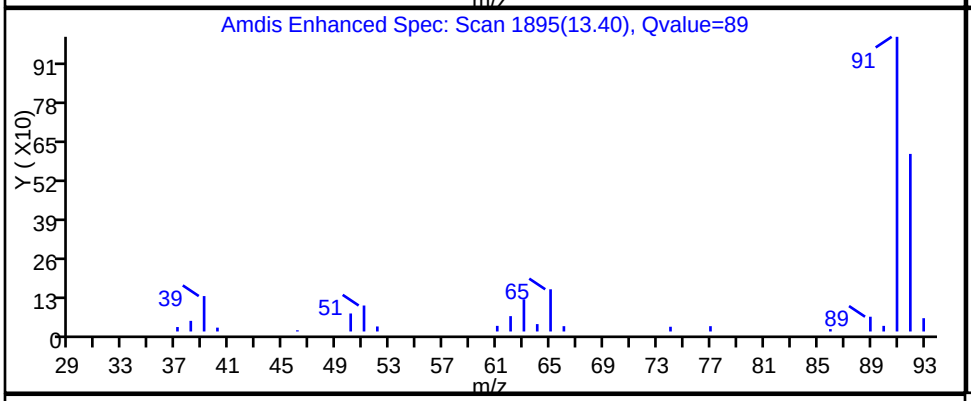
TestAmerica Knoxville

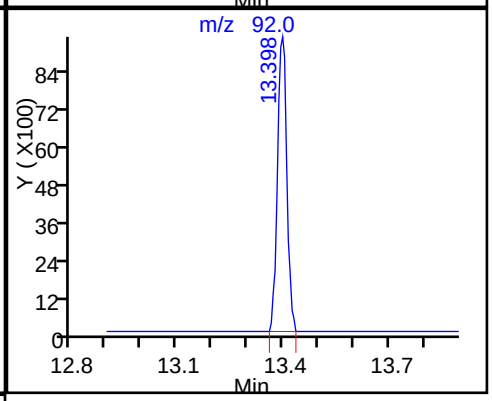
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

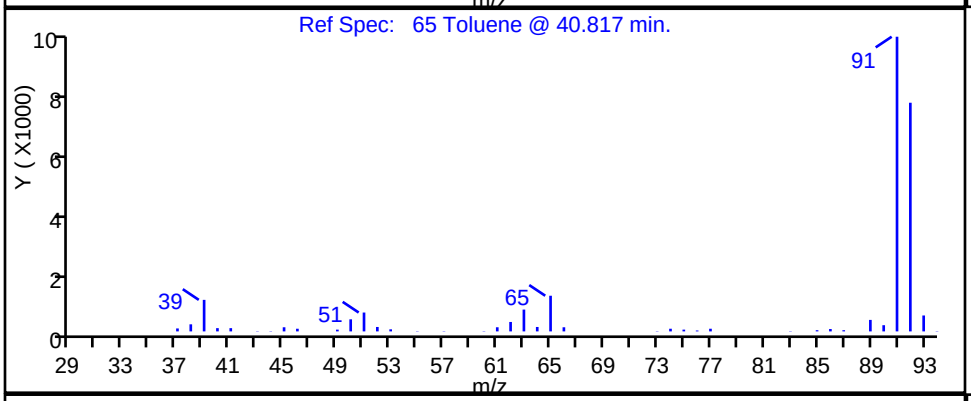
65 Toluene, CAS: 108-88-3

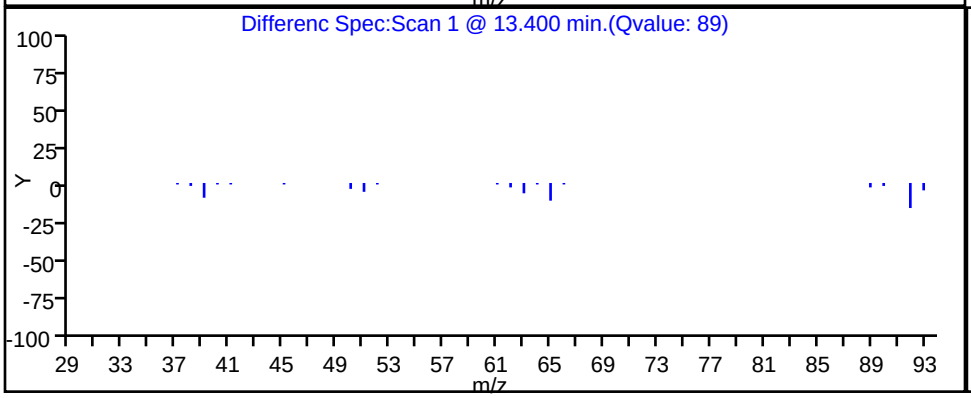


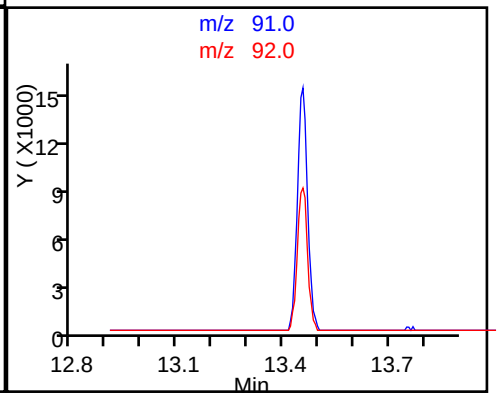










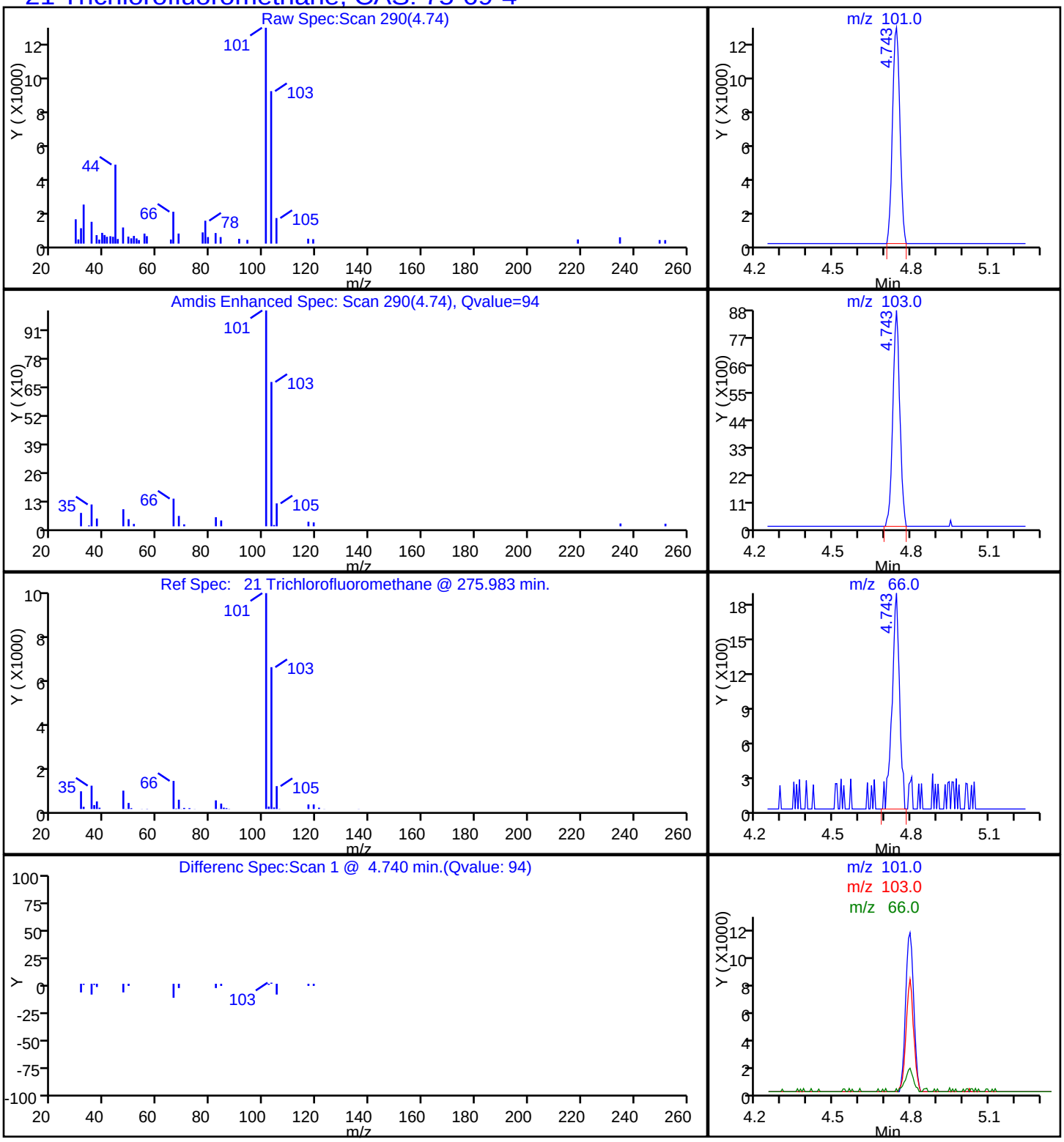


Report Date: 17-Mar-2014 16:37:35 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P202.D		
Injection Date:	15-Mar-2014 05:49:30	Instrument ID:	ME
Lims ID:	140-1054-A-1	Lab Sample ID:	140-1054-1
Client ID:	PCV-IA3-B21		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 06:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.043	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.26	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.7		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.4		0.50	0.045
67-64-1	Acetone	58.08	3.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.034	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	0.086	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 06:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.53		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.59		0.20	0.068
64-17-5	Ethanol	46.07	21		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.049	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.62		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.23		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.088	J	0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.25		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 06:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 06:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.75	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	5.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	9.8		2.0	0.18
67-64-1	Acetone	58.08	8.6	J	12	3.3
71-43-2	Benzene	78.11	0.65		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.13	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	0.27	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 06:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.9		0.99	0.34
64-17-5	Ethanol	46.07	39		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.59	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.2		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.99		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.38	J	0.87	0.26
115-07-1	Propene	42.08	2.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.95		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B19 Lab Sample ID: 140-1054-2

Matrix: Air Lab File ID: EC14P203.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:28

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Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D
Lims ID: 140-1054-A-2 Lab Sample ID: 140-1054-2
Client ID: PCV-IA2-B19
Sample Type: Client
Inject. Date: 15-Mar-2014 06:34:30 ALS Bottle#: 3 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-2
Misc. Info.: E031414,TO155,,140-0000522-025
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:38:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: liul Date: 25-Mar-2014 14:38:29

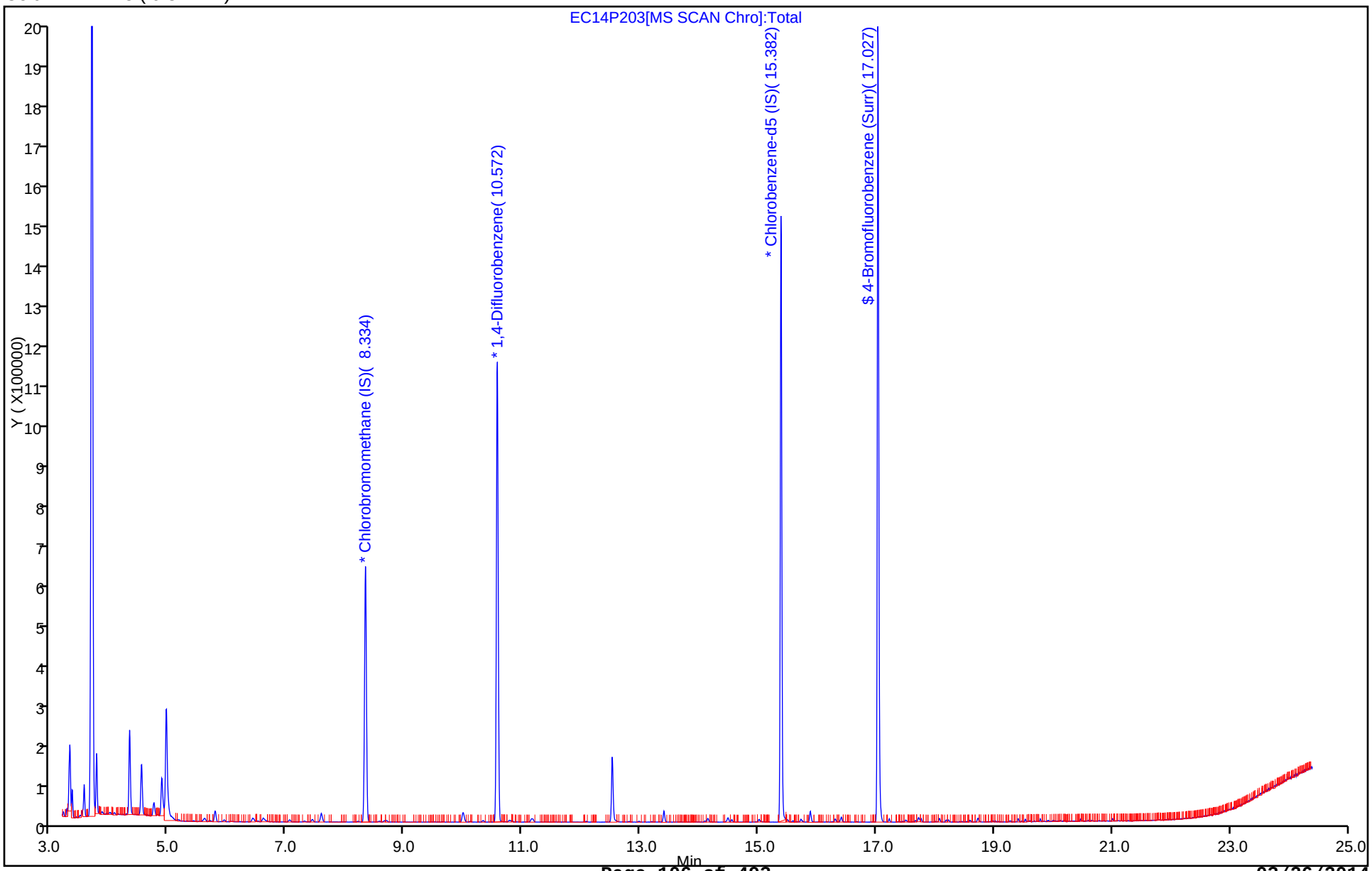
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	176627	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	851327	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	721909	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	648181	4.10	
7 Propene	41	3.319	3.314	0.005	79	23464	0.5281	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	46333	0.2371	
9 Chloromethane	52	3.530	3.530	0.0	92	3286	0.2107	
15 Bromomethane	94	4.074	4.080	-0.006	8	875	0.0135	
17 Ethanol	31	4.333	4.317	0.016	98	145590	8.24	
19 2-Methylbutane	43	4.533	4.538	-0.005	88	42233	0.6828	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	91	25353	0.1294	
23 Acetone	58	4.883	4.883	0.0	93	38766	1.45	
24 Isopropyl alcohol	45	4.986	4.975	0.011	91	38418	0.5578	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	61	3659	0.0302	
31 Methylene Chloride	84	5.789	5.795	-0.006	77	12583	0.2493	
33 Carbon disulfide	76	5.940	5.940	0.0	82	6261	0.0342	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	89	2954	0.1022	
40 Hexane	56	7.585	7.590	-0.005	62	3149	0.0670	
48 Benzene	78	9.990	9.995	-0.005	91	13925	0.0813	
50 Carbon tetrachloride	117	10.017	10.017	0.0	86	4506	0.0274	
53 Isooctane	57	10.777	10.788	-0.011	70	4572	0.0173	
54 n-Heptane	71	11.176	11.182	-0.006	64	1263	0.0195	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	96968	0.9611	
65 Toluene	91	13.398	13.403	-0.005	88	19424	0.1004	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	95	17746	0.0910	
82 o-Xylene	91	16.412	16.412	0.0	70	7392	0.0351	

Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

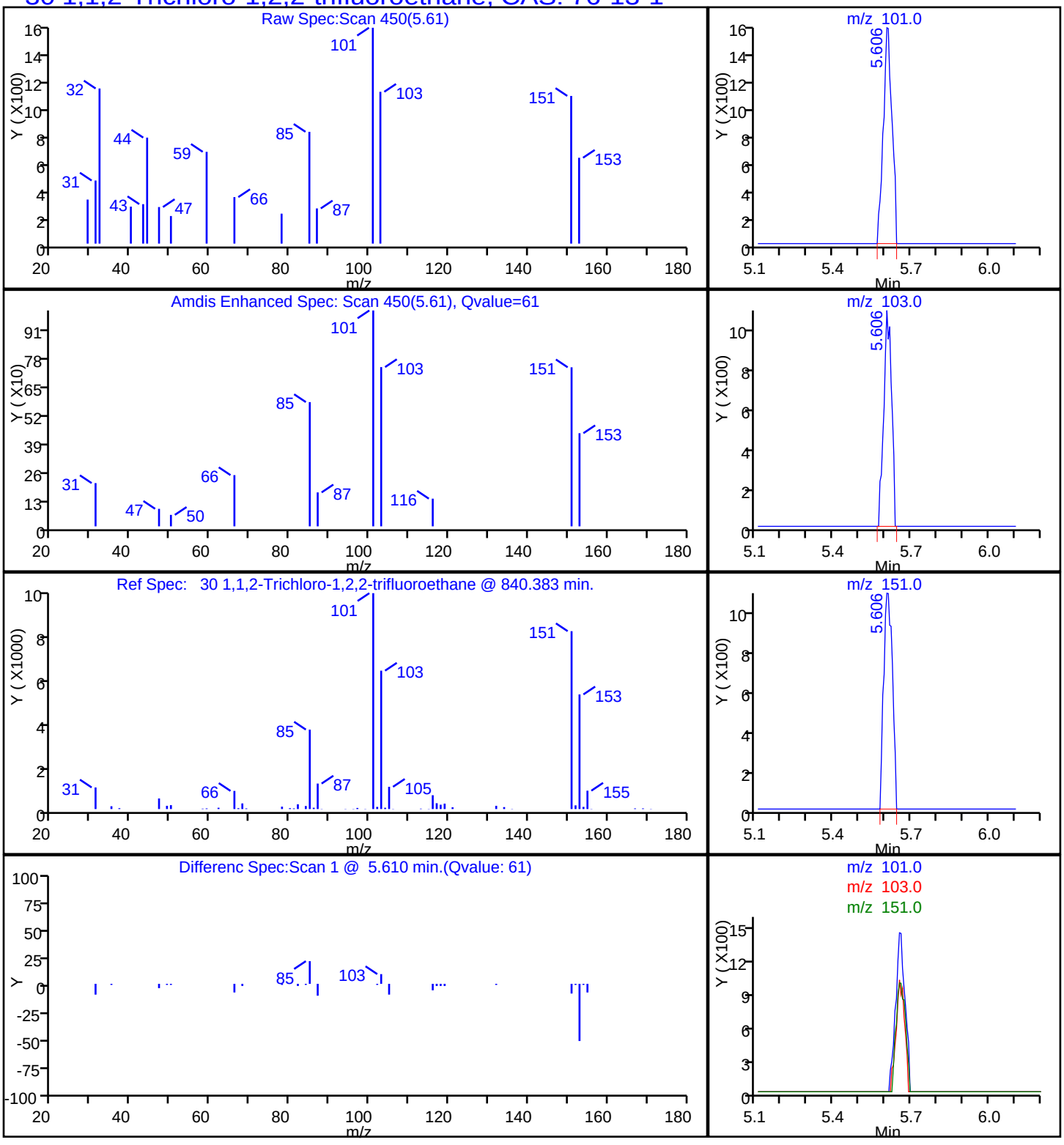
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2	Worklist Smp#:	25
Client ID:	PCV-IA2-B19				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D
Injection Date: 15-Mar-2014 06:34:30 Instrument ID: ME
Lims ID: 140-1054-A-2 Lab Sample ID: 140-1054-2
Client ID: PCV-IA2-B19
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

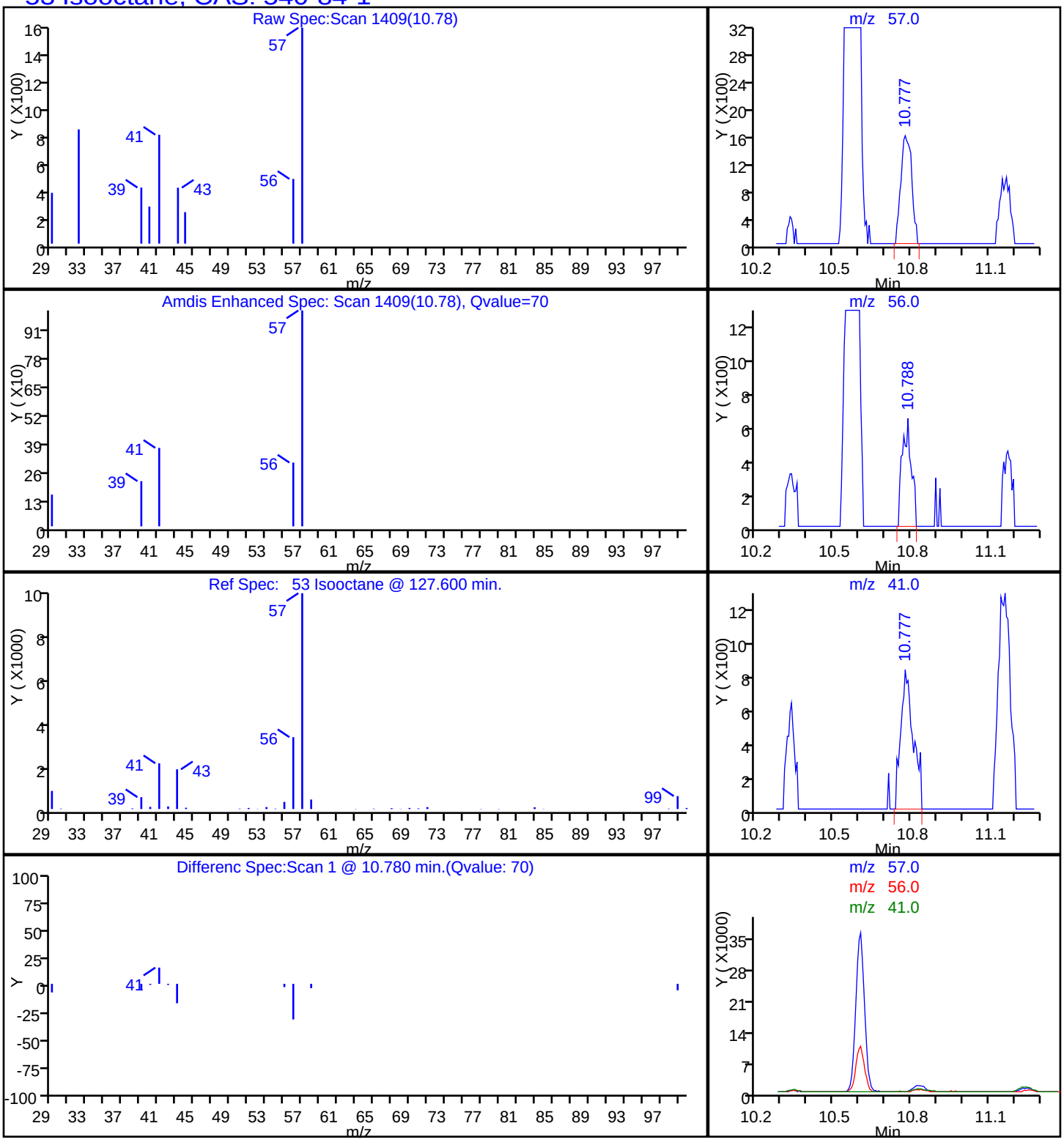


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1

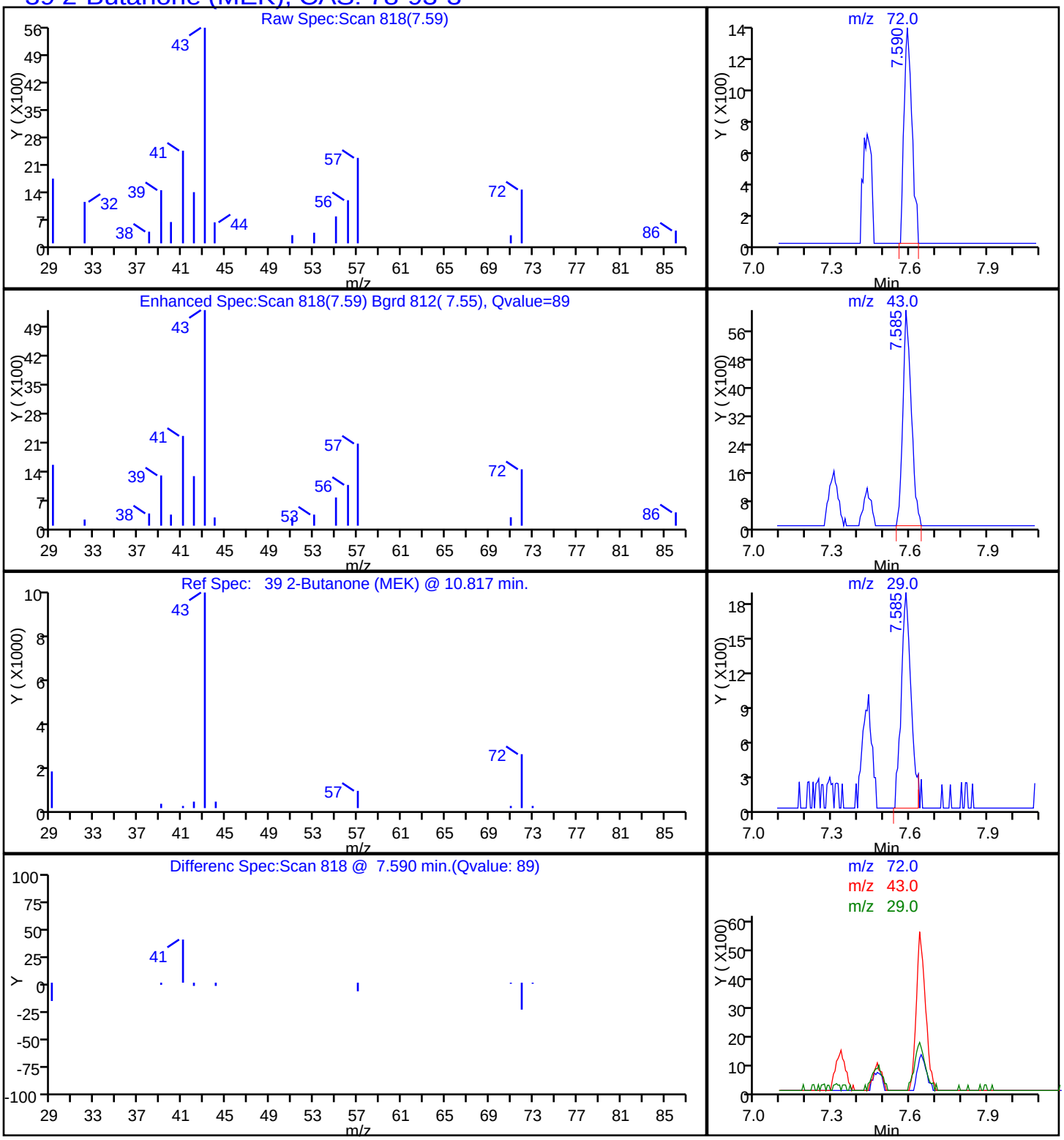


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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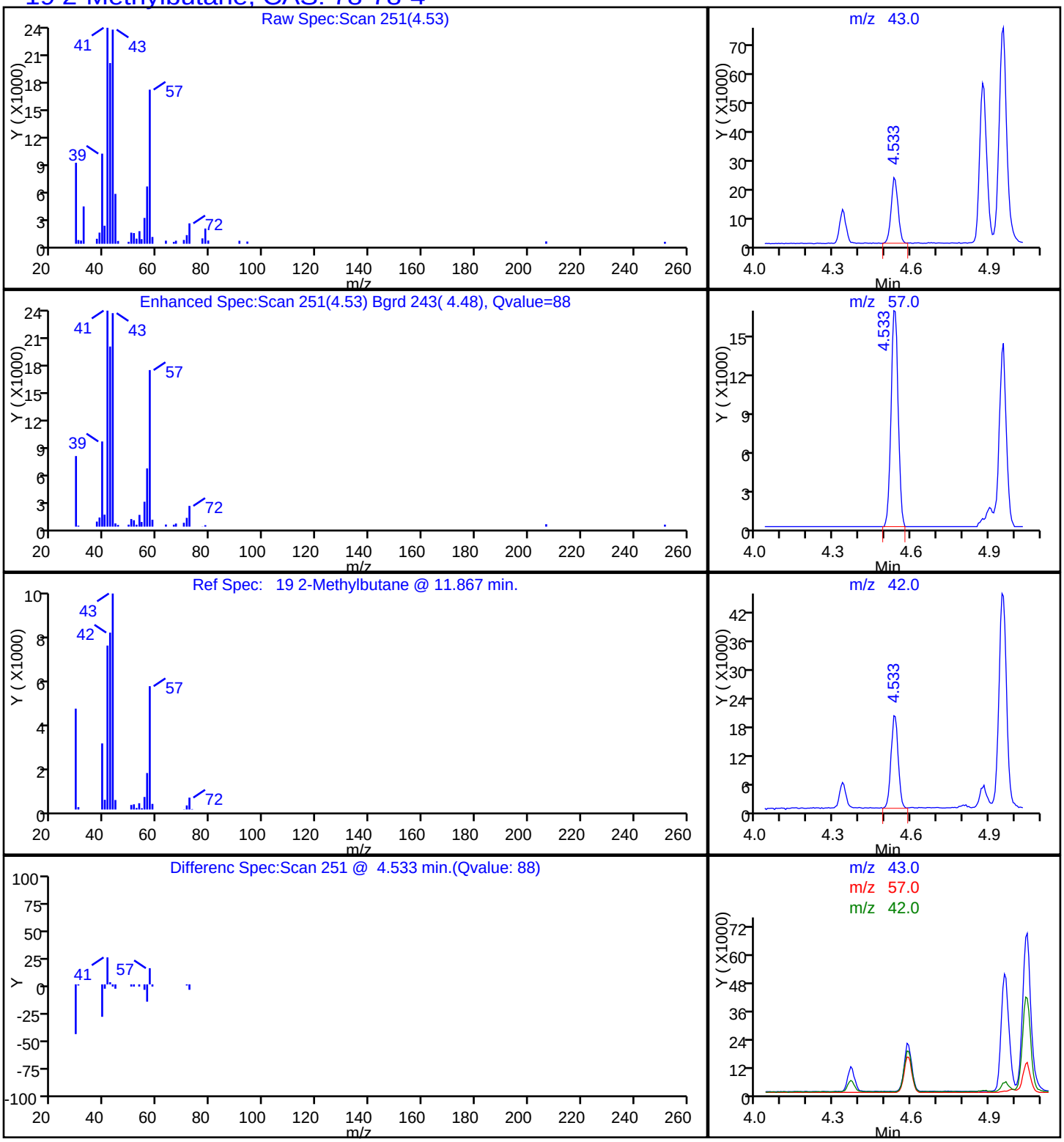
Injection Date: 15-Mar-2014 06:34:30 Instrument ID: ME
Lims ID: 140-1054-A-2 Lab Sample ID: 140-1054-2
Client ID: PCV-IA2-B19
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4

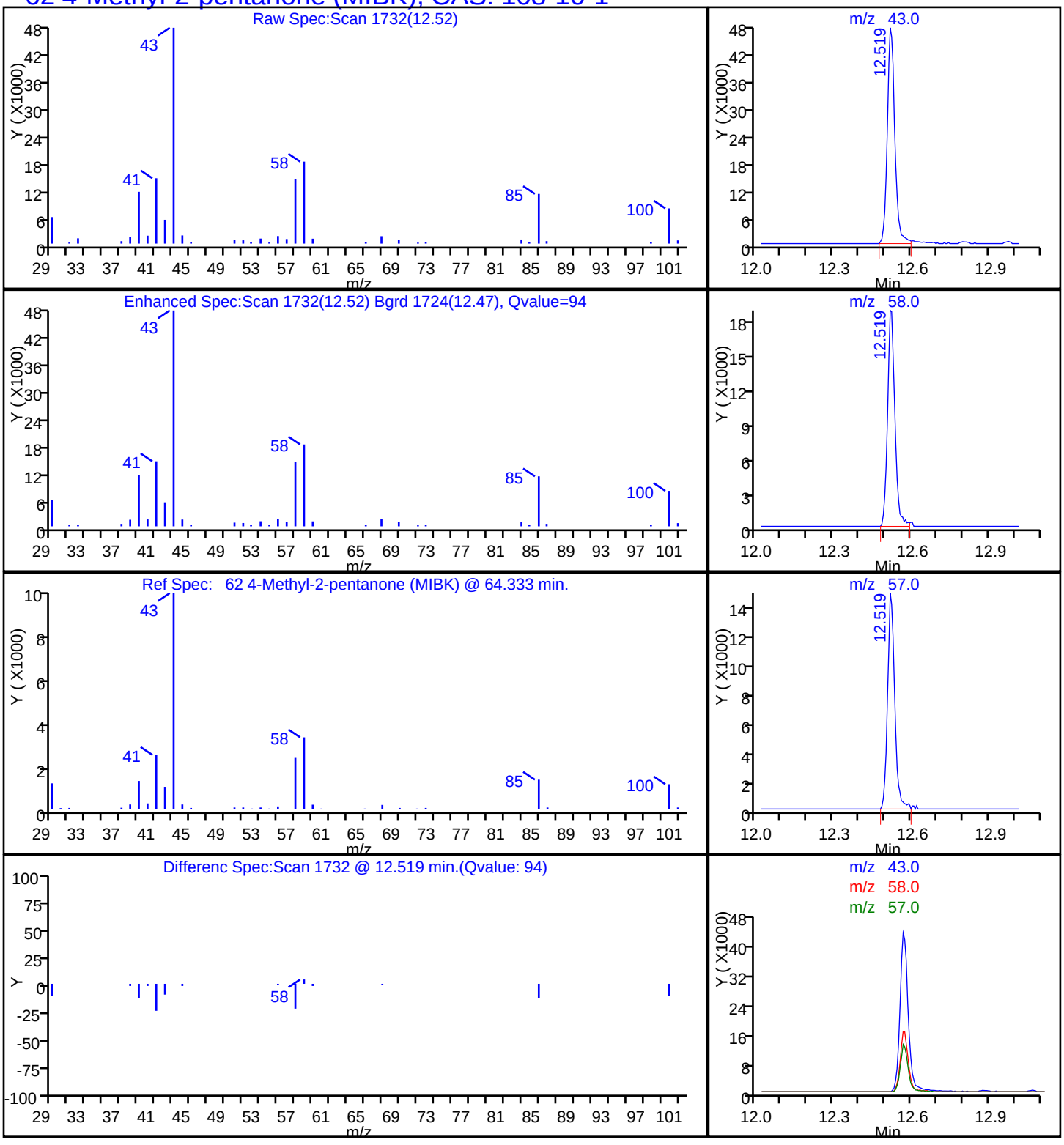


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

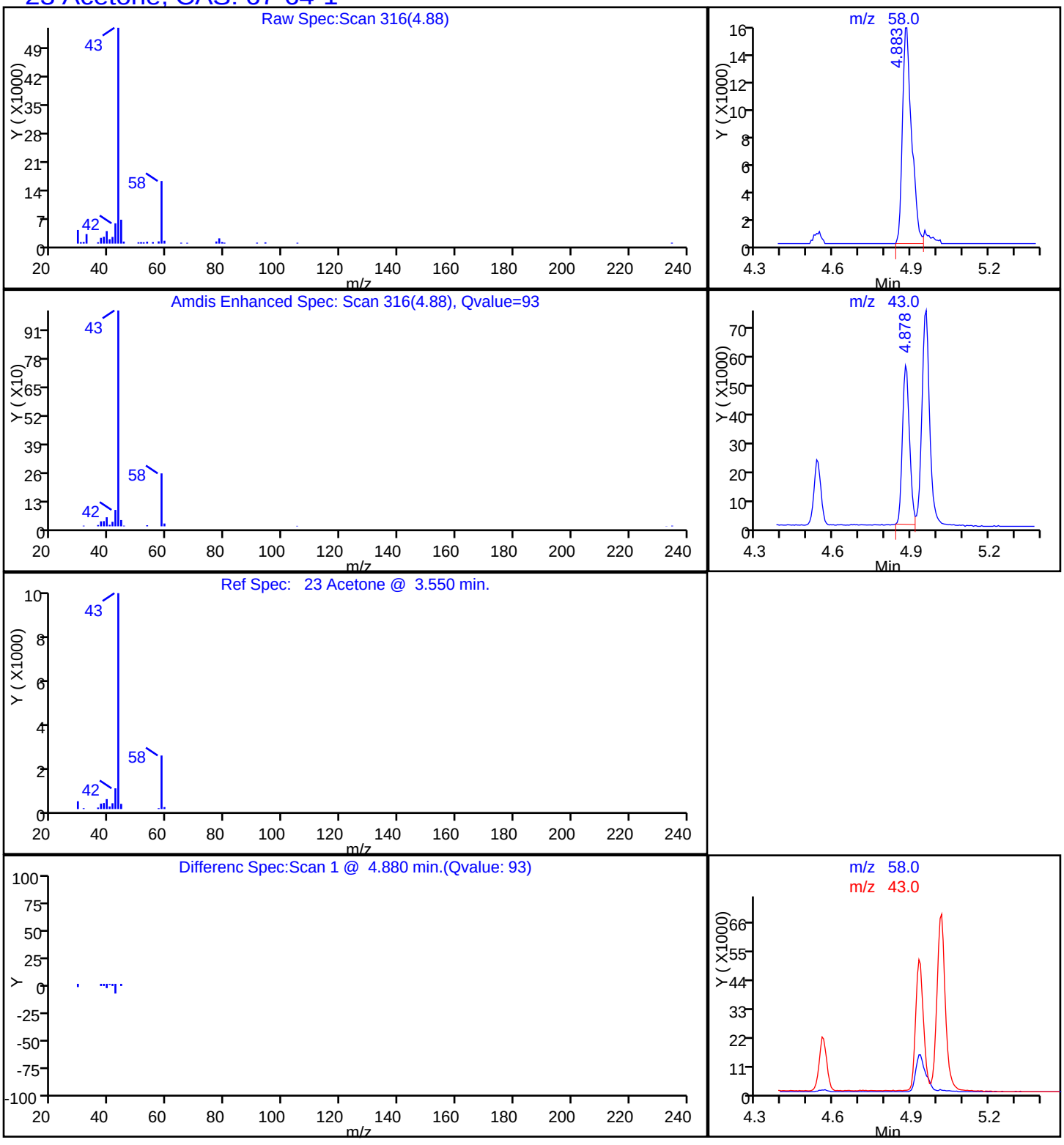


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

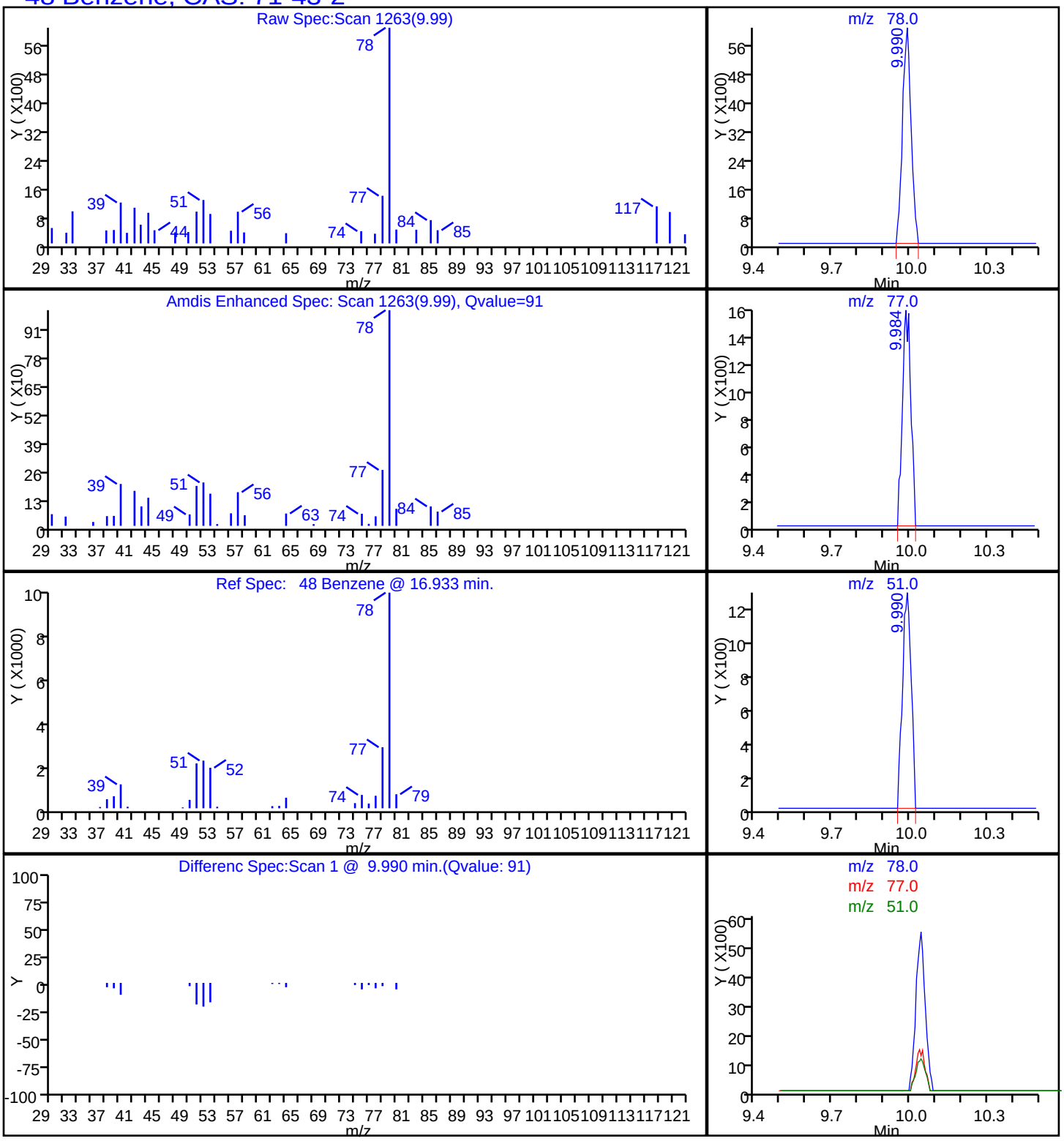


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2

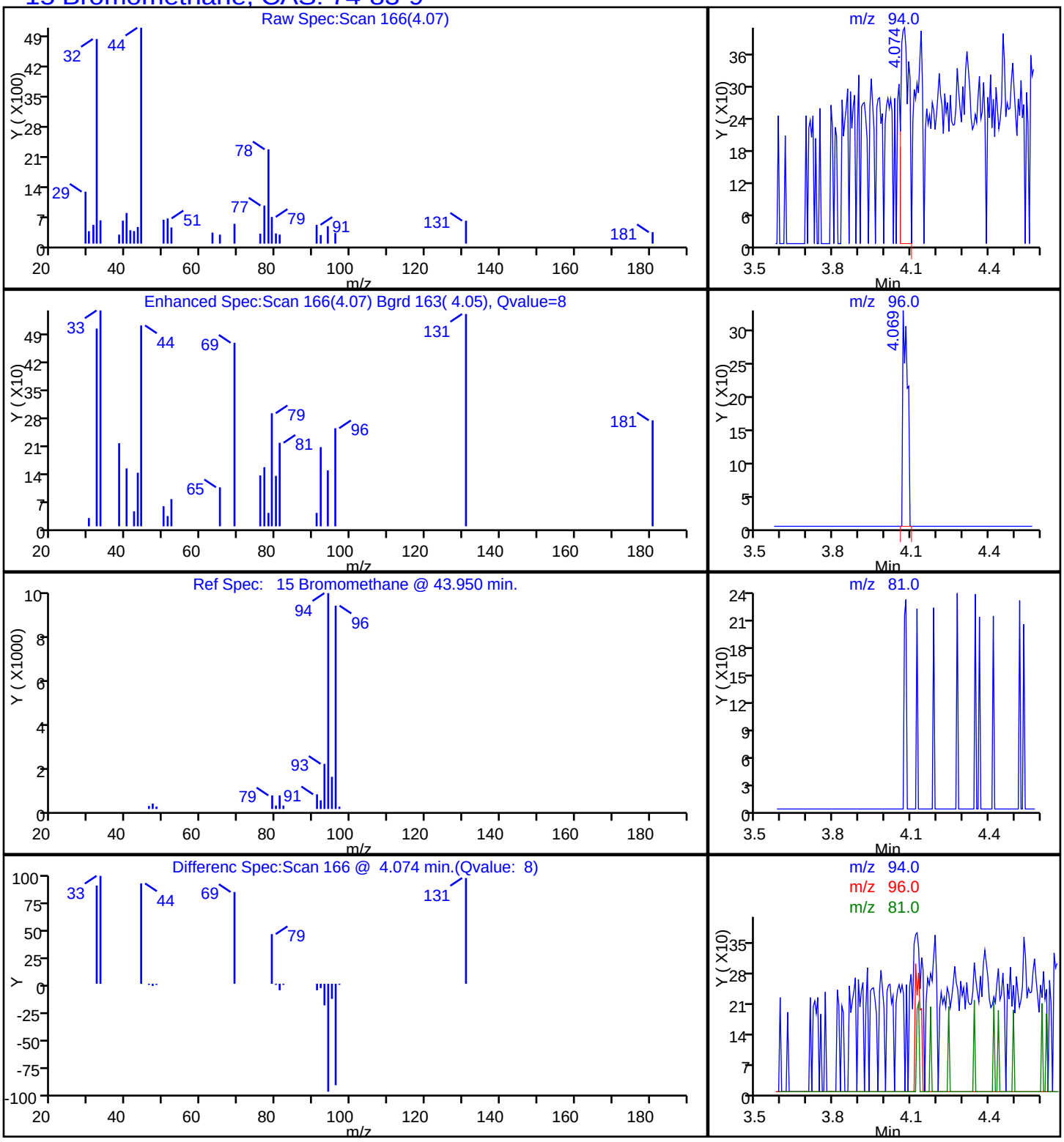


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9

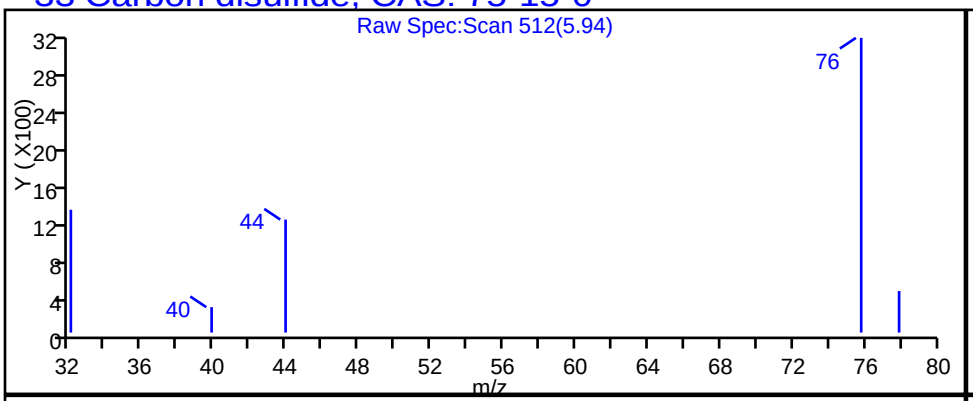


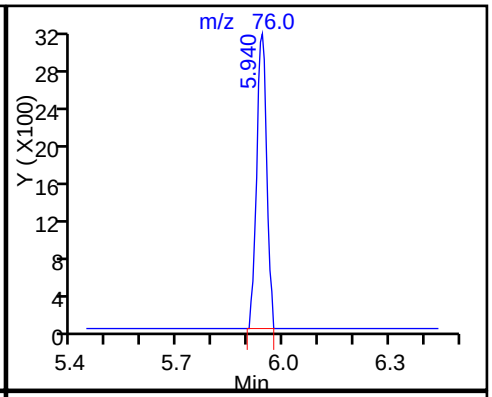
Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

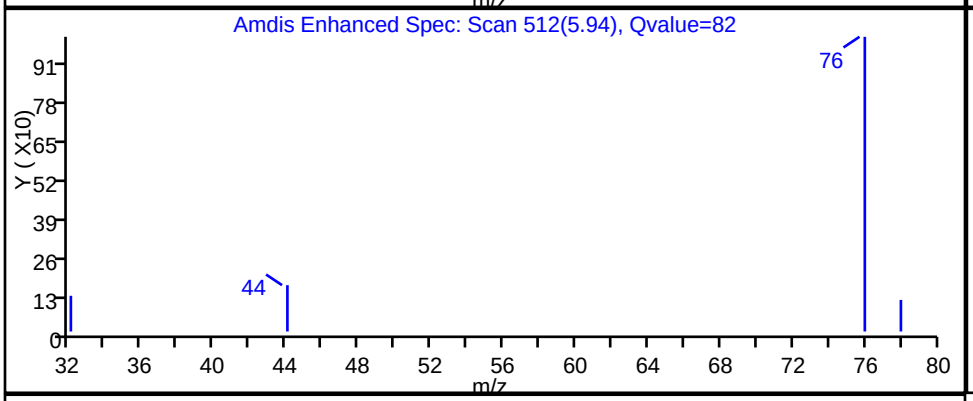
TestAmerica Knoxville

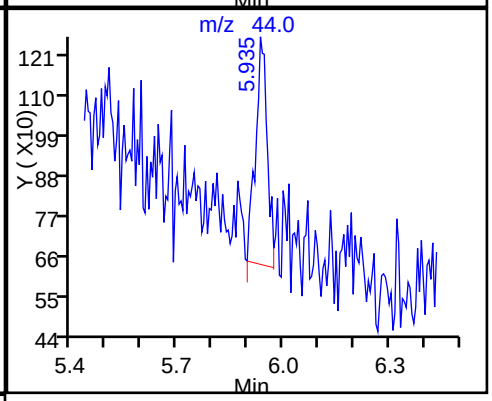
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

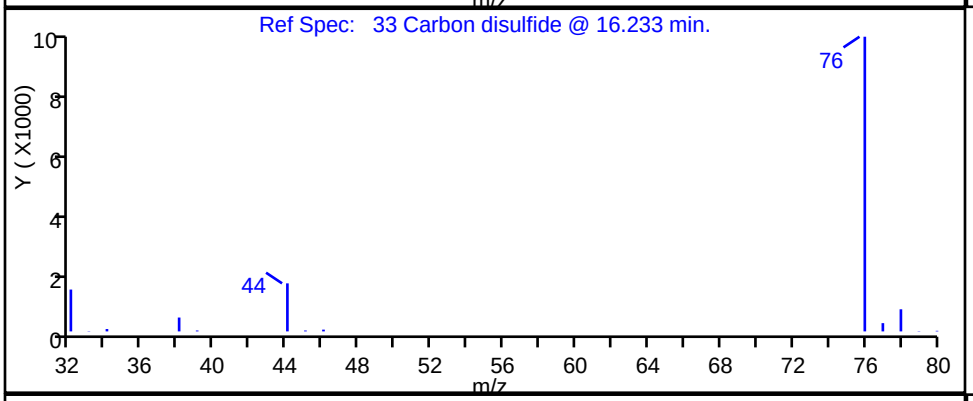
33 Carbon disulfide, CAS: 75-15-0

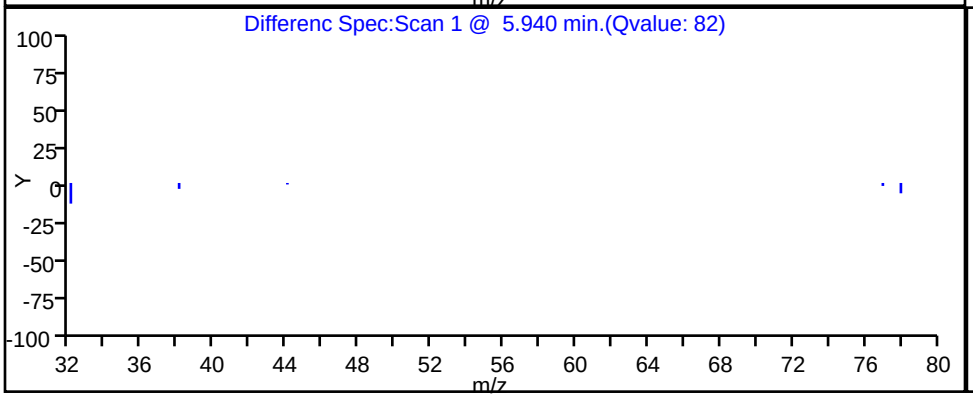


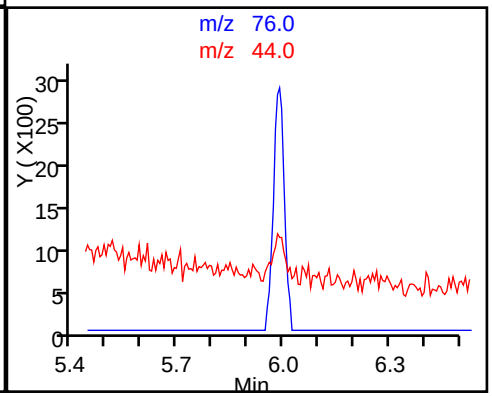












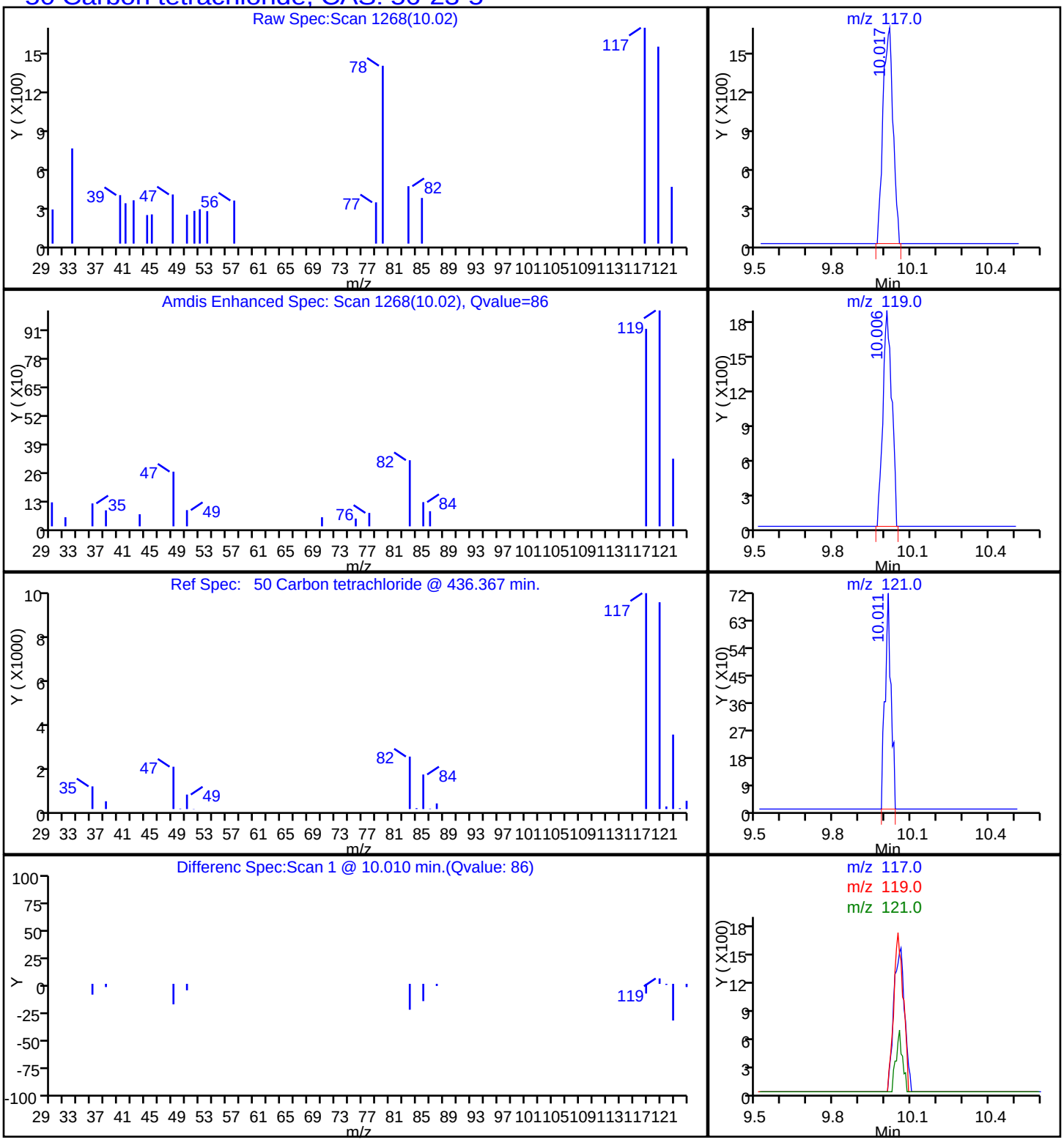
Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D

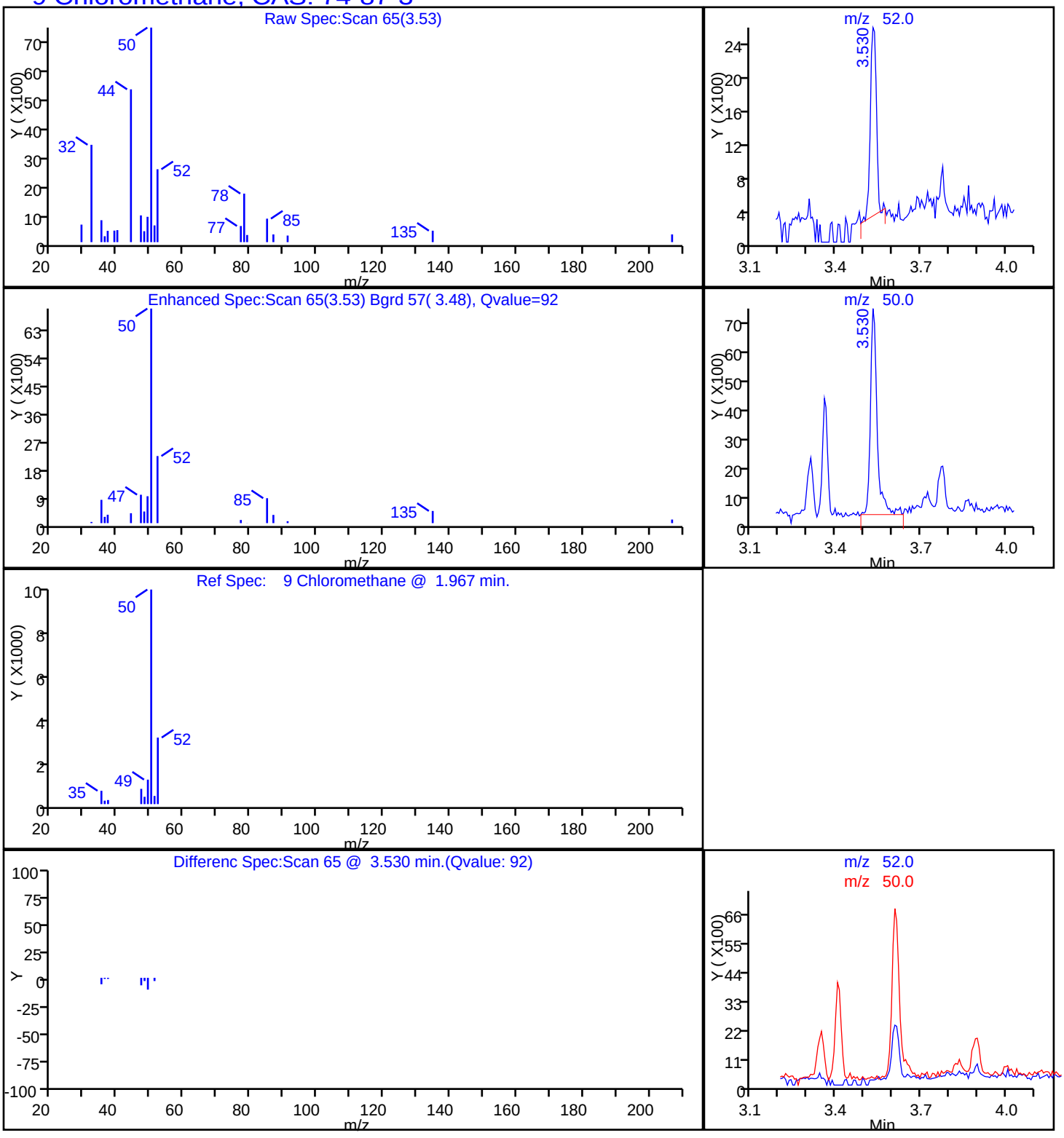
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D
Injection Date: 15-Mar-2014 06:34:30 Instrument ID: ME
Lims ID: 140-1054-A-2 Lab Sample ID: 140-1054-2
Client ID: PCV-IA2-B19
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 25
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

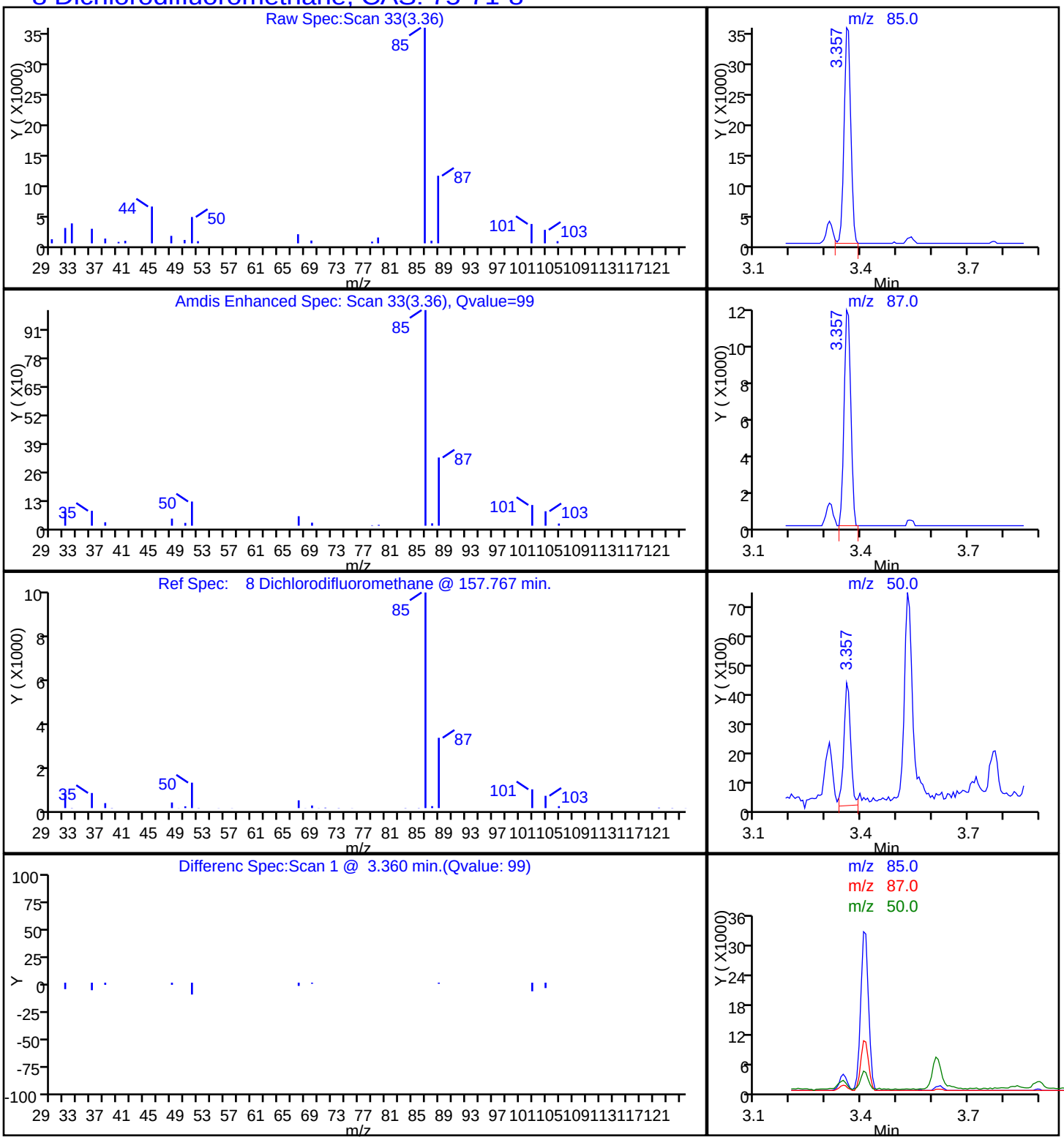
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

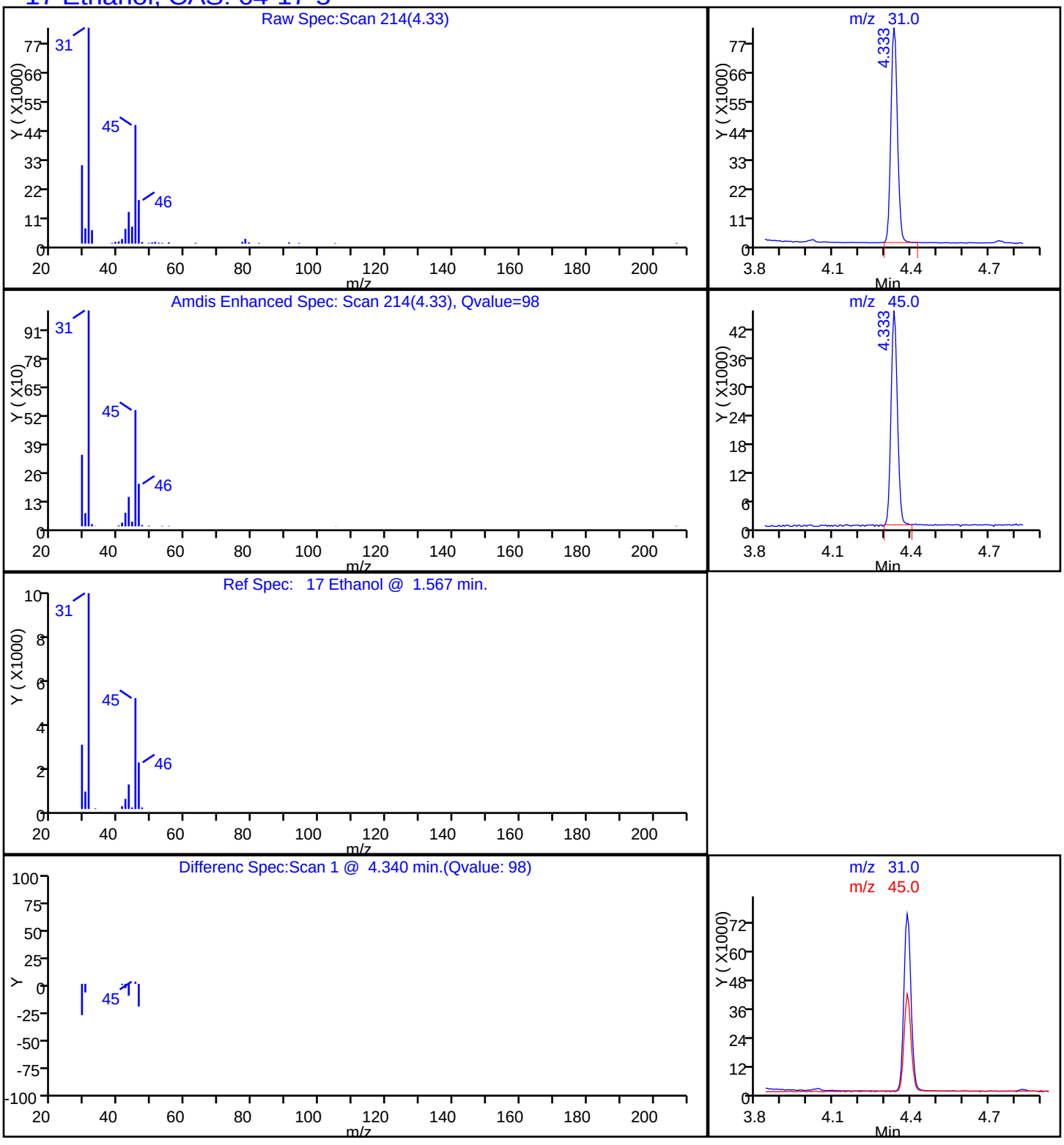


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

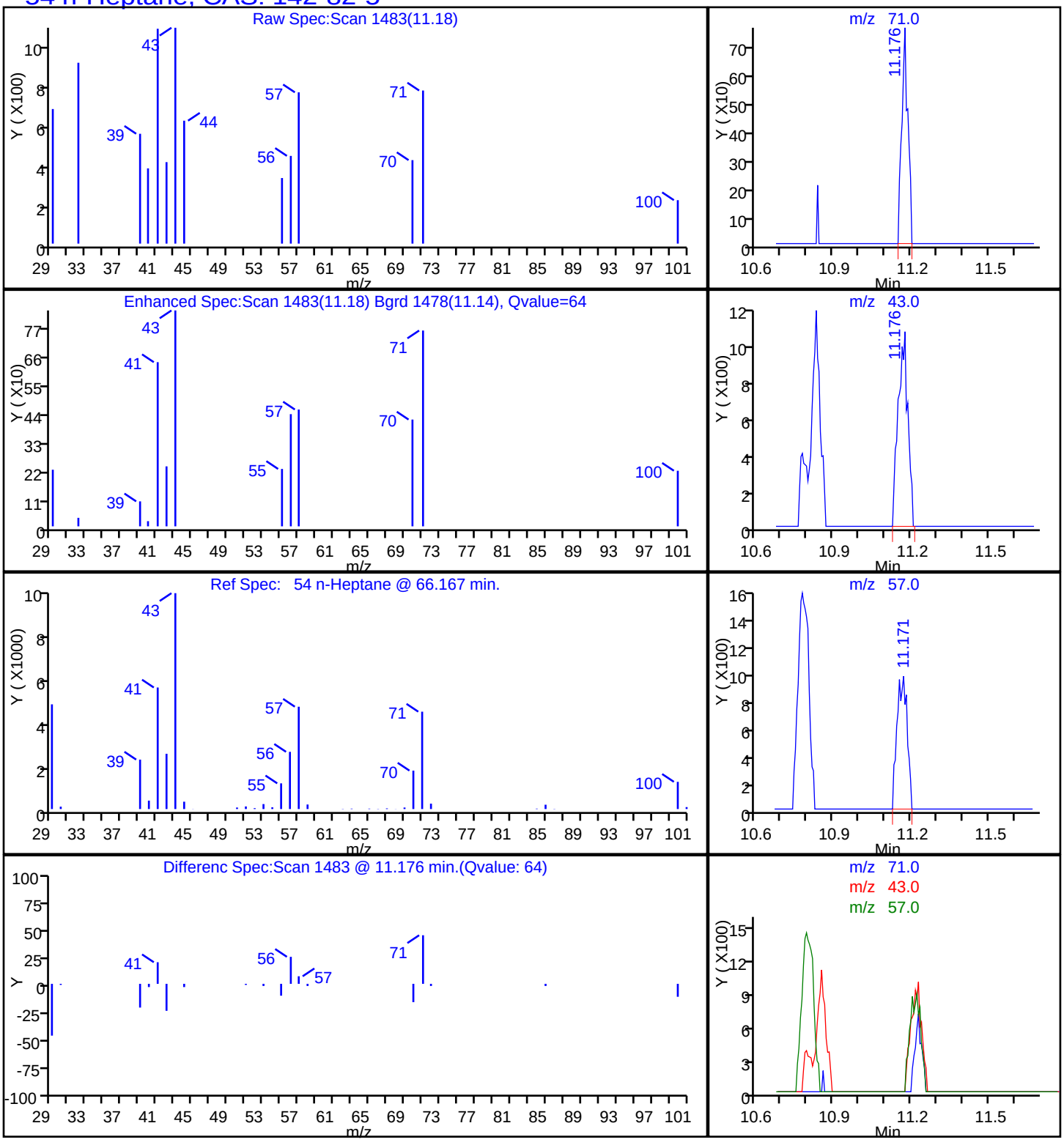


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

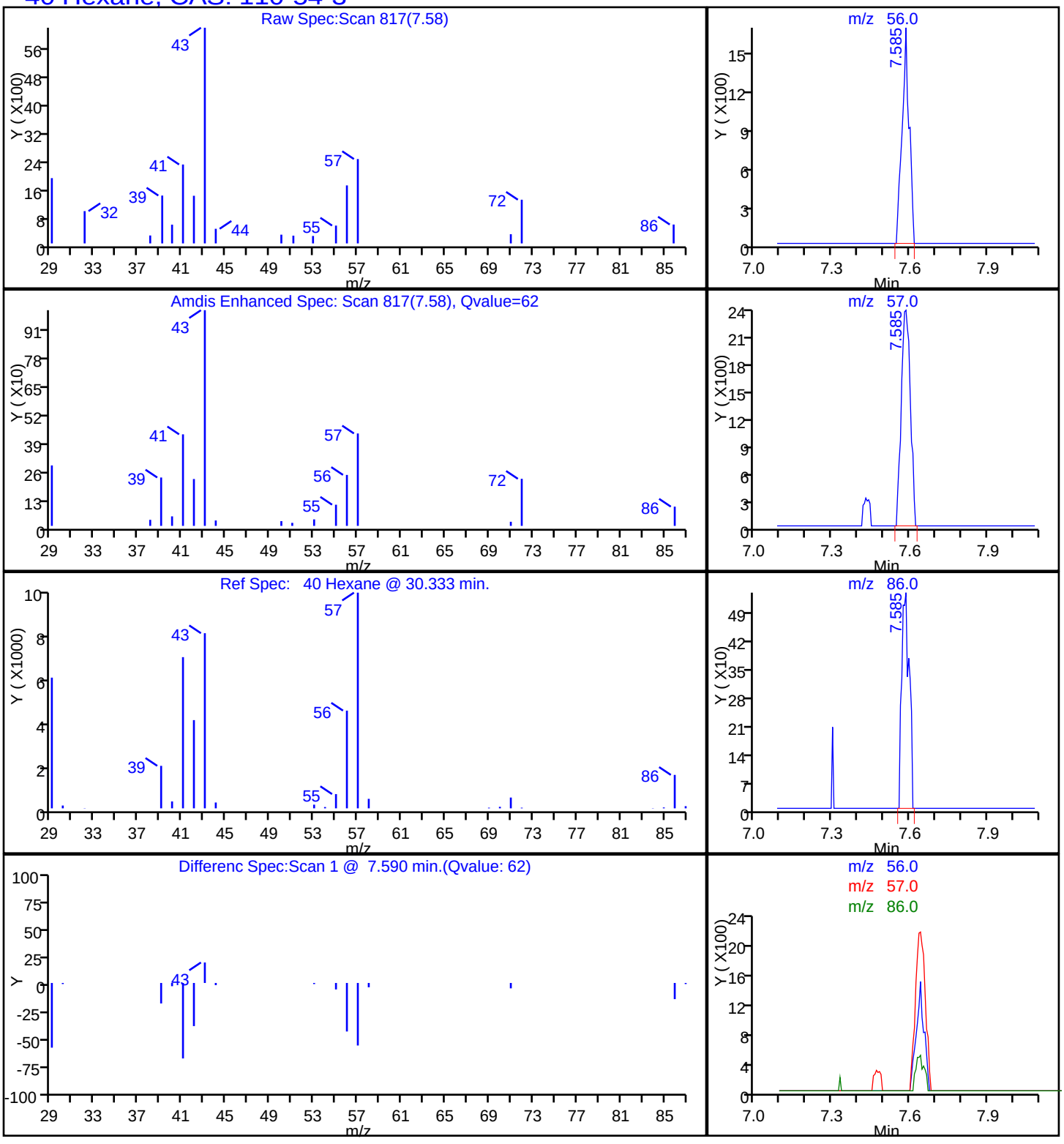


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

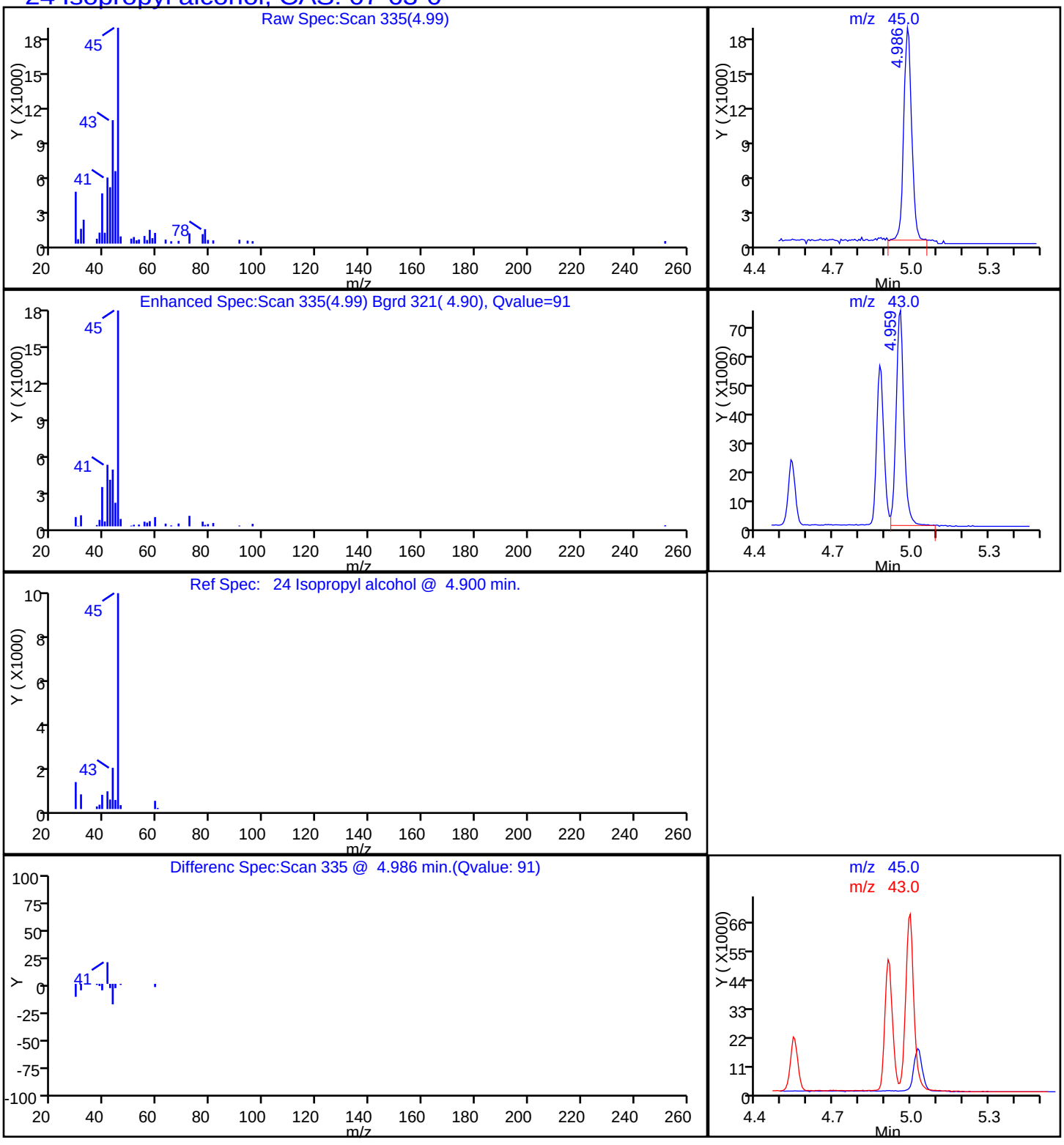


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



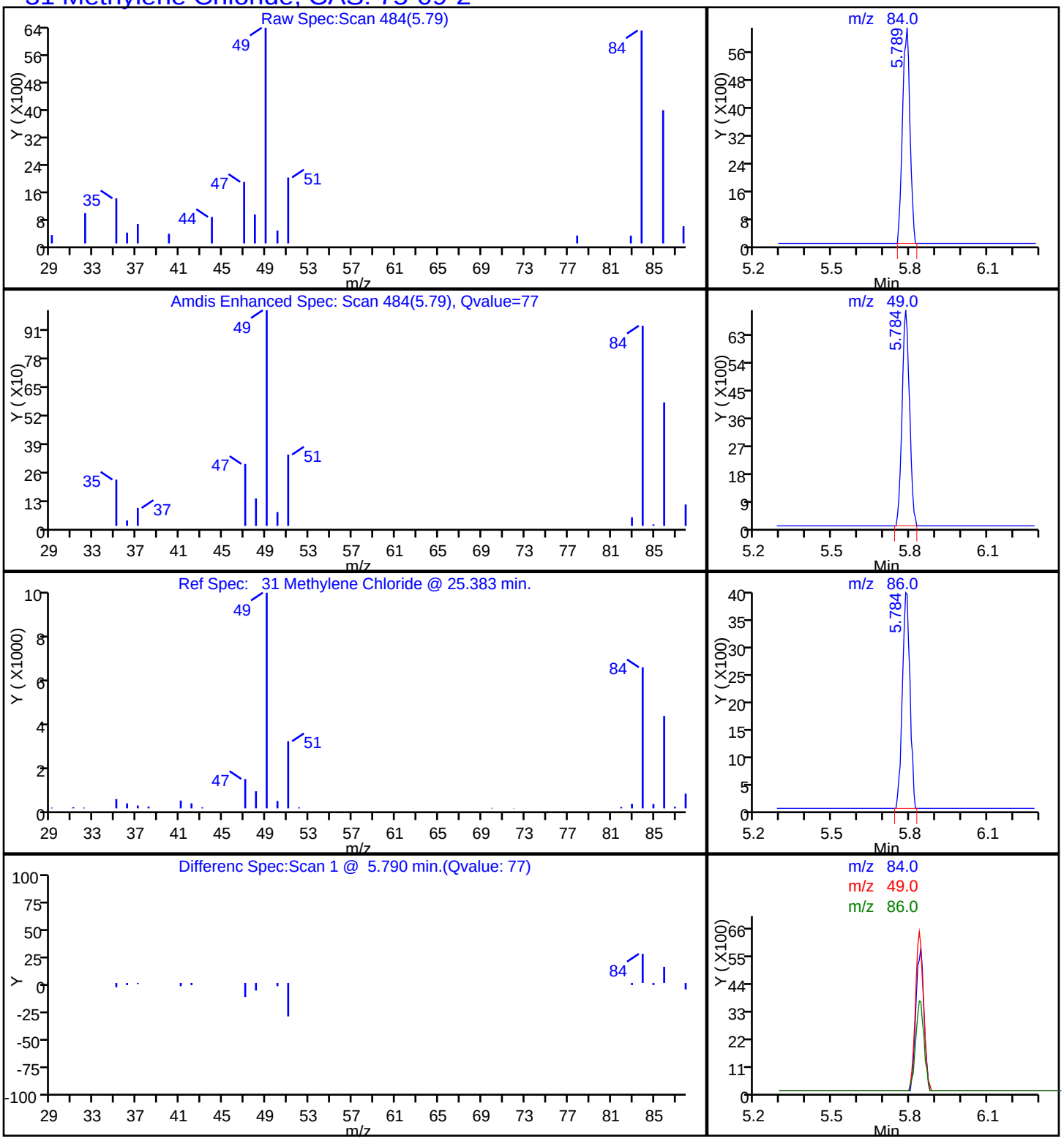
Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D

Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

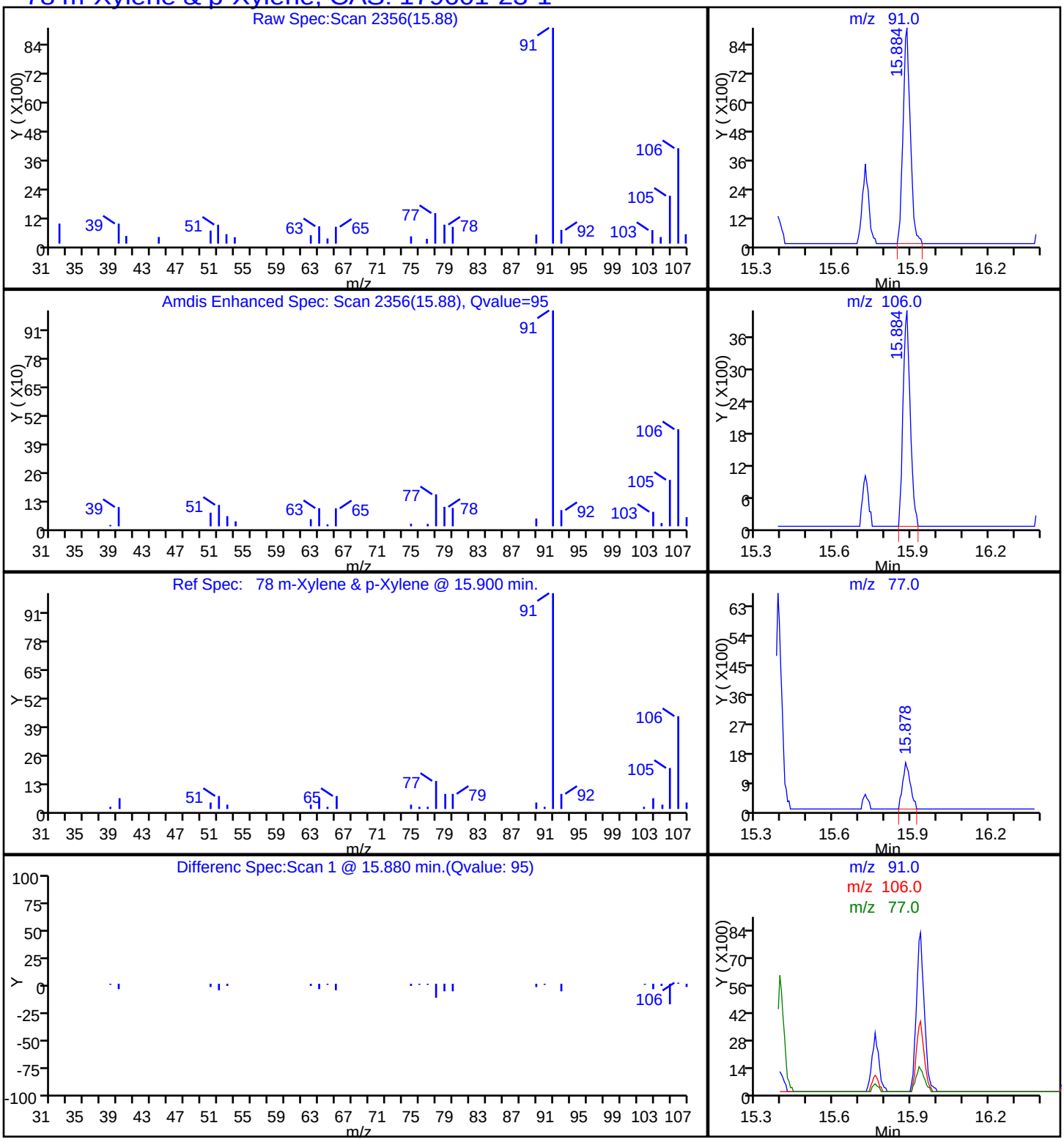


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

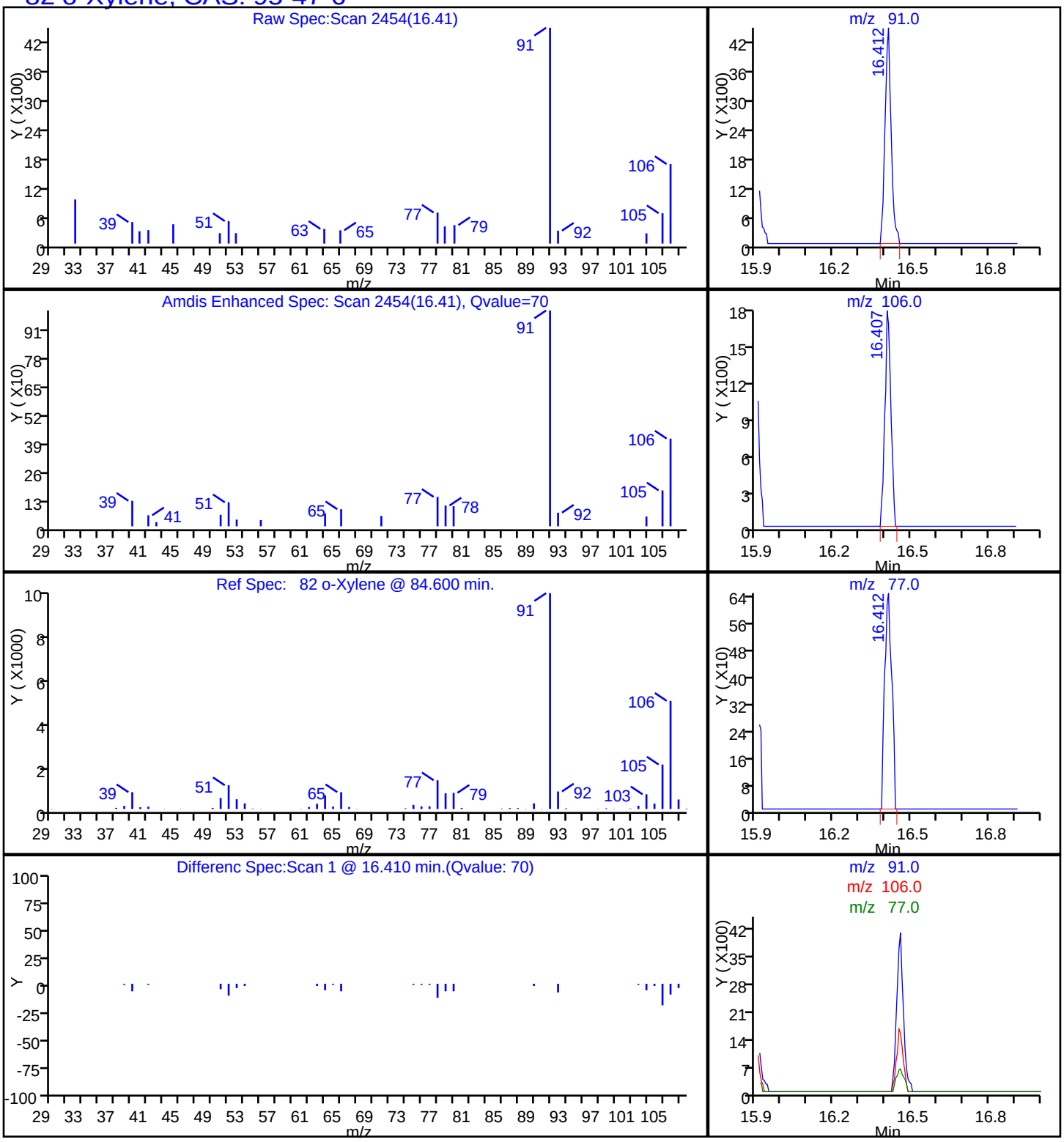


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



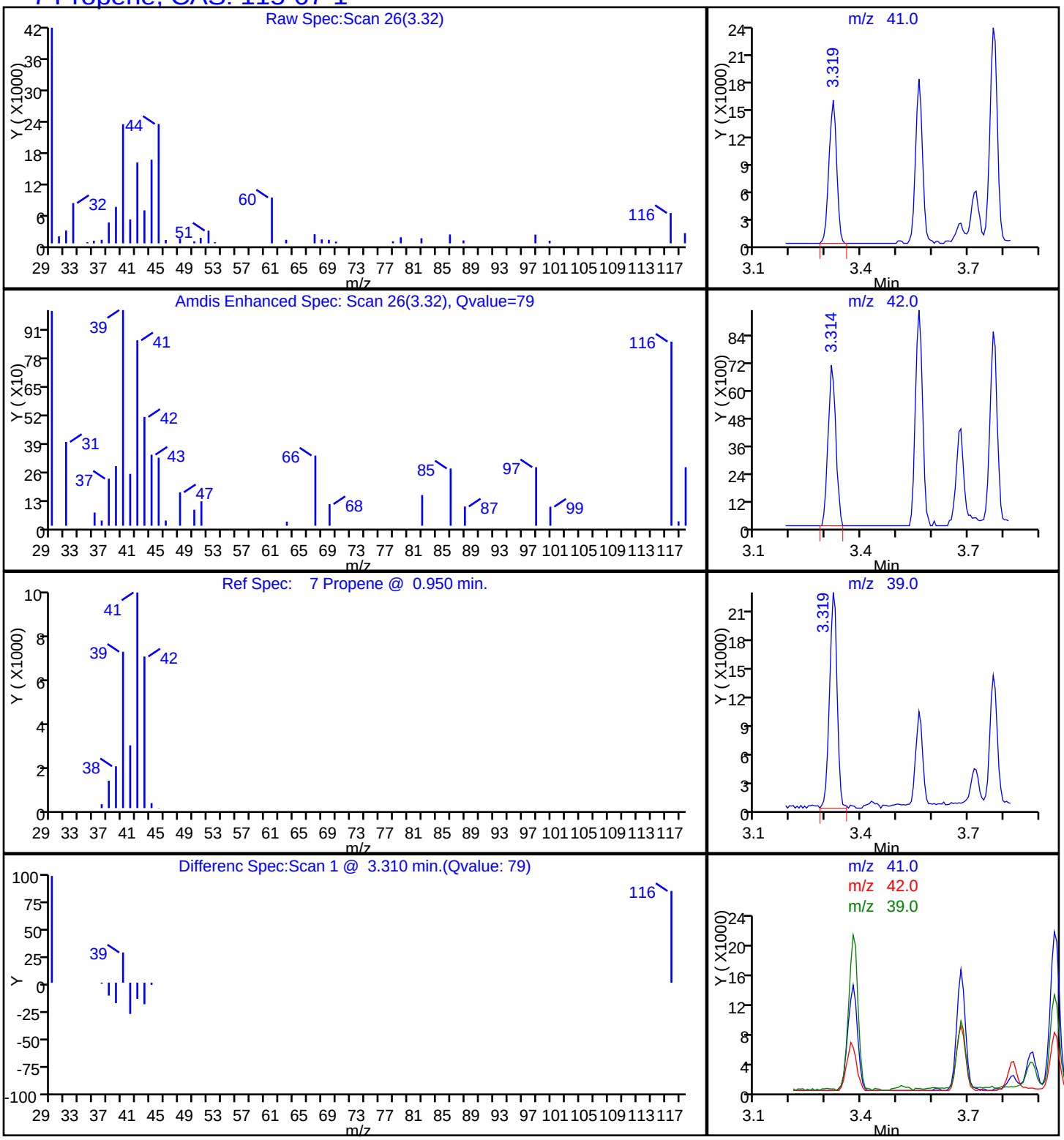
Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D

Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1

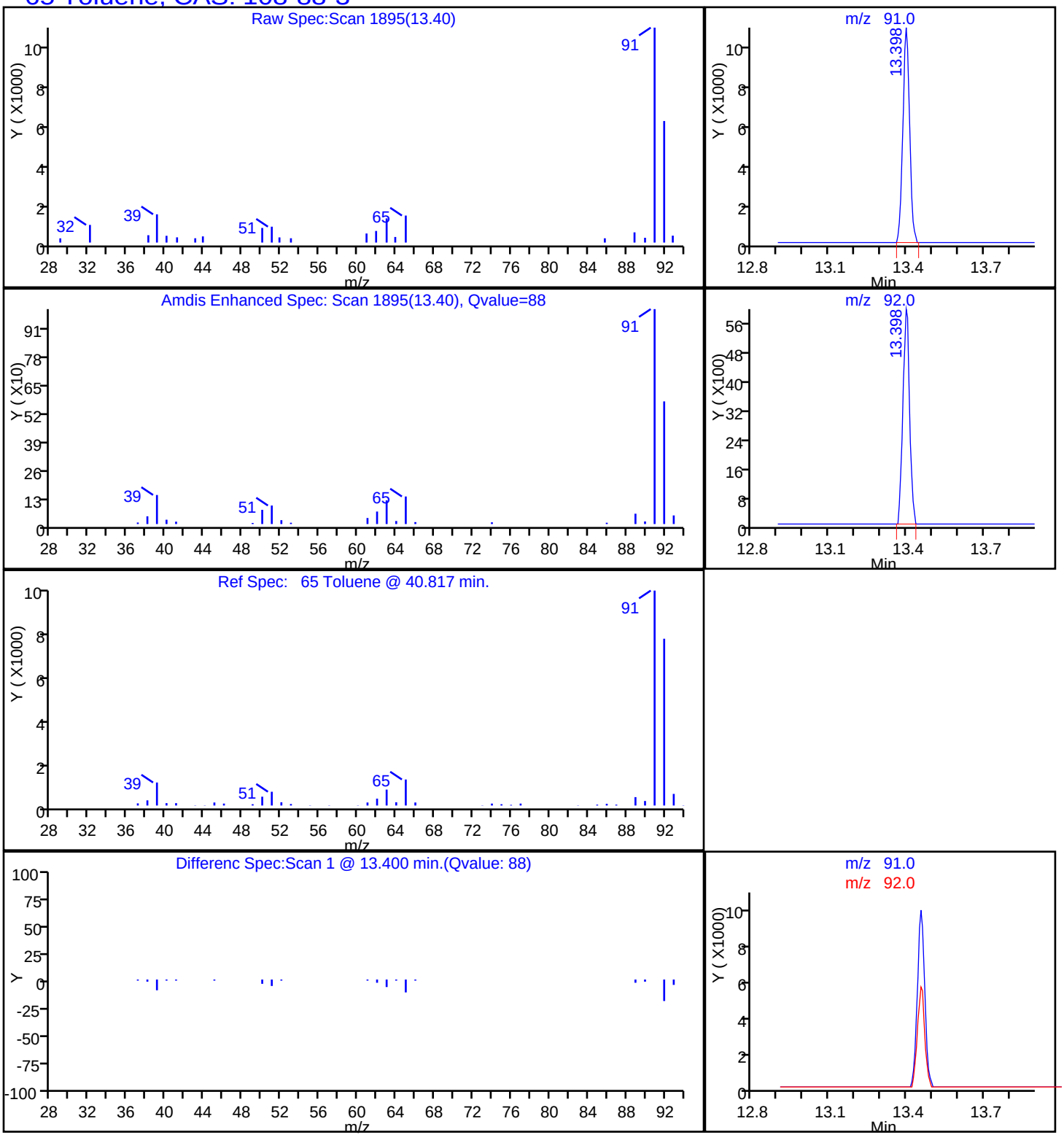


Report Date: 25-Mar-2014 14:38:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D		
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2
Client ID:	PCV-IA2-B19		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

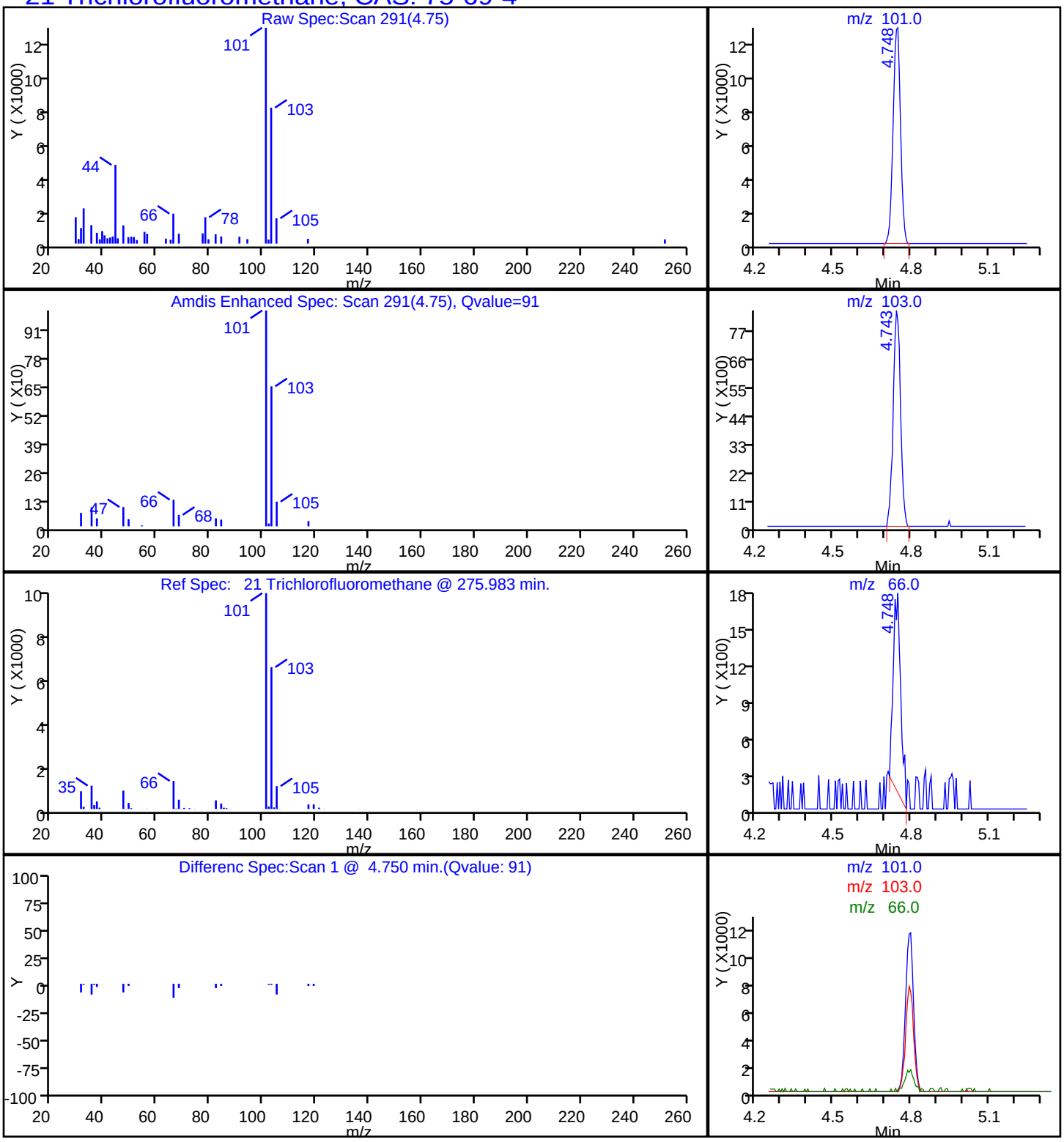
65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P203.D				
Injection Date:	15-Mar-2014 06:34:30	Instrument ID:	ME		
Lims ID:	140-1054-A-2	Lab Sample ID:	140-1054-2		
Client ID:	PCV-IA2-B19				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.041	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.9		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.044	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.61		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.51		0.20	0.068
64-17-5	Ethanol	46.07	17		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.081	J	0.20	0.068
142-82-5	Heptane	100.21	0.053	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.27	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.44	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.30		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.11	J	0.20	0.061
115-07-1	Propene	42.08	1.5	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.24		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.71	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	8.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	8.7	J	12	3.3
71-43-2	Benzene	78.11	0.65		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.14	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	31		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.35	J	0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.95	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.47	J	0.87	0.26
115-07-1	Propene	42.08	2.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.89		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B21 Lab Sample ID: 140-1054-3

Matrix: Air Lab File ID: EC14P204.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:15

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 07:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D
Lims ID: 140-1054-A-3 Lab Sample ID: 140-1054-3
Client ID: PCV-IA1-B21
Sample Type: Client
Inject. Date: 15-Mar-2014 07:19:30 ALS Bottle#: 4 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-3
Misc. Info.: E031414,TO155,,140-0000522-026
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:38:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:38:38

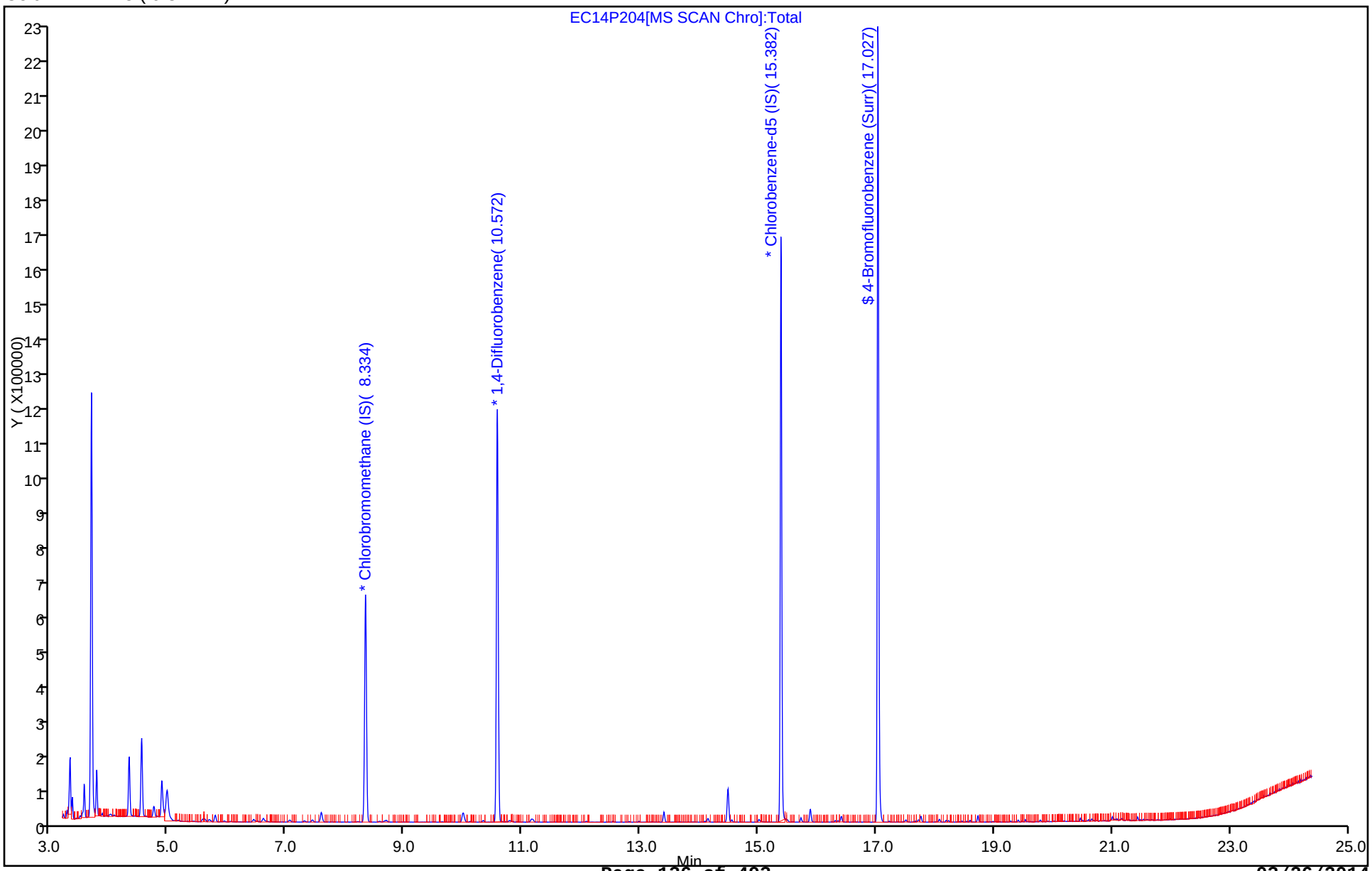
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	80	187867	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	913634	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	815563	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	764739	4.28	
7 Propene	41	3.319	3.314	0.005	76	28339	0.5997	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	100	42257	0.2033	
9 Chloromethane	52	3.530	3.530	0.0	96	4078	0.2458	
17 Ethanol	31	4.322	4.317	0.005	98	125542	6.68	
19 2-Methylbutane	43	4.538	4.538	0.0	87	76401	1.16	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	24154	0.1159	
23 Acetone	58	4.883	4.883	0.0	93	41785	1.47	
24 Isopropyl alcohol	45	4.980	4.975	0.005	93	63059	0.8608	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	56	3421	0.0265	
31 Methylene Chloride	84	5.789	5.795	-0.006	70	9446	0.1760	
33 Carbon disulfide	76	5.940	5.940	0.0	79	3387	0.0174	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	83	2954	0.0961	
40 Hexane	56	7.585	7.590	-0.005	74	5369	0.1074	
48 Benzene	78	9.995	9.995	0.0	91	14995	0.0816	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	62	4926	0.0279	
53 Isooctane	57	10.777	10.788	-0.011	52	4634	0.0163	
54 n-Heptane	71	11.181	11.182	-0.001	54	1465	0.0211	
65 Toluene	91	13.398	13.403	-0.005	87	20729	0.0949	
76 Ethylbenzene	91	15.722	15.722	0.0	78	9091	0.0325	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	97	26311	0.1195	
82 o-Xylene	91	16.412	16.412	0.0	81	10256	0.0431	

Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3	Worklist Smp#:	26
Client ID:	PCV-IA1-B21				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

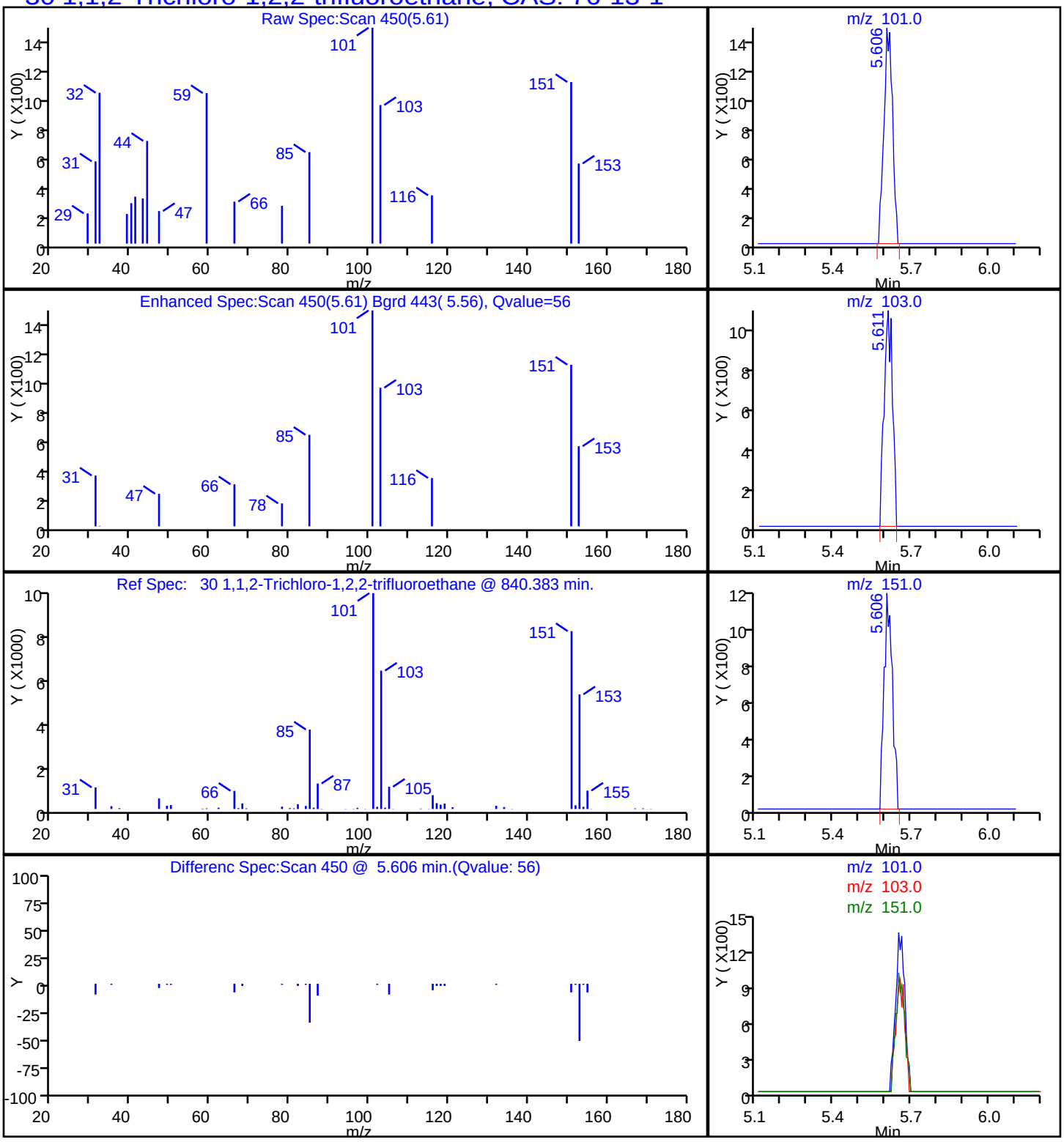
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

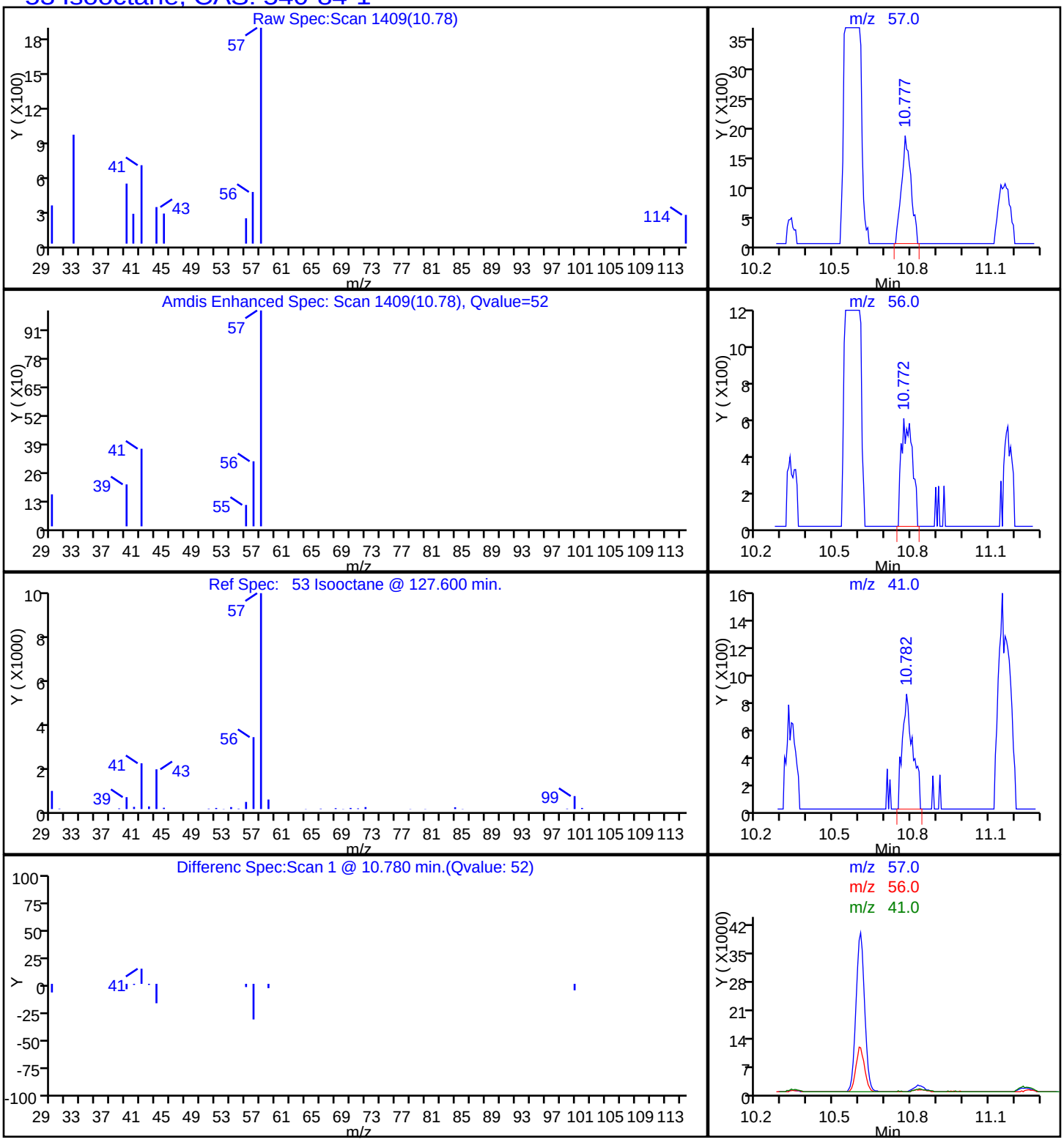


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



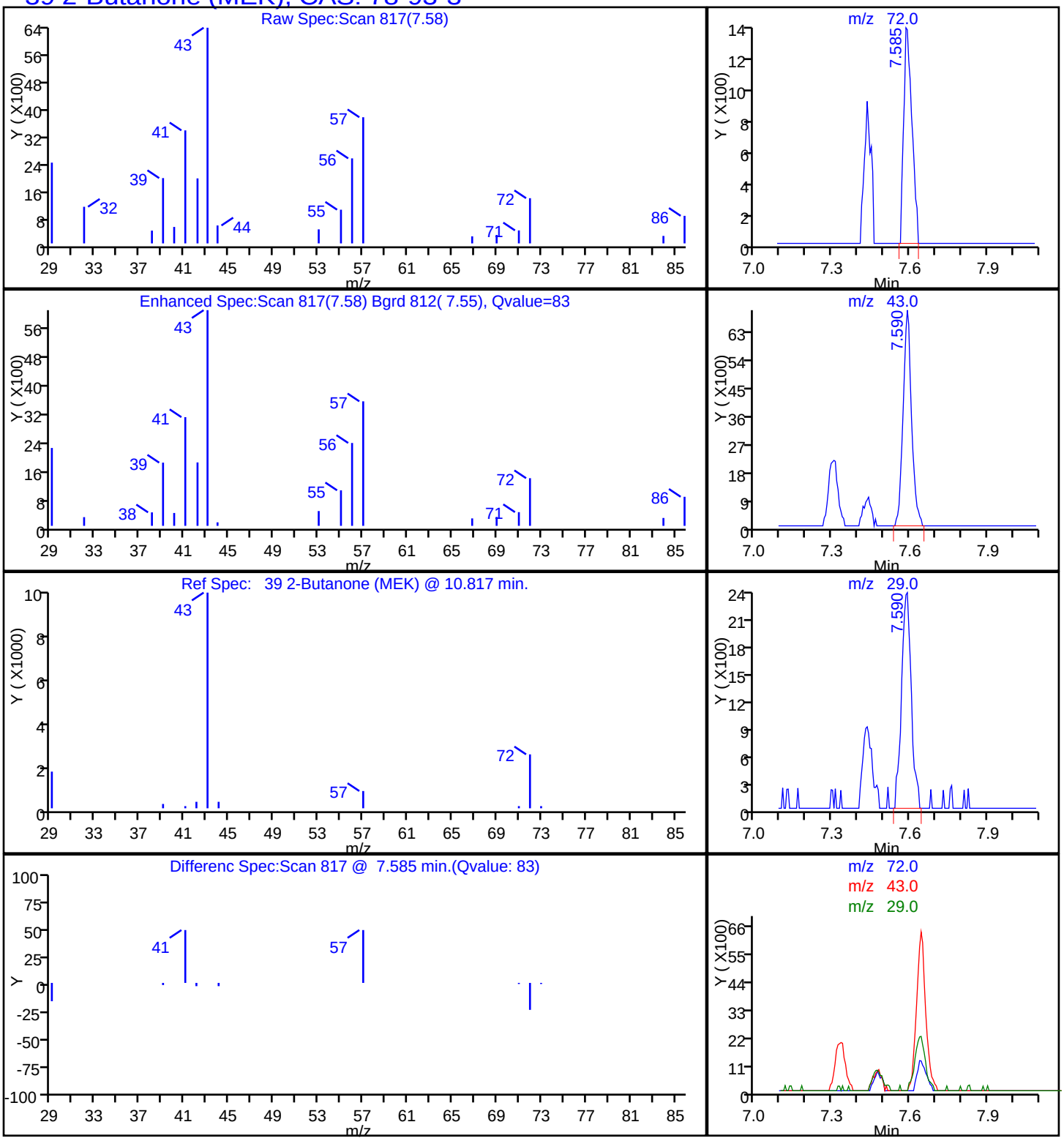
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D

Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



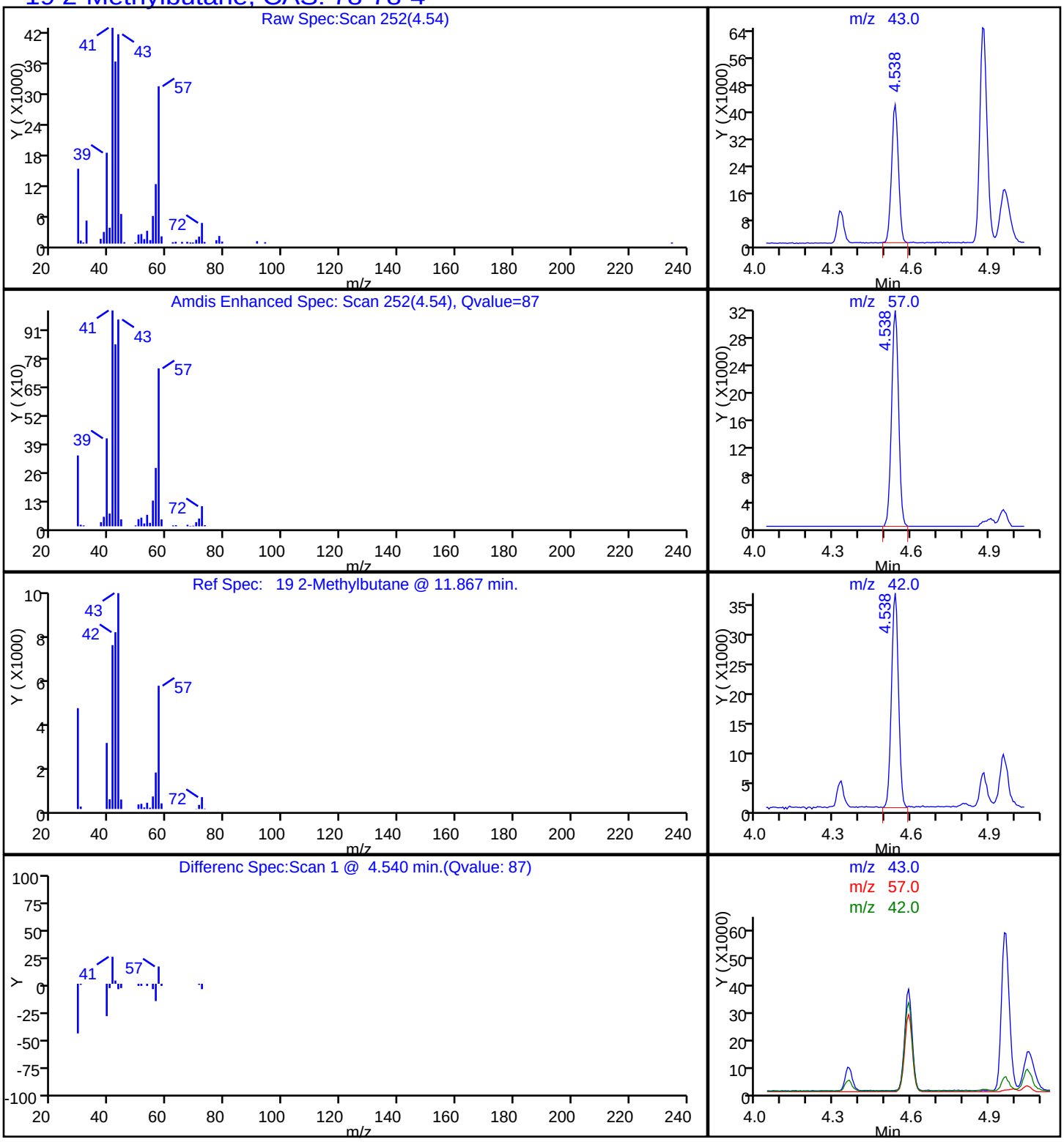
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D

Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

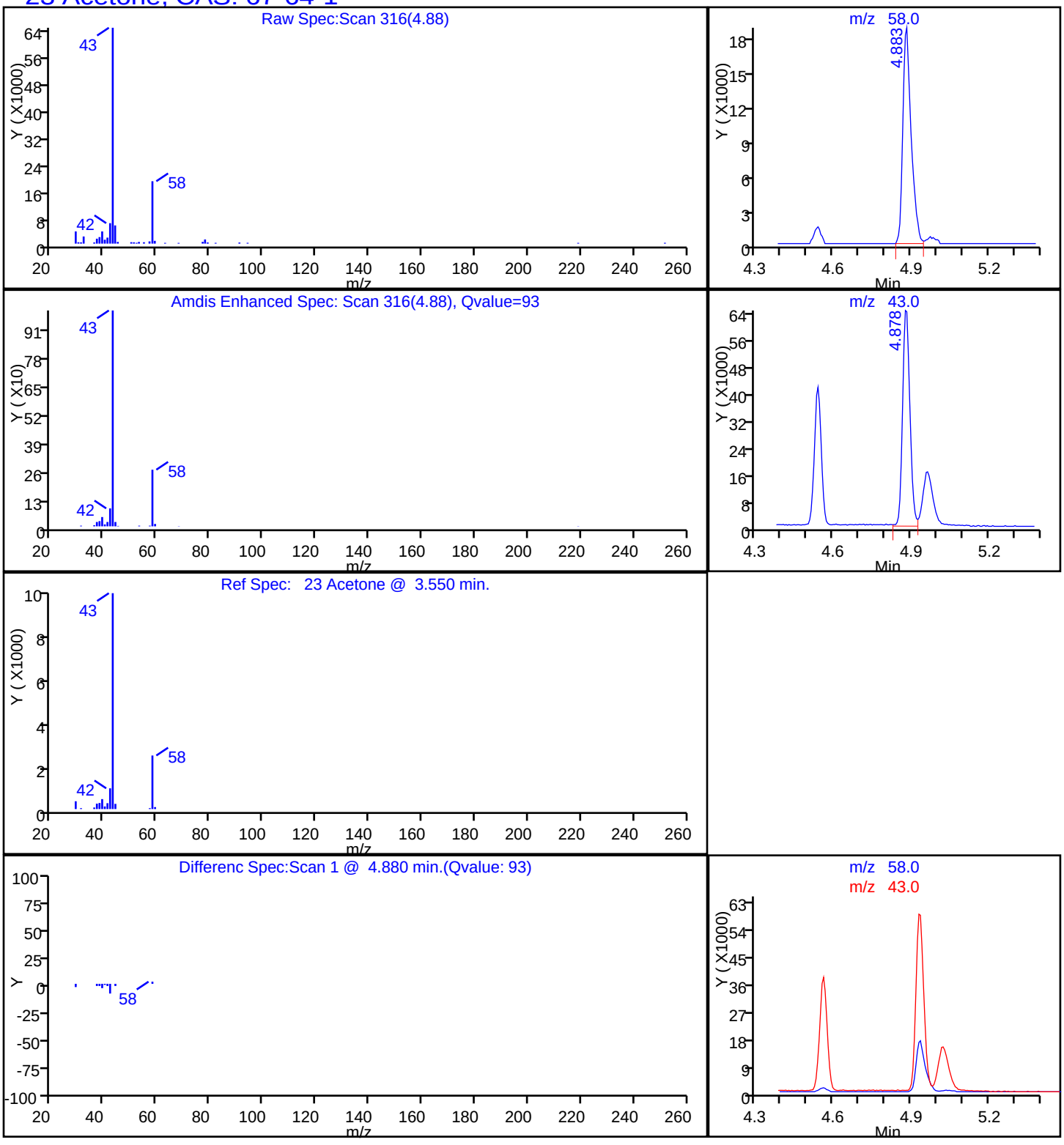


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D		
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

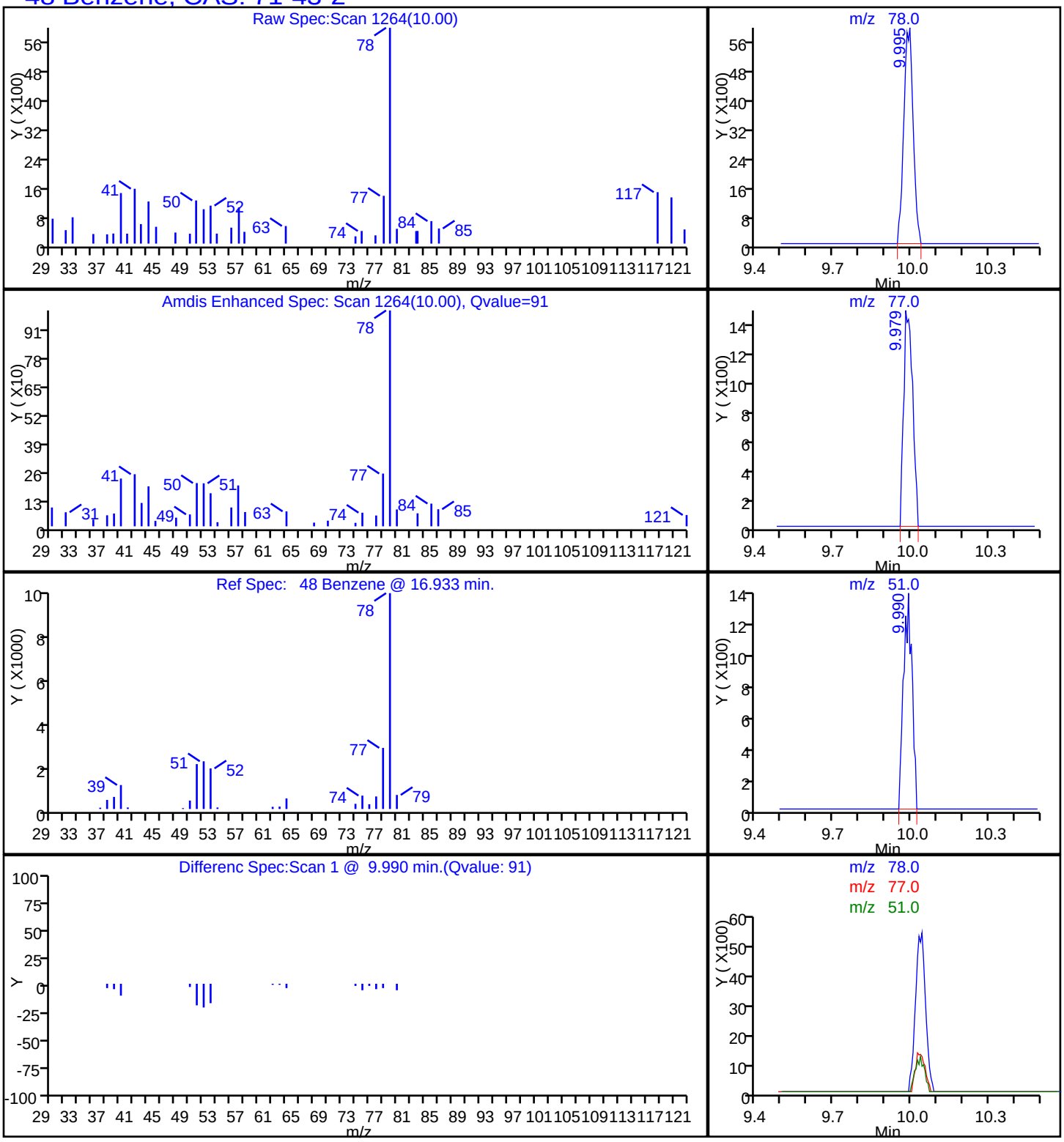


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2

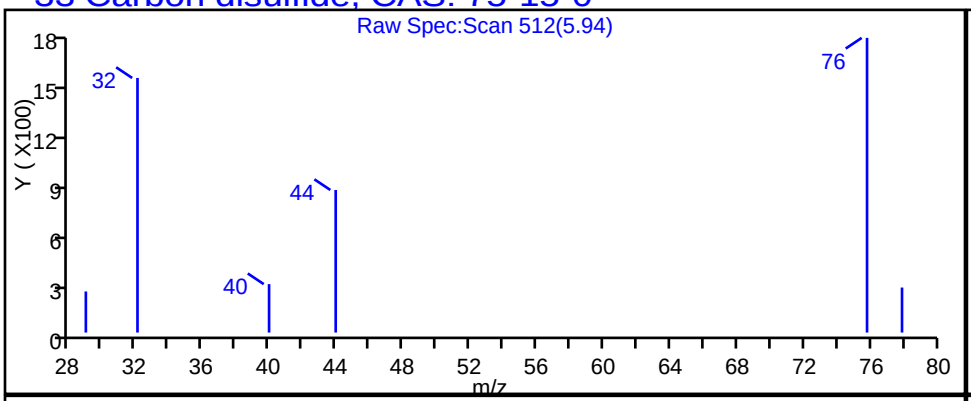


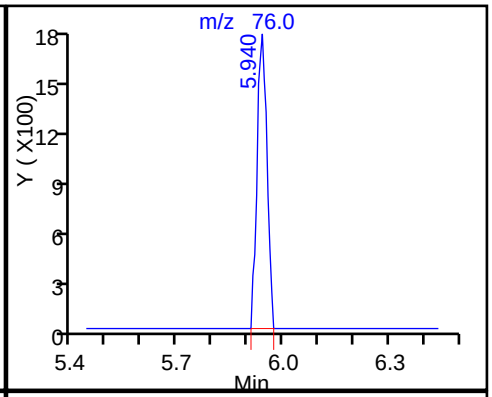
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

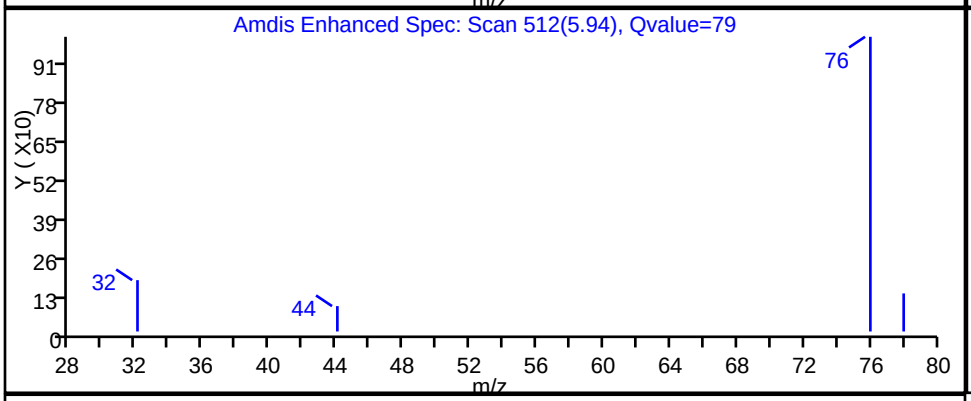
TestAmerica Knoxville

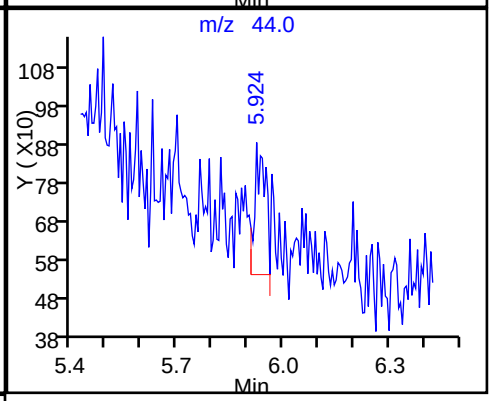
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D		
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

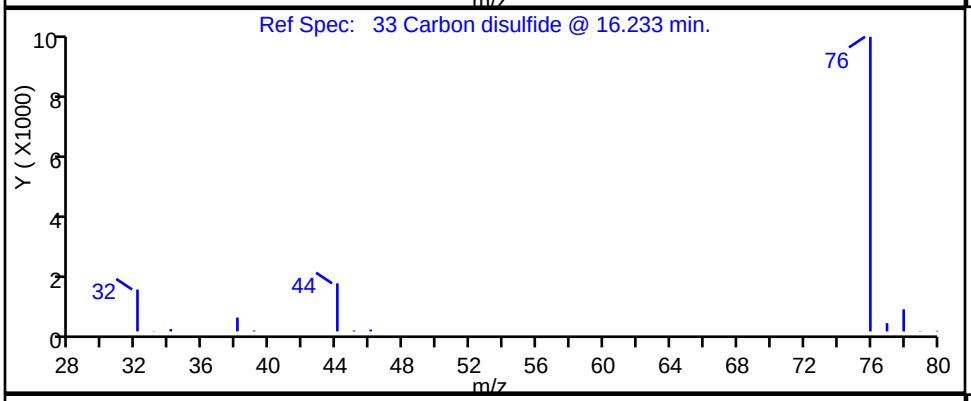
33 Carbon disulfide, CAS: 75-15-0

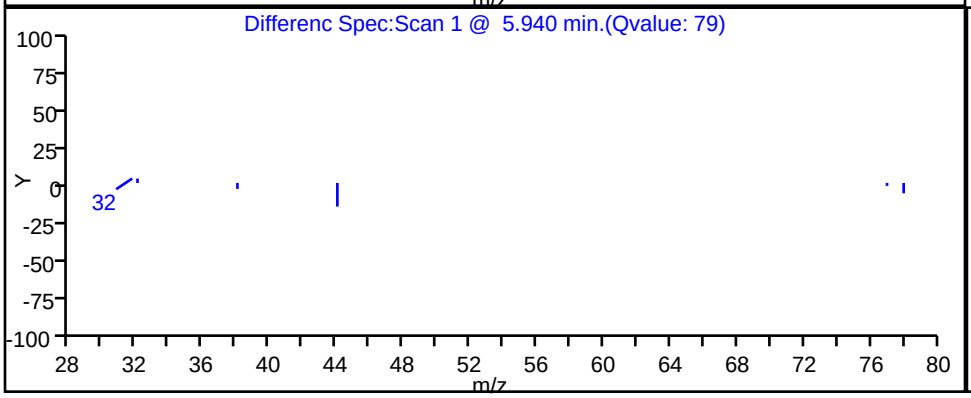


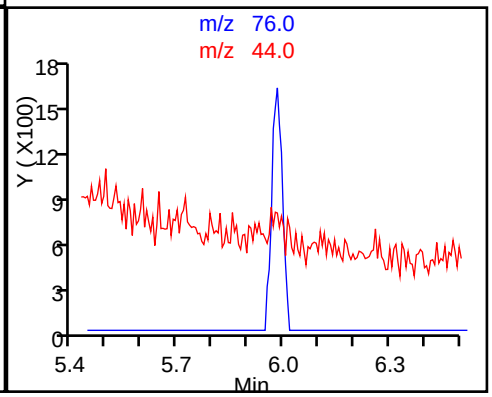












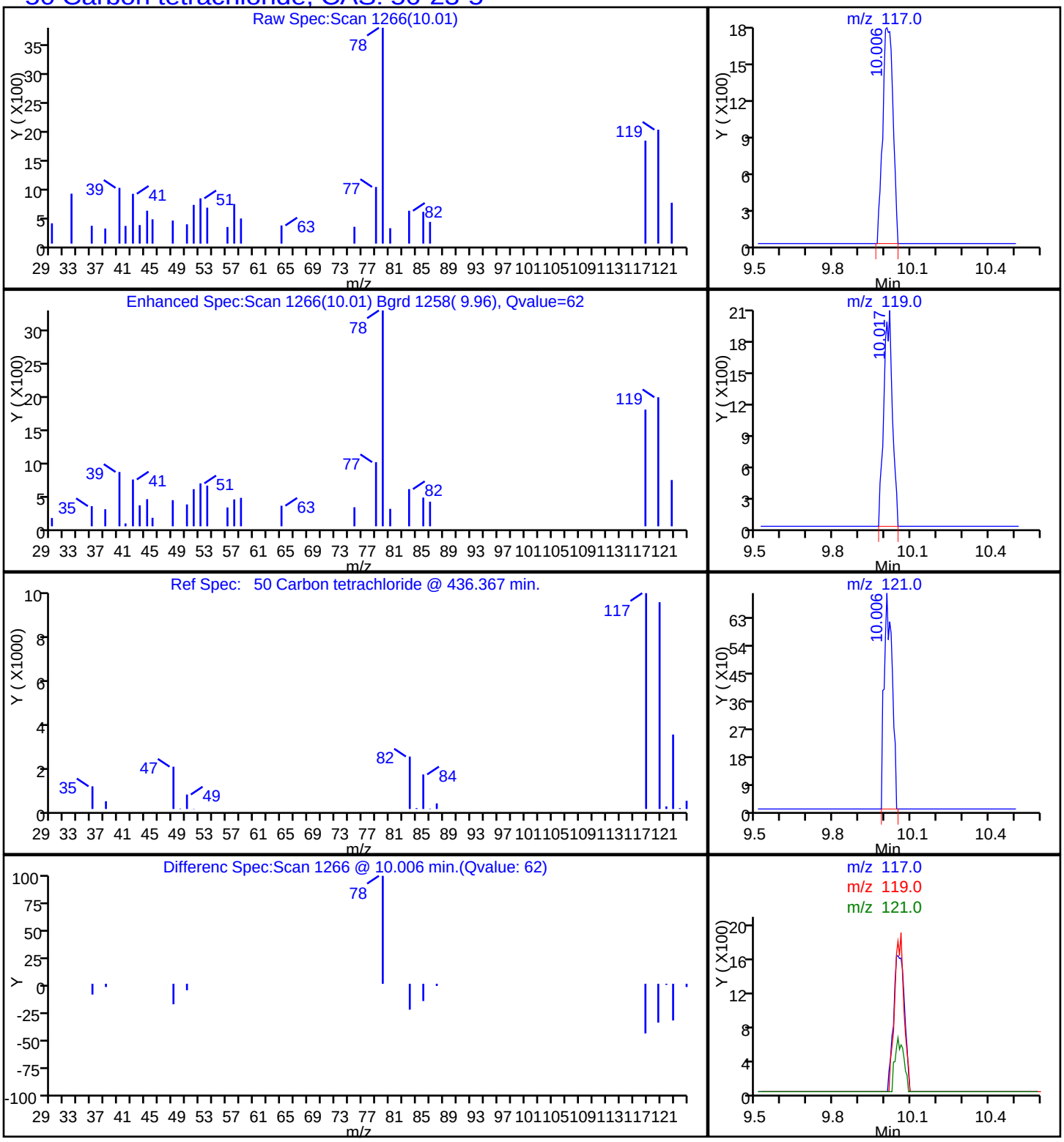
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D

Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
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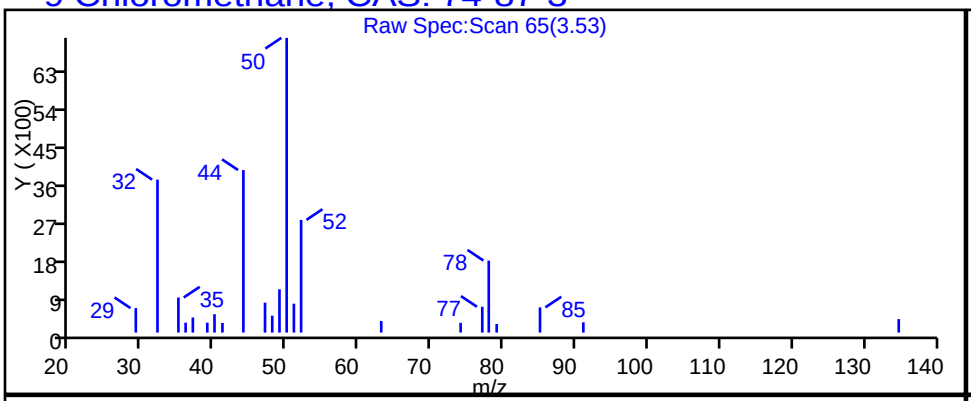
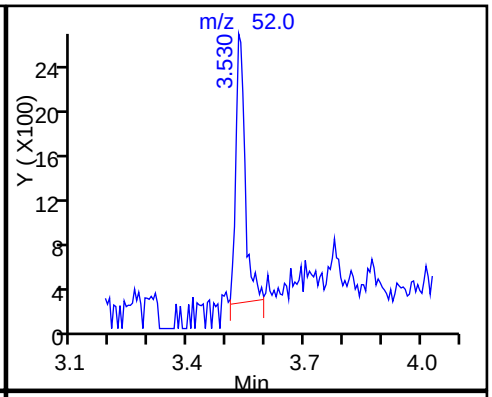
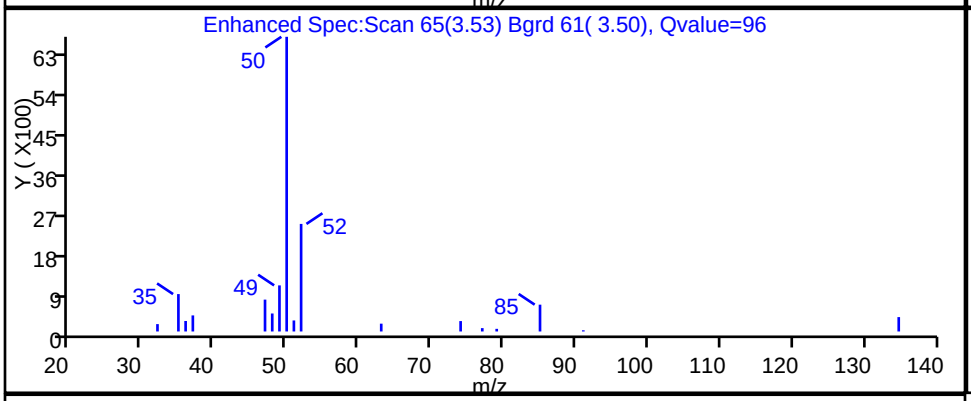
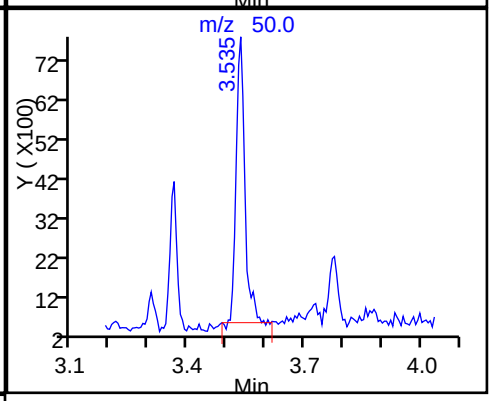
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

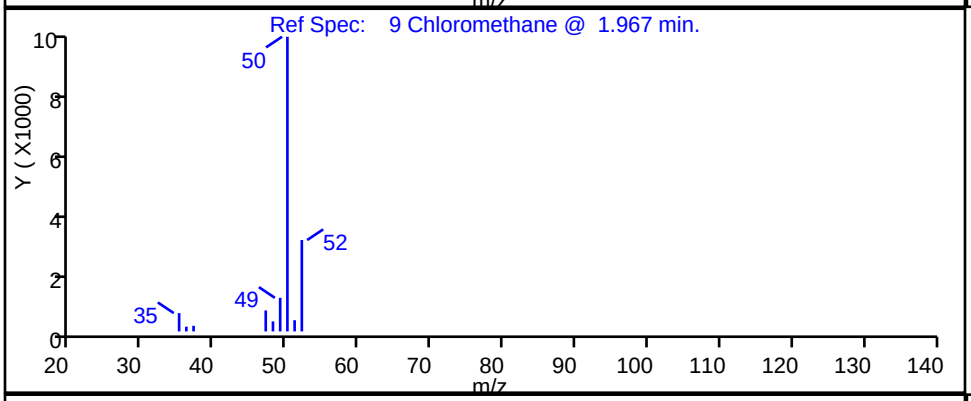
9 Chloromethane, CAS: 74-87-3

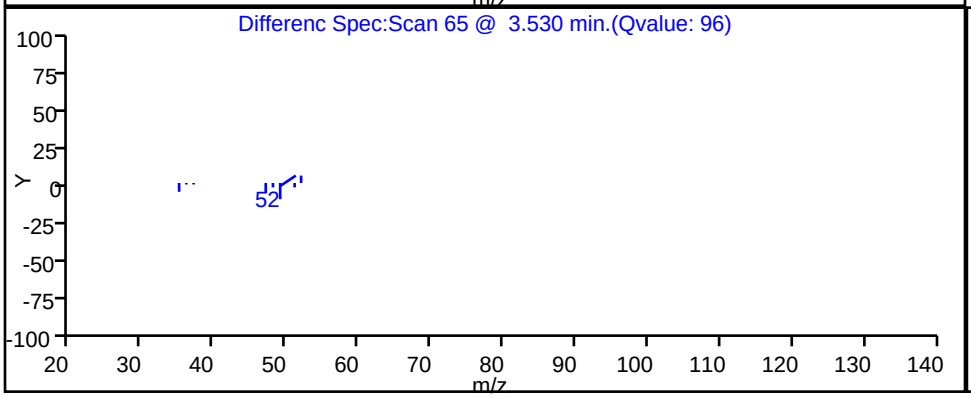


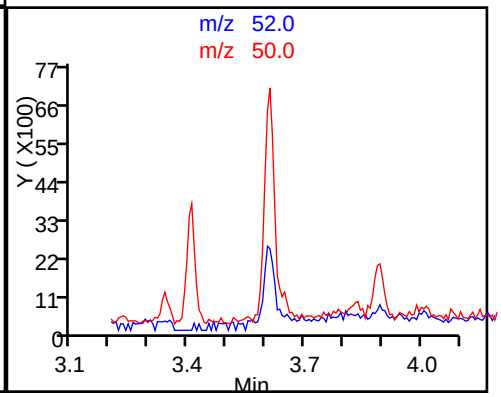








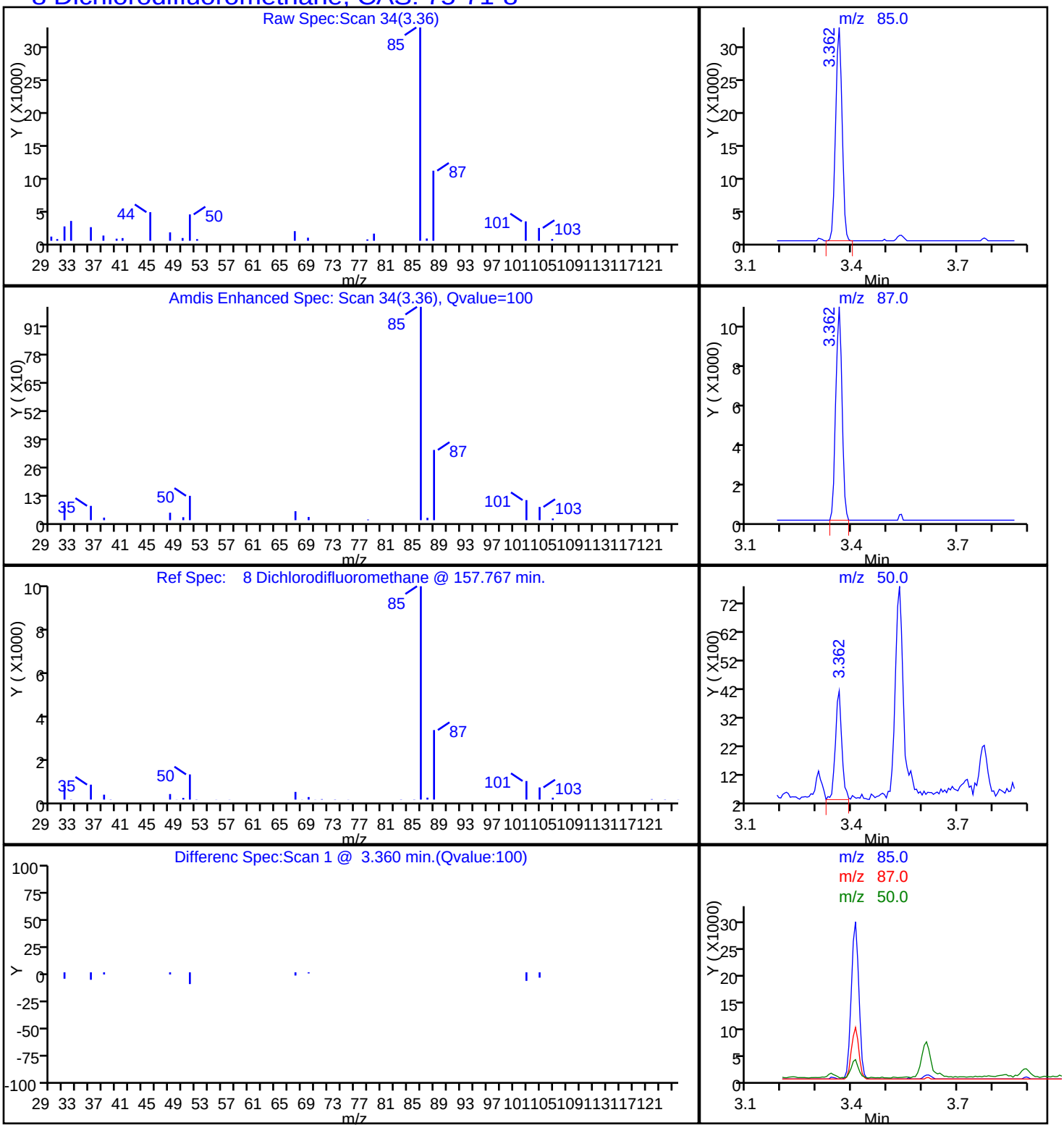




TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
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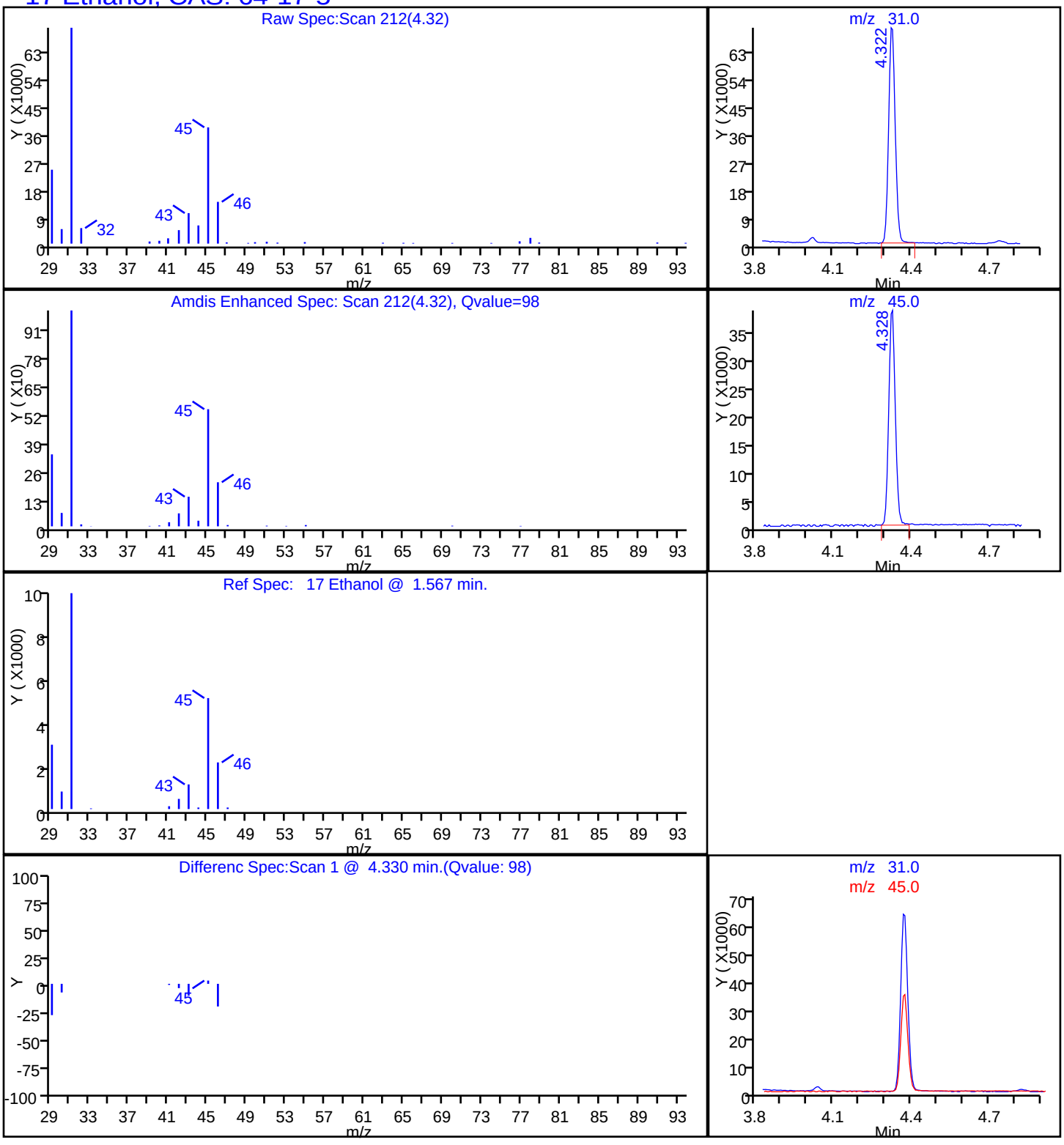
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



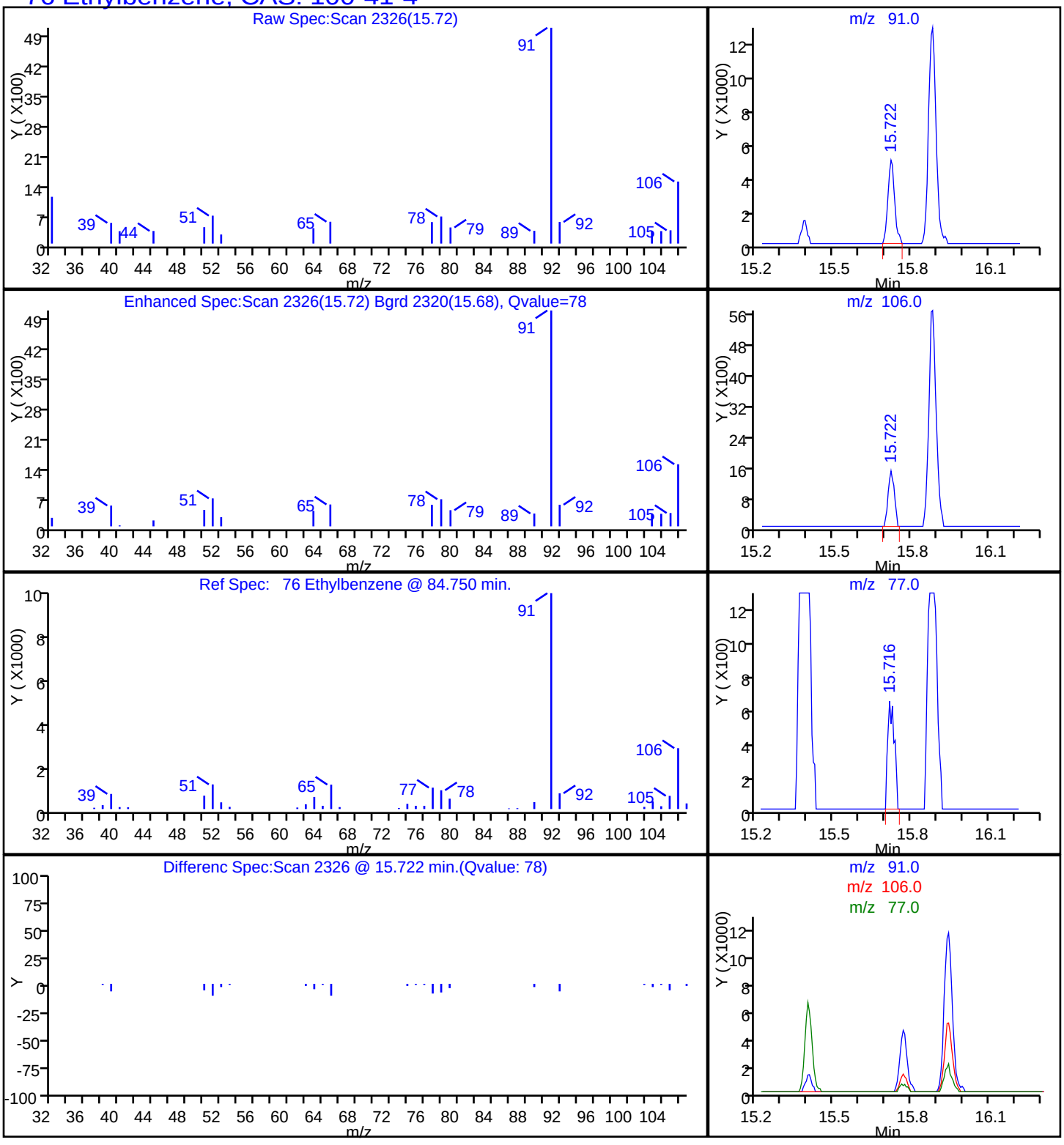
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D

Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



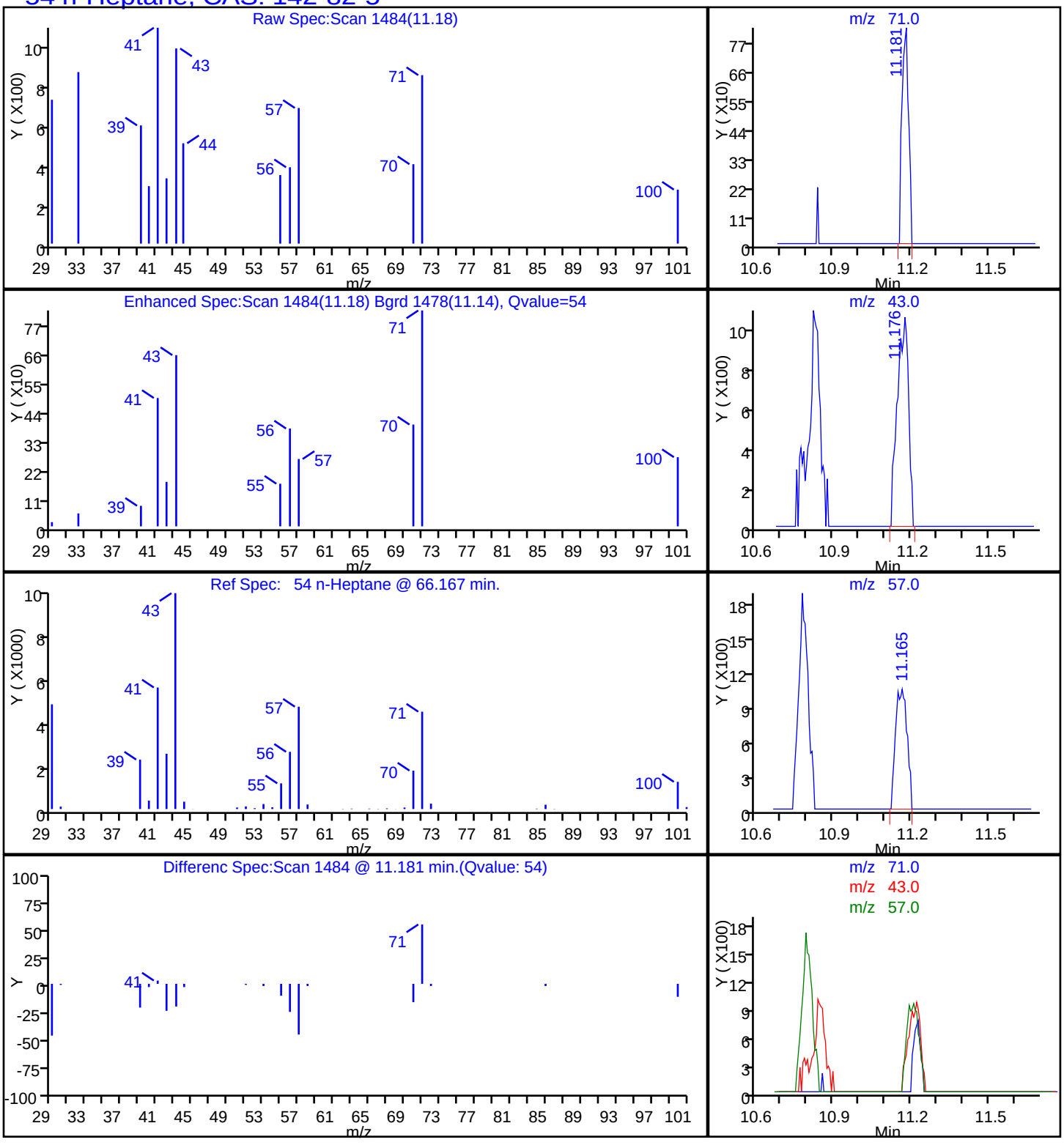
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D

Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

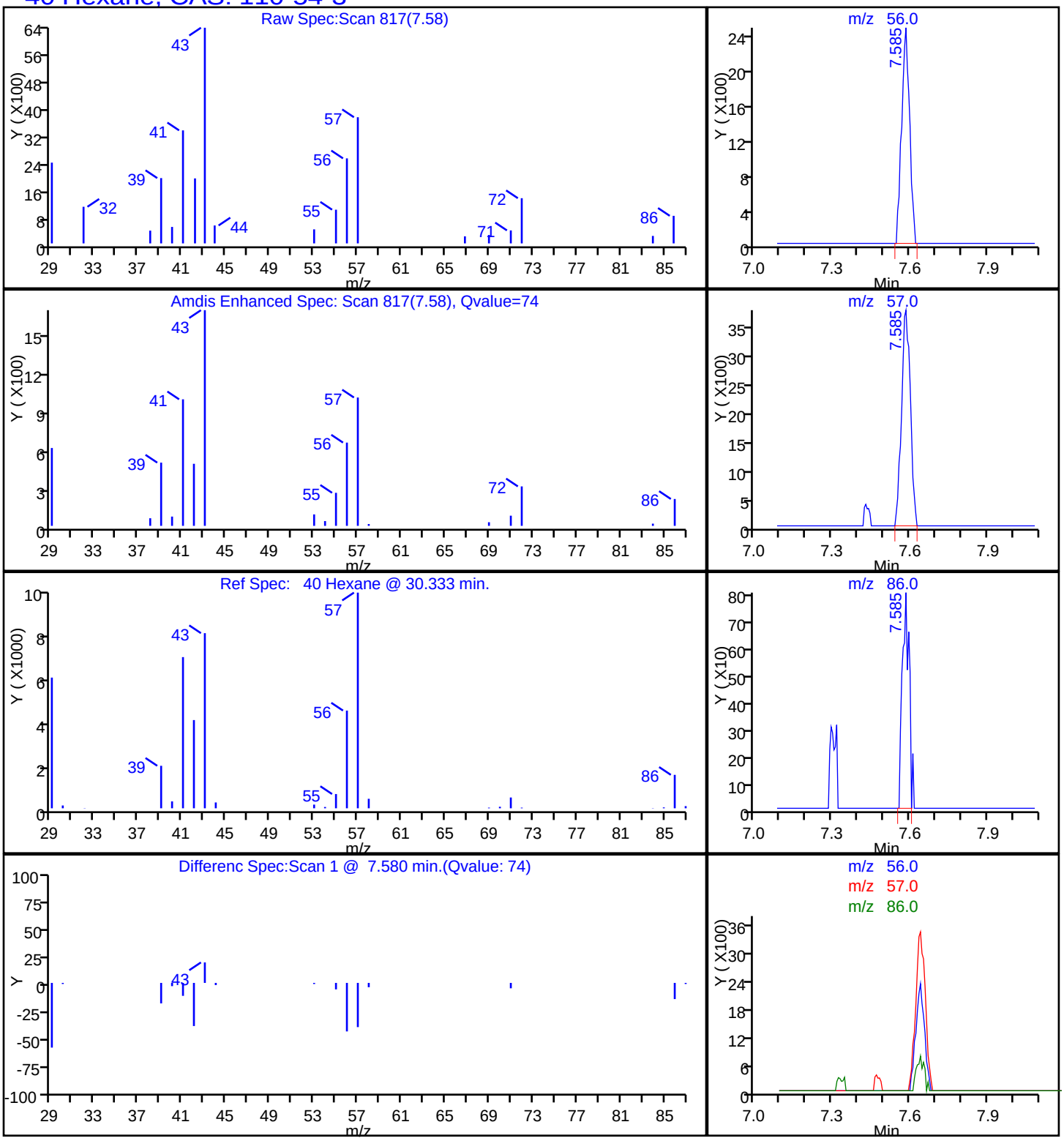


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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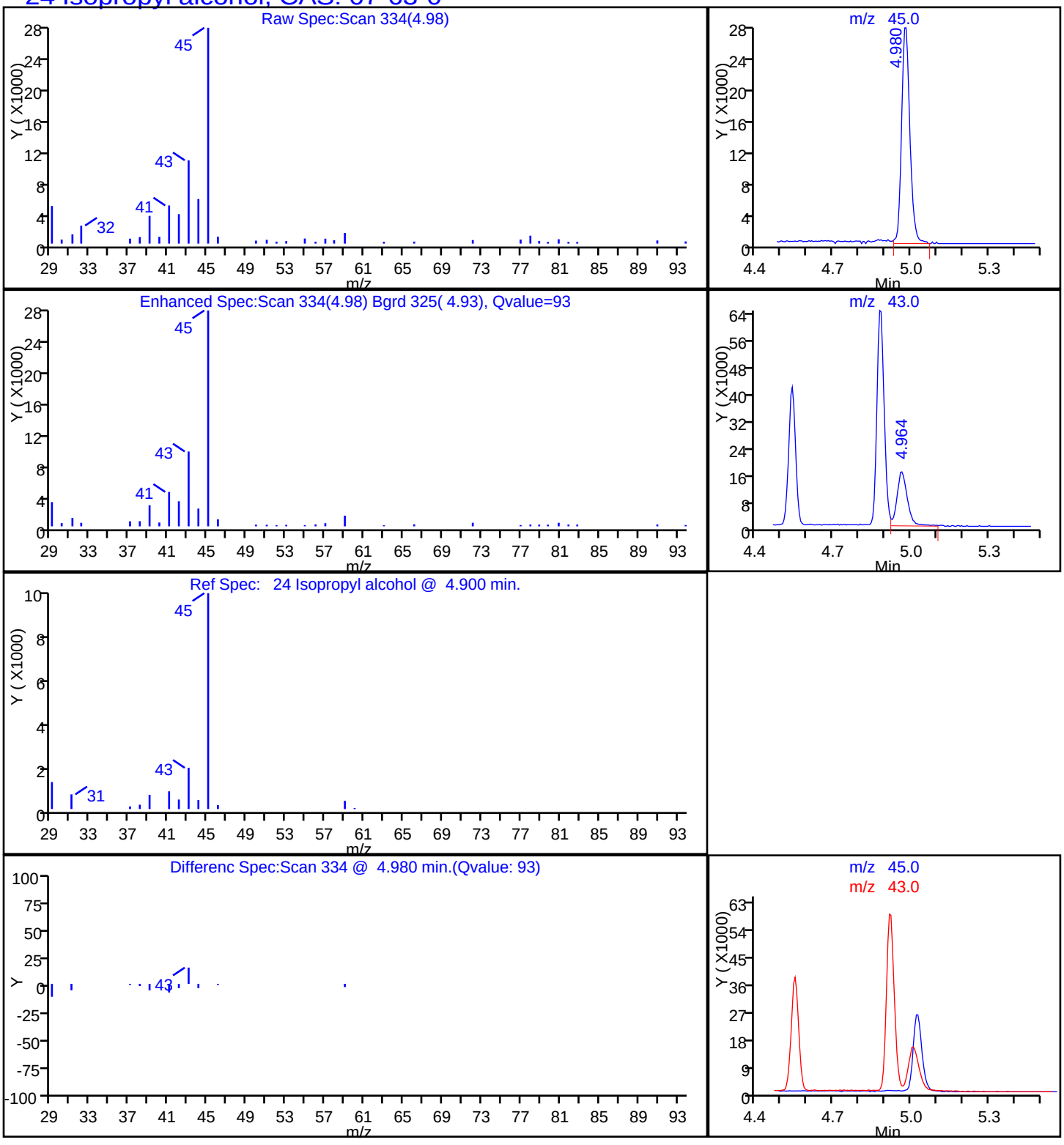
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

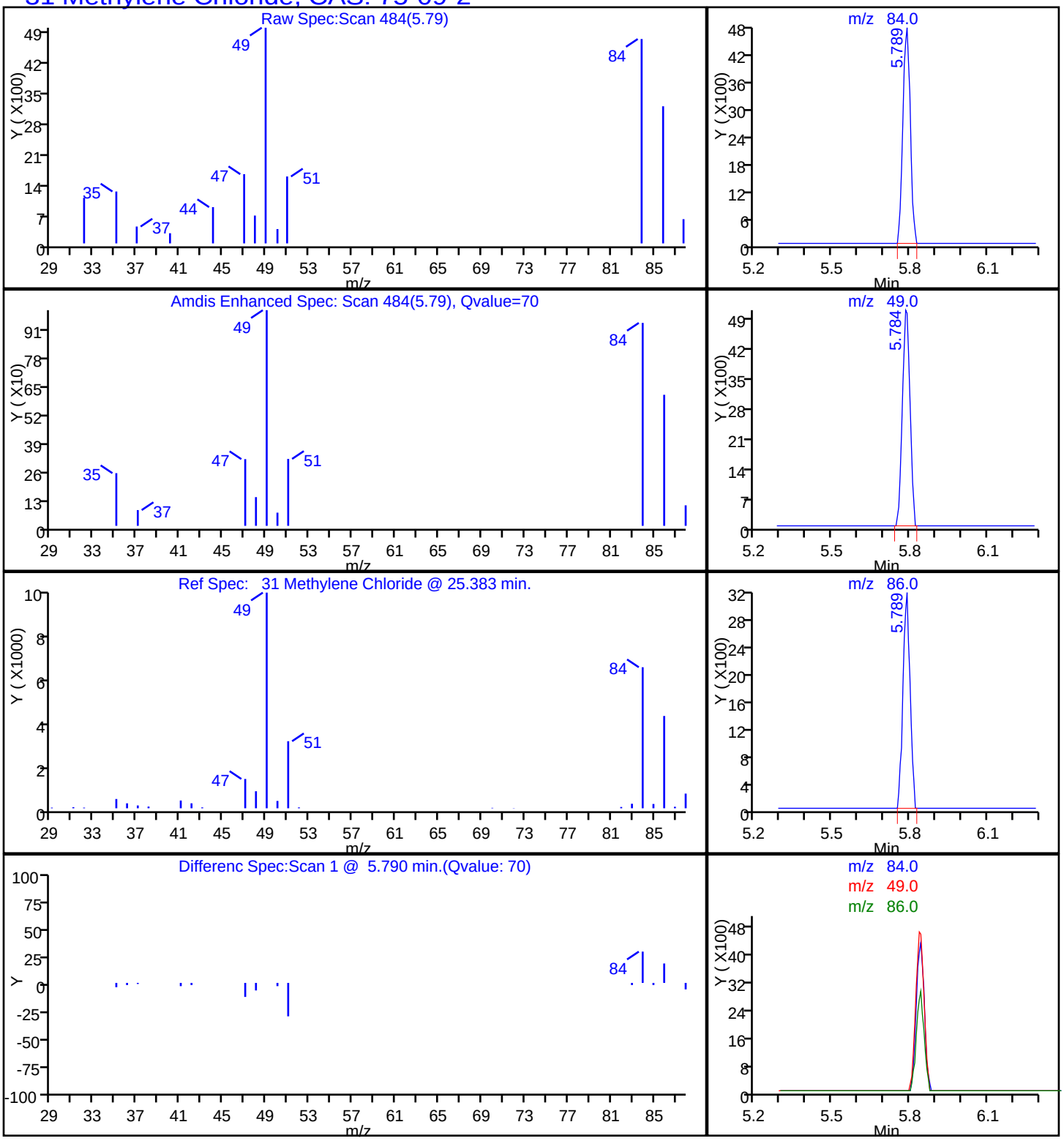


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

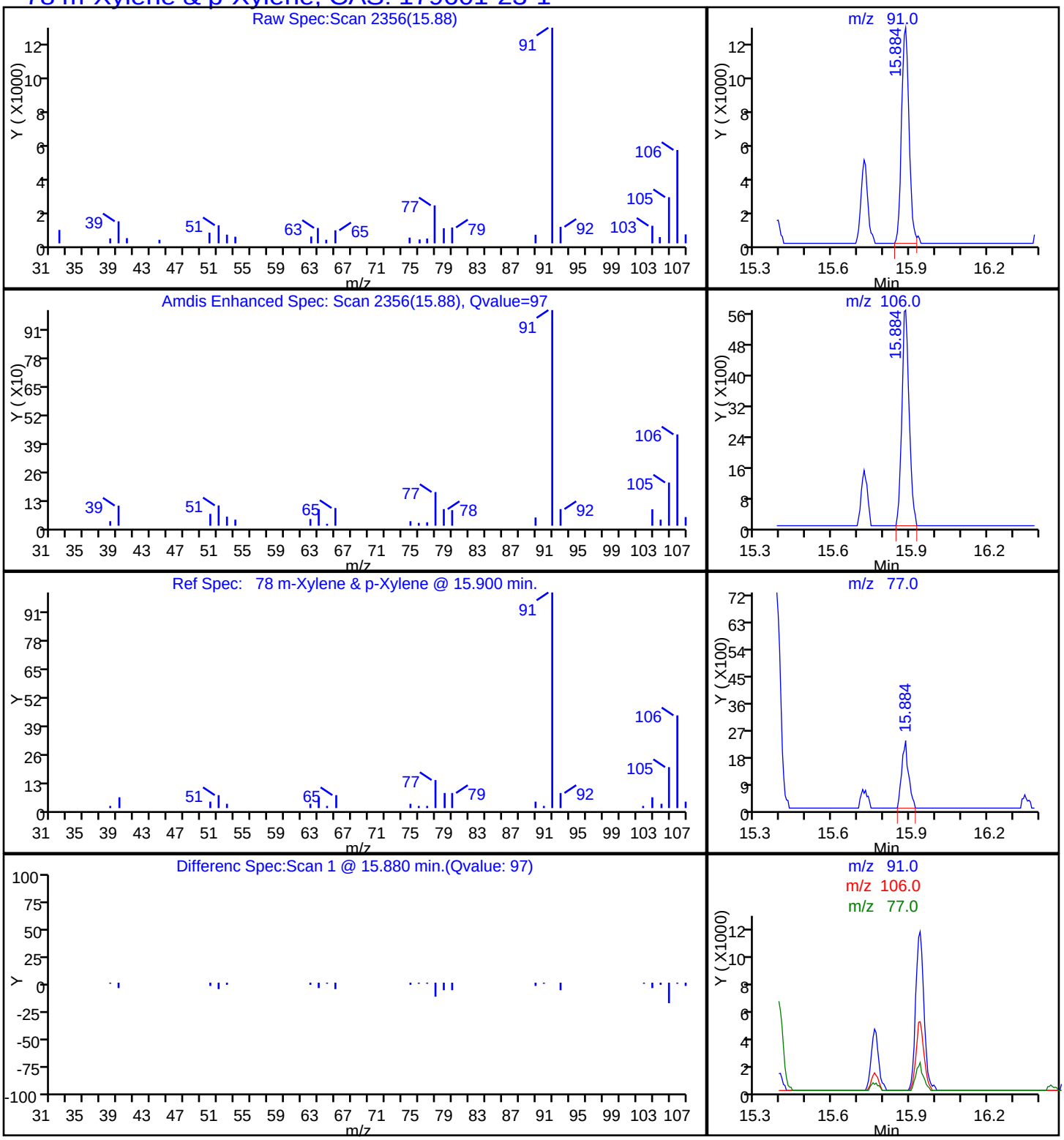


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
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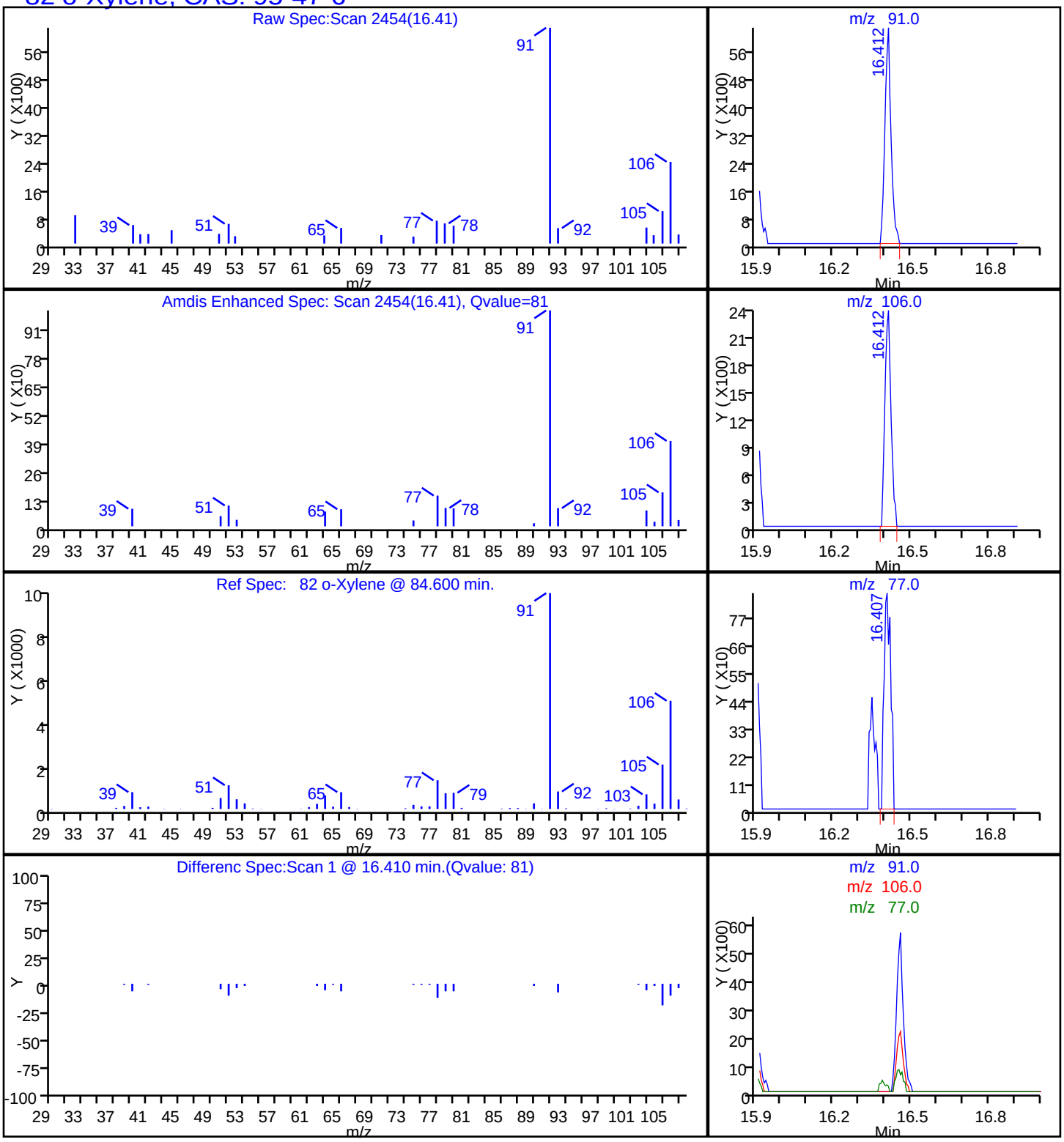
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6

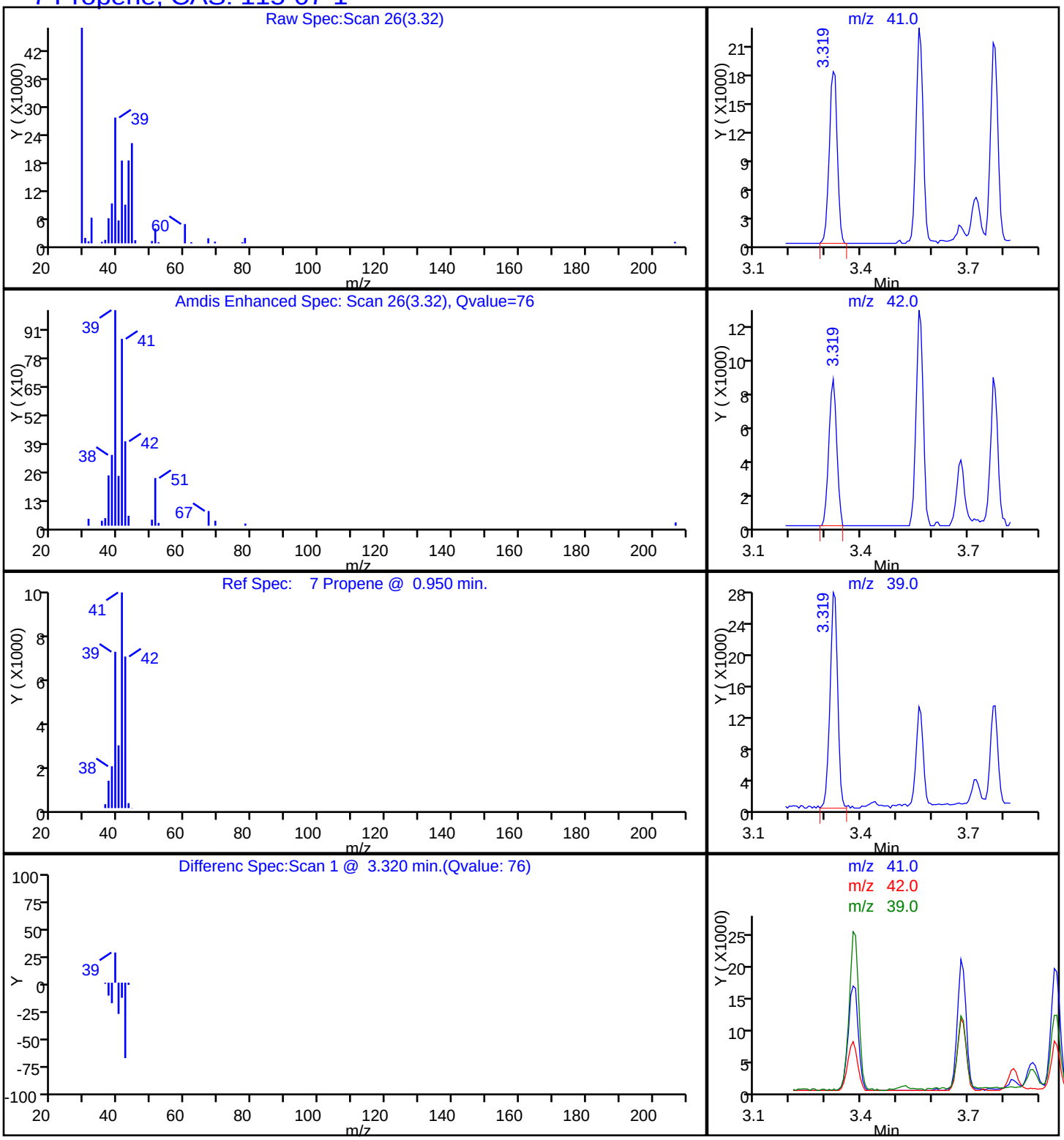


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D		
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1

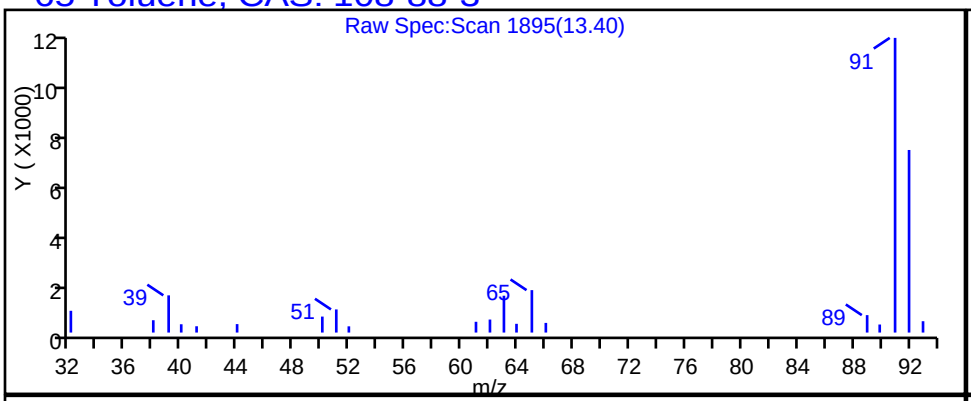


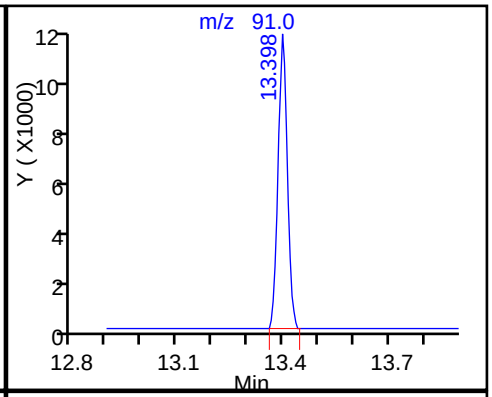
Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

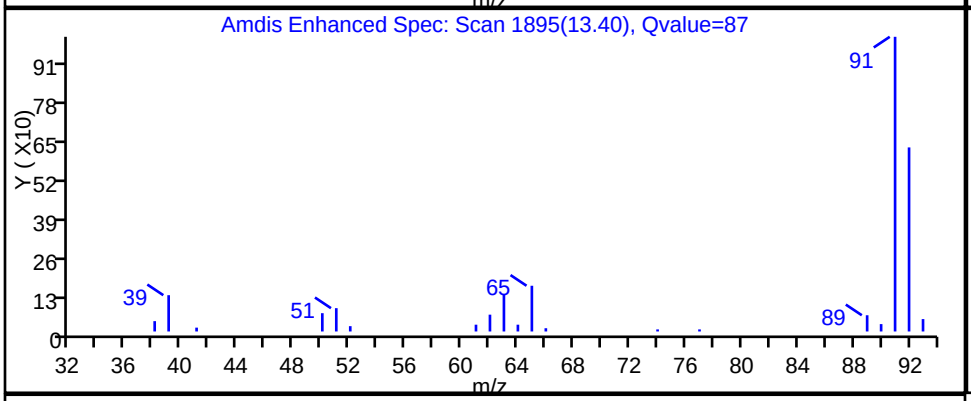
TestAmerica Knoxville

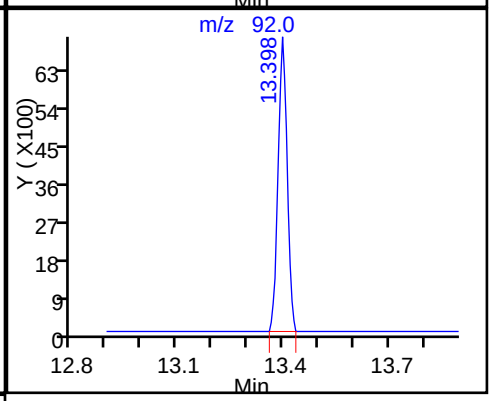
Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D		
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3
Client ID:	PCV-IA1-B21		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

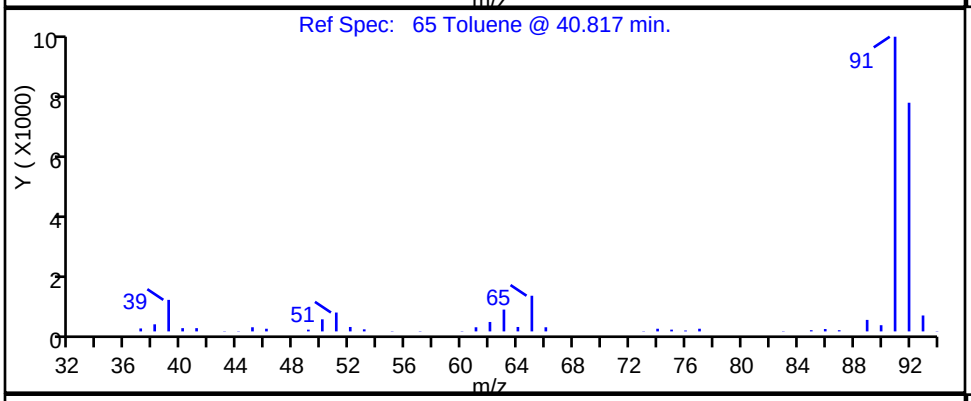
65 Toluene, CAS: 108-88-3

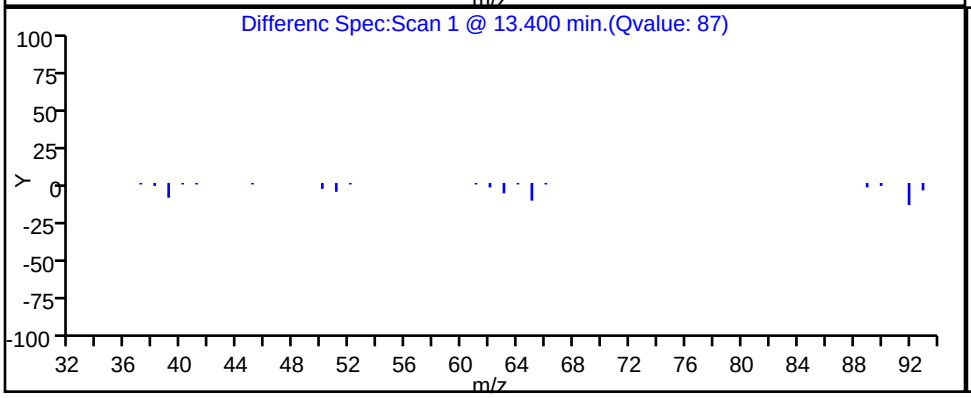


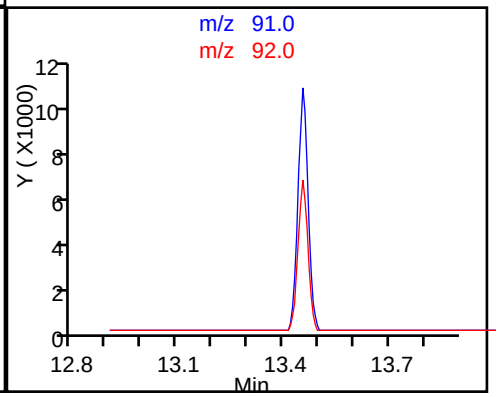










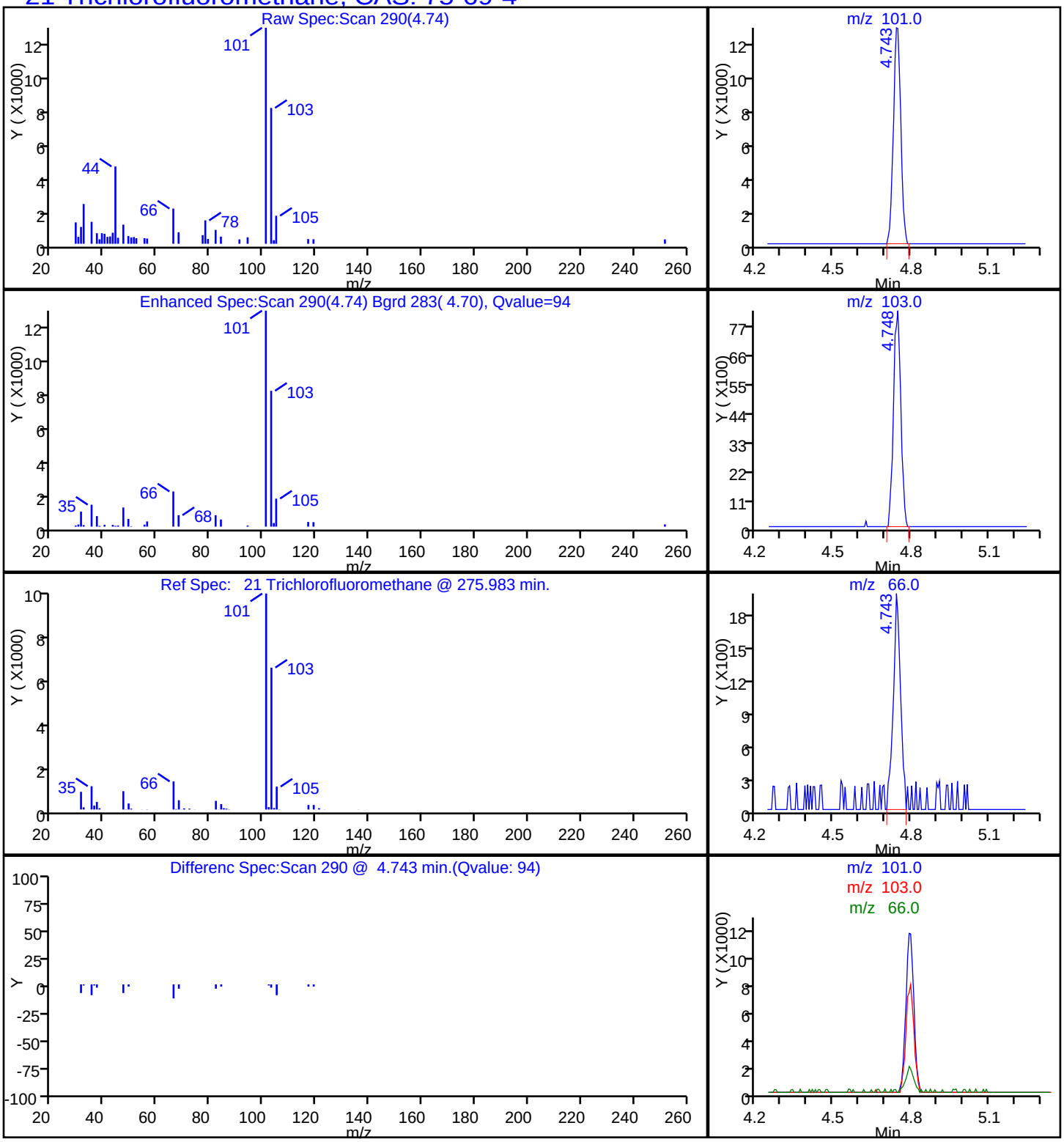


Report Date: 25-Mar-2014 14:38:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P204.D				
Injection Date:	15-Mar-2014 07:19:30	Instrument ID:	ME		
Lims ID:	140-1054-A-3	Lab Sample ID:	140-1054-3		
Client ID:	PCV-IA1-B21				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.044	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.80		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.21		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.040	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.53		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.20	0.068
64-17-5	Ethanol	46.07	10		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.7	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.43	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.20		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.21	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.67		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.15	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.99	0.34
64-17-5	Ethanol	46.07	20		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.46	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.1	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.75		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA1-B19 Lab Sample ID: 140-1054-4

Matrix: Air Lab File ID: EC14P205.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:42

Sample wt/vol: 200(mL) Date Analyzed: 03/15/2014 08:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D
Lims ID: 140-1054-A-4 Lab Sample ID: 140-1054-4
Client ID: PCV-IA1-B19
Sample Type: Client
Inject. Date: 15-Mar-2014 08:05:30 ALS Bottle#: 5 Worklist Smp#: 27
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-4
Misc. Info.: E031414,TO155,,140-0000522-027
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 16:39:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 16:39:05

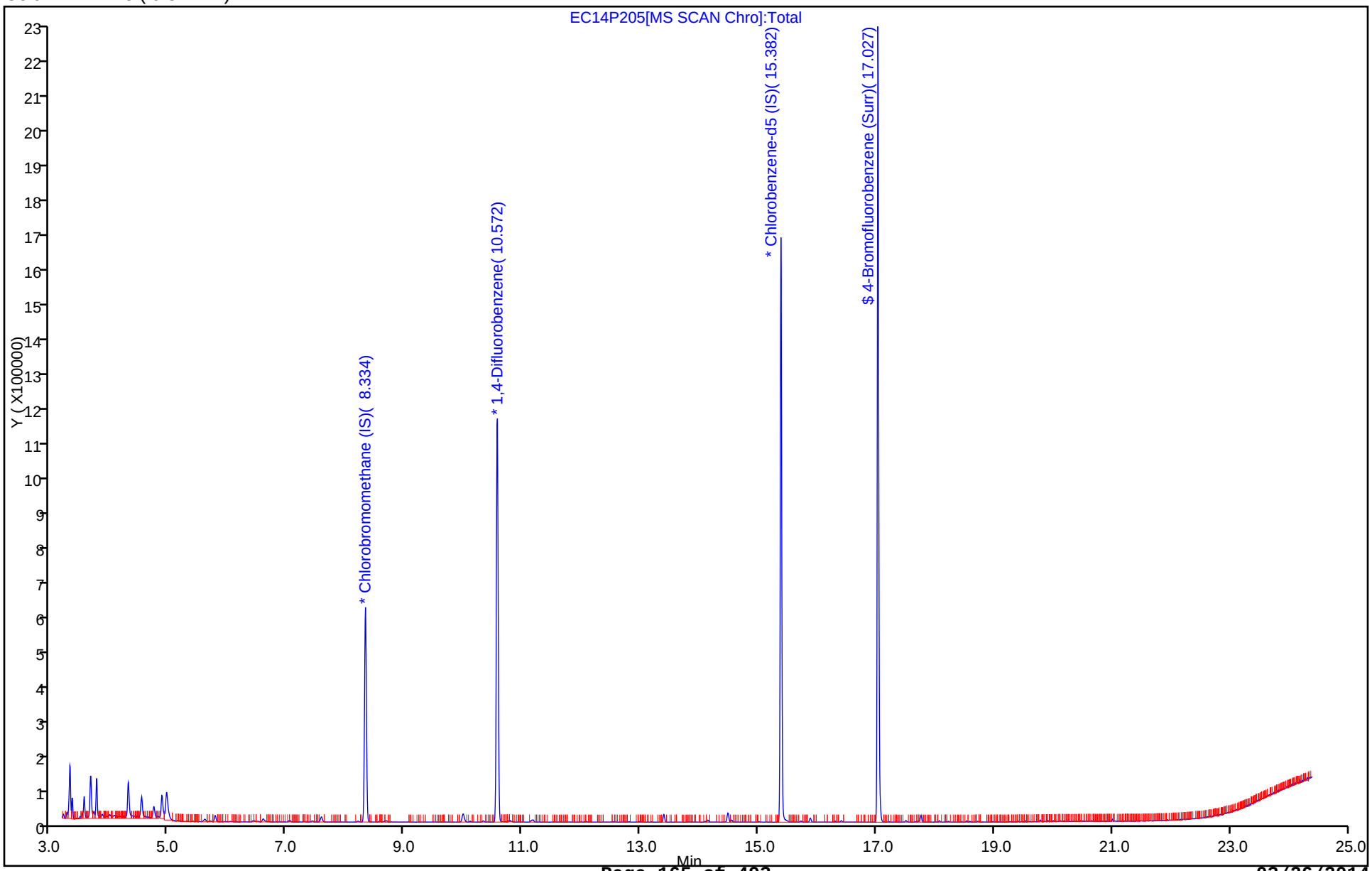
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	175251	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	881219	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	787845	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	82	734859	4.26	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	41120	0.2121	
9 Chloromethane	52	3.530	3.530	0.0	98	3293	0.2128	
15 Bromomethane	94	4.080	4.080	0.0	21	1027	0.0159	
17 Ethanol	31	4.312	4.317	-0.005	98	73499	4.19	
19 2-Methylbutane	43	4.538	4.538	0.0	86	19581	0.3191	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	25039	0.1288	
23 Acetone	58	4.878	4.883	-0.005	100	24526	0.9240	
24 Isopropyl alcohol	45	4.970	4.975	-0.005	81	45617	0.6675	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	62	3618	0.0301	
31 Methylene Chloride	84	5.784	5.795	-0.011	77	8673	0.1732	
40 Hexane	56	7.585	7.590	-0.005	63	2450	0.0526	
48 Benzene	78	9.990	9.995	-0.005	89	14886	0.0839	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	88	4814	0.0283	
53 Isooctane	57	10.788	10.788	0.0	75	4844	0.0177	
65 Toluene	91	13.398	13.403	-0.005	84	16771	0.0795	

Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4	Worklist Smp#:	27
Client ID:	PCV-IA1-B19				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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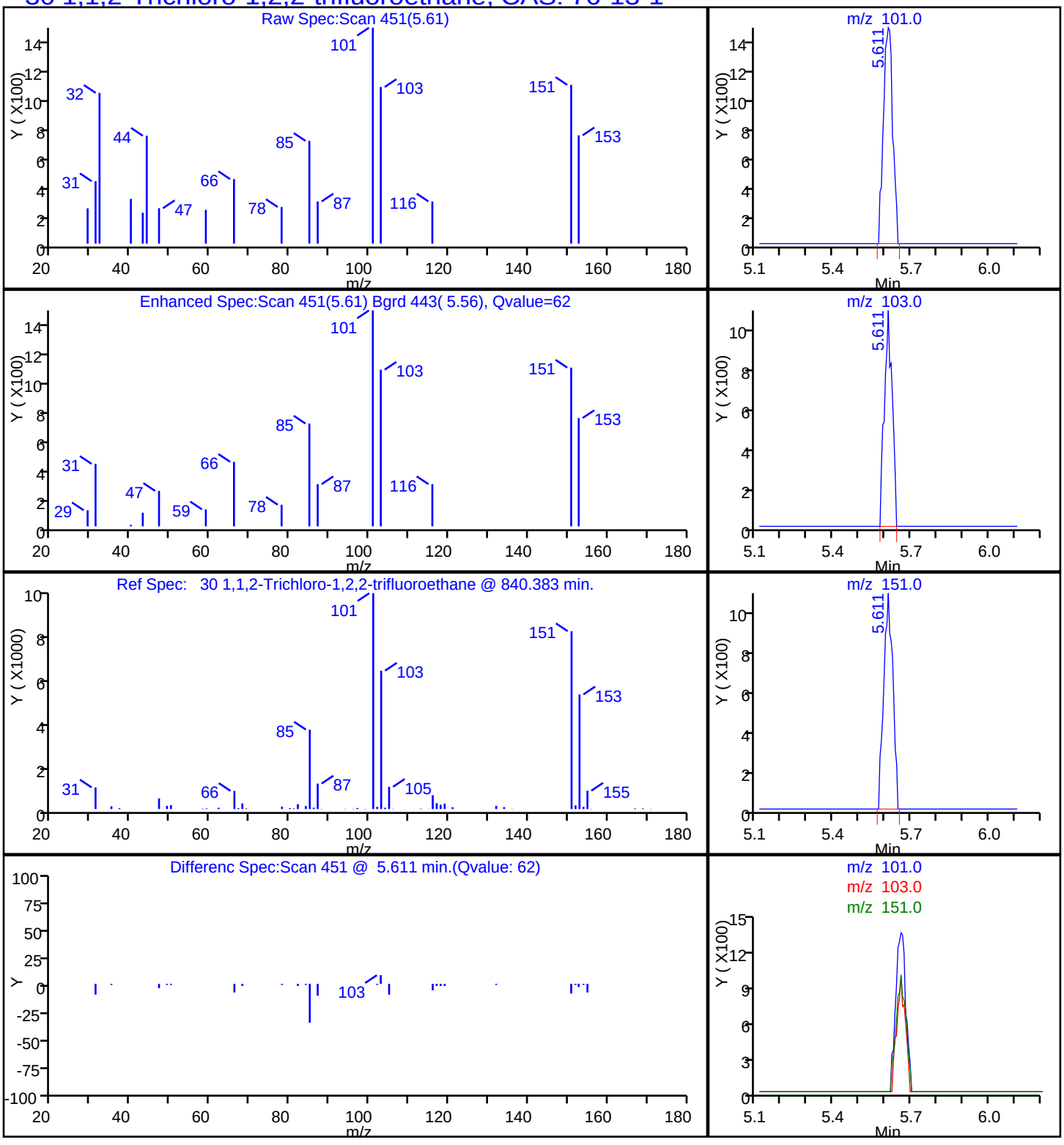
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

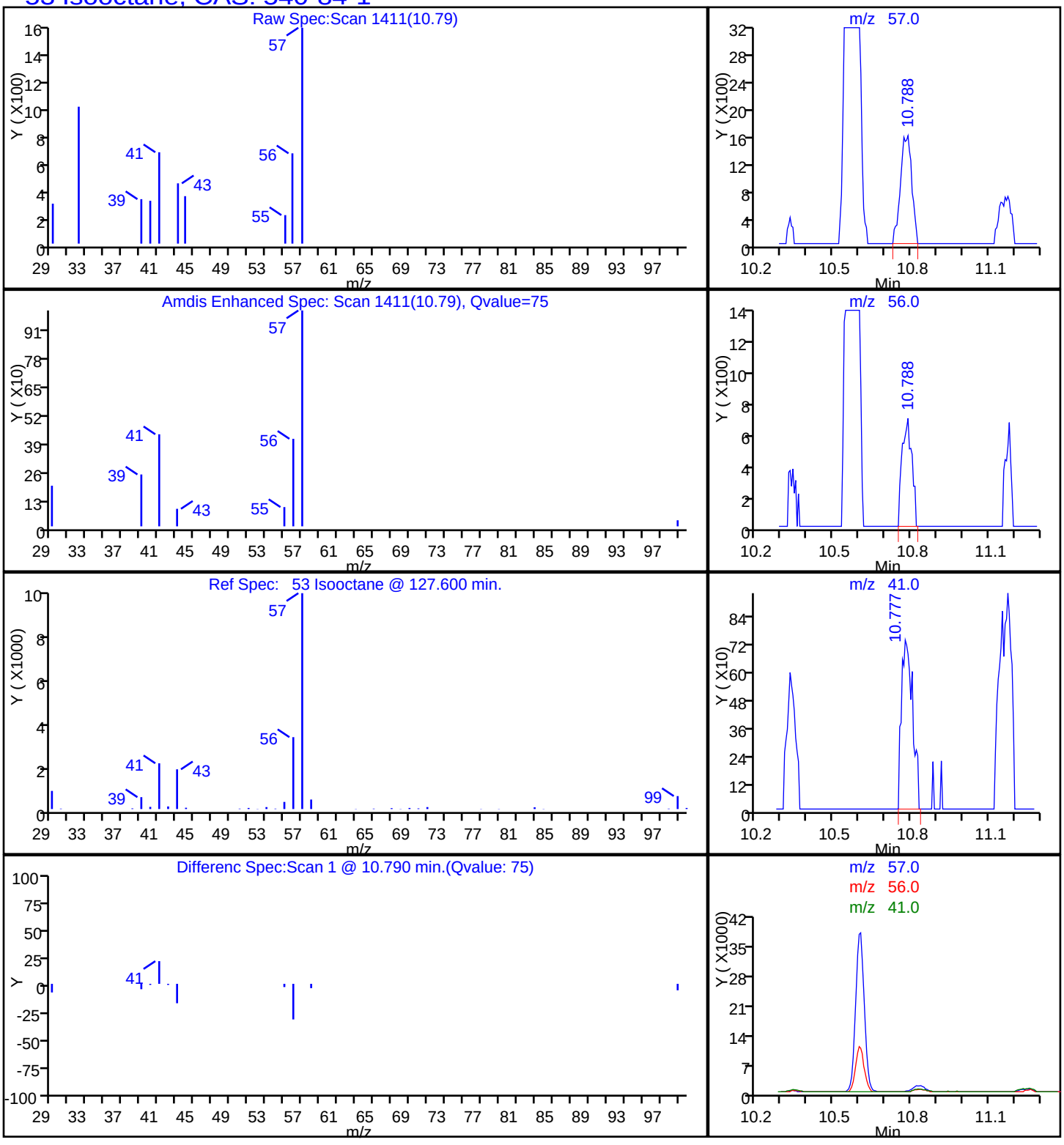


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D		
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1

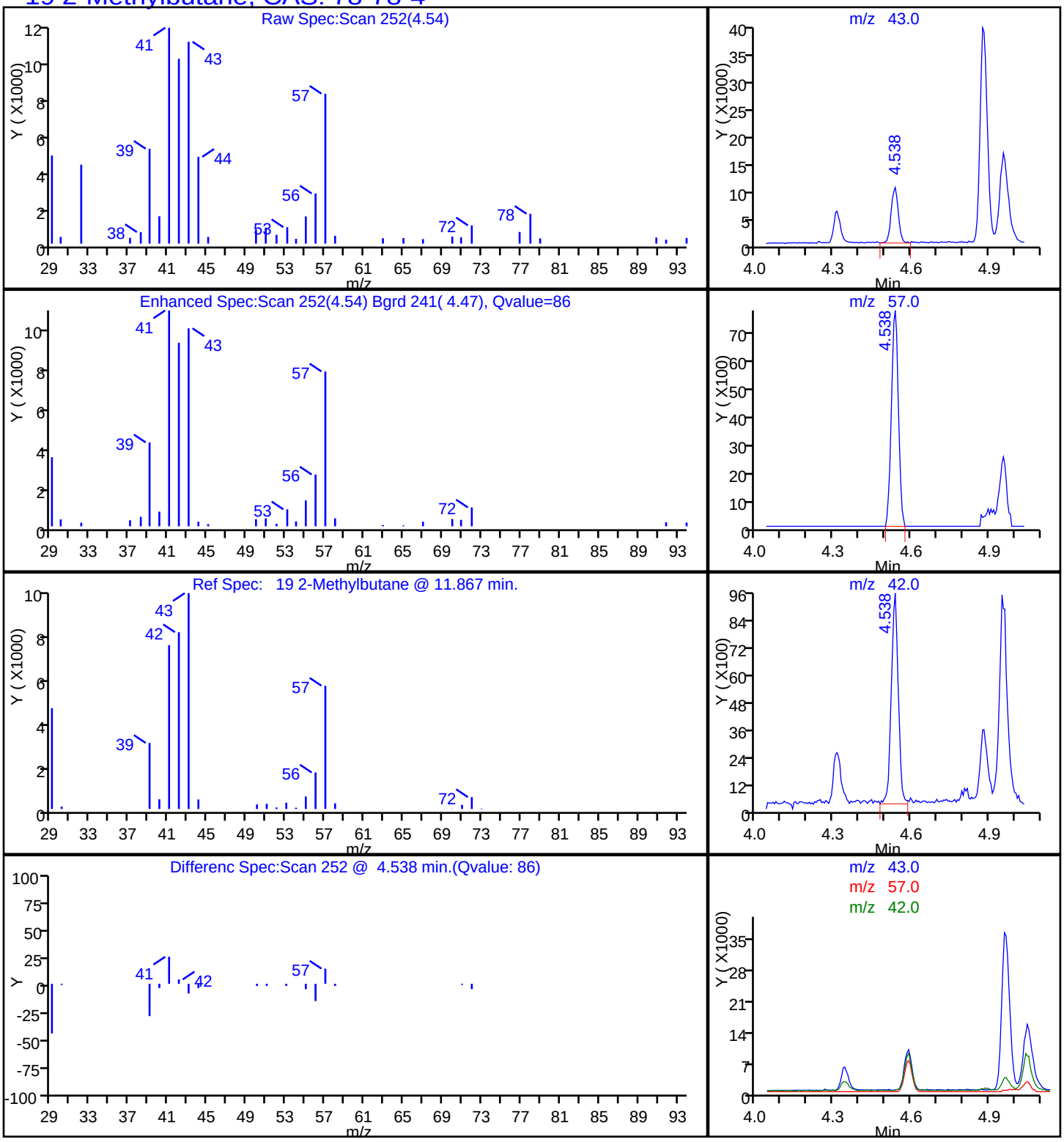


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4

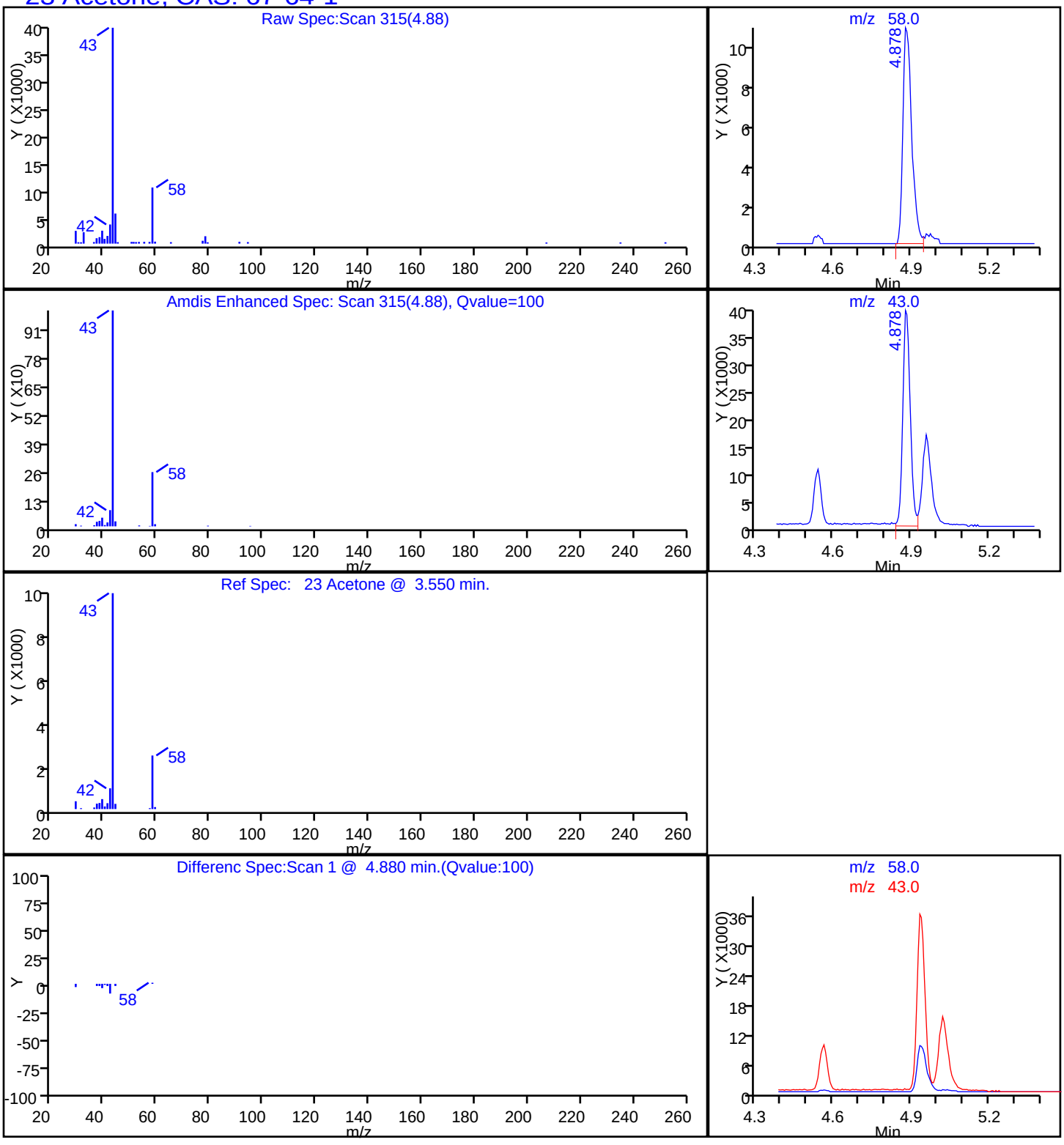


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D		
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

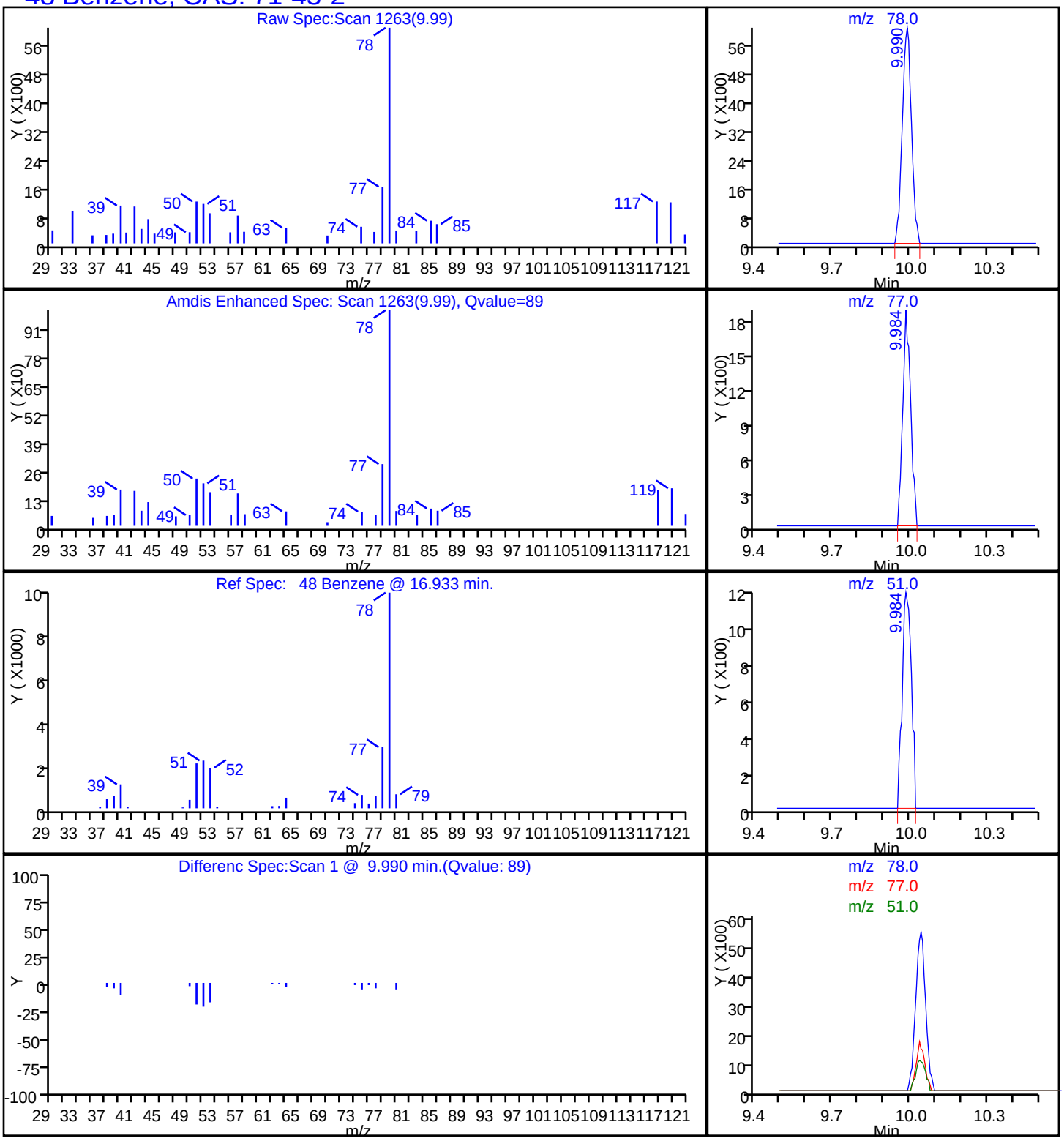
23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D		
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
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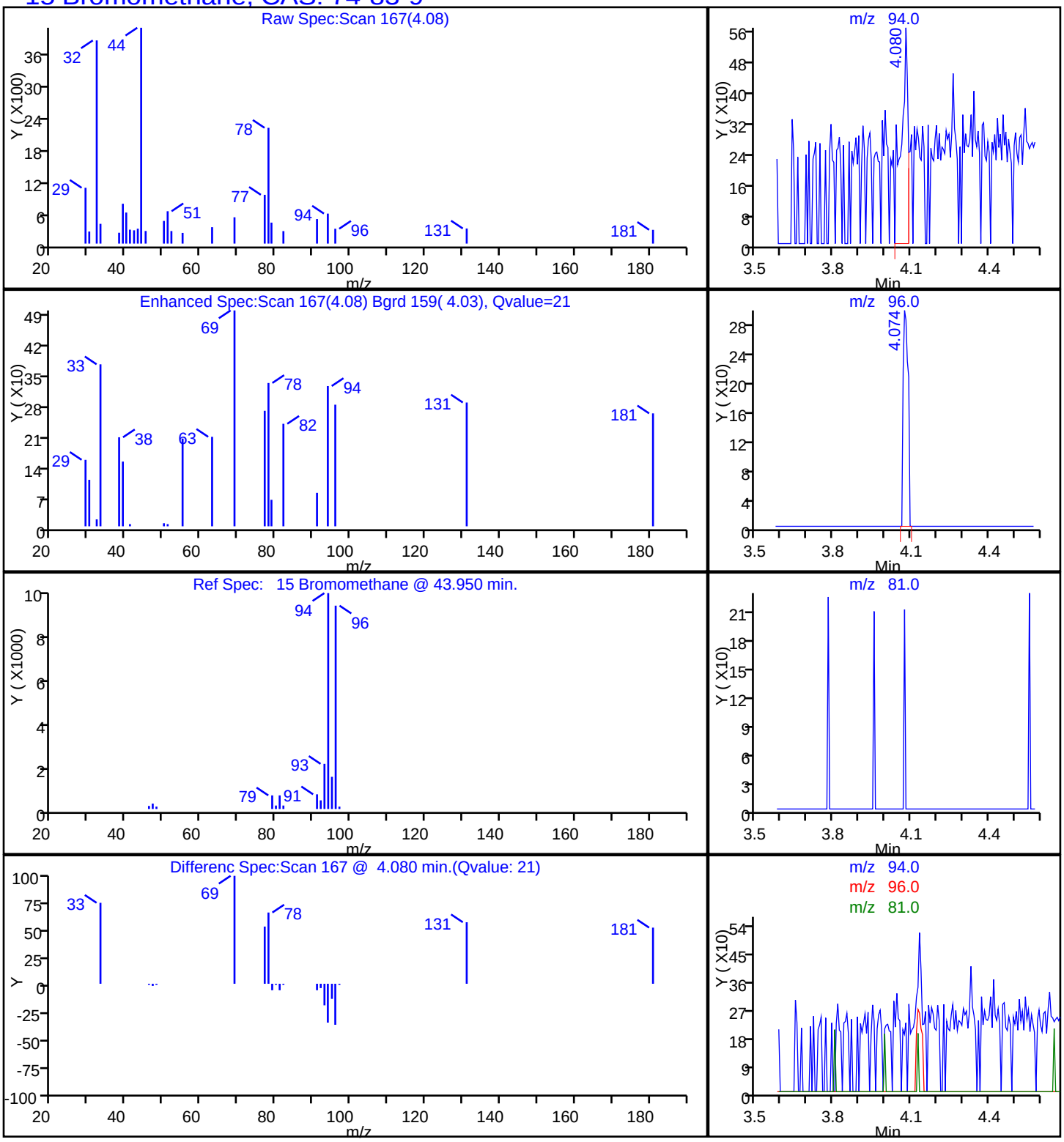
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9

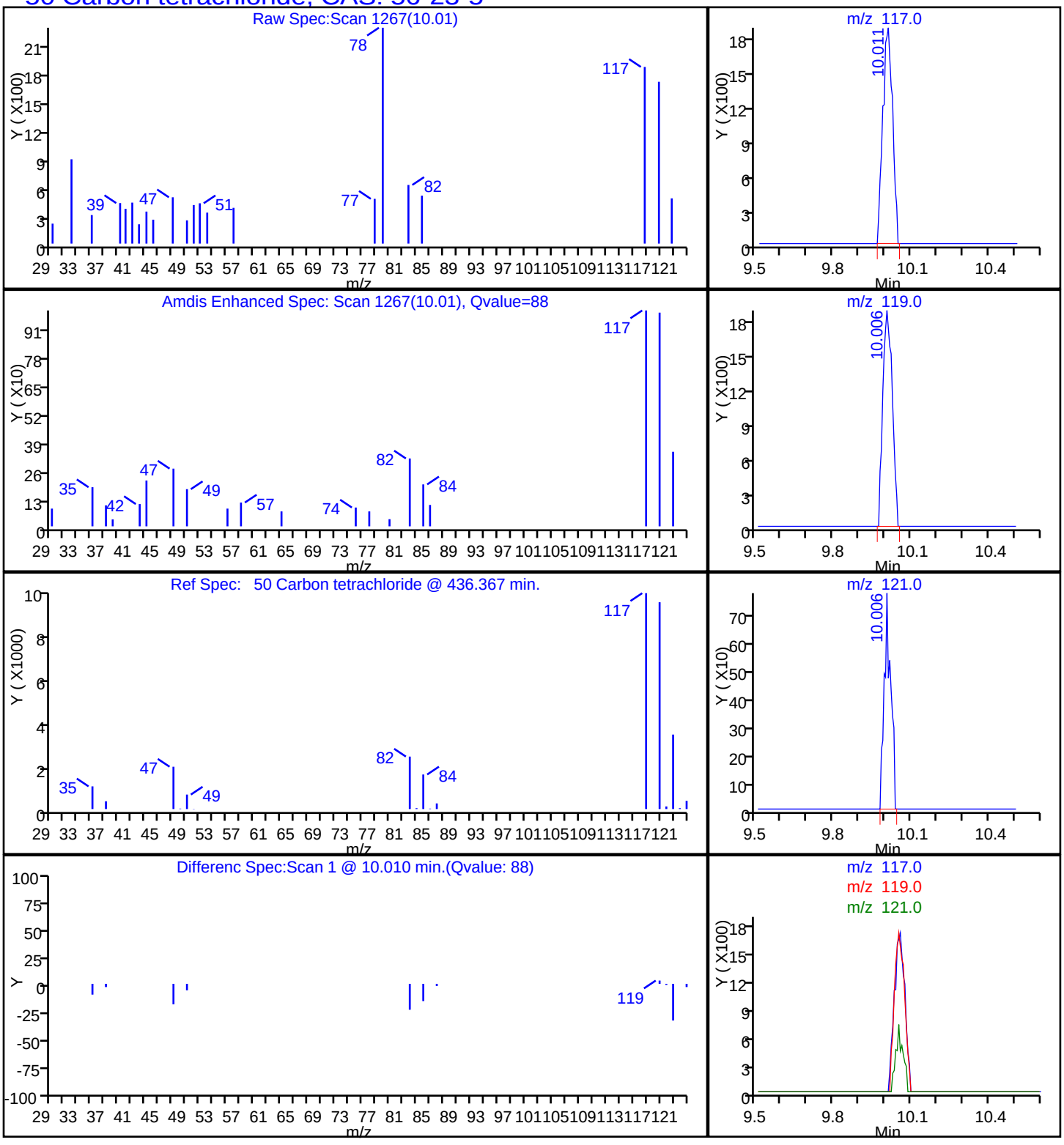


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



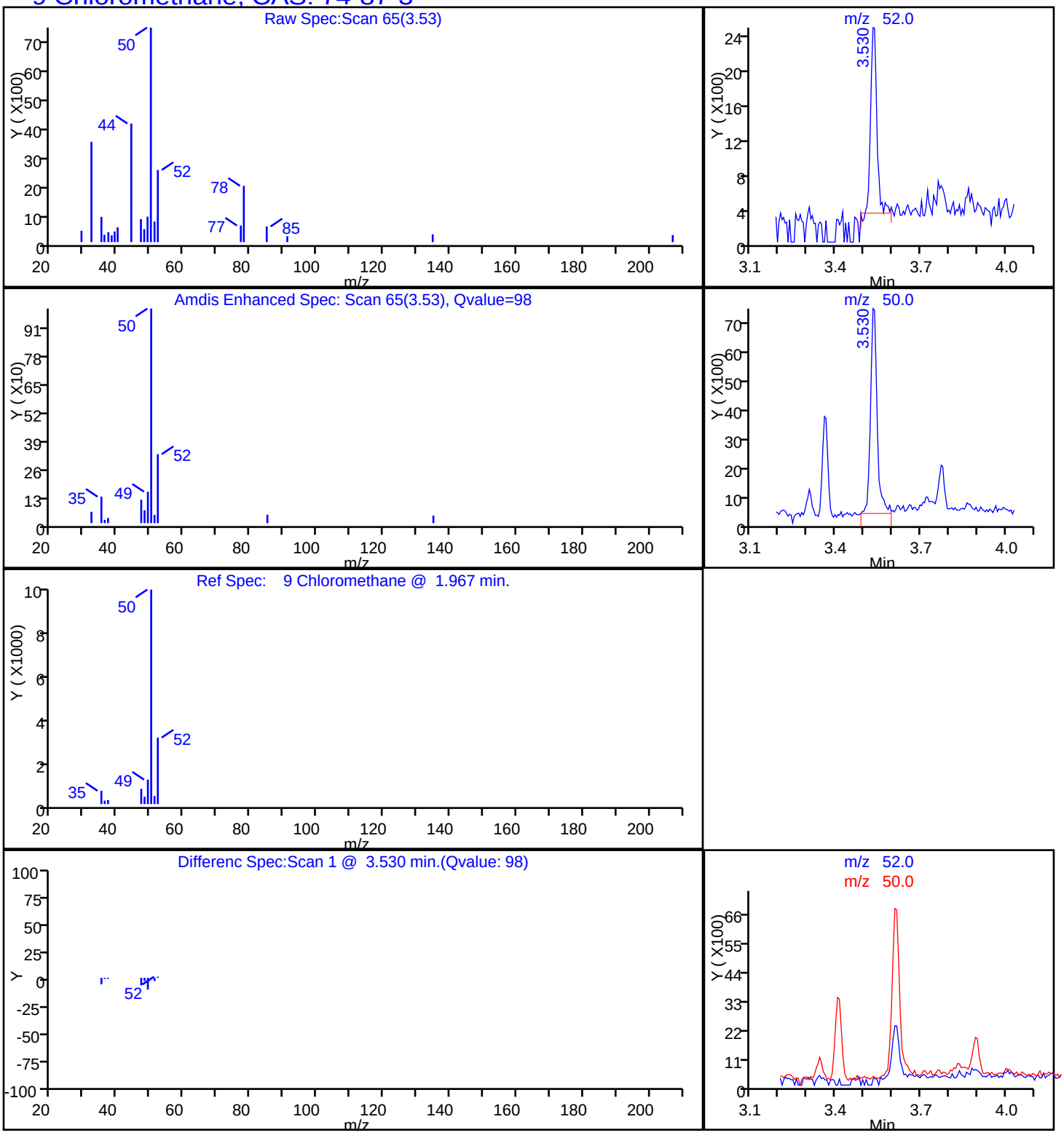
Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D

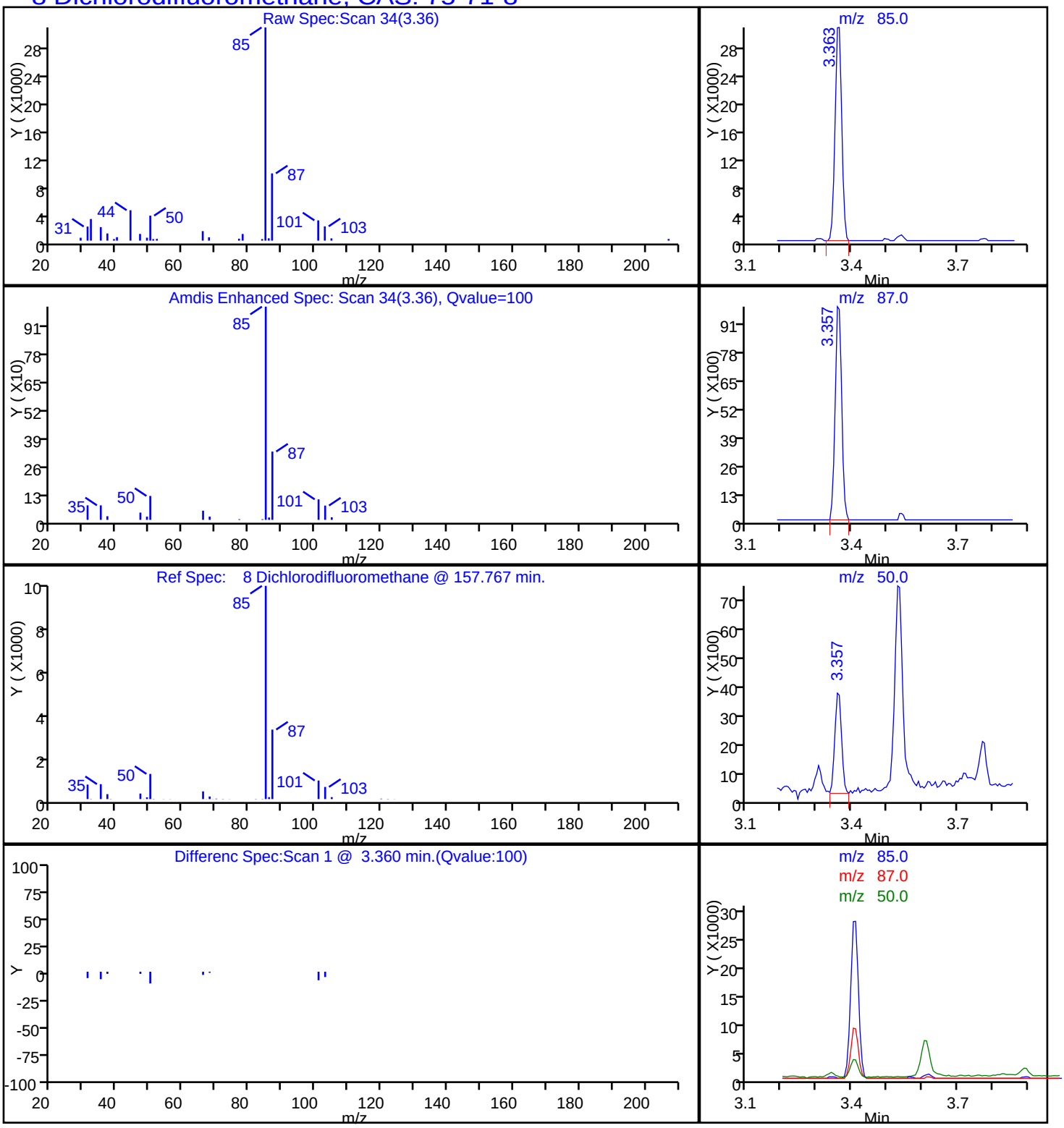
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D
Injection Date: 15-Mar-2014 08:05:30 Instrument ID: ME
Lims ID: 140-1054-A-4 Lab Sample ID: 140-1054-4
Client ID: PCV-IA1-B19
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 27
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



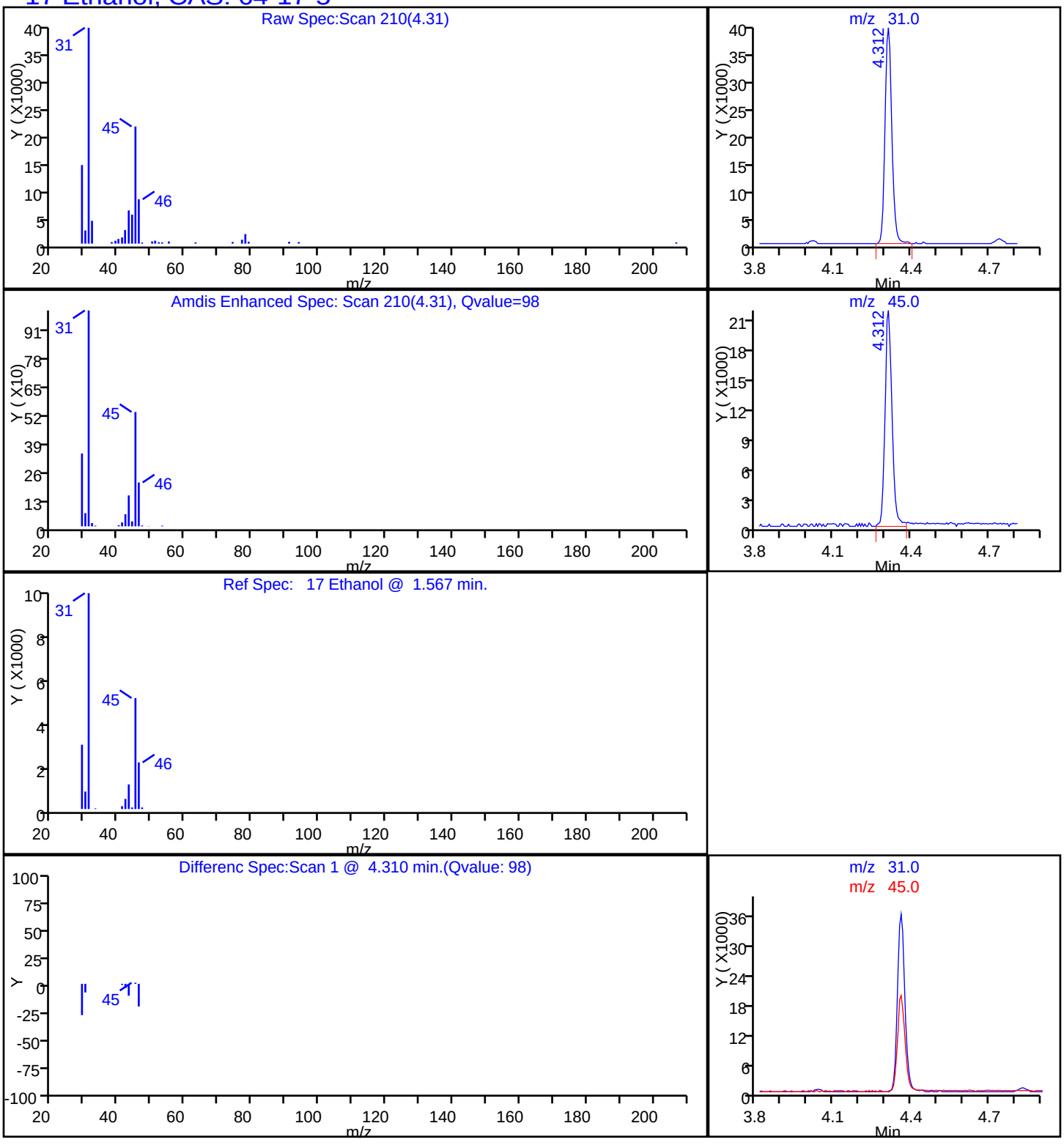
Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D

Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



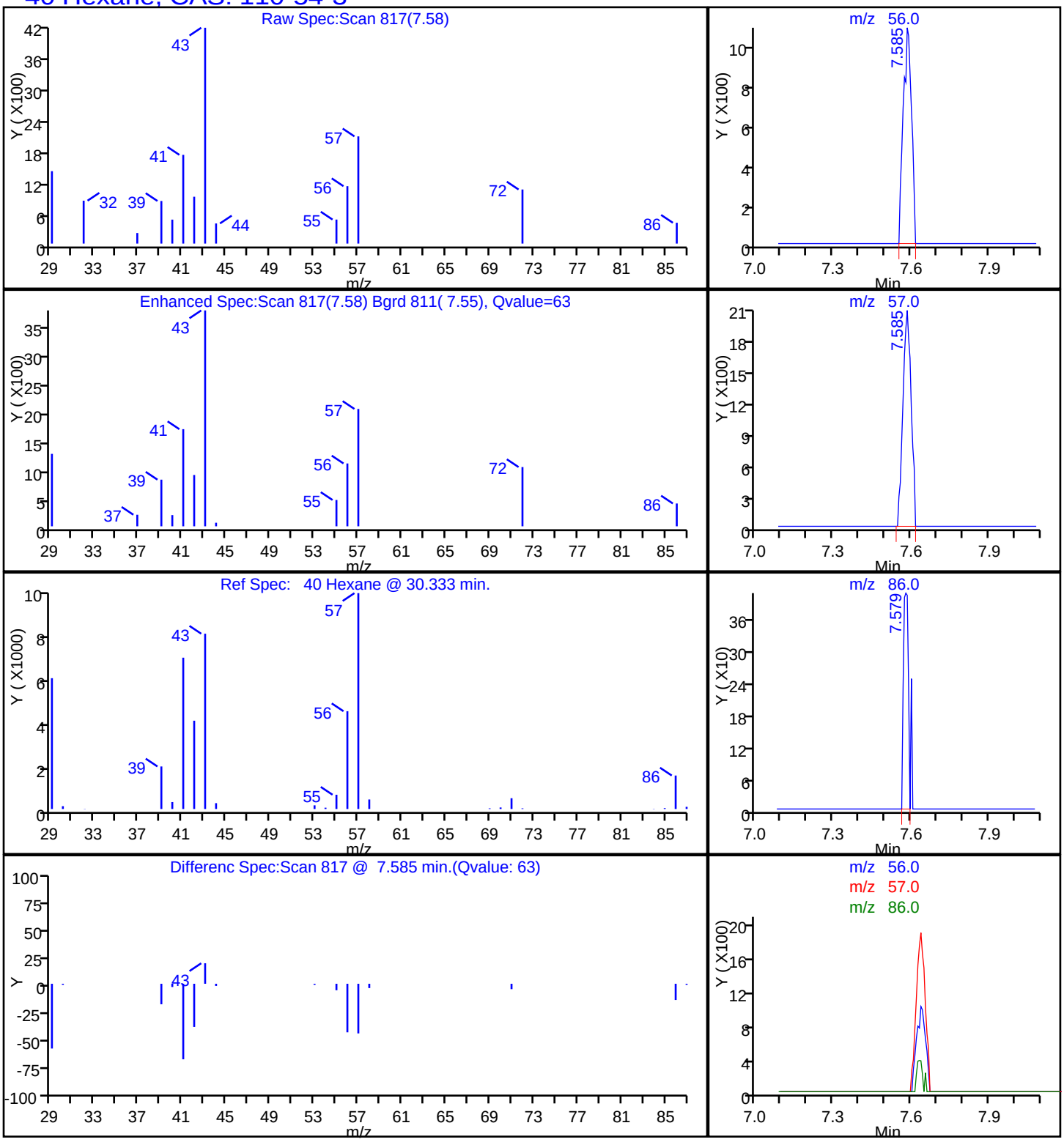
Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D

Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3

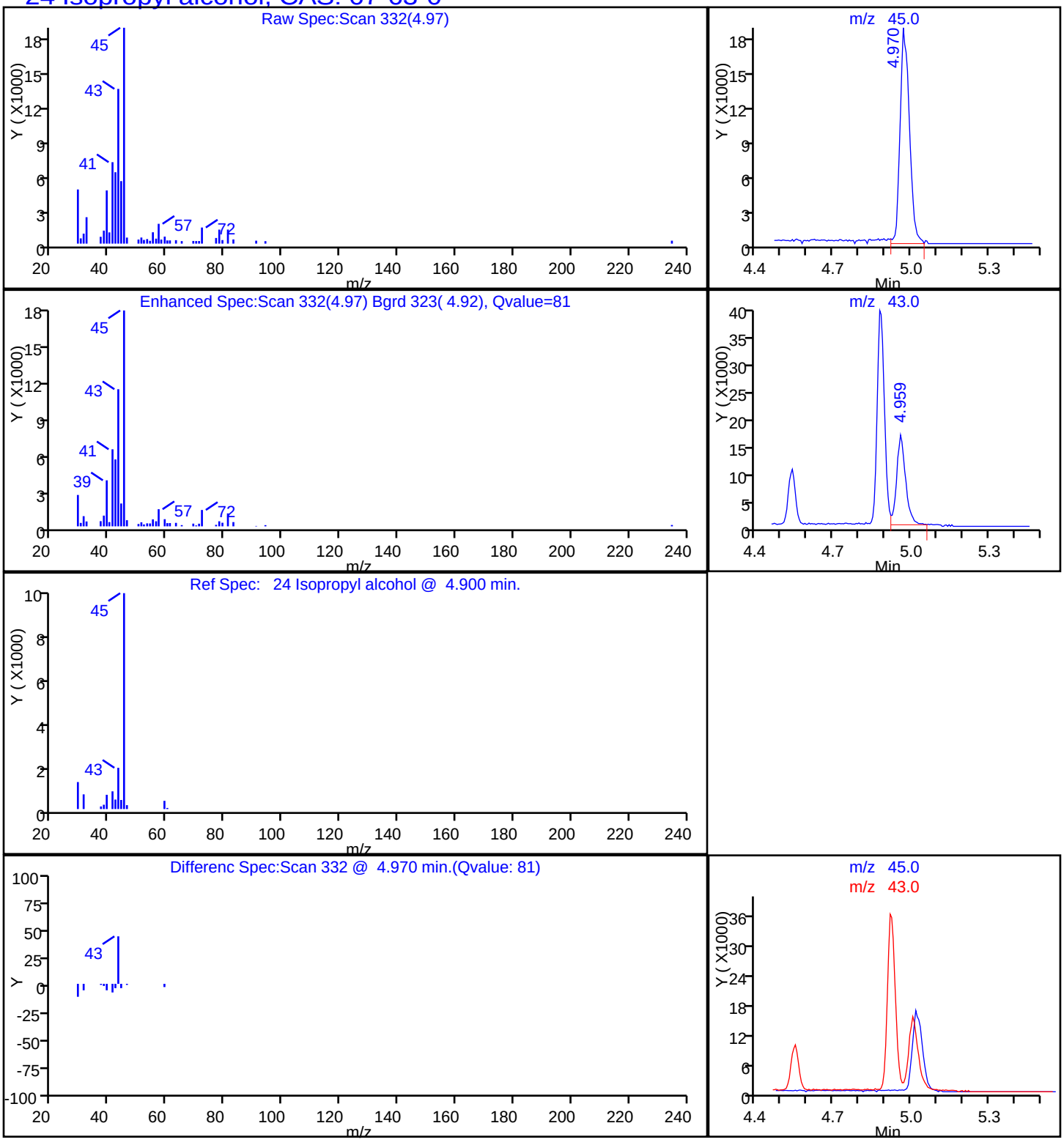


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



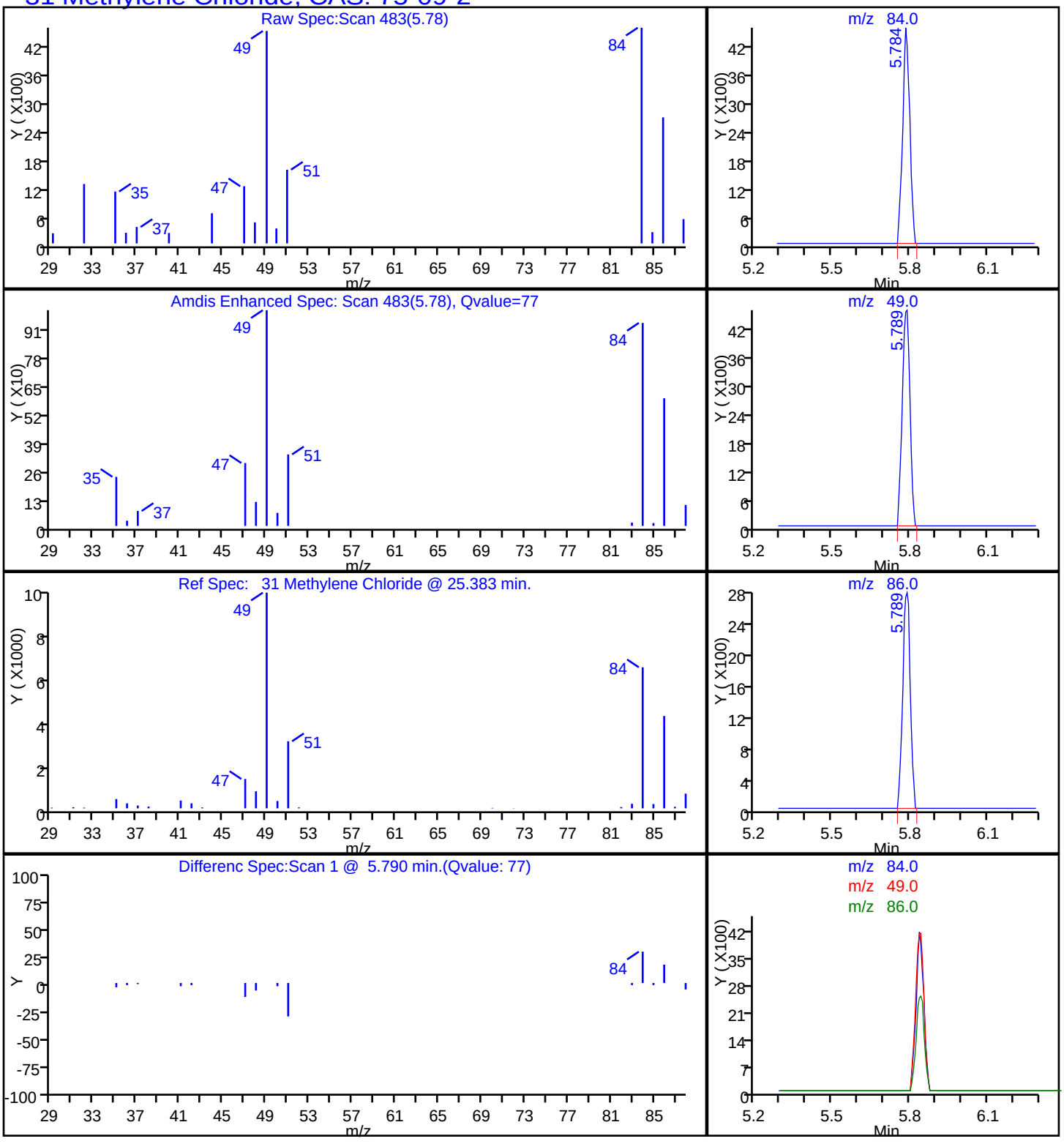
Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D

Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



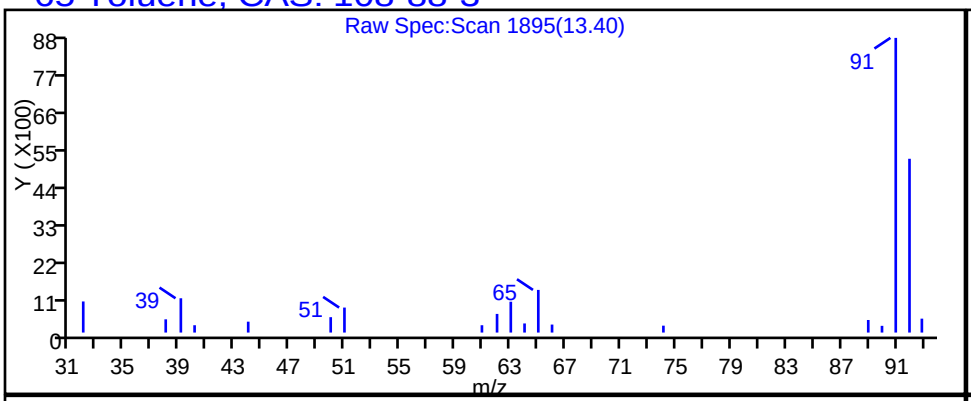
Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

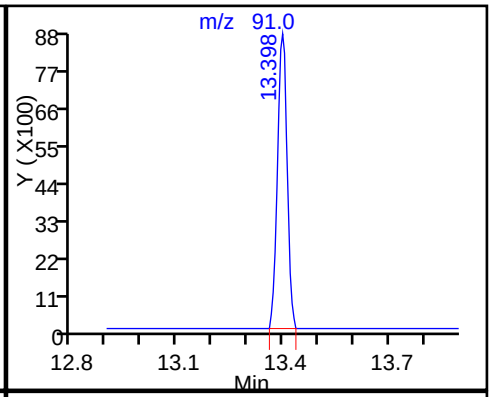
TestAmerica Knoxville

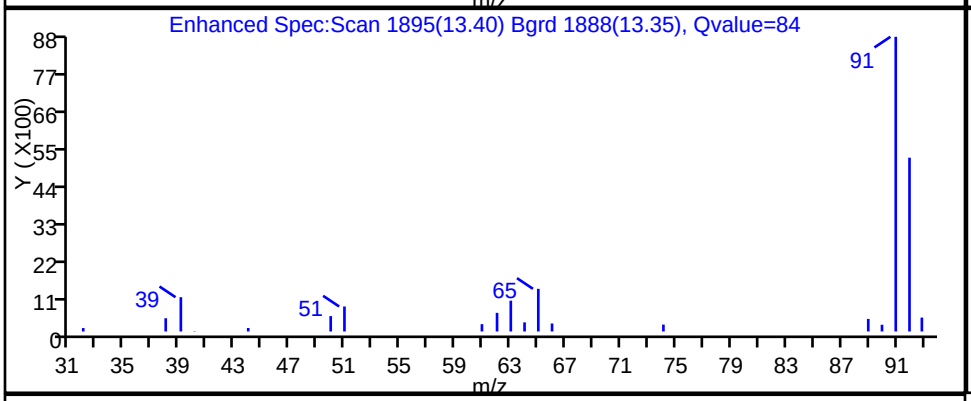
Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D

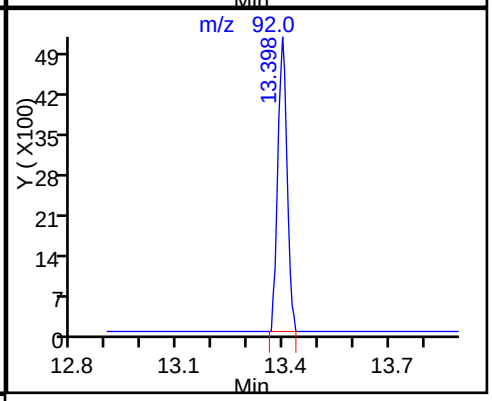
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4
Client ID:	PCV-IA1-B19		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

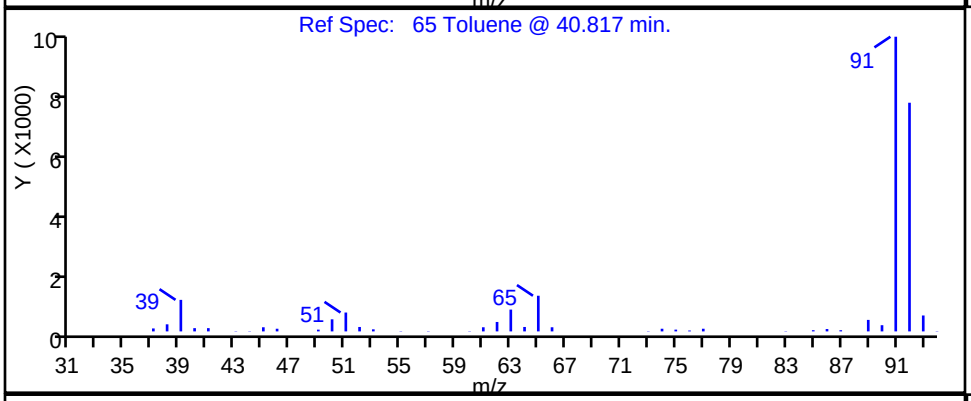
65 Toluene, CAS: 108-88-3

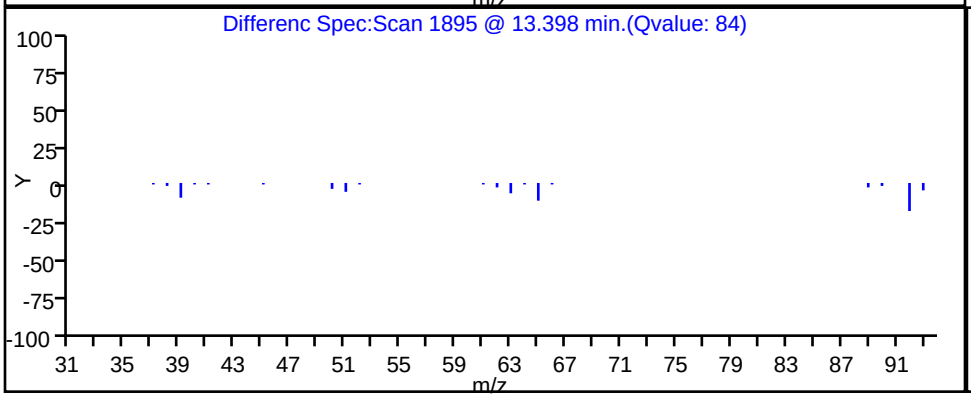


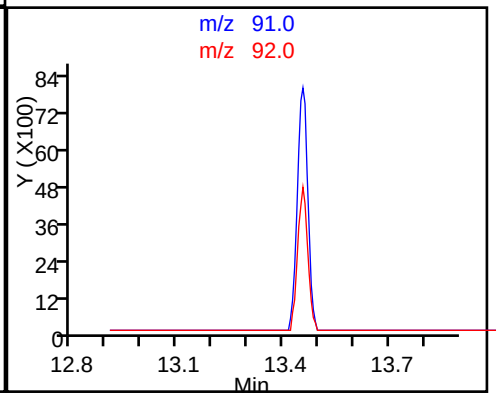










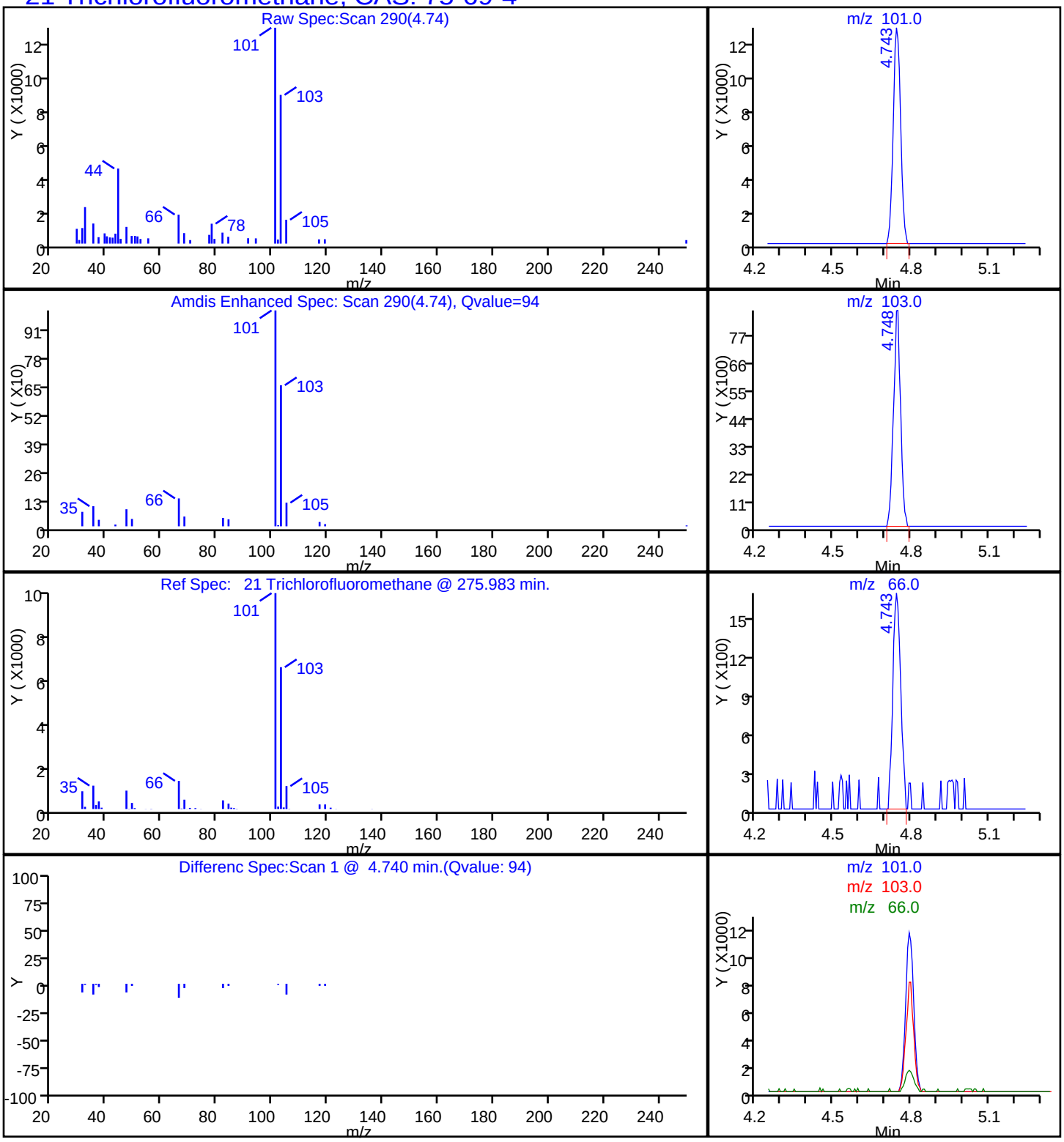


Report Date: 17-Mar-2014 16:39:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EC14P205.D				
Injection Date:	15-Mar-2014 08:05:30	Instrument ID:	ME		
Lims ID:	140-1054-A-4	Lab Sample ID:	140-1054-4		
Client ID:	PCV-IA1-B19				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	27
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.048	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.25	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.94		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.72		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.55		0.20	0.068
64-17-5	Ethanol	46.07	21		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.056	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.26	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.19	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.070	J	0.20	0.061
115-07-1	Propene	42.08	1.5	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.042	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.23		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.75	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	7.8	J	12	3.3
71-43-2	Benzene	78.11	0.77		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.7		0.99	0.34
64-17-5	Ethanol	46.07	39		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.92	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.80	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.31	J	0.87	0.26
115-07-1	Propene	42.08	2.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.29	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.86		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA3-B19 Lab Sample ID: 140-1054-5

Matrix: Air Lab File ID: EC17POS107R.D

Analysis Method: TO-15 Date Collected: 03/10/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 09:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D
Lims ID: 140-1054-A-5 Lab Sample ID: 140-1054-5
Client ID: PCV-IA3-B19
Sample Type: Client
Inject. Date: 18-Mar-2014 09:06:30 ALS Bottle#: 7 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-5
Misc. Info.: E031714,TO155,,140-0000525-026
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:37:32 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: liul Date: 25-Mar-2014 14:37:32

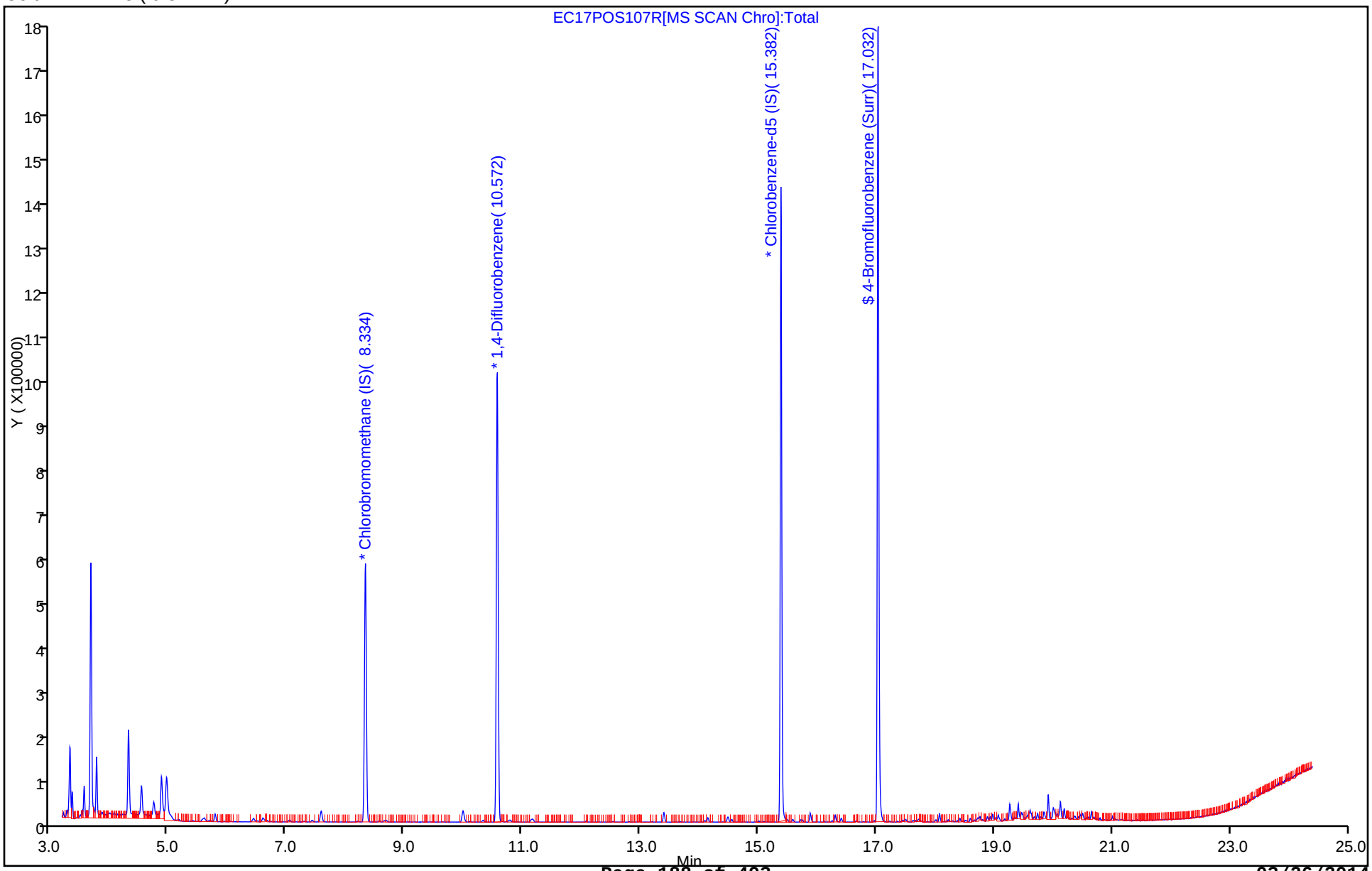
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	79	166198	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	770333	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	683106	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	83	607827	4.06	
7 Propene	41	3.319	3.309	0.010	60	25068	0.5996	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	96	40181	0.2185	
9 Chloromethane	52	3.530	3.530	0.0	98	4207	0.2867	
17 Ethanol	31	4.317	4.317	0.0	98	138101	8.31	
19 2-Methylbutane	43	4.533	4.538	-0.005	87	21956	0.3772	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	93	23631	0.1281	
23 Acetone	58	4.872	4.878	-0.006	92	32963	1.31	
24 Isopropyl alcohol	45	4.970	4.970	0.0	86	56302	0.8687	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.600	5.606	-0.006	63	3231	0.0283	
31 Methylene Chloride	84	5.784	5.789	-0.005	78	7626	0.1606	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	86	2764	0.1016	
40 Hexane	56	7.579	7.585	-0.006	73	4626	0.1046	
48 Benzene	78	9.984	9.995	-0.011	89	14923	0.0963	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	82	4799	0.0322	
53 Isooctane	57	10.783	10.783	0.0	70	4559	0.0190	
54 n-Heptane	71	11.171	11.182	-0.011	59	1309	0.0223	
65 Toluene	91	13.398	13.403	-0.005	82	16728	0.0914	
73 Tetrachloroethene	129	14.552	14.552	0.0	65	1321	0.0169	
78 m-Xylene & p-Xylene	91	15.878	15.889	-0.011	93	13671	0.0741	
82 o-Xylene	91	16.407	16.412	-0.005	62	5616	0.0282	

Report Date: 25-Mar-2014 14:37:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5	Worklist Smp#:	26
Client ID:	PCV-IA3-B19				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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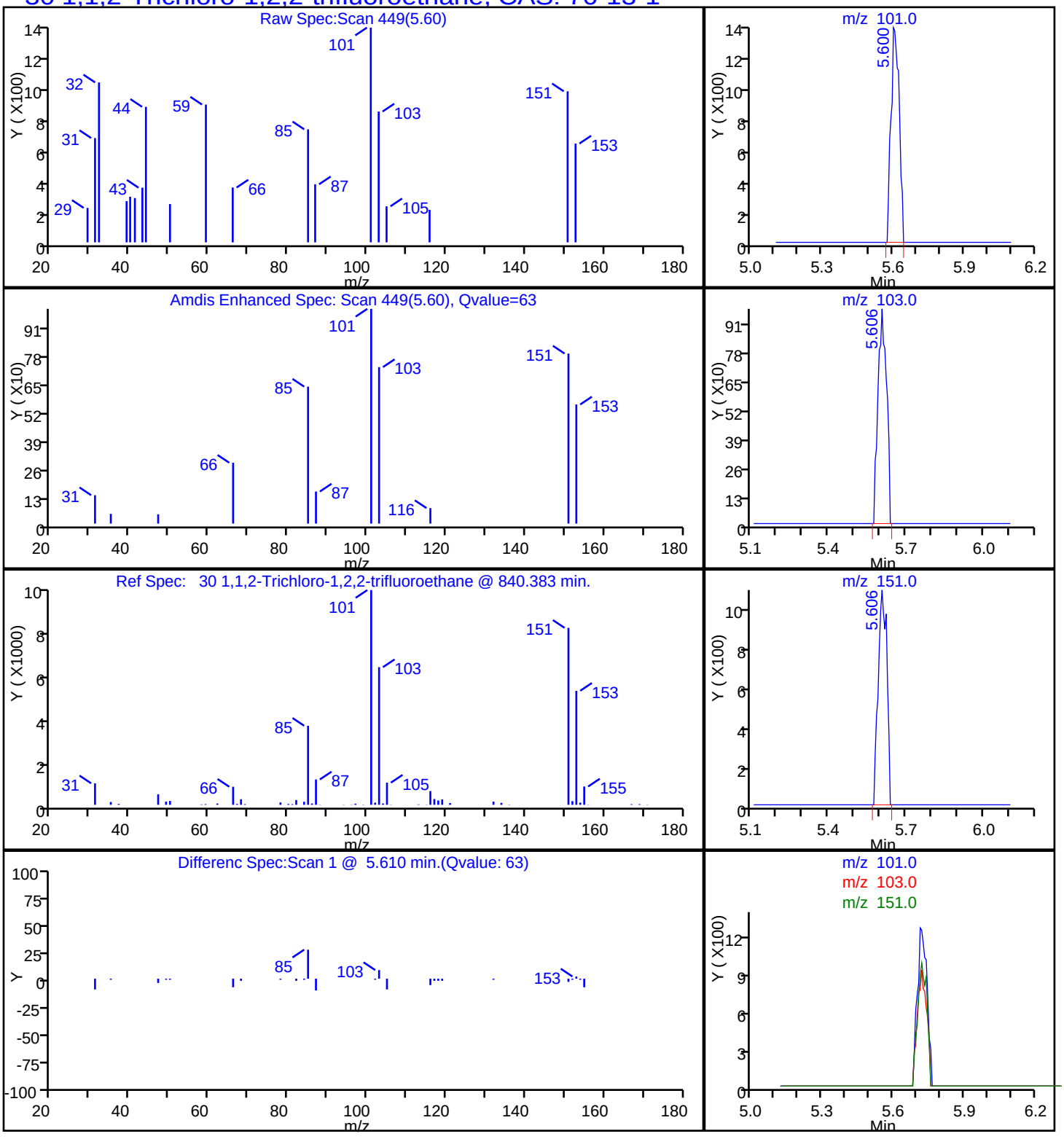
Injection Date: 18-Mar-2014 09:06:30 Instrument ID: ME
Lims ID: 140-1054-A-5 Lab Sample ID: 140-1054-5
Client ID: PCV-IA3-B19
Operator ID: 060487 ALS Bottle#: 7 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

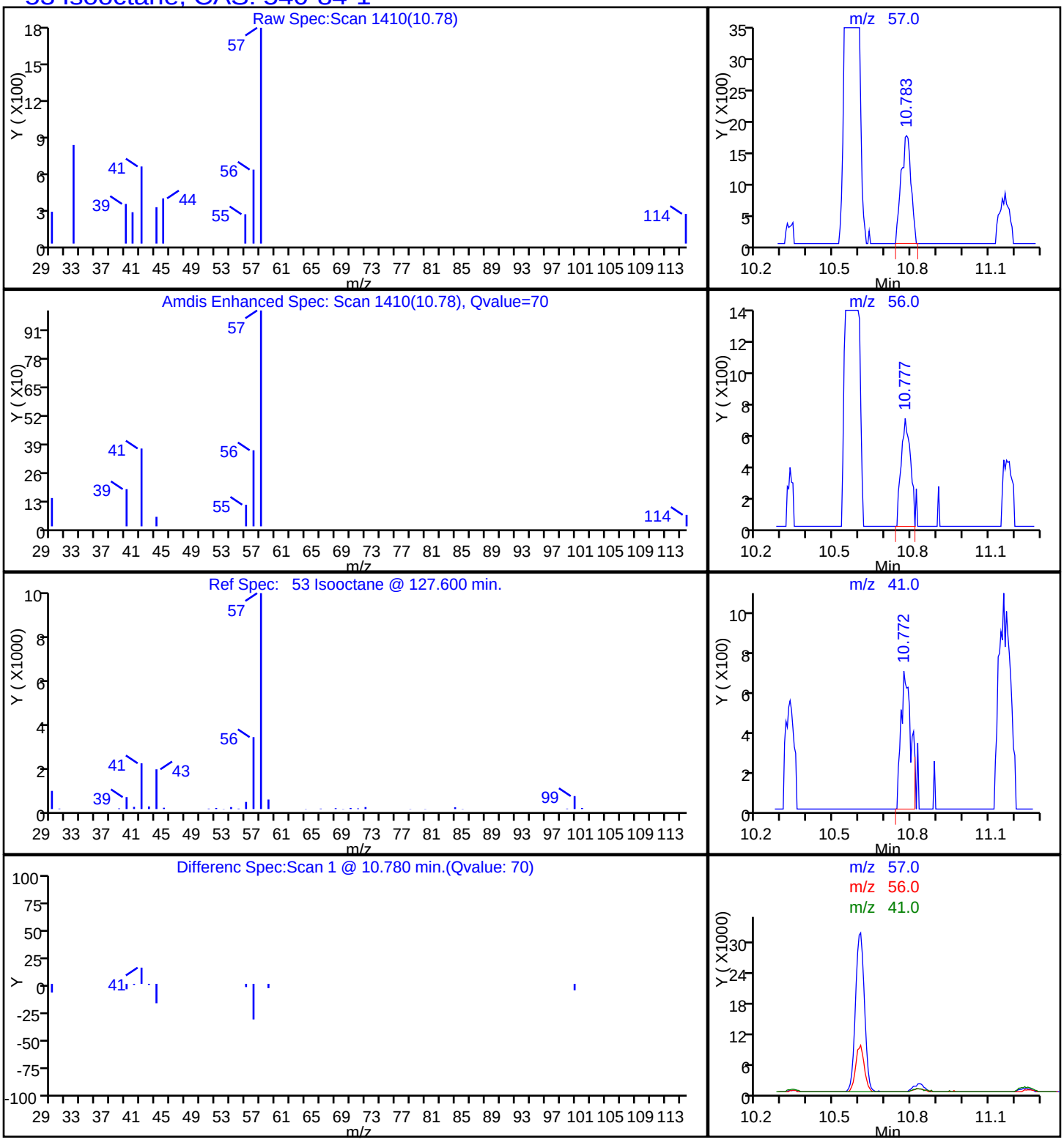


Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D		
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



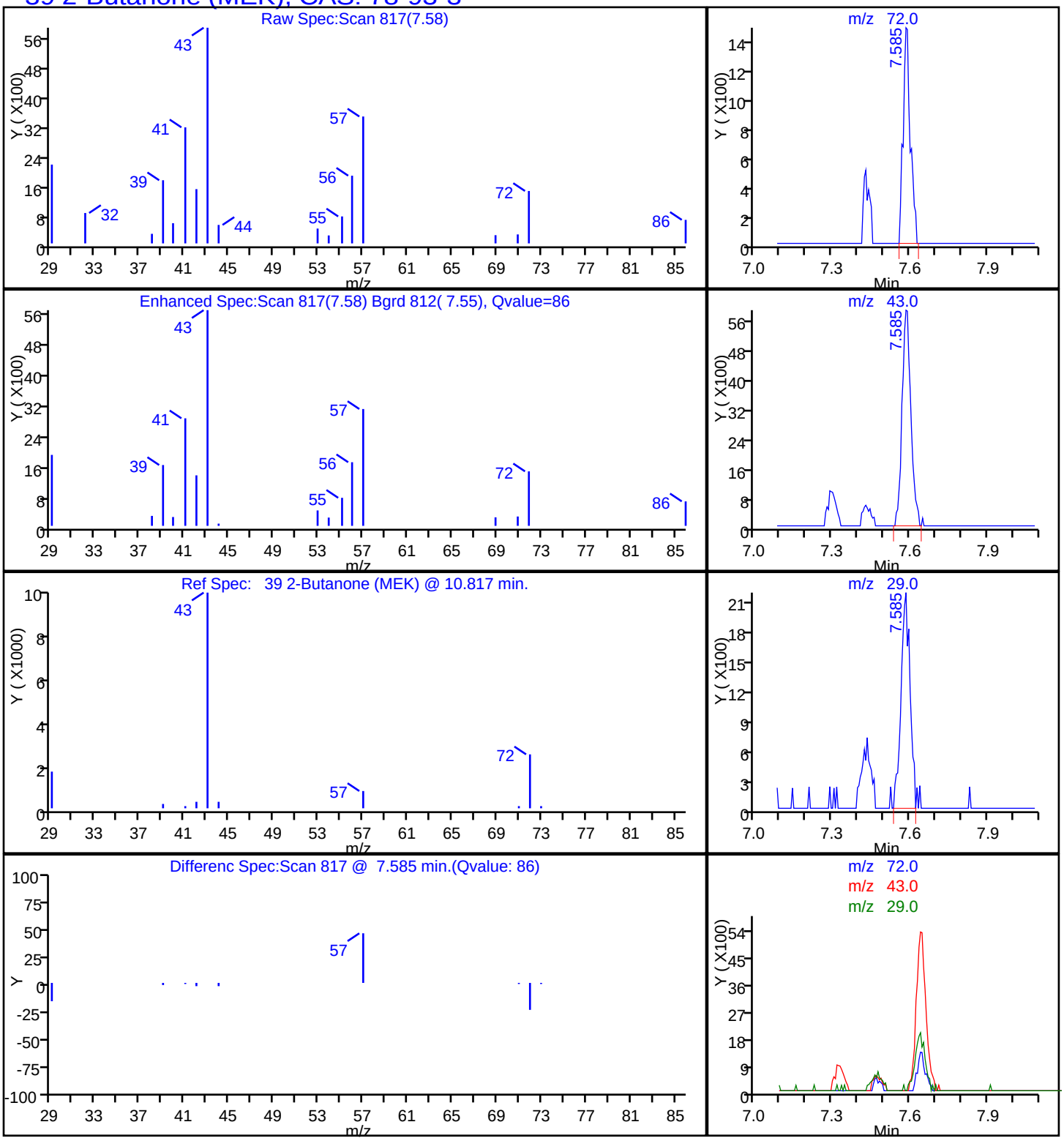
Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D

Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D		
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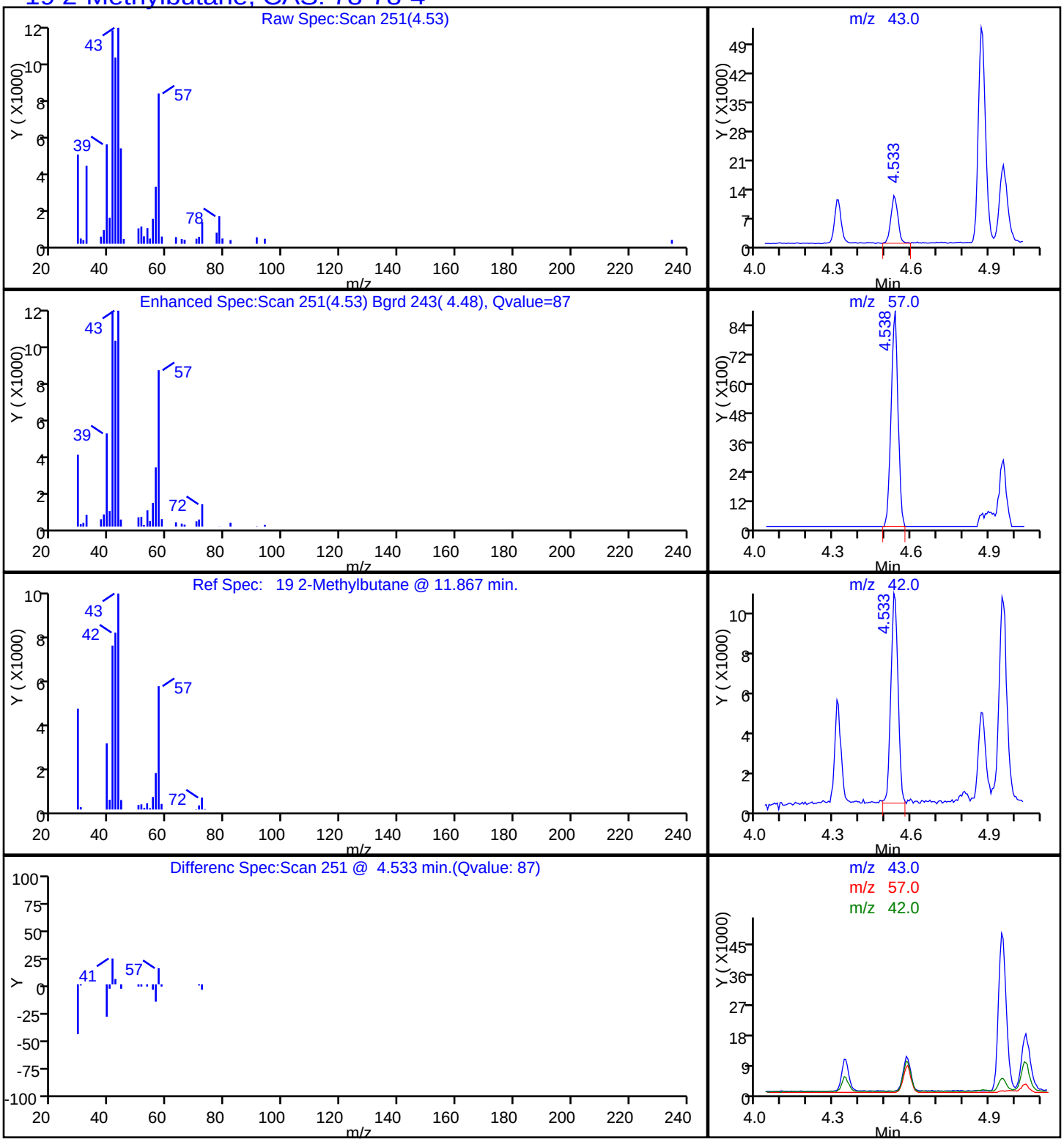
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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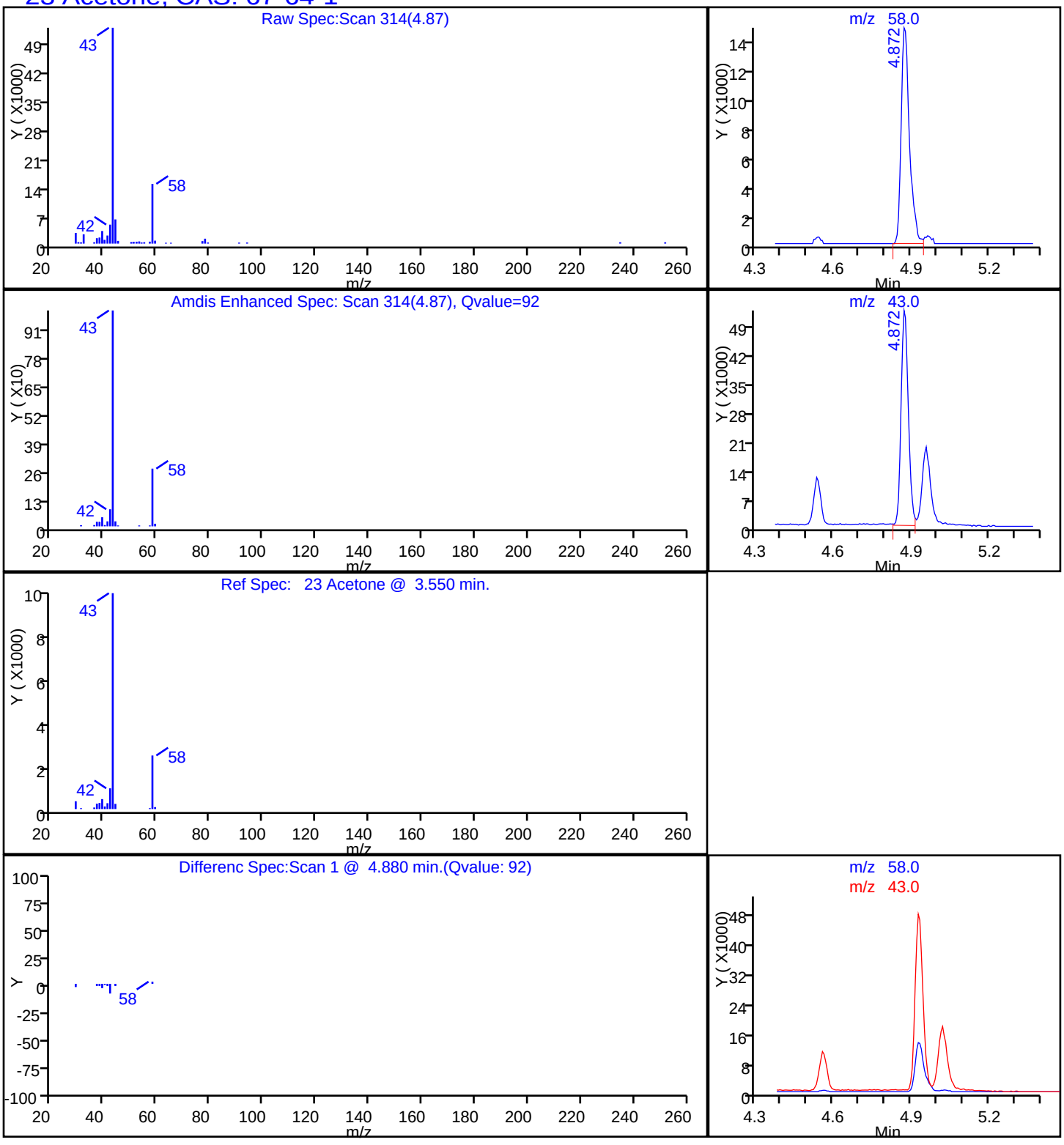
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D

Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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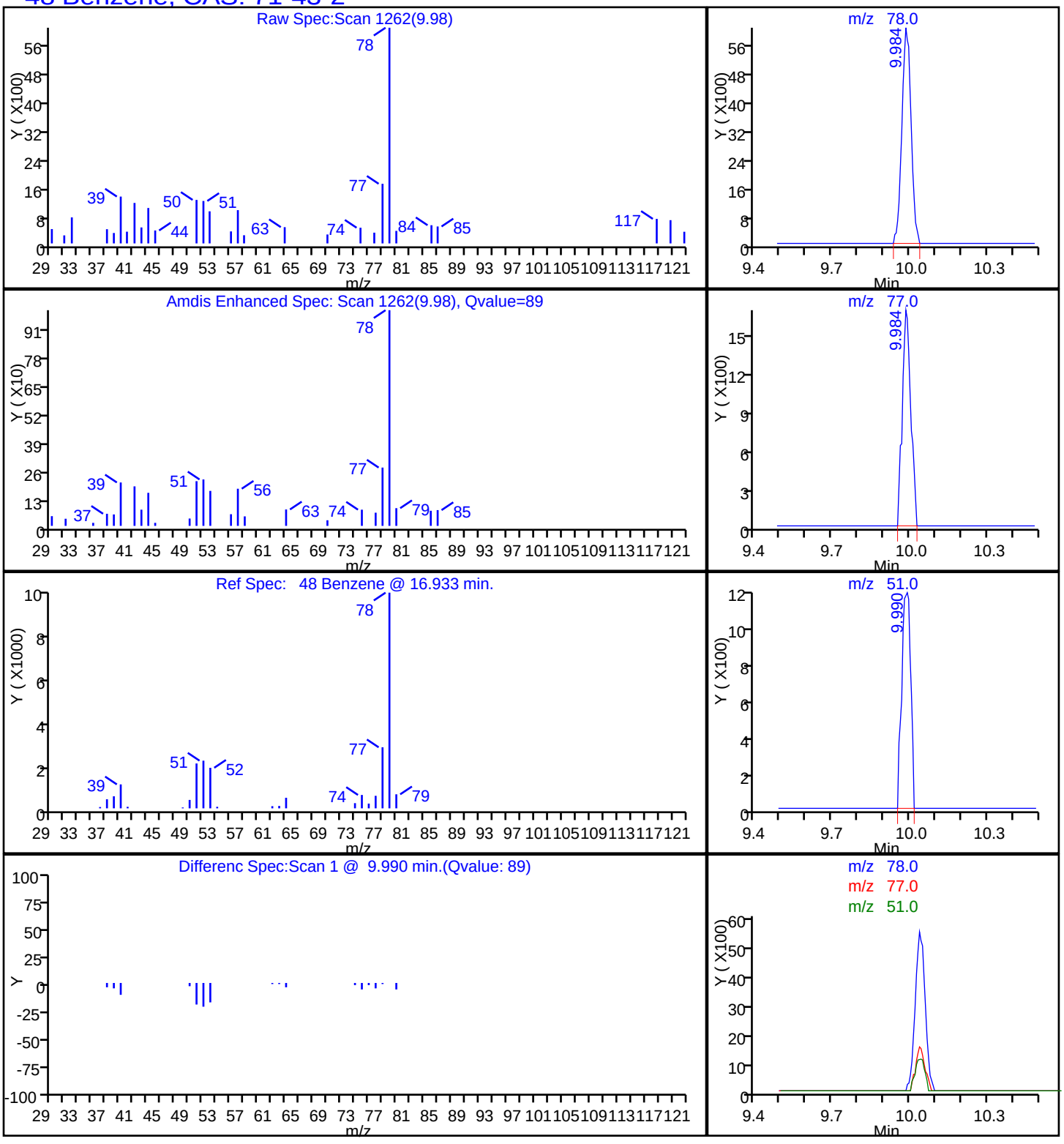
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



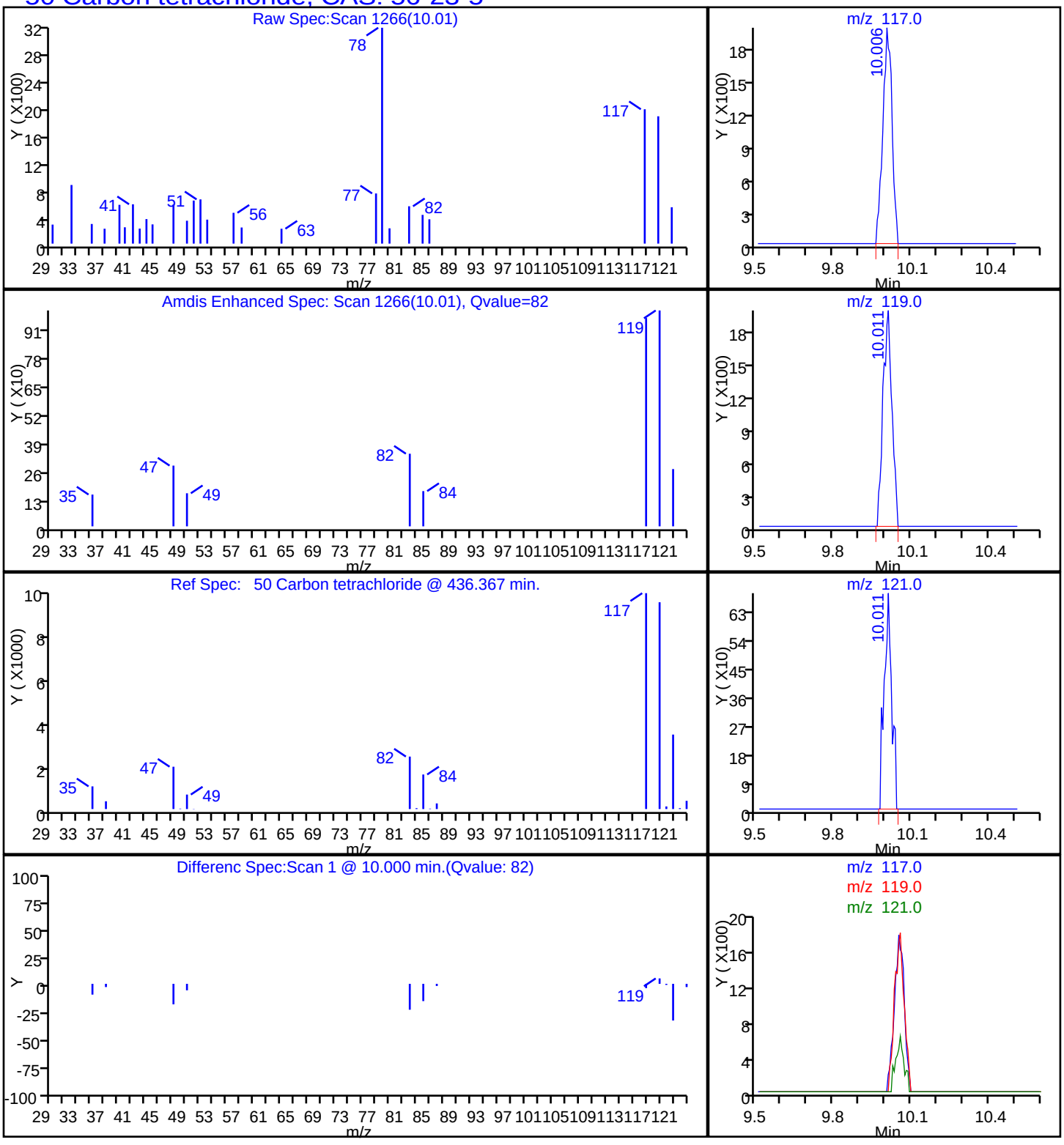
Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D

Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 25-Mar-2014 14:37:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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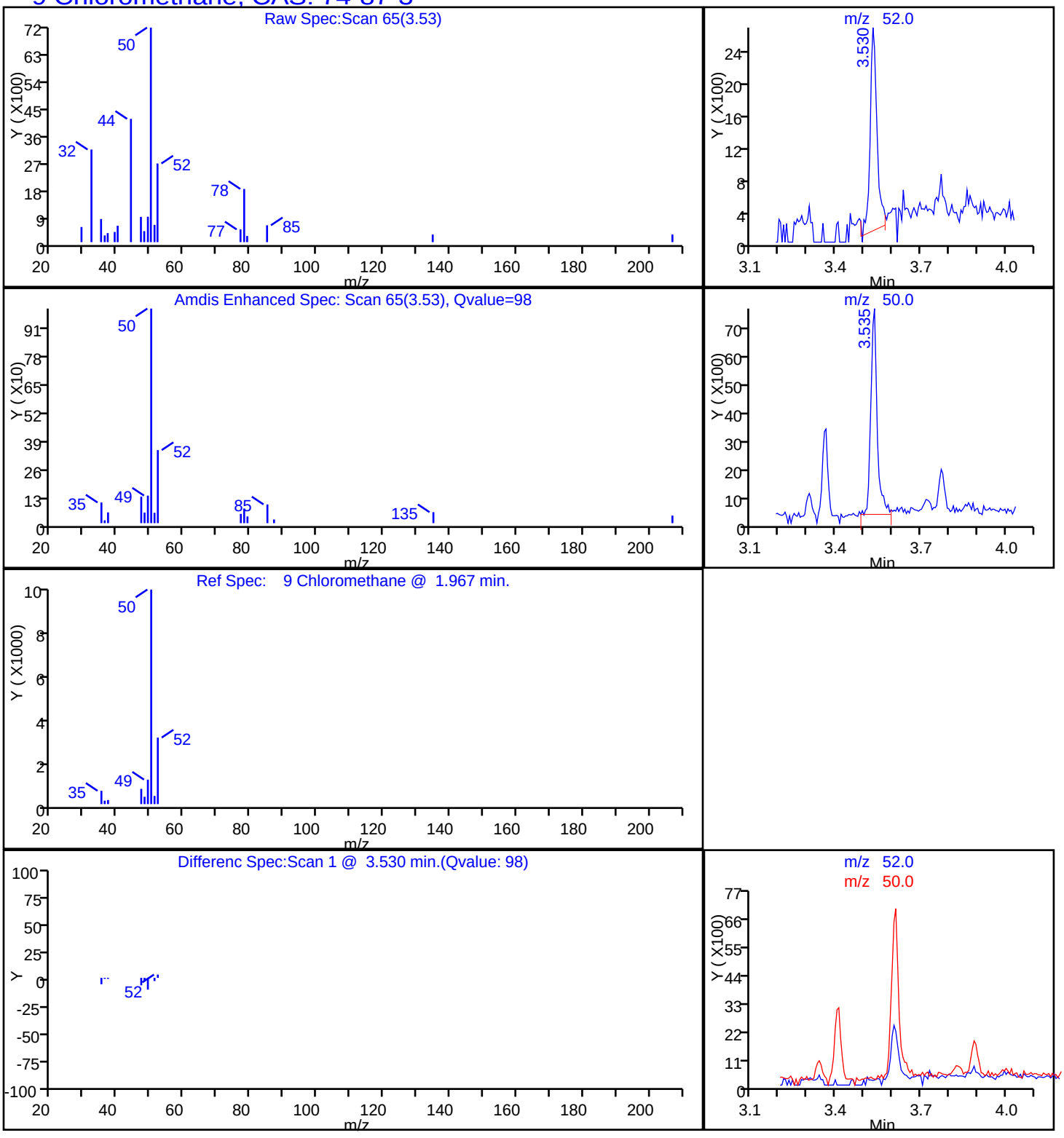
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

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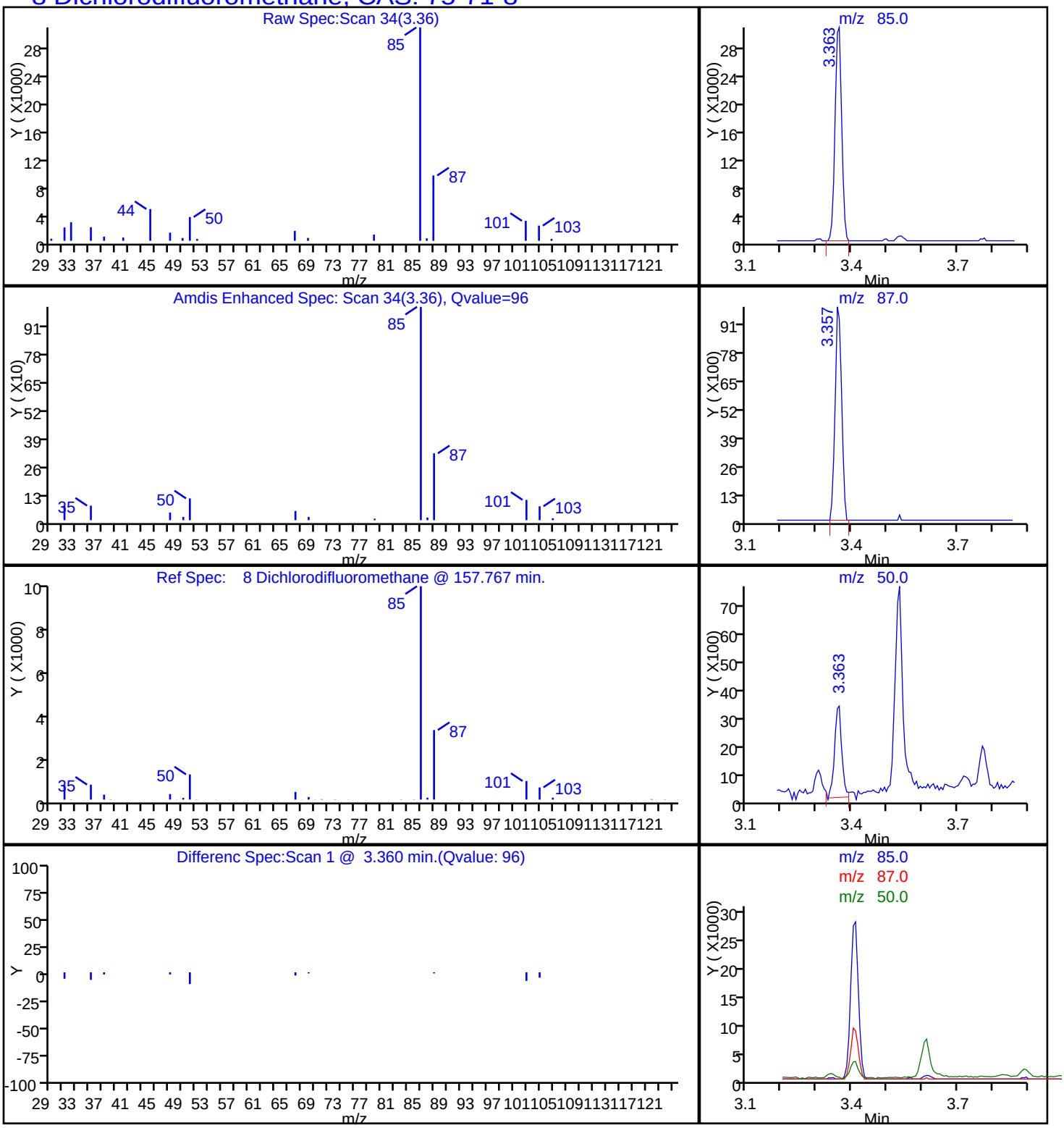
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 25-Mar-2014 14:37:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
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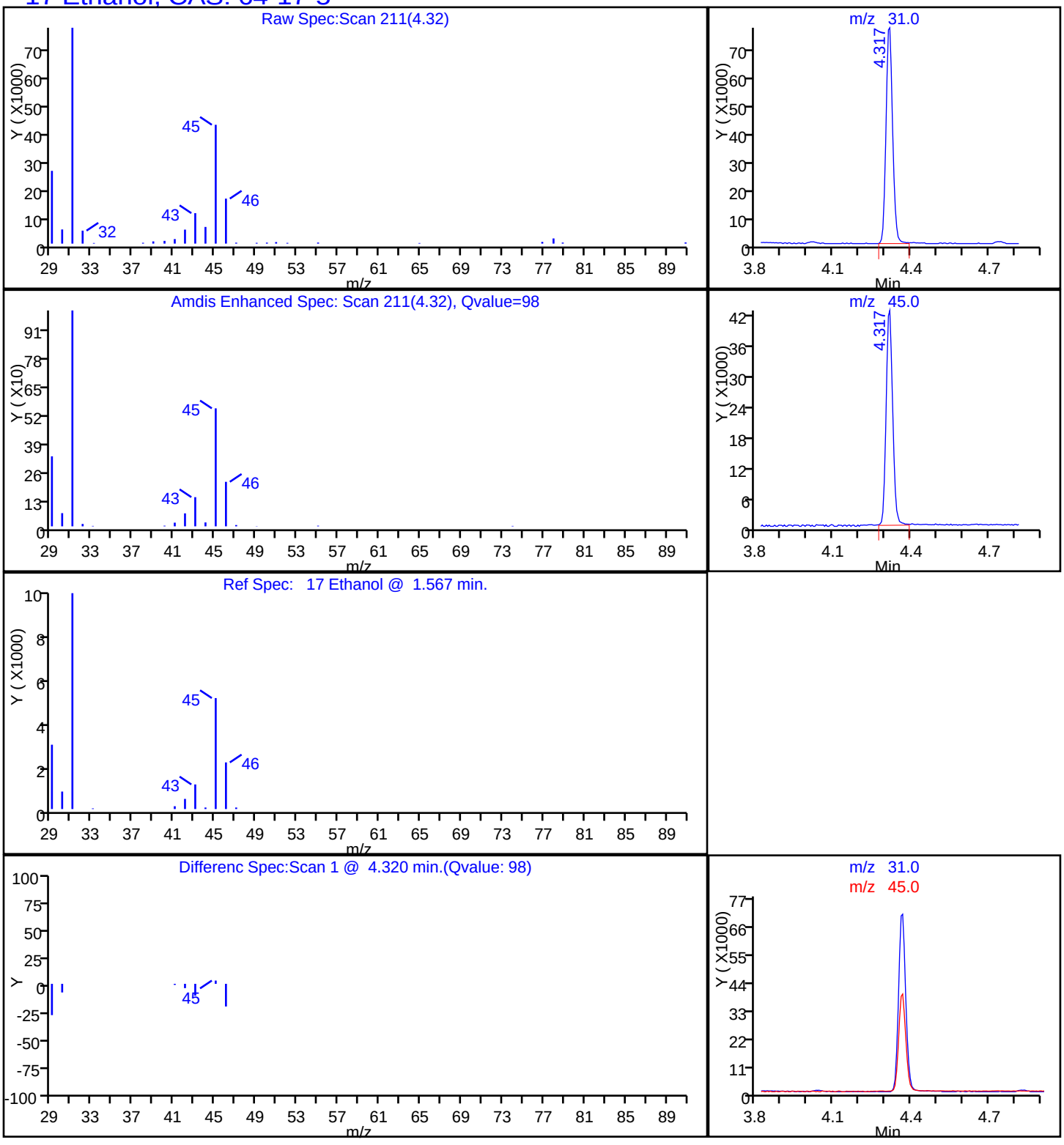
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



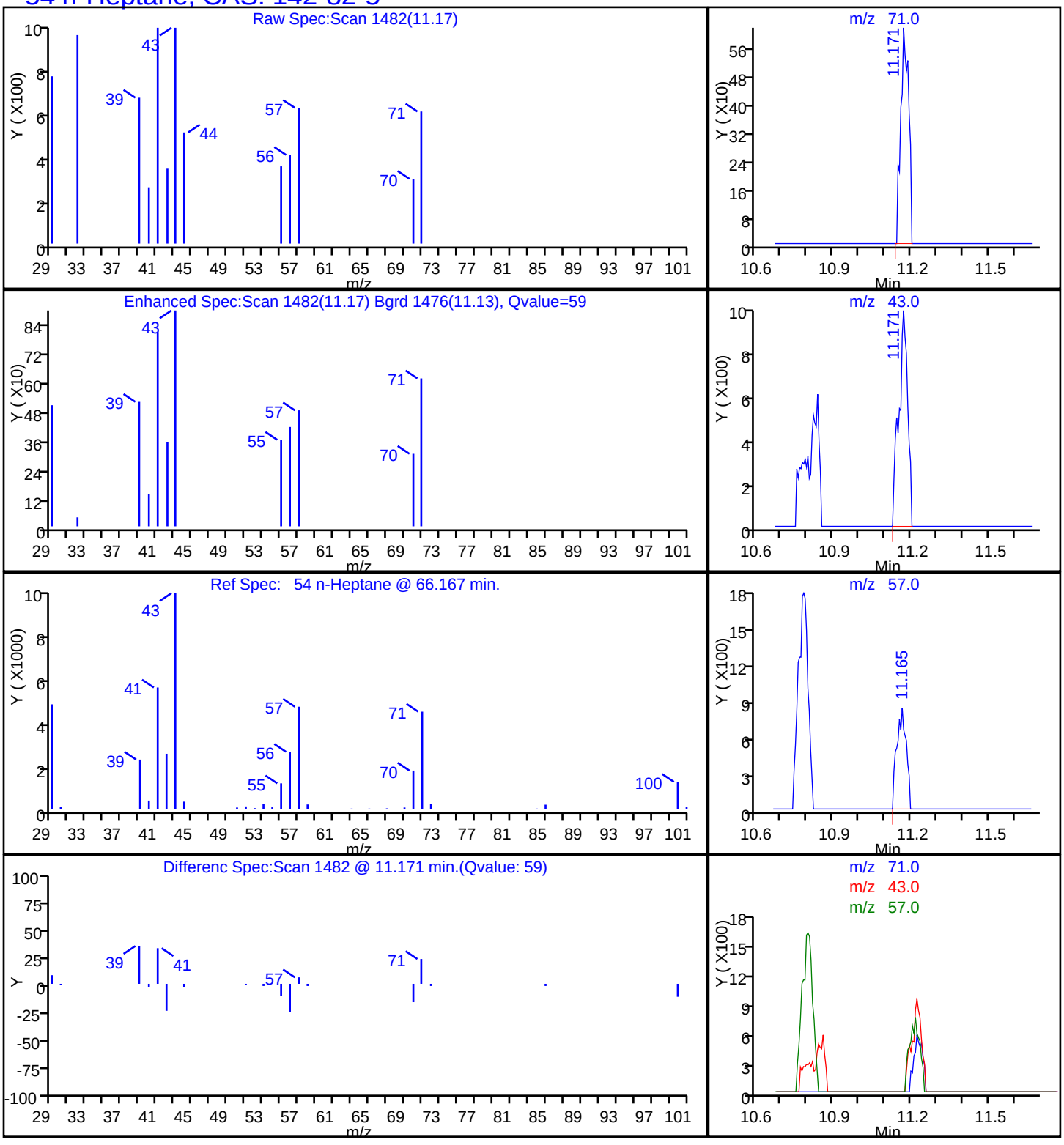
Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D

Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

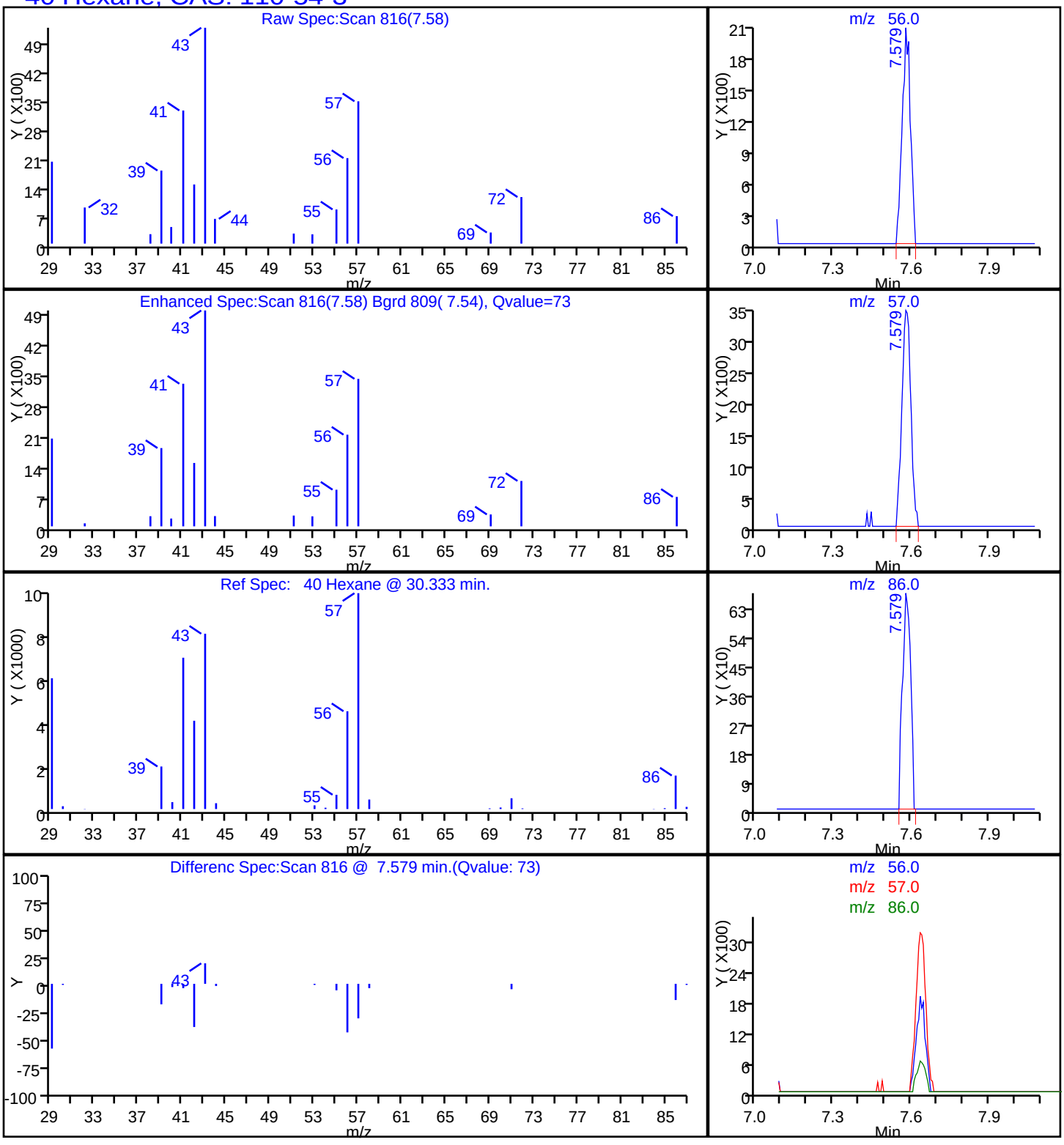


Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

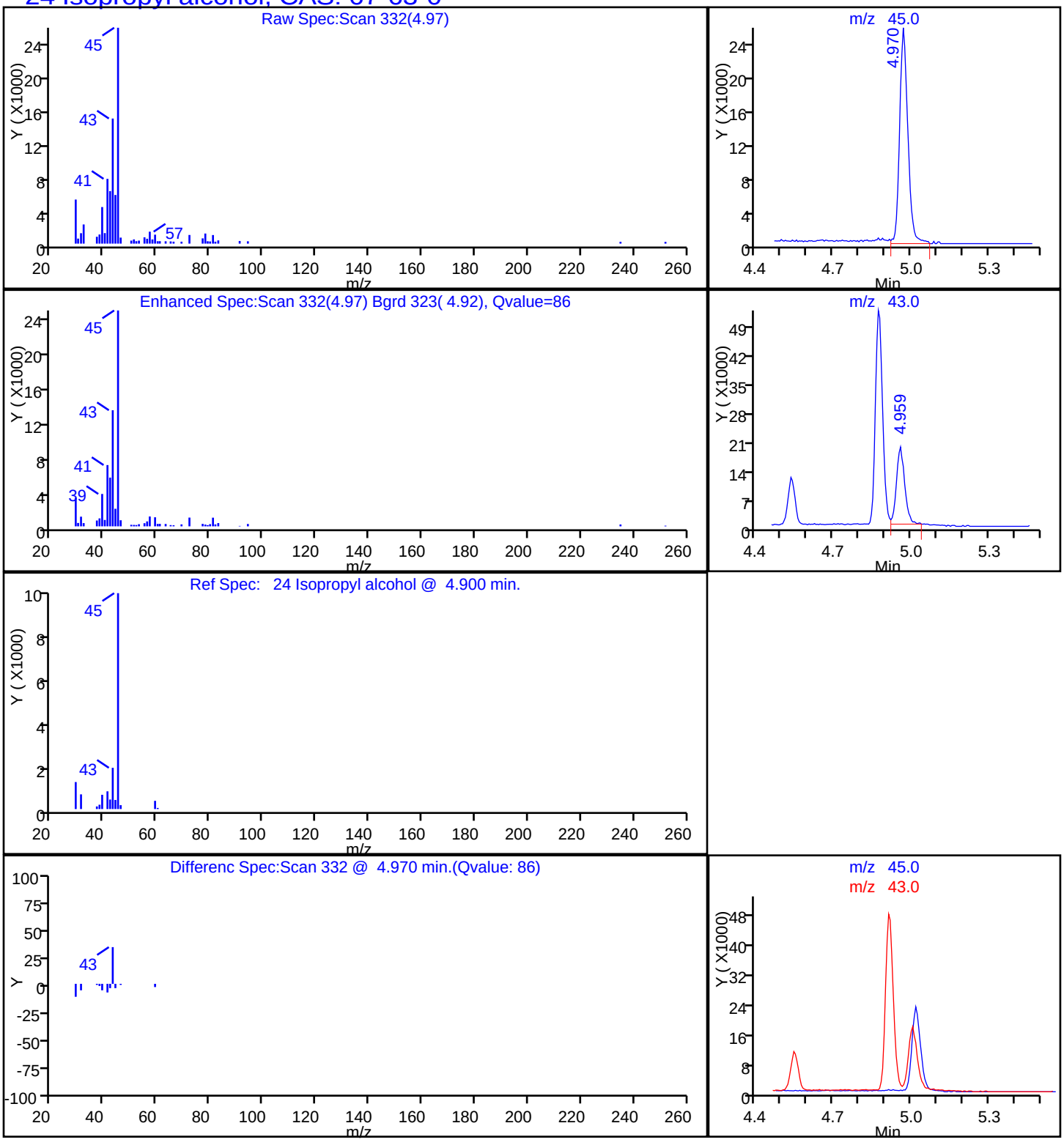


Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
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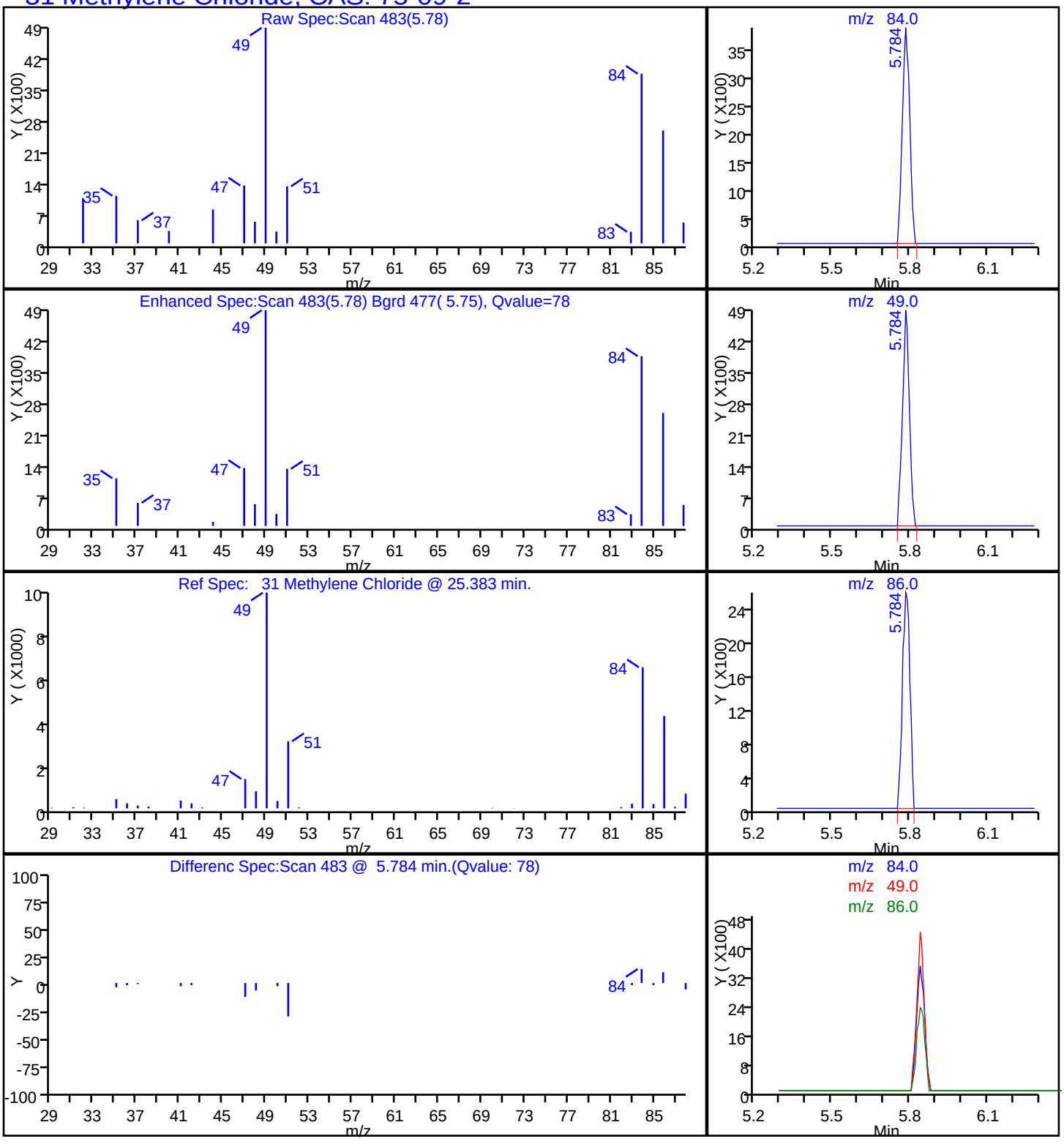
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

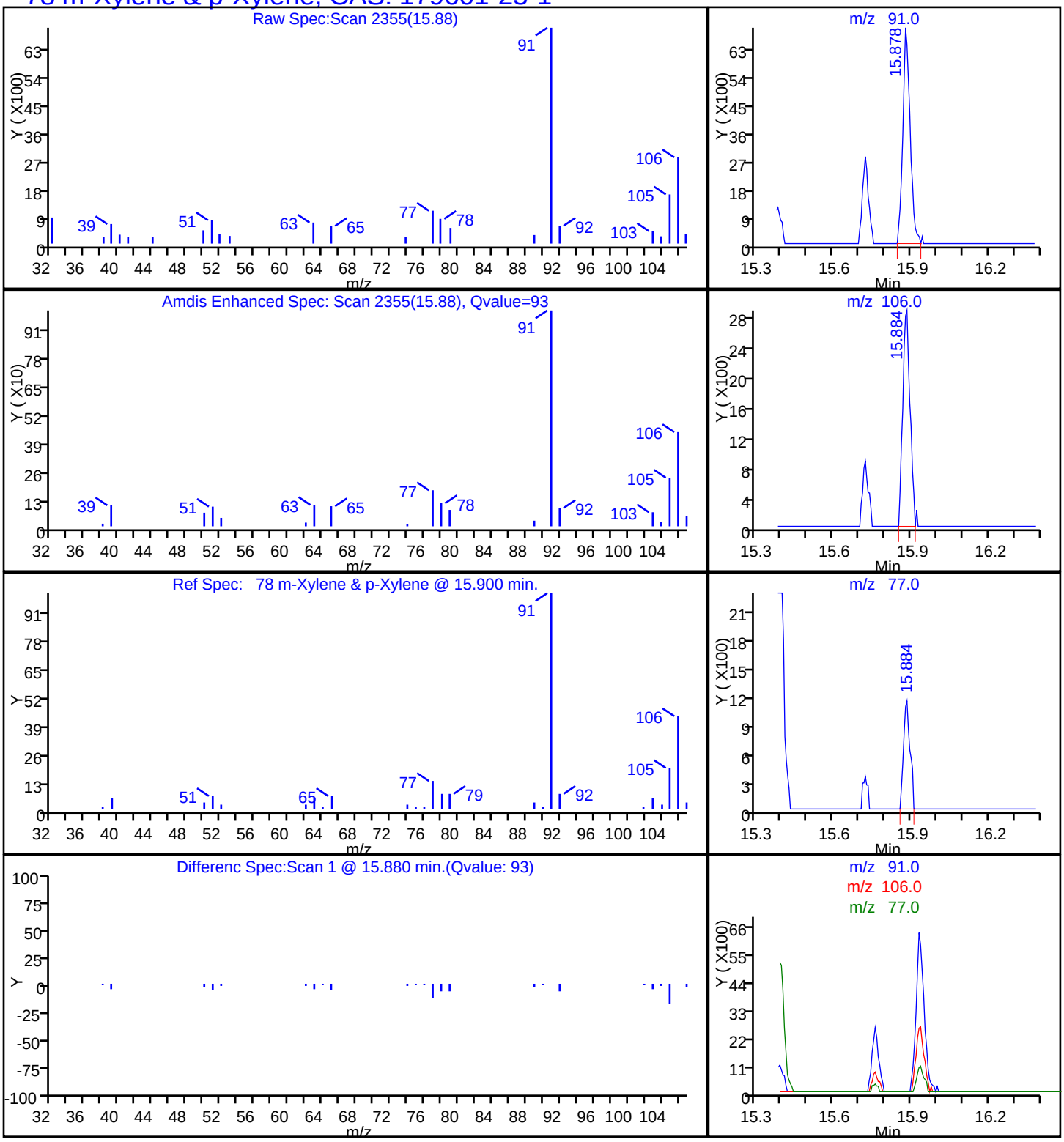


Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

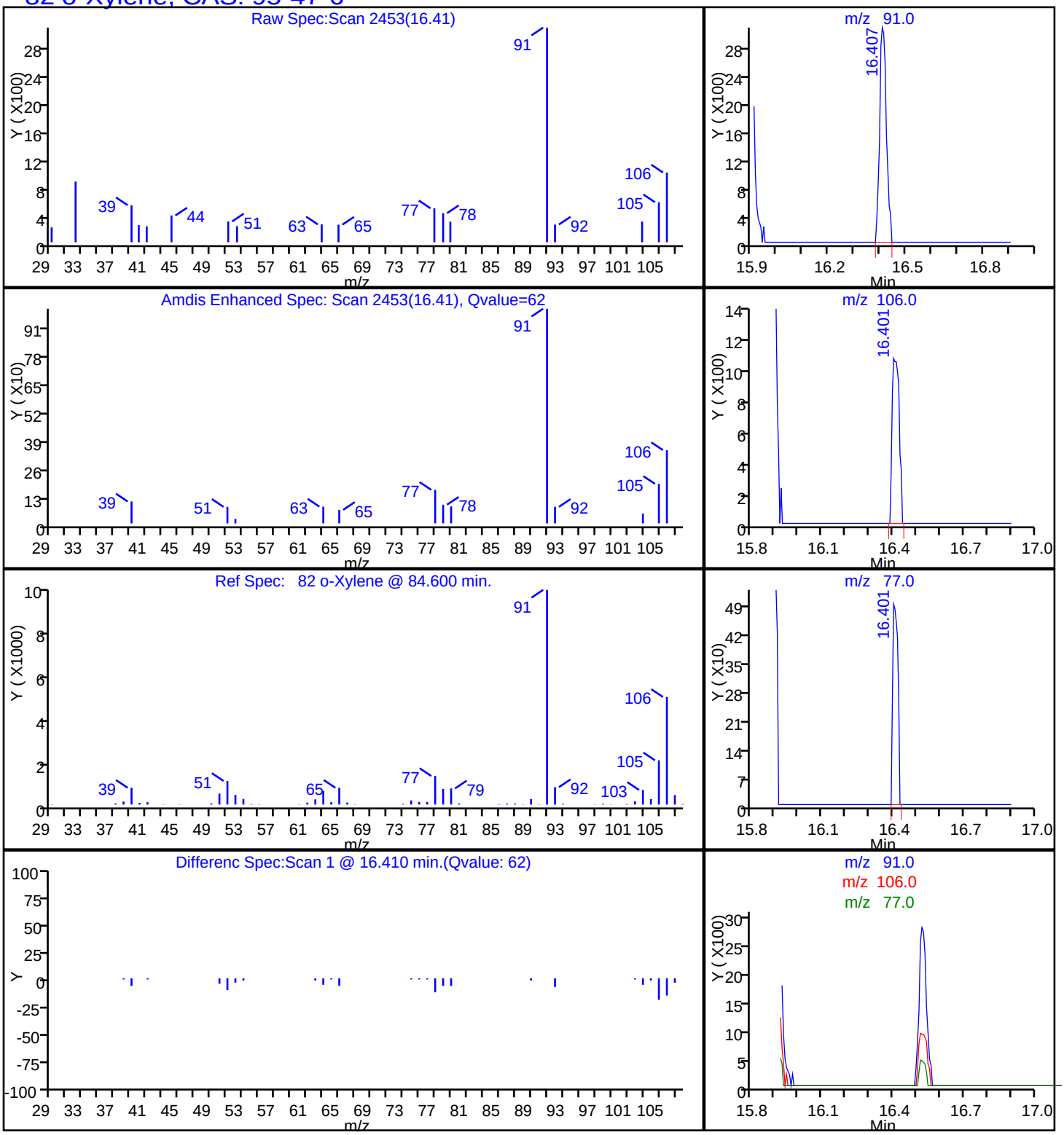
78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6

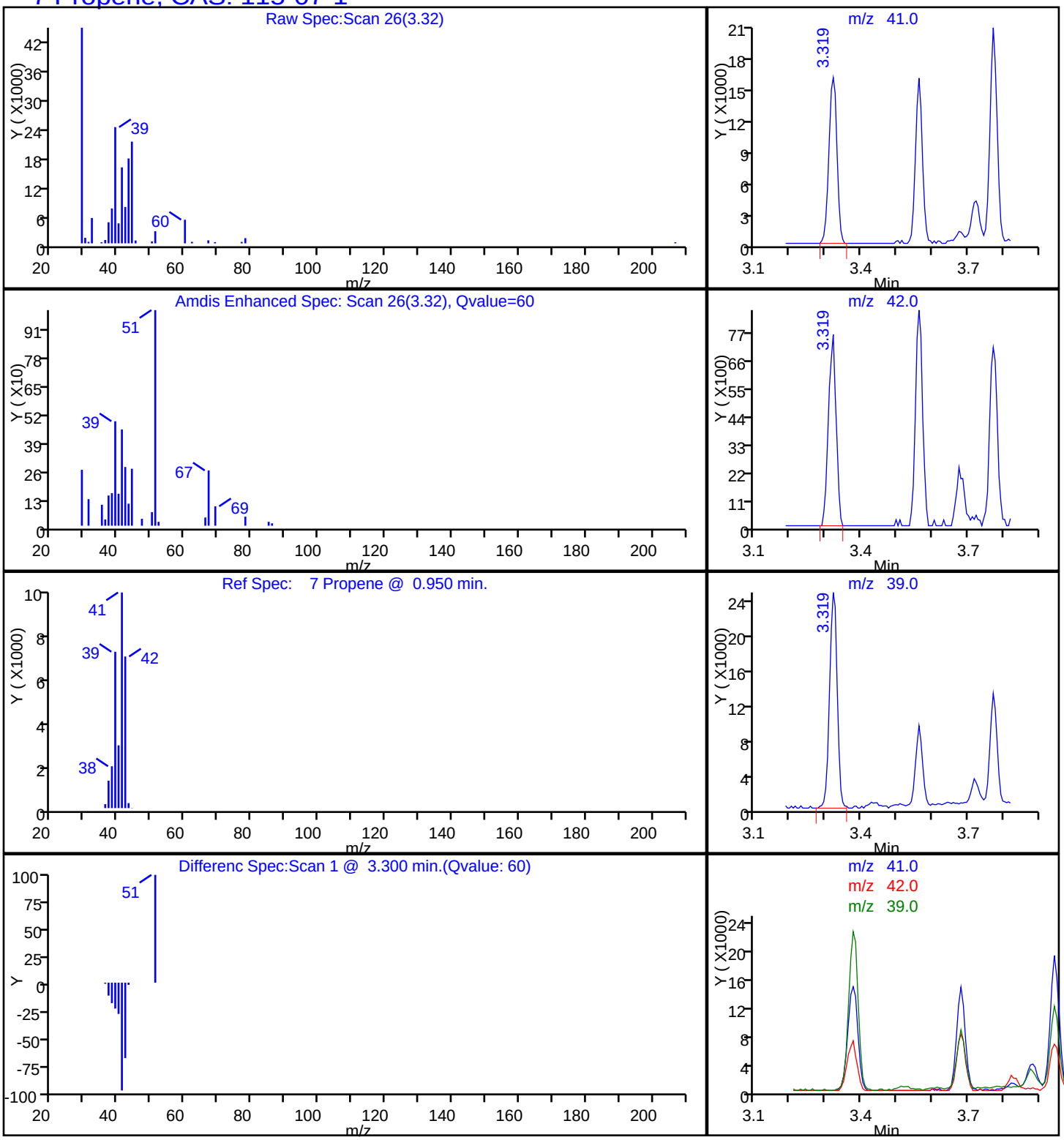


Report Date: 25-Mar-2014 14:37:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

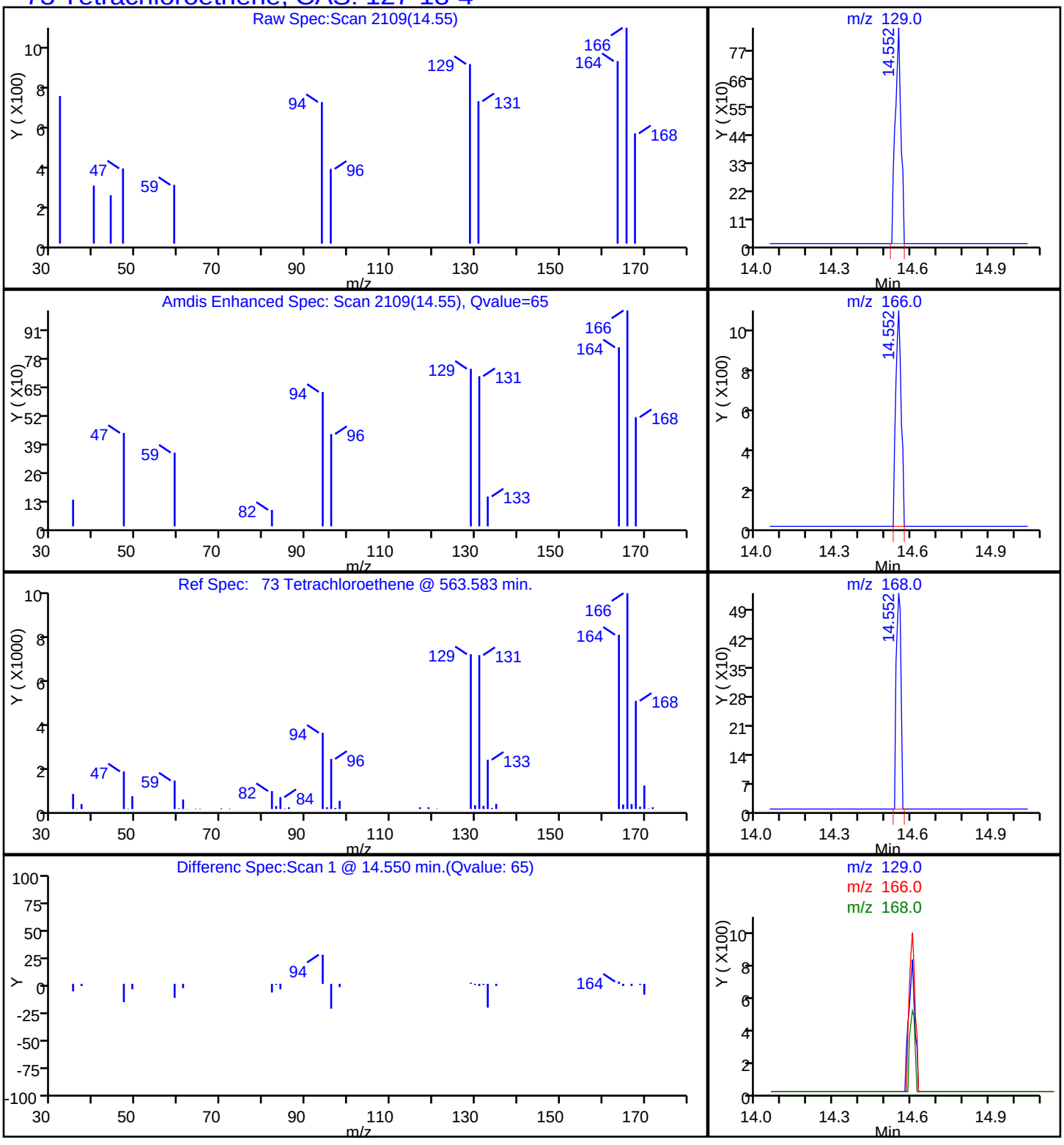
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D		
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D
Injection Date: 18-Mar-2014 09:06:30 Instrument ID: ME
Lims ID: 140-1054-A-5 Lab Sample ID: 140-1054-5
Client ID: PCV-IA3-B19
Operator ID: 060487 ALS Bottle#: 7 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



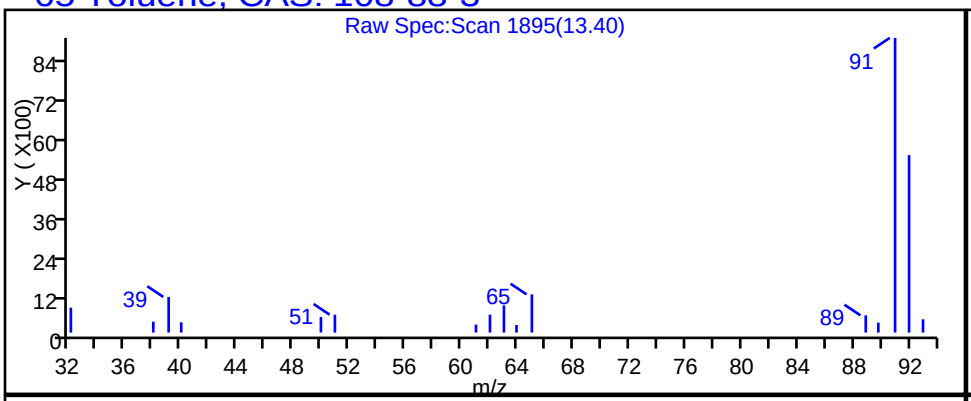
Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

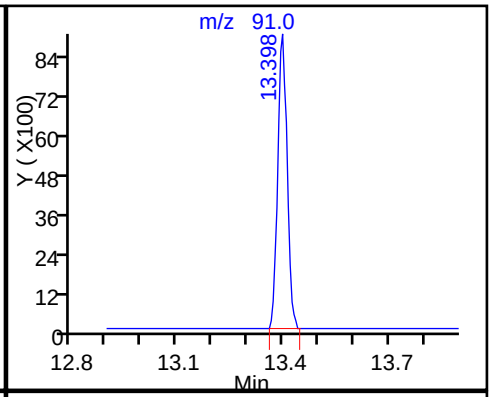
TestAmerica Knoxville

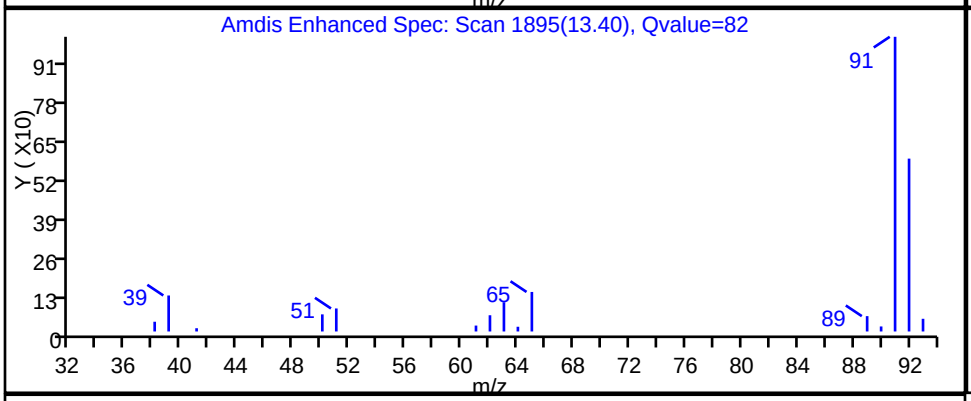
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D

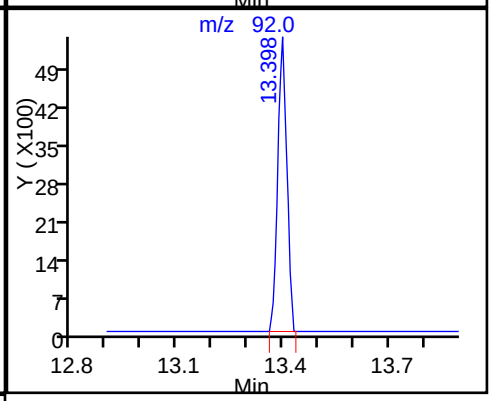
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5
Client ID:	PCV-IA3-B19		
Operator ID:	060487	ALS Bottle#:	7 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

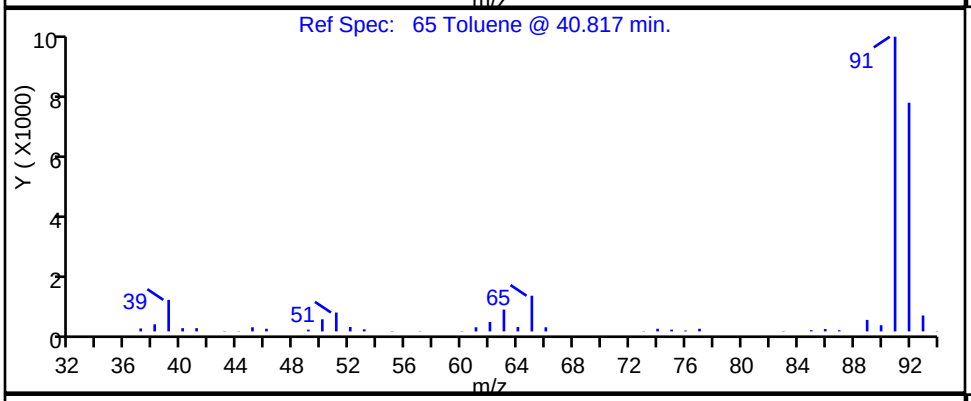
65 Toluene, CAS: 108-88-3

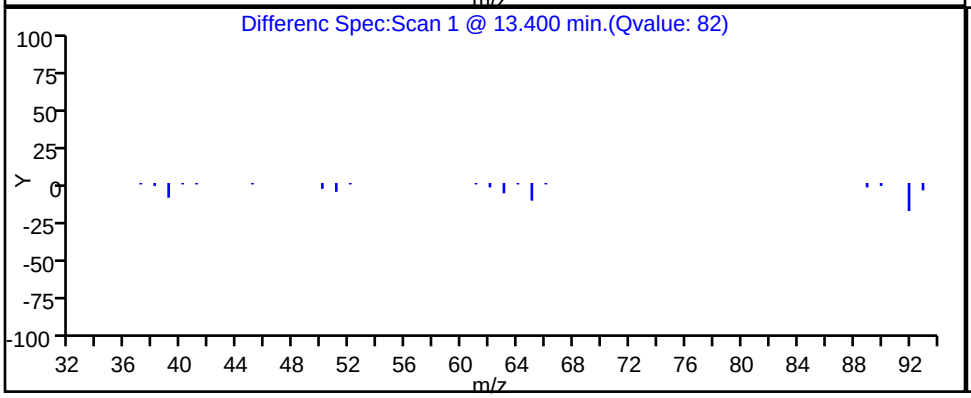


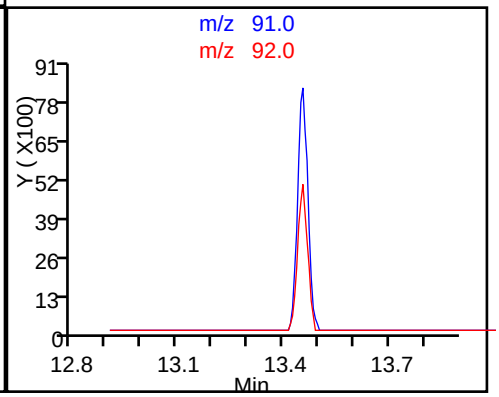










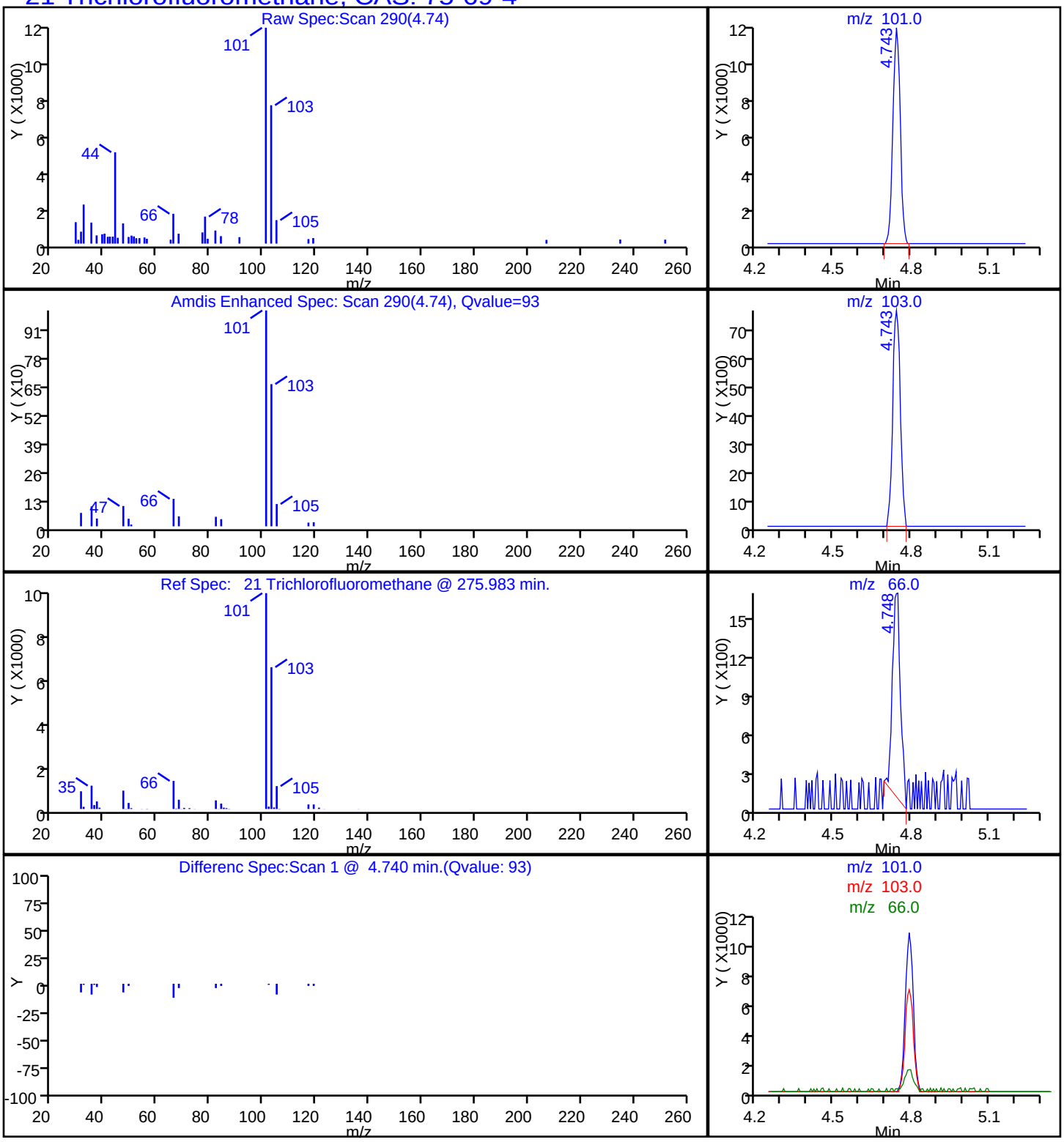


Report Date: 25-Mar-2014 14:37:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS107R.D				
Injection Date:	18-Mar-2014 09:06:30	Instrument ID:	ME		
Lims ID:	140-1054-A-5	Lab Sample ID:	140-1054-5		
Client ID:	PCV-IA3-B19				
Operator ID:	060487	ALS Bottle#:	7	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.063	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.32		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.072	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.053	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.64	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.92		0.50	0.031
107-83-5	2-Methylpentane	86.18	1.6		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.12	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.10	J	0.50	0.045
67-64-1	Acetone	58.08	19		5.0	1.4
71-43-2	Benzene	78.11	0.25		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.035	J *	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.060	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	0.071	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.095	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	54		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.28		0.20	0.068
142-82-5	Heptane	100.21	0.18	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	13		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.8		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.39	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.43		0.20	0.061
115-07-1	Propene	42.08	7.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.057	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.69		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.23		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.48	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.6		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.36	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.9	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	5.5		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.61	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.41	J	2.0	0.18
67-64-1	Acetone	58.08	45		12	3.3
71-43-2	Benzene	78.11	0.79		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.14	J *	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.37	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	0.35	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.33	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	100		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.2		0.87	0.30
142-82-5	Heptane	100.21	0.72	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	45		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	5.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.9		0.87	0.26
115-07-1	Propene	42.08	13	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.39	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: PCV-IA2-B21 Lab Sample ID: 140-1054-6

Matrix: Air Lab File ID: EC17POS108.D

Analysis Method: TO-15 Date Collected: 03/10/2014 17:10

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D
Lims ID: 140-1054-A-6 Lab Sample ID: 140-1054-6
Client ID: PCV-IA2-B21
Sample Type: Client
Inject. Date: 17-Mar-2014 23:15:30 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1054-a-6
Misc. Info.: E031714,TO155,,140-0000525-013
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 14:36:08 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: liul Date: 25-Mar-2014 14:34:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	78	228303	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	95	1110280	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	91	967018	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	86	841909	3.98	
7 Propene	41	3.325	3.309	0.016	55	168972	2.94	
8 Dichlorodifluoromethane	85	3.363	3.357	0.006	96	46745	0.1851	
9 Chloromethane	52	3.530	3.530	0.0	98	4642	0.2303	
15 Bromomethane	94	4.069	4.080	-0.011	1	1178	0.0140	
17 Ethanol	31	4.317	4.317	0.0	98	490291	21.5	
19 2-Methylbutane	43	4.538	4.538	0.0	87	29293	0.3664	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	94	23176	0.0915	
23 Acetone	58	4.867	4.878	-0.011	99	264847	7.66	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	99	172382	1.94	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	60	3934	0.0251	
31 Methylene Chloride	84	5.795	5.789	0.006	75	10275	0.1575	
35 2-Methylpentane	43	6.593	6.603	-0.010	87	93843	0.6242	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	49	9635	0.2578	
40 Hexane	56	7.585	7.585	0.0	86	312426	5.14	
43 Chloroform	83	8.345	8.356	-0.011	16	5571	0.0285	
49 Cyclohexane	69	9.984	9.984	0.0	50	1591	0.0380	
48 Benzene	78	9.984	9.995	-0.011	93	21988	0.0984	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	89	5115	0.0238	
53 Isooctane	57	10.777	10.783	-0.005	66	7280	0.0211	
54 n-Heptane	71	11.176	11.182	-0.006	69	5955	0.0704	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	78	5278	0.0401	
65 Toluene	91	13.398	13.403	-0.005	92	71905	0.2776	
73 Tetrachloroethene	129	14.552	14.552	0.0	73	2520	0.0228	
76 Ethylbenzene	91	15.722	15.727	-0.005	96	36736	0.1106	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	99	124125	0.4753	
82 o-Xylene	91	16.407	16.412	-0.005	95	48258	0.1710	
88 4-Ethyltoluene	105	17.706	17.701	0.005	71	17694	0.0495	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	83	4685	0.0289	
93 1,2,4-Trimethylbenzene	105	18.224	18.229	-0.005	97	37595	0.1267	

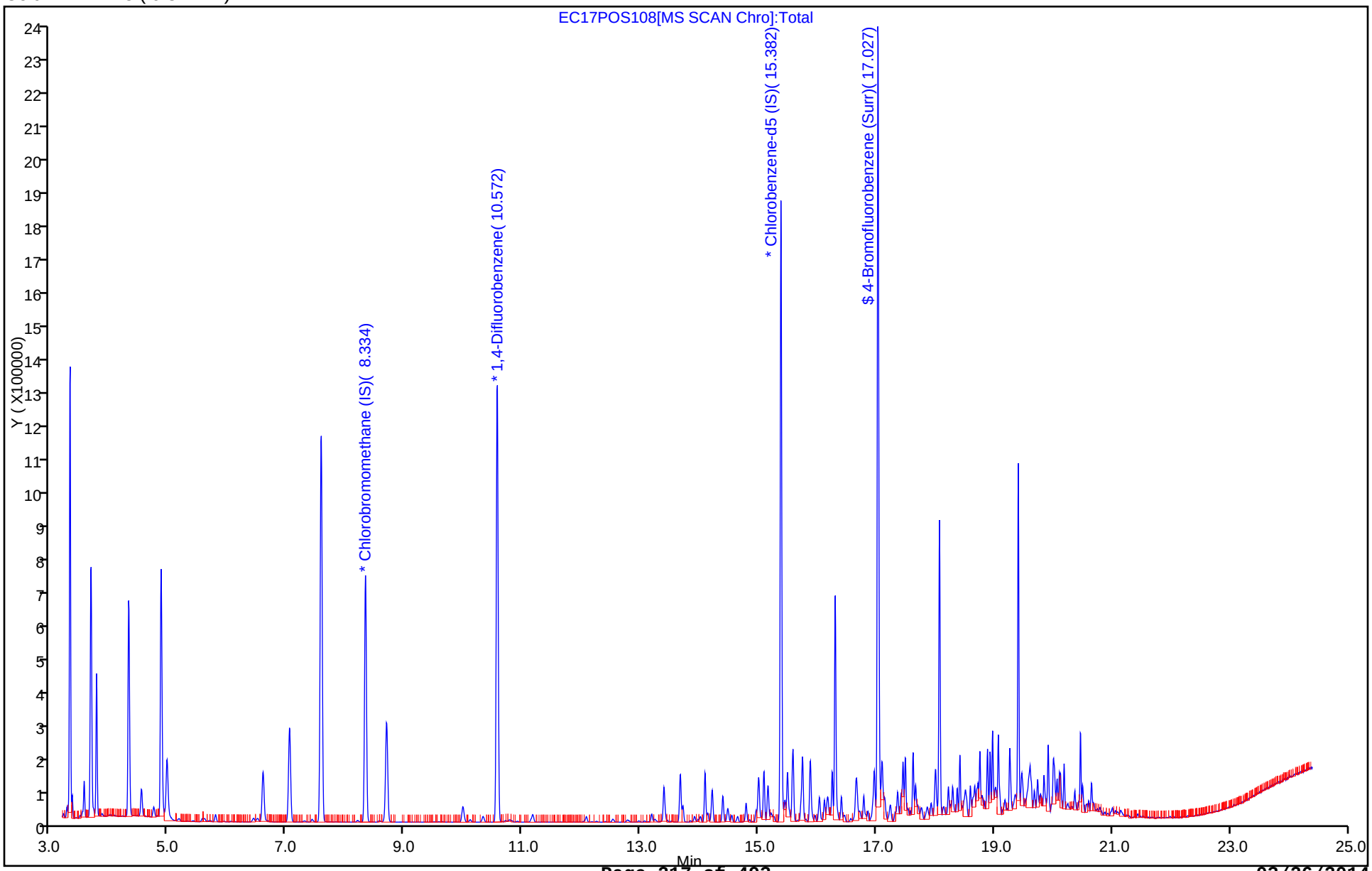
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

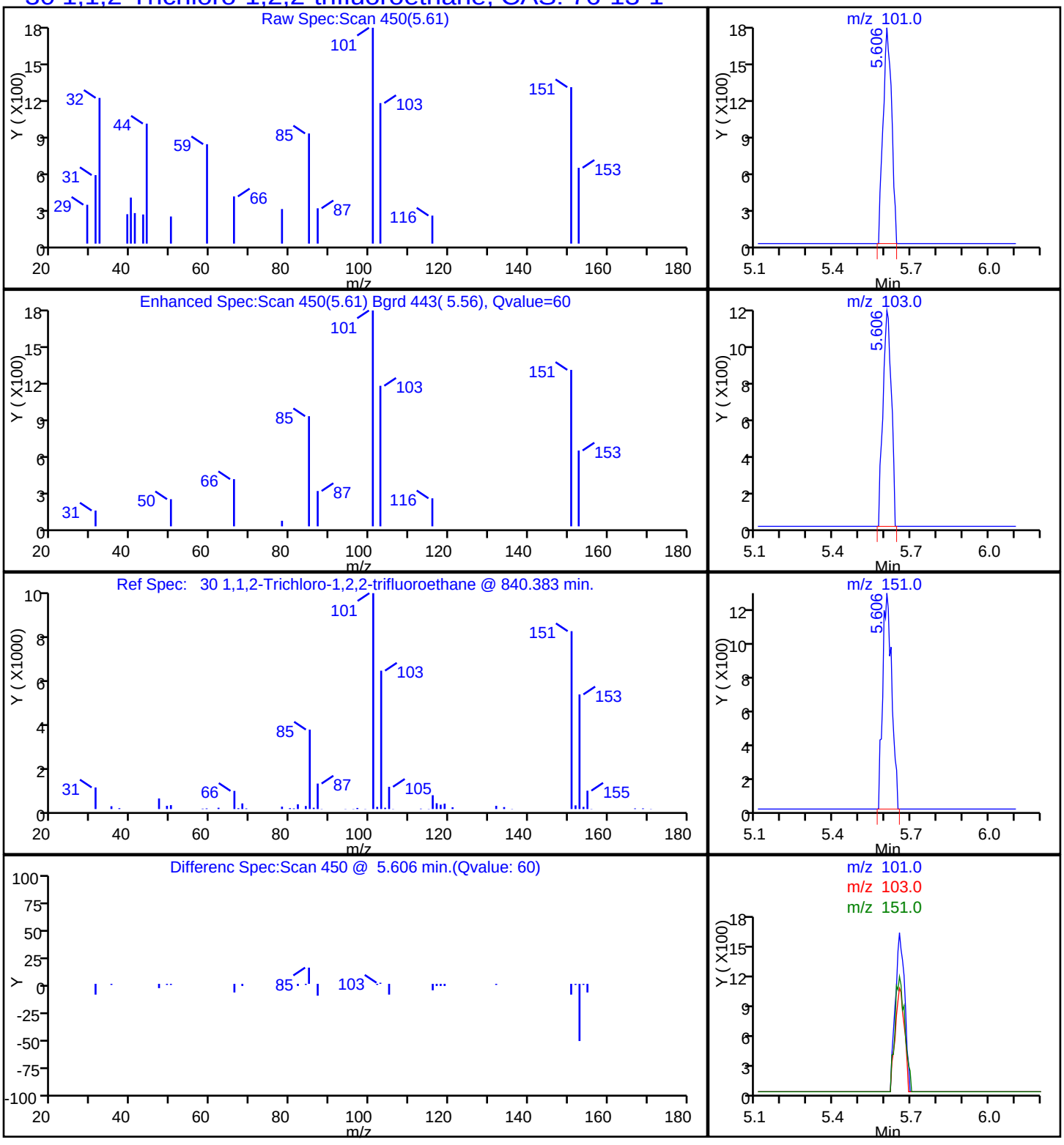
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6	Worklist Smp#:	13
Client ID:	PCV-IA2-B21				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D
Injection Date: 17-Mar-2014 23:15:30 Instrument ID: ME
Lims ID: 140-1054-A-6 Lab Sample ID: 140-1054-6
Client ID: PCV-IA2-B21
Operator ID: 060487 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

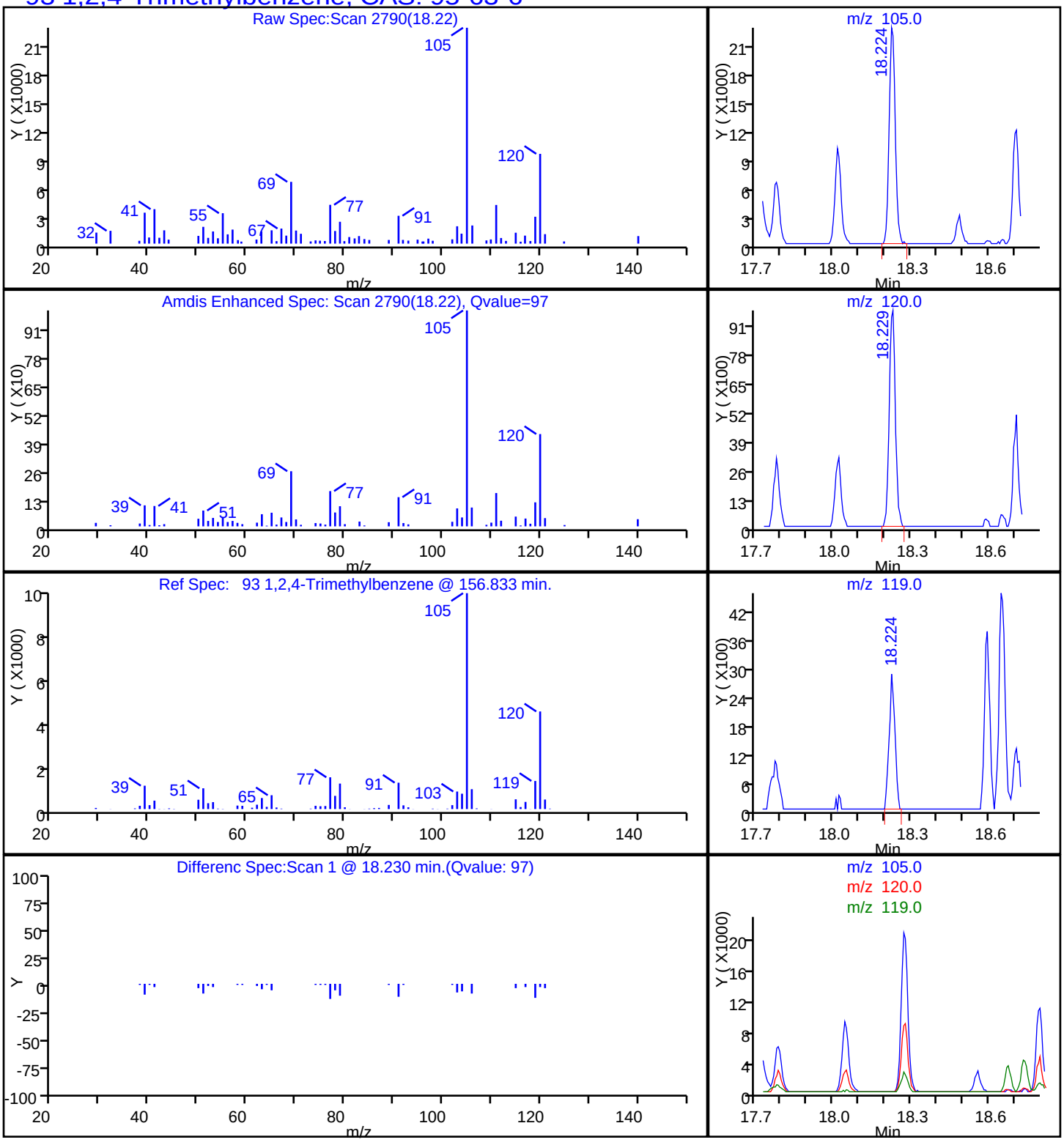


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

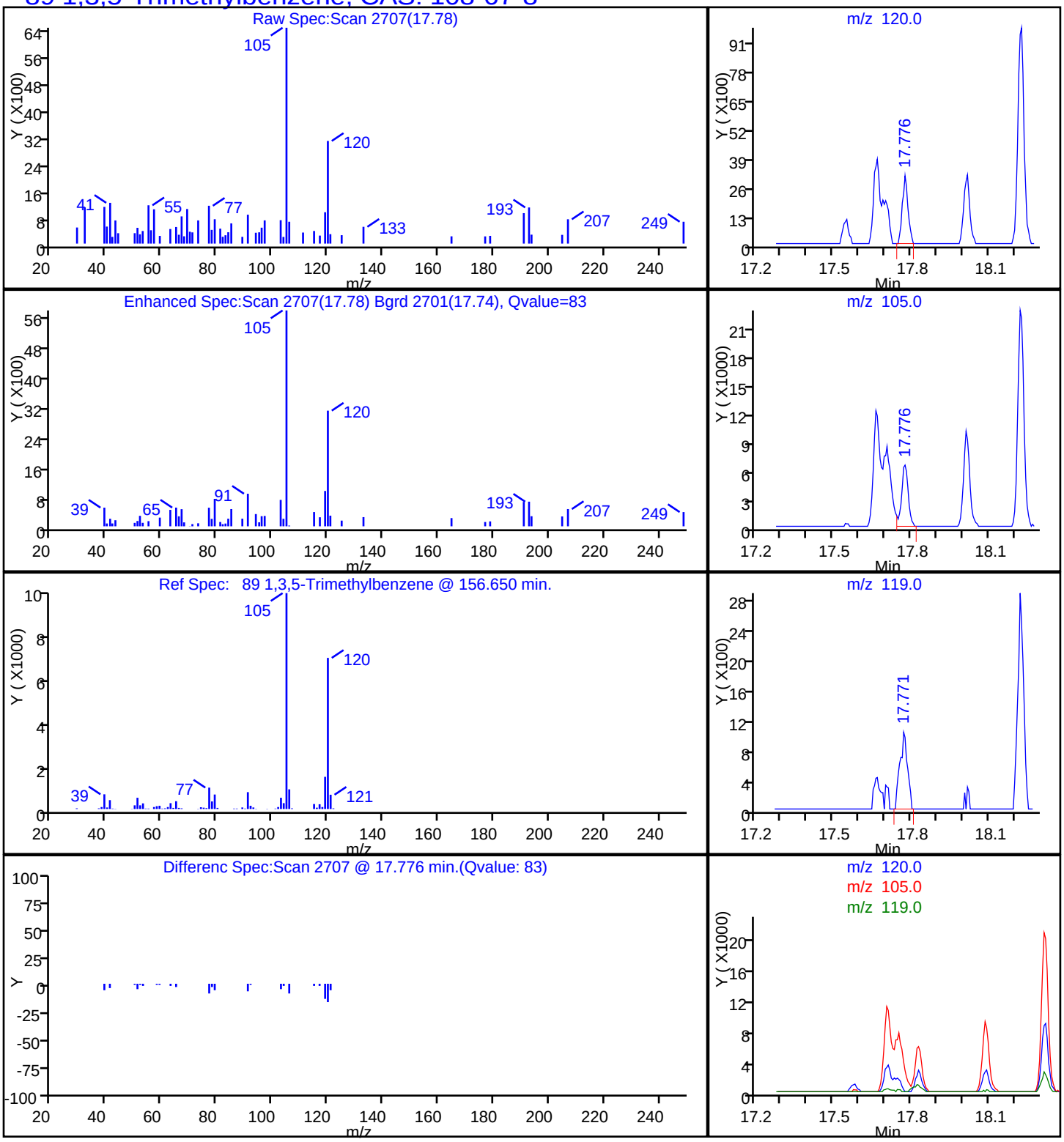


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



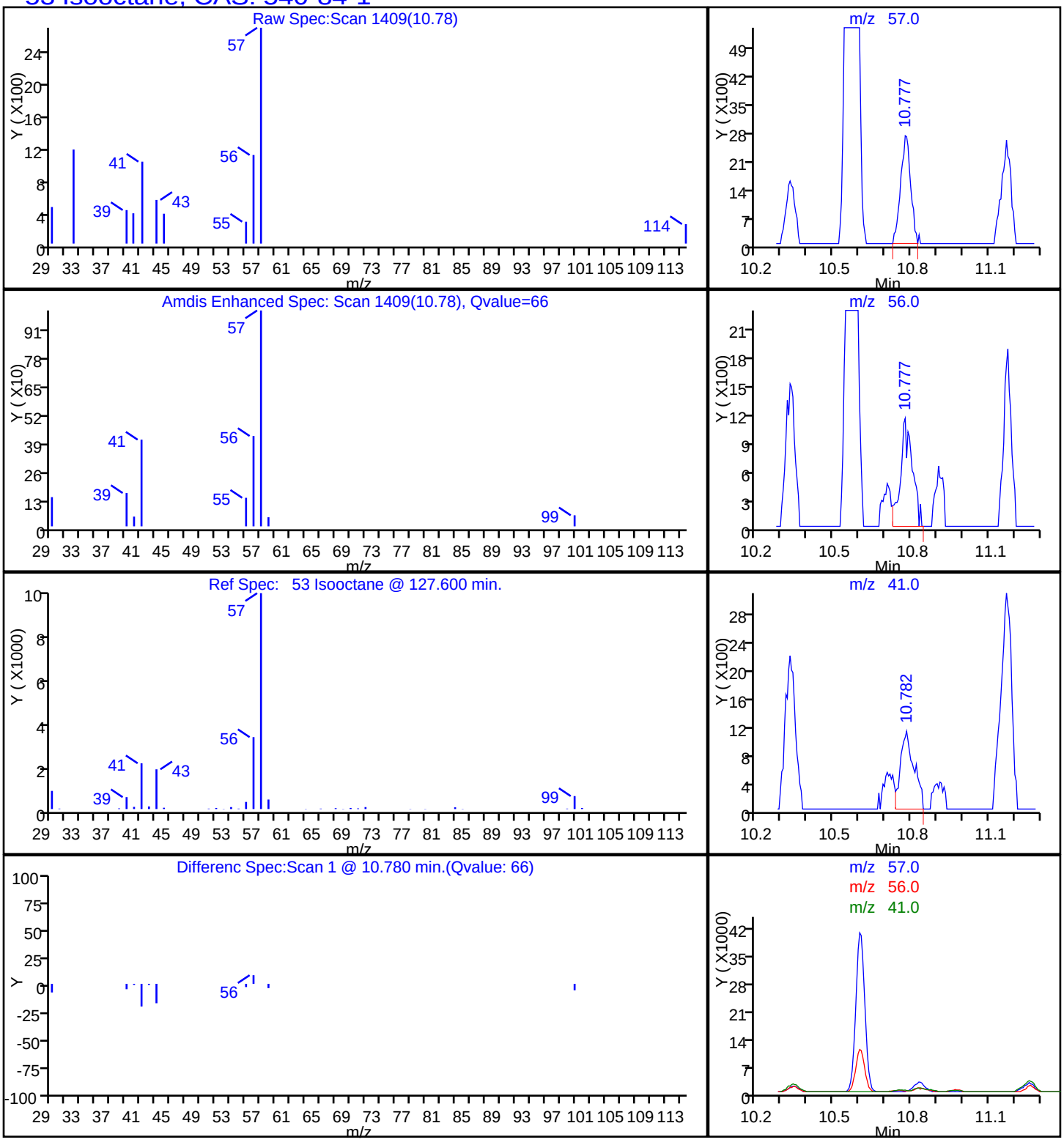
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
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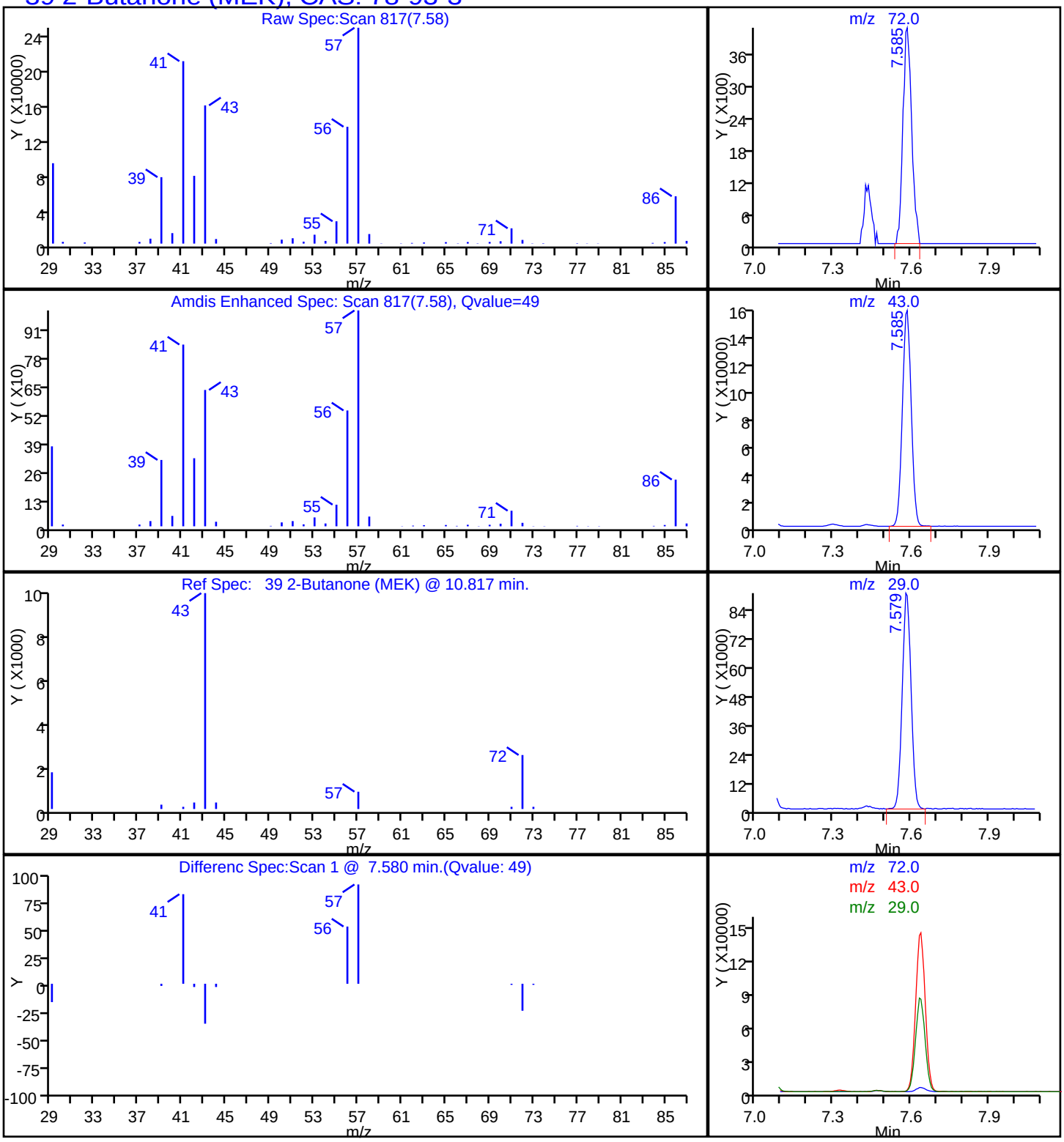
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



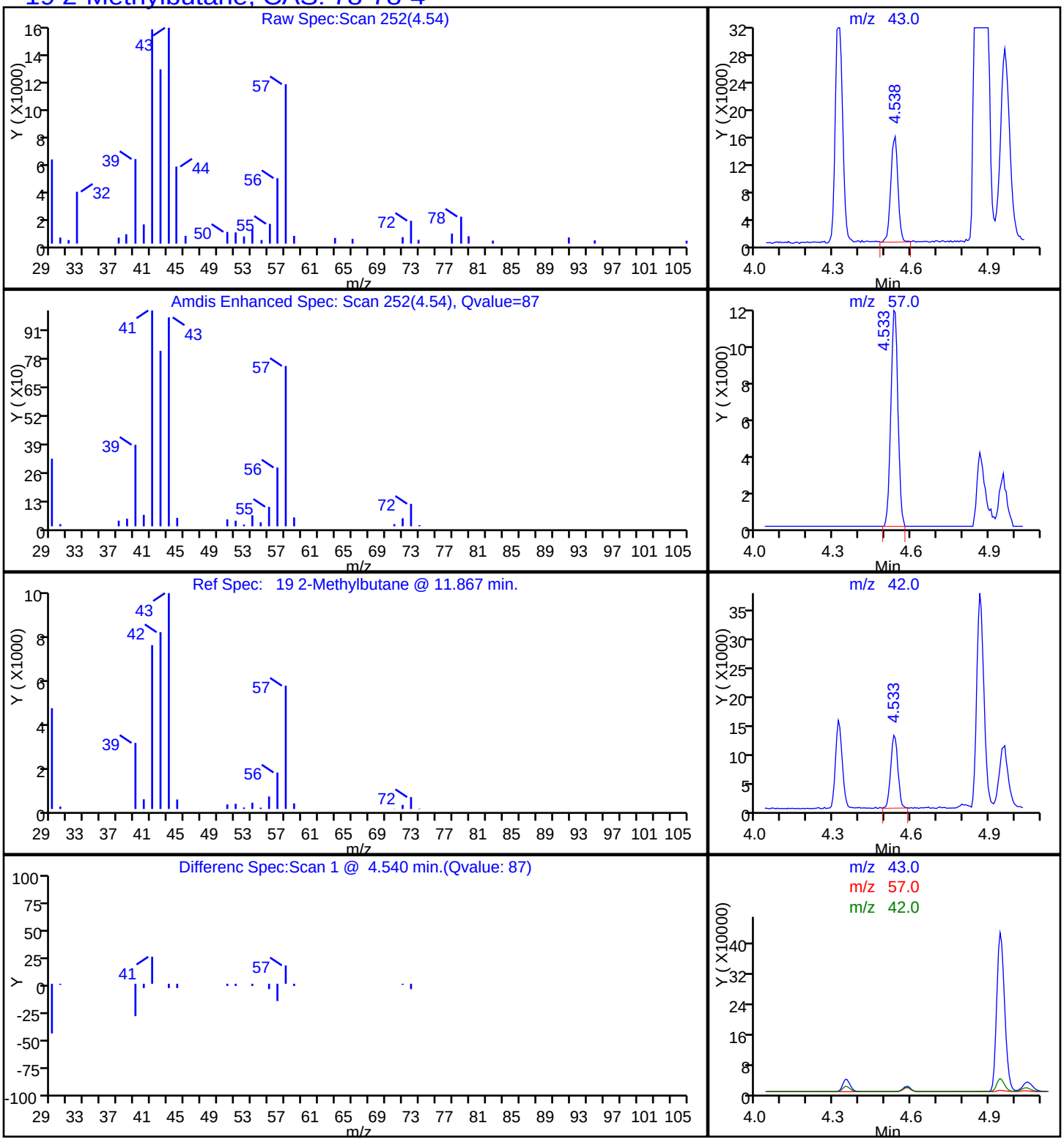
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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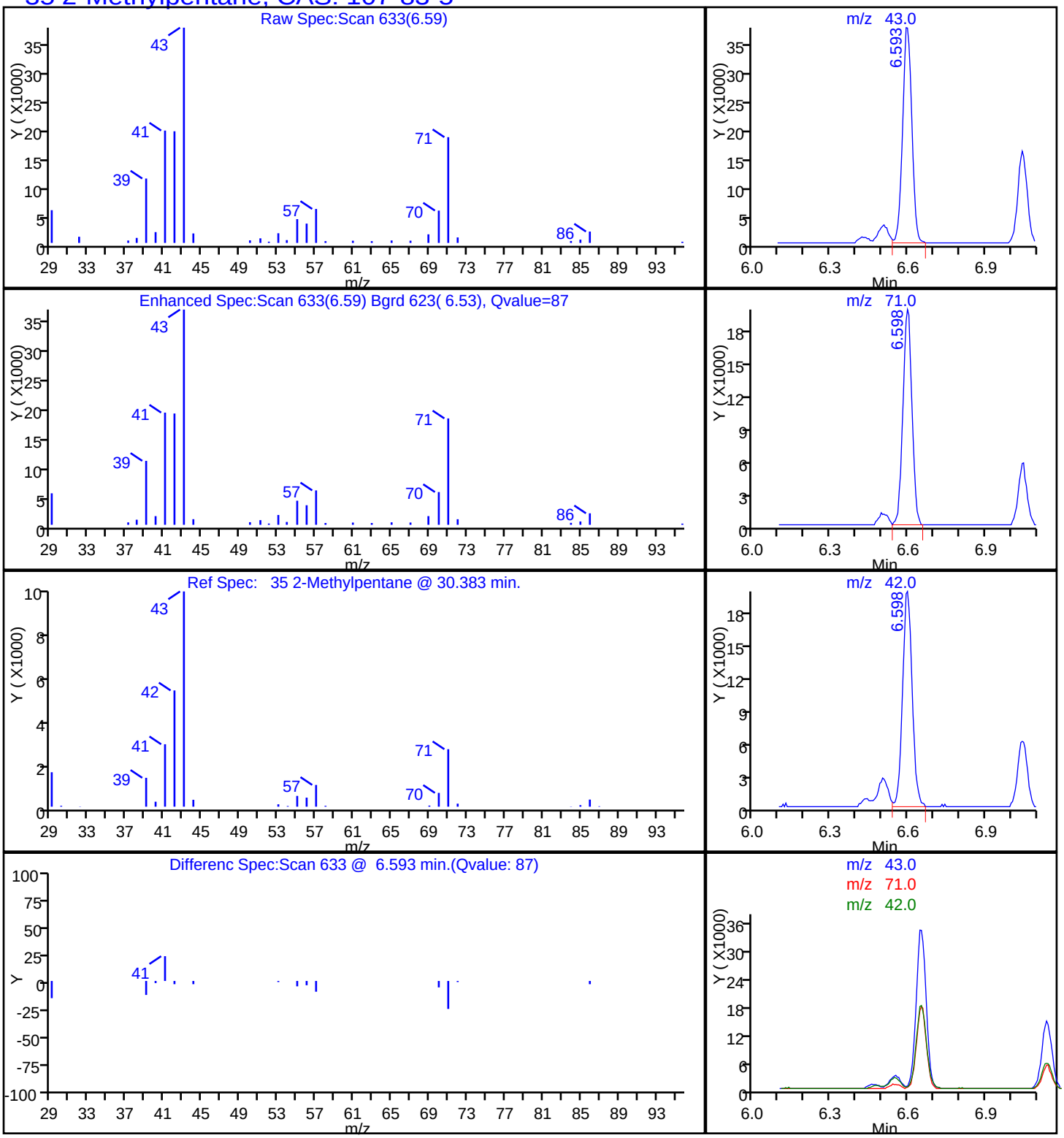
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



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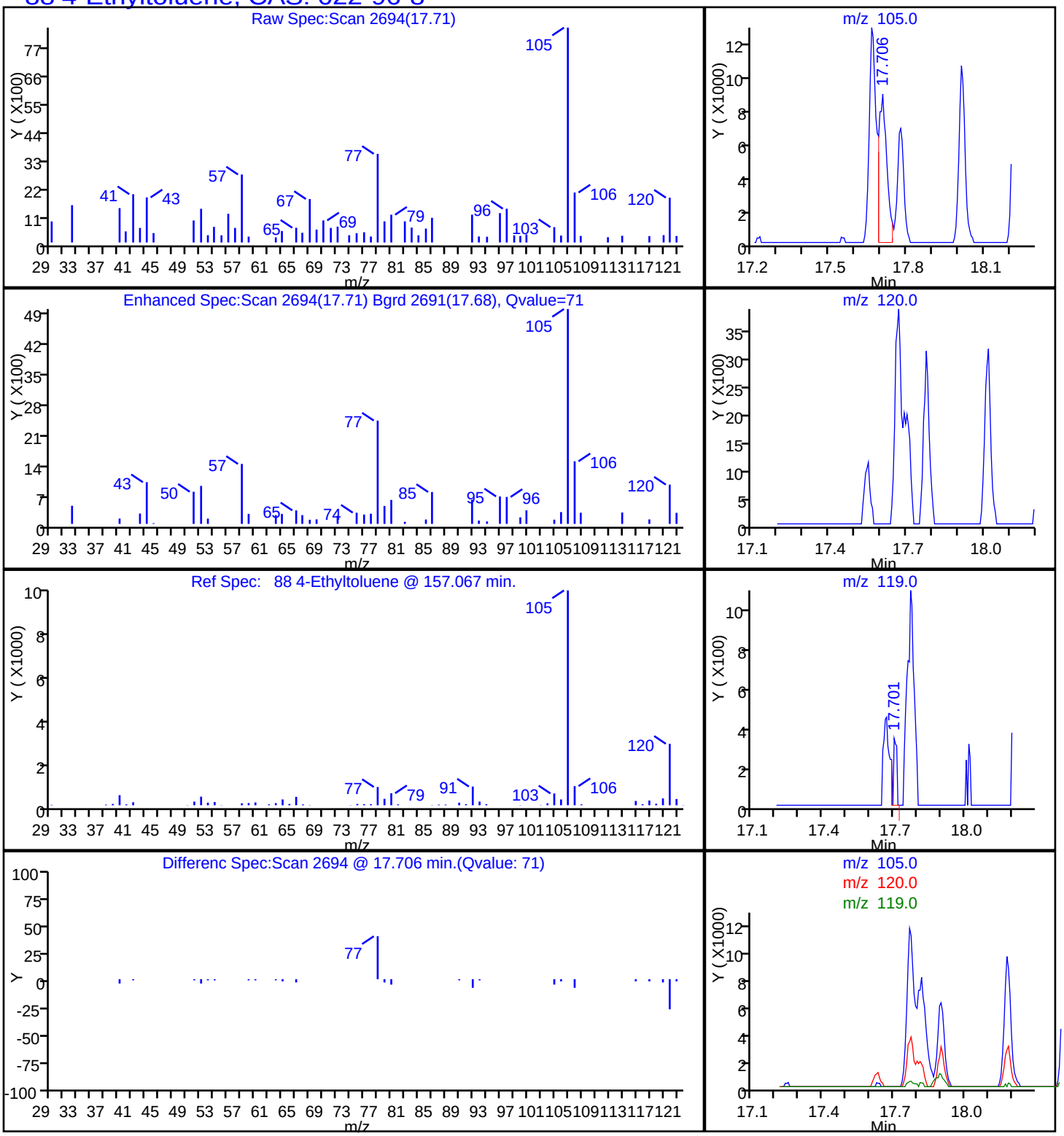
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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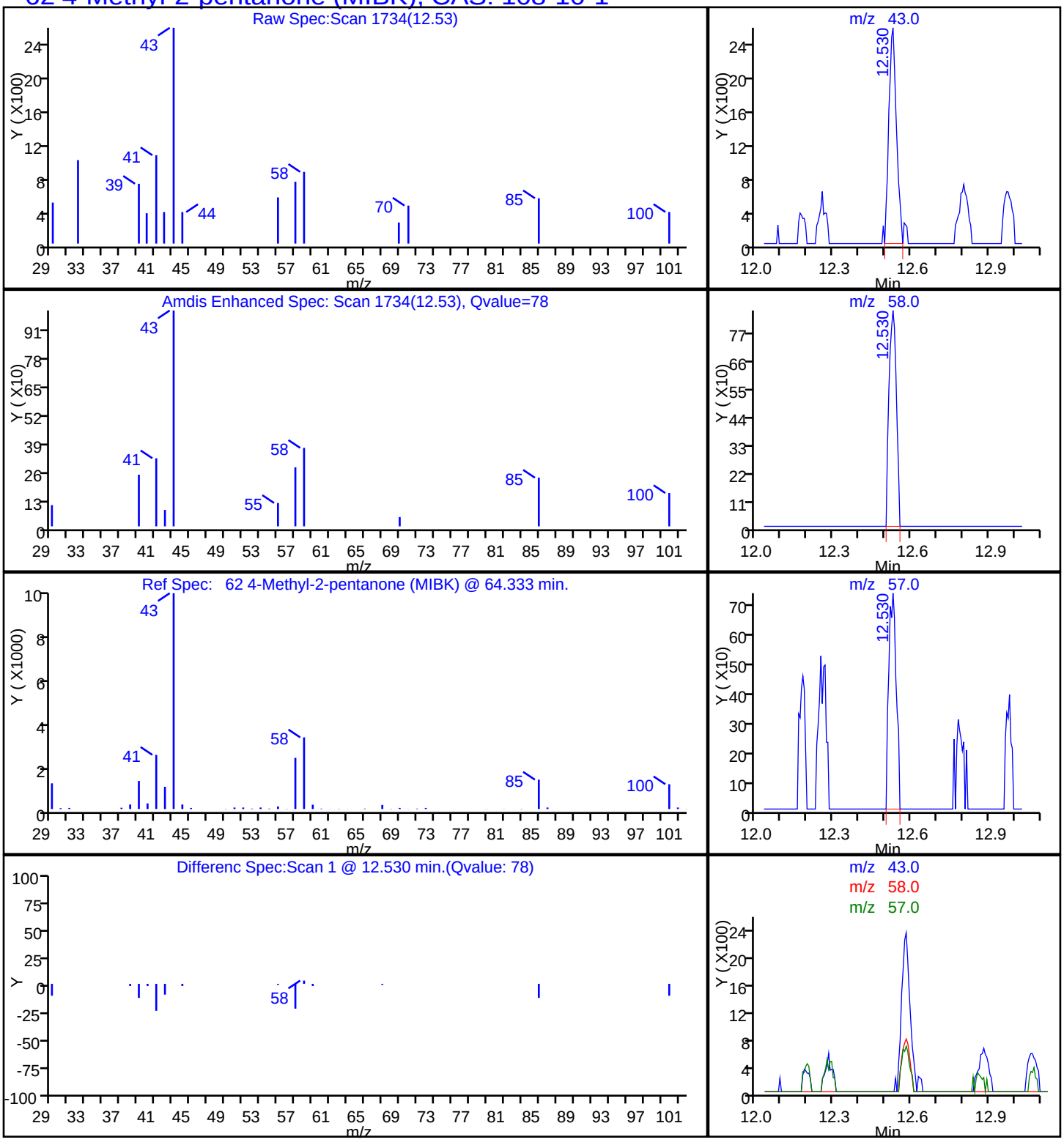
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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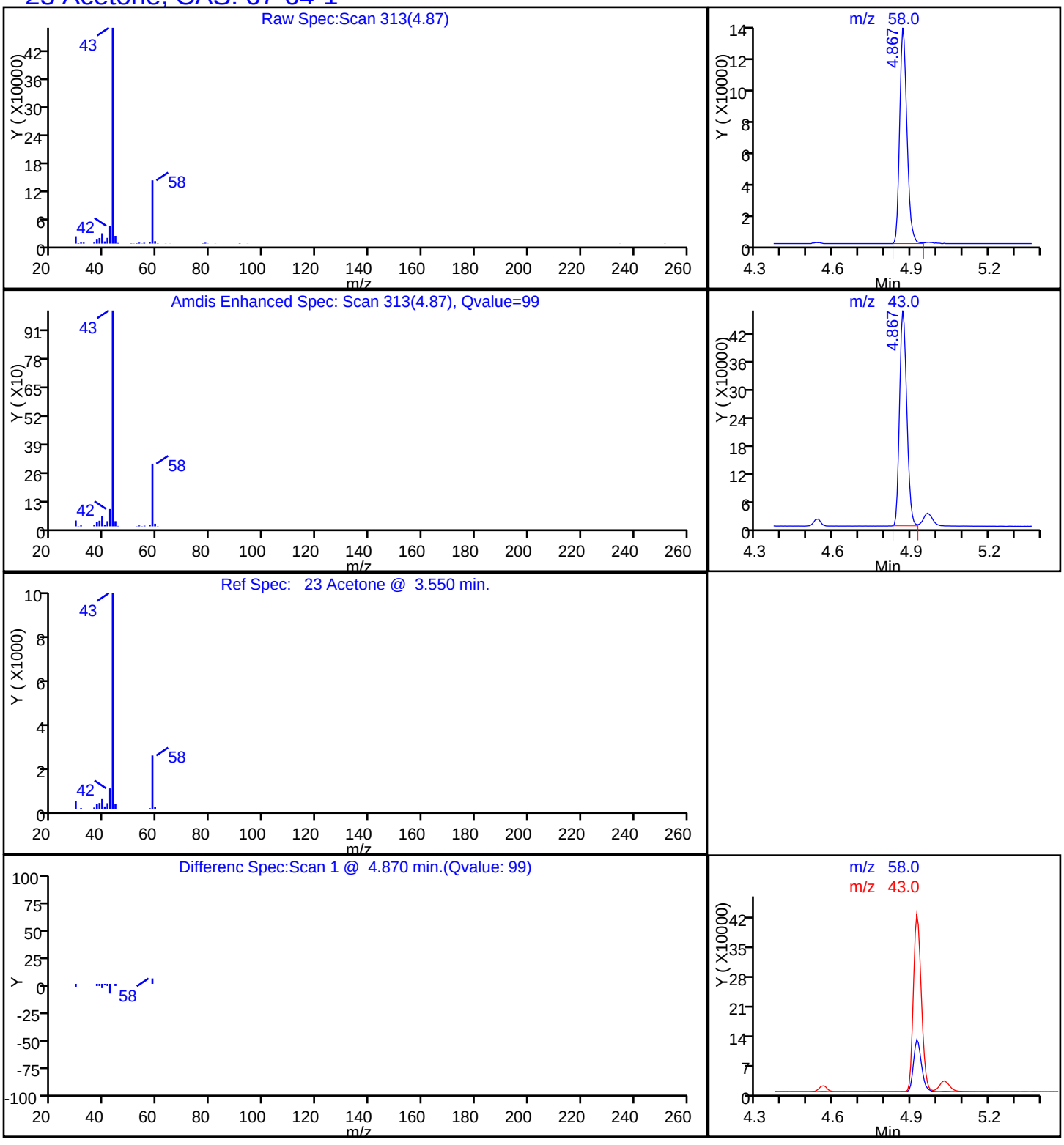
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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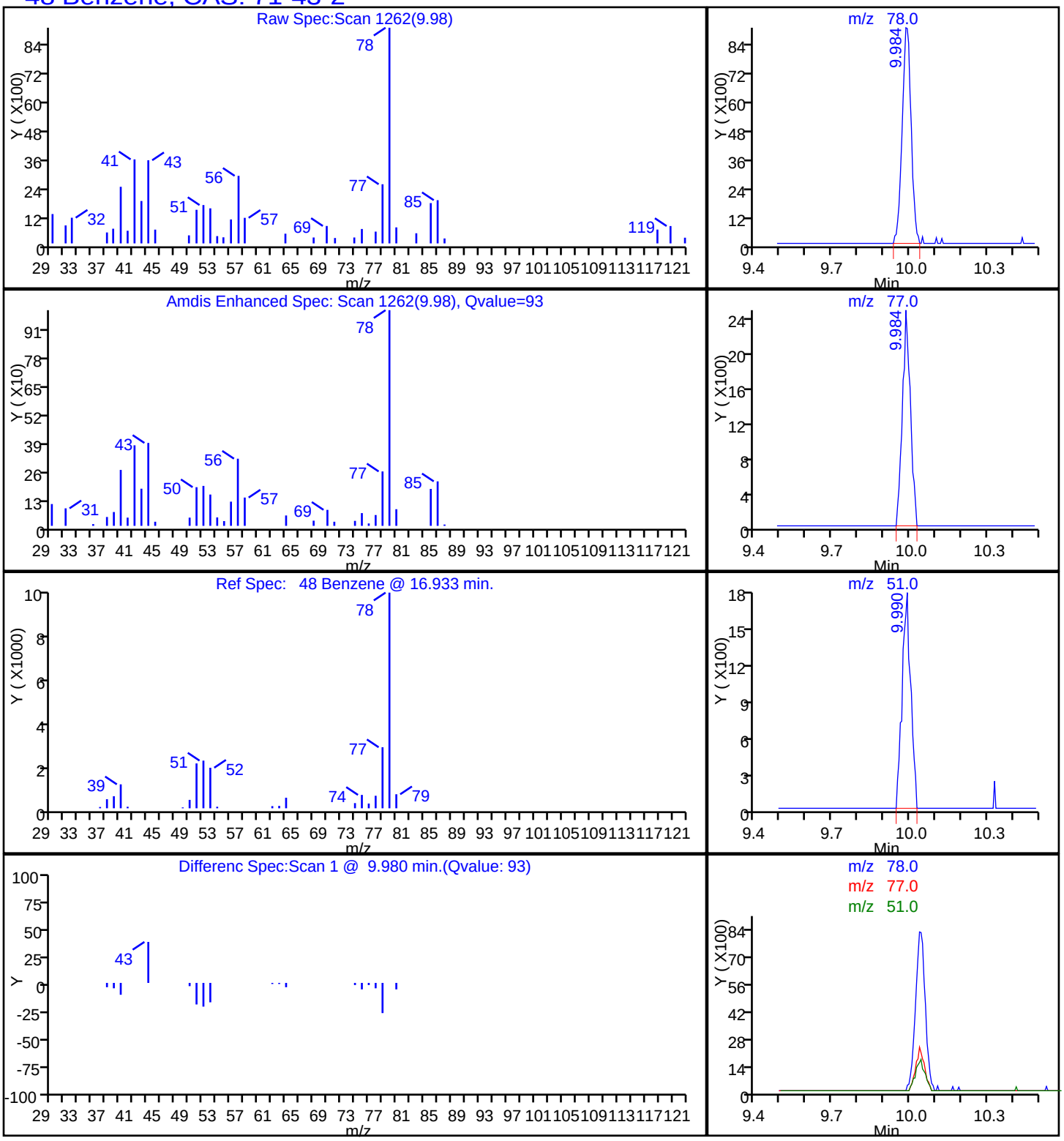
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
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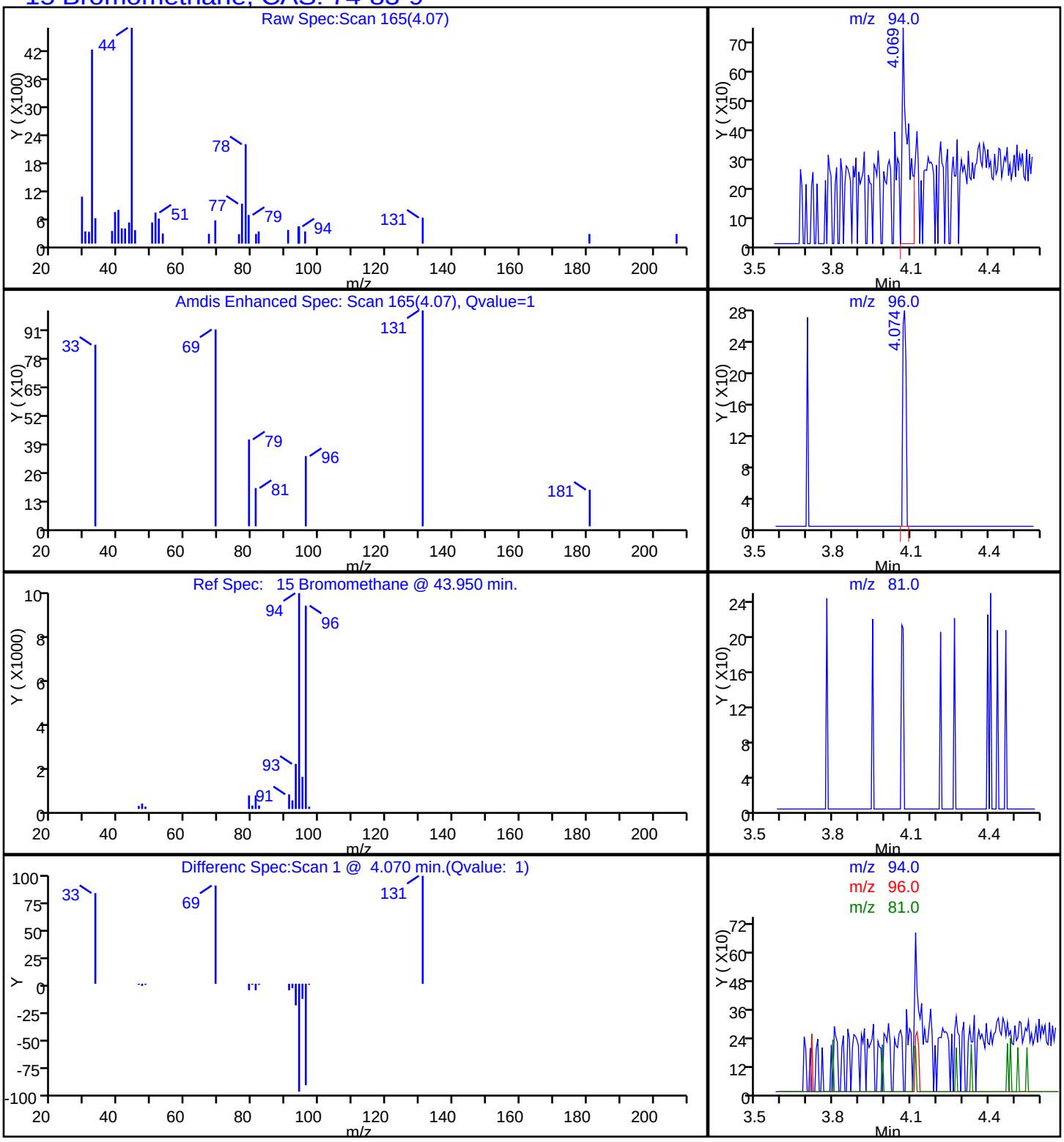
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9



Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
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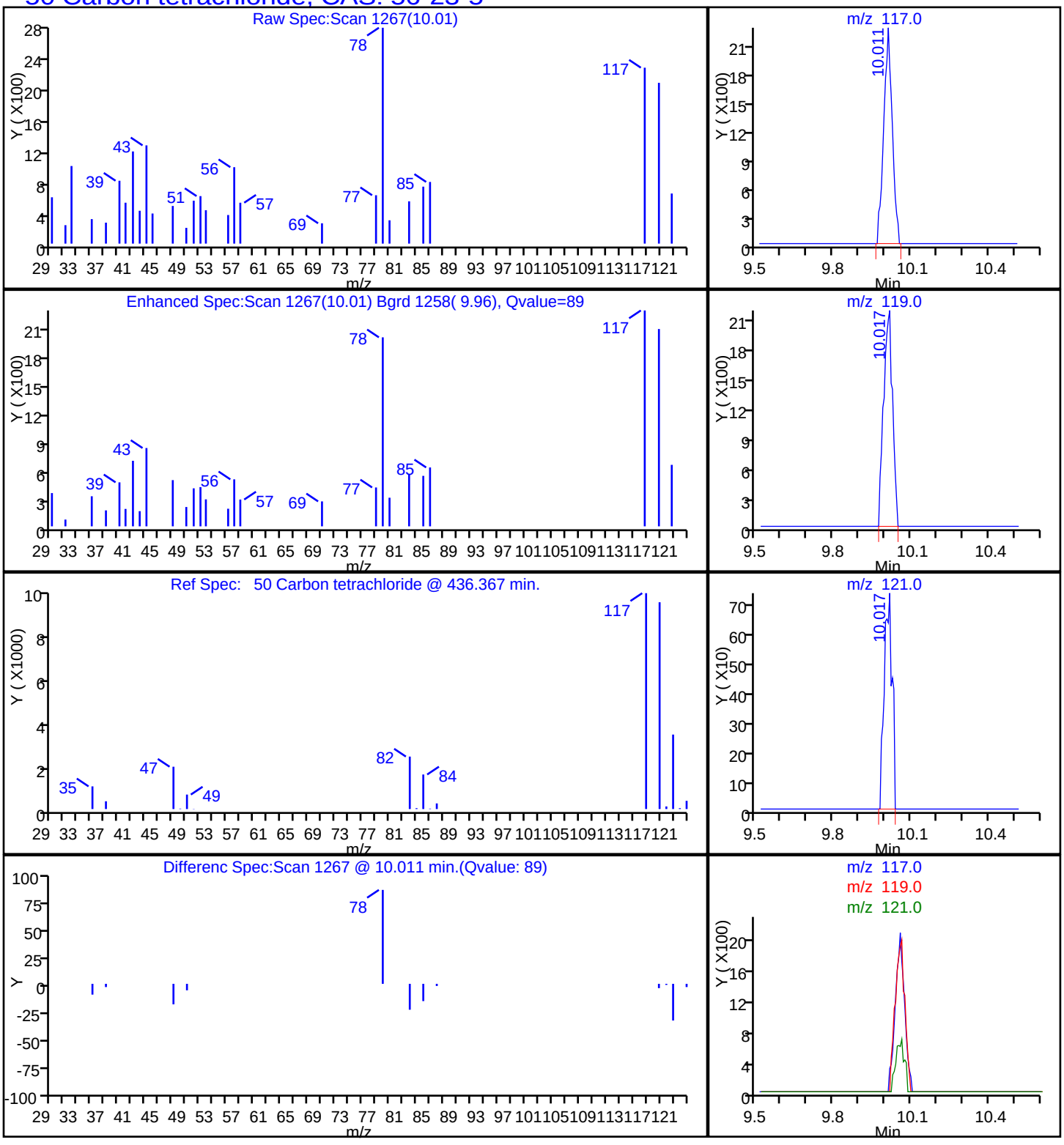
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D
Injection Date: 17-Mar-2014 23:15:30 Instrument ID: ME
Lims ID: 140-1054-A-6 Lab Sample ID: 140-1054-6
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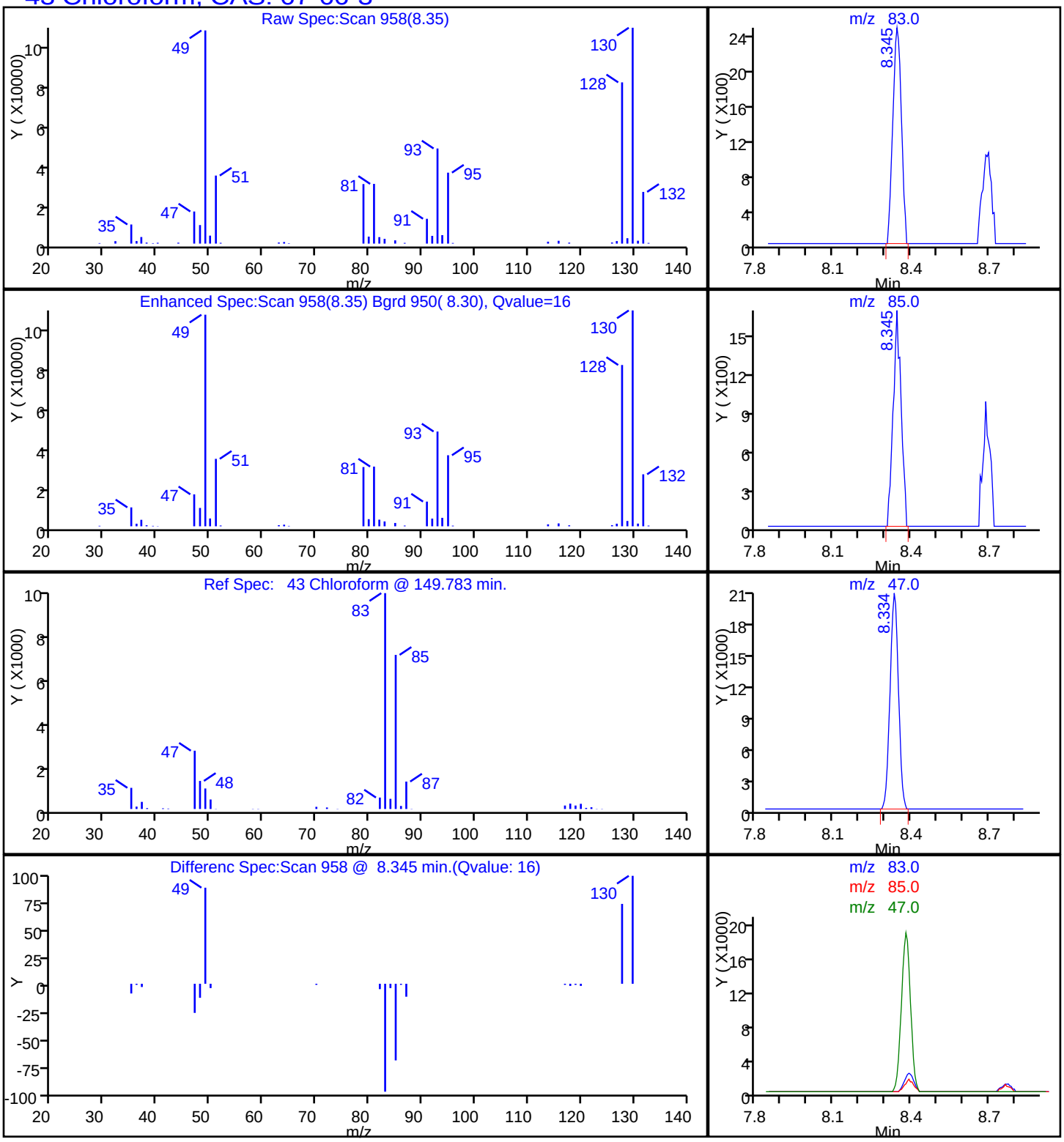
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



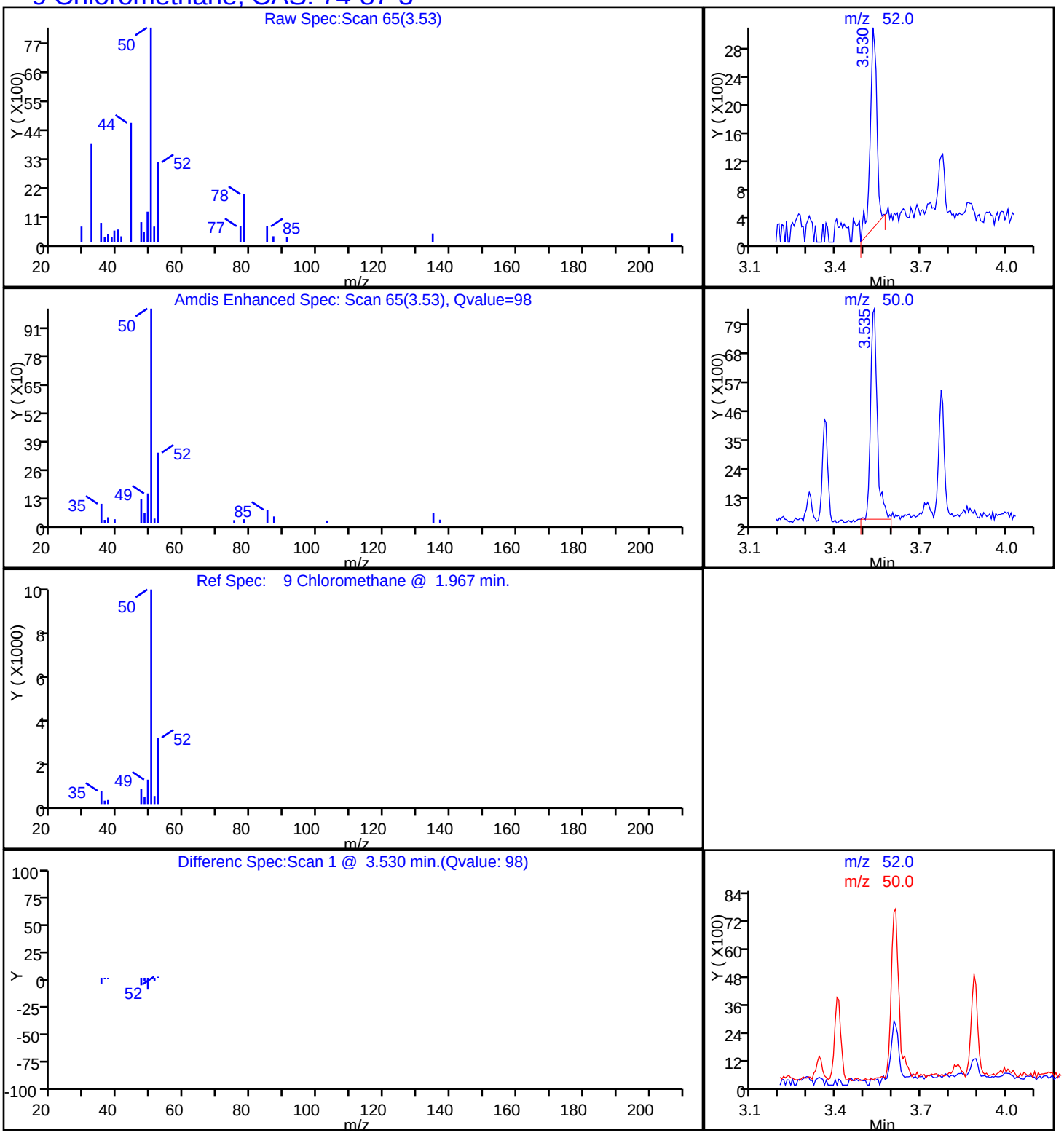
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

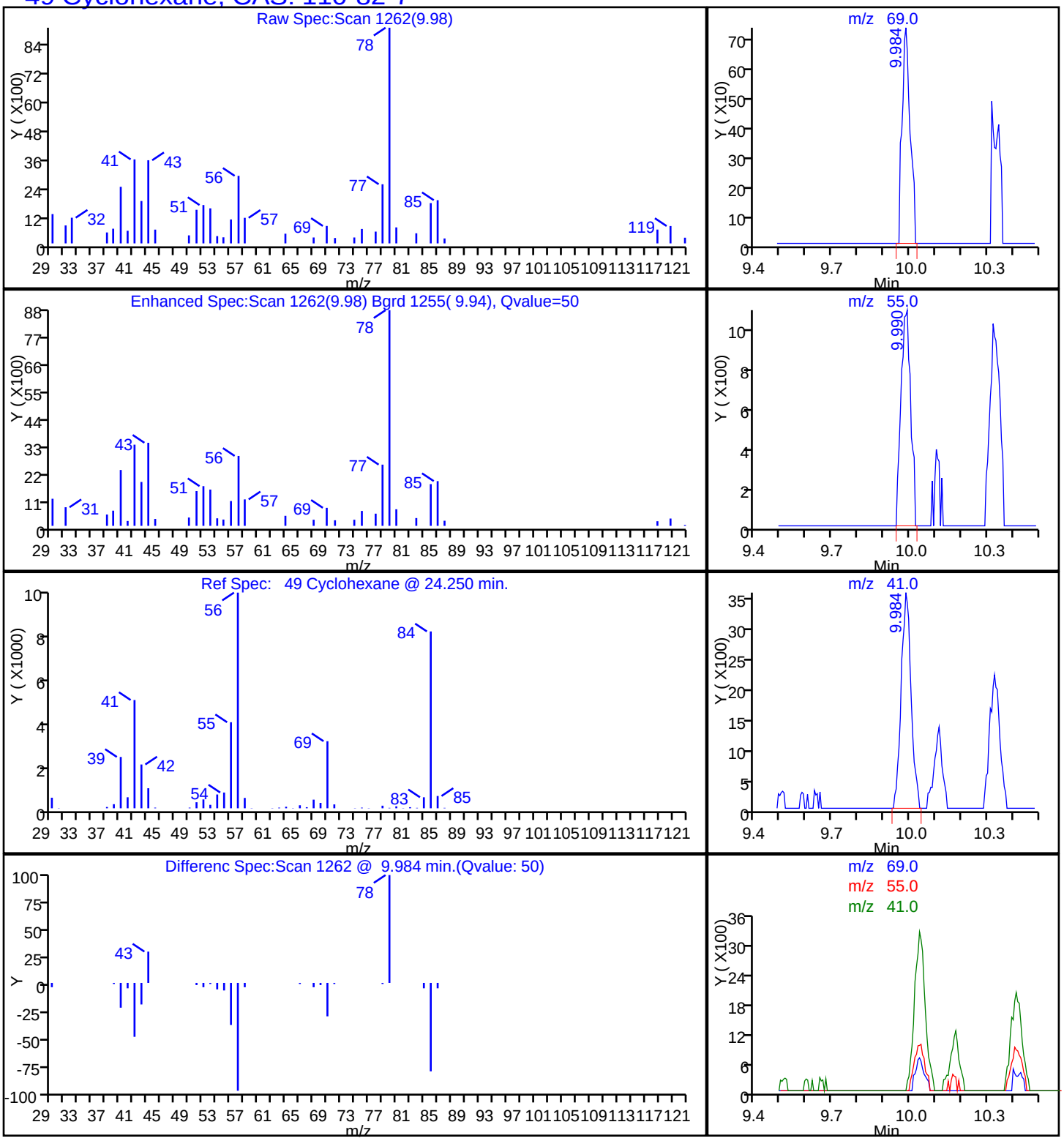


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

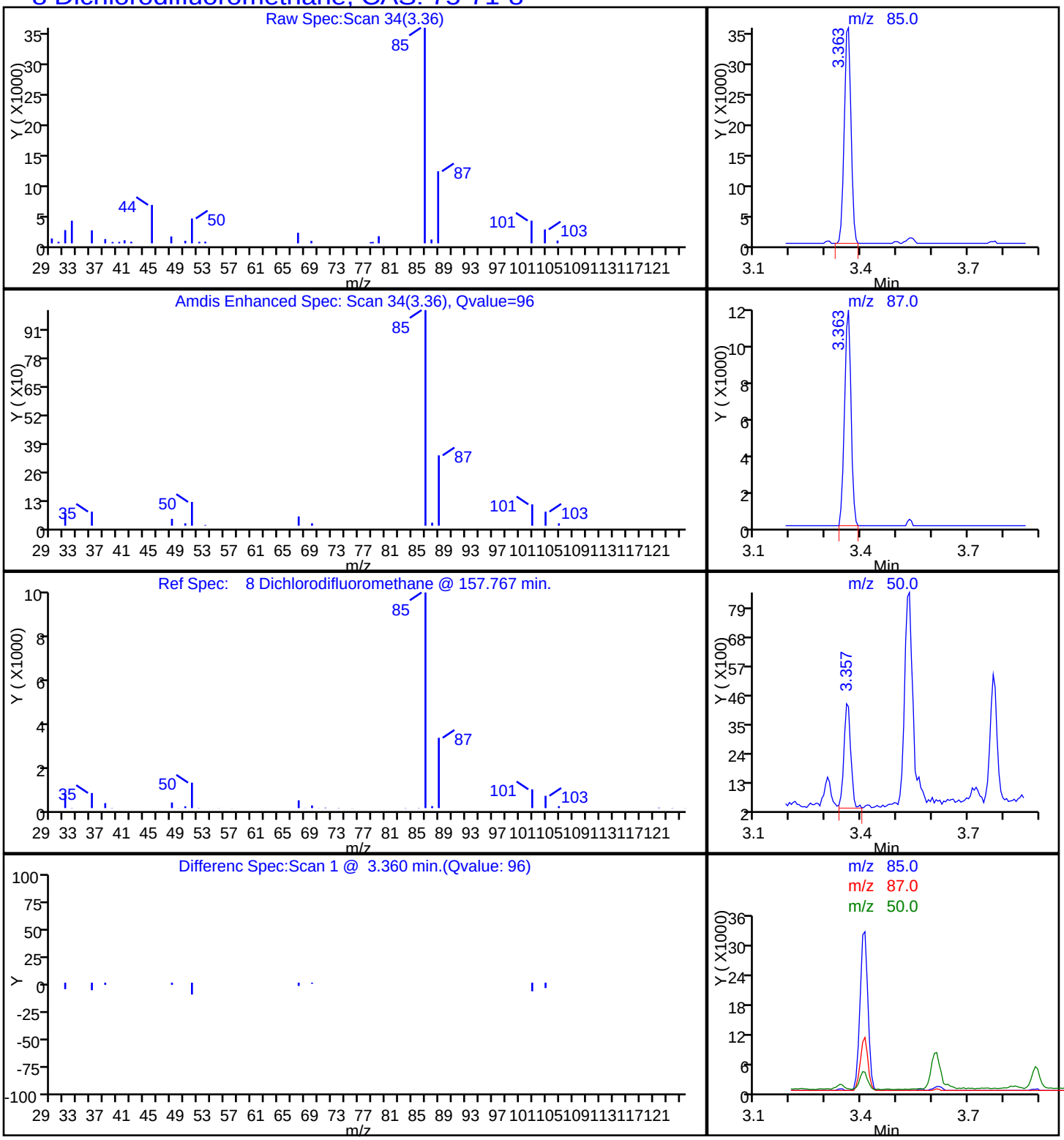
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



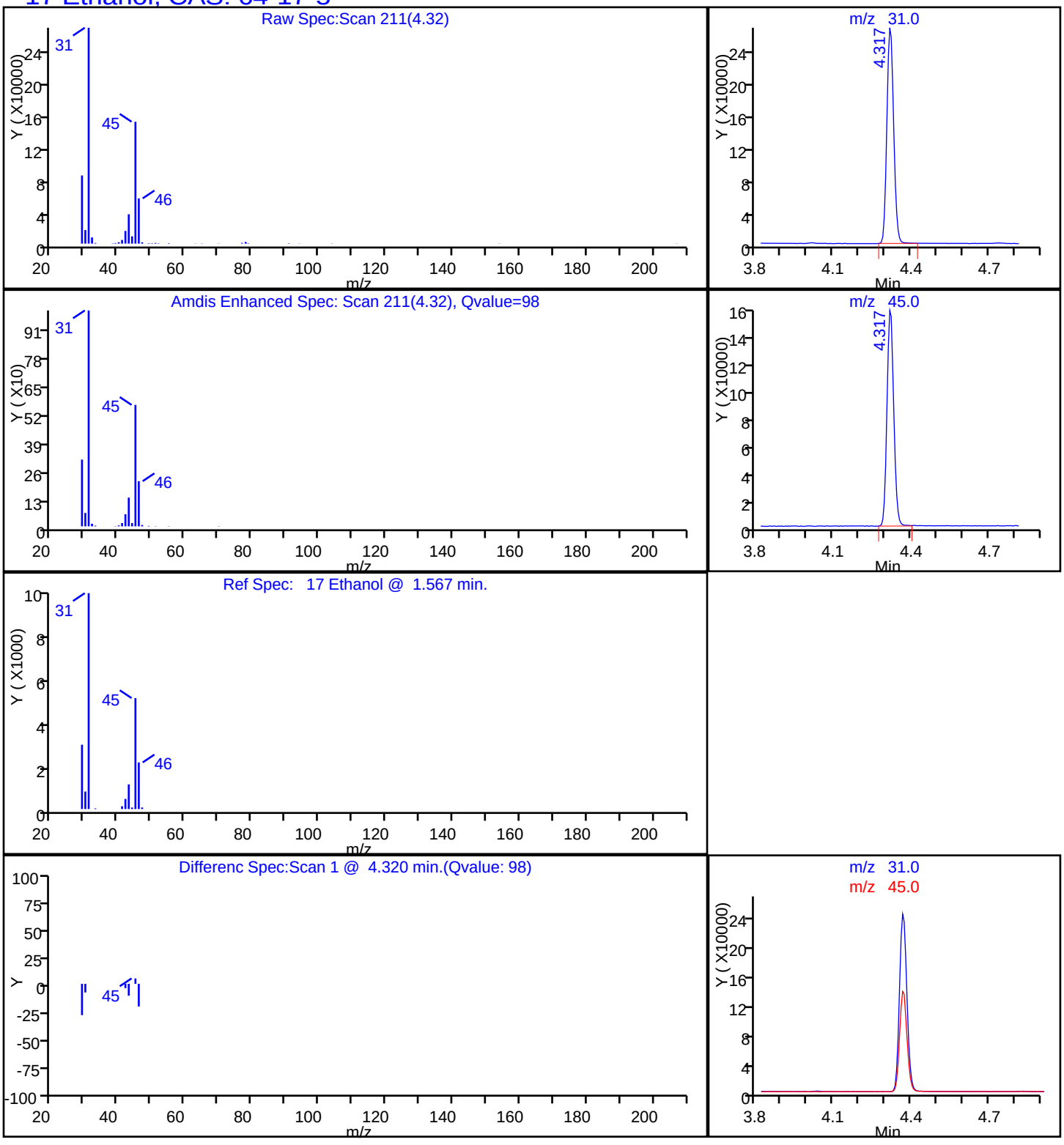
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date: 17-Mar-2014 23:15:30 Instrument ID: ME

Lims ID: 140-1054-A-6 Lab Sample ID: 140-1054-6

Client ID: PCV-IA2-B21

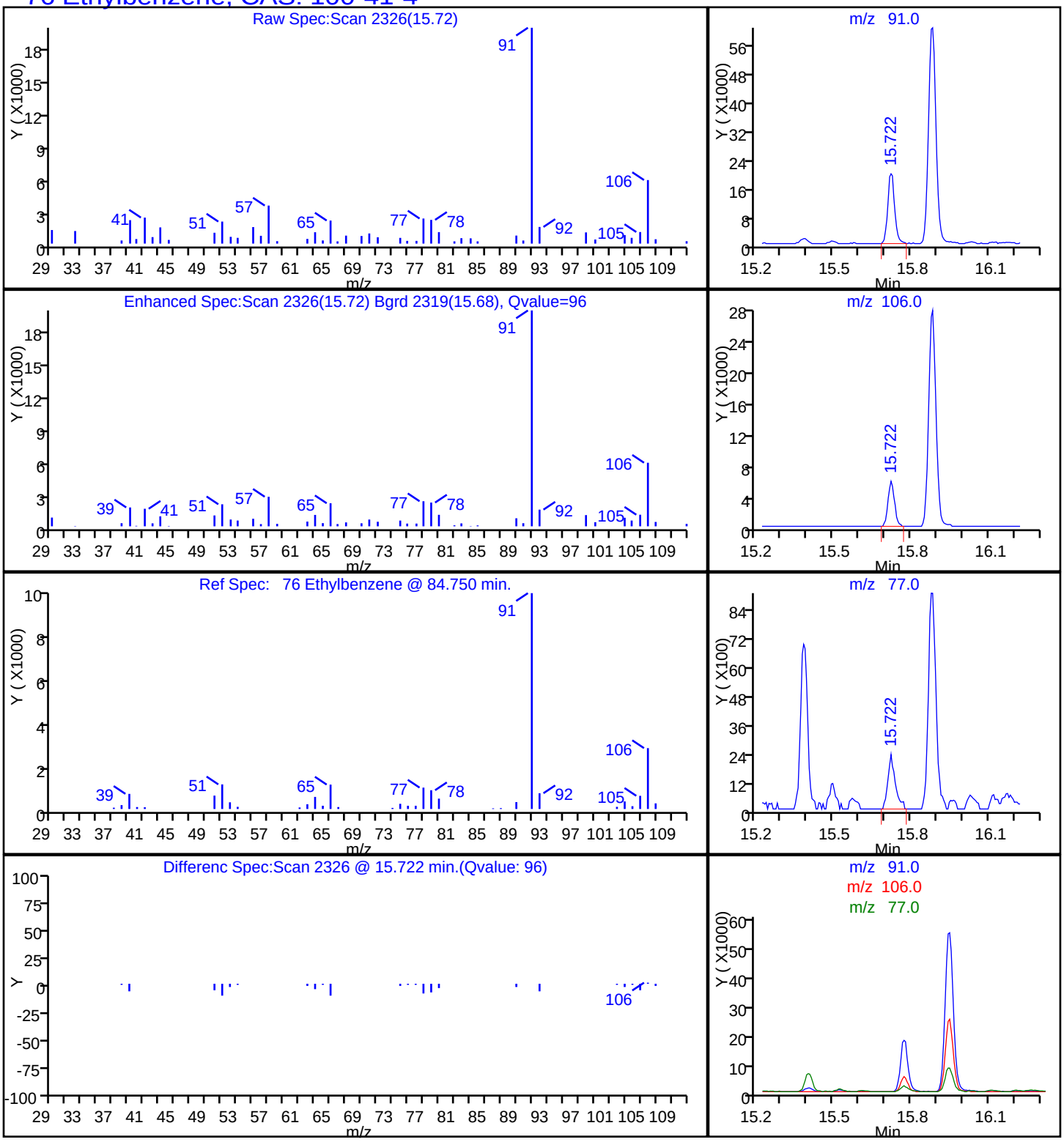
Operator ID: 060487 ALS Bottle#: 8 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

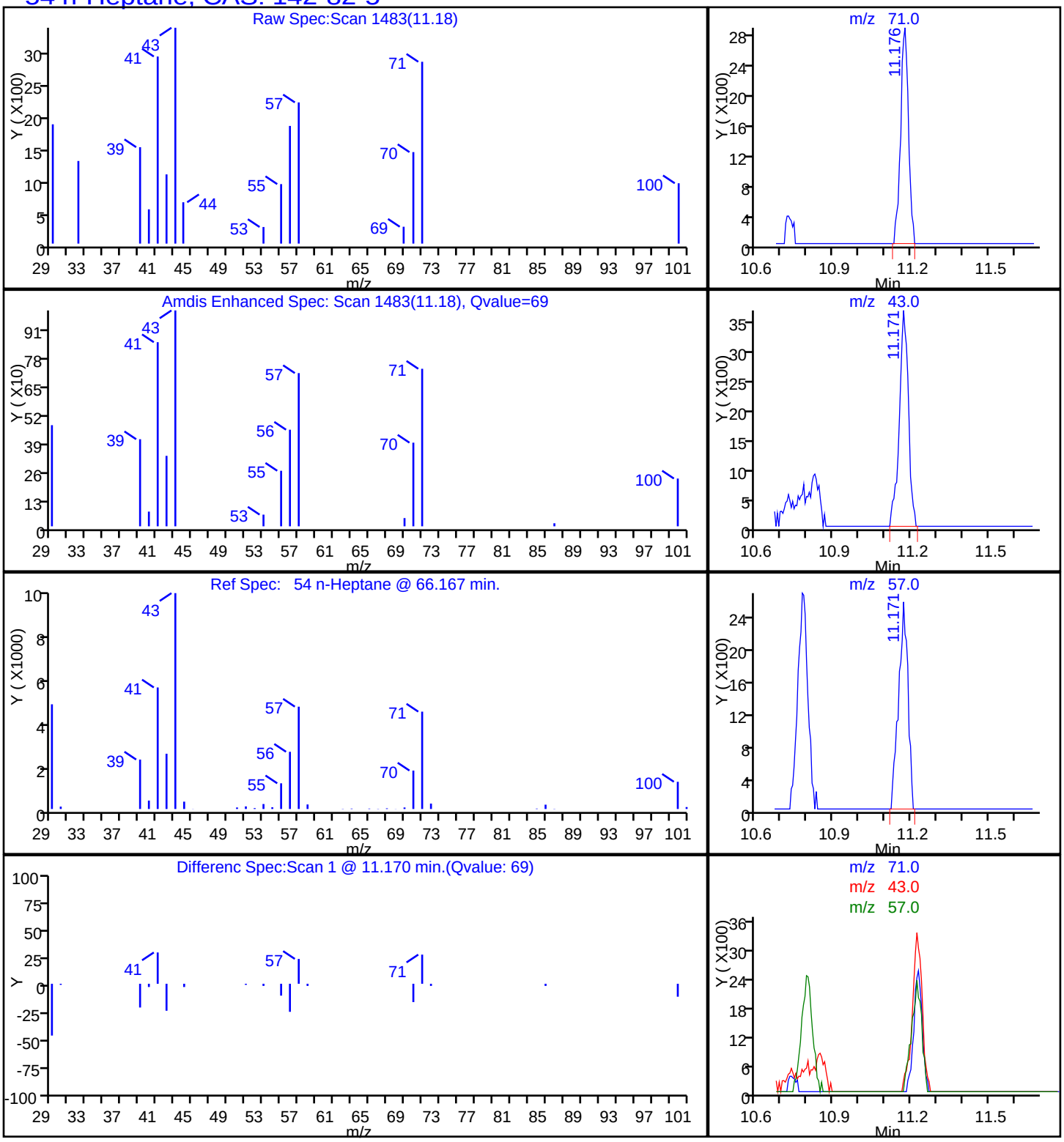


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

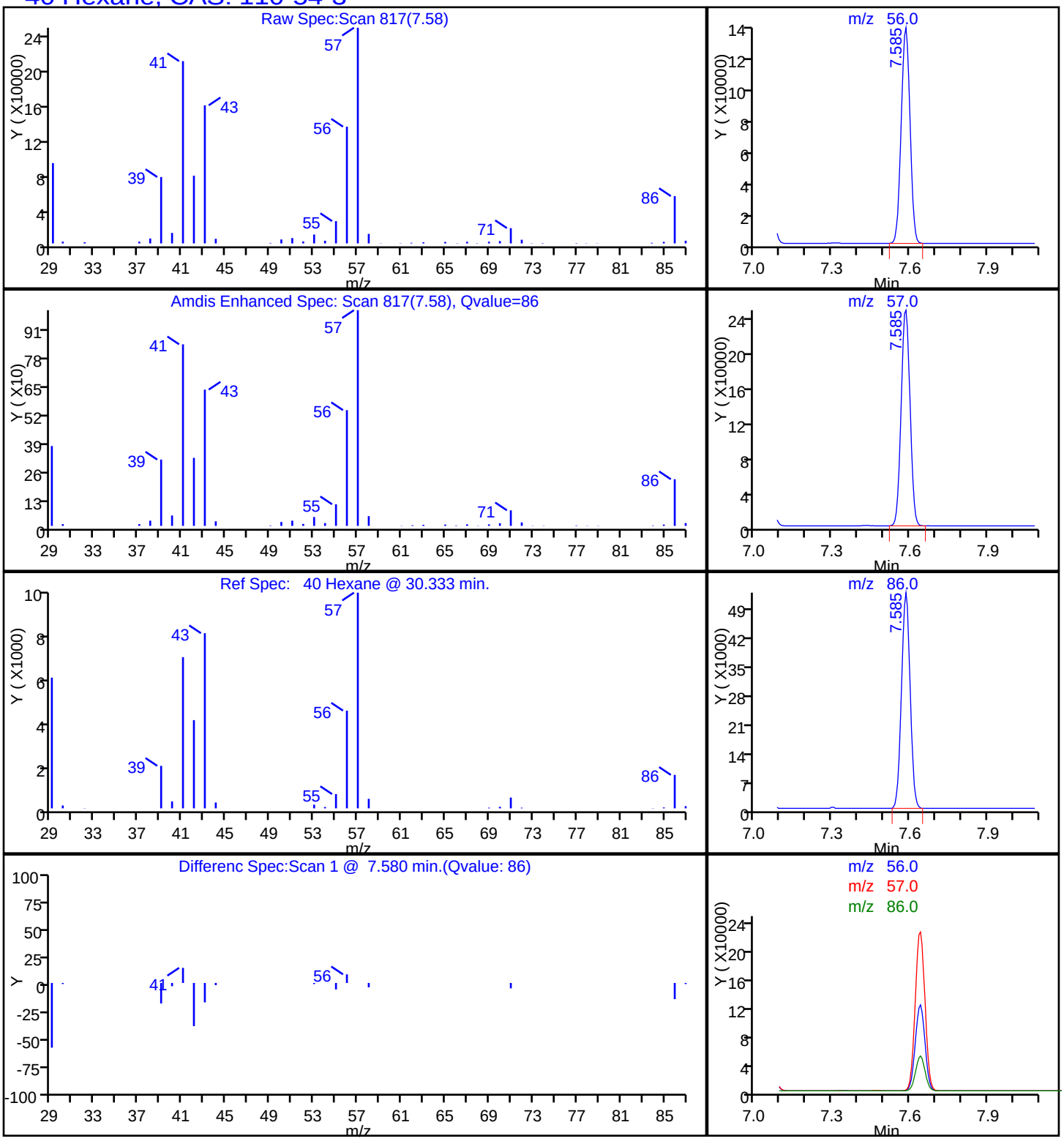


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



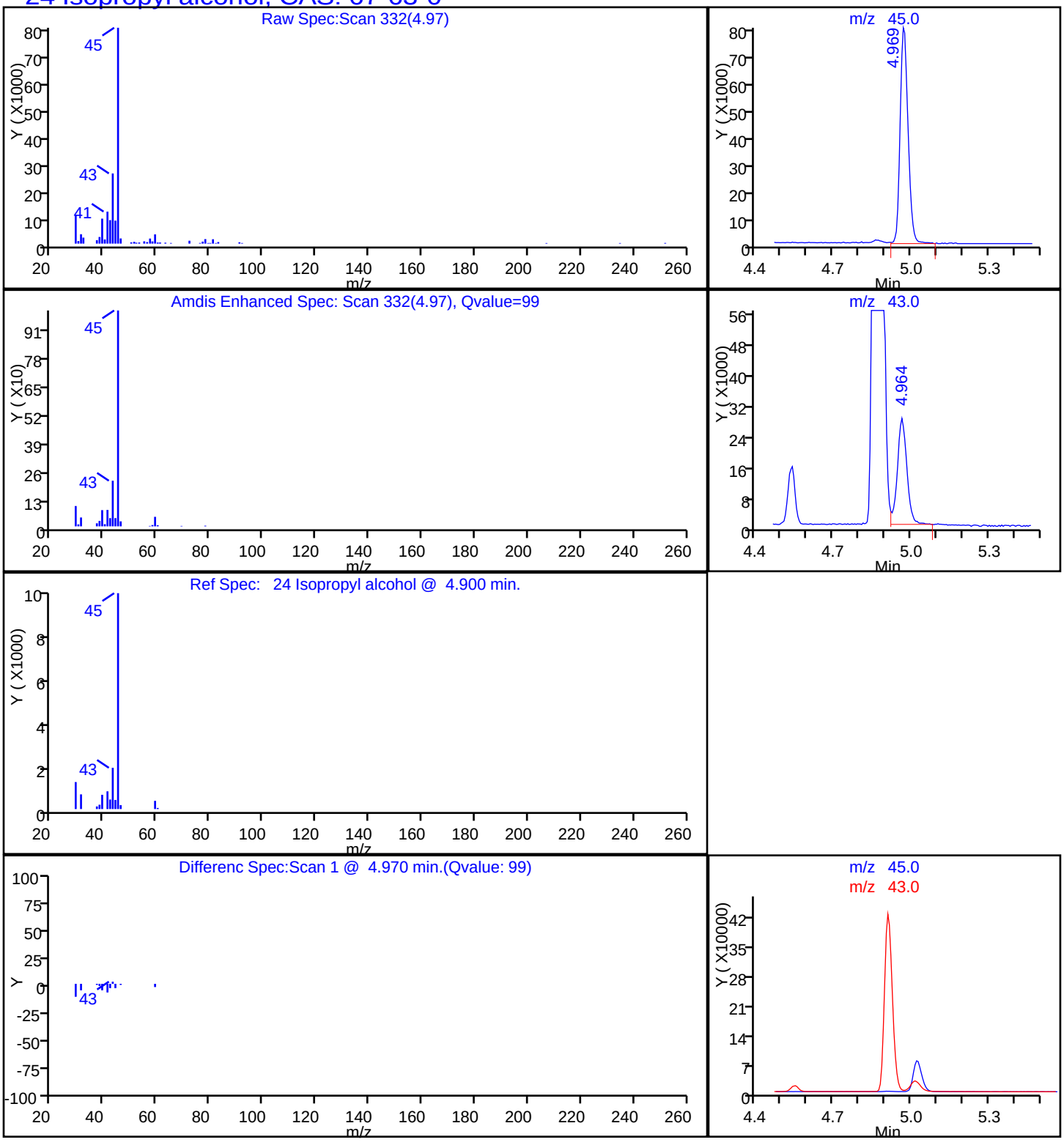
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

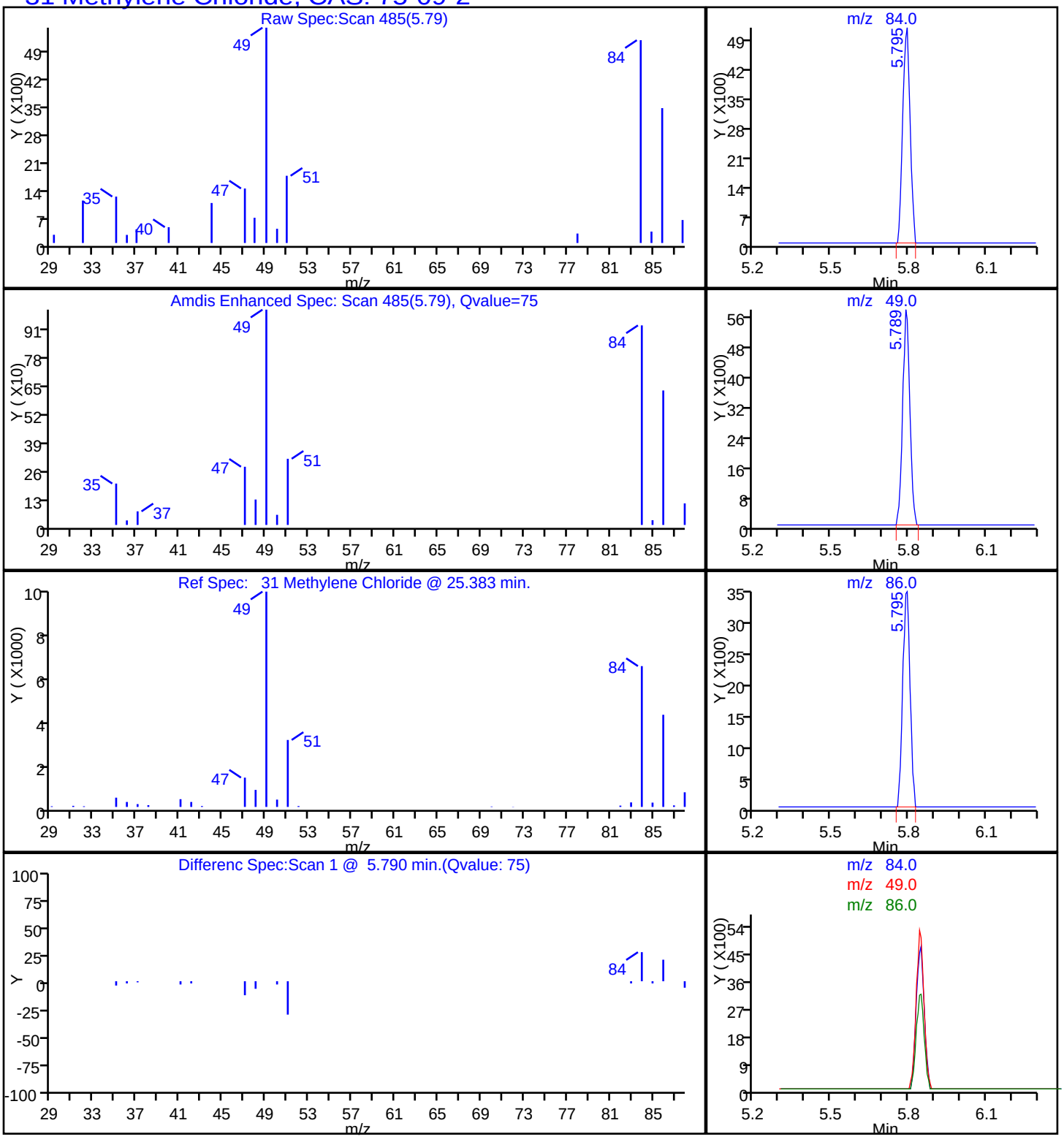


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

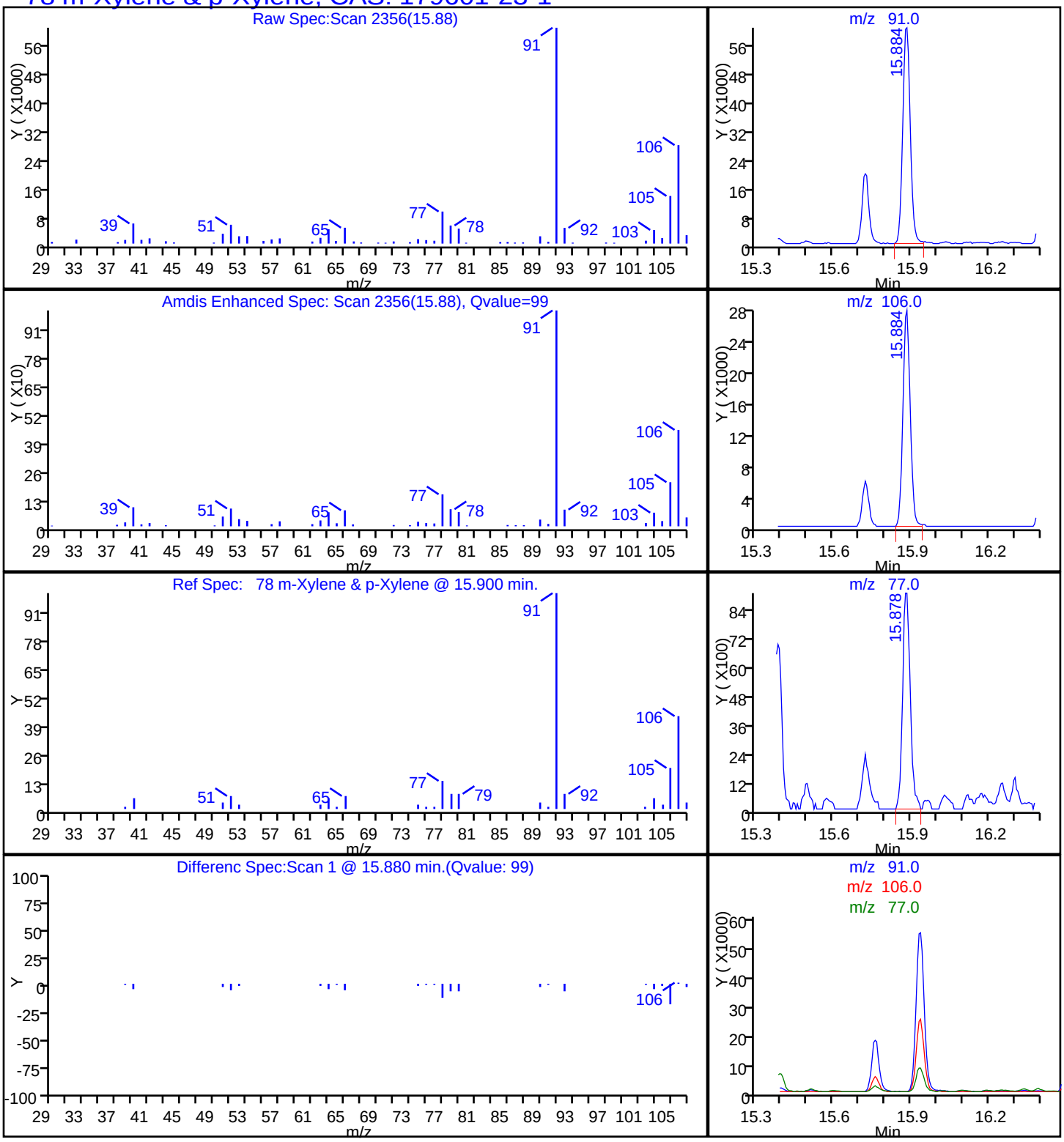
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

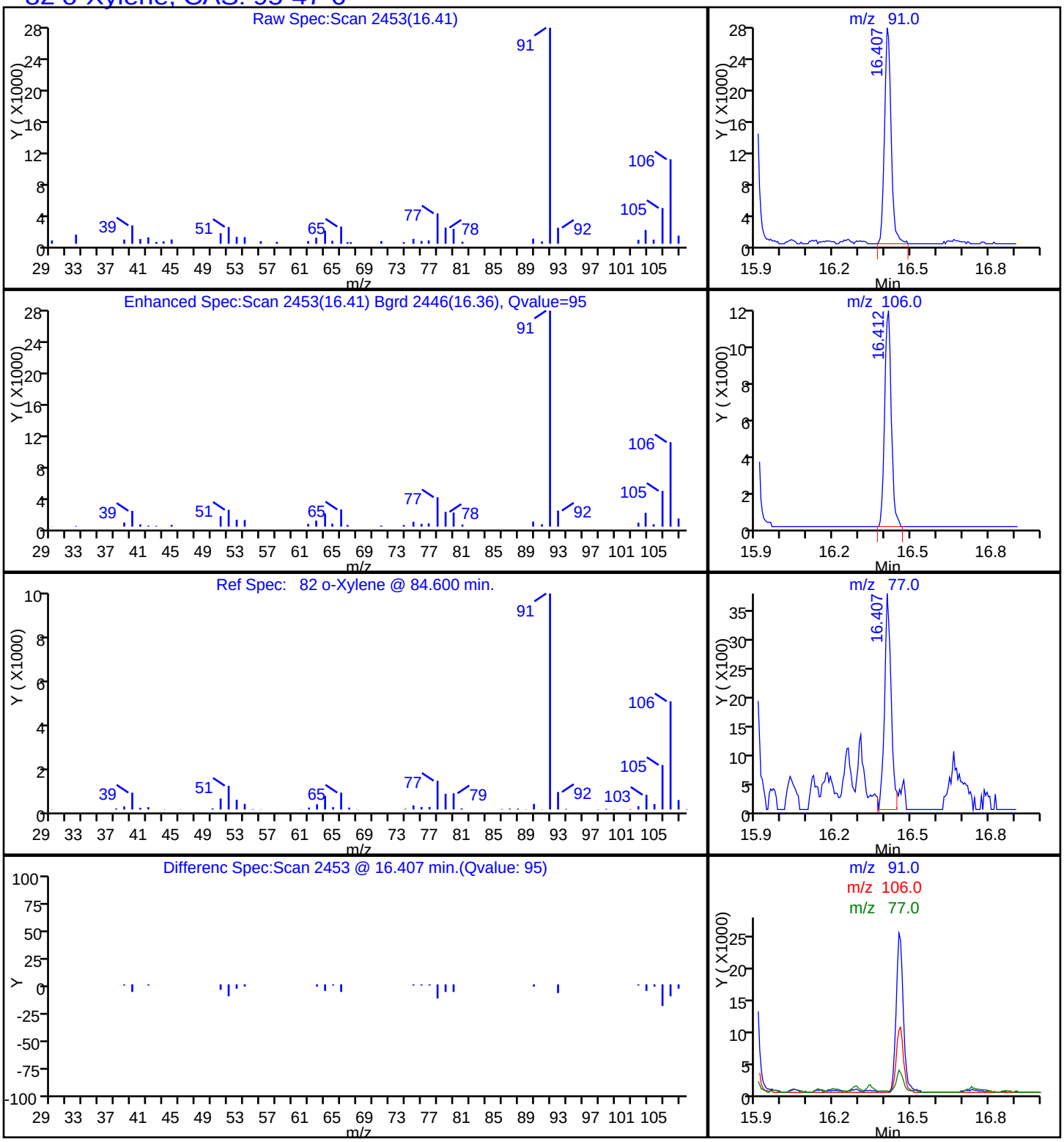


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

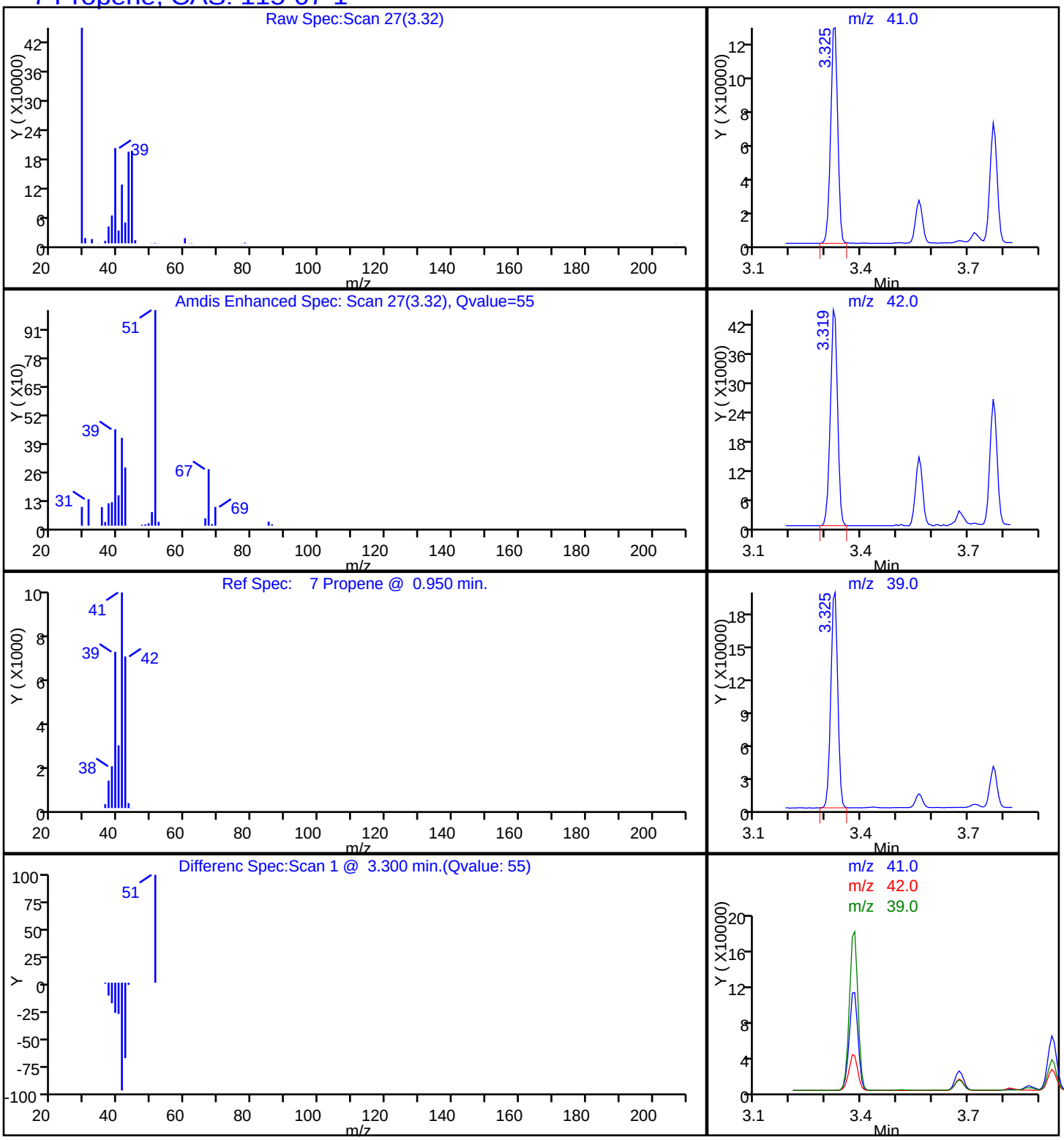
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D
Injection Date: 17-Mar-2014 23:15:30 Instrument ID: ME
Lims ID: 140-1054-A-6 Lab Sample ID: 140-1054-6
Client ID: PCV-IA2-B21
Operator ID: 060487 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



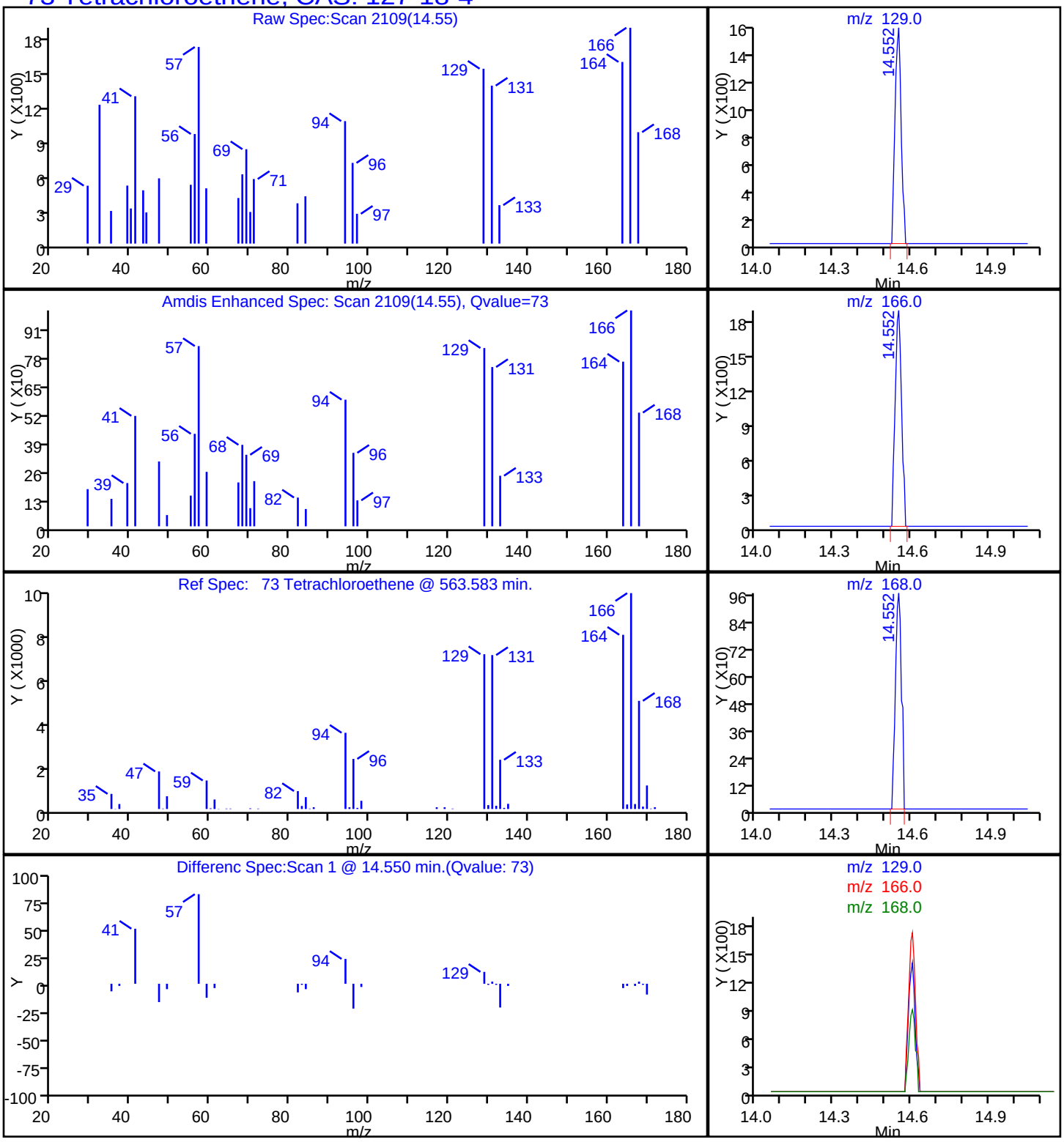
Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D

Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

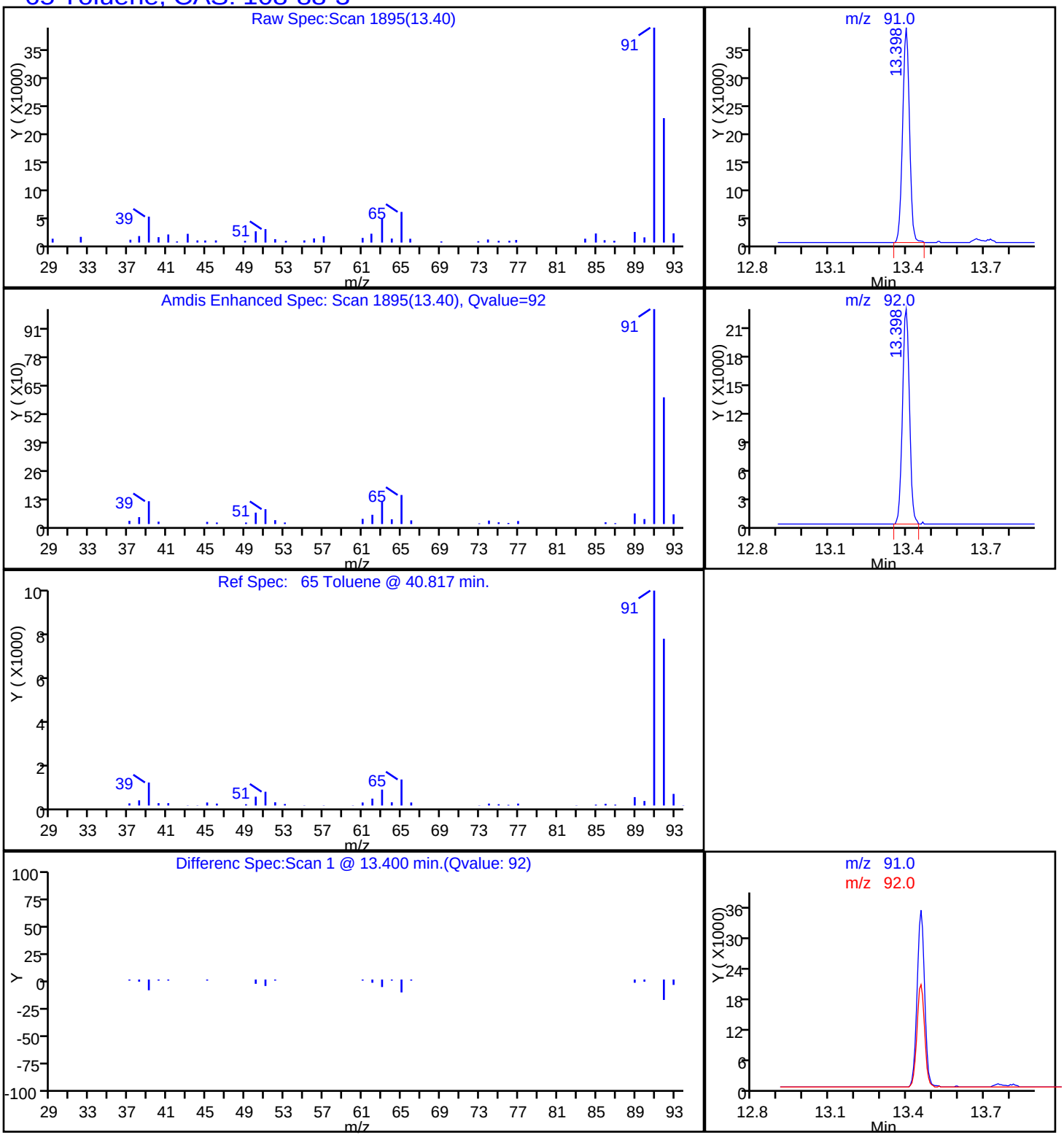
73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

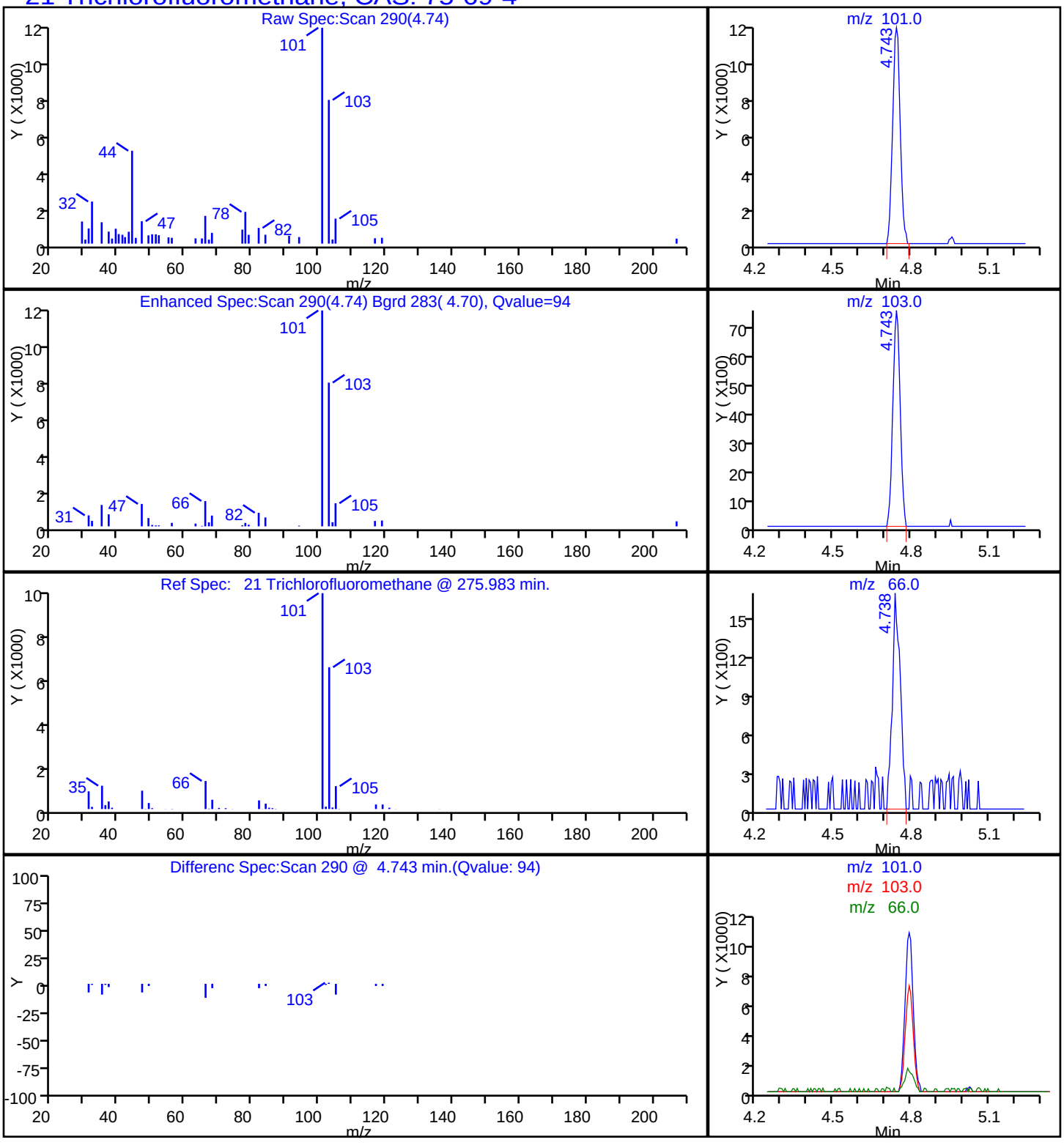


Report Date: 25-Mar-2014 14:36:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS108.D				
Injection Date:	17-Mar-2014 23:15:30	Instrument ID:	ME		
Lims ID:	140-1054-A-6	Lab Sample ID:	140-1054-6		
Client ID:	PCV-IA2-B21				
Operator ID:	060487	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

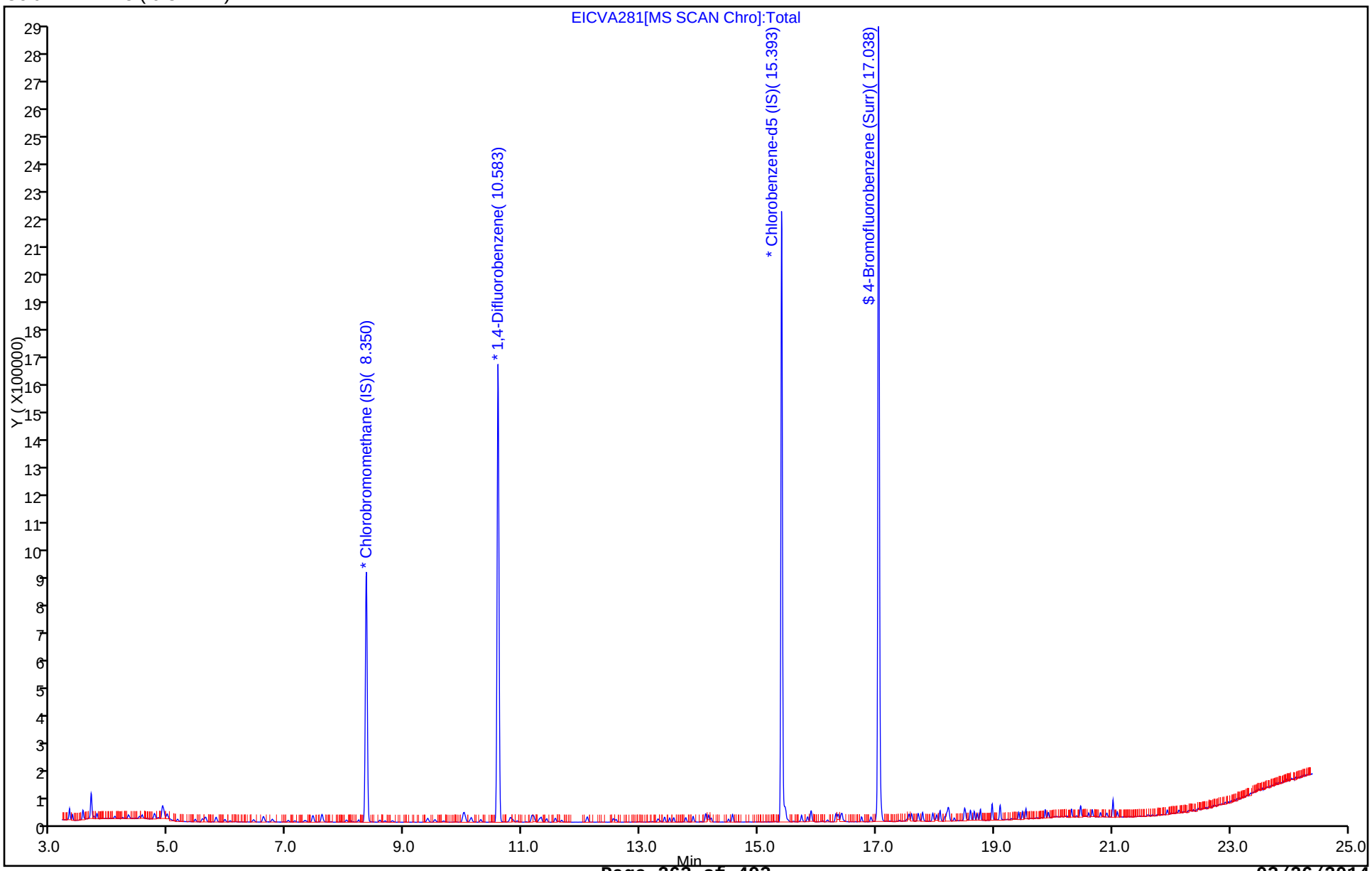
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

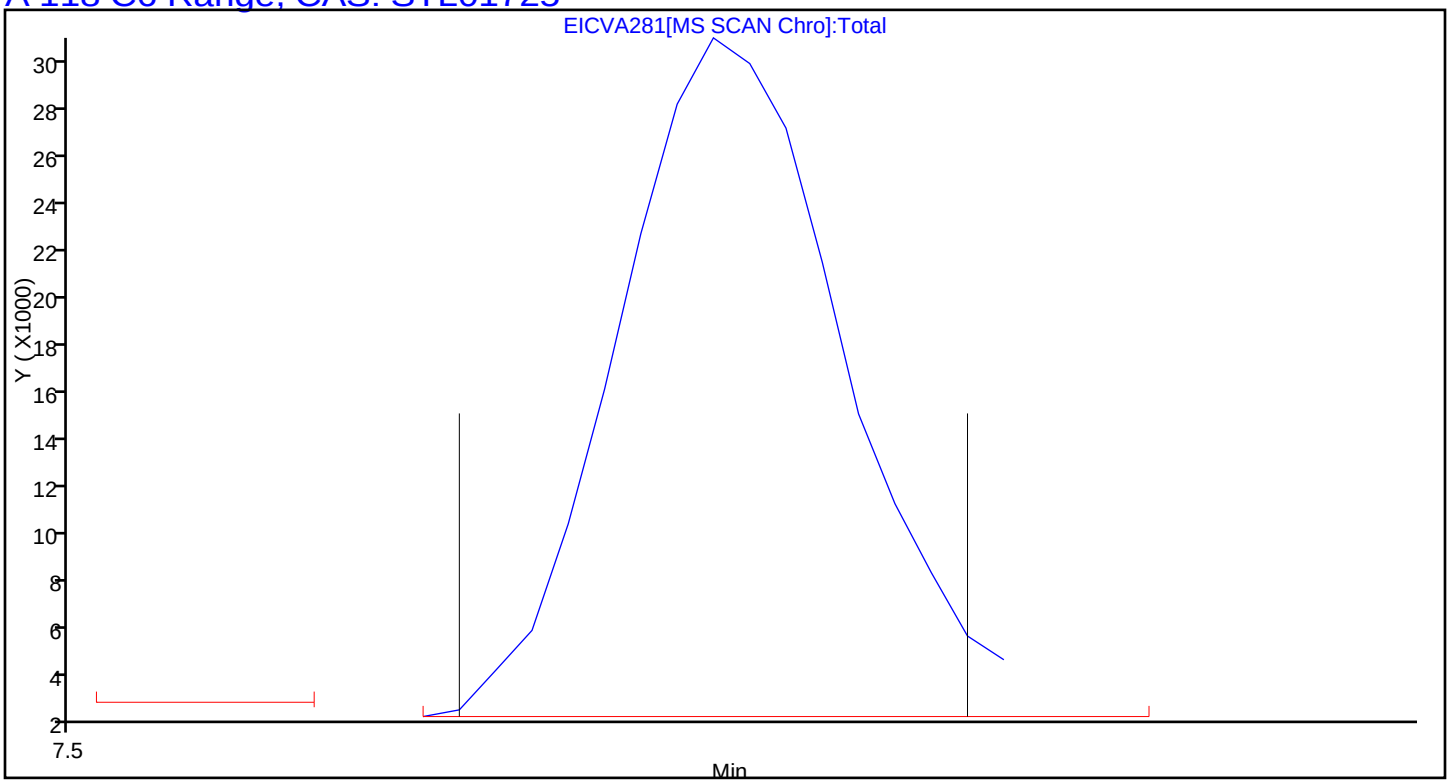


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

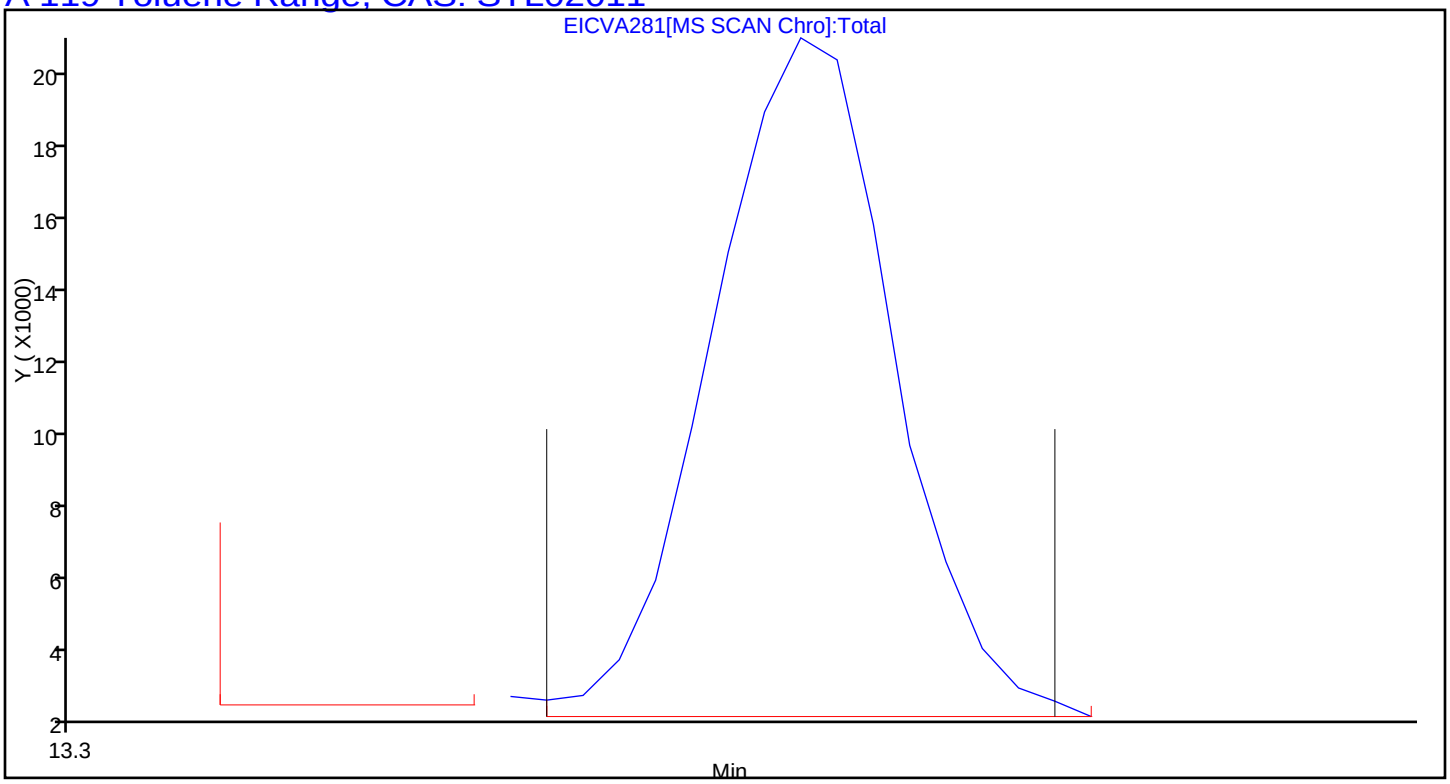


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

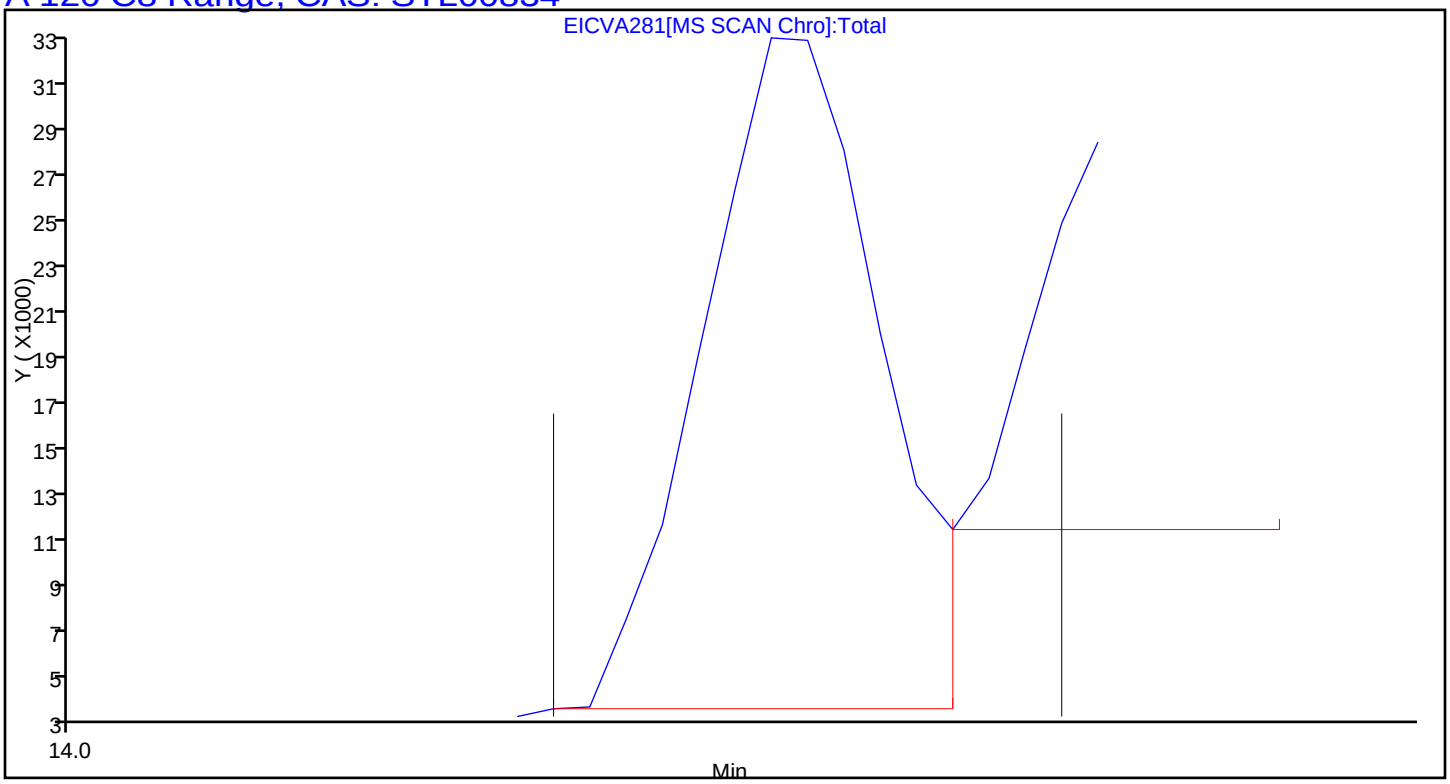


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

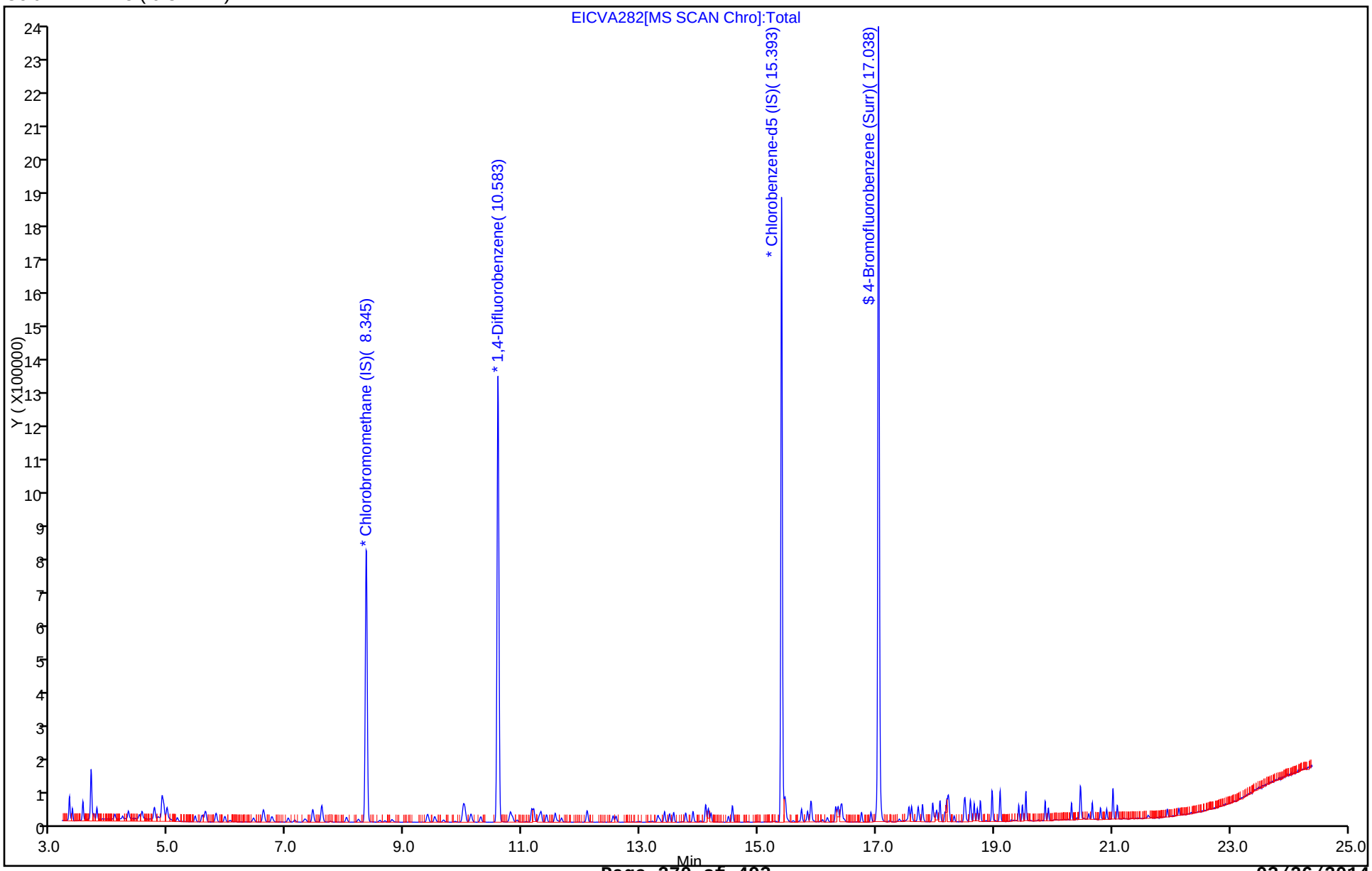
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

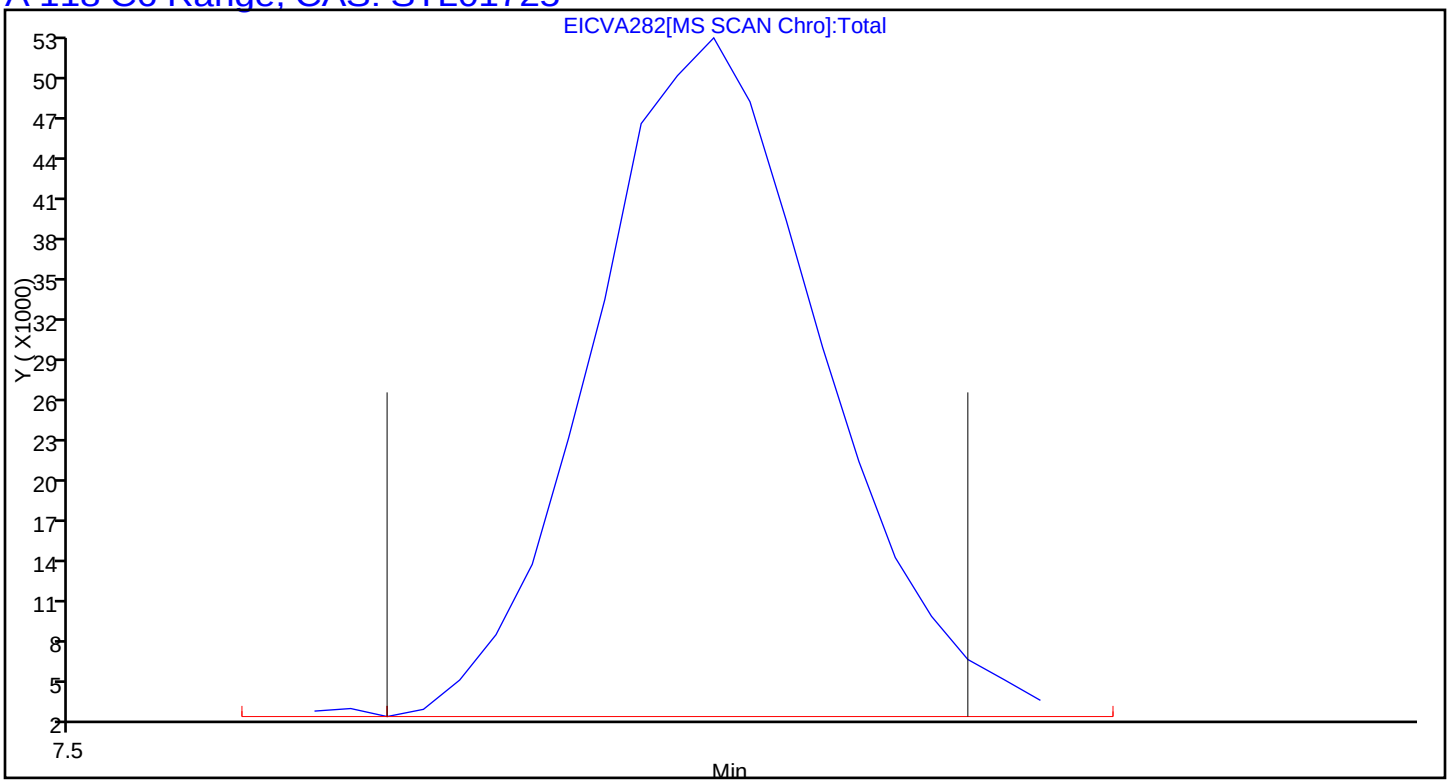


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

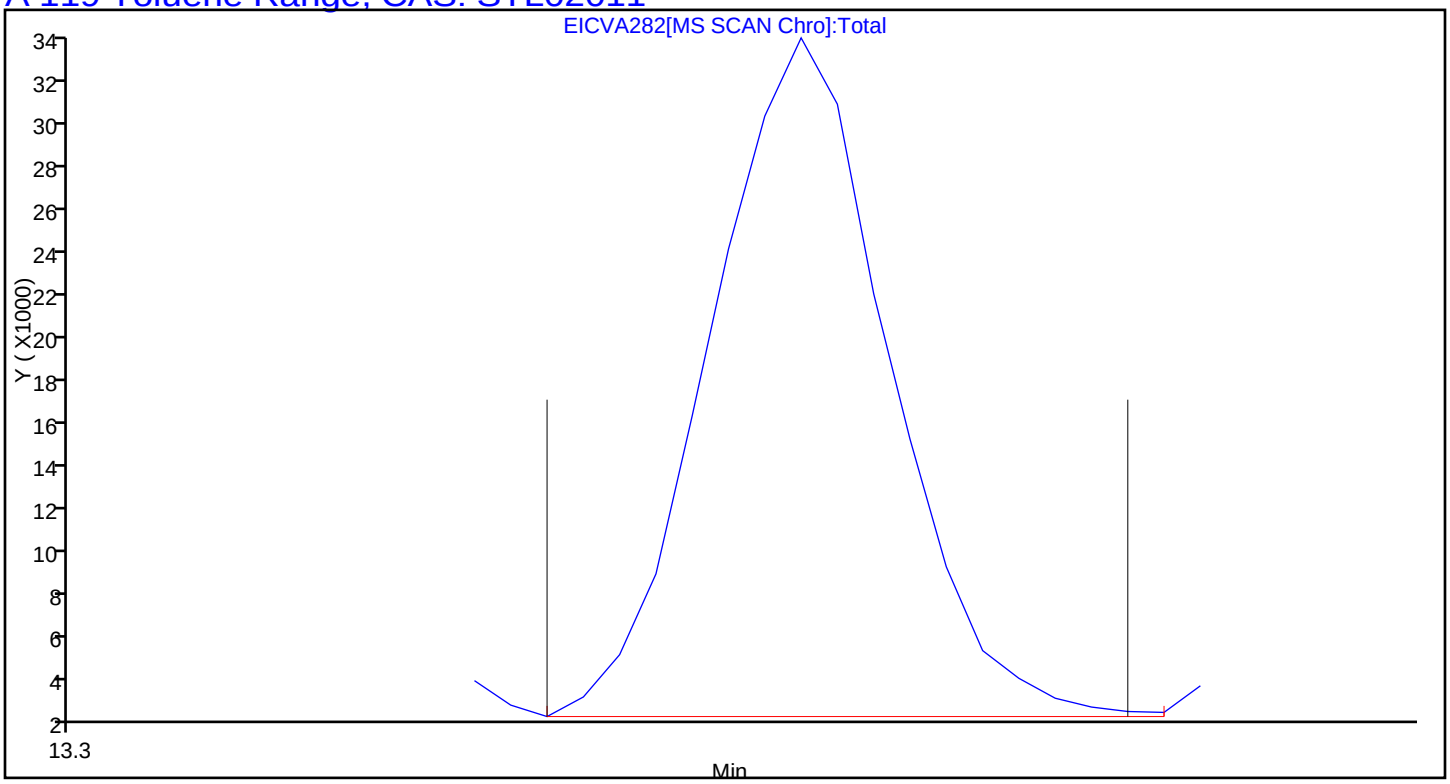


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

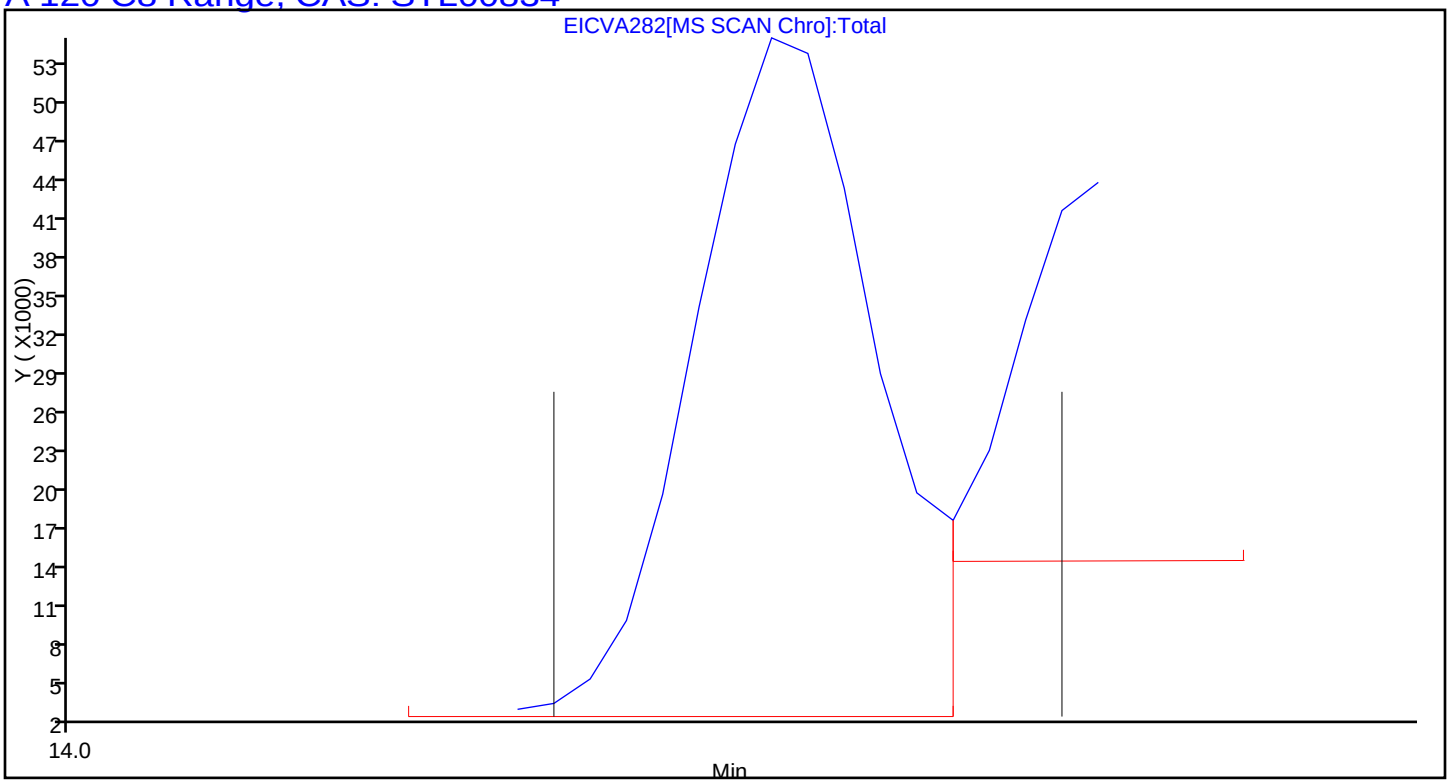


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

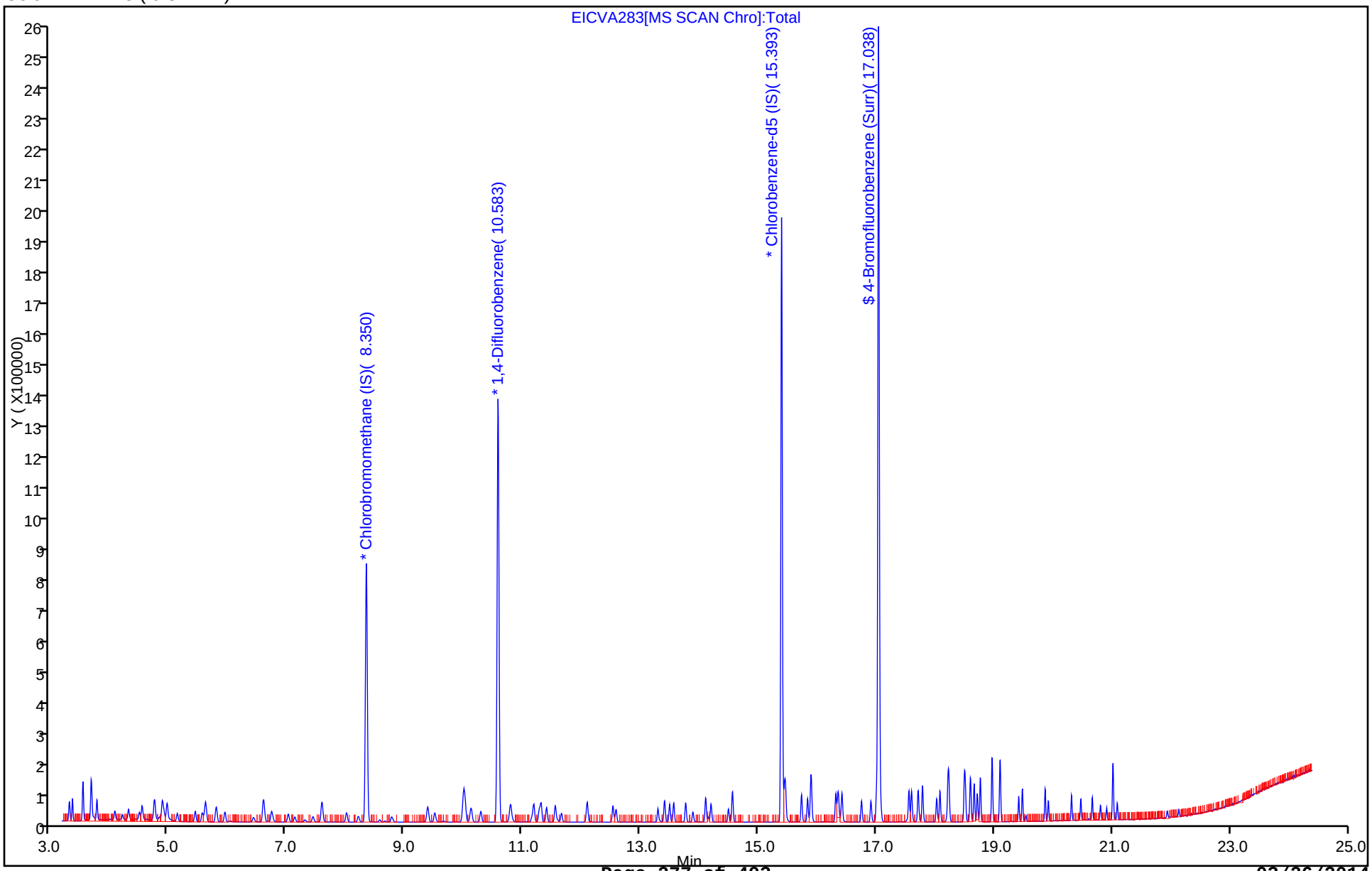
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

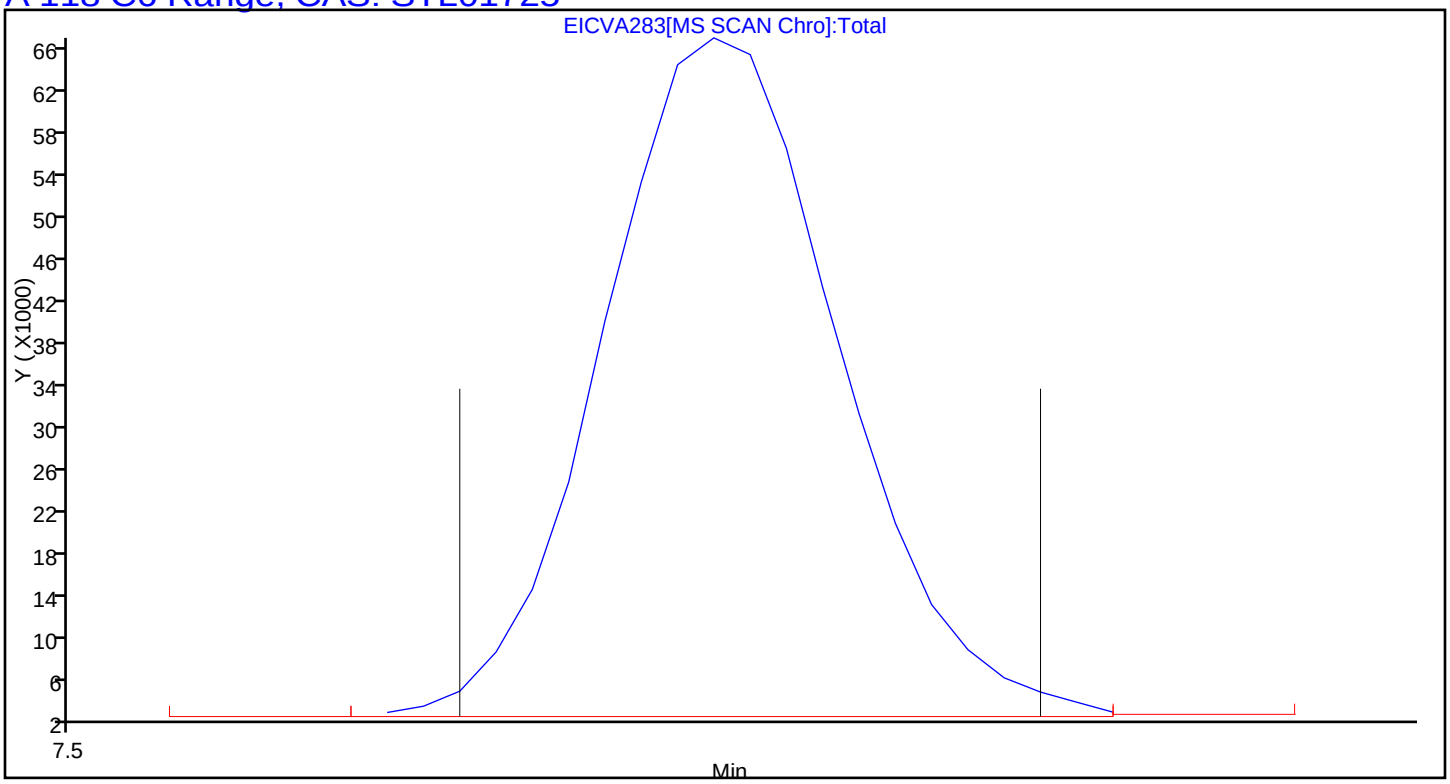


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

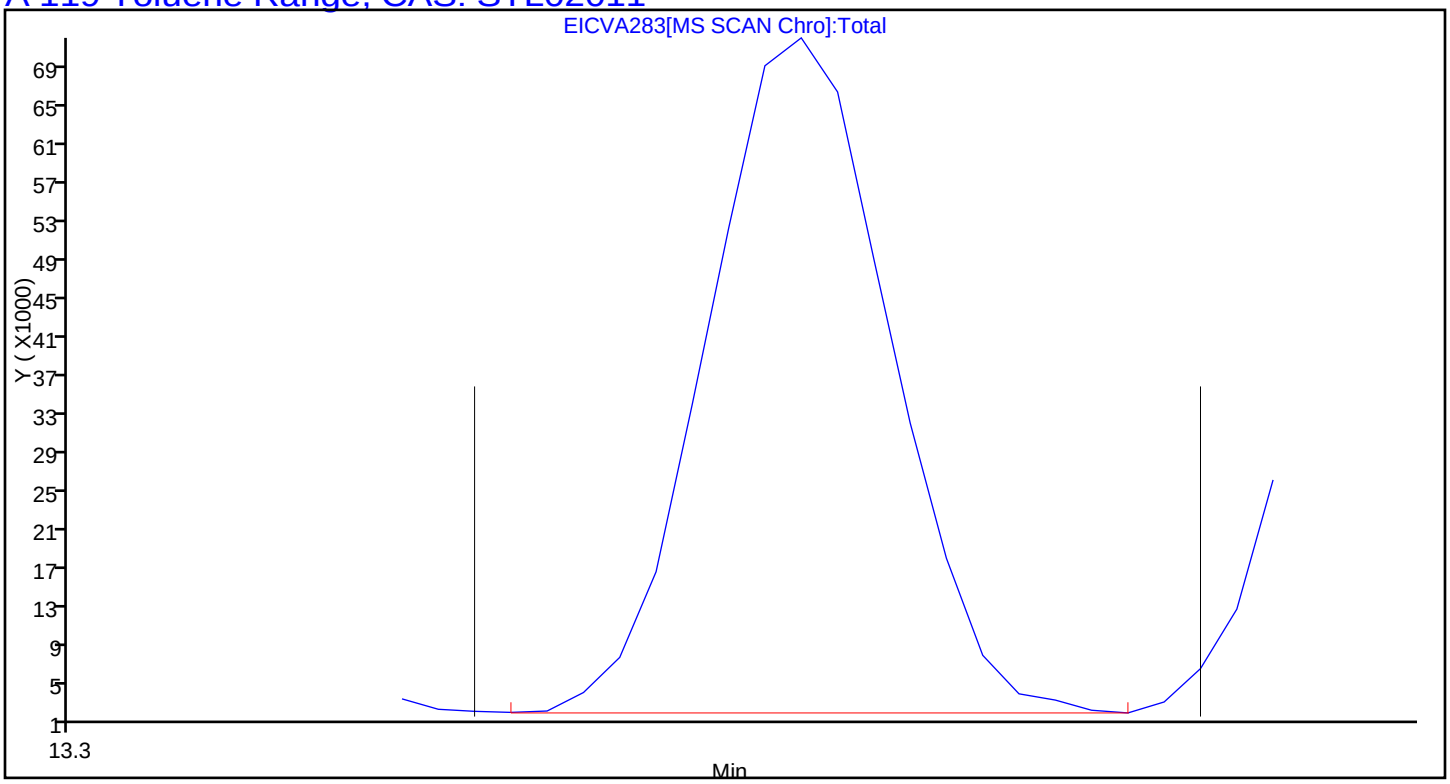


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

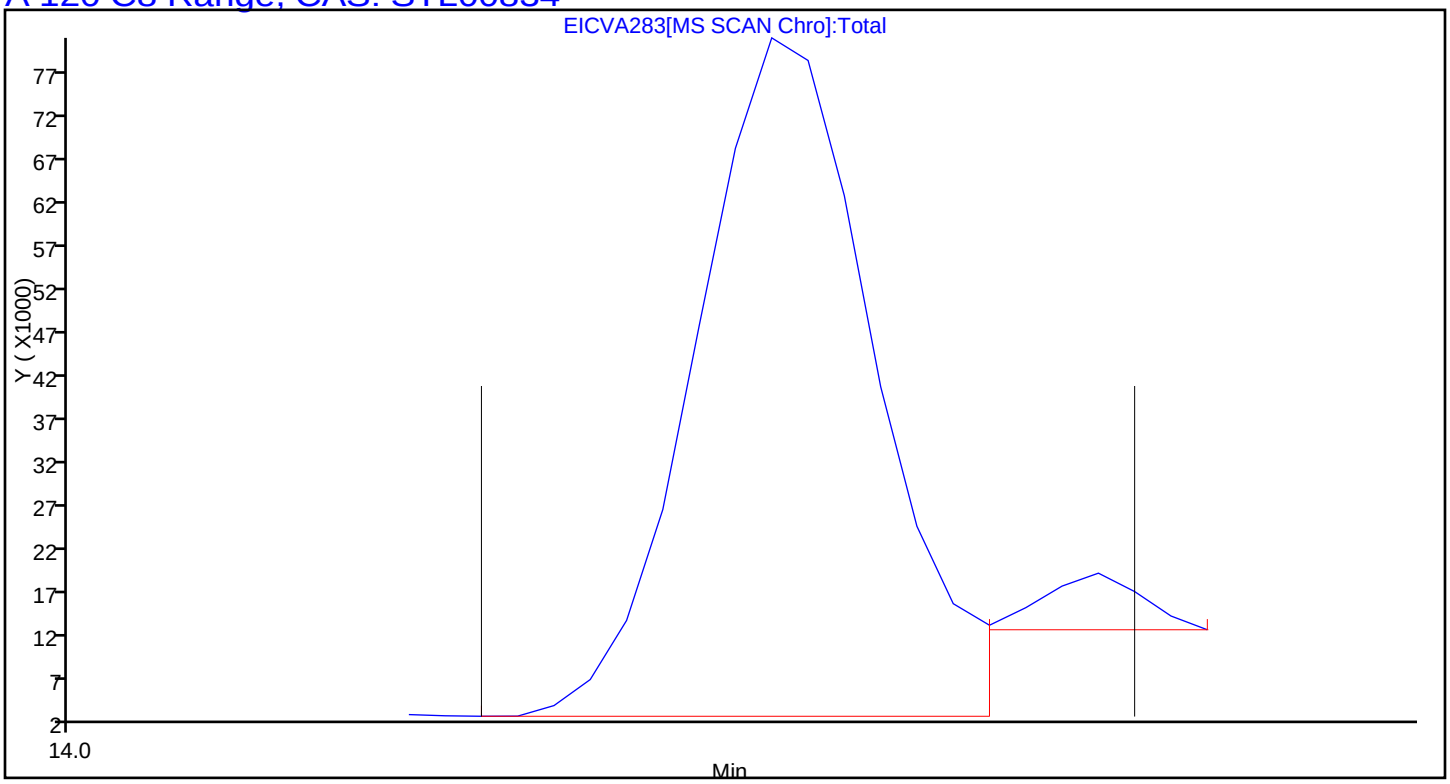


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

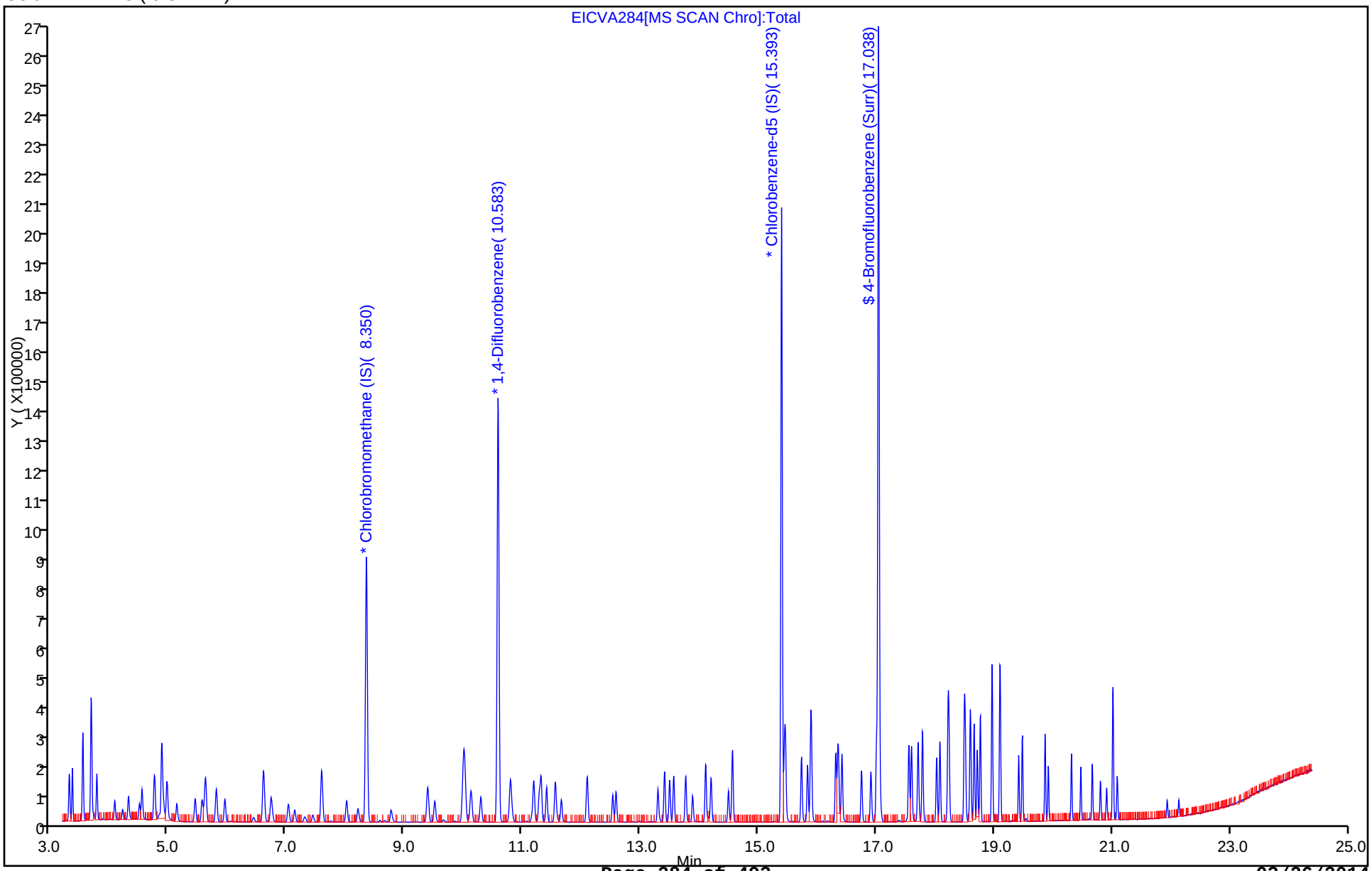
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

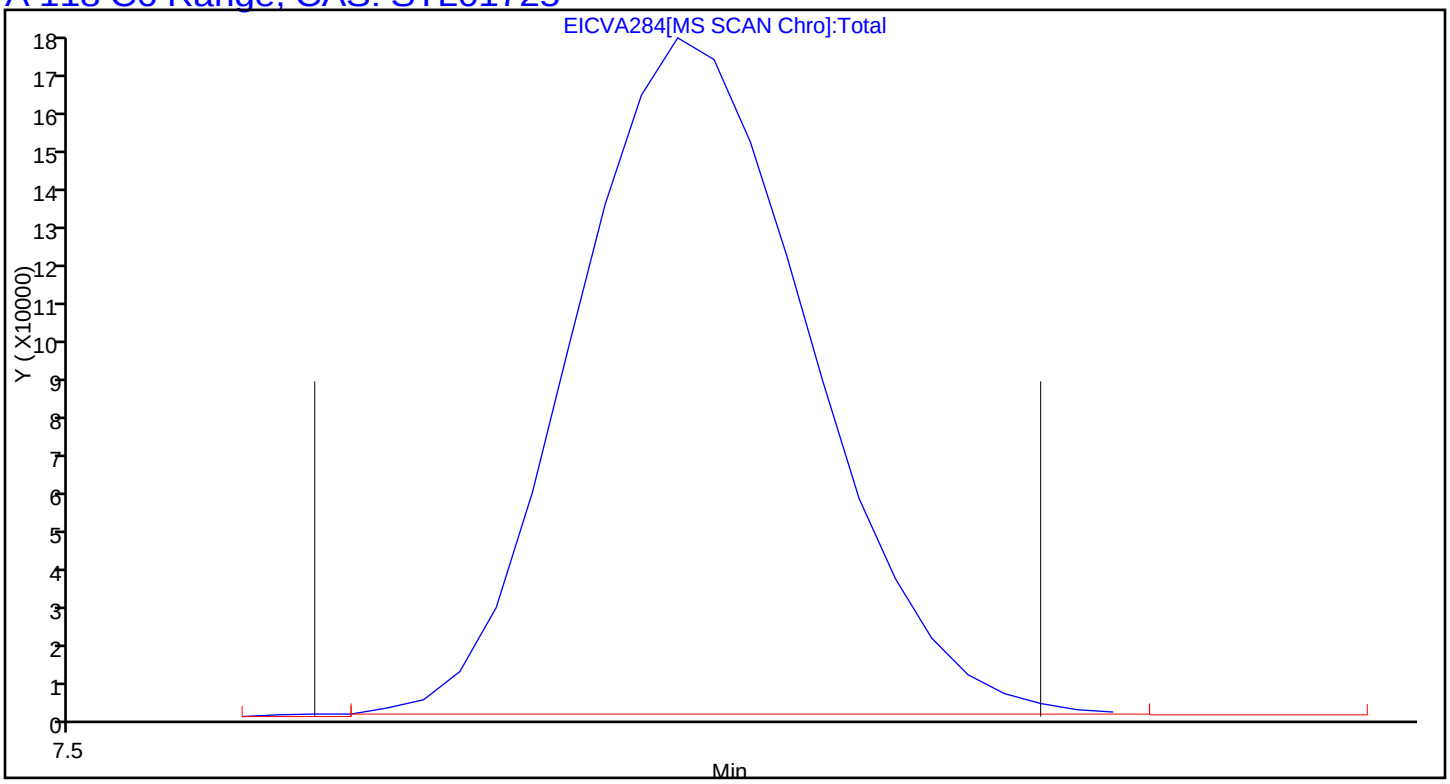


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

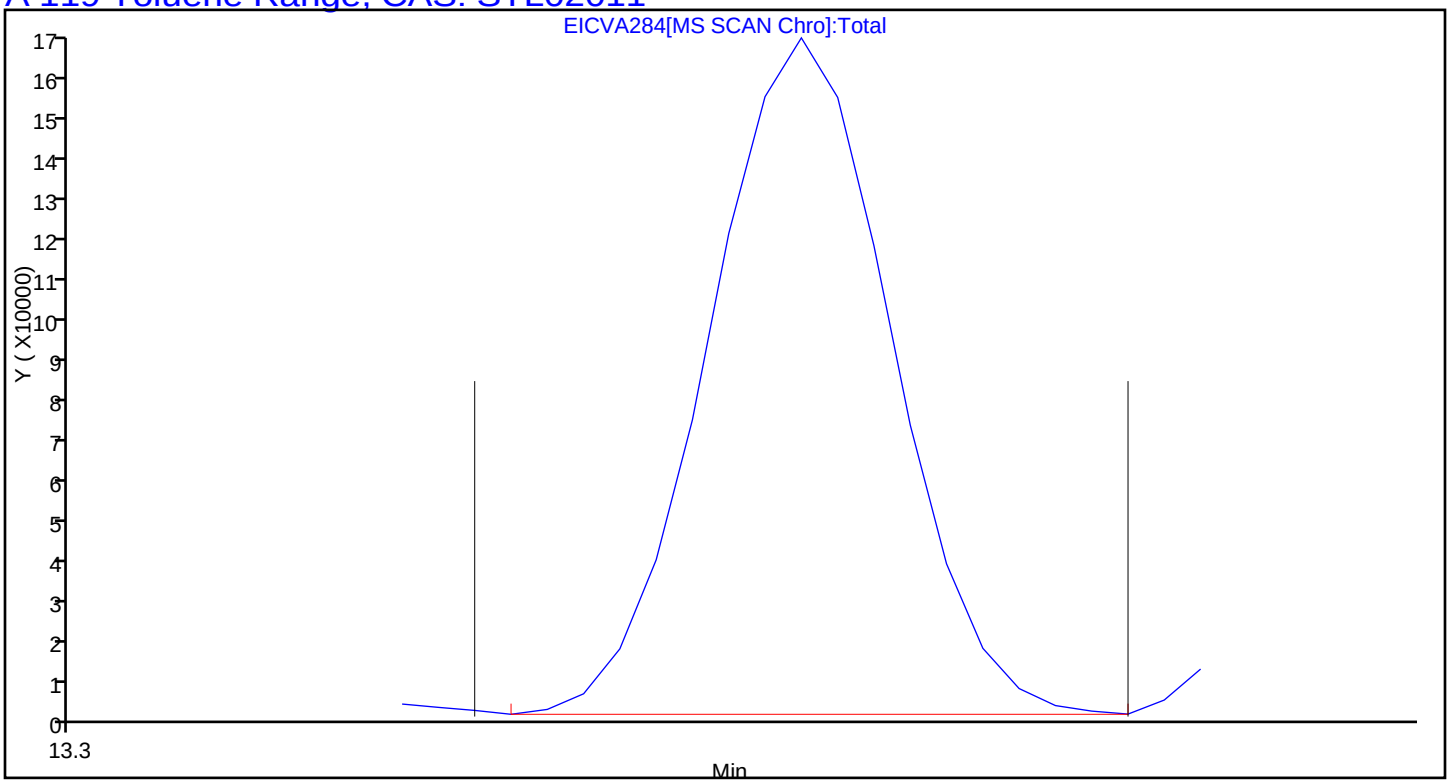


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

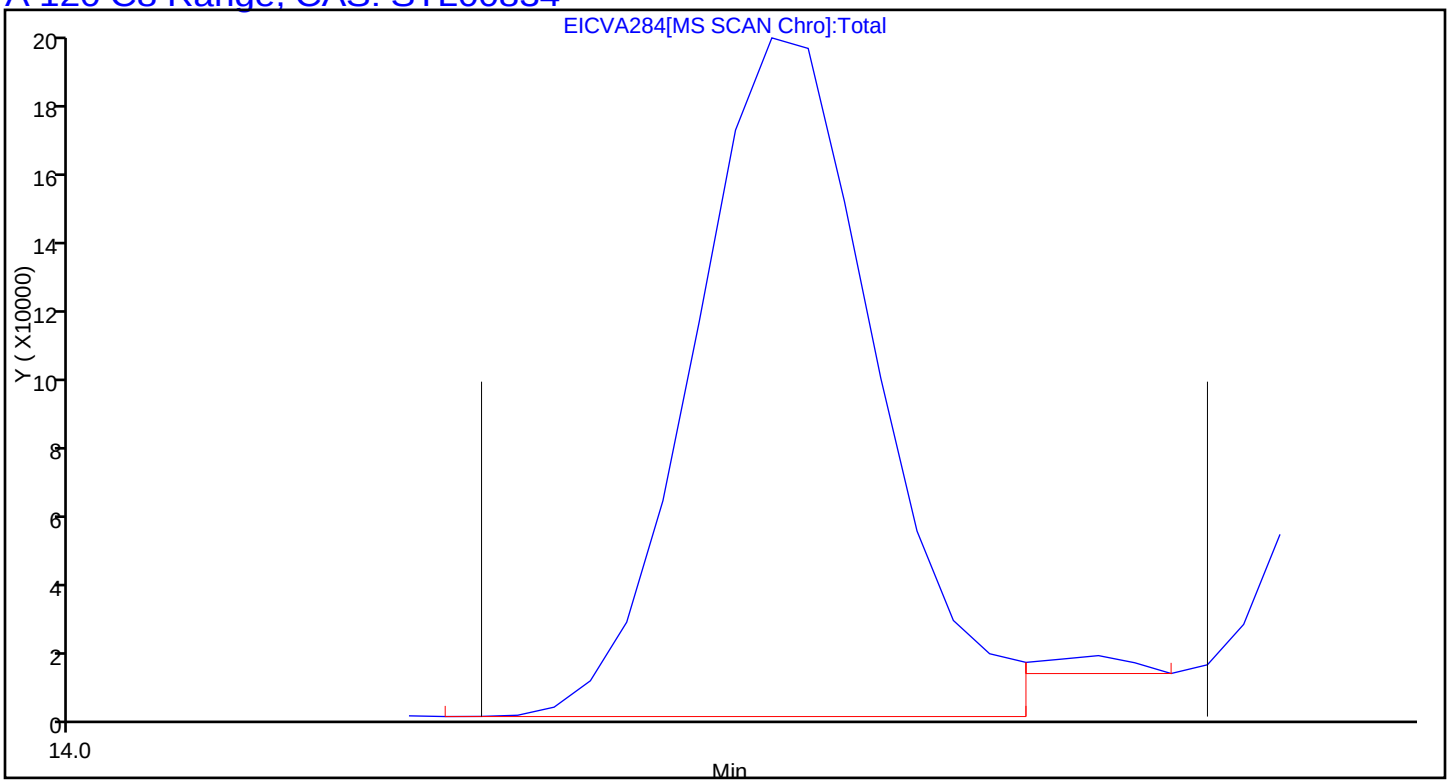


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

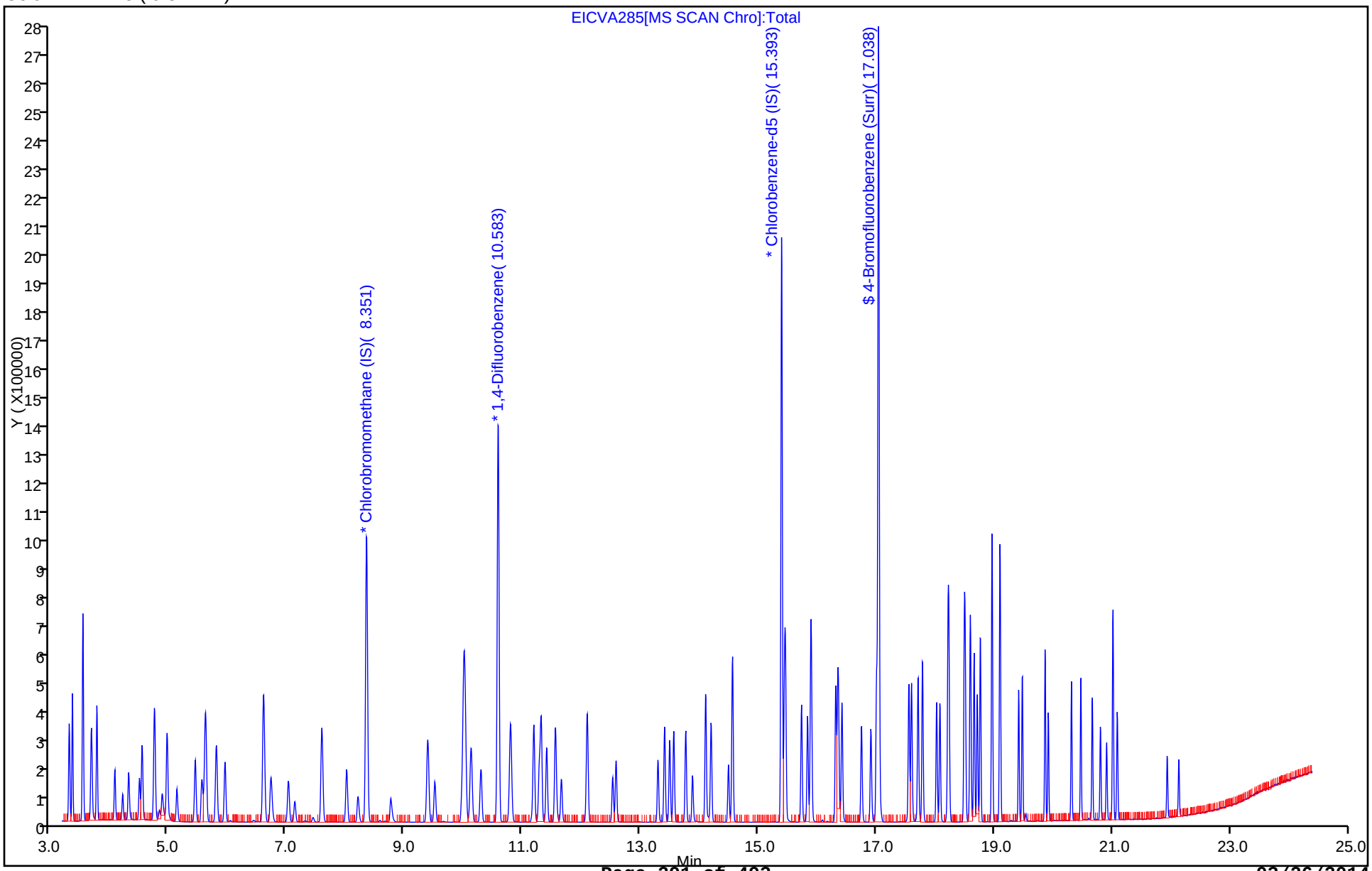
Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

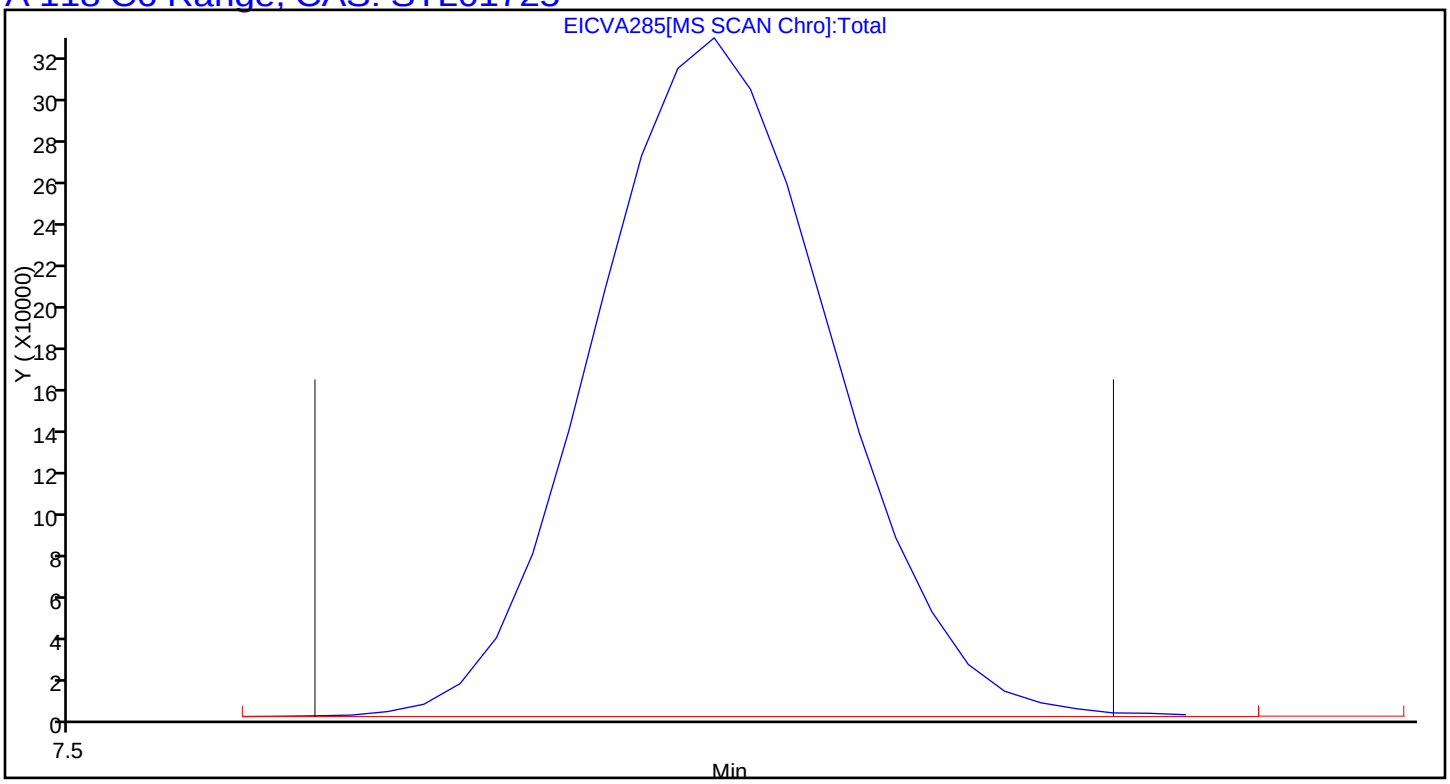


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

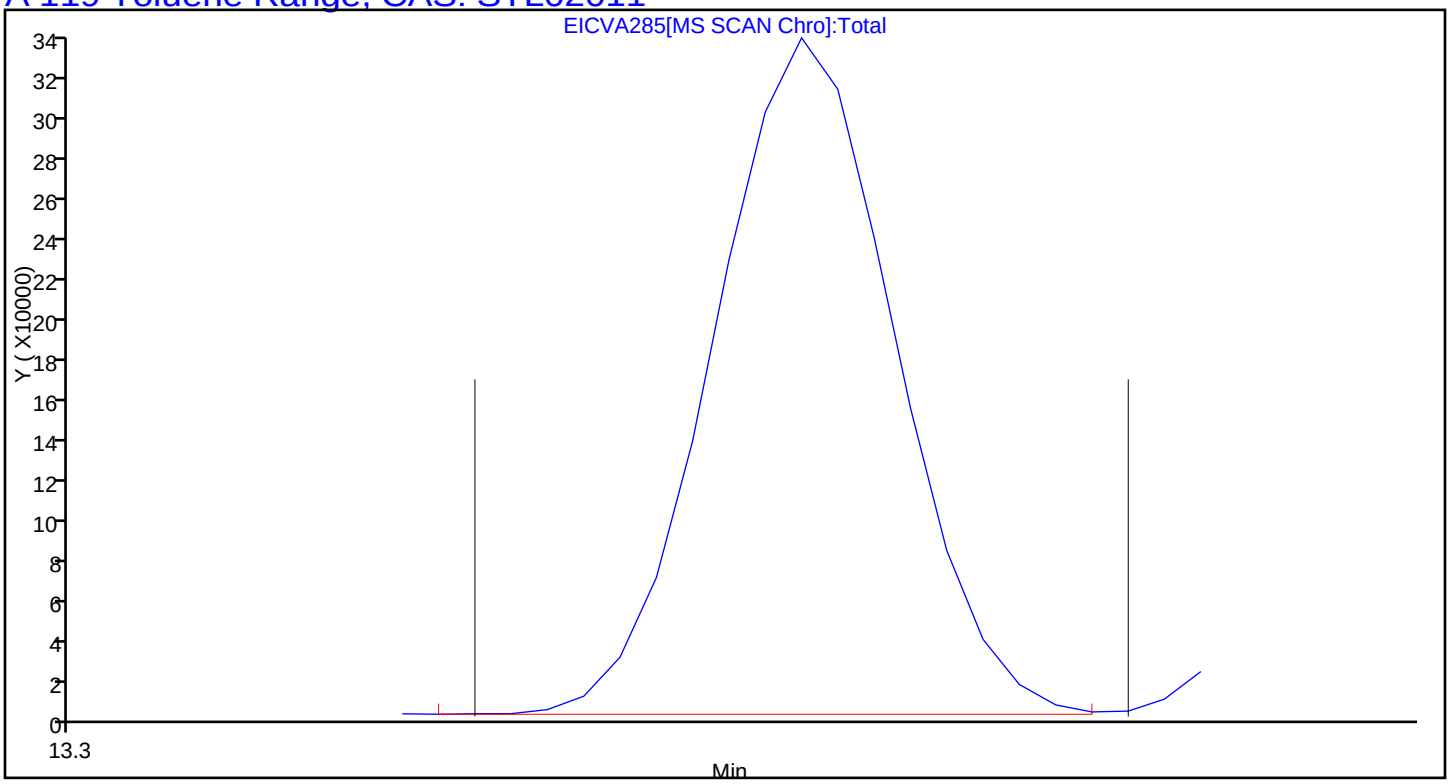


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

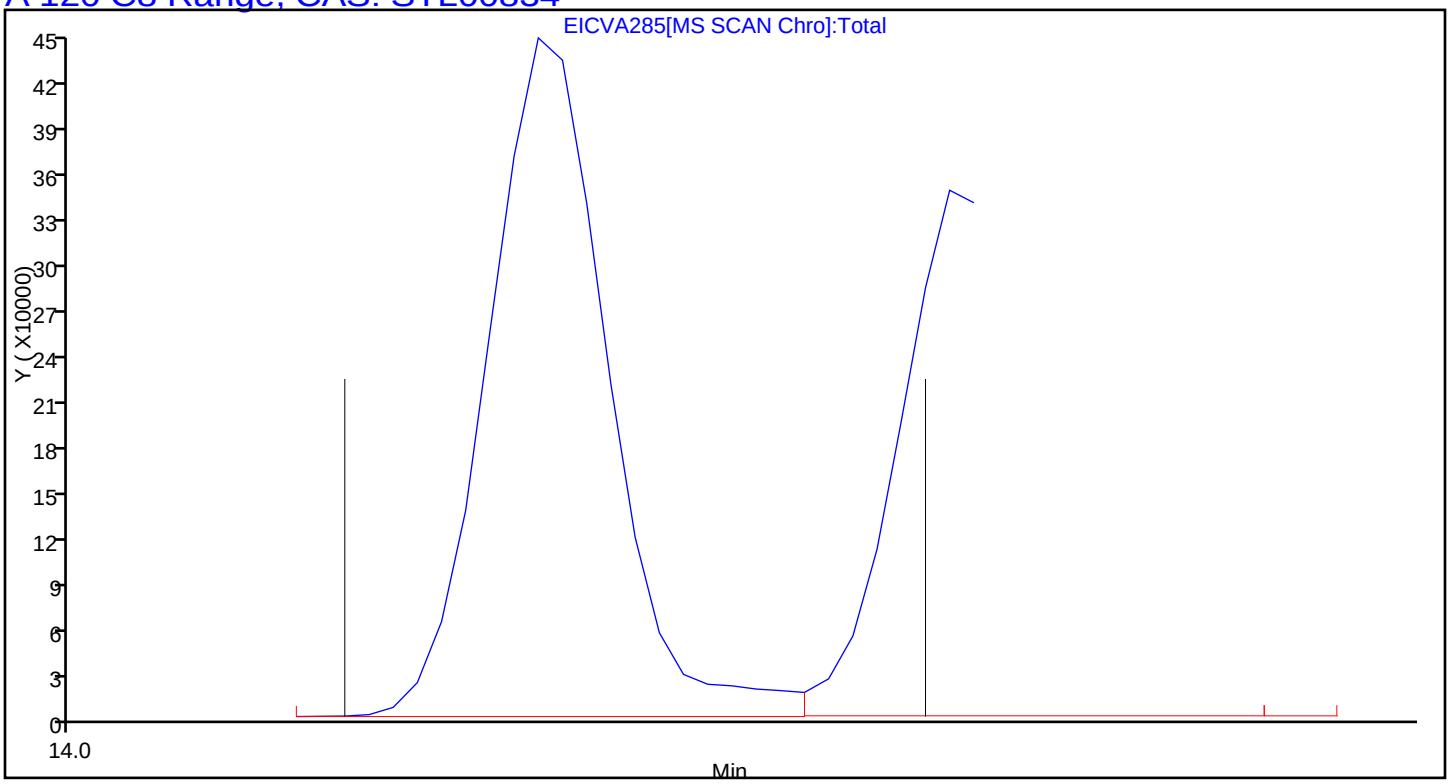


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

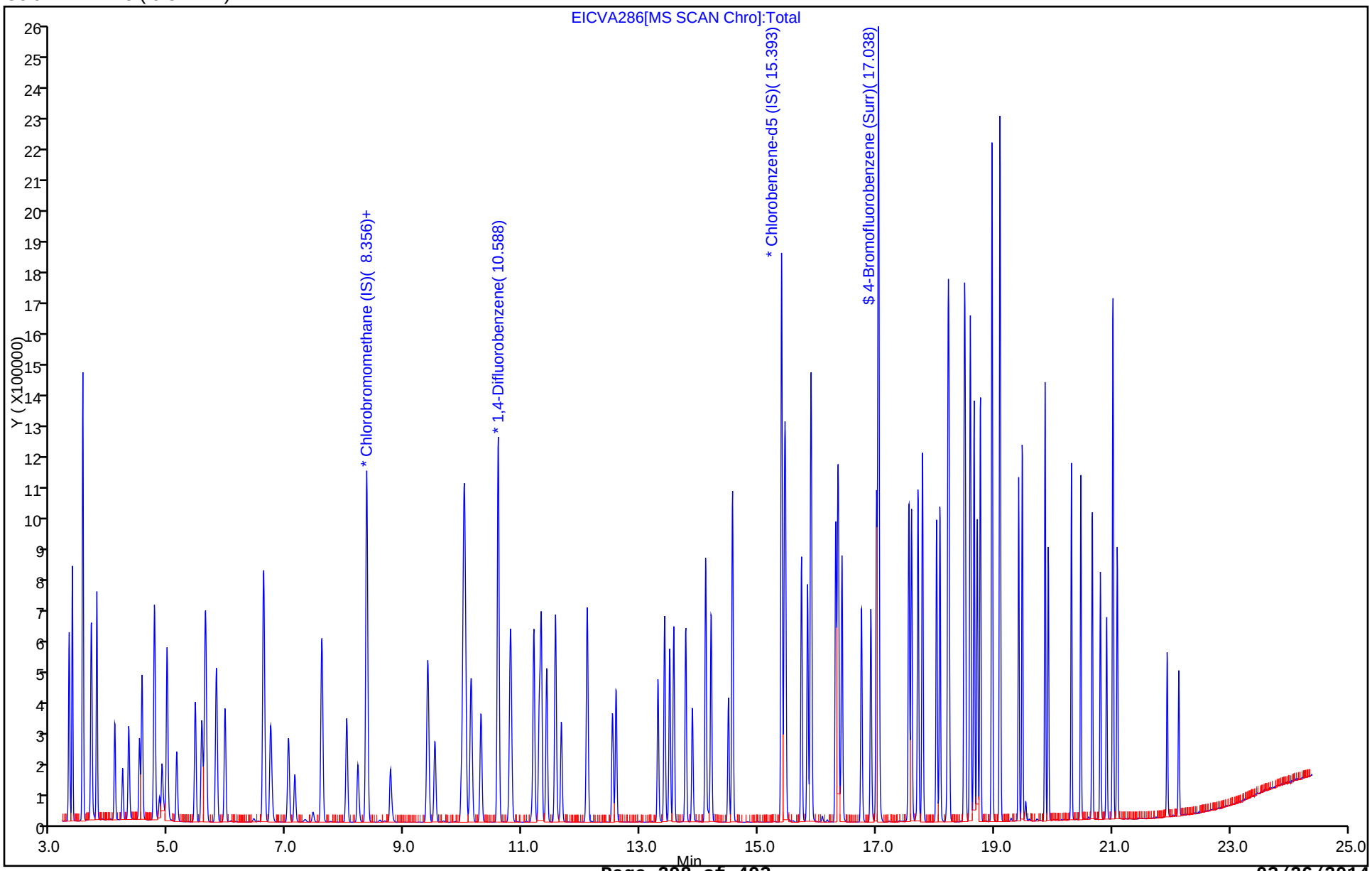
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

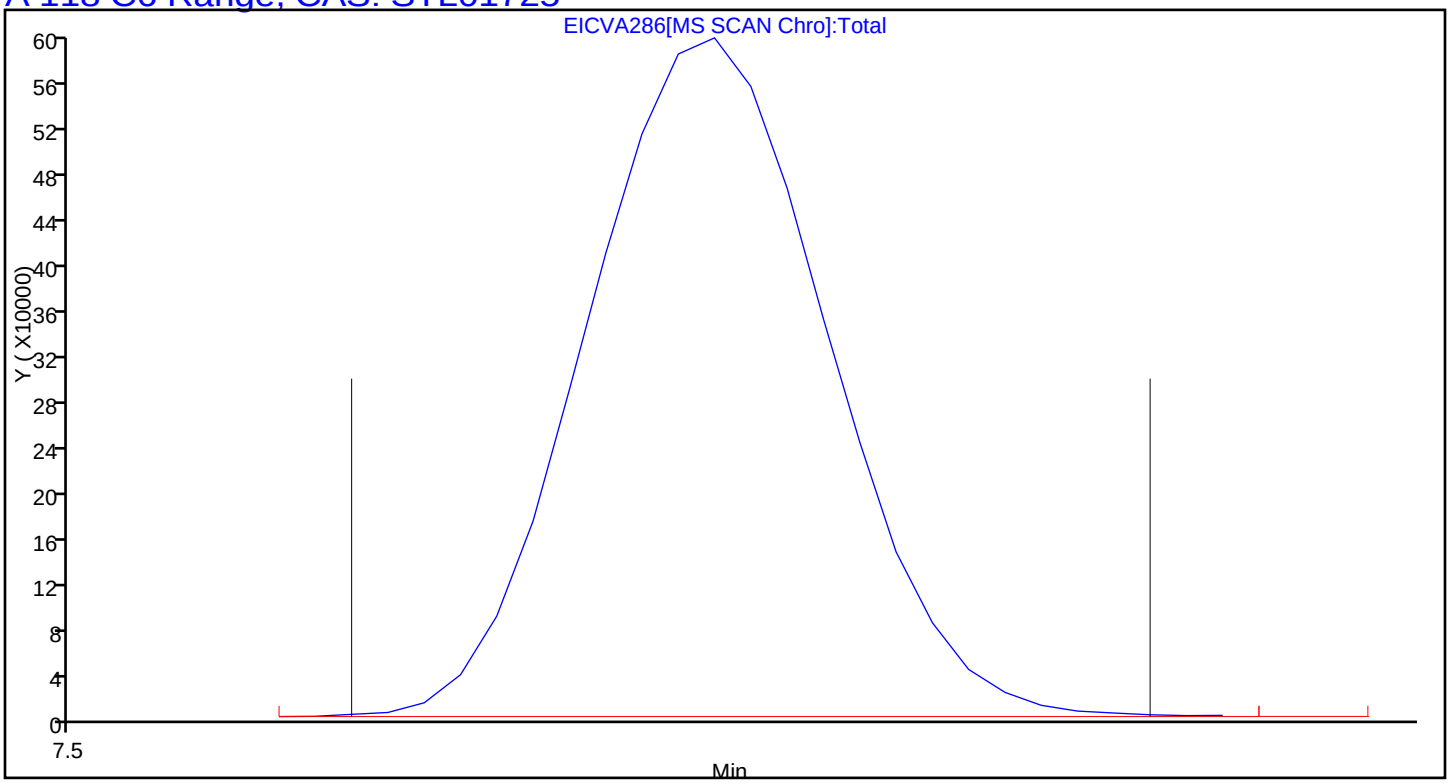


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

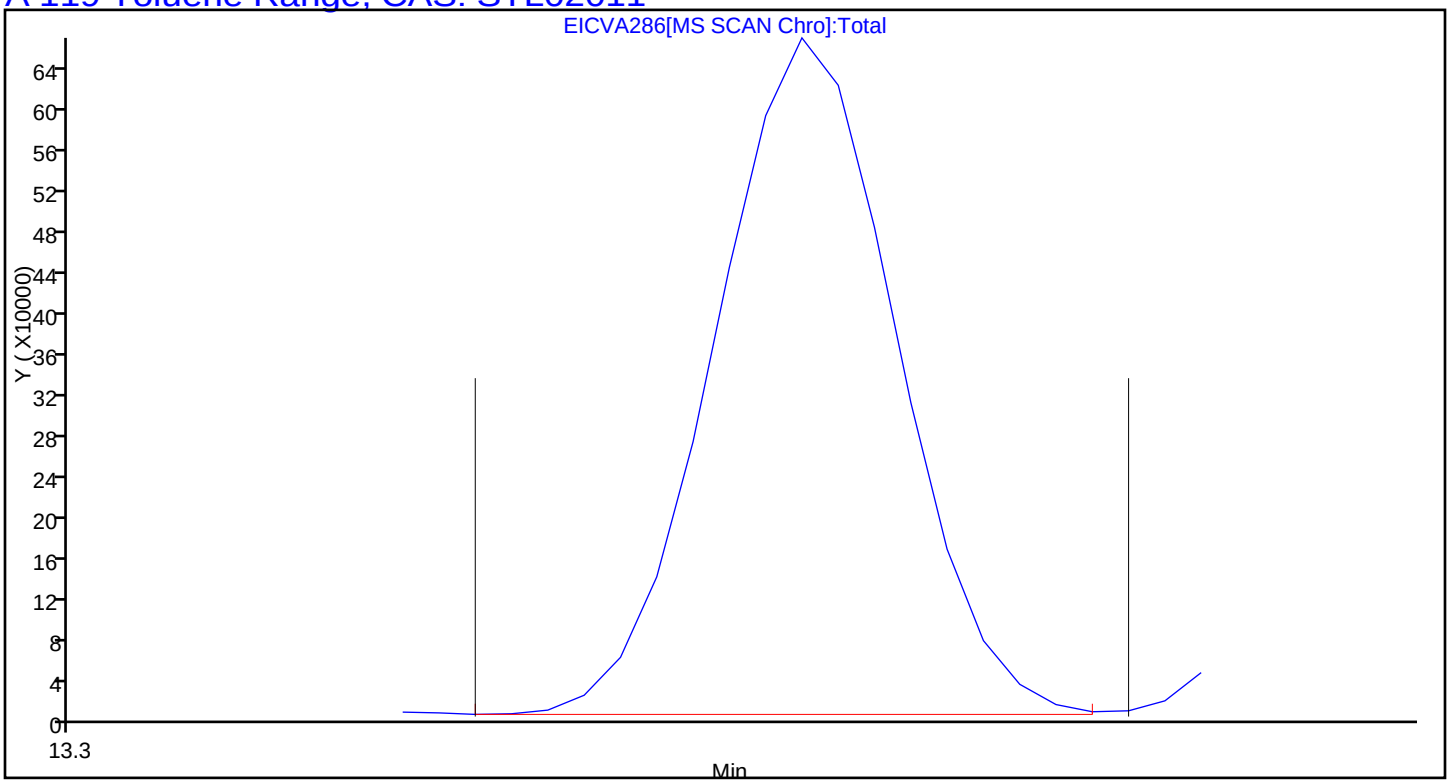


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

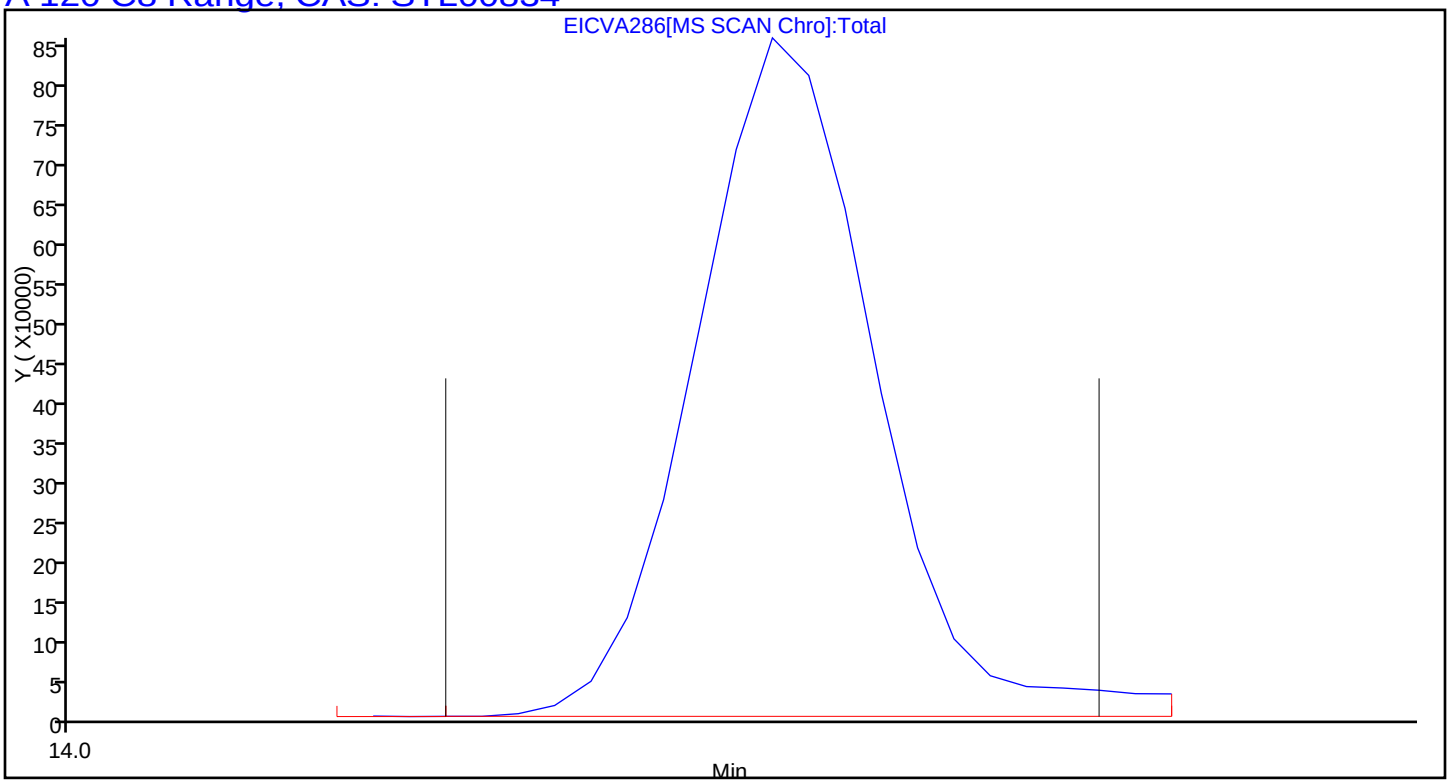


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

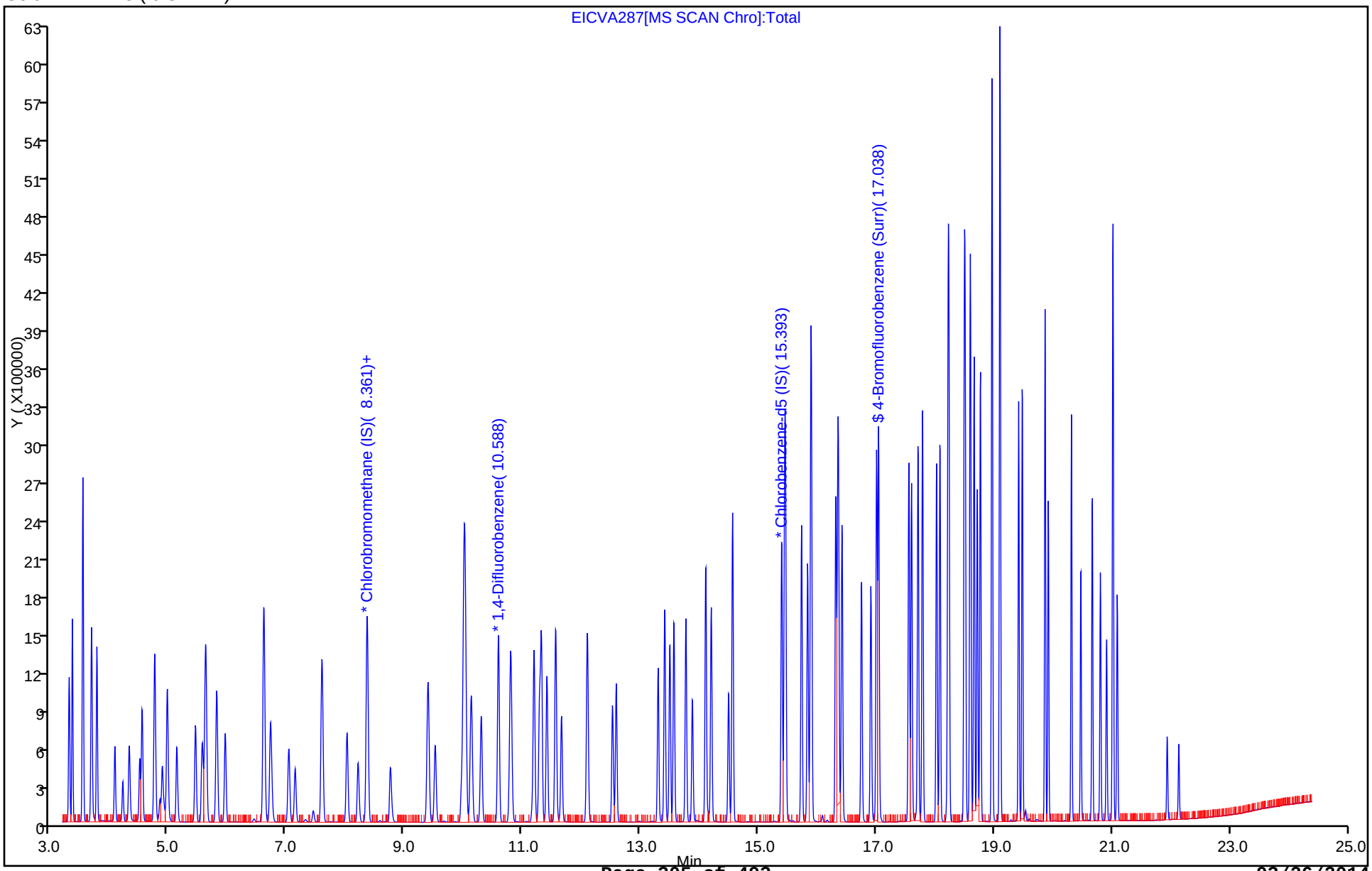
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

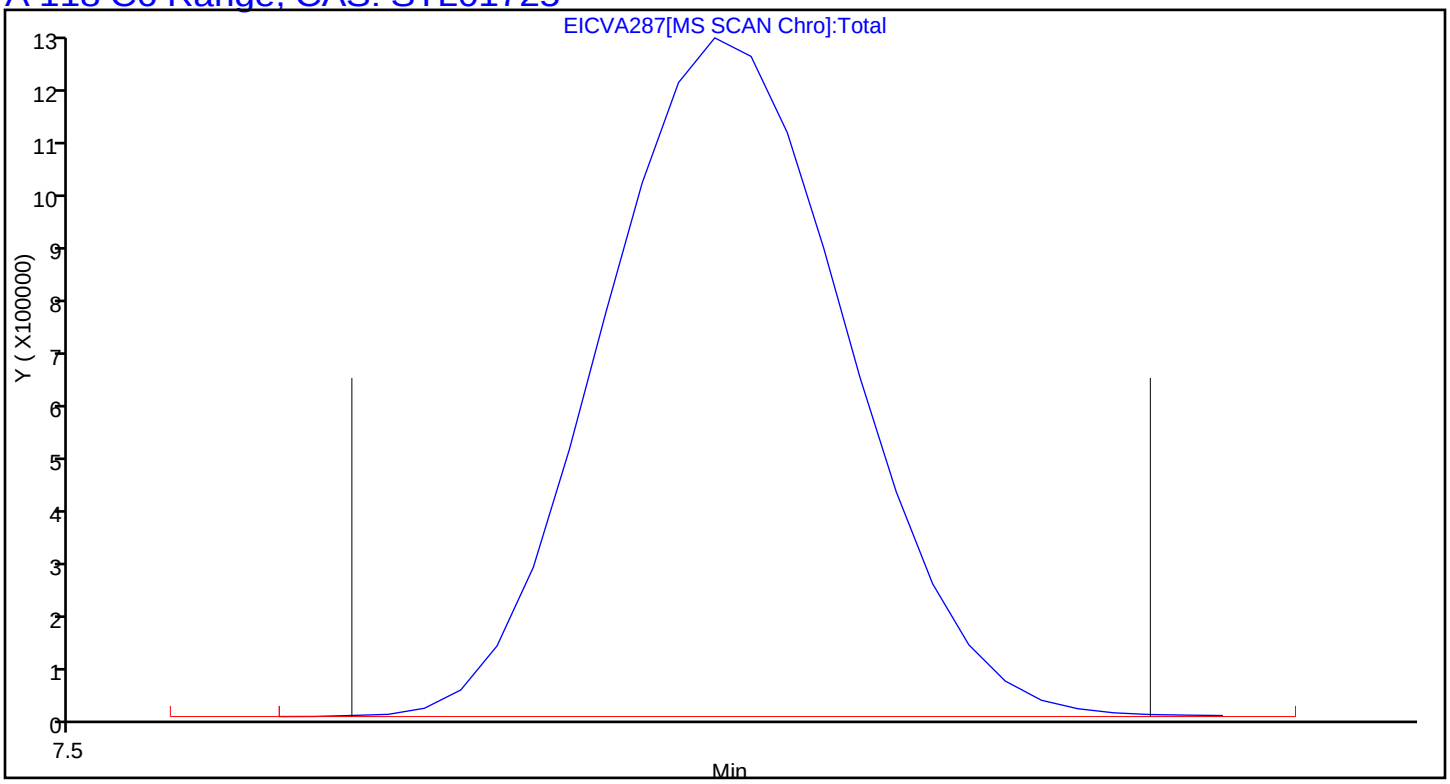


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

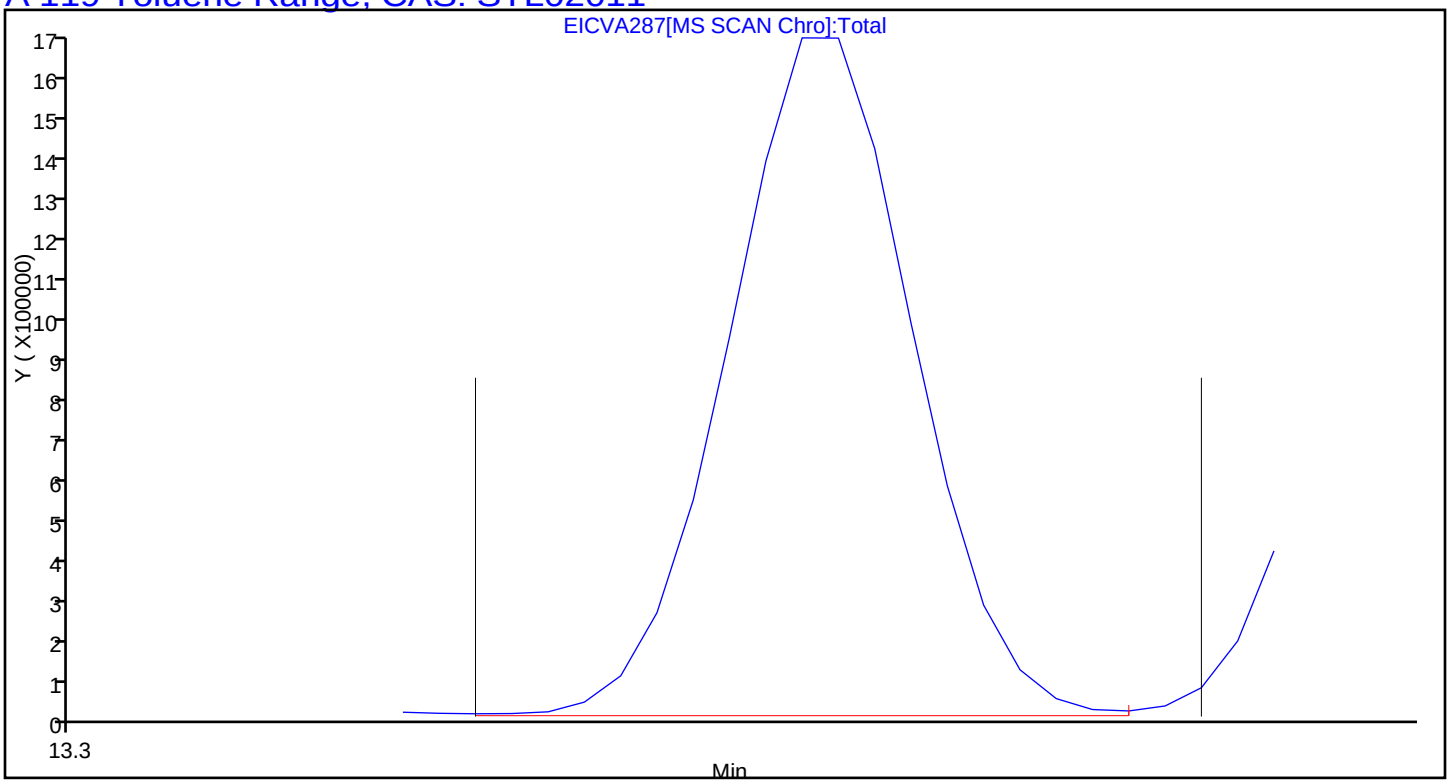


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

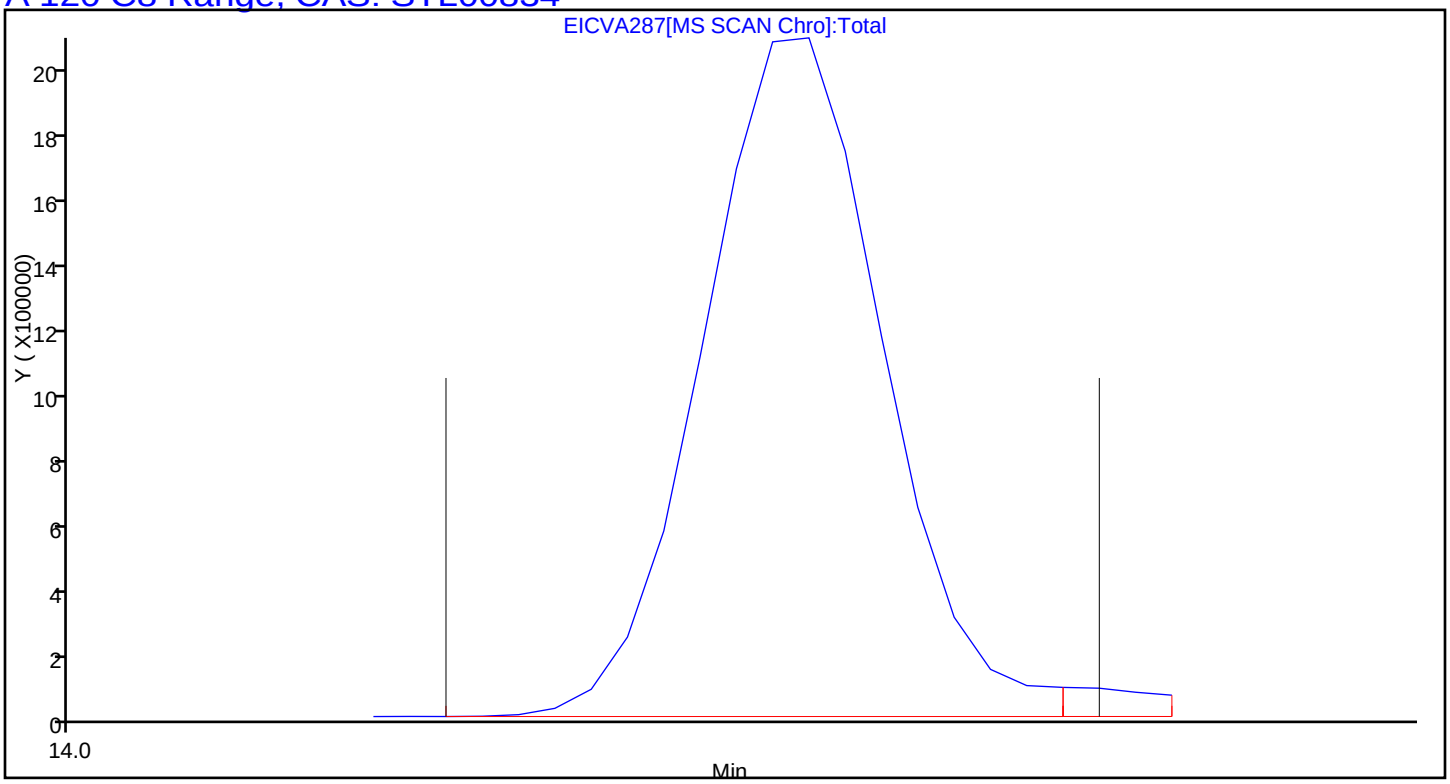


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

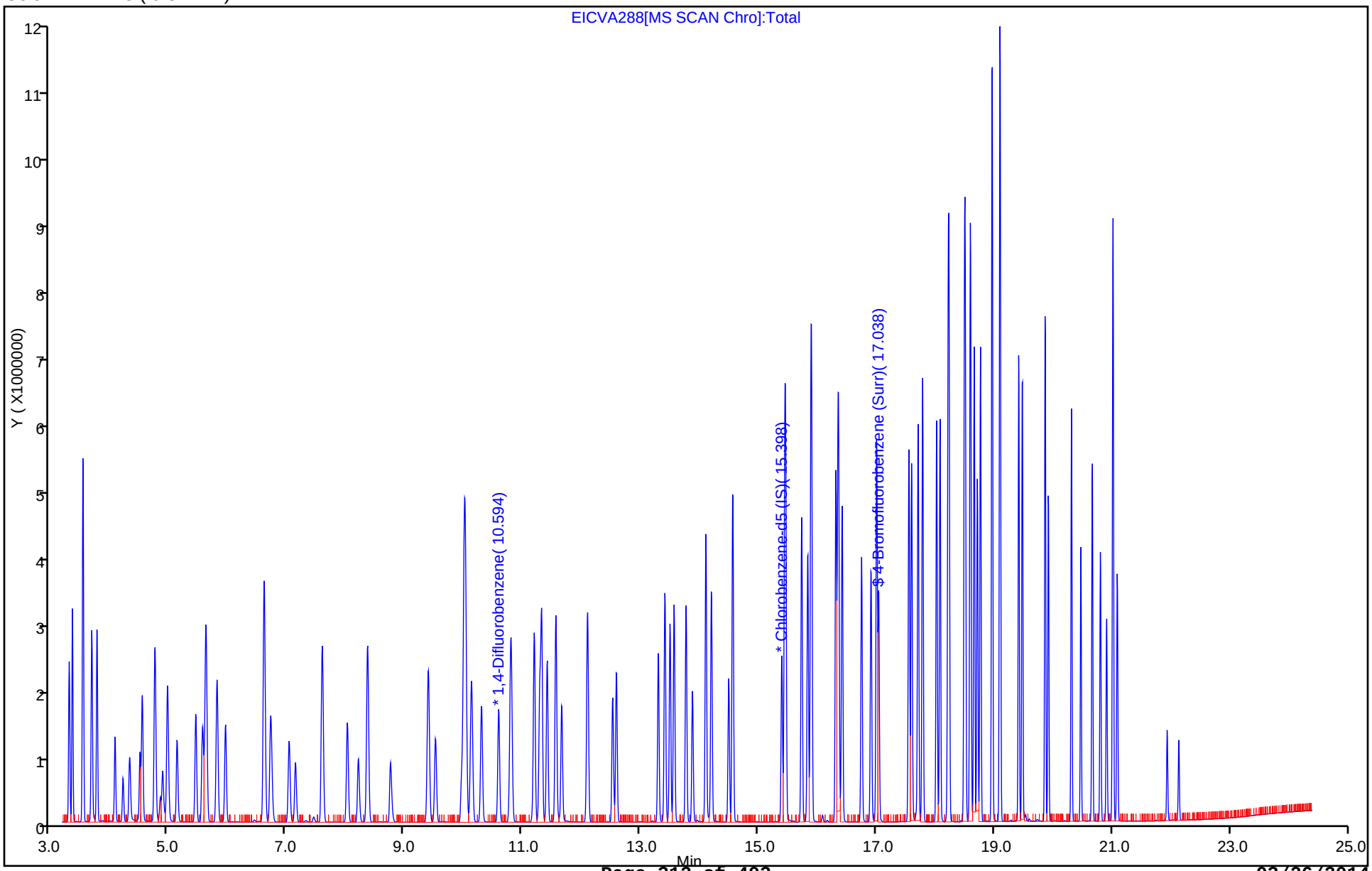
Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

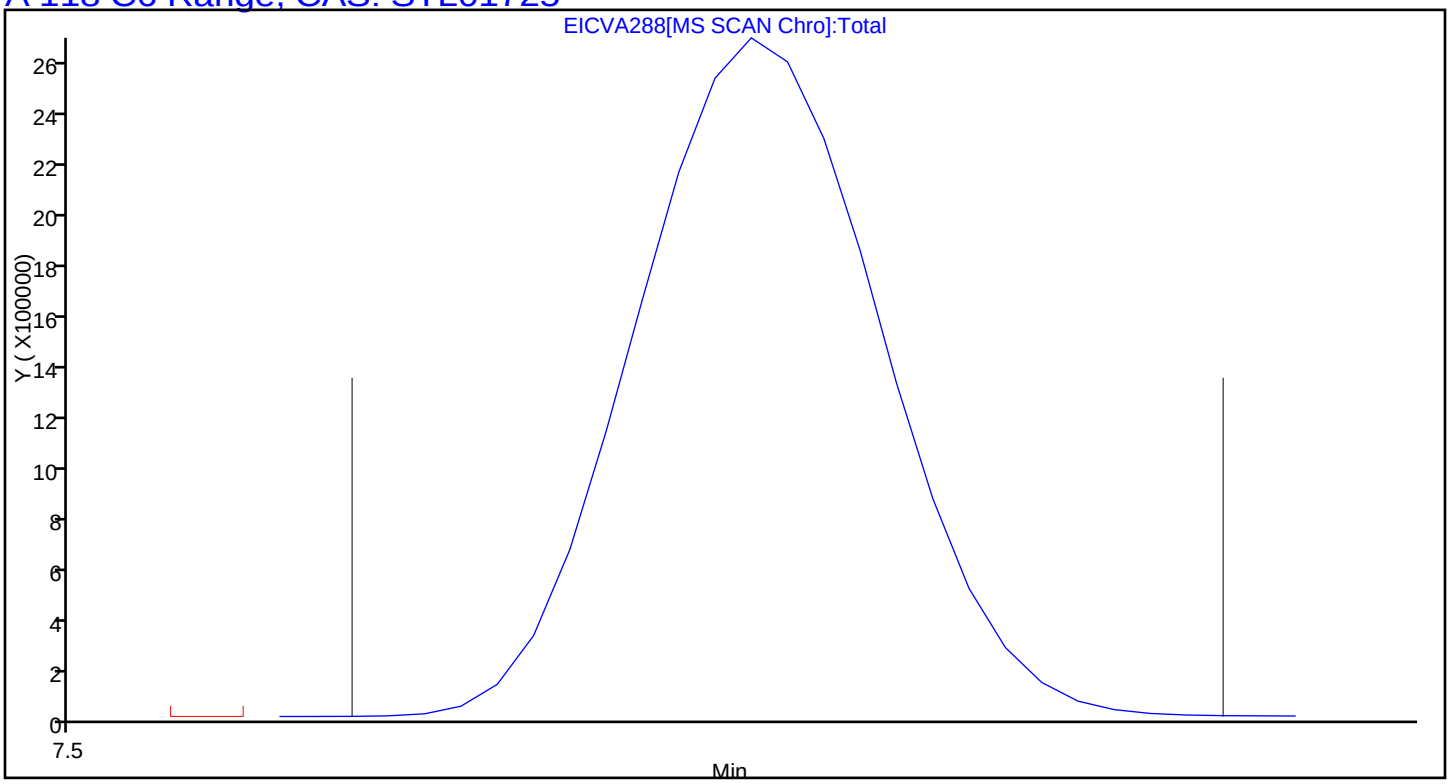


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

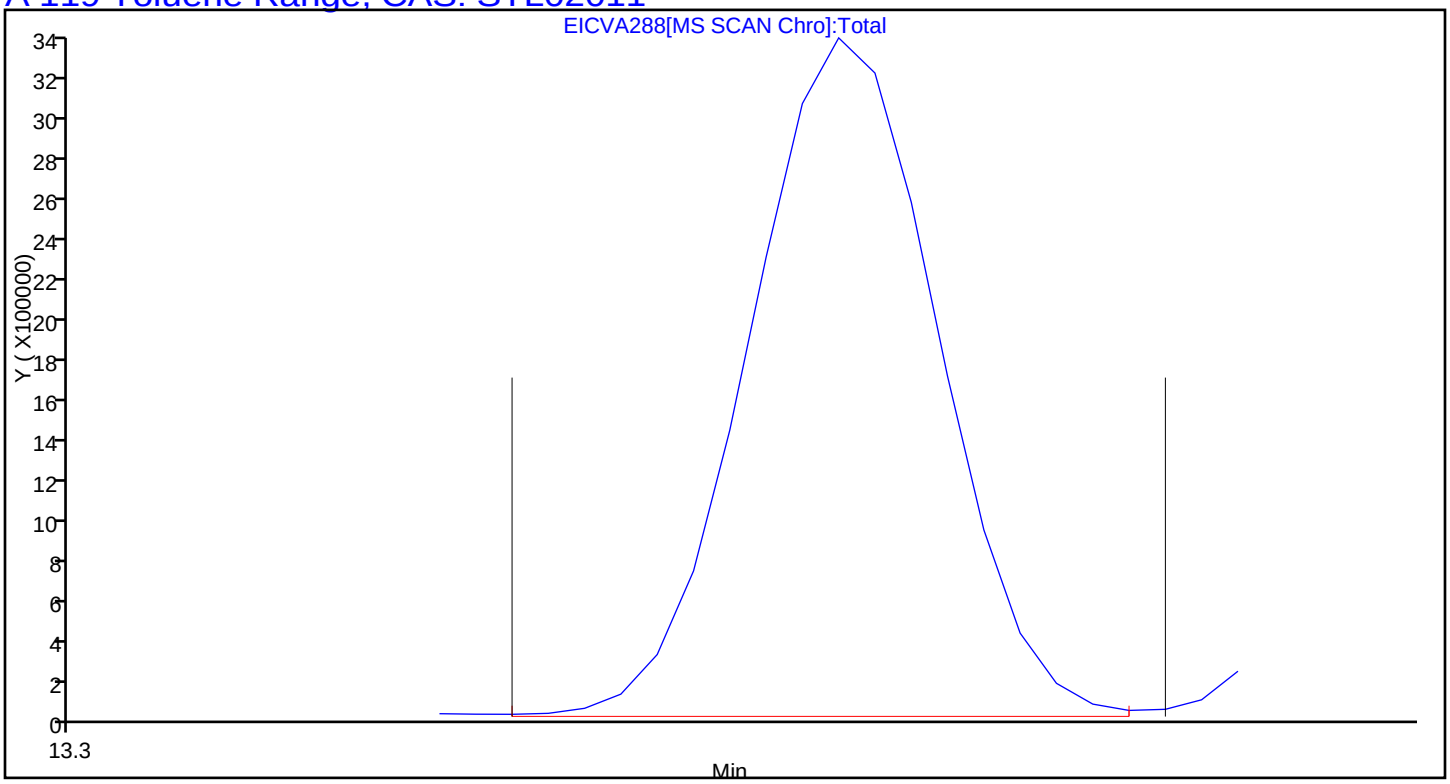


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

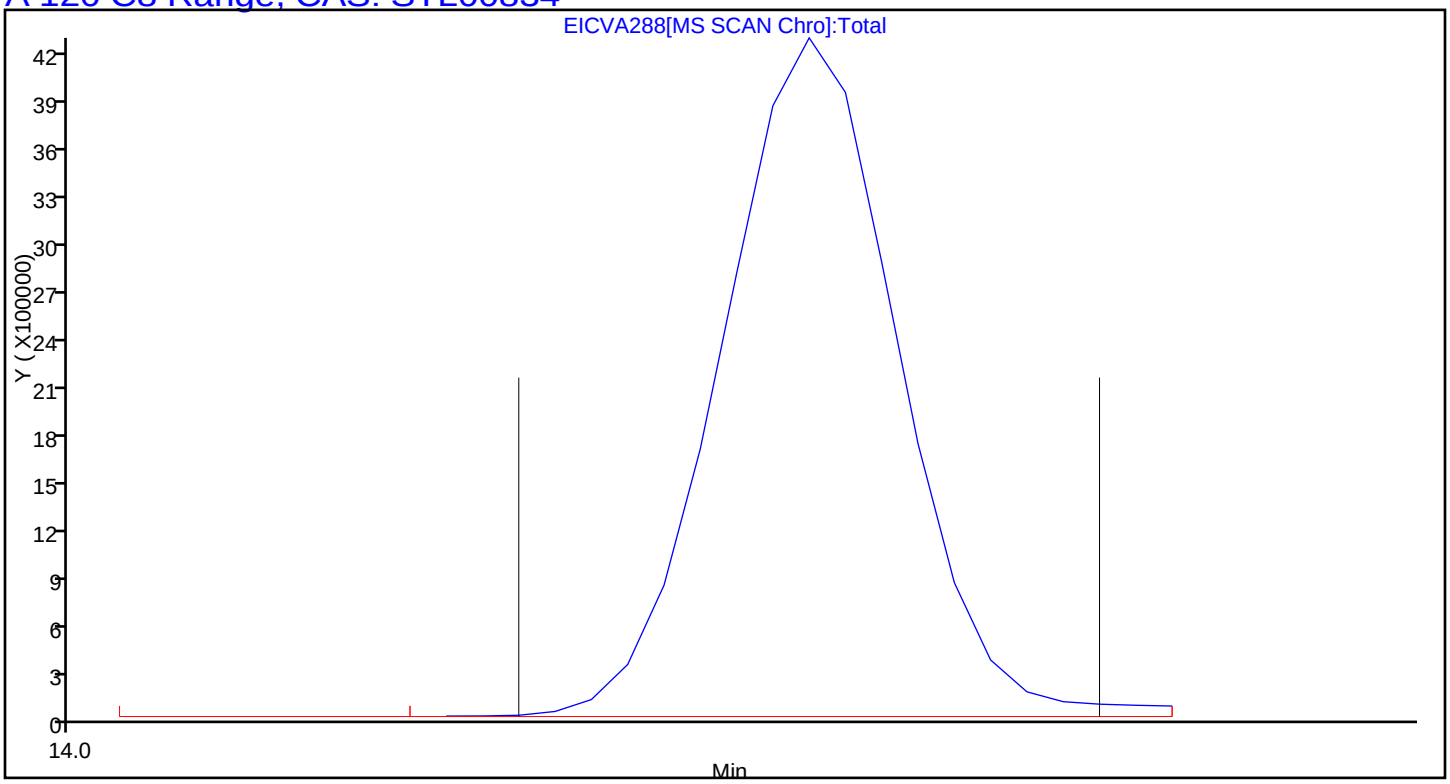


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

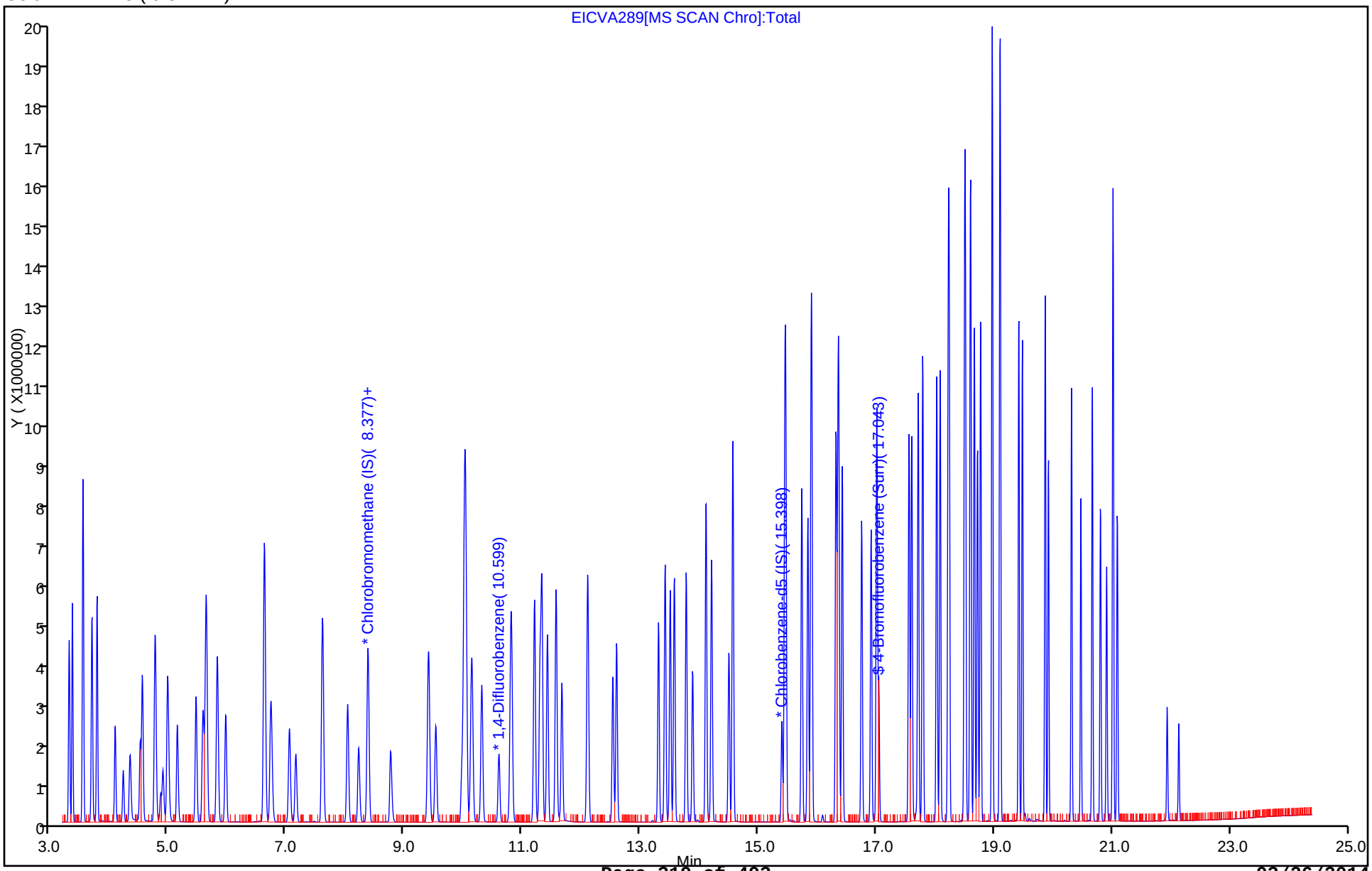
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

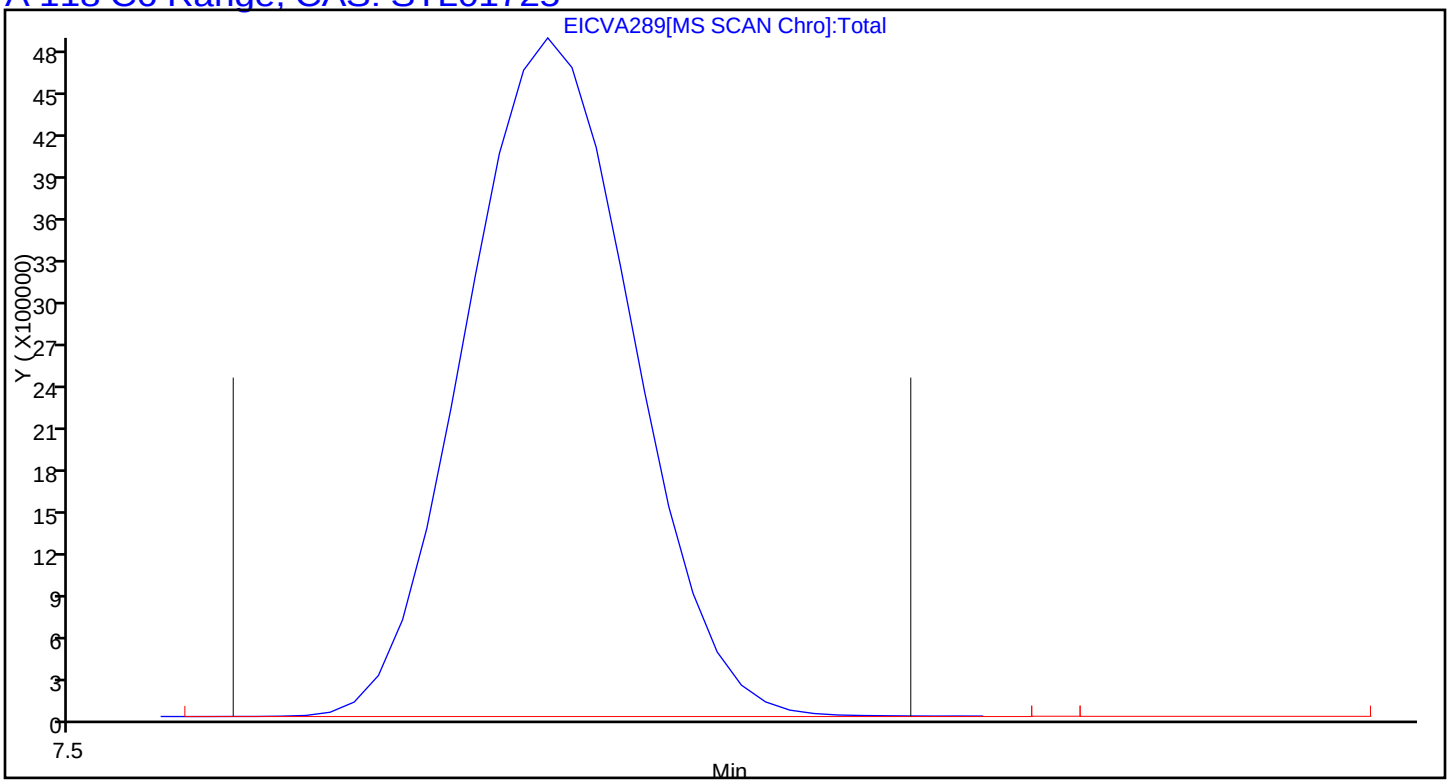


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

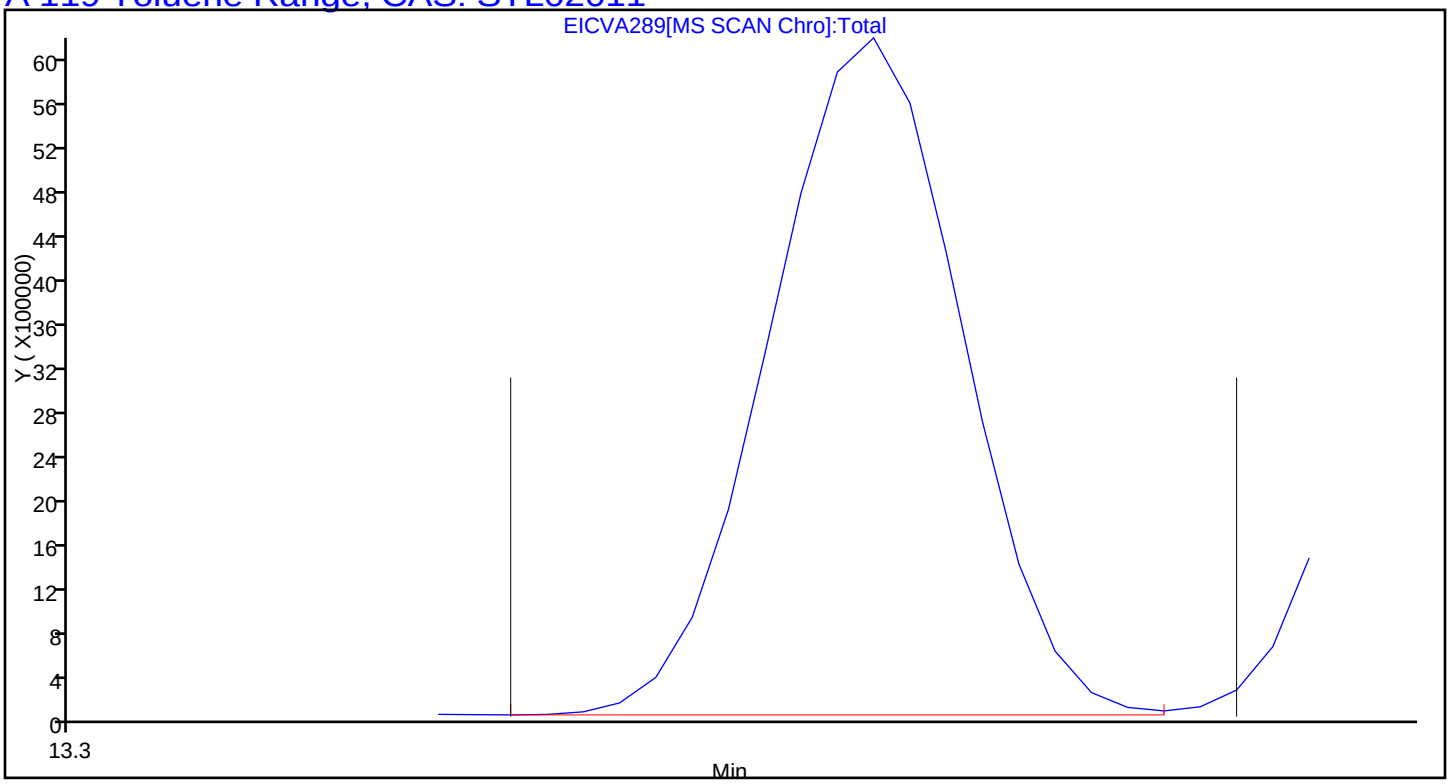


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

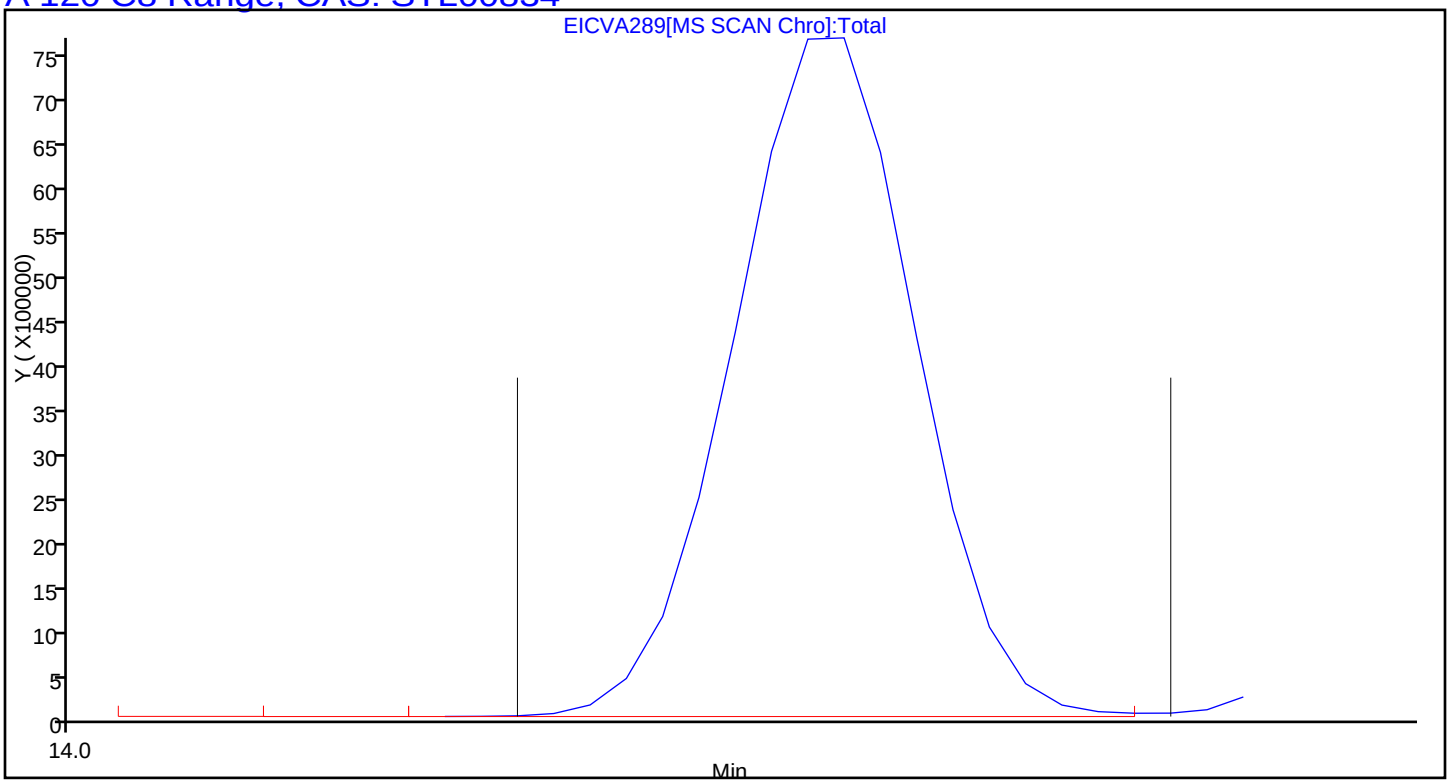


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

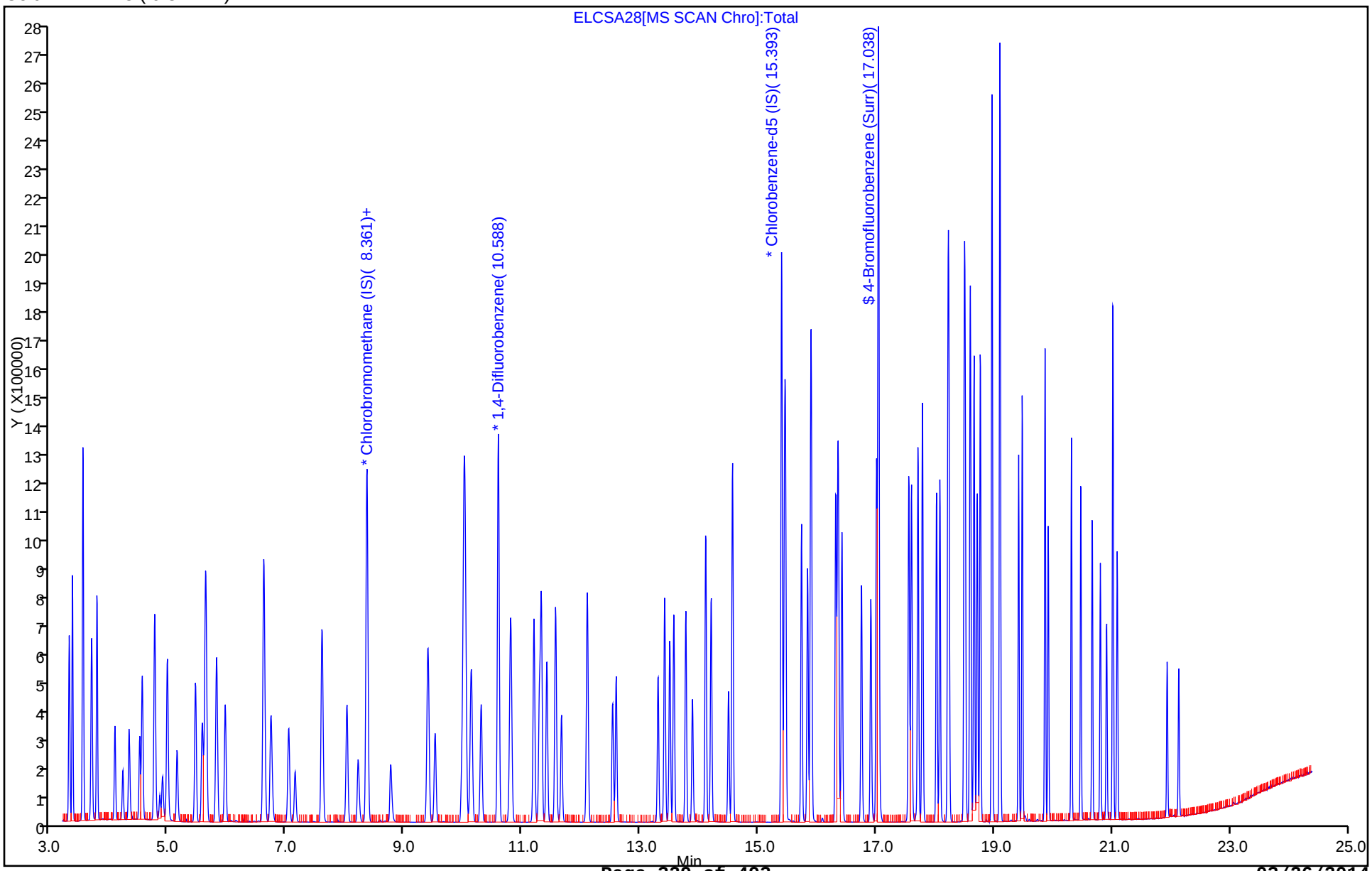
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6952		2.48	2.00	23.9	30.0
Propene	Ave	1.006	0.9498		1.89	2.00	-5.6	30.0
Dichlorodifluoromethane	Ave	4.425	5.507		2.49	2.00	24.5	30.0
Chloromethane	Ave	0.3532	0.3951		2.24	2.00	11.9	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.103		2.33	2.00	16.3	30.0
Acetaldehyde	Ave	0.3349	0.3900		11.6	10.0	16.4	50.0
Vinyl chloride	Ave	1.364	1.686		2.47	2.00	23.6	30.0
1,3-Butadiene	Ave	0.9428	1.069		2.27	2.00	13.3	30.0
Butane	Ave	1.913	2.142		2.24	2.00	12.0	30.0
Bromomethane	Ave	1.473	1.863		2.53	2.00	26.5	30.0
Chloroethane	Ave	0.6922	0.8573		2.48	2.00	23.9	30.0
Ethanol	Ave	0.4001	0.4122		10.3	10.0	3.0	50.0
Vinyl bromide	Ave	1.331	1.743		2.62	2.00	30.9*	30.0
2-Methylbutane	Ave	1.401	1.589		2.27	2.00	13.4	30.0
Trichlorofluoromethane	Ave	4.438	5.867		2.64	2.00	32.2*	30.0
Acrolein	Ave	0.4230	0.5026		2.38	2.00	18.8	30.0
Acetonitrile	Ave	0.3806	0.4680		2.46	2.00	23.0	30.0
Acetone	Ave	0.6059	0.5810		1.92	2.00	-4.1	30.0
Pentane	Ave	0.2626	0.3401		2.59	2.00	29.5	30.0
Isopropyl alcohol	Ave	1.560	1.534		1.97	2.00	-1.7	30.0
Ethyl ether	Ave	1.018	1.145		2.25	2.00	12.4	30.0
1,1-Dichloroethene	Ave	1.190	1.224		2.06	2.00	2.9	30.0
tert-Butyl alcohol	Ave	2.208	1.753		1.59	2.00	-20.6	30.0
Acrylonitrile	Ave	0.7008	0.7150		2.04	2.00	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.072		2.24	2.00	11.8	30.0
Methylene Chloride	Ave	1.143	1.223		2.14	2.00	7.0	30.0
3-Chloropropene	Ave	1.349	1.358		2.01	2.00	0.7	30.0
Carbon disulfide	Ave	4.140	4.466		2.16	2.00	7.9	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.453		1.99	2.00	-0.3	30.0
2-Methylpentane	Ave	2.634	2.384		1.81	2.00	-9.5	50.0
Methyl tert-butyl ether	Ave	3.630	3.977		2.19	2.00	9.6	30.0
1,1-Dichloroethane	Ave	2.467	2.495		2.02	2.00	1.1	30.0
Vinyl acetate	Ave	2.433	2.377		1.95	2.00	-2.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5157		1.58	2.00	-21.2	30.0
Hexane	Ave	1.064	0.9911		1.86	2.00	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.296		1.90	2.00	-4.8	30.0
Ethyl acetate	Ave	2.130	1.902		1.79	2.00	-10.7	30.0
Chloroform	Ave	3.427	3.813		2.23	2.00	11.3	30.0
Tetrahydrofuran	Ave	1.026	0.8528		1.66	2.00	-16.9	30.0
1,1,1-Trichloroethane	Ave	3.888	4.364		2.25	2.00	12.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5564		2.27	2.00	13.5	30.0
1-Butanol	Ave	0.0746	0.0449		1.20	2.00	-39.9*	30.0
Cyclohexane	Ave	0.1509	0.1454		1.93	2.00	-3.7	30.0
Benzene	Ave	0.8050	0.8242		2.05	2.00	2.4	30.0
Carbon tetrachloride	Ave	0.7733	0.9483		2.45	2.00	22.6	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1809		1.93	2.00	-3.5	50.0
Thiophene	Ave	0.5002	0.4972		1.99	2.00	-0.6	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.113		1.79	2.00	-10.4	30.0
Heptane	Ave	0.3047	0.2923		1.92	2.00	-4.1	30.0
1,2-Dichloropropane	Ave	0.2586	0.2530		1.96	2.00	-2.2	30.0
Trichloroethene	Ave	0.3975	0.3758		1.89	2.00	-5.5	30.0
Dibromomethane	Ave	0.3799	0.4041		2.13	2.00	6.4	30.0
Bromodichloromethane	Ave	0.7571	0.8558		2.26	2.00	13.0	30.0
1,4-Dioxane	Ave	0.1068	0.0839		1.57	2.00	-21.5	30.0
Methyl methacrylate	Ave	0.3033	0.2803		1.85	2.00	-7.6	30.0
Methylcyclohexane	Ave	0.5694	0.5341		1.88	2.00	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3618		1.53	2.00	-23.7	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4943		2.17	2.00	8.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5386		1.99	2.00	-0.3	30.0
Toluene	Ave	1.072	1.039		1.94	2.00	-3.0	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3084		1.96	2.00	-2.2	30.0
2-Methylthiophene	Ave	0.9307	0.8963		1.93	2.00	-3.7	50.0
3-Methylthiophene	Ave	0.9375	0.8993		1.92	2.00	-4.1	50.0
2-Hexanone	Ave	0.2529	0.1933		1.53	2.00	-23.6	30.0
Octane	Ave	0.3821	0.3619		1.89	2.00	-5.3	30.0
Dibromochloromethane	Ave	0.7144	0.7225		2.02	2.00	1.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5645		2.00	2.00	0.2	30.0
Tetrachloroethene	Ave	0.4564	0.4272		1.87	2.00	-6.4	30.0
Chlorobenzene	Ave	0.8545	0.8469		1.98	2.00	-0.9	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7192		1.75	2.00	-12.4	50.0
Ethylbenzene	Ave	1.374	1.406		2.05	2.00	2.3	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.8	50.0
m-Xylene & p-Xylene	Ave	1.080	1.192		4.41	4.00	10.3	30.0
Nonane	Ave	0.5994	0.5418		1.81	2.00	-9.6	30.0
Bromoform	Ave	0.6422	0.5491		1.71	2.00	-14.5	30.0
Styrene	Ave	0.7475	0.7937		2.12	2.00	6.2	30.0
o-Xylene	Ave	1.168	1.227		2.10	2.00	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7137		2.08	2.00	3.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2626		2.10	2.00	4.9	30.0
Isopropylbenzene	Ave	1.542	1.598		2.07	2.00	3.6	30.0
Propylbenzene	Ave	0.4031	0.4020		1.99	2.00	-0.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3764		1.96	2.00	-2.0	30.0
4-Ethyltoluene	Ave	1.477	1.511		2.05	2.00	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6804		2.03	2.00	1.6	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5826		2.11	2.00	5.4	30.0
Decane	Ave	0.6339	0.6650		2.10	2.00	4.9	30.0
tert-Butylbenzene	Ave	1.348	1.404		2.08	2.00	4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.341		2.18	2.00	9.2	30.0
sec-Butylbenzene	Ave	1.656	1.766		2.13	2.00	6.6	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8224		2.06	2.00	3.0	30.0
Benzyl chloride	Ave	1.010	1.068		2.12	2.00	5.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.8004		2.04	2.00	1.9	30.0
4-Isopropyltoluene	Ave	1.399	1.514		2.16	2.00	8.2	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.098		2.11	2.00	5.4	50.0
Butylcyclohexane	Ave	0.9625	1.010		2.10	2.00	5.0	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7904		2.08	2.00	3.9	30.0
Indane	Ave	1.073	1.121		2.09	2.00	4.5	50.0
Indene	Ave	1.019	1.098		2.16	2.00	7.8	50.0
Butylbenzene	Ave	1.239	1.429		2.31	2.00	15.3	30.0
Undecane	Ave	0.5595	0.6079		2.17	2.00	8.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.304		2.17	2.00	8.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.316		2.21	2.00	10.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8243		2.12	2.00	6.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	0.9877		1.99	2.00	-0.5	50.0
Dodecane	Ave	0.4200	0.2761		1.31	2.00	-34.3*	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.3831		1.51	2.00	-24.5	30.0
Naphthalene	Ave	0.8890	0.6638		1.49	2.00	-25.3	30.0
Benzo(b)thiophene	Ave	0.6431	0.4027		1.25	2.00	-37.4	50.0
Hexachlorobutadiene	Ave	0.6633	0.6727		2.03	2.00	1.4	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.2398		1.27	2.00	-36.7*	30.0
2-Methylnaphthalene	Ave	0.0420	0.0193		5.75	12.5	-54.0*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0165		5.65	12.5	-54.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9602		4.38	4.00	9.6	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Mar-2014 09:55:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031414,TO155,,140-0000522-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 15:36:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 15:36:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	205602	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	1014056	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	970133	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	931480	4.38	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	71470	2.48	
7 Propene	41	3.314	3.314	0.0	92	97644	1.89	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	566107	2.49	
9 Chloromethane	52	3.530	3.530	0.0	97	40617	2.24	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	318943	2.33	
11 Acetaldehyde	44	3.681	3.681	0.0	91	200456	11.6	
12 Vinyl chloride	62	3.691	3.691	0.0	99	173341	2.47	
14 Butane	43	3.772	3.772	0.0	82	220221	2.24	
13 Butadiene	54	3.772	3.772	0.0	71	109849	2.27	
15 Bromomethane	94	4.080	4.080	0.0	98	191471	2.53	
16 Chloroethane	64	4.209	4.209	0.0	95	88135	2.48	
17 Ethanol	31	4.317	4.317	0.0	98	211853	10.3	
18 Vinyl bromide	106	4.495	4.495	0.0	96	179146	2.62	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163362	2.27	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	603178	2.64	
20 Acrolein	56	4.765	4.765	0.0	97	51672	2.38	
22 Acetonitrile	40	4.840	4.840	0.0	96	48111	2.46	
23 Acetone	58	4.883	4.883	0.0	78	59731	1.92	
25 Pentane	72	4.959	4.959	0.0	97	34964	2.59	
24 Isopropyl alcohol	45	4.975	4.975	0.0	74	157651	1.97	
26 Ethyl ether	31	5.126	5.126	0.0	84	117656	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	125864	2.06	
29 2-Methyl-2-propanol	59	5.557	5.557	0.0	94	180186	1.59	
28 Acrylonitrile	53	5.563	5.563	0.0	84	73506	2.04	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	93	315786	2.24	
31 Methylene Chloride	84	5.795	5.795	0.0	84	125776	2.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	139634	2.01	
33 Carbon disulfide	76	5.940	5.940	0.0	99	459076	2.16	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	149416	1.99	
35 2-Methylpentane	43	6.603	6.603	0.0	86	245067	1.81	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	408873	2.19	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	256538	2.02	
38 Vinyl acetate	43	7.132	7.132	0.0	99	244308	1.95	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	53018	1.58	
40 Hexane	56	7.590	7.590	0.0	81	101884	1.86	
41 cis-1,2-Dichloroethene	96	8.011	8.011	0.0	97	133213	1.90	
42 Ethyl acetate	43	8.205	8.205	0.0	97	195528	1.79	
43 Chloroform	83	8.356	8.356	0.0	97	392003	2.23	
44 Tetrahydrofuran	42	8.755	8.755	0.0	75	87665	1.66	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	448661	2.25	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	282083	2.27	
47 n-Butanol	31	9.963	9.963	0.0	85	22740	1.20	
49 Cyclohexane	69	9.984	9.984	0.0	86	73723	1.93	
48 Benzene	78	9.995	9.995	0.0	97	417909	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	480794	2.45	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	84	91722	1.93	
52 Thiophene	84	10.286	10.286	0.0	95	252099	1.99	
53 Isooctane	57	10.788	10.788	0.0	95	564466	1.79	
54 n-Heptane	71	11.182	11.182	0.0	81	148202	1.92	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	128263	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	89	190552	1.89	
57 Dibromomethane	93	11.397	11.397	0.0	91	204894	2.13	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	433906	2.26	
59 1,4-Dioxane	88	11.570	11.570	0.0	92	42522	1.57	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	142115	1.85	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	270823	1.88	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	183419	1.53	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	250632	2.17	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	261262	1.99	
65 Toluene	91	13.403	13.403	0.0	93	504008	1.94	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	149600	1.96	
67 2-Methylthiophene	97	13.560	13.560	0.0	98	434757	1.93	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	436209	1.92	
69 2-Hexanone	58	13.878	13.878	0.0	94	93766	1.53	
70 n-Octane	85	14.099	14.099	0.0	79	175521	1.89	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	350453	2.02	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	273809	2.00	
73 Tetrachloroethene	129	14.552	14.552	0.0	91	207225	1.87	
74 Chlorobenzene	112	15.436	15.436	0.0	81	410789	1.98	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	80	348844	1.75	
76 Ethylbenzene	91	15.722	15.722	0.0	99	681944	2.05	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	548958	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1156010	4.41	
81 n-Nonane	57	16.304	16.304	0.0	79	262810	1.81	
79 Bromoform	173	16.337	16.337	0.0	94	266355	1.71	
80 Styrene	104	16.353	16.353	0.0	97	384971	2.12	
82 o-Xylene	91	16.412	16.412	0.0	97	595223	2.10	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	346176	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	127375	2.10	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	774948	2.07	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	194979	1.99	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	182596	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	732948	2.05	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	330056	2.03	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	81	282618	2.11	
91 n-Decane	57	18.073	18.073	0.0	96	322565	2.10	
92 tert-Butylbenzene	119	18.213	18.213	0.0	85	681039	2.08	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	92	650269	2.18	
95 sec-Butylbenzene	105	18.488	18.488	0.0	96	856657	2.13	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	97	398928	2.06	
96 Benzyl chloride	91	18.585	18.585	0.0	96	518219	2.12	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	88	388235	2.04	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	734201	2.16	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	532570	2.11	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	490142	2.10	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	543956	2.09	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	80	383389	2.08	
103 Indene	116	19.087	19.087	0.0	86	532788	2.16	
104 n-Butylbenzene	91	19.092	19.092	0.0	95	693152	2.31	
106 Undecane	57	19.410	19.410	0.0	87	294886	2.17	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	632305	2.17	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	638558	2.21	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	399852	2.12	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	479074	1.99	
110 Dodecane	57	20.462	20.462	0.0	87	133912	1.31	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	185817	1.51	
112 Naphthalene	128	20.796	20.796	0.0	98	321980	1.49	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	195330	1.25	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	326307	2.03	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	116322	1.27	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	97	58507	5.75	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	97	50104	5.65	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1242991	1.79	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1286522	2.13	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1468700	2.03	
S 124 Xylenes, Total	100				0		6.51	

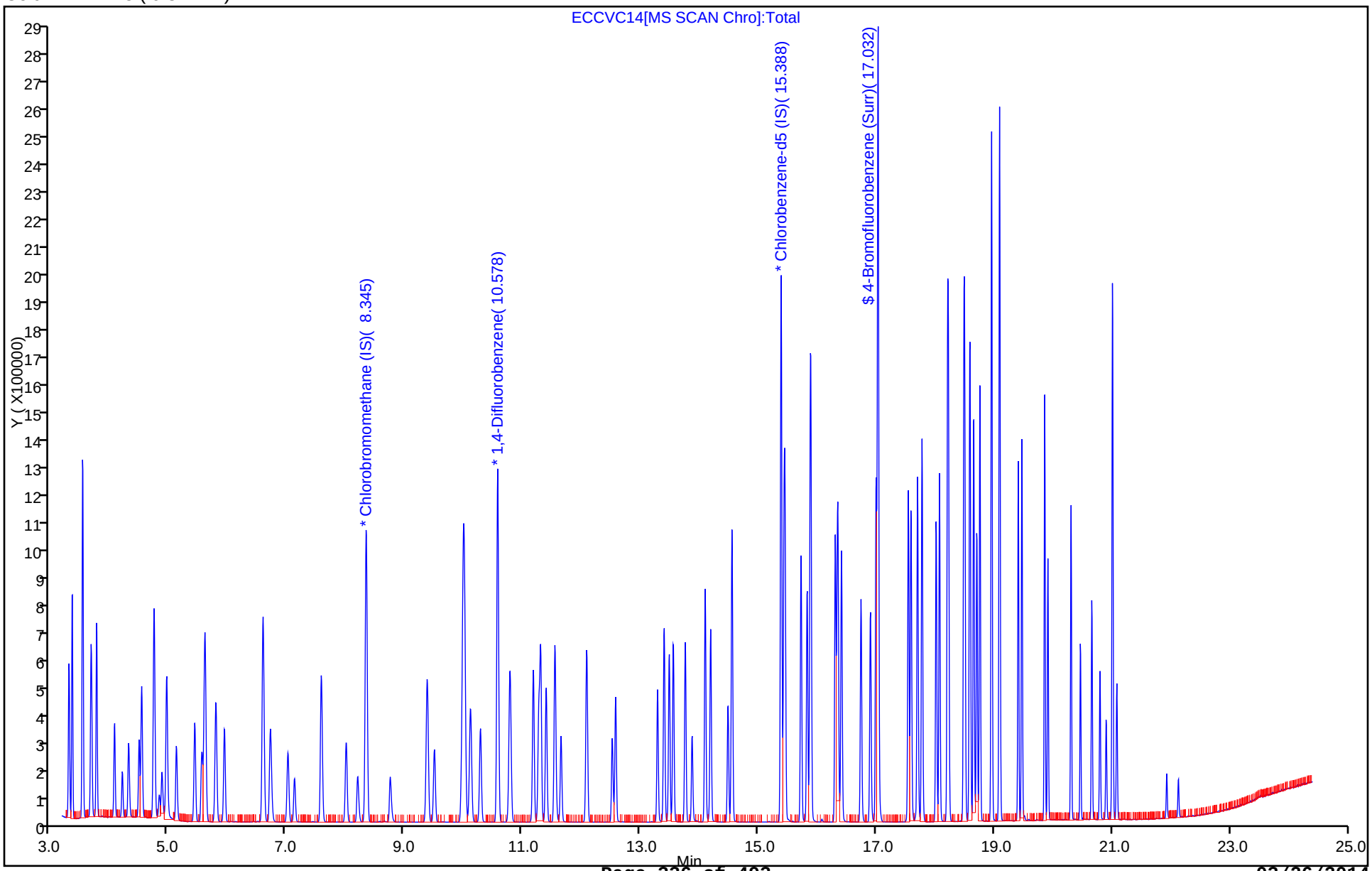
Report Date: 17-Mar-2014 15:36:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14.D

Injection Date:	14-Mar-2014 09:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

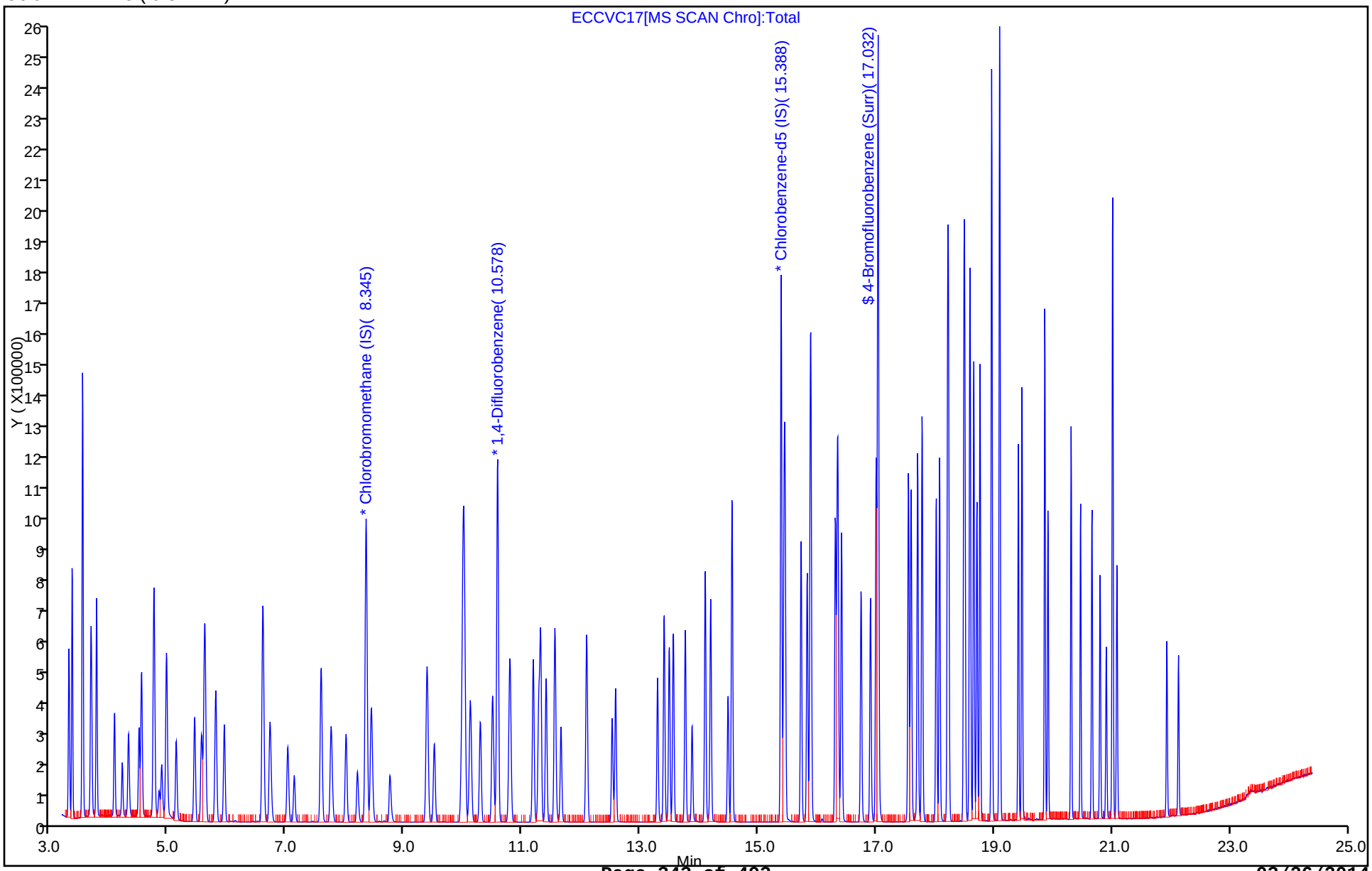
Report Date: 18-Mar-2014 11:58:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 28-Jan-2014 13:40:30 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: BFB,,3,,,BFB
Misc. Info.: E012814I,BFB,140-0000390-001
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:09 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 11:32:37

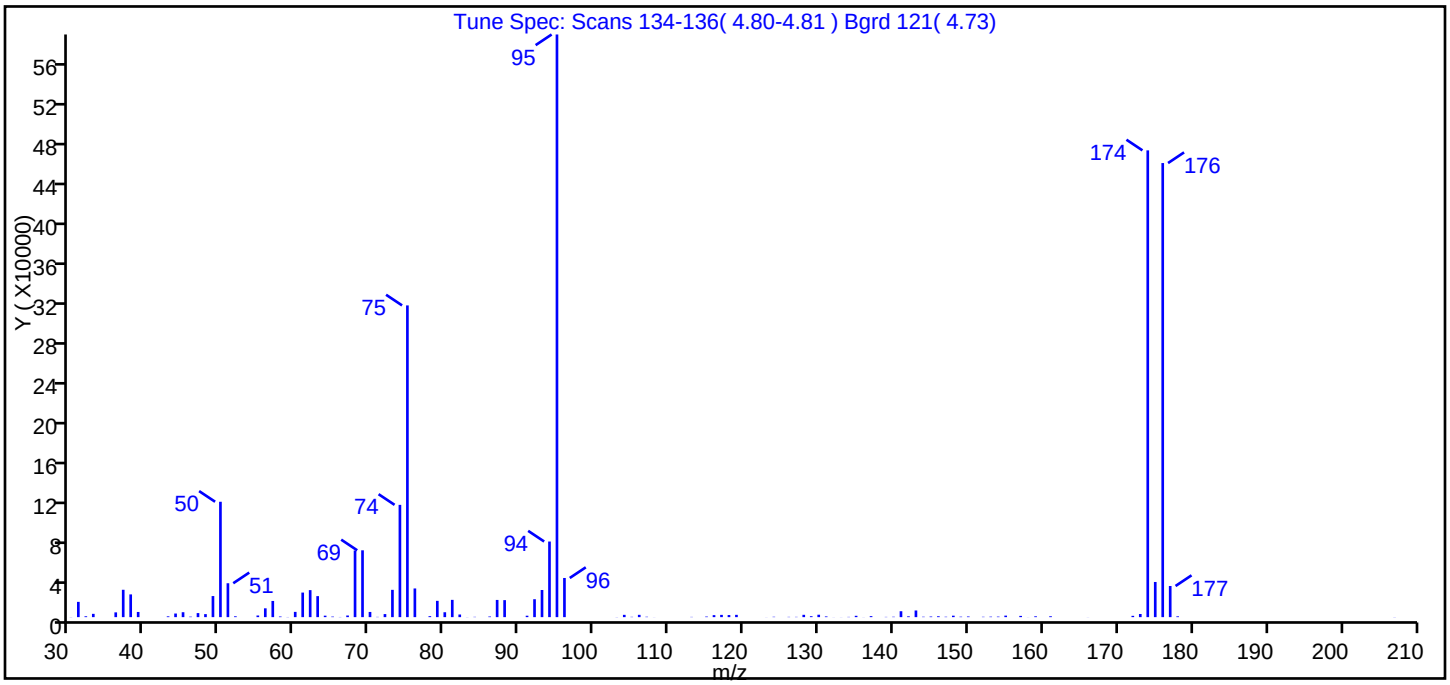
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

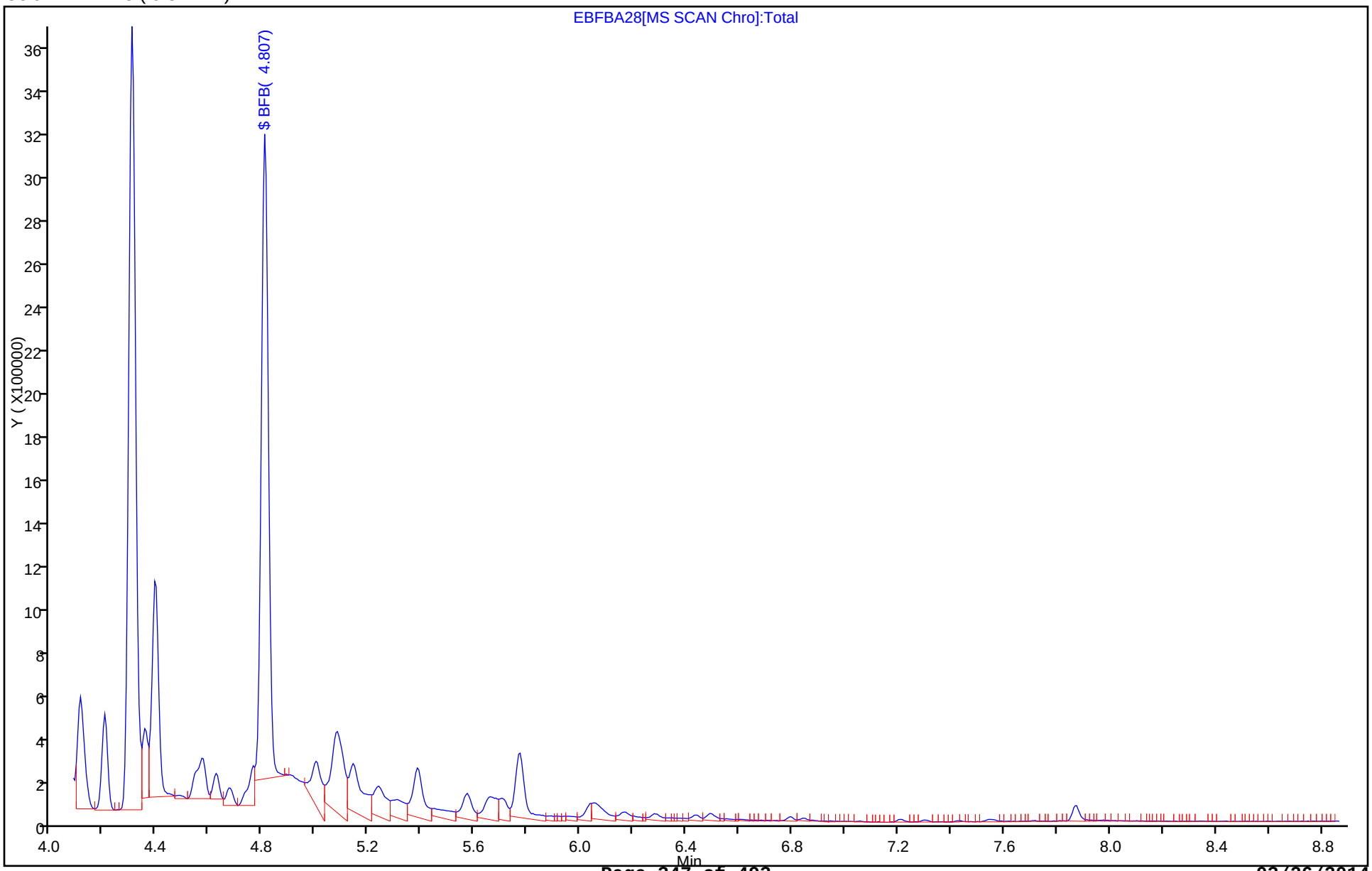
Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D

Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Mar-2014 09:24:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031414,BFB,,140-0000522-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	14-Mar-2014 10:33:45	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK018				
First Level Reviewer: tajh		Date:	14-Mar-2014 10:33:45		

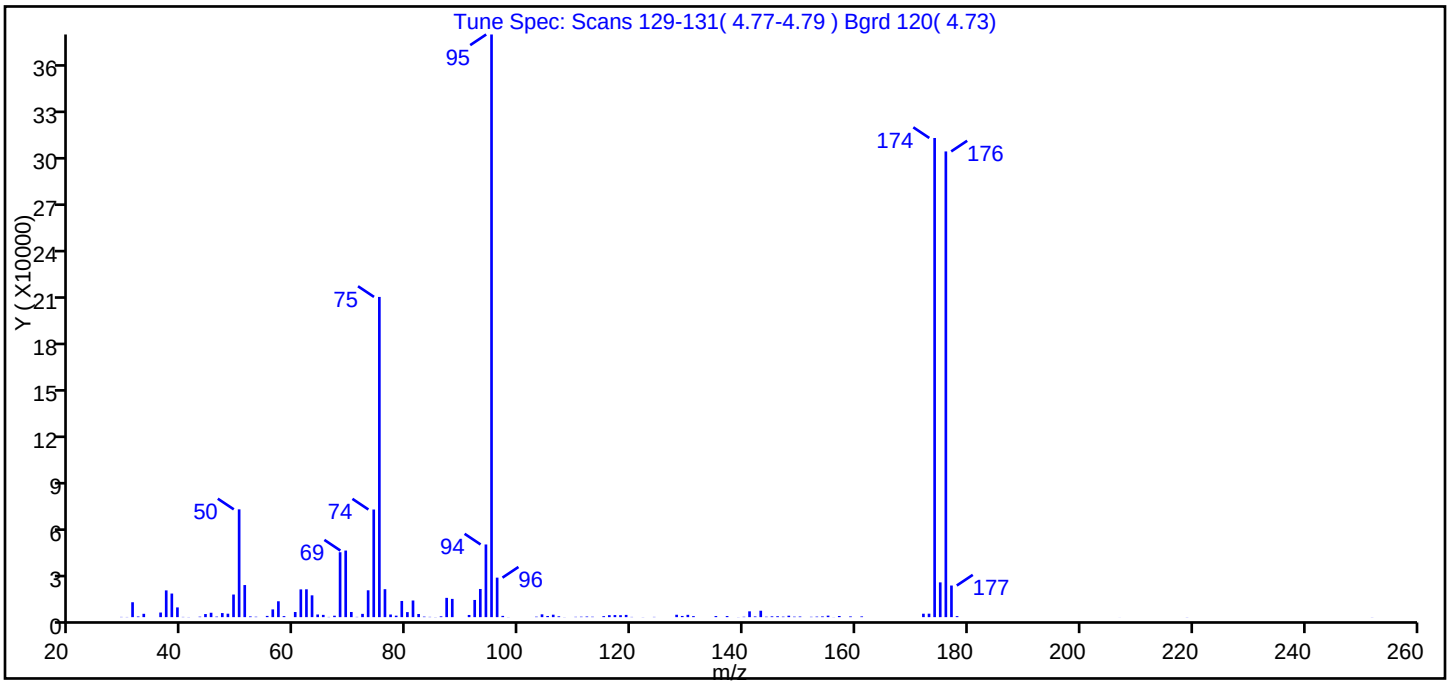
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.780	4.780	0.0	0	791681	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D
Injection Date: 14-Mar-2014 09:24:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.50
75	30.00 - 60.00% of mass 95	55.00
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	82.20
175	5.00 - 9.00% of mass 174	6.00 (7.30)
176	95.00 - 101.00% of mass 174	79.90 (97.20)
177	5.00 - 9.00% of mass 176	5.40 (6.80)

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D\ME_TO15.rslt\spectra.d
Injection Date: 14-Mar-2014 09:24:30
Spectrum: Tune Spec: Scans 129-131(4.77-4.79) Bgrd 120(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	151	63.00	14130	95.00	377536	141.00	3765
30.00	114	64.00	1721	96.00	25592	142.00	473
31.00	9657	65.00	1474	97.00	817	143.00	4158
32.00	407	66.00	149	98.00	68	144.00	291
33.00	2169	67.00	927	103.00	308	145.00	526
36.00	2989	68.00	42056	104.00	1827	146.00	590
37.00	17336	69.00	43144	105.00	753	147.00	332
38.00	15290	70.00	3347	106.00	1593	148.00	928
39.00	6309	71.00	166	107.00	540	149.00	324
40.00	154	72.00	2125	108.00	75	150.00	412
41.00	100	73.00	17400	110.00	210	152.00	225
42.00	2	74.00	69736	111.00	294	153.00	354
43.00	304	75.00	207488	112.00	415	154.00	473
44.00	2008	76.00	18112	113.00	267	155.00	969
45.00	2840	77.00	1700	115.00	630	156.00	69
46.00	347	78.00	961	116.00	1281	157.00	741
47.00	2639	79.00	10482	117.00	1341	159.00	469
48.00	2242	80.00	3251	118.00	1263	161.00	476
49.00	14652	81.00	10787	119.00	1449	172.00	2228
50.00	69840	82.00	2045	120.00	150	173.00	2244
51.00	20792	83.00	342	122.00	74	174.00	310464
52.00	470	84.00	181	124.00	161	175.00	22528
53.00	271	85.00	90	128.00	1550	176.00	301760
55.00	802	86.00	527	129.00	770	177.00	20488
56.00	5024	87.00	12491	130.00	1496	178.00	654
57.00	10284	88.00	11821	131.00	656	207.00	31
58.00	661	91.00	1411	135.00	721	219.00	75
60.00	3327	92.00	11138	137.00	715	252.00	66
61.00	17984	93.00	18248	139.00	73		
62.00	18048	94.00	47088	140.00	256		

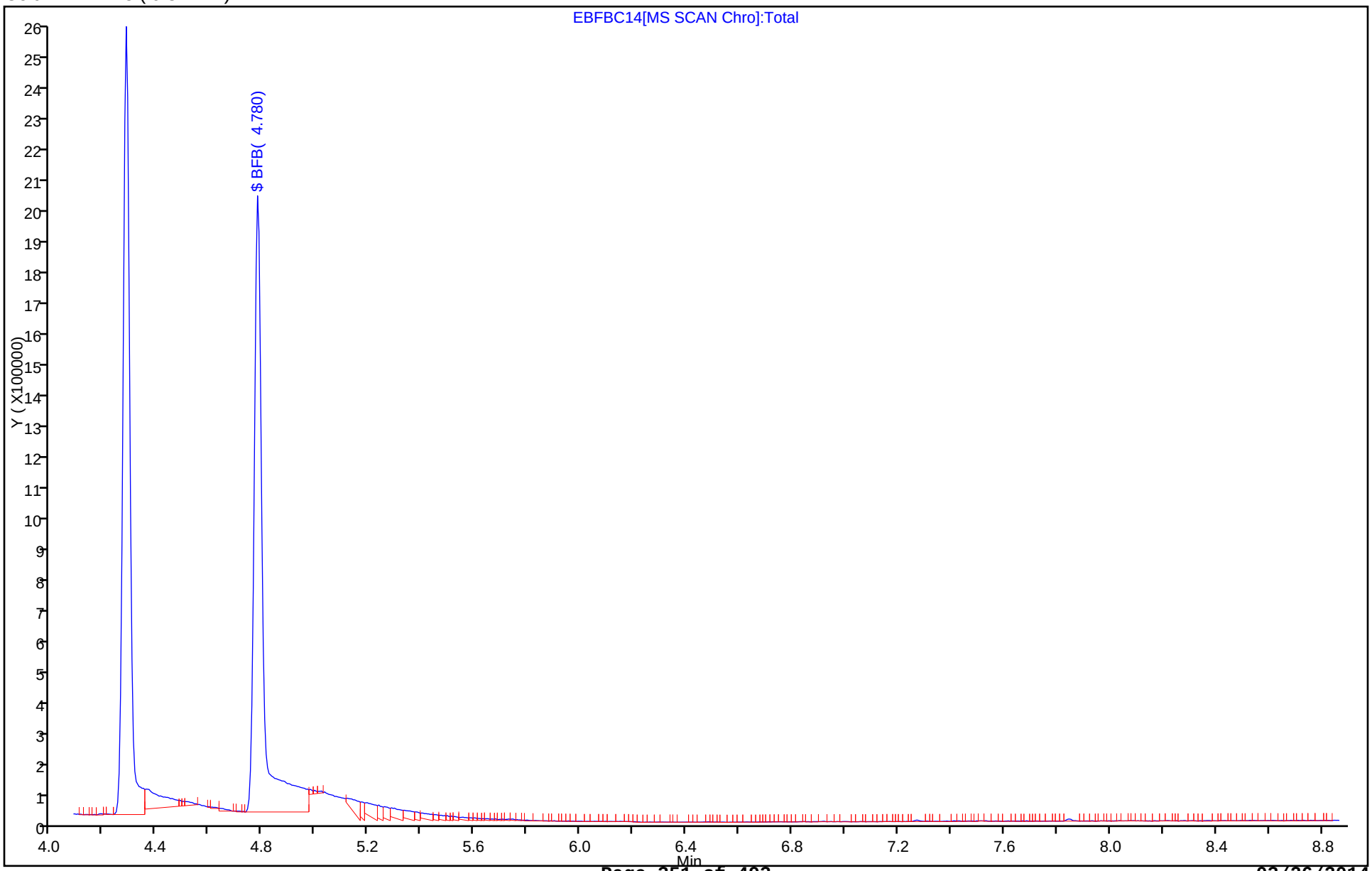
Report Date: 14-Mar-2014 10:33:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\EBFBC14.D

Injection Date:	14-Mar-2014 09:24:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Mar-2014 13:39:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031714,BFB,,140-0000525-001				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 10:44:37	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 10:44:37		

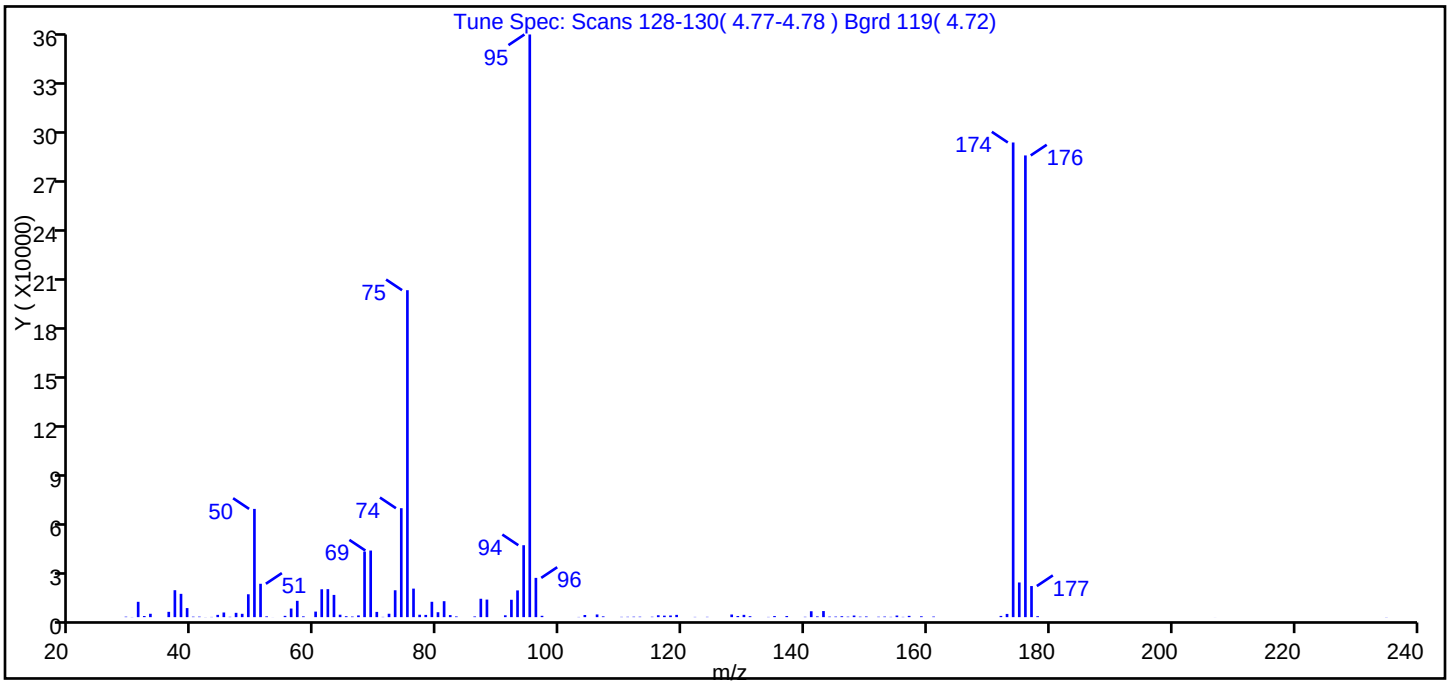
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.775	4.775	0.0	0	731051	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D
Injection Date: 17-Mar-2014 13:39:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	56.10
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	81.50
175	5.00 - 9.00% of mass 174	5.90 (7.30)
176	95.00 - 101.00% of mass 174	79.20 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D\ME_TO15.rslt\spectra.d
Injection Date: 17-Mar-2014 13:39:30
Spectrum: Tune Spec: Scans 128-130(4.77-4.78) Bgrd 119(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	288	61.00	17080	93.00	16384	141.00	3616
30.00	94	62.00	17152	94.00	44072	142.00	446
31.00	9393	63.00	13621	95.00	356992	143.00	3728
32.00	683	64.00	1487	96.00	24056	144.00	321
33.00	2068	65.00	566	97.00	825	145.00	341
36.00	3249	66.00	364	103.00	126	146.00	562
37.00	16504	67.00	1058	104.00	1314	147.00	294
38.00	14276	68.00	40192	106.00	1638	148.00	989
39.00	5550	69.00	40800	107.00	476	149.00	297
40.00	296	70.00	3218	110.00	179	150.00	416
41.00	308	71.00	155	111.00	217	152.00	252
42.00	63	72.00	2083	112.00	276	153.00	352
43.00	132	73.00	16464	113.00	274	154.00	171
44.00	1392	74.00	66744	115.00	246	155.00	984
45.00	2846	75.00	200320	116.00	1166	156.00	163
46.00	208	76.00	17480	117.00	918	157.00	790
47.00	2645	77.00	1474	118.00	1008	159.00	515
48.00	2044	78.00	1373	119.00	1387	161.00	357
49.00	14019	79.00	9410	122.00	150	172.00	756
50.00	66320	80.00	3013	124.00	185	173.00	1974
51.00	20448	81.00	9771	128.00	1613	174.00	290816
52.00	473	82.00	1271	129.00	687	175.00	21240
53.00	32	83.00	427	130.00	1407	176.00	282880
55.00	799	86.00	426	131.00	572	177.00	19048
56.00	5273	87.00	11266	134.00	139	178.00	569
57.00	9999	88.00	10762	135.00	664	207.00	25
58.00	471	91.00	1125	137.00	677	235.00	89
60.00	3399	92.00	10647	140.00	213		

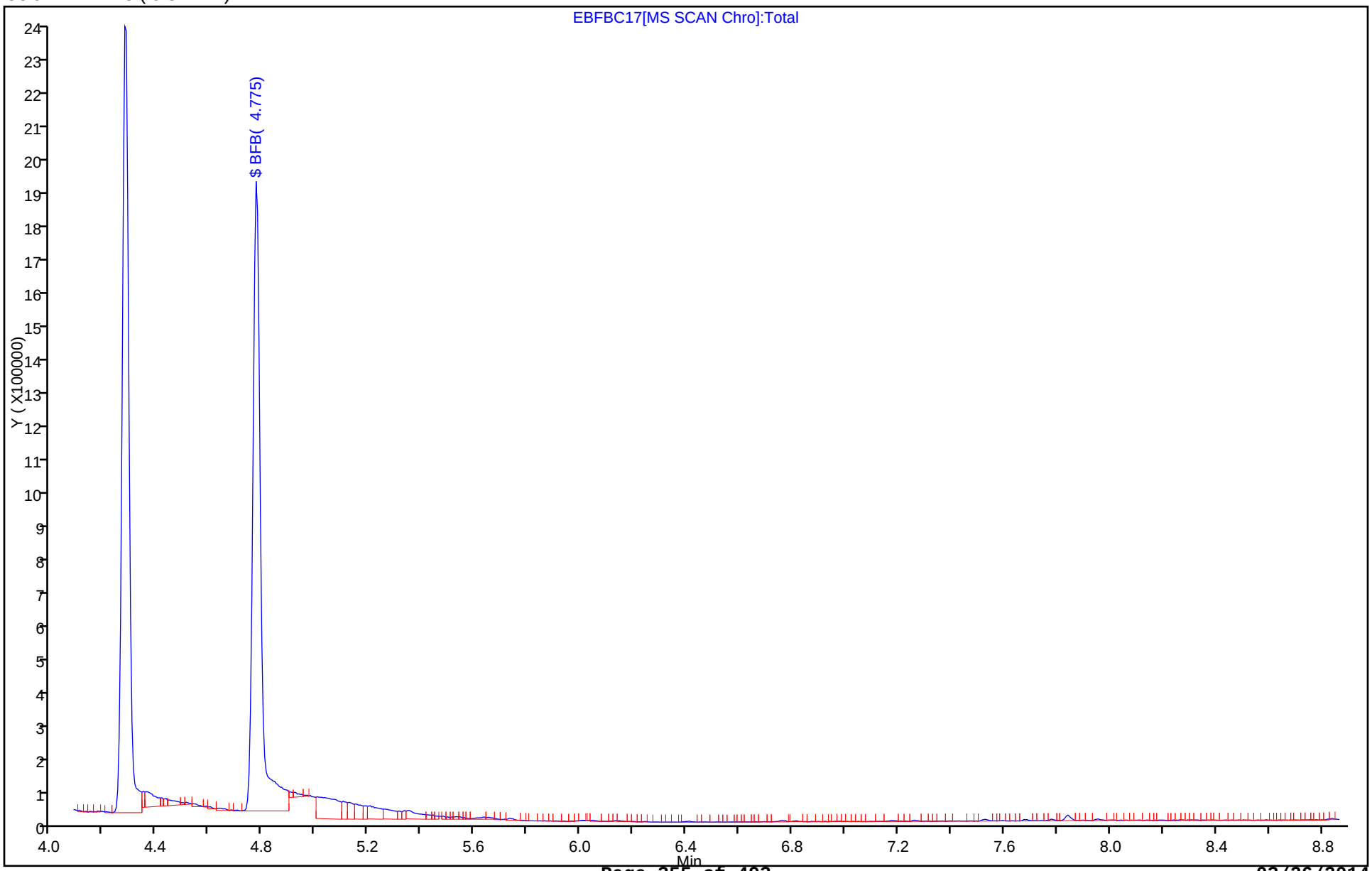
Report Date: 18-Mar-2014 10:44:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D

Injection Date:	17-Mar-2014 13:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-958/5

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/14/2014 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\MB200mL.D				
Lims ID:	mb	Lab Sample ID:	MB 140-958/5-A		
Client ID:					
Sample Type:	MB				
Inject. Date:	14-Mar-2014 14:09:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb200mL				
Misc. Info.:	E031414,TO155,,140-0000522-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Mar-2014 15:38:37	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK001				
First Level Reviewer: barlozhetskayaa		Date:	17-Mar-2014 15:38:37		

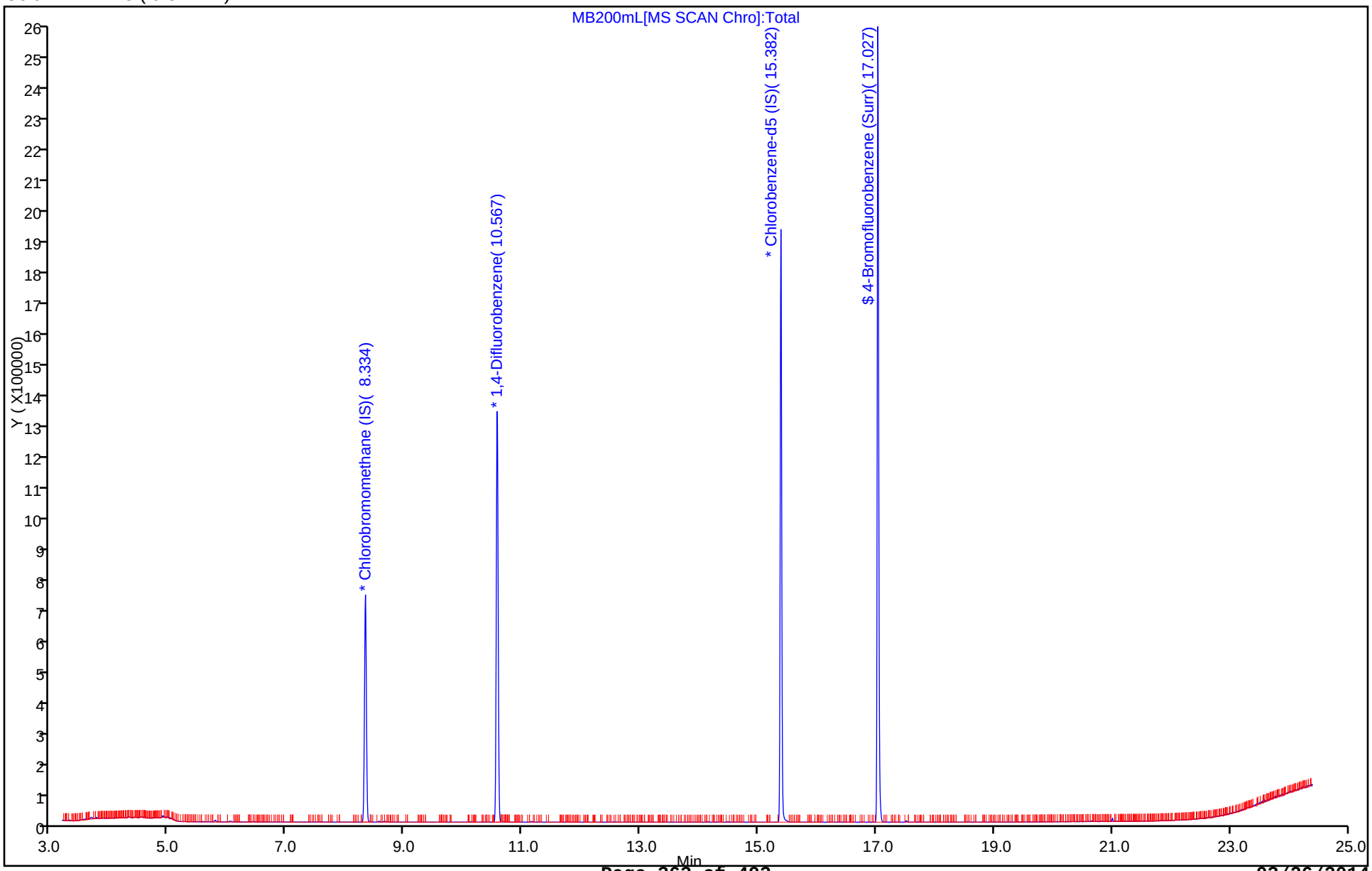
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	79	211730	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1055190	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	932935	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	854083	4.18	

Report Date: 17-Mar-2014 15:38:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140313-522.b\MB200mL.D				
Injection Date:	14-Mar-2014 14:09:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	mb	Lab Sample ID:	MB 140-958/5-A	Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Mar-2014 17:11:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB200				
Misc. Info.:	E031714,TO155,,140-0000525-005				
Operator ID:	060487	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 11:59:04	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 11:59:04		

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	189632	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	941923	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	834864	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	749693	4.10	

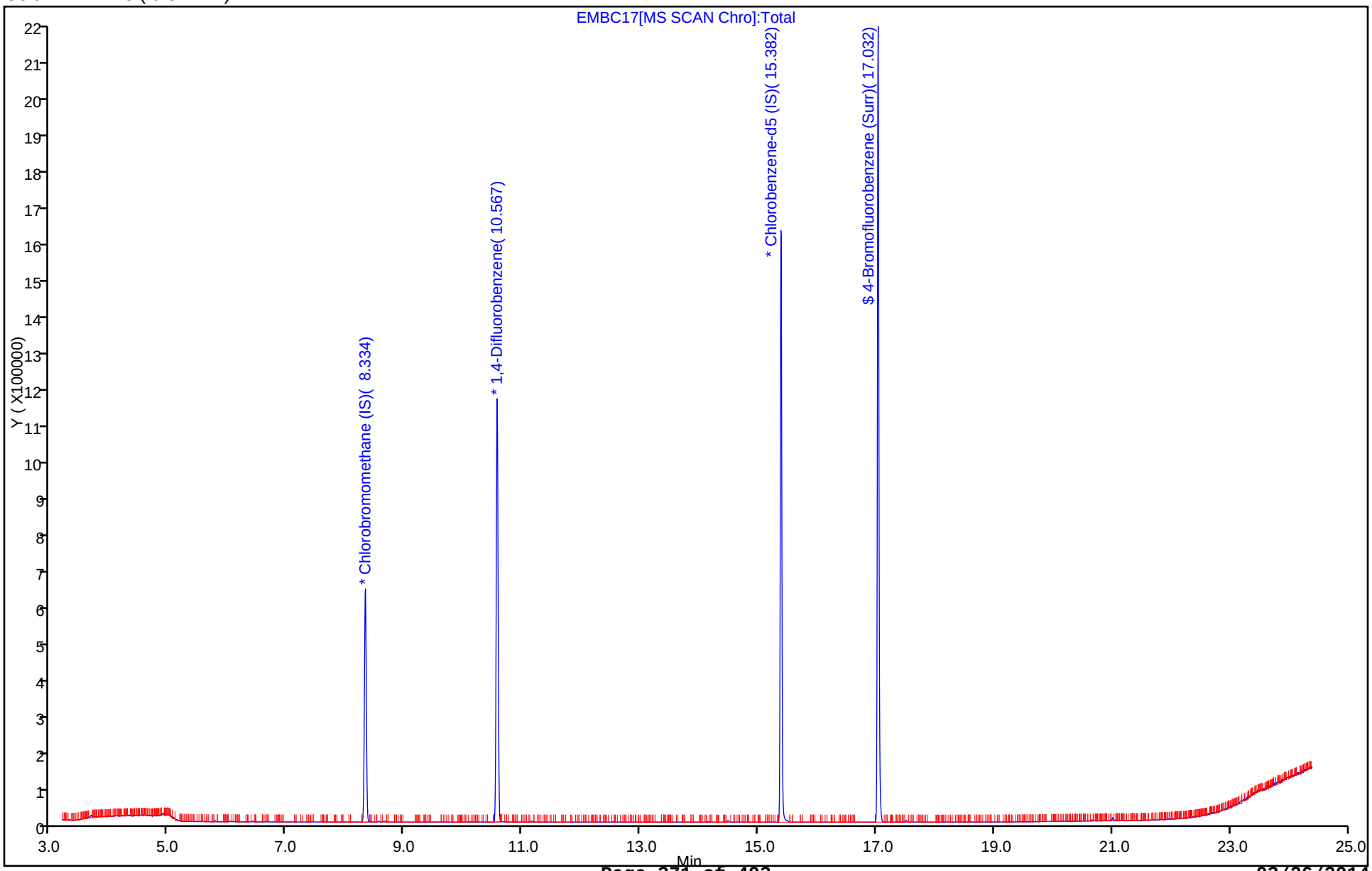
Report Date: 18-Mar-2014 11:59:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D

Injection Date:	17-Mar-2014 17:11:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.25		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.08		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.24		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.96		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.02		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.06		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.51		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.18		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.00		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.33		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.08		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.27		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.96		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.03		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.27		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.06		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.04		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.57		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.79		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.93		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.58		0.40	0.080
591-78-6	2-Hexanone	100.20	1.53		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.27		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.81		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.05		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.53		0.20	0.018
67-64-1	Acetone	58.08	1.92	J	2.0	0.56
71-43-2	Benzene	78.11	2.05		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.12		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.26		0.080	0.018
75-25-2	Bromoform	252.75	1.71		0.080	0.019
74-83-9	Bromomethane	94.94	2.53		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.16		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.45		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.98		0.080	0.020
75-00-3	Chloroethane	64.52	2.48		0.080	0.014
67-66-3	Chloroform	119.38	2.23		0.080	0.015
74-87-3	Chloromethane	50.49	2.24		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.90		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.17		0.080	0.030
110-82-7	Cyclohexane	84.16	1.93		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.02		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.49		0.080	0.027
64-17-5	Ethanol	46.07	10.3		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.05		0.080	0.027
142-82-5	Heptane	100.21	1.92		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.03		0.40	0.031
110-54-3	Hexane	86.17	1.86		0.20	0.013
496-11-7	Indane	118.18	2.09		0.080	0.080
95-13-6	Indene	116.16	2.16		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.97		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.19		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.14		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.41		0.080	0.048
91-20-3	Naphthalene	128.17	1.49		0.20	0.036
95-47-6	o-Xylene	106.17	2.10		0.080	0.024
115-07-1	Propene	42.08	1.89		0.20	0.031
100-42-5	Styrene	104.15	2.12		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.87		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.66		0.40	0.025
110-02-1	Thiophene	84.14	1.99		0.080	0.080
108-88-3	Toluene	92.14	1.94		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.99		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.99		0.080	0.019
79-01-6	Trichloroethene	131.39	1.89		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.64		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.47		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-958/1002

Matrix: Air Lab File ID: ECCVC14-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/14/2014 09:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 958 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14-LCS.d
Lims ID: LCS Lab Sample ID:
Client ID:
Sample Type: LCS
Inject. Date: 14-Mar-2014 09:55:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031414,TO155,,140-0000522-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140313-522.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Mar-2014 15:36:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: barlozhetskayaa Date: 17-Mar-2014 15:36:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	205602	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	1014056	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	970133	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	931480	4.38	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	71470	2.48	
7 Propene	41	3.314	3.314	0.0	92	97644	1.89	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	566107	2.49	
9 Chloromethane	52	3.530	3.530	0.0	97	40617	2.24	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	94	318943	2.33	
11 Acetaldehyde	44	3.681	3.681	0.0	91	200456	11.6	
12 Vinyl chloride	62	3.691	3.691	0.0	99	173341	2.47	
14 Butane	43	3.772	3.772	0.0	82	220221	2.24	
13 Butadiene	54	3.772	3.772	0.0	71	109849	2.27	
15 Bromomethane	94	4.080	4.080	0.0	98	191471	2.53	
16 Chloroethane	64	4.209	4.209	0.0	95	88135	2.48	
17 Ethanol	31	4.317	4.317	0.0	98	211853	10.3	
18 Vinyl bromide	106	4.495	4.495	0.0	96	179146	2.62	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163362	2.27	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	603178	2.64	
20 Acrolein	56	4.765	4.765	0.0	97	51672	2.38	
22 Acetonitrile	40	4.840	4.840	0.0	96	48111	2.46	
23 Acetone	58	4.883	4.883	0.0	78	59731	1.92	
25 Pentane	72	4.959	4.959	0.0	97	34964	2.59	
24 Isopropyl alcohol	45	4.975	4.975	0.0	74	157651	1.97	
26 Ethyl ether	31	5.126	5.126	0.0	84	117656	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	125864	2.06	
29 2-Methyl-2-propanol	59	5.557	5.557	0.0	94	180186	1.59	
28 Acrylonitrile	53	5.563	5.563	0.0	84	73506	2.04	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	93	315786	2.24	
31 Methylene Chloride	84	5.795	5.795	0.0	84	125776	2.14	
32 3-Chloro-1-propene	39	5.805	5.805	0.0	84	139634	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	459076	2.16	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	149416	1.99	
35 2-Methylpentane	43	6.603	6.603	0.0	86	245067	1.81	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	94	408873	2.19	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	256538	2.02	
38 Vinyl acetate	43	7.132	7.132	0.0	99	244308	1.95	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	53018	1.58	
40 Hexane	56	7.590	7.590	0.0	81	101884	1.86	
41 cis-1,2-Dichloroethene	96	8.011	8.011	0.0	97	133213	1.90	
42 Ethyl acetate	43	8.205	8.205	0.0	97	195528	1.79	
43 Chloroform	83	8.356	8.356	0.0	97	392003	2.23	
44 Tetrahydrofuran	42	8.755	8.755	0.0	75	87665	1.66	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	448661	2.25	
46 1,2-Dichloroethane	62	9.504	9.504	0.0	97	282083	2.27	
47 n-Butanol	31	9.963	9.963	0.0	85	22740	1.20	
49 Cyclohexane	69	9.984	9.984	0.0	86	73723	1.93	
48 Benzene	78	9.995	9.995	0.0	97	417909	2.05	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	480794	2.45	
51 2,3-Dimethylpentane	71	10.119	10.119	0.0	84	91722	1.93	
52 Thiophene	84	10.286	10.286	0.0	95	252099	1.99	
53 Isooctane	57	10.788	10.788	0.0	95	564466	1.79	
54 n-Heptane	71	11.182	11.182	0.0	81	148202	1.92	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	128263	1.96	
56 Trichloroethene	130	11.306	11.306	0.0	89	190552	1.89	
57 Dibromomethane	93	11.397	11.397	0.0	91	204894	2.13	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	433906	2.26	
59 1,4-Dioxane	88	11.570	11.570	0.0	92	42522	1.57	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	142115	1.85	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	270823	1.88	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	94	183419	1.53	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	250632	2.17	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	261262	1.99	
65 Toluene	91	13.403	13.403	0.0	93	504008	1.94	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	149600	1.96	
67 2-Methylthiophene	97	13.560	13.560	0.0	98	434757	1.93	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	436209	1.92	
69 2-Hexanone	58	13.878	13.878	0.0	94	93766	1.53	
70 n-Octane	85	14.099	14.099	0.0	79	175521	1.89	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	350453	2.02	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	273809	2.00	
73 Tetrachloroethene	129	14.552	14.552	0.0	91	207225	1.87	
74 Chlorobenzene	112	15.436	15.436	0.0	81	410789	1.98	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	80	348844	1.75	
76 Ethylbenzene	91	15.722	15.722	0.0	99	681944	2.05	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	548958	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	1156010	4.41	
81 n-Nonane	57	16.304	16.304	0.0	79	262810	1.81	
79 Bromoform	173	16.337	16.337	0.0	94	266355	1.71	
80 Styrene	104	16.353	16.353	0.0	97	384971	2.12	
82 o-Xylene	91	16.412	16.412	0.0	97	595223	2.10	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	346176	2.08	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	127375	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	774948	2.07	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	194979	1.99	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	182596	1.96	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	732948	2.05	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	330056	2.03	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	81	282618	2.11	
91 n-Decane	57	18.073	18.073	0.0	96	322565	2.10	
92 tert-Butylbenzene	119	18.213	18.213	0.0	85	681039	2.08	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	92	650269	2.18	
95 sec-Butylbenzene	105	18.488	18.488	0.0	96	856657	2.13	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	97	398928	2.06	
96 Benzyl chloride	91	18.585	18.585	0.0	96	518219	2.12	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	88	388235	2.04	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	734201	2.16	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	532570	2.11	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	490142	2.10	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	543956	2.09	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	80	383389	2.08	
103 Indene	116	19.087	19.087	0.0	86	532788	2.16	
104 n-Butylbenzene	91	19.092	19.092	0.0	95	693152	2.31	
106 Undecane	57	19.410	19.410	0.0	87	294886	2.17	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	632305	2.17	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	638558	2.21	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	399852	2.12	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	479074	1.99	
110 Dodecane	57	20.462	20.462	0.0	87	133912	1.31	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	93	185817	1.51	
112 Naphthalene	128	20.796	20.796	0.0	98	321980	1.49	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	195330	1.25	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	326307	2.03	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	92	116322	1.27	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	97	58507	5.75	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	97	50104	5.65	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1242991	1.79	
A 119 Toluene Range	1	13.400	13.355 -	13.452	0	1286522	2.13	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1468700	2.03	
S 124 Xylenes, Total	100				0		6.51	

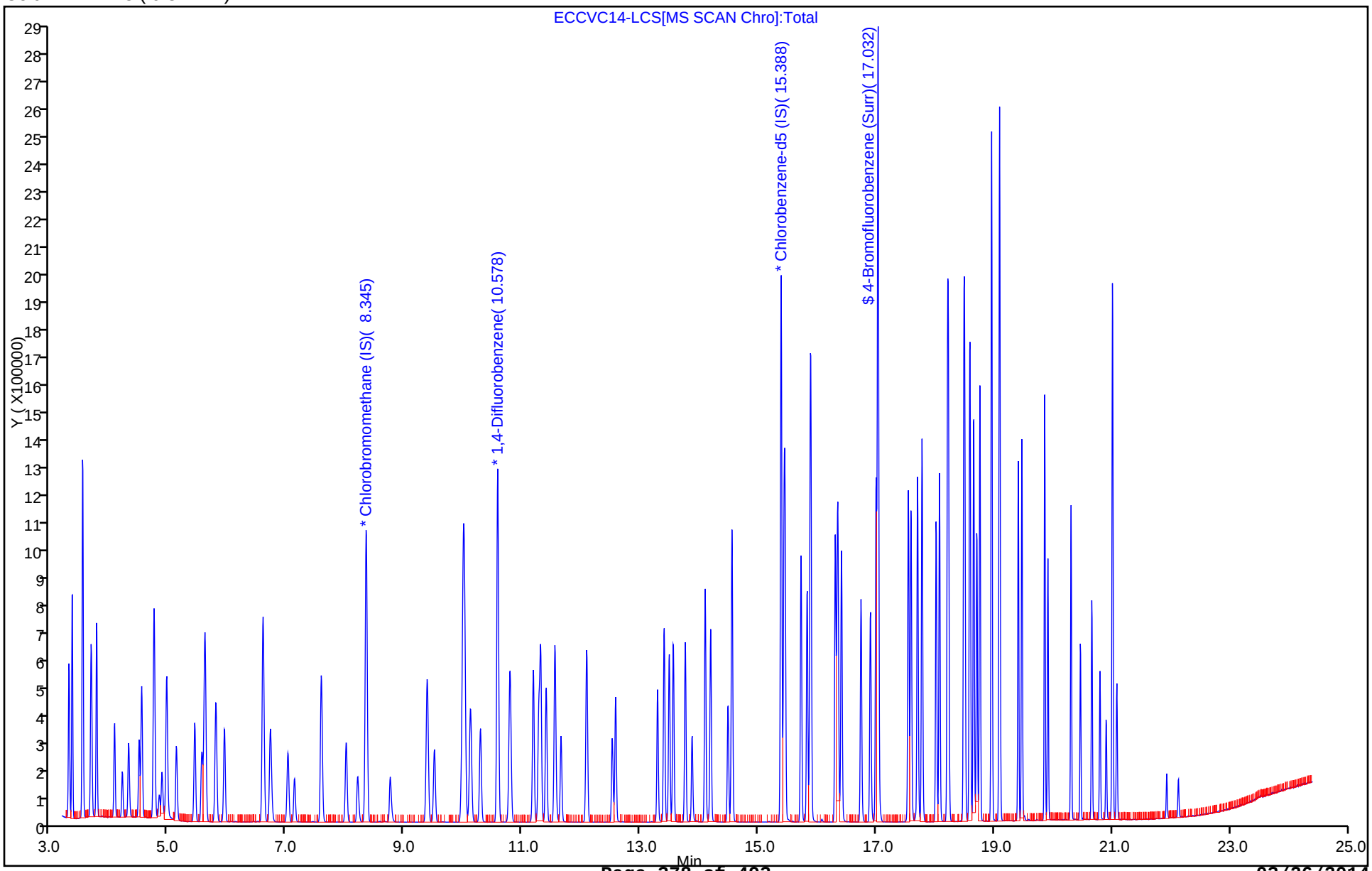
Report Date: 17-Mar-2014 15:36:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140313-522.b\ECCVC14-LCS.d

Injection Date:	14-Mar-2014 09:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS	Lab Sample ID:		Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.28		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.22		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.11		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.03		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.07		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.21		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.40		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.19		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.65		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.33		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.31		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.97		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.24		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.43		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.33		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.31		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.83		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.85		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.95		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.63		0.40	0.080
591-78-6	2-Hexanone	100.20	1.77		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.40		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.79		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.81		0.20	0.018
67-64-1	Acetone	58.08	1.98	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.54		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.31		0.080	0.018
75-25-2	Bromoform	252.75	2.57		0.080	0.019
74-83-9	Bromomethane	94.94	2.64		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.07		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.43		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.16		0.080	0.020
75-00-3	Chloroethane	64.52	2.65		0.080	0.014
67-66-3	Chloroform	119.38	2.25		0.080	0.015
74-87-3	Chloromethane	50.49	2.20		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.99		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.19		0.080	0.030
110-82-7	Cyclohexane	84.16	1.99		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.40		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.53		0.080	0.027
64-17-5	Ethanol	46.07	10.8		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.25		0.080	0.027
142-82-5	Heptane	100.21	2.03		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.42		0.40	0.031
110-54-3	Hexane	86.17	1.87		0.20	0.013
496-11-7	Indane	118.18	2.34		0.080	0.080
95-13-6	Indene	116.16	2.44		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	2.28		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.23		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.09		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.73		0.080	0.048
91-20-3	Naphthalene	128.17	2.51		0.20	0.036
95-47-6	o-Xylene	106.17	2.27		0.080	0.024
115-07-1	Propene	42.08	1.83		0.20	0.031
100-42-5	Styrene	104.15	2.32		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.11		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.65		0.40	0.025
110-02-1	Thiophene	84.14	2.04		0.080	0.080
108-88-3	Toluene	92.14	2.12		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.05		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.23		0.080	0.019
79-01-6	Trichloroethene	131.39	1.99		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.69		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.52		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

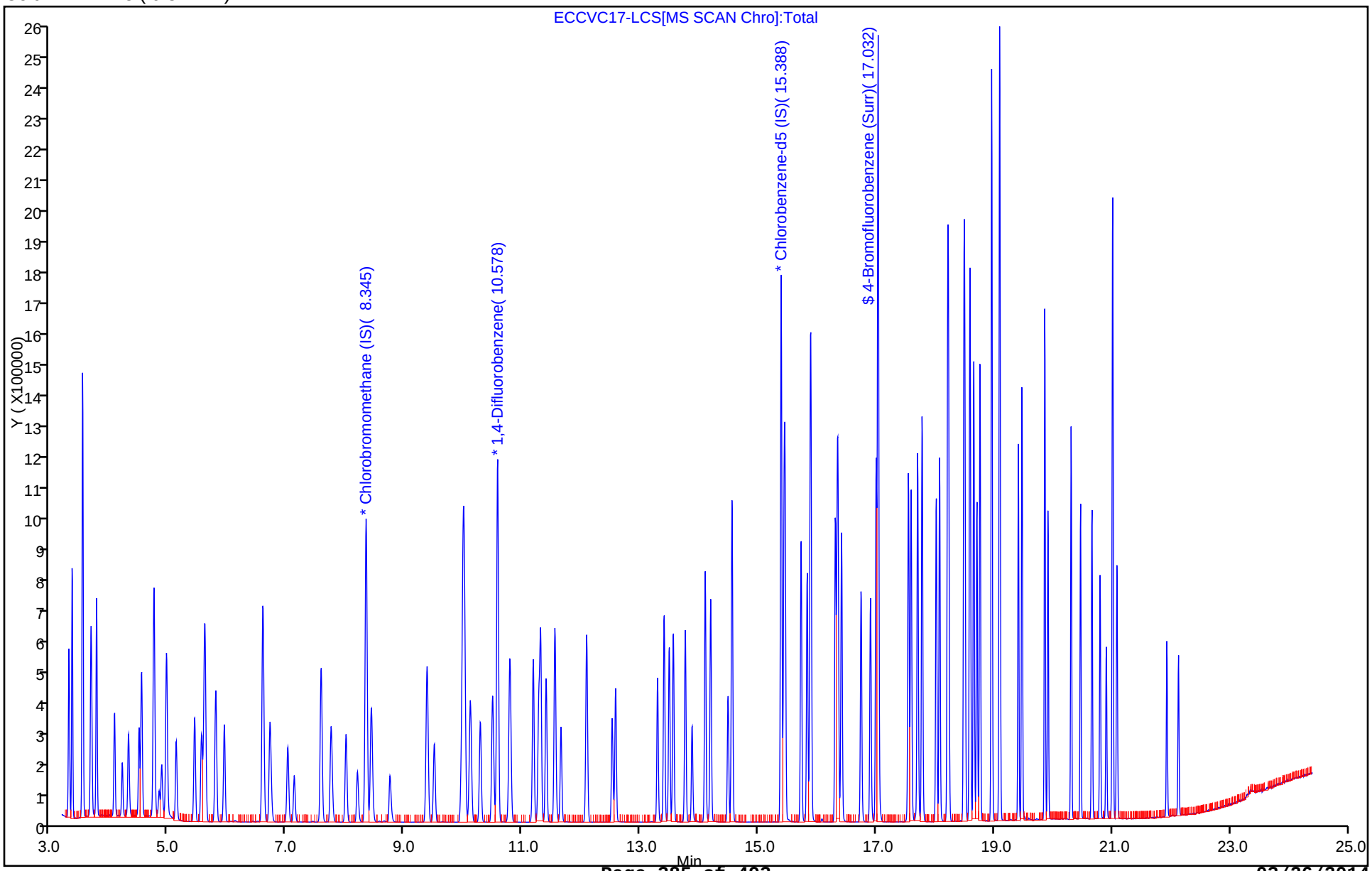
Report Date: 18-Mar-2014 11:58:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Instrument ID: ME Start Date: 03/14/2014 09:24

Analysis Batch Number: 958 End Date: 03/15/2014 08:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-958/1		03/14/2014 09:24	1	EBFBC14.D	RTX-5 0.32(mm)
CCVIS 140-958/2		03/14/2014 09:55	1	ECCVC14.D	RTX-5 0.32(mm)
LCS 140-958/1002		03/14/2014 09:55	1	ECCVC14-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/14/2014 13:25	1		RTX-5 0.32(mm)
MB 140-958/5		03/14/2014 14:09	1	MB200mL.D	RTX-5 0.32(mm)
ZZZZZ		03/14/2014 14:54	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 15:40	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 16:24	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 17:10	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 17:56	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 18:42	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 20:43	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 21:28	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 22:13	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 22:59	1		RTX-5 0.32(mm)
ZZZZZ		03/14/2014 23:45	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 00:31	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 01:16	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 02:01	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 02:46	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 03:32	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 04:18	1		RTX-5 0.32(mm)
ZZZZZ		03/15/2014 05:03	1		RTX-5 0.32(mm)
140-1054-1	PCV-IA3-B21	03/15/2014 05:49	1	EC14P202.D	RTX-5 0.32(mm)
140-1054-2	PCV-IA2-B19	03/15/2014 06:34	1	EC14P203.D	RTX-5 0.32(mm)
140-1054-3	PCV-IA1-B21	03/15/2014 07:19	1	EC14P204.D	RTX-5 0.32(mm)
140-1054-4	PCV-IA1-B19	03/15/2014 08:05	1	EC14P205.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Instrument ID: ME Start Date: 03/17/2014 13:39

Analysis Batch Number: 967 End Date: 03/18/2014 09:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-967/1		03/17/2014 13:39	1	EBFBC17.D	RTX-5 0.32(mm)
CCVIS 140-967/2		03/17/2014 14:10	1	ECCVC17.D	RTX-5 0.32(mm)
LCS 140-967/1002		03/17/2014 14:10	1	ECCVC17-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 16:25	1		RTX-5 0.32(mm)
MB 140-967/5		03/17/2014 17:11	1	EMBC17.D	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 17:56	8836.73		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 18:41	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 19:27	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:13	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:58	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 21:44	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 22:29	1		RTX-5 0.32(mm)
140-1054-6	PCV-IA2-B21	03/17/2014 23:15	1	EC17POS108.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:00	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:45	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 01:30	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 02:15	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:01	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:47	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 04:33	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 05:18	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:03	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:49	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 07:35	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 08:20	1		RTX-5 0.32(mm)
140-1054-5	PCV-IA3-B19	03/18/2014 09:06	1	EC17POS107R.D	RTX-5 0.32(mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-923-1

SDG No.:

Client Sample ID: 09872 | Lab Sample ID: 140-923-4

Matrix: Air | Lab File ID: 140-923-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:25

Sample wt/vol: 500(mL) | Date Analyzed: 02/20/2014 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-923-1

SDG No.:

Client Sample ID: 09872 | Lab Sample ID: 140-923-4

Matrix: Air | Lab File ID: 140-923-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:25

Sample wt/vol: 500(mL) | Date Analyzed: 02/20/2014 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-923-1

SDG No.:

Client Sample ID: 09872 | Lab Sample ID: 140-923-4

Matrix: Air | Lab File ID: 140-923-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/19/2014 15:25

Sample wt/vol: 500(mL) | Date Analyzed: 02/20/2014 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 862 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-923-1

SDG No.:

Client Sample ID: 09872 Lab Sample ID: 140-923-4

Matrix: Air Lab File ID: 140-923-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/19/2014 15:25

Sample wt/vol: 500(mL) Date Analyzed: 02/20/2014 16:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 862 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140219-454.b\140-923-a-4.D
Lims ID: 140-923-A-4 Lab Sample ID: 140-923-4
Client ID: 09872
Sample Type: Client
Inject. Date: 20-Feb-2014 16:32:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09872
Misc. Info.: E022014,TO155,,140-0000454-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140219-454.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Feb-2014 06:56:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: tajh Date: 21-Feb-2014 06:56:15

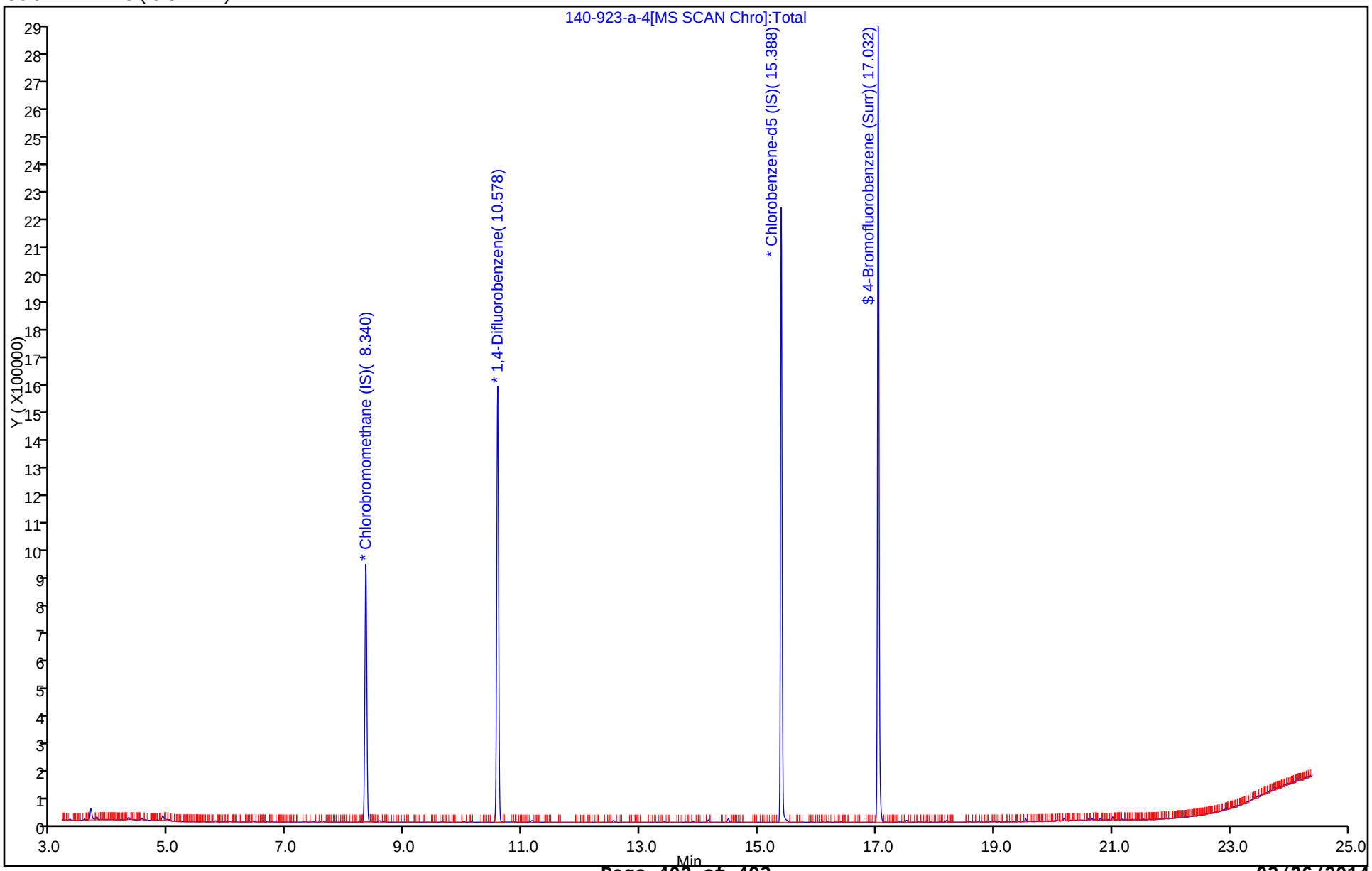
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	286366	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1331305	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1168645	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	993126	3.88	
	14 Butane	43	3.778	3.778	0.0	86	6390	0.0467	
	19 2-Methylbutane	43	4.544	4.544	0.0	72	2408	0.0240	
	62 4-Methyl-2-pentanone (MIBK)	43	12.541	12.524	0.016	81	4454	0.0282	

Report Date: 21-Feb-2014 06:56:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140219-454.b\140-923-a-4.D				
Injection Date:	20-Feb-2014 16:32:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-923-A-4	Lab Sample ID:	140-923-4	Worklist Smp#:	7
Client ID:	09872				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 Lab Sample ID: 140-941-5

Matrix: Air Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D				
Lims ID:	140-941-A-5	Lab Sample ID:	140-941-5		
Client ID:	10207				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 03:40:30	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10207				
Misc. Info.:	J022414,TO15,,140-0000467-017				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 07:36:10	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 07:36:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.400	9.403	-0.003	92	219634	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.560	-0.002	97	1060786	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.216	16.219	-0.003	93	889822	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.833	0.002	82	699453	3.94	
13 Butane	43	4.527	4.519	0.008	61	4722	0.0378	
62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.389	0.008	84	12867	0.0714	

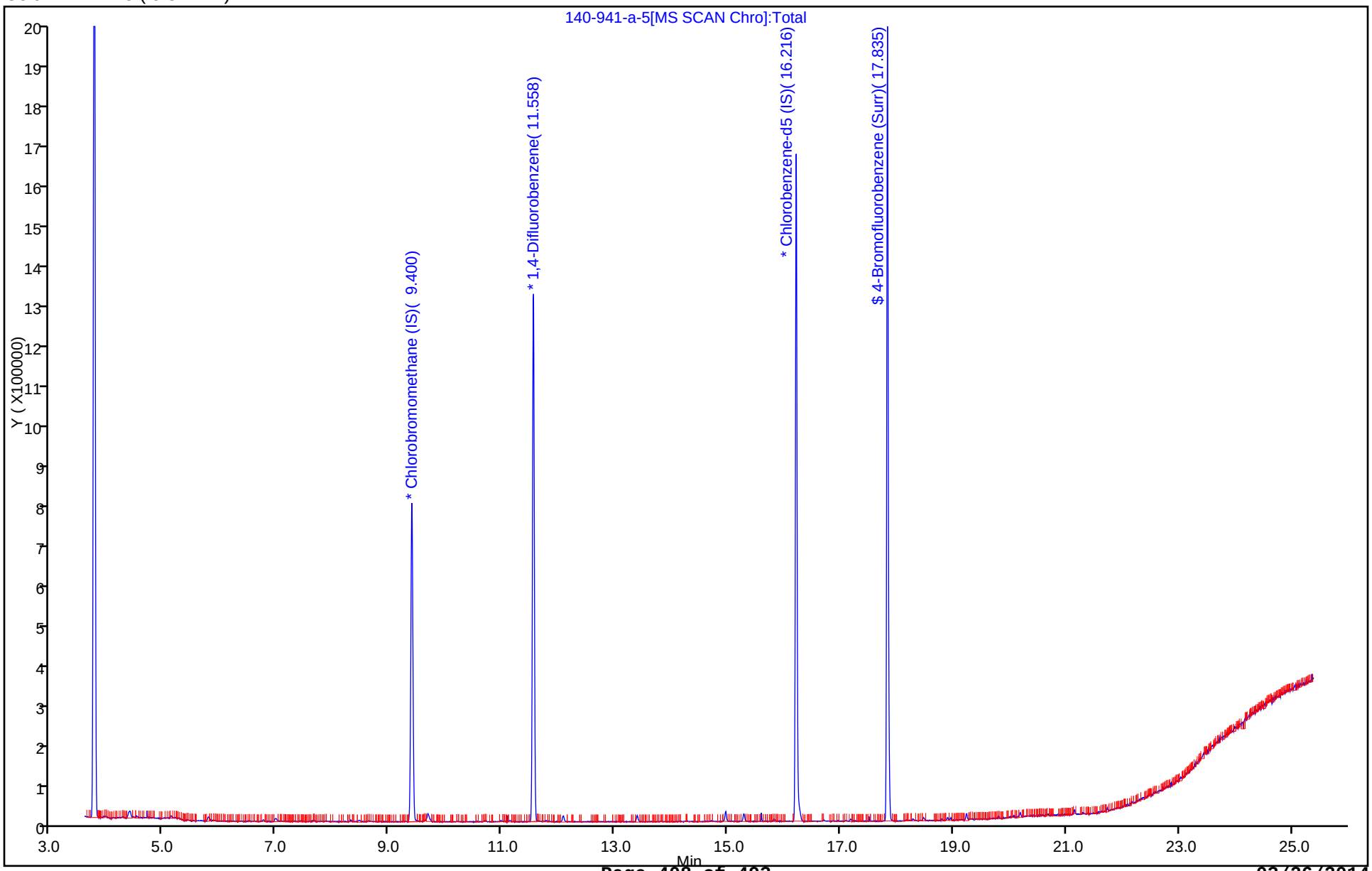
Report Date: 25-Feb-2014 07:36:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D

Injection Date:	25-Feb-2014 03:40:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-5	Lab Sample ID:	140-941-5	Worklist Smp#:	17
Client ID:	10207				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 Lab Sample ID: 140-941-6

Matrix: Air Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 | Lab Sample ID: 140-941-6

Matrix: Air | Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 | Lab Sample ID: 140-941-6

Matrix: Air | Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 Lab Sample ID: 140-941-6

Matrix: Air Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D				
Lims ID:	140-941-A-6	Lab Sample ID:	140-941-6		
Client ID:	10513				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 04:37:30	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10513				
Misc. Info.:	J022414,TO15,,140-0000467-018				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 07:36:10	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 07:36:27		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	216371	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.560	-0.004	95	971711	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	94	754923	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	81	573569	3.81	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	48	4534	0.0275	

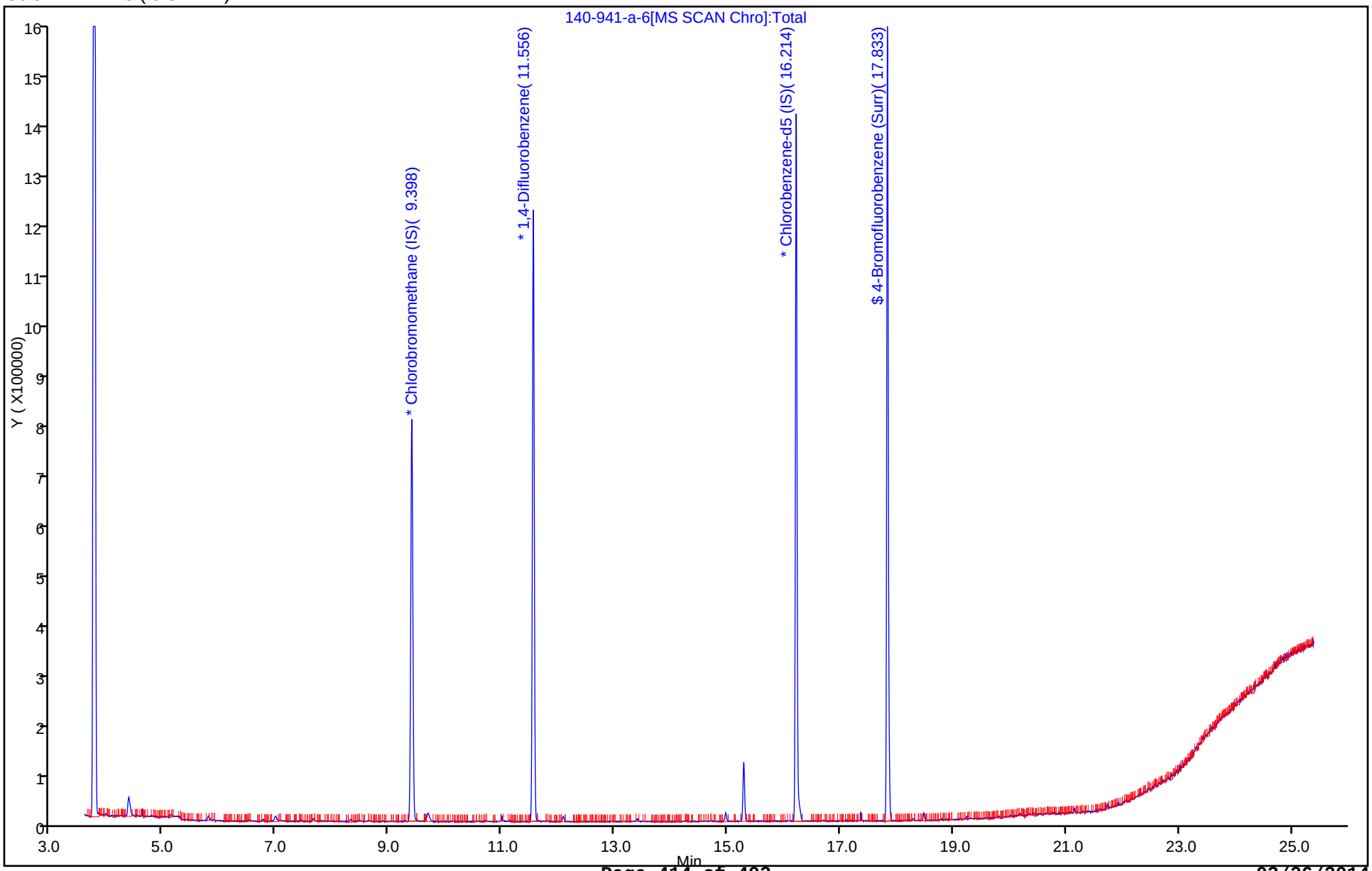
Report Date: 25-Feb-2014 07:36:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D

Injection Date:	25-Feb-2014 04:37:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-6	Lab Sample ID:	140-941-6	Worklist Smp#:	18
Client ID:	10513				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 Lab Sample ID: 140-941-9

Matrix: Air Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 | Lab Sample ID: 140-941-9

Matrix: Air | Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 | Lab Sample ID: 140-941-9

Matrix: Air | Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 Lab Sample ID: 140-941-9

Matrix: Air Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 25-Feb-2014 07:36:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D
Lims ID: 140-941-A-9 Lab Sample ID: 140-941-9
Client ID: 10852
Sample Type: Client
Inject. Date: 25-Feb-2014 05:31:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10852
Misc. Info.: J022414,TO15,,140-0000467-019
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 07:36:10 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 07:36:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	222619	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.560	-0.005	95	1087148	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.219	-0.005	94	939678	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	82	745194	3.97	
13 Butane	43	4.524	4.519	0.005	81	8459	0.0667	
19 2-Methylbutane	43	5.423	5.417	0.006	62	2601	0.0249	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	84	14779	0.0801	
69 2-Hexanone	58	14.708	14.697	0.011	51	3557	0.0500	

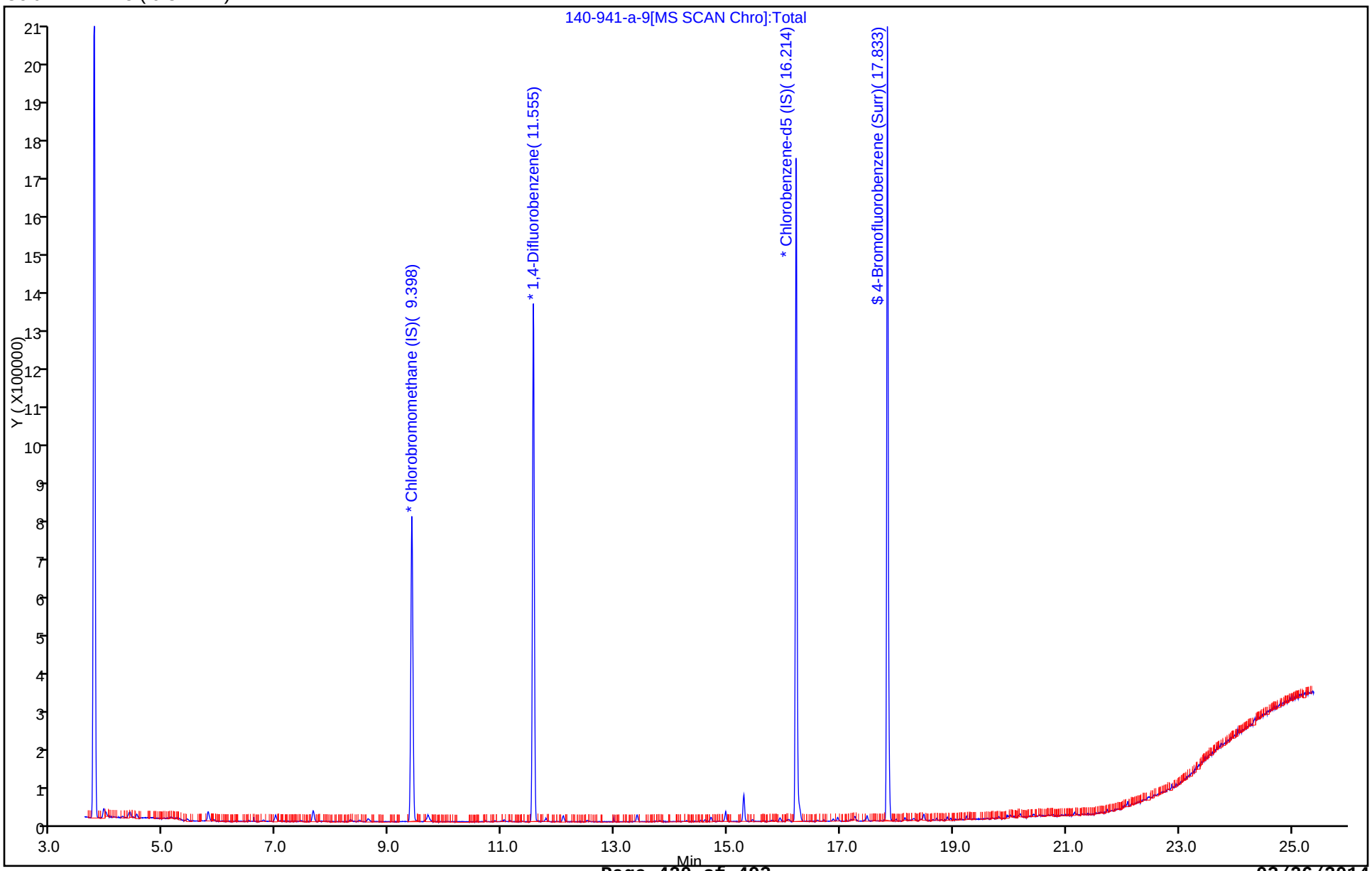
Report Date: 25-Feb-2014 07:36:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D

Injection Date:	25-Feb-2014 05:31:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-9	Lab Sample ID:	140-941-9	Worklist Smp#:	19
Client ID:	10852				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 Lab Sample ID: 140-941-11

Matrix: Air Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D				
Lims ID:	140-941-A-11	Lab Sample ID:	140-941-11		
Client ID:	10092				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 21:04:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10092				
Misc. Info.:	E022414,TO155,,140-0000468-017				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:48:39	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:48:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	254148	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1274216	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	1104896	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	959304	3.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	4188	0.0277	

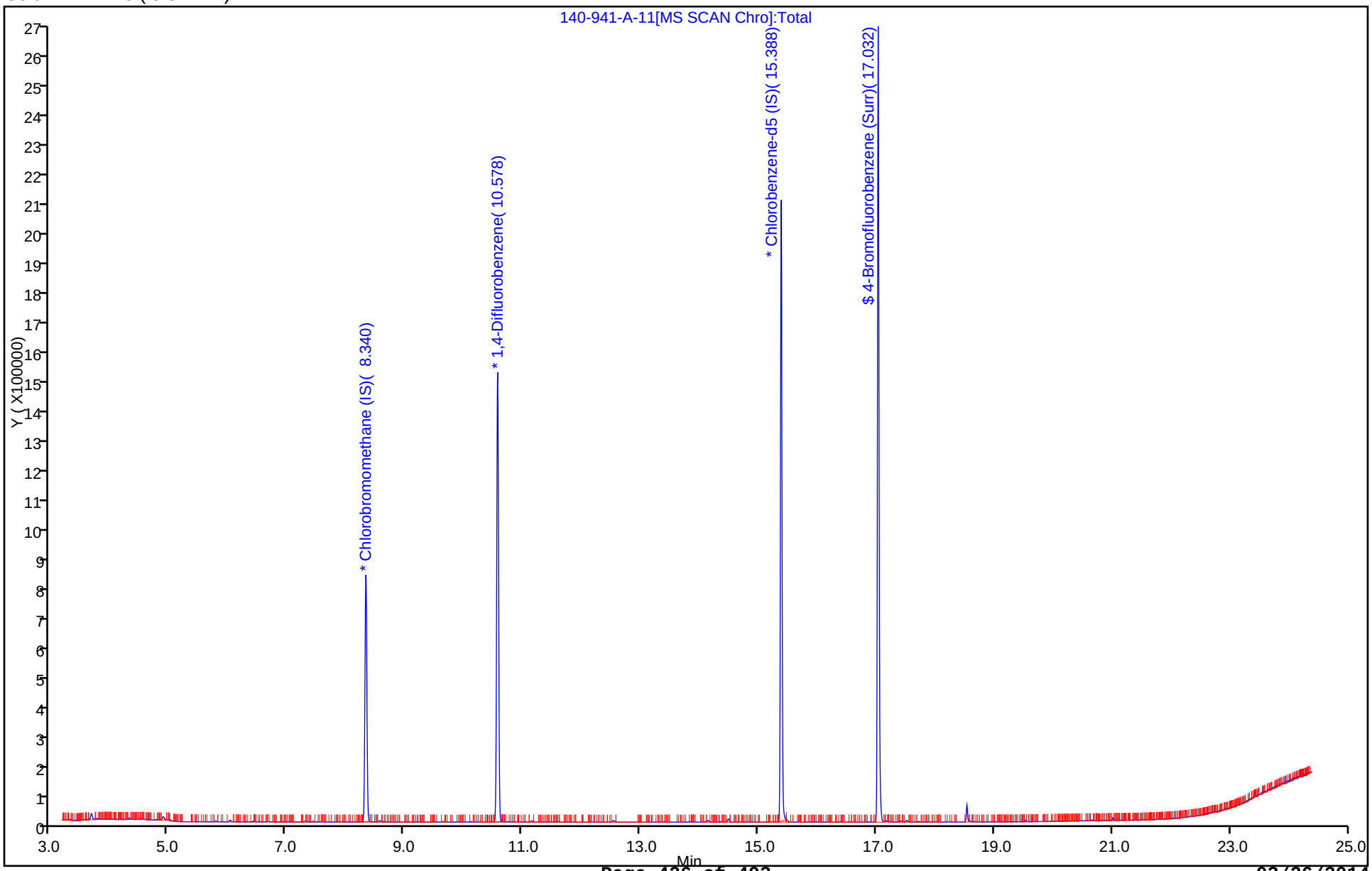
Report Date: 25-Feb-2014 08:48:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D

Injection Date:	24-Feb-2014 21:04:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-941-A-11	Lab Sample ID:	140-941-11	Worklist Smp#:	17
Client ID:	10092				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-944-1

SDG No.:

Client Sample ID: 10575 | Lab Sample ID: 140-944-15

Matrix: Air | Lab File ID: 140-944-A-15.D

Analysis Method: TO 15 LL | Date Collected: 02/22/2014 12:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/23/2014 18:00

Soil Aliquot Vol: 500 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 874 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-944-1

SDG No.:

Client Sample ID: 10575 | Lab Sample ID: 140-944-15

Matrix: Air | Lab File ID: 140-944-A-15.D

Analysis Method: TO 15 LL | Date Collected: 02/22/2014 12:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/23/2014 18:00

Soil Aliquot Vol: 500 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 874 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-944-1

SDG No.:

Client Sample ID: 10575 Lab Sample ID: 140-944-15

Matrix: Air Lab File ID: 140-944-A-15.D

Analysis Method: TO 15 LL Date Collected: 02/22/2014 12:35

Sample wt/vol: 500(mL) Date Analyzed: 02/23/2014 18:00

Soil Aliquot Vol: 500 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 874 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-944-1

SDG No.:

Client Sample ID: 10575 Lab Sample ID: 140-944-15

Matrix: Air Lab File ID: 140-944-A-15.D

Analysis Method: TO 15 LL Date Collected: 02/22/2014 12:35

Sample wt/vol: 500(mL) Date Analyzed: 02/23/2014 18:00

Soil Aliquot Vol: 500 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 874 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140221-461.b\140-944-A-15.D
Lims ID: 140-944-A-15 Lab Sample ID: 140-944-15
Client ID: 10575
Sample Type: Client
Inject. Date: 23-Feb-2014 18:00:30 ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10575
Misc. Info.: E022314,TO155,,140-0000461-005
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140221-461.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Feb-2014 08:18:46 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: tajh Date: 24-Feb-2014 07:52:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	82	272710	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1359786	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	1158778	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	976944	3.85	
14 Butane	43	3.778	3.773	0.005	81	5424	0.0416	
19 2-Methylbutane	43	4.549	4.538	0.011	78	2251	0.0236	
47 n-Butanol	31	9.990	9.958	0.032	70	1460	0.0576	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	78	4997	0.0310	

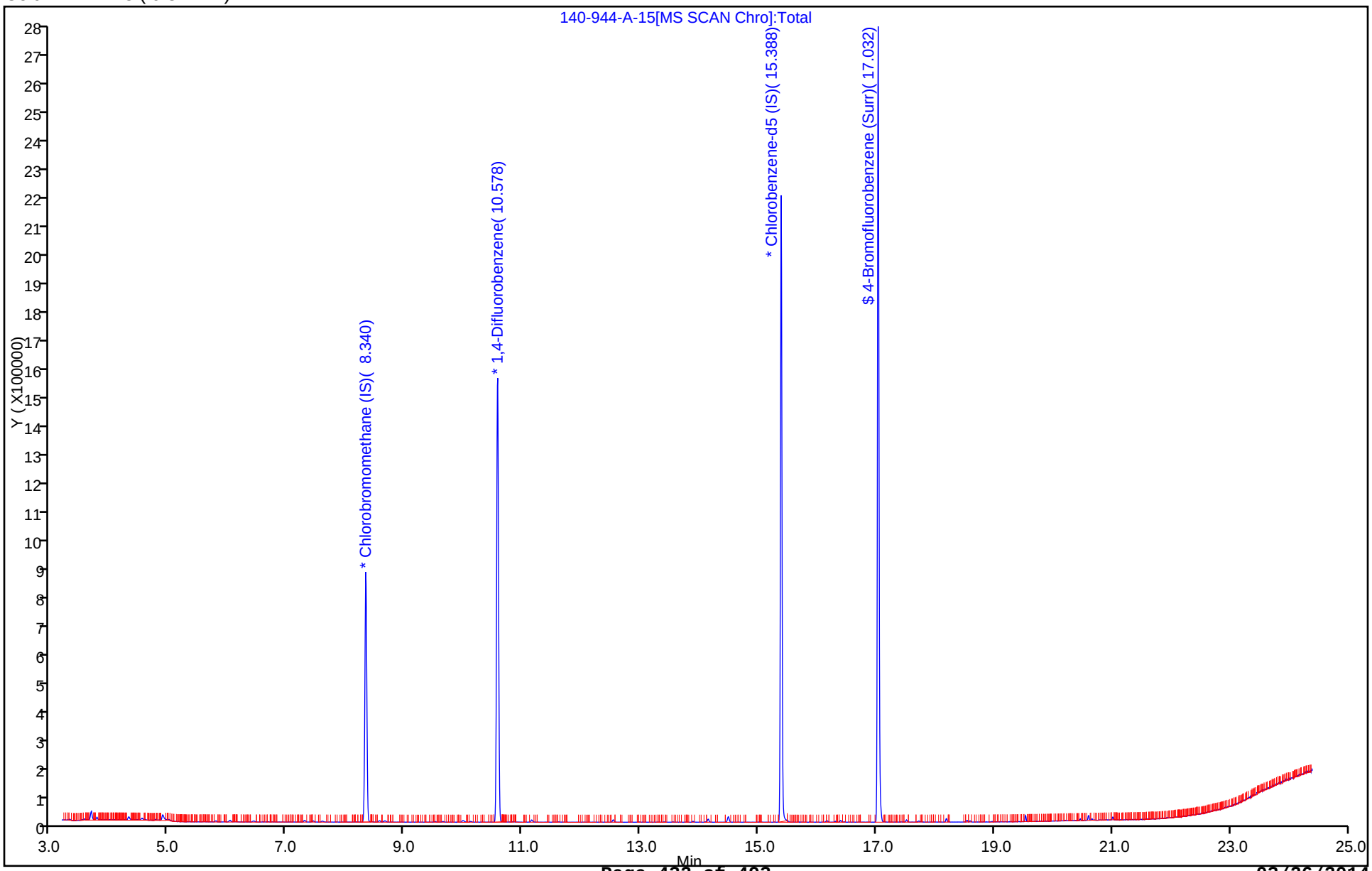
Report Date: 24-Feb-2014 09:02:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140221-461.b\140-944-A-15.D

Injection Date:	23-Feb-2014 18:00:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-944-A-15	Lab Sample ID:	140-944-15	Worklist Smp#:	5
Client ID:	10575				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 | Lab Sample ID: 140-949-1

Matrix: Air | Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10812 Lab Sample ID: 140-949-1

Matrix: Air Lab File ID: 140-949-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D				
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1		
Client ID:	10812				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 11:40:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10812				
Misc. Info.:	E022514,TO155,,140-0000471-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 12:26:07	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 12:26:07		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	82	306294	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1507231	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	1337629	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1122589	3.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	92	18454	0.1033	

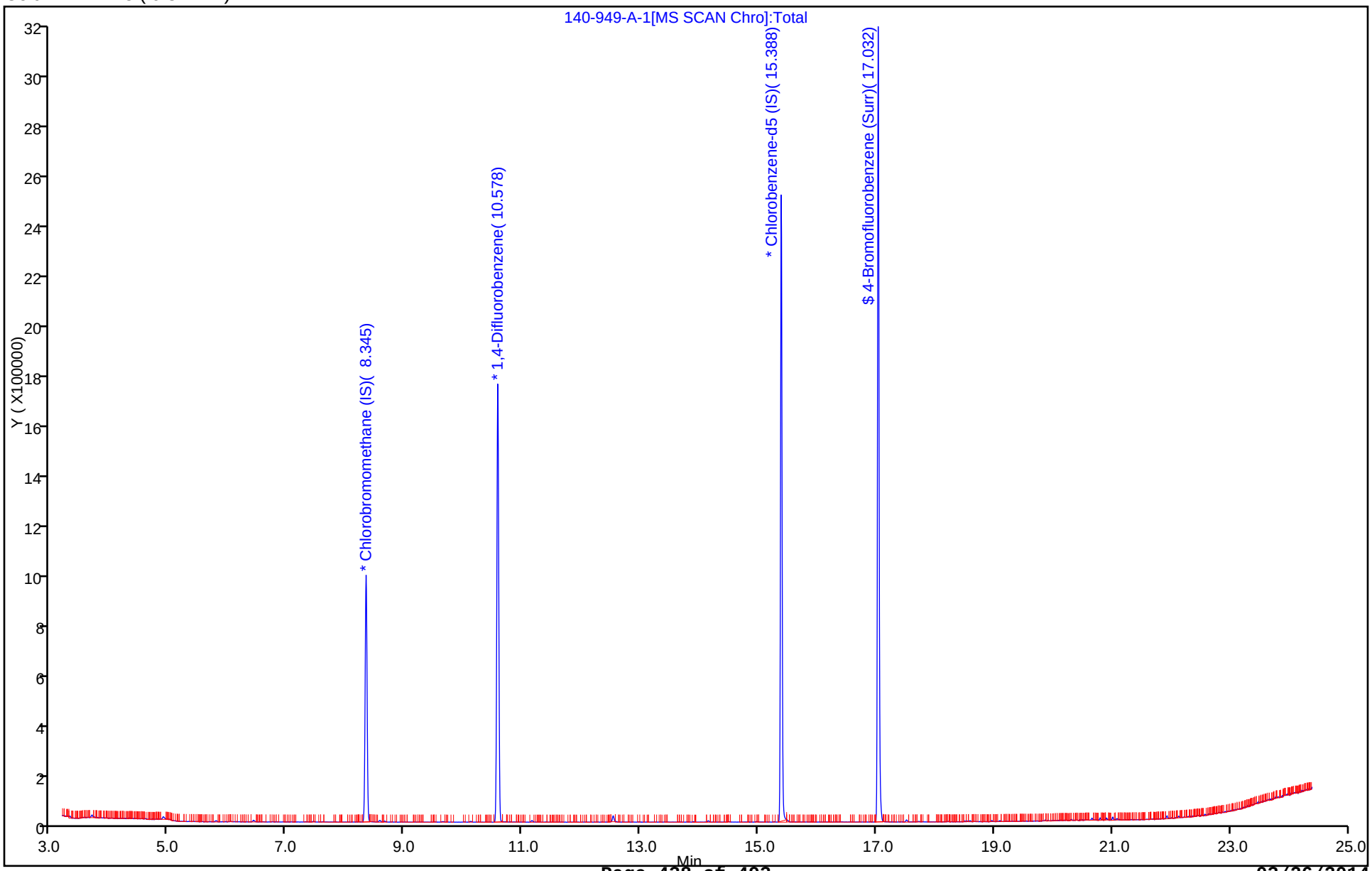
Report Date: 25-Feb-2014 12:26:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D

Injection Date:	25-Feb-2014 11:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-1	Lab Sample ID:	140-949-1	Worklist Smp#:	4
Client ID:	10812				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 | Lab Sample ID: 140-949-2

Matrix: Air | Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10313 Lab Sample ID: 140-949-2

Matrix: Air Lab File ID: 140-949-A-2.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D				
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2		
Client ID:	10313				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 12:26:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10313				
Misc. Info.:	E022514,TO155,,140-0000471-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 13:03:34	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 13:03:34		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	294774	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1499739	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1288944	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1101247	3.90	

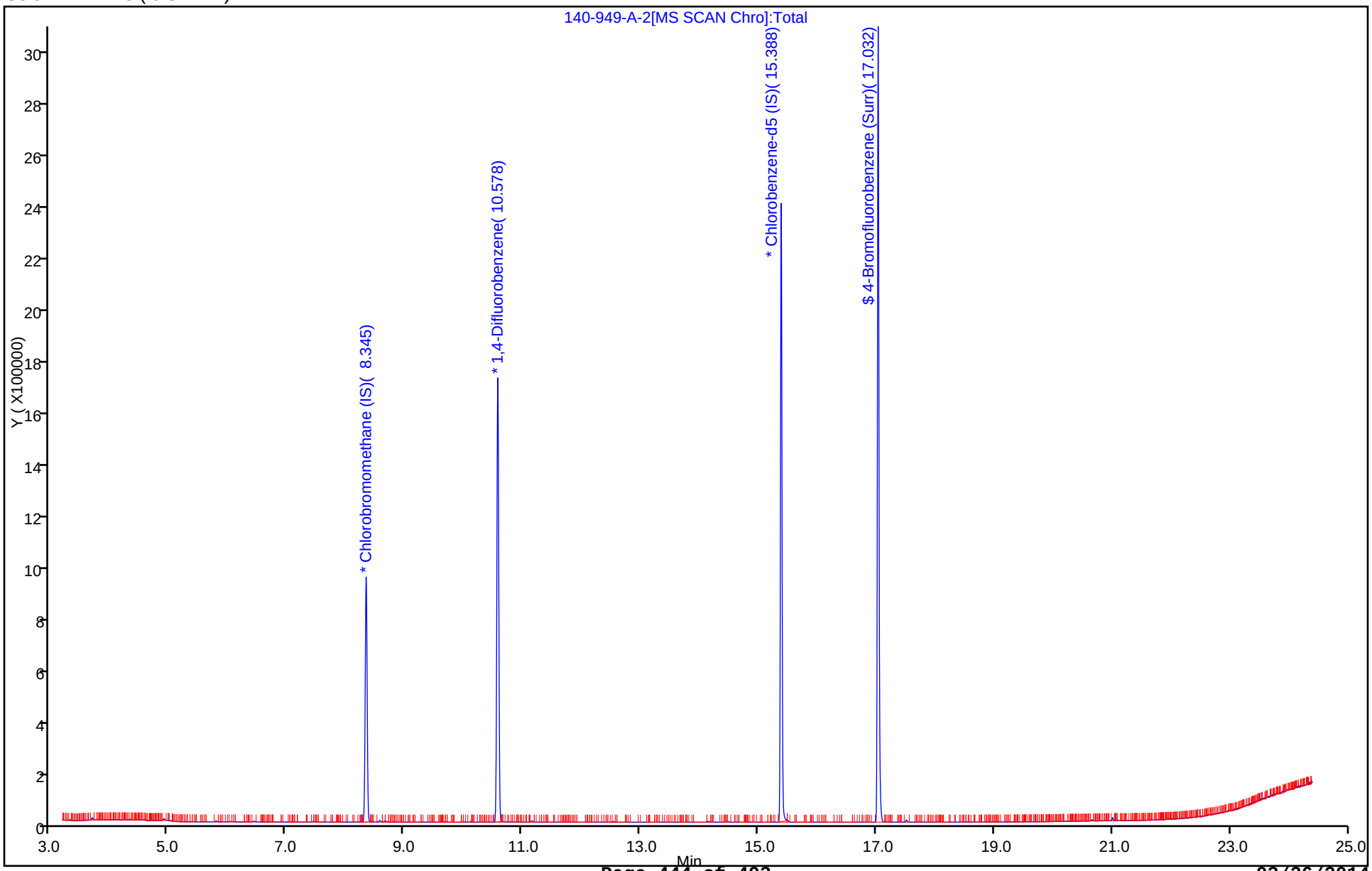
Report Date: 25-Feb-2014 13:03:34 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D

Injection Date:	25-Feb-2014 12:26:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-2	Lab Sample ID:	140-949-2	Worklist Smp#:	5
Client ID:	10313				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 | Lab Sample ID: 140-949-4

Matrix: Air | Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 Lab Sample ID: 140-949-4

Matrix: Air Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 11039 Lab Sample ID: 140-949-4

Matrix: Air Lab File ID: 140-949-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D				
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4		
Client ID:	11039				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 13:56:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11039				
Misc. Info.:	E022514,TO155,,140-0000471-007				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 07:27:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 07:27:53		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	264346	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1342143	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	95	1158094	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	984708	3.88	

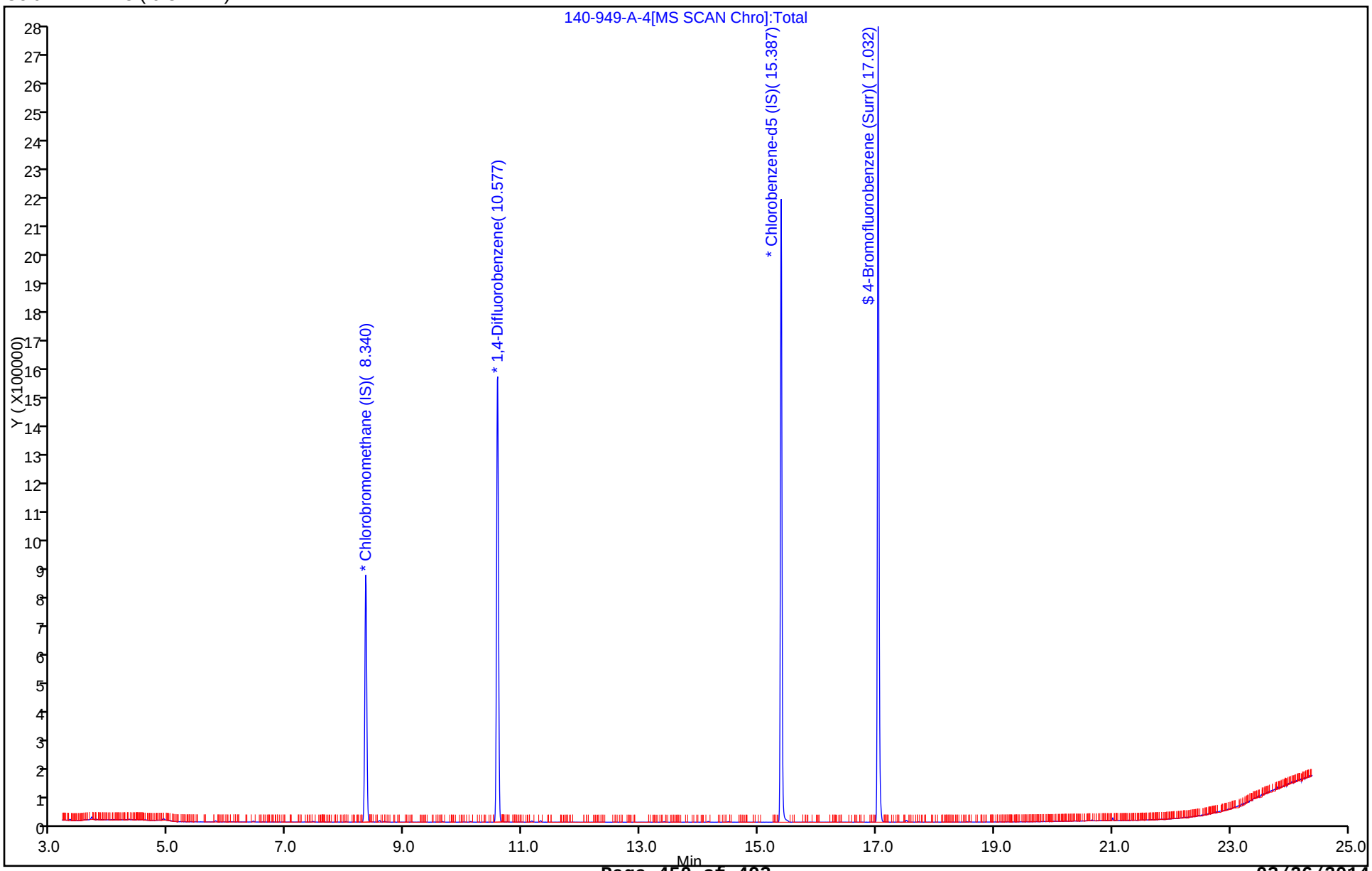
Report Date: 26-Feb-2014 07:27:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D

Injection Date:	25-Feb-2014 13:56:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-4	Lab Sample ID:	140-949-4	Worklist Smp#:	7
Client ID:	11039				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 | Lab Sample ID: 140-949-8

Matrix: Air | Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10422 Lab Sample ID: 140-949-8

Matrix: Air Lab File ID: 140-949-A-8.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D				
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8		
Client ID:	10422				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 18:06:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10422				
Misc. Info.:	E022514,TO155,,140-0000471-011				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:14:17	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:14:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	255164	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1319915	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1149179	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	1013272	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	89	18325	0.1171	

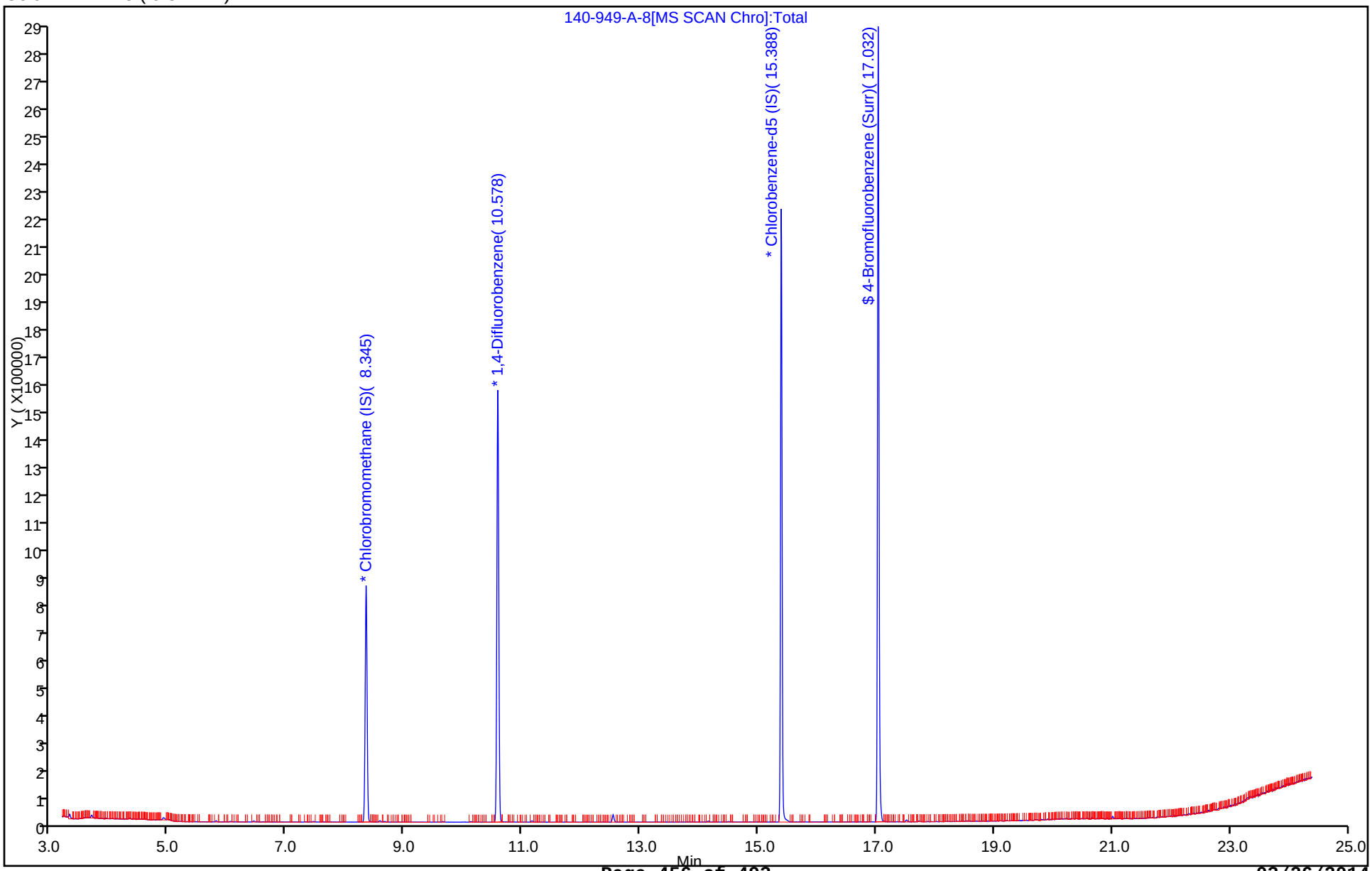
Report Date: 26-Feb-2014 08:14:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D

Injection Date:	25-Feb-2014 18:06:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-8	Lab Sample ID:	140-949-8	Worklist Smp#:	11
Client ID:	10422				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 | Lab Sample ID: 140-949-10

Matrix: Air | Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10001 Lab Sample ID: 140-949-10

Matrix: Air Lab File ID: 140-949-A-10.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D				
Lims ID:	140-949-A-10	Lab Sample ID:	140-949-10		
Client ID:	10001				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 19:37:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10001				
Misc. Info.:	E022514,TO155,,140-0000471-013				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:16:06	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:16:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	247450	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1268499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1117715	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	993164	4.06	

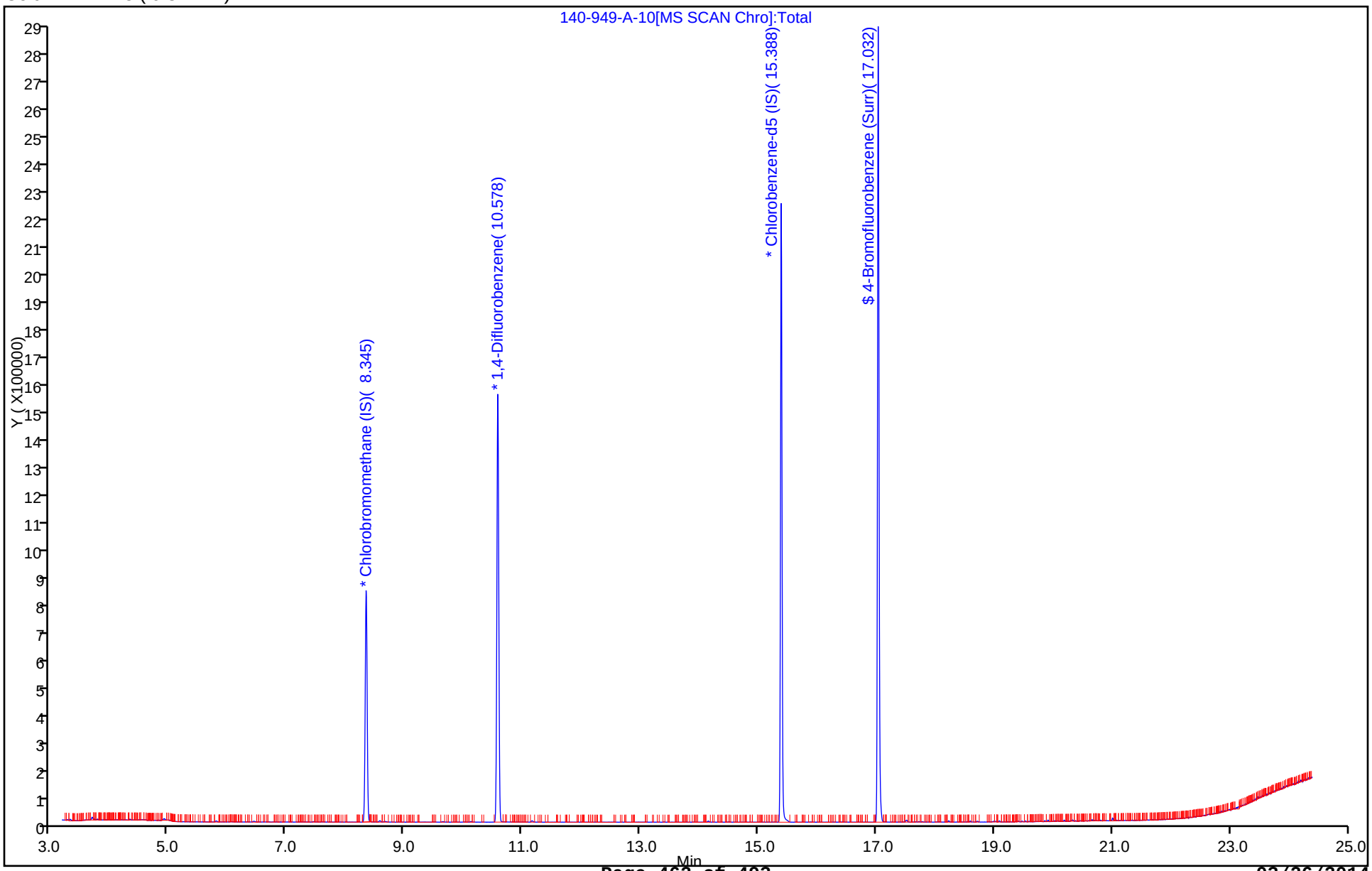
Report Date: 26-Feb-2014 08:16:08 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D

Injection Date:	25-Feb-2014 19:37:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-10	Lab Sample ID:	140-949-10	Worklist Smp#:	13
Client ID:	10001				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	0.22		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 | Lab Sample ID: 140-949-11

Matrix: Air | Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10130 Lab Sample ID: 140-949-11

Matrix: Air Lab File ID: 140-949-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D
Lims ID: 140-949-A-11 Lab Sample ID: 140-949-11
Client ID: 10130
Sample Type: Client
Inject. Date: 25-Feb-2014 20:23:30 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10130
Misc. Info.: E022514,TO155,,140-0000471-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:16:25 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	245700	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1254222	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1098538	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	966120	4.02	
59 1,4-Dioxane	88	11.586	11.564	0.022	84	7320	0.2185	

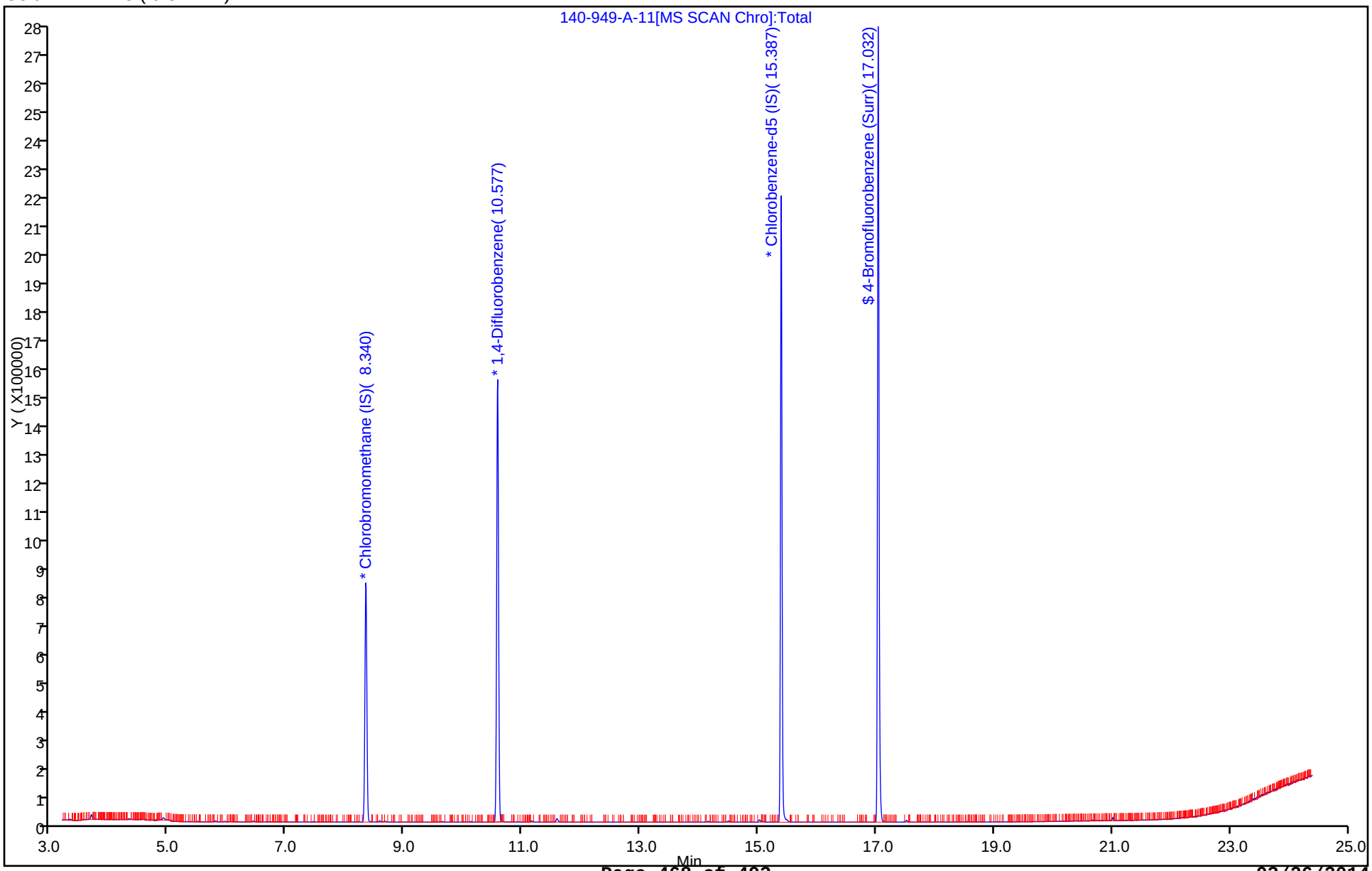
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11	Worklist Smp#:	14
Client ID:	10130				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



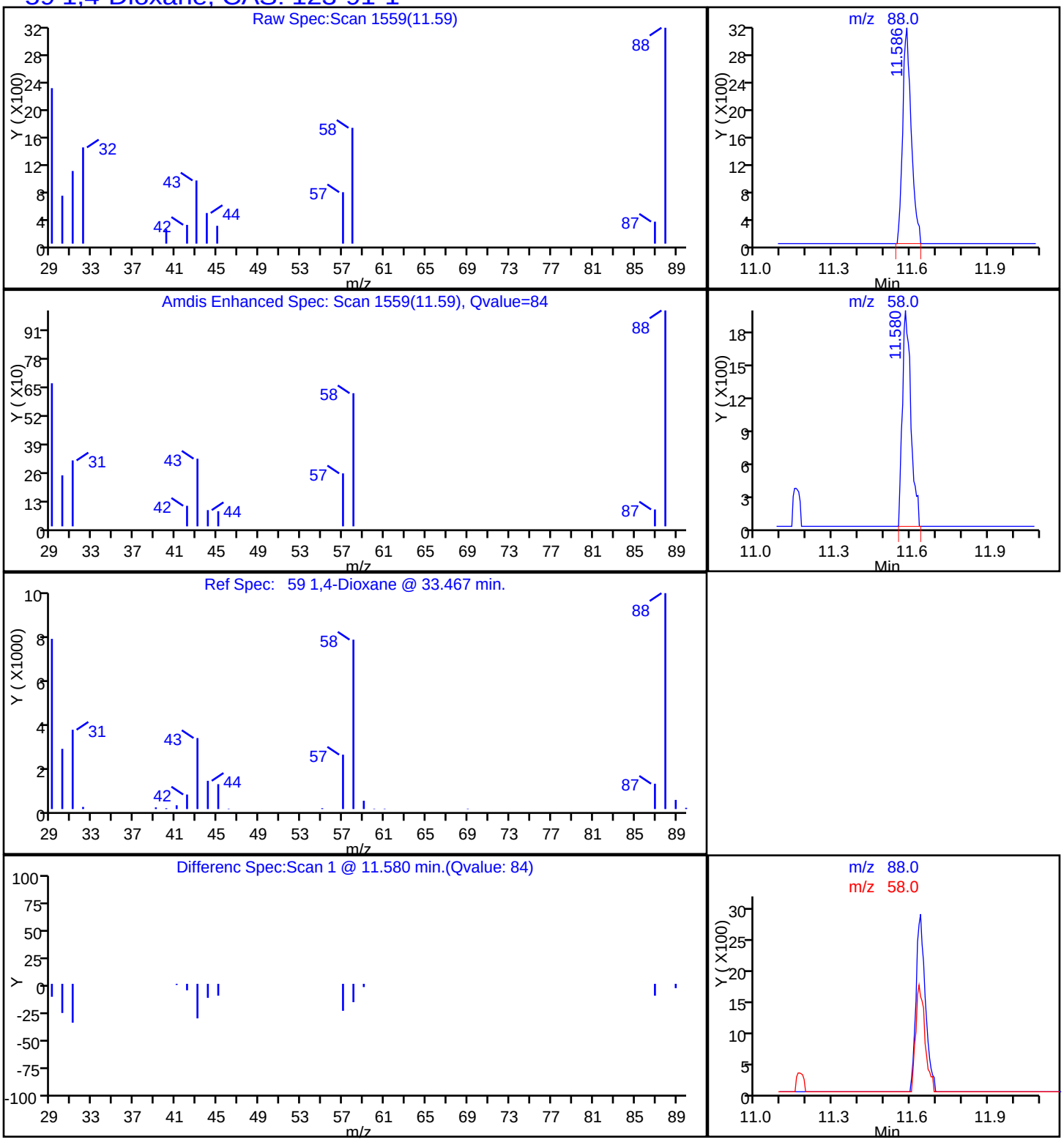
Report Date: 26-Feb-2014 08:16:27 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date:	25-Feb-2014 20:23:30	Instrument ID:	ME		
Lims ID:	140-949-A-11	Lab Sample ID:	140-949-11		
Client ID:	10130				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

59 1,4-Dioxane, CAS: 123-91-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 | Lab Sample ID: 140-949-12

Matrix: Air | Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 Lab Sample ID: 140-949-12

Matrix: Air Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10711 Lab Sample ID: 140-949-12

Matrix: Air Lab File ID: 140-949-A-12.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D				
Lims ID:	140-949-A-12	Lab Sample ID:	140-949-12		
Client ID:	10711				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 21:09:30	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10711				
Misc. Info.:	E022514,TO155,,140-0000471-015				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:16:51	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:16:51		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	239168	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1193974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	94	1063904	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940008	4.03	
33 Carbon disulfide	76	5.951	5.946	0.005	97	14820	0.0599	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	93	21418	0.1514	

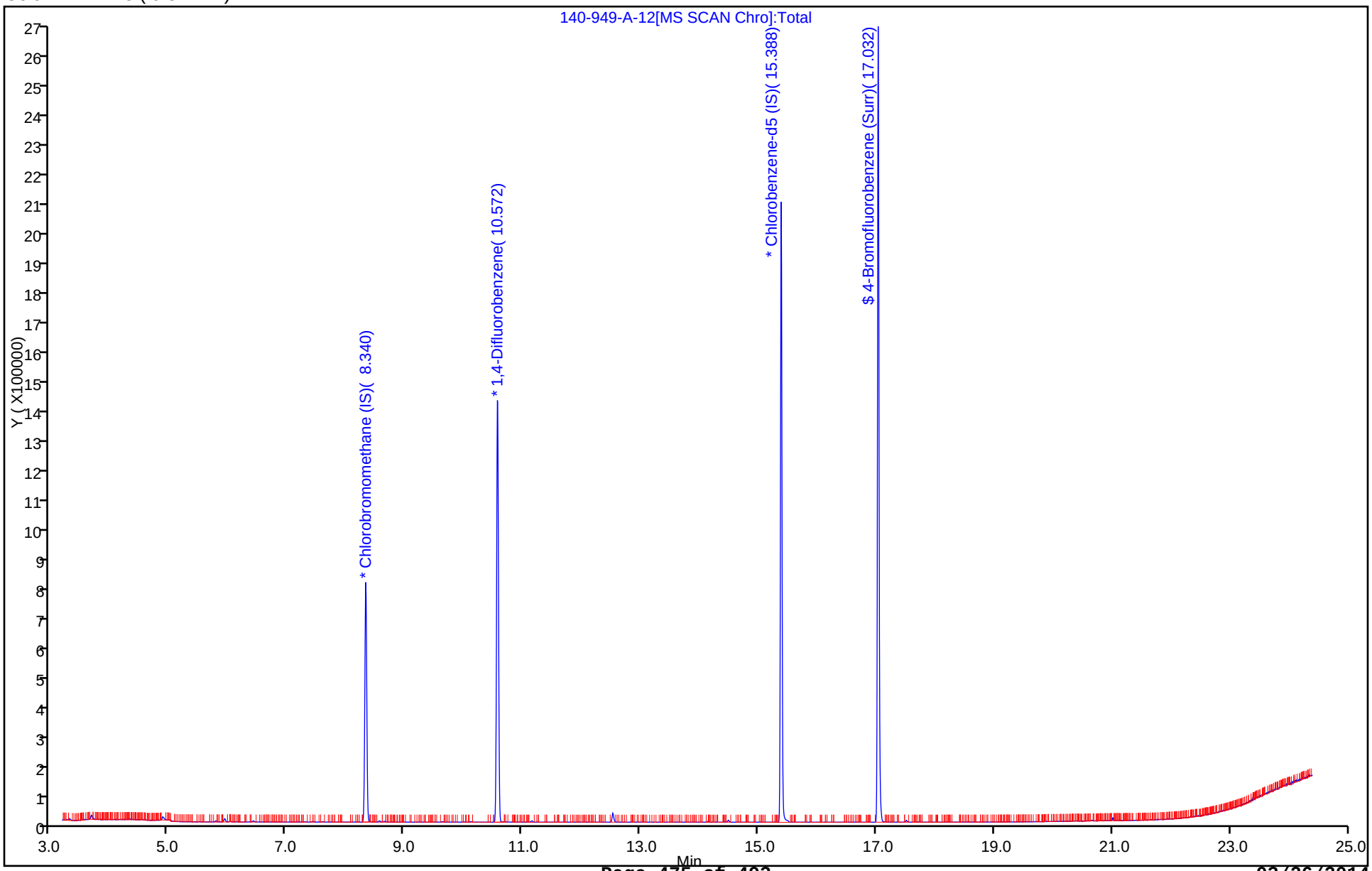
Report Date: 26-Feb-2014 08:16:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D

Injection Date:	25-Feb-2014 21:09:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-12	Lab Sample ID:	140-949-12	Worklist Smp#:	15
Client ID:	10711				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 | Lab Sample ID: 140-949-13

Matrix: Air | Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10536 Lab Sample ID: 140-949-13

Matrix: Air Lab File ID: 140-949-A-13.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D
Lims ID: 140-949-A-13 Lab Sample ID: 140-949-13
Client ID: 10536
Sample Type: Client
Inject. Date: 25-Feb-2014 21:54:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10536
Misc. Info.: E022514,TO155,,140-0000471-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Feb-2014 08:17:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	223080	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1117429	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	93	1027674	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	920341	4.09	
9 Chloromethane	52	3.540	3.530	0.010	73	1932	0.0981	

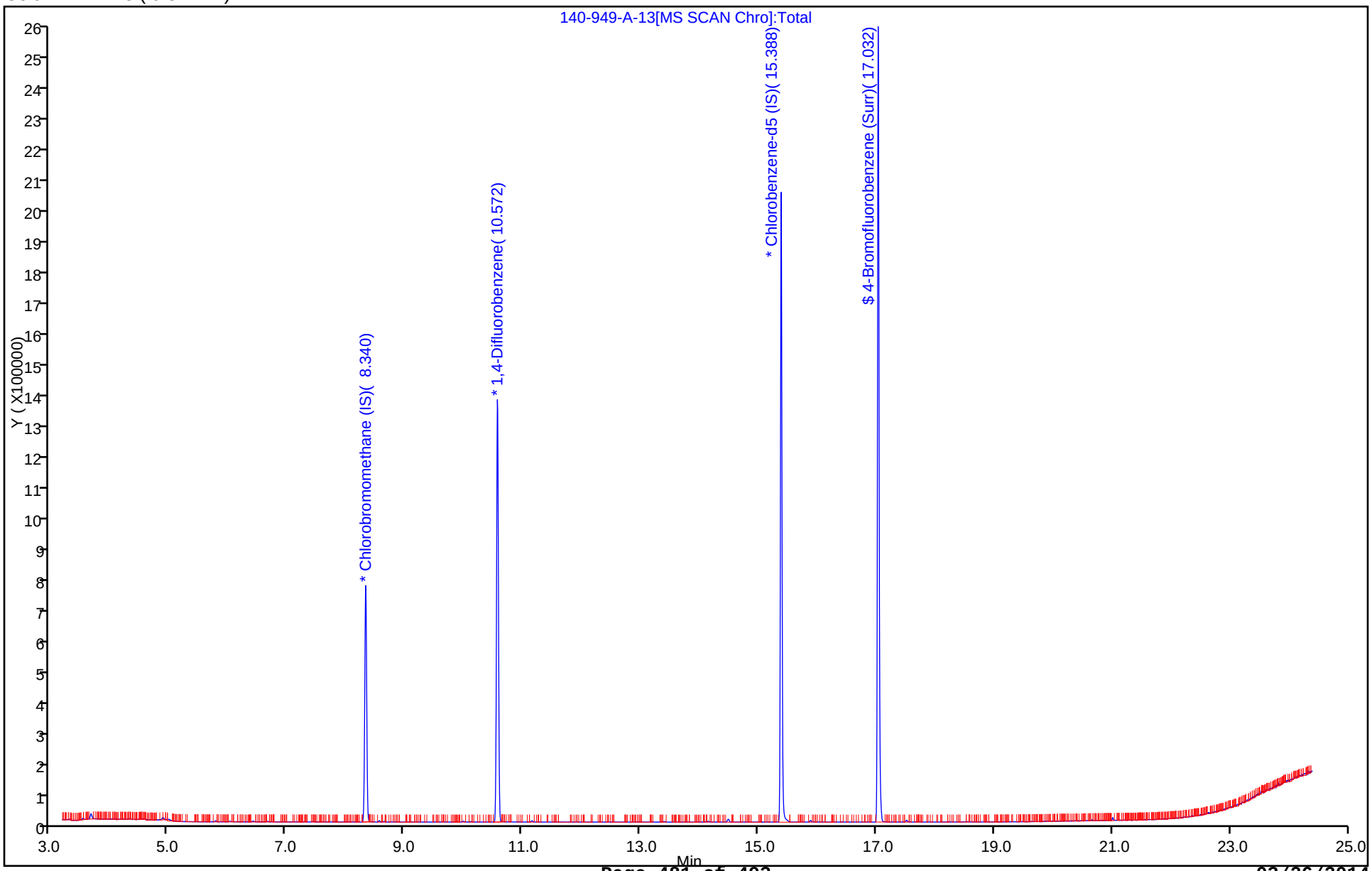
Report Date: 26-Feb-2014 08:17:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D

Injection Date:	25-Feb-2014 21:54:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-13	Lab Sample ID:	140-949-13	Worklist Smp#:	16
Client ID:	10536				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 | Lab Sample ID: 140-949-14

Matrix: Air | Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1

SDG No.:

Client Sample ID: 10729 Lab Sample ID: 140-949-14

Matrix: Air Lab File ID: 140-949-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D				
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14		
Client ID:	10729				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 22:40:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10729				
Misc. Info.:	E022514,TO155,,140-0000471-017				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:17:32	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:17:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	238652	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1191848	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1067633	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949012	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	75	4783	0.0339	

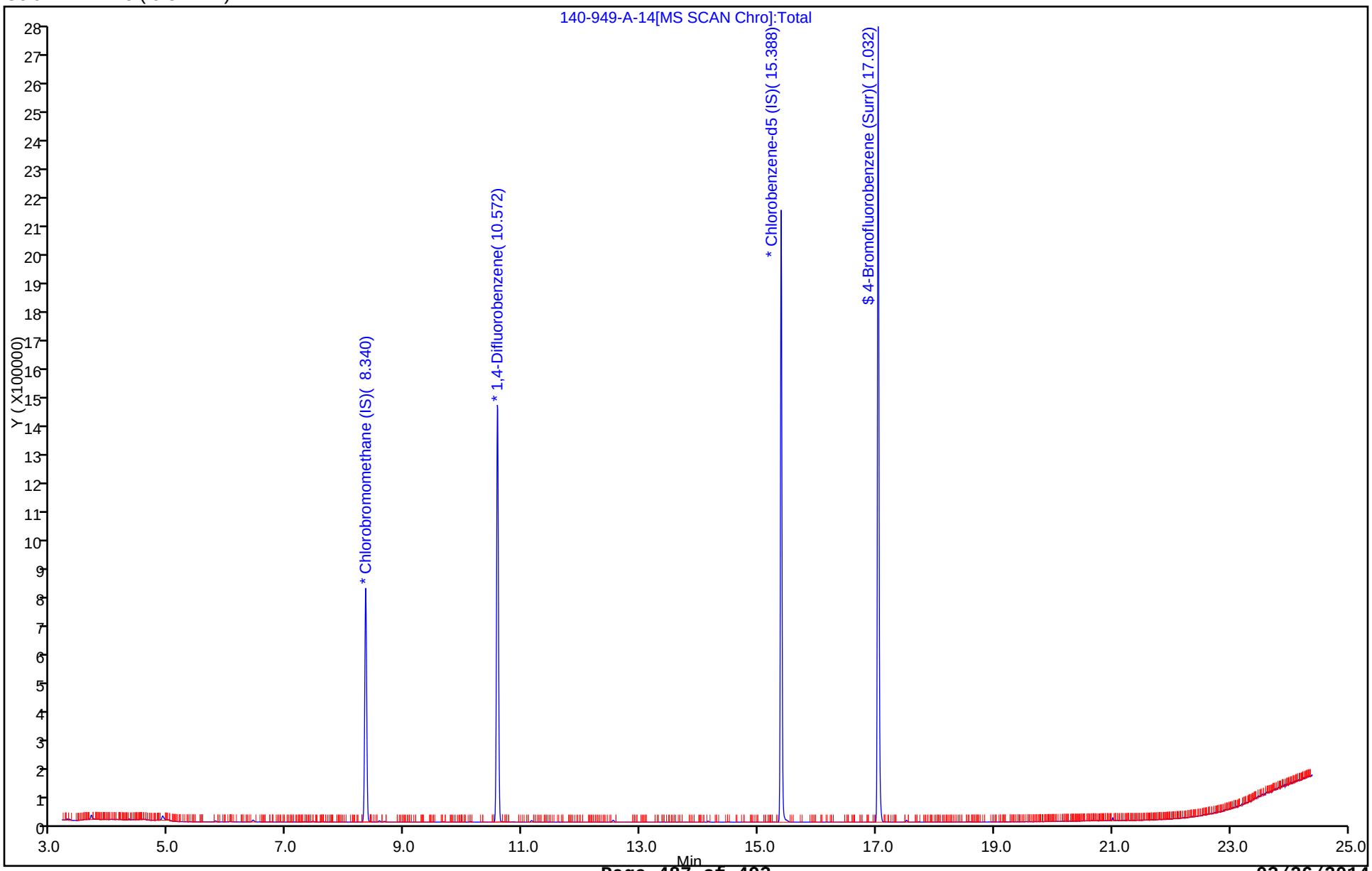
Report Date: 26-Feb-2014 08:19:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D

Injection Date:	25-Feb-2014 22:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-949-A-14	Lab Sample ID:	140-949-14	Worklist Smp#:	17
Client ID:	10729				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
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TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No: 3 of 3 COCs
Company Name: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8706	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212-377-8401	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village 1A	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: Peter Cooper Village, NYC	Standard (Specific): X		(See below for Add'l Items)
PO #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) Full List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3688	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Composite	Indoor Air	Ambient Air (outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A3-B21	3-10-14	9:10	16:15	-30	-5	10063	10857	X								X	X		JC			Temp = 75°F
PCV-1A2-B19	3-10-14	8:54	16:28	-30	-5	10623	10422	X								X	X					Temp = 68°F
PCV-1A1-B21	3-10-14	9:13	17:15	-30	-5	09862	10535	X								X	X					Temp = ~~68°F~~ 75°F
PCV-1A1-B19	3-10-14	8:43	16:42	-29	-5.5	10505	11039	X								X	X					Temp = 68°F
PCV-1A3-B19	3-10-14	8:48	16:48	-30	-8	10592	09822	X								X	X					Temp = 68°F
PCV-AMB1	3-10-14	10:09	16:59	-29	-7	10241	10812	X								X		X				Temp = 42°F
PCV-1A2-B21	3-10-14	9:22	17:10	-30	-6	10599	10092	X								X	X					Temp = 73°F

Received @ ambient
No Cust. Seal

140-1054 Chain of Custody

1 box
KW 3/13/14
fedex SO
tr.# 7981 7702 7991

	Temperature (Fahrenheit)			
J. Christoffel	Start	Interior	Ambient 40°F	
	Stop	JC	52°F	

	Temperature (Fahrenheit)		Barometric (in Hg)	
J. Christoffel	Start	Interior	Ambient 29.86	
	Stop		29.71	

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	6 Cans 6 Flows
Samples Relinquished by: J. Christoffel	Date / Time: 3-10-14 15:35 PM	Received by:	
Relinquished by:	Date / Time: 3/16/14 8:10	Received by: KW 3/13/14 1025	

Lab Use Only: Shipper Name: Opened by: Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Sara Meissner	COC No:
Company Name: AECOM	Phone: 516-581-7313		1 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8400	Site Contact: Jessica Ahlen		Walk-in Client:
FAX: 212-377-8410	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village IA	Anaylsis Turnaround Time		
Site/Location: Peter Cooper Village, NYC	Standard (Specific): X		Job / SDG No.:
P O #	Rush (Specify):		(See below for Add'l Items)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med Vol Low Vol) Cert by MicroLiv	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Comp, 12	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B10	3/10/14	0827	1615	-28	-4	K503	09597	X								X	X					62°F
PCV-1A2-B10	3/10/14	0836	1400	-30	-5	K101	10178	X								X	X					62°F
PCV-1A3-B10	3/10/14	0840	1615	-30	-4	K354	11040	X								X	X					65°F
PCV-1A2C-B10	3/10/14	0846	1630	-30	-5	K455	09595	X								X	X					67°F
PCV-AMB-2	3/10/14	0852	1530	-30	-4	K441	09613	X								X		X				45°F

S. Meissner

Temperature (Fahrenheit)			
Start	Interior	Ambient ~~(SW)~~ Ambient	
Stop	—	start 40°F	Stop 52°F

S. Meissner

~~Temperature (Fahrenheit)~~			Pressure (Hg)
Start	Interior	Ambient	29.86
Stop	—	~~SW~~	29.71

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by:	Date / Time: 3/10/14 1647	Received by:	
Relinquished by:	Date / Time: 3/10/14 1810	Received by:	

Lab Use Only: Shipper Name: Opened by: Condition:

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Kristen Barbour	COC No:
Company Name: AECOM	Phone: 516-581-7313		2 of 3 COCs
Address: 125 Broad St	Email:		
City/State/Zip: NY, NY 10004			For Lab Use Only:
Phone: 212 377 8106	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212 377 8710	TA Contact: Janis McKinney		Lab Sampling:
Project Name: PeterCooper Village IA	Anaytsis Turnaround Time		Job / SDG No.:
Site/Location: PeterCooper Village NYC	Standard (Specific): Standard		(See below for Add'l Items)
P O #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) + Cert Exp MXP List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA2-B16	3/10/14	9:11	16:30	-30	-6	10853	10806	X								X	X					temp 71°F FC# 10853
PCV-IA1-B16	3/10/14	9:19	16:42	-30	-5.5	10630	10369	X								X	X					temp 72°F FC# 10630 not used
PCV-IA3-B16	3/10/14	9:16	16:35	-30	-6.5	10558	10536	X								X	X					temp 72°F
PCV-IA2-B18	3/10/14	9:37	17:08	-30	-6	10647	11044	X								X	X					temp 71°F
PCV-IA3-B18	3/10/14	9:41	17:12	-27	-4	10645	10721	X								X	X					temp 63°F
PCV-IA1-B18	3/10/14	9:42	17:18	-30	-5.5	09715	10129	X								X	X					temp 65°F
PCV-IA2-B18	3/10/14	9:44	17:15	-30	-5	10630	09583	X								X	X					flow control #10361 not used for sample, temp 6

	Temperature (Fahrenheit)			
Kristen Barbour	Start	Interior	Ambient 40°F	52°F
	Stop			

Note: FC #10845 not used on IA2-B16
FC # 10630 not used on IA1-B16

	~~Temperature (Fahrenheit)~~ Pressure (inches of Hg)			
Kristen Barbour	Start	Interior	Ambient	29.86
	Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by: Kristen Barbour	Date / Time: 3/10/14 17:36	Received by:	
Relinquished by:	Date / Time: 3/11/14 18:10	Received by:	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
AFB	3/13/2014	1745	140-1054-A-1	X		-4.7	
AFB	3/13/2014	1746	140-1054-A-2	X		-4.1	
AFB	3/13/2014	1747	140-1054-A-3	X		-3.0	
AFB	3/13/2014	1748	140-1054-A-4	X		-6.0	
AFB	3/13/2014	1749	140-1054-A-5	X		-6.9	
AFB	3/13/2014	1750	140-1054-A-6	X		-4.9	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1054-1

Login Number: 1054

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 140-1060-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/28/2014 9:01 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/28/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1060-1

Comments
No additional comments.

Receipt
The samples were received on 3/15/2014 9:02 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 977 exhibited % difference of > 30% for the following analyte(s) 4-methyl-2-pentanone, bromoform and 1,2,4-trichlorobenzene, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 977: tetrahydrofuran, hexachlorobutadiene and naphthalene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification #959 forMIBK is shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B7 — Lab Sample ID: 140-1060-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.81		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.22	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	9.5		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.077	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.67	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.88	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.7	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.70		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	18		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.32	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.58	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B4 — Lab Sample ID: 140-1060-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.85		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.28	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.18	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.059	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.063	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B4 (Continued)

Lab Sample ID: 140-1060-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	38		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	23		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.10	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	0.27		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.26		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.56	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	72		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.42	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	57		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.44	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	1.1		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.97		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B6

Lab Sample ID: 140-1060-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.080	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.61		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.070	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	1.5	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.042	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.46	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	6.9		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.47	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B6 (Continued)

Lab Sample ID: 140-1060-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.55		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.20		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.72	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.049	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.18	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.29	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	3.7	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.62	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.16	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.95	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	13		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.44	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.37	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.85		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.33	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B6

Lab Sample ID: 140-1060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.064	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.60		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.99		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.16	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.038	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.076	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.45	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	8.0		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.22		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.063	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B6 (Continued)

Lab Sample ID: 140-1060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	0.80	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.44		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.73	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.040	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.14	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.72	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.1		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.1	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.50	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.15	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.37	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.94	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	15		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.97		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.26	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.37	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.7		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.9		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.27	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.93		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B15

Lab Sample ID: 140-1060-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.067	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.73		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.35	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.9	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.047	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.62		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.040	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B15 (Continued)

Lab Sample ID: 140-1060-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.79		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.062	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.9		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.066	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.055	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.55	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.4	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.68		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.23	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.14	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	23		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.4		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.25	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.38	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	24		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	8.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.28	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.37	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B15

Lab Sample ID: 140-1060-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.33	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.65		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.085	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B15 (Continued)

Lab Sample ID: 140-1060-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.041	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.55		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.040	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	13		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.36		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.054	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.19	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.91	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.76		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.70		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.086	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.41		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.57	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.73	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.42	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
Acetone	7.7	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.70		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.13	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	2.7		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.14	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	24		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.6		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.66	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.2	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.6		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	9.6		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	3.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.58	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B15

Lab Sample ID: 140-1060-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B15 (Continued)

Lab Sample ID: 140-1060-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.076	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.078	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.81		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.054	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.11	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.29		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Hexane	0.10	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.6	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.9		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.61		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.12	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.065	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.38		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.17	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.98	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.60	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.21	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.52	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	23		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.3		0.87	0.30	ug/m3	1		TO-15	Total/NA
Hexane	0.36	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	8.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.7		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.50	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.5		0.75	0.45	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B15 (Continued)

Lab Sample ID: 140-1060-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-AMB7

Lab Sample ID: 140-1060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.087	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.87		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.095	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.080	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	10		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.24	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.95	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.85		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	0.97	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.068	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.32		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.72	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.39	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.70		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.27	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	19		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.46	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.83	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.3	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.0		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B17

Lab Sample ID: 140-1060-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B17 (Continued)

Lab Sample ID: 140-1060-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.081	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.097	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.054	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.20	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.85		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.072	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.1	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.045	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.060	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	11		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.051	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.85		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.41		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.24		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.22	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.60	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.29	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	4.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.74		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.17	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.55	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.29	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	20		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.21	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.42	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	6.3		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.0		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.8		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.91		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B17

Lab Sample ID: 140-1060-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.082	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B17 (Continued)

Lab Sample ID: 140-1060-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.34	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.73		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	4.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.090	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.040	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.84		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	11		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.10	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	7.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	8.9		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.19	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.076	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.82	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.051	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	10	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.63		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.57	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.19	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.7		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	20		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.36	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	19		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	31		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.83	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.33	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.83		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3FD-B17

Lab Sample ID: 140-1060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.076	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.044	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.80		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.054	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.18	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3FD-B17 (Continued)

Lab Sample ID: 140-1060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.098	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.41	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.046	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	13		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.8		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.6		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	0.92	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.16	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.17	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.22	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.57	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.48	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.84	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.16	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	24		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	22		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	5.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.36	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.60	J	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B17

Lab Sample ID: 140-1060-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.083	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.10	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.43	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.97		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.059	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.047	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.085	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B17 (Continued)

Lab Sample ID: 140-1060-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.060	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	3.1		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.061	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.30		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.22	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.8		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.24	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	12		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.18	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.41	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	23		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.44	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	11		1.7	0.45	ug/m3	1		TO-15	Total/NA
Propene	2.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.41	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA4-B17

Lab Sample ID: 140-1060-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.88		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.048	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.16	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.18	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.41	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	9.9		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Hexane	0.081	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	18		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.3		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA4-B17 (Continued)

Lab Sample ID: 140-1060-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propene	0.76	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.057	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.18	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.20	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.50	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.90	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.85	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	19		3.8	3.8	ug/m3	1		TO-15	Total/NA
Hexane	0.29	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	45		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	4.6		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.57	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.39	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.67	J	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA5-B17

Lab Sample ID: 140-1060-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.087	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.040	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.31	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.88		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.26		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.034	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.10	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.084	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.60		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.73		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	24		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.055	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.10	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	3.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.7		0.50	0.13	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.16	J *	0.50	0.090	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.055	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA5-B17 (Continued)

Lab Sample ID: 140-1060-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.19	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.92	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	10	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.82		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.13	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.31	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.53	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	2.9		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.5		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	44		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.36	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	7.7		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	5.9		1.7	0.45	ug/m3	1		TO-15	Total/NA
Naphthalene	0.86	J *	2.6	0.47	ug/m3	1		TO-15	Total/NA
Propene	2.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.37	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.84		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B9

Lab Sample ID: 140-1060-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.074	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.18	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.81		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.045	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.5	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.053	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	230	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	2.2		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.073	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.2		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B9 (Continued)

Lab Sample ID: 140-1060-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	3.3		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.047	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	3.3		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	280		4.0	4.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.41	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.81	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.19	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.71		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.35	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.18	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	430	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	9.6		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.30	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.39	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	4.3		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	52		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	14		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.32	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	12		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	520		7.5	7.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1FD-B9

Lab Sample ID: 140-1060-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.058	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.092	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.17	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.77		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.48	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.045	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	200	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1FD-B9 (Continued)

Lab Sample ID: 140-1060-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.2		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.063	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.094	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.99		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	3.2		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.051	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	4.5		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	220		4.0	4.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.45	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.37	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.93	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	7.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.62	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.15	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	390	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	9.7		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.26	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.33	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.4		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	50		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	14		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	17		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	410		7.5	7.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.087	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.79		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.21		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.049	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B9 (Continued)

Lab Sample ID: 140-1060-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.54		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	45		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	17		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.086	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.5	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.57		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	69		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	24		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	4.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.62	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.29	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.41	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	5.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.68		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromomethane	0.19	J	0.78	0.12	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.58	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.7		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	86		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	73		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.30	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.0		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	300		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	110		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	15		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B8

Lab Sample ID: 140-1060-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.069	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.68		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B8 (Continued)

Lab Sample ID: 140-1060-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.077	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.64		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	17		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	26		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Hexane	0.10	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.76	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.53		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	86	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	35		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.79	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.045	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.65		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.042	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene - DL	100		0.40	0.24	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.0		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.6	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.75		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.49	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	32		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	110		0.87	0.30	ug/m3	1		TO-15	Total/NA
Hexane	0.36	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.9	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	370	E	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	150		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.22	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene - DL	450		1.7	1.0	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1FD-B8

Lab Sample ID: 140-1060-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.069	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.091	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.23	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1FD-B8 (Continued)

Lab Sample ID: 140-1060-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	0.97		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.070	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.76		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.25		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	21		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	31		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.89	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.78		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	88	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	41		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.96	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.78		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene - DL	130		0.40	0.24	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.20	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.68	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.35	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	3.1		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.1	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.79		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	40		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	130		0.87	0.30	ug/m3	1		TO-15	Total/NA
Hexane	0.55	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.2	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	380	E	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	180		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	2.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene - DL	580		1.7	1.0	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B8

Lab Sample ID: 140-1060-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.076	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.85		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	18		0.50	0.045	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B8 (Continued)

Lab Sample ID: 140-1060-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.39	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	17		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.52		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.095	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.81	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.46	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.8		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.77		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.89	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.045	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	73		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.60	J	0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.81	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	33		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.3		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.33	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.6	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	12		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	3.3		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.5	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	0.83		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B20

Lab Sample ID: 140-1060-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.099	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.072	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.091	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.82		0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B20 (Continued)

Lab Sample ID: 140-1060-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.2	J *	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.32		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.053	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.063	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.059	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	130		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.1		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.12	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.23	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	2.0		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.068	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.048	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.63		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.8		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.48	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.31	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.43	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.42	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.52	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.5	J *	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.0		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.34	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.20	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	240		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.50	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.80	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	6.0		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	8.7		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.29	J	0.85	0.25	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B20 (Continued)

Lab Sample ID: 140-1060-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.33	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B20

Lab Sample ID: 140-1060-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.75		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.20		0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.12	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.094	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.49	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.93		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.20		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.32	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.86		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.8	J *	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.34		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.093	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.078	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	280	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.9		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.15	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.27	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.7		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.49	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	8.0		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	3.1		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.075	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.77		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	240		5.0	5.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.7		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.98		0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.5	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.7		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.71		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.6	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	3.5		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	11	J *	12	3.3	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B20 (Continued)

Lab Sample ID: 140-1060-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.46	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.27	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	530	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	8.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.63	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.96	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	35		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	13		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	2.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.32	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.32	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	450		9.4	9.4	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v	1.66		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.20		0.20	0.063	ppb v/v	1.66		TO-15	Total/NA
1,3-Butadiene	0.11	J	0.40	0.064	ppb v/v	1.66		TO-15	Total/NA
2,2,4-Trimethylpentane	0.10	J	0.50	0.039	ppb v/v	1.66		TO-15	Total/NA
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v	1.66		TO-15	Total/NA
2-Methylbutane	0.72		0.50	0.031	ppb v/v	1.66		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v	1.66		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	6.1		0.50	0.045	ppb v/v	1.66		TO-15	Total/NA
Acetone	2.2	J *	5.0	1.4	ppb v/v	1.66		TO-15	Total/NA
Benzene	0.33		0.20	0.056	ppb v/v	1.66		TO-15	Total/NA
Carbon disulfide	0.038	J	0.50	0.031	ppb v/v	1.66		TO-15	Total/NA
Carbon tetrachloride	0.063	J	0.20	0.038	ppb v/v	1.66		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.038	ppb v/v	1.66		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1.66		TO-15	Total/NA
Cyclohexane	0.048	J	0.50	0.040	ppb v/v	1.66		TO-15	Total/NA
Dichlorodifluoromethane	0.39		0.20	0.068	ppb v/v	1.66		TO-15	Total/NA
Ethanol	36		2.0	2.0	ppb v/v	1.66		TO-15	Total/NA
Ethylbenzene	0.58		0.20	0.068	ppb v/v	1.66		TO-15	Total/NA
Heptane	0.12	J	0.50	0.047	ppb v/v	1.66		TO-15	Total/NA
Hexane	0.21	J	0.50	0.032	ppb v/v	1.66		TO-15	Total/NA
Isopropyl alcohol	1.3	J	2.0	0.094	ppb v/v	1.66		TO-15	Total/NA
Methylene Chloride	0.55		0.50	0.13	ppb v/v	1.66		TO-15	Total/NA
m-Xylene & p-Xylene	2.6		0.20	0.12	ppb v/v	1.66		TO-15	Total/NA
o-Xylene	1.0		0.20	0.061	ppb v/v	1.66		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1.66		TO-15	Total/NA
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v	1.66		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B20 (Continued)

Lab Sample ID: 140-1060-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.51		0.20	0.12	ppb v/v	1.66		TO-15	Total/NA
Trichlorofluoromethane	0.18	J	0.20	0.024	ppb v/v	1.66		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3	1.66		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.98		0.98	0.31	ug/m3	1.66		TO-15	Total/NA
1,3-Butadiene	0.24	J	0.88	0.14	ug/m3	1.66		TO-15	Total/NA
2,2,4-Trimethylpentane	0.48	J	2.3	0.18	ug/m3	1.66		TO-15	Total/NA
2-Butanone (MEK)	0.77	J	2.9	0.59	ug/m3	1.66		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1.66		TO-15	Total/NA
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3	1.66		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	25		2.0	0.18	ug/m3	1.66		TO-15	Total/NA
Acetone	5.3	J *	12	3.3	ug/m3	1.66		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1.66		TO-15	Total/NA
Carbon disulfide	0.12	J	1.6	0.097	ug/m3	1.66		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1.66		TO-15	Total/NA
Chloroform	0.68	J	0.98	0.19	ug/m3	1.66		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1.66		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1.66		TO-15	Total/NA
Dichlorodifluoromethane	1.9		0.99	0.34	ug/m3	1.66		TO-15	Total/NA
Ethanol	68		3.8	3.8	ug/m3	1.66		TO-15	Total/NA
Ethylbenzene	2.5		0.87	0.30	ug/m3	1.66		TO-15	Total/NA
Heptane	0.49	J	2.0	0.19	ug/m3	1.66		TO-15	Total/NA
Hexane	0.75	J	1.8	0.11	ug/m3	1.66		TO-15	Total/NA
Isopropyl alcohol	3.2	J	4.9	0.23	ug/m3	1.66		TO-15	Total/NA
Methylene Chloride	1.9		1.7	0.45	ug/m3	1.66		TO-15	Total/NA
m-Xylene & p-Xylene	11		0.87	0.52	ug/m3	1.66		TO-15	Total/NA
o-Xylene	4.5		0.87	0.26	ug/m3	1.66		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1.66		TO-15	Total/NA
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3	1.66		TO-15	Total/NA
Toluene	1.9		0.75	0.45	ug/m3	1.66		TO-15	Total/NA
Trichlorofluoromethane	1.0	J	1.1	0.13	ug/m3	1.66		TO-15	Total/NA

Client Sample ID: PCV-AMB-8

Lab Sample ID: 140-1060-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.066	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.30	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.55		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.97		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.0	J *	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.25		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	9.7		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.072	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.091	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.55	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-AMB-8 (Continued)

Lab Sample ID: 140-1060-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.50		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.091	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.73	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.050	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.31	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.87	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.0		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	4.7	J *	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.80		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	18		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.31	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.37	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.55	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.40	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B7
Lab Sample ID: 140-1060-1
Date Collected: 03/14/14 15:50
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 03:47	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**J**	0.20	0.031	ppb v/v			03/18/14 03:47	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 03:47	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 03:47	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 03:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 03:47	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 03:47	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 03:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 03:47	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 03:47	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 03:47	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 03:47	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:47	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 03:47	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:47	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 03:47	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 03:47	1
2,2,4-Trimethylpentane	**0.045**	**J**	0.50	0.039	ppb v/v			03/18/14 03:47	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
2-Butanone (MEK)	**0.24**	**J**	1.0	0.20	ppb v/v			03/18/14 03:47	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 03:47	1
2-Methylbutane	**0.81**		0.50	0.031	ppb v/v			03/18/14 03:47	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 03:47	1
4-Methyl-2-pentanone (MIBK)	**0.22**	**J**	0.50	0.045	ppb v/v			03/18/14 03:47	1
Acetone	**2.8**	**J**	5.0	1.4	ppb v/v			03/18/14 03:47	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/18/14 03:47	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 03:47	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 03:47	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 03:47	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 03:47	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 03:47	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/18/14 03:47	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 03:47	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 03:47	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 03:47	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/18/14 03:47	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 03:47	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 03:47	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 03:47	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 03:47	1
Dichlorodifluoromethane	**0.47**		0.20	0.068	ppb v/v			03/18/14 03:47	1
Ethanol	**9.5**		2.0	2.0	ppb v/v			03/18/14 03:47	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 03:47	1
Heptane	**0.077**	**J**	0.50	0.047	ppb v/v			03/18/14 03:47	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 03:47	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/18/14 03:47	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 03:47	1
Isopropyl alcohol	**0.67**	**J**	2.0	0.094	ppb v/v			03/18/14 03:47	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 03:47	1
Methylene Chloride	**0.51**		0.50	0.13	ppb v/v			03/18/14 03:47	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/18/14 03:47	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 03:47	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/18/14 03:47	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 03:47	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 03:47	1
Tetrachloroethene	**0.046**	**J**	0.20	0.040	ppb v/v			03/18/14 03:47	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 03:47	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
Toluene	**0.28**		0.20	0.12	ppb v/v			03/18/14 03:47	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 03:47	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 03:47	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 03:47	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/18/14 03:47	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 03:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 03:47	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/18/14 03:47	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 03:47	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 03:47	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 03:47	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 03:47	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 03:47	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 03:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 03:47	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 03:47	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 03:47	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 03:47	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 03:47	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 03:47	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 03:47	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 03:47	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 03:47	1
2,2,4-Trimethylpentane	**0.21**	**J**	2.3	0.18	ug/m3			03/18/14 03:47	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 03:47	1
2-Butanone (MEK)	**0.70**	**J**	2.9	0.59	ug/m3			03/18/14 03:47	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 03:47	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/18/14 03:47	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 03:47	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 03:47	1
4-Methyl-2-pentanone (MIBK)	**0.88**	**J**	2.0	0.18	ug/m3			03/18/14 03:47	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.7**	**J**	12	3.3	ug/m3			03/18/14 03:47	1
Benzene	**0.70**		0.64	0.18	ug/m3			03/18/14 03:47	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 03:47	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 03:47	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 03:47	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 03:47	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 03:47	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/18/14 03:47	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 03:47	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 03:47	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 03:47	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/18/14 03:47	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 03:47	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 03:47	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 03:47	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 03:47	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 03:47	1
Ethanol	**18**		3.8	3.8	ug/m3			03/18/14 03:47	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 03:47	1
Heptane	**0.32**	**J**	2.0	0.19	ug/m3			03/18/14 03:47	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 03:47	1
Hexane	**0.58**	**J**	1.8	0.11	ug/m3			03/18/14 03:47	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 03:47	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 03:47	1
Isopropyl alcohol	**1.6**	**J**	4.9	0.23	ug/m3			03/18/14 03:47	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 03:47	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/18/14 03:47	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/18/14 03:47	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 03:47	1
o-Xylene	ND		0.87	0.26	ug/m3			03/18/14 03:47	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 03:47	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 03:47	1
Tetrachloroethene	**0.31**	**J**	1.4	0.27	ug/m3			03/18/14 03:47	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 03:47	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 03:47	1
Toluene	**1.1**		0.75	0.45	ug/m3			03/18/14 03:47	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 03:47	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 03:47	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 03:47	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/18/14 03:47	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/18/14 03:47*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**J**	0.20	0.031	ppb v/v			03/18/14 04:33	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 04:33	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 04:33	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 04:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 04:33	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 04:33	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 04:33	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 04:33	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 04:33	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 04:33	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 04:33	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 04:33	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 04:33	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 04:33	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/18/14 04:33	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/18/14 04:33	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 04:33	1
2-Methylbutane	**0.85**		0.50	0.031	ppb v/v			03/18/14 04:33	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 04:33	1
4-Methyl-2-pentanone (MIBK)	**0.28**	**J**	0.50	0.045	ppb v/v			03/18/14 04:33	1
Acetone	**2.3**	**J**	5.0	1.4	ppb v/v			03/18/14 04:33	1
Benzene	**0.18**	**J**	0.20	0.056	ppb v/v			03/18/14 04:33	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 04:33	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 04:33	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 04:33	1
Bromomethane	ND	*	0.20	0.032	ppb v/v			03/18/14 04:33	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 04:33	1
Carbon tetrachloride	**0.059**	**J**	0.20	0.038	ppb v/v			03/18/14 04:33	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 04:33	1
Chloroethane	ND	*	0.20	0.035	ppb v/v			03/18/14 04:33	1
Chloroform	**0.063**	**J**	0.20	0.038	ppb v/v			03/18/14 04:33	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/18/14 04:33	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 04:33	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 04:33	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 04:33	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 04:33	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/18/14 04:33	1
Ethanol	**38**		2.0	2.0	ppb v/v			03/18/14 04:33	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 04:33	1
Heptane	ND		0.50	0.047	ppb v/v			03/18/14 04:33	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 04:33	1
Hexane	**0.12**	**J**	0.50	0.032	ppb v/v			03/18/14 04:33	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 04:33	1
Isopropyl alcohol	**23**		2.0	0.094	ppb v/v			03/18/14 04:33	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 04:33	1
Methylene Chloride	**0.51**		0.50	0.13	ppb v/v			03/18/14 04:33	1
m-Xylene & p-Xylene	**0.26**		0.20	0.12	ppb v/v			03/18/14 04:33	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 04:33	1
o-Xylene	**0.10**	**J**	0.20	0.061	ppb v/v			03/18/14 04:33	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 04:33	1
Styrene	**0.27**		0.20	0.058	ppb v/v			03/18/14 04:33	1
Tetrachloroethene	**0.052**	**J**	0.20	0.040	ppb v/v			03/18/14 04:33	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 04:33	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
Toluene	**0.26**		0.20	0.12	ppb v/v			03/18/14 04:33	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 04:33	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 04:33	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 04:33	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/18/14 04:33	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 04:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.53**	**J**	1.5	0.24	ug/m3			03/18/14 04:33	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 04:33	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 04:33	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 04:33	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 04:33	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 04:33	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 04:33	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 04:33	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 04:33	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 04:33	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 04:33	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 04:33	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 04:33	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 04:33	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/18/14 04:33	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 04:33	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/18/14 04:33	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 04:33	1
2-Methylbutane	**2.5**		1.5	0.091	ug/m3			03/18/14 04:33	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 04:33	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 04:33	1
4-Methyl-2-pentanone (MIBK)	**1.2**	**J**	2.0	0.18	ug/m3			03/18/14 04:33	1
Acetone	**5.5**	**J**	12	3.3	ug/m3			03/18/14 04:33	1

Client Sample ID: PCV-IA2-B4

Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.56**	**J**	0.64	0.18	ug/m3			03/18/14 04:33	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 04:33	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 04:33	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 04:33	1
Bromomethane	ND	*	0.78	0.12	ug/m3			03/18/14 04:33	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 04:33	1
Carbon tetrachloride	**0.37**	**J**	1.3	0.24	ug/m3			03/18/14 04:33	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 04:33	1
Chloroethane	ND	*	0.53	0.092	ug/m3			03/18/14 04:33	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/18/14 04:33	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/18/14 04:33	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 04:33	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 04:33	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 04:33	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 04:33	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 04:33	1
Ethanol	**72**		3.8	3.8	ug/m3			03/18/14 04:33	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 04:33	1
Heptane	ND		2.0	0.19	ug/m3			03/18/14 04:33	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 04:33	1
Hexane	**0.42**	**J**	1.8	0.11	ug/m3			03/18/14 04:33	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 04:33	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 04:33	1
Isopropyl alcohol	**57**		4.9	0.23	ug/m3			03/18/14 04:33	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 04:33	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/18/14 04:33	1
m-Xylene & p-Xylene	**1.1**		0.87	0.52	ug/m3			03/18/14 04:33	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 04:33	1
o-Xylene	**0.44**	**J**	0.87	0.26	ug/m3			03/18/14 04:33	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 04:33	1
Styrene	**1.1**		0.85	0.25	ug/m3			03/18/14 04:33	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/18/14 04:33	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 04:33	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 04:33	1
Toluene	**0.97**		0.75	0.45	ug/m3			03/18/14 04:33	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 04:33	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 04:33	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 04:33	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/18/14 04:33	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/18/14 04:33*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 16:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**J**	0.20	0.031	ppb v/v			03/20/14 16:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 16:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 16:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 16:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 16:31	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 16:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 16:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 16:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 16:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 16:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 16:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 16:31	1
1,3-Butadiene	**0.080**	**J**	0.40	0.064	ppb v/v			03/20/14 16:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 16:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 16:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 16:31	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 16:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 16:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 16:31	1
2-Methylbutane	**0.61**		0.50	0.031	ppb v/v			03/20/14 16:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 16:31	1
4-Methyl-2-pentanone (MIBK)	**0.070**	**J**	0.50	0.045	ppb v/v			03/20/14 16:31	1
Acetone	**1.5**	**J**	5.0	1.4	ppb v/v			03/20/14 16:31	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/20/14 16:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 16:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 16:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 16:31	1
Bromomethane	**0.042**	**J**	0.20	0.032	ppb v/v			03/20/14 16:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 16:31	1
Carbon tetrachloride	**0.080**	**J**	0.20	0.038	ppb v/v			03/20/14 16:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 16:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 16:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 16:31	1
Chloromethane	**0.46**	**J**	0.50	0.16	ppb v/v			03/20/14 16:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 16:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 16:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 16:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 16:31	1
Dichlorodifluoromethane	**0.47**		0.20	0.068	ppb v/v			03/20/14 16:31	1
Ethanol	**6.9**		2.0	2.0	ppb v/v			03/20/14 16:31	1
Ethylbenzene	**0.10**	**J**	0.20	0.068	ppb v/v			03/20/14 16:31	1
Heptane	**0.048**	**J**	0.50	0.047	ppb v/v			03/20/14 16:31	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 16:31	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/20/14 16:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 16:31	1
Isopropyl alcohol	**0.47**	**J**	2.0	0.094	ppb v/v			03/20/14 16:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 16:31	1
Methylene Chloride	**0.48**	**J**	0.50	0.13	ppb v/v			03/20/14 16:31	1
m-Xylene & p-Xylene	**0.55**		0.20	0.12	ppb v/v			03/20/14 16:31	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 16:31	1
o-Xylene	**0.20**		0.20	0.061	ppb v/v			03/20/14 16:31	1
Propene	**0.72**	**cn**	0.50	0.077	ppb v/v			03/20/14 16:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 16:31	1
Tetrachloroethene	**0.049**	**J**	0.20	0.040	ppb v/v			03/20/14 16:31	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 16:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
Toluene	**0.28**		0.20	0.12	ppb v/v			03/20/14 16:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 16:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 16:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 16:31	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/20/14 16:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 16:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.59**	**J**	1.5	0.24	ug/m3			03/20/14 16:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 16:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 16:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 16:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 16:31	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 16:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 16:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 16:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 16:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 16:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 16:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 16:31	1
1,3-Butadiene	**0.18**	**J**	0.88	0.14	ug/m3			03/20/14 16:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 16:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 16:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 16:31	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 16:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 16:31	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 16:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 16:31	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/20/14 16:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 16:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 16:31	1
4-Methyl-2-pentanone (MIBK)	**0.29**	**J**	2.0	0.18	ug/m3			03/20/14 16:31	1
Acetone	**3.7**	**J**	12	3.3	ug/m3			03/20/14 16:31	1

Client Sample ID: PCV-IA1-B6

Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.62**	**J**	0.64	0.18	ug/m3			03/20/14 16:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 16:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 16:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 16:31	1
Bromomethane	**0.16**	**J**	0.78	0.12	ug/m3			03/20/14 16:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 16:31	1
Carbon tetrachloride	**0.50**	**J**	1.3	0.24	ug/m3			03/20/14 16:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 16:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 16:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 16:31	1
Chloromethane	**0.95**	**J**	1.0	0.33	ug/m3			03/20/14 16:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 16:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 16:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 16:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 16:31	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/20/14 16:31	1
Ethanol	**13**		3.8	3.8	ug/m3			03/20/14 16:31	1
Ethylbenzene	**0.44**	**J**	0.87	0.30	ug/m3			03/20/14 16:31	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/20/14 16:31	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 16:31	1
Hexane	**0.37**	**J**	1.8	0.11	ug/m3			03/20/14 16:31	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 16:31	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 16:31	1
Isopropyl alcohol	**1.2**	**J**	4.9	0.23	ug/m3			03/20/14 16:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 16:31	1
Methylene Chloride	**1.7**	**J**	1.7	0.45	ug/m3			03/20/14 16:31	1
m-Xylene & p-Xylene	**2.4**		0.87	0.52	ug/m3			03/20/14 16:31	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 16:31	1
o-Xylene	**0.85**		0.87	0.26	ug/m3			03/20/14 16:31	1
Propene	**1.2**	**cn**	0.86	0.13	ug/m3			03/20/14 16:31	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 16:31	1
Tetrachloroethene	**0.33**	**J**	1.4	0.27	ug/m3			03/20/14 16:31	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 16:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 16:31	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/20/14 16:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 16:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 16:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 16:31	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/20/14 16:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/20/14 16:31*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 17:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/20/14 17:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 17:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 17:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 17:15	1
1,2,4-Trimethylbenzene	**0.075**	**J**	0.20	0.063	ppb v/v			03/20/14 17:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 17:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 17:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 17:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 17:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 17:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 17:15	1
1,3-Butadiene	**0.064**	**J**	0.40	0.064	ppb v/v			03/20/14 17:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 17:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 17:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 17:15	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 17:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
2-Butanone (MEK)	**0.24**	**J**	1.0	0.20	ppb v/v			03/20/14 17:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 17:15	1
2-Methylbutane	**0.60**		0.50	0.031	ppb v/v			03/20/14 17:15	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 17:15	1
4-Methyl-2-pentanone (MIBK)	**0.99**		0.50	0.045	ppb v/v			03/20/14 17:15	1
Acetone	**3.4**	**J**	5.0	1.4	ppb v/v			03/20/14 17:15	1
Benzene	**0.16**	**J**	0.20	0.056	ppb v/v			03/20/14 17:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 17:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 17:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 17:15	1
Bromomethane	**0.038**	**J**	0.20	0.032	ppb v/v			03/20/14 17:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 17:15	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/20/14 17:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 17:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 17:15	1
Chloroform	**0.076**	**J**	0.20	0.038	ppb v/v			03/20/14 17:15	1
Chloromethane	**0.45**	**J**	0.50	0.16	ppb v/v			03/20/14 17:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 17:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 17:15	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 17:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 17:15	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/20/14 17:15	1
Ethanol	**8.0**		2.0	2.0	ppb v/v			03/20/14 17:15	1
Ethylbenzene	**0.22**		0.20	0.068	ppb v/v			03/20/14 17:15	1
Heptane	**0.063**	**J**	0.50	0.047	ppb v/v			03/20/14 17:15	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 17:15	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/20/14 17:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 17:15	1
Isopropyl alcohol	**0.80**	**J**	2.0	0.094	ppb v/v			03/20/14 17:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 17:15	1
Methylene Chloride	**0.48**	**J**	0.50	0.13	ppb v/v			03/20/14 17:15	1
m-Xylene & p-Xylene	**1.3**		0.20	0.12	ppb v/v			03/20/14 17:15	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 17:15	1
o-Xylene	**0.44**		0.20	0.061	ppb v/v			03/20/14 17:15	1
Propene	**0.73**	**cn**	0.50	0.077	ppb v/v			03/20/14 17:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 17:15	1
Tetrachloroethene	**0.040**	**J**	0.20	0.040	ppb v/v			03/20/14 17:15	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 17:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
Toluene	**0.25**		0.20	0.12	ppb v/v			03/20/14 17:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 17:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 17:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 17:15	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/20/14 17:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 17:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.52**	**J**	1.5	0.24	ug/m3			03/20/14 17:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 17:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 17:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 17:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 17:15	1
1,2,4-Trimethylbenzene	**0.37**	**J**	0.98	0.31	ug/m3			03/20/14 17:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 17:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 17:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 17:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 17:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 17:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 17:15	1
1,3-Butadiene	**0.14**	**J**	0.88	0.14	ug/m3			03/20/14 17:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 17:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 17:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 17:15	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 17:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 17:15	1
2-Butanone (MEK)	**0.72**	**J**	2.9	0.59	ug/m3			03/20/14 17:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 17:15	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/20/14 17:15	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 17:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 17:15	1
4-Methyl-2-pentanone (MIBK)	**4.1**		2.0	0.18	ug/m3			03/20/14 17:15	1
Acetone	**8.1**	**J**	12	3.3	ug/m3			03/20/14 17:15	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.50**	**J**	0.64	0.18	ug/m3			03/20/14 17:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 17:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 17:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 17:15	1
Bromomethane	**0.15**	**J**	0.78	0.12	ug/m3			03/20/14 17:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 17:15	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/20/14 17:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 17:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 17:15	1
Chloroform	**0.37**	**J**	0.98	0.19	ug/m3			03/20/14 17:15	1
Chloromethane	**0.94**	**J**	1.0	0.33	ug/m3			03/20/14 17:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 17:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 17:15	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 17:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 17:15	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/20/14 17:15	1
Ethanol	**15**		3.8	3.8	ug/m3			03/20/14 17:15	1
Ethylbenzene	**0.97**		0.87	0.30	ug/m3			03/20/14 17:15	1
Heptane	**0.26**	**J**	2.0	0.19	ug/m3			03/20/14 17:15	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 17:15	1
Hexane	**0.37**	**J**	1.8	0.11	ug/m3			03/20/14 17:15	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 17:15	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 17:15	1
Isopropyl alcohol	**2.0**	**J**	4.9	0.23	ug/m3			03/20/14 17:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 17:15	1
Methylene Chloride	**1.7**	**J**	1.7	0.45	ug/m3			03/20/14 17:15	1
m-Xylene & p-Xylene	**5.7**		0.87	0.52	ug/m3			03/20/14 17:15	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 17:15	1
o-Xylene	**1.9**		0.87	0.26	ug/m3			03/20/14 17:15	1
Propene	**1.3**	**cn**	0.86	0.13	ug/m3			03/20/14 17:15	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 17:15	1
Tetrachloroethene	**0.27**	**J**	1.4	0.27	ug/m3			03/20/14 17:15	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 17:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 17:15	1
Toluene	**0.93**		0.75	0.45	ug/m3			03/20/14 17:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 17:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 17:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 17:15	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/20/14 17:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/20/14 17:15*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/20/14 18:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 18:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 18:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 18:00	1
1,2,4-Trimethylbenzene	**0.11**	**J**	0.20	0.063	ppb v/v			03/20/14 18:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 18:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 18:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 18:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 18:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:00	1
1,3-Butadiene	**0.067**	**J**	0.40	0.064	ppb v/v			03/20/14 18:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:00	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 18:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 18:00	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/20/14 18:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 18:00	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 18:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 18:00	1
2-Methylbutane	**0.73**		0.50	0.031	ppb v/v			03/20/14 18:00	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 18:00	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 18:00	1
4-Methyl-2-pentanone (MIBK)	**0.35**	**J**	0.50	0.045	ppb v/v			03/20/14 18:00	1
Acetone	**3.9**	**J**	5.0	1.4	ppb v/v			03/20/14 18:00	1
Benzene	**0.21**		0.20	0.056	ppb v/v			03/20/14 18:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 18:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 18:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 18:00	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 18:00	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 18:00	1
Carbon tetrachloride	**0.070**	**J**	0.20	0.038	ppb v/v			03/20/14 18:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 18:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 18:00	1
Chloroform	**0.047**	**J**	0.20	0.038	ppb v/v			03/20/14 18:00	1
Chloromethane	**0.62**		0.50	0.16	ppb v/v			03/20/14 18:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 18:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 18:00	1
Cyclohexane	**0.040**	**J**	0.50	0.040	ppb v/v			03/20/14 18:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 18:00	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/20/14 18:00	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/20/14 18:00	1
Ethylbenzene	**0.79**		0.20	0.068	ppb v/v			03/20/14 18:00	1
Heptane	**0.062**	**J**	0.50	0.047	ppb v/v			03/20/14 18:00	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 18:00	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/20/14 18:00	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 18:00	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 18:00	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/20/14 18:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 18:00	1
Methylene Chloride	**0.40**	**J**	0.50	0.13	ppb v/v			03/20/14 18:00	1
m-Xylene & p-Xylene	**5.4**		0.20	0.12	ppb v/v			03/20/14 18:00	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 18:00	1
o-Xylene	**1.9**		0.20	0.061	ppb v/v			03/20/14 18:00	1
Propene	**1.0**	**cn**	0.50	0.077	ppb v/v			03/20/14 18:00	1
Styrene	**0.066**	**J**	0.20	0.058	ppb v/v			03/20/14 18:00	1
Tetrachloroethene	**0.055**	**J**	0.20	0.040	ppb v/v			03/20/14 18:00	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 18:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 18:00	1
Toluene	**0.44**		0.20	0.12	ppb v/v			03/20/14 18:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 18:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 18:00	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 18:00	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/20/14 18:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 18:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.57**	**J**	1.5	0.24	ug/m3			03/20/14 18:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 18:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 18:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 18:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 18:00	1
1,2,4-Trimethylbenzene	**0.55**	**J**	0.98	0.31	ug/m3			03/20/14 18:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 18:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 18:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 18:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 18:00	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 18:00	1
1,3-Butadiene	**0.15**	**J**	0.88	0.14	ug/m3			03/20/14 18:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 18:00	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 18:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 18:00	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/20/14 18:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 18:00	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 18:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 18:00	1
2-Methylbutane	**2.2**		1.5	0.091	ug/m3			03/20/14 18:00	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 18:00	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 18:00	1
4-Methyl-2-pentanone (MIBK)	**1.4**	**J**	2.0	0.18	ug/m3			03/20/14 18:00	1
Acetone	**9.2**	**J**	12	3.3	ug/m3			03/20/14 18:00	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.68**		0.64	0.18	ug/m3			03/20/14 18:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 18:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 18:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 18:00	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 18:00	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 18:00	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/20/14 18:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 18:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 18:00	1
Chloroform	**0.23**	**J**	0.98	0.19	ug/m3			03/20/14 18:00	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/20/14 18:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 18:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 18:00	1
Cyclohexane	**0.14**	**J**	1.7	0.14	ug/m3			03/20/14 18:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 18:00	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/20/14 18:00	1
Ethanol	**23**		3.8	3.8	ug/m3			03/20/14 18:00	1
Ethylbenzene	**3.4**		0.87	0.30	ug/m3			03/20/14 18:00	1
Heptane	**0.25**	**J**	2.0	0.19	ug/m3			03/20/14 18:00	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 18:00	1
Hexane	**0.38**	**J**	1.8	0.11	ug/m3			03/20/14 18:00	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 18:00	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 18:00	1
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/20/14 18:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 18:00	1
Methylene Chloride	**1.4**	**J**	1.7	0.45	ug/m3			03/20/14 18:00	1
m-Xylene & p-Xylene	**24**		0.87	0.52	ug/m3			03/20/14 18:00	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 18:00	1
o-Xylene	**8.4**		0.87	0.26	ug/m3			03/20/14 18:00	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/20/14 18:00	1
Styrene	**0.28**	**J**	0.85	0.25	ug/m3			03/20/14 18:00	1
Tetrachloroethene	**0.37**	**J**	1.4	0.27	ug/m3			03/20/14 18:00	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 18:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 18:00	1
Toluene	**1.7**		0.75	0.45	ug/m3			03/20/14 18:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 18:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 18:00	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 18:00	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/20/14 18:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/20/14 18:00*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 18:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.061**	**J**	0.20	0.031	ppb v/v			03/20/14 18:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 18:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 18:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 18:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 18:46	1
1,2,4-Trimethylbenzene	**0.11**	**J**	0.20	0.063	ppb v/v			03/20/14 18:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 18:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 18:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 18:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 18:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 18:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:46	1
1,3-Butadiene	**0.33**	**J**	0.40	0.064	ppb v/v			03/20/14 18:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 18:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 18:46	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 18:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 18:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 18:46	1
2-Methylbutane	**0.65**		0.50	0.031	ppb v/v			03/20/14 18:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
4-Ethyltoluene	**0.085**	**J**	0.40	0.066	ppb v/v			03/20/14 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 18:46	1
Acetone	**3.3**	**J**	5.0	1.4	ppb v/v			03/20/14 18:46	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/20/14 18:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 18:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 18:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 18:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 18:46	1
Carbon disulfide	**0.041**	**J**	0.50	0.031	ppb v/v			03/20/14 18:46	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/20/14 18:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 18:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 18:46	1
Chloroform	**0.55**		0.20	0.038	ppb v/v			03/20/14 18:46	1
Chloromethane	**0.49**	**J**	0.50	0.16	ppb v/v			03/20/14 18:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 18:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 18:46	1
Cyclohexane	**0.040**	**J**	0.50	0.040	ppb v/v			03/20/14 18:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 18:46	1
Dichlorodifluoromethane	**0.41**		0.20	0.068	ppb v/v			03/20/14 18:46	1
Ethanol	**13**		2.0	2.0	ppb v/v			03/20/14 18:46	1
Ethylbenzene	**0.36**		0.20	0.068	ppb v/v			03/20/14 18:46	1
Heptane	**0.054**	**J**	0.50	0.047	ppb v/v			03/20/14 18:46	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 18:46	1
Hexane	**0.19**	**J**	0.50	0.032	ppb v/v			03/20/14 18:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 18:46	1
Isopropyl alcohol	**0.91**	**J**	2.0	0.094	ppb v/v			03/20/14 18:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 18:46	1
Methylene Chloride	**0.76**		0.50	0.13	ppb v/v			03/20/14 18:46	1
m-Xylene & p-Xylene	**2.2**		0.20	0.12	ppb v/v			03/20/14 18:46	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 18:46	1
o-Xylene	**0.70**		0.20	0.061	ppb v/v			03/20/14 18:46	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/20/14 18:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 18:46	1
Tetrachloroethene	**0.086**	**J**	0.20	0.040	ppb v/v			03/20/14 18:46	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 18:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
Toluene	**0.41**		0.20	0.12	ppb v/v			03/20/14 18:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 18:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 18:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 18:46	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/20/14 18:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 18:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.47**	**J**	1.5	0.24	ug/m3			03/20/14 18:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 18:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 18:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 18:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 18:46	1
1,2,4-Trimethylbenzene	**0.57**	**J**	0.98	0.31	ug/m3			03/20/14 18:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 18:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 18:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 18:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 18:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 18:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 18:46	1
1,3-Butadiene	**0.73**	**J**	0.88	0.14	ug/m3			03/20/14 18:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 18:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 18:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 18:46	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 18:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 18:46	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 18:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 18:46	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/20/14 18:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 18:46	1
4-Ethyltoluene	**0.42**	**J**	2.0	0.32	ug/m3			03/20/14 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 18:46	1
Acetone	**7.7**	**J**	12	3.3	ug/m3			03/20/14 18:46	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.70**		0.64	0.18	ug/m3			03/20/14 18:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 18:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 18:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 18:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 18:46	1
Carbon disulfide	**0.13**	**J**	1.6	0.097	ug/m3			03/20/14 18:46	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/20/14 18:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 18:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 18:46	1
Chloroform	**2.7**		0.98	0.19	ug/m3			03/20/14 18:46	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/20/14 18:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 18:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 18:46	1
Cyclohexane	**0.14**	**J**	1.7	0.14	ug/m3			03/20/14 18:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 18:46	1
Dichlorodifluoromethane	**2.0**		0.99	0.34	ug/m3			03/20/14 18:46	1
Ethanol	**24**		3.8	3.8	ug/m3			03/20/14 18:46	1
Ethylbenzene	**1.6**		0.87	0.30	ug/m3			03/20/14 18:46	1
Heptane	**0.22**	**J**	2.0	0.19	ug/m3			03/20/14 18:46	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 18:46	1
Hexane	**0.66**	**J**	1.8	0.11	ug/m3			03/20/14 18:46	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 18:46	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 18:46	1
Isopropyl alcohol	**2.2**	**J**	4.9	0.23	ug/m3			03/20/14 18:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 18:46	1
Methylene Chloride	**2.6**		1.7	0.45	ug/m3			03/20/14 18:46	1
m-Xylene & p-Xylene	**9.6**		0.87	0.52	ug/m3			03/20/14 18:46	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 18:46	1
o-Xylene	**3.0**		0.87	0.26	ug/m3			03/20/14 18:46	1
Propene	**2.3**	**cn**	0.86	0.13	ug/m3			03/20/14 18:46	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 18:46	1
Tetrachloroethene	**0.58**	**J**	1.4	0.27	ug/m3			03/20/14 18:46	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 18:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 18:46	1
Toluene	**1.6**		0.75	0.45	ug/m3			03/20/14 18:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 18:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 18:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 18:46	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/20/14 18:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/20/14 18:46*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**J**	0.20	0.031	ppb v/v			03/20/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 19:31	1
1,2,4-Trimethylbenzene	**0.076**	**J**	0.20	0.063	ppb v/v			03/20/14 19:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 19:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 19:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 19:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 19:31	1
1,3-Butadiene	**0.078**	**J**	0.40	0.064	ppb v/v			03/20/14 19:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 19:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 19:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 19:31	1
2,2,4-Trimethylpentane	**0.041**	**J**	0.50	0.039	ppb v/v			03/20/14 19:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 19:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 19:31	1
2-Methylbutane	**0.81**		0.50	0.031	ppb v/v			03/20/14 19:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 19:31	1
4-Methyl-2-pentanone (MIBK)	**0.24**	**J**	0.50	0.045	ppb v/v			03/20/14 19:31	1
Acetone	**2.6**	**J**	5.0	1.4	ppb v/v			03/20/14 19:31	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/20/14 19:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 19:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 19:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 19:31	1
Bromomethane	**0.054**	**J**	0.20	0.032	ppb v/v			03/20/14 19:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 19:31	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/20/14 19:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 19:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 19:31	1
Chloroform	**0.11**	**J**	0.20	0.038	ppb v/v			03/20/14 19:31	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/20/14 19:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 19:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 19:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 19:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 19:31	1
Dichlorodifluoromethane	**0.42**		0.20	0.068	ppb v/v			03/20/14 19:31	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/20/14 19:31	1
Ethylbenzene	**0.29**		0.20	0.068	ppb v/v			03/20/14 19:31	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 19:31	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 19:31	1
Hexane	**0.10**	**J**	0.50	0.032	ppb v/v			03/20/14 19:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 19:31	1
Isopropyl alcohol	**1.6**	**J**	2.0	0.094	ppb v/v			03/20/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 19:31	1
Methylene Chloride	**0.43**	**J**	0.50	0.13	ppb v/v			03/20/14 19:31	1
m-Xylene & p-Xylene	**1.9**		0.20	0.12	ppb v/v			03/20/14 19:31	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 19:31	1
o-Xylene	**0.61**		0.20	0.061	ppb v/v			03/20/14 19:31	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/20/14 19:31	1
Styrene	**0.12**	**J**	0.20	0.058	ppb v/v			03/20/14 19:31	1
Tetrachloroethene	**0.065**	**J**	0.20	0.040	ppb v/v			03/20/14 19:31	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 19:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
Toluene	**0.38**		0.20	0.12	ppb v/v			03/20/14 19:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 19:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 19:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 19:31	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/20/14 19:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 19:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.54**	**J**	1.5	0.24	ug/m3			03/20/14 19:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 19:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 19:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 19:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 19:31	1
1,2,4-Trimethylbenzene	**0.37**	**J**	0.98	0.31	ug/m3			03/20/14 19:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 19:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 19:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 19:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 19:31	1
1,3-Butadiene	**0.17**	**J**	0.88	0.14	ug/m3			03/20/14 19:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 19:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 19:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 19:31	1
2,2,4-Trimethylpentane	**0.19**	**J**	2.3	0.18	ug/m3			03/20/14 19:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 19:31	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 19:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 19:31	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/20/14 19:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 19:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 19:31	1
4-Methyl-2-pentanone (MIBK)	**0.98**	**J**	2.0	0.18	ug/m3			03/20/14 19:31	1
Acetone	**6.2**	**J**	12	3.3	ug/m3			03/20/14 19:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.60**	**J**	0.64	0.18	ug/m3			03/20/14 19:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 19:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 19:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 19:31	1
Bromomethane	**0.21**	**J**	0.78	0.12	ug/m3			03/20/14 19:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 19:31	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/20/14 19:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 19:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 19:31	1
Chloroform	**0.52**	**J**	0.98	0.19	ug/m3			03/20/14 19:31	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/20/14 19:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 19:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 19:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 19:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 19:31	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/20/14 19:31	1
Ethanol	**23**		3.8	3.8	ug/m3			03/20/14 19:31	1
Ethylbenzene	**1.3**		0.87	0.30	ug/m3			03/20/14 19:31	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 19:31	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 19:31	1
Hexane	**0.36**	**J**	1.8	0.11	ug/m3			03/20/14 19:31	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 19:31	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 19:31	1
Isopropyl alcohol	**4.0**	**J**	4.9	0.23	ug/m3			03/20/14 19:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 19:31	1
Methylene Chloride	**1.5**	**J**	1.7	0.45	ug/m3			03/20/14 19:31	1
m-Xylene & p-Xylene	**8.1**		0.87	0.52	ug/m3			03/20/14 19:31	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 19:31	1
o-Xylene	**2.7**		0.87	0.26	ug/m3			03/20/14 19:31	1
Propene	**1.9**	**cn**	0.86	0.13	ug/m3			03/20/14 19:31	1
Styrene	**0.50**	**J**	0.85	0.25	ug/m3			03/20/14 19:31	1
Tetrachloroethene	**0.44**	**J**	1.4	0.27	ug/m3			03/20/14 19:31	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 19:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 19:31	1
Toluene	**1.5**		0.75	0.45	ug/m3			03/20/14 19:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 19:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 19:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 19:31	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/20/14 19:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/20/14 19:31*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 20:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 20:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.087**	**J**	0.20	0.031	ppb v/v			03/20/14 20:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 20:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 20:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 20:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 20:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 20:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 20:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 20:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 20:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 20:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 20:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 20:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 20:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 20:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 20:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 20:16	1
2,2,4-Trimethylpentane	**0.042**	**J**	0.50	0.039	ppb v/v			03/20/14 20:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
2-Butanone (MEK)	**0.24**	**J**	1.0	0.20	ppb v/v			03/20/14 20:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 20:16	1
2-Methylbutane	**0.87**		0.50	0.031	ppb v/v			03/20/14 20:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 20:16	1
4-Methyl-2-pentanone (MIBK)	**0.095**	**J**	0.50	0.045	ppb v/v			03/20/14 20:16	1
Acetone	**3.0**	**J**	5.0	1.4	ppb v/v			03/20/14 20:16	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/20/14 20:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 20:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 20:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 20:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 20:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 20:16	1
Carbon tetrachloride	**0.088**	**J**	0.20	0.038	ppb v/v			03/20/14 20:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 20:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 20:16	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 20:16	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/20/14 20:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 20:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 20:16	1
Cyclohexane	**0.080**	**J**	0.50	0.040	ppb v/v			03/20/14 20:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 20:16	1
Dichlorodifluoromethane	**0.50**		0.20	0.068	ppb v/v			03/20/14 20:16	1
Ethanol	**10**		2.0	2.0	ppb v/v			03/20/14 20:16	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 20:16	1
Heptane	**0.11**	**J**	0.50	0.047	ppb v/v			03/20/14 20:16	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 20:16	1
Hexane	**0.24**	**J**	0.50	0.032	ppb v/v			03/20/14 20:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 20:16	1
Isopropyl alcohol	**0.95**	**J**	2.0	0.094	ppb v/v			03/20/14 20:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 20:16	1
Methylene Chloride	**0.85**		0.50	0.13	ppb v/v			03/20/14 20:16	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 20:16	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 20:16	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 20:16	1
Propene	**0.97**	**cn**	0.50	0.077	ppb v/v			03/20/14 20:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 20:16	1
Tetrachloroethene	**0.068**	**J**	0.20	0.040	ppb v/v			03/20/14 20:16	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 20:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
Toluene	**0.32**		0.20	0.12	ppb v/v			03/20/14 20:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 20:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 20:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 20:16	1
Trichlorofluoromethane	**0.32**		0.20	0.024	ppb v/v			03/20/14 20:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 20:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 20:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 20:16	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.66**	**J**	1.5	0.24	ug/m3			03/20/14 20:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 20:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 20:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 20:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 20:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 20:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 20:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 20:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 20:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 20:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 20:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 20:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 20:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 20:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 20:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 20:16	1
2,2,4-Trimethylpentane	**0.20**	**J**	2.3	0.18	ug/m3			03/20/14 20:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 20:16	1
2-Butanone (MEK)	**0.72**	**J**	2.9	0.59	ug/m3			03/20/14 20:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 20:16	1
2-Methylbutane	**2.6**		1.5	0.091	ug/m3			03/20/14 20:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 20:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 20:16	1
4-Methyl-2-pentanone (MIBK)	**0.39**	**J**	2.0	0.18	ug/m3			03/20/14 20:16	1
Acetone	**7.2**	**J**	12	3.3	ug/m3			03/20/14 20:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.70**		0.64	0.18	ug/m3			03/20/14 20:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 20:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 20:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 20:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 20:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 20:16	1
Carbon tetrachloride	**0.56**	**J**	1.3	0.24	ug/m3			03/20/14 20:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 20:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 20:16	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 20:16	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/20/14 20:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 20:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 20:16	1
Cyclohexane	**0.27**	**J**	1.7	0.14	ug/m3			03/20/14 20:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 20:16	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/20/14 20:16	1
Ethanol	**19**		3.8	3.8	ug/m3			03/20/14 20:16	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 20:16	1
Heptane	**0.46**	**J**	2.0	0.19	ug/m3			03/20/14 20:16	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 20:16	1
Hexane	**0.83**	**J**	1.8	0.11	ug/m3			03/20/14 20:16	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 20:16	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 20:16	1
Isopropyl alcohol	**2.3**	**J**	4.9	0.23	ug/m3			03/20/14 20:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 20:16	1
Methylene Chloride	**3.0**		1.7	0.45	ug/m3			03/20/14 20:16	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 20:16	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 20:16	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 20:16	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/20/14 20:16	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 20:16	1
Tetrachloroethene	**0.46**	**J**	1.4	0.27	ug/m3			03/20/14 20:16	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 20:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 20:16	1
Toluene	**1.2**		0.75	0.45	ug/m3			03/20/14 20:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 20:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 20:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 20:16	1
Trichlorofluoromethane	**1.8**		1.1	0.13	ug/m3			03/20/14 20:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*03/20/14 20:16*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B17
Date Collected: 03/14/14 08:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.081**	**J**	0.20	0.031	ppb v/v			03/20/14 21:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 21:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 21:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 21:00	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 21:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 21:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 21:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 21:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 21:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 21:00	1
1,3-Butadiene	**0.097**	**J**	0.40	0.064	ppb v/v			03/20/14 21:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 21:00	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 21:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 21:00	1
2,2,4-Trimethylpentane	**0.054**	**J**	0.50	0.039	ppb v/v			03/20/14 21:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 21:00	1
2-Butanone (MEK)	**0.20**	**J**	1.0	0.20	ppb v/v			03/20/14 21:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 21:00	1
2-Methylbutane	**0.85**		0.50	0.031	ppb v/v			03/20/14 21:00	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 21:00	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 21:00	1
4-Methyl-2-pentanone (MIBK)	**0.072**	**J**	0.50	0.045	ppb v/v			03/20/14 21:00	1
Acetone	**2.1**	**J**	5.0	1.4	ppb v/v			03/20/14 21:00	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/20/14 21:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 21:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 21:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 21:00	1
Bromomethane	**0.045**	**J**	0.20	0.032	ppb v/v			03/20/14 21:00	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 21:00	1
Carbon tetrachloride	**0.088**	**J**	0.20	0.038	ppb v/v			03/20/14 21:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 21:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 21:00	1
Chloroform	**0.060**	**J**	0.20	0.038	ppb v/v			03/20/14 21:00	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/20/14 21:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 21:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 21:00	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 21:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 21:00	1
Dichlorodifluoromethane	**0.48**		0.20	0.068	ppb v/v			03/20/14 21:00	1
Ethanol	**11**		2.0	2.0	ppb v/v			03/20/14 21:00	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 21:00	1
Heptane	**0.051**	**J**	0.50	0.047	ppb v/v			03/20/14 21:00	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 21:00	1
Hexane	**0.12**	**J**	0.50	0.032	ppb v/v			03/20/14 21:00	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B17
Date Collected: 03/14/14 08:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 21:00	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 21:00	1
Isopropyl alcohol	**2.6**		2.0	0.094	ppb v/v			03/20/14 21:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 21:00	1
Methylene Chloride	**0.85**		0.50	0.13	ppb v/v			03/20/14 21:00	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 21:00	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 21:00	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 21:00	1
Propene	**1.0**	**cn**	0.50	0.077	ppb v/v			03/20/14 21:00	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 21:00	1
Tetrachloroethene	**0.41**		0.20	0.040	ppb v/v			03/20/14 21:00	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 21:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 21:00	1
Toluene	**0.24**		0.20	0.12	ppb v/v			03/20/14 21:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 21:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 21:00	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 21:00	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/20/14 21:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 21:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.62**	**J**	1.5	0.24	ug/m3			03/20/14 21:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 21:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 21:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 21:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 21:00	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 21:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 21:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 21:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 21:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 21:00	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 21:00	1
1,3-Butadiene	**0.22**	**J**	0.88	0.14	ug/m3			03/20/14 21:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 21:00	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 21:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 21:00	1
2,2,4-Trimethylpentane	**0.25**	**J**	2.3	0.18	ug/m3			03/20/14 21:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 21:00	1
2-Butanone (MEK)	**0.60**	**J**	2.9	0.59	ug/m3			03/20/14 21:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 21:00	1
2-Methylbutane	**2.5**		1.5	0.091	ug/m3			03/20/14 21:00	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 21:00	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 21:00	1
4-Methyl-2-pentanone (MIBK)	**0.29**	**J**	2.0	0.18	ug/m3			03/20/14 21:00	1
Acetone	**4.9**	**J**	12	3.3	ug/m3			03/20/14 21:00	1

Client Sample ID: PCV-IA1-B17

Lab Sample ID: 140-1060-9

Date Collected: 03/14/14 08:50

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.74**		0.64	0.18	ug/m3			03/20/14 21:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 21:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 21:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 21:00	1
Bromomethane	**0.17**	**J**	0.78	0.12	ug/m3			03/20/14 21:00	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 21:00	1
Carbon tetrachloride	**0.55**	**J**	1.3	0.24	ug/m3			03/20/14 21:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 21:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 21:00	1
Chloroform	**0.29**	**J**	0.98	0.19	ug/m3			03/20/14 21:00	1
Chloromethane	**1.0**		1.0	0.33	ug/m3			03/20/14 21:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 21:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 21:00	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 21:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 21:00	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/20/14 21:00	1
Ethanol	**20**		3.8	3.8	ug/m3			03/20/14 21:00	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 21:00	1
Heptane	**0.21**	**J**	2.0	0.19	ug/m3			03/20/14 21:00	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 21:00	1
Hexane	**0.42**	**J**	1.8	0.11	ug/m3			03/20/14 21:00	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 21:00	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 21:00	1
Isopropyl alcohol	**6.3**		4.9	0.23	ug/m3			03/20/14 21:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 21:00	1
Methylene Chloride	**3.0**		1.7	0.45	ug/m3			03/20/14 21:00	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 21:00	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 21:00	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 21:00	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/20/14 21:00	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 21:00	1
Tetrachloroethene	**2.8**		1.4	0.27	ug/m3			03/20/14 21:00	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 21:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 21:00	1
Toluene	**0.91**		0.75	0.45	ug/m3			03/20/14 21:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 21:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 21:00	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 21:00	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/20/14 21:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/20/14 21:00*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B17
Date Collected: 03/14/14 16:30
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.082**	**J**	0.20	0.031	ppb v/v			03/20/14 21:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 21:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 21:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 21:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 21:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 21:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 21:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 21:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 21:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 21:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 21:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 21:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 21:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 21:45	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 21:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 21:45	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 21:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 21:45	1
2-Butanone (MEK)	**0.34**	**J**	1.0	0.20	ppb v/v			03/20/14 21:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 21:45	1
2-Methylbutane	**0.73**		0.50	0.031	ppb v/v			03/20/14 21:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 21:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 21:45	1
Acetone	**4.3**	**J**	5.0	1.4	ppb v/v			03/20/14 21:45	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/20/14 21:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 21:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 21:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 21:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 21:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 21:45	1
Carbon tetrachloride	**0.090**	**J**	0.20	0.038	ppb v/v			03/20/14 21:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 21:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 21:45	1
Chloroform	**0.040**	**J**	0.20	0.038	ppb v/v			03/20/14 21:45	1
Chloromethane	**0.84**		0.50	0.16	ppb v/v			03/20/14 21:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 21:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 21:45	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 21:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 21:45	1
Dichlorodifluoromethane	**0.53**		0.20	0.068	ppb v/v			03/20/14 21:45	1
Ethanol	**11**		2.0	2.0	ppb v/v			03/20/14 21:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 21:45	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 21:45	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 21:45	1
Hexane	**0.10**	**J**	0.50	0.032	ppb v/v			03/20/14 21:45	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B17
Date Collected: 03/14/14 16:30
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 21:45	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 21:45	1
Isopropyl alcohol	**7.9**		2.0	0.094	ppb v/v			03/20/14 21:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 21:45	1
Methylene Chloride	**8.9**		0.50	0.13	ppb v/v			03/20/14 21:45	1
m-Xylene & p-Xylene	**0.19**	**J**	0.20	0.12	ppb v/v			03/20/14 21:45	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 21:45	1
o-Xylene	**0.076**	**J**	0.20	0.061	ppb v/v			03/20/14 21:45	1
Propene	**0.82**	**cn**	0.50	0.077	ppb v/v			03/20/14 21:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 21:45	1
Tetrachloroethene	**0.051**	**J**	0.20	0.040	ppb v/v			03/20/14 21:45	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 21:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 21:45	1
Toluene	**0.22**		0.20	0.12	ppb v/v			03/20/14 21:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 21:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 21:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 21:45	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/20/14 21:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 21:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 21:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.63**	**J**	1.5	0.24	ug/m3			03/20/14 21:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 21:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 21:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 21:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 21:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 21:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 21:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 21:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 21:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 21:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 21:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 21:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 21:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 21:45	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 21:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 21:45	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 21:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 21:45	1
2-Butanone (MEK)	**1.0**	**J**	2.9	0.59	ug/m3			03/20/14 21:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 21:45	1
2-Methylbutane	**2.2**		1.5	0.091	ug/m3			03/20/14 21:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 21:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 21:45	1
Acetone	**10**	**J**	12	3.3	ug/m3			03/20/14 21:45	1

Client Sample ID: PCV-IA2-B17
Lab Sample ID: 140-1060-10
Date Collected: 03/14/14 16:30
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.63**		0.64	0.18	ug/m3			03/20/14 21:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 21:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 21:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 21:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 21:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 21:45	1
Carbon tetrachloride	**0.57**	**J**	1.3	0.24	ug/m3			03/20/14 21:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 21:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 21:45	1
Chloroform	**0.19**	**J**	0.98	0.19	ug/m3			03/20/14 21:45	1
Chloromethane	**1.7**		1.0	0.33	ug/m3			03/20/14 21:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 21:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 21:45	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 21:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 21:45	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			03/20/14 21:45	1
Ethanol	**20**		3.8	3.8	ug/m3			03/20/14 21:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 21:45	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 21:45	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 21:45	1
Hexane	**0.36**	**J**	1.8	0.11	ug/m3			03/20/14 21:45	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 21:45	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 21:45	1
Isopropyl alcohol	**19**		4.9	0.23	ug/m3			03/20/14 21:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 21:45	1
Methylene Chloride	**31**		1.7	0.45	ug/m3			03/20/14 21:45	1
m-Xylene & p-Xylene	**0.83**	**J**	0.87	0.52	ug/m3			03/20/14 21:45	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 21:45	1
o-Xylene	**0.33**	**J**	0.87	0.26	ug/m3			03/20/14 21:45	1
Propene	**1.4**	**cn**	0.86	0.13	ug/m3			03/20/14 21:45	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 21:45	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/20/14 21:45	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 21:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 21:45	1
Toluene	**0.83**		0.75	0.45	ug/m3			03/20/14 21:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 21:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 21:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 21:45	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/20/14 21:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/20/14 21:45*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 22:30	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/20/14 22:30	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 22:30	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 22:30	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 22:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 22:30	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 22:30	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 22:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 22:30	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 22:30	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 22:30	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 22:30	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 22:30	1
1,3-Butadiene	**0.076**	**J**	0.40	0.064	ppb v/v			03/20/14 22:30	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 22:30	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 22:30	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 22:30	1
2,2,4-Trimethylpentane	**0.044**	**J**	0.50	0.039	ppb v/v			03/20/14 22:30	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 22:30	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 22:30	1
2-Methylbutane	**0.80**		0.50	0.031	ppb v/v			03/20/14 22:30	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 22:30	1
4-Methyl-2-pentanone (MIBK)	**0.054**	**J**	0.50	0.045	ppb v/v			03/20/14 22:30	1
Acetone	**2.6**	**J**	5.0	1.4	ppb v/v			03/20/14 22:30	1
Benzene	**0.18**	**J**	0.20	0.056	ppb v/v			03/20/14 22:30	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 22:30	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 22:30	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 22:30	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 22:30	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 22:30	1
Carbon tetrachloride	**0.073**	**J**	0.20	0.038	ppb v/v			03/20/14 22:30	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 22:30	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 22:30	1
Chloroform	**0.098**	**J**	0.20	0.038	ppb v/v			03/20/14 22:30	1
Chloromethane	**0.41**	**J**	0.50	0.16	ppb v/v			03/20/14 22:30	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 22:30	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 22:30	1
Cyclohexane	**0.046**	**J**	0.50	0.040	ppb v/v			03/20/14 22:30	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 22:30	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/20/14 22:30	1
Ethanol	**13**		2.0	2.0	ppb v/v			03/20/14 22:30	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 22:30	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 22:30	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 22:30	1
Hexane	**0.15**	**J**	0.50	0.032	ppb v/v			03/20/14 22:30	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 22:30	1
Isopropyl alcohol	**8.8**		2.0	0.094	ppb v/v			03/20/14 22:30	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 22:30	1
Methylene Chloride	**1.6**		0.50	0.13	ppb v/v			03/20/14 22:30	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 22:30	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 22:30	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 22:30	1
Propene	**0.92**	**cn**	0.50	0.077	ppb v/v			03/20/14 22:30	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 22:30	1
Tetrachloroethene	**0.052**	**J**	0.20	0.040	ppb v/v			03/20/14 22:30	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 22:30	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
Toluene	**0.16**	**J**	0.20	0.12	ppb v/v			03/20/14 22:30	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 22:30	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 22:30	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 22:30	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/20/14 22:30	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 22:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 22:30	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.51**	**J**	1.5	0.24	ug/m3			03/20/14 22:30	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 22:30	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 22:30	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 22:30	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 22:30	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 22:30	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 22:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 22:30	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 22:30	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 22:30	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 22:30	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 22:30	1
1,3-Butadiene	**0.17**	**J**	0.88	0.14	ug/m3			03/20/14 22:30	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 22:30	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 22:30	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 22:30	1
2,2,4-Trimethylpentane	**0.21**	**J**	2.3	0.18	ug/m3			03/20/14 22:30	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 22:30	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 22:30	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 22:30	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/20/14 22:30	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 22:30	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 22:30	1
4-Methyl-2-pentanone (MIBK)	**0.22**	**J**	2.0	0.18	ug/m3			03/20/14 22:30	1
Acetone	**6.2**	**J**	12	3.3	ug/m3			03/20/14 22:30	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.57**	**J**	0.64	0.18	ug/m3			03/20/14 22:30	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 22:30	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 22:30	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 22:30	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 22:30	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 22:30	1
Carbon tetrachloride	**0.46**	**J**	1.3	0.24	ug/m3			03/20/14 22:30	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 22:30	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 22:30	1
Chloroform	**0.48**	**J**	0.98	0.19	ug/m3			03/20/14 22:30	1
Chloromethane	**0.84**	**J**	1.0	0.33	ug/m3			03/20/14 22:30	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 22:30	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 22:30	1
Cyclohexane	**0.16**	**J**	1.7	0.14	ug/m3			03/20/14 22:30	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 22:30	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/20/14 22:30	1
Ethanol	**24**		3.8	3.8	ug/m3			03/20/14 22:30	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 22:30	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 22:30	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 22:30	1
Hexane	**0.53**	**J**	1.8	0.11	ug/m3			03/20/14 22:30	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 22:30	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 22:30	1
Isopropyl alcohol	**22**		4.9	0.23	ug/m3			03/20/14 22:30	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 22:30	1
Methylene Chloride	**5.7**		1.7	0.45	ug/m3			03/20/14 22:30	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 22:30	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 22:30	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 22:30	1
Propene	**1.6**	**cn**	0.86	0.13	ug/m3			03/20/14 22:30	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 22:30	1
Tetrachloroethene	**0.36**	**J**	1.4	0.27	ug/m3			03/20/14 22:30	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 22:30	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 22:30	1
Toluene	**0.60**	**J**	0.75	0.45	ug/m3			03/20/14 22:30	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 22:30	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 22:30	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 22:30	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/20/14 22:30	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/20/14 22:30*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B17
Date Collected: 03/14/14 13:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 23:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**J**	0.20	0.031	ppb v/v			03/20/14 23:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 23:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 23:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 23:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 23:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 23:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 23:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 23:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 23:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 23:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 23:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 23:16	1
1,3-Butadiene	**0.10**	**J**	0.40	0.064	ppb v/v			03/20/14 23:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 23:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 23:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 23:16	1
2,2,4-Trimethylpentane	**0.051**	**J**	0.50	0.039	ppb v/v			03/20/14 23:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 23:16	1
2-Butanone (MEK)	**0.43**	**J**	1.0	0.20	ppb v/v			03/20/14 23:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 23:16	1
2-Methylbutane	**0.97**		0.50	0.031	ppb v/v			03/20/14 23:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 23:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 23:16	1
4-Methyl-2-pentanone (MIBK)	**0.059**	**J**	0.50	0.045	ppb v/v			03/20/14 23:16	1
Acetone	**5.0**		5.0	1.4	ppb v/v			03/20/14 23:16	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/20/14 23:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 23:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 23:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 23:16	1
Bromomethane	**0.047**	**J**	0.20	0.032	ppb v/v			03/20/14 23:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 23:16	1
Carbon tetrachloride	**0.088**	**J**	0.20	0.038	ppb v/v			03/20/14 23:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 23:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 23:16	1
Chloroform	**0.085**	**J**	0.20	0.038	ppb v/v			03/20/14 23:16	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/20/14 23:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 23:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 23:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 23:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 23:16	1
Dichlorodifluoromethane	**0.51**		0.20	0.068	ppb v/v			03/20/14 23:16	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/20/14 23:16	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 23:16	1
Heptane	**0.060**	**J**	0.50	0.047	ppb v/v			03/20/14 23:16	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/20/14 23:16	1
Hexane	**0.12**	**J**	0.50	0.032	ppb v/v			03/20/14 23:16	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B17
Date Collected: 03/14/14 13:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 23:16	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 23:16	1
Isopropyl alcohol	**5.4**		2.0	0.094	ppb v/v			03/20/14 23:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 23:16	1
Methylene Chloride	**3.1**		0.50	0.13	ppb v/v			03/20/14 23:16	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 23:16	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/20/14 23:16	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 23:16	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/20/14 23:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 23:16	1
Tetrachloroethene	**0.061**	**J**	0.20	0.040	ppb v/v			03/20/14 23:16	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/20/14 23:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 23:16	1
Toluene	**0.28**		0.20	0.12	ppb v/v			03/20/14 23:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 23:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 23:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 23:16	1
Trichlorofluoromethane	**0.30**		0.20	0.024	ppb v/v			03/20/14 23:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 23:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 23:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.63**	**J**	1.5	0.24	ug/m3			03/20/14 23:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 23:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 23:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 23:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 23:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 23:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 23:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 23:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 23:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 23:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 23:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 23:16	1
1,3-Butadiene	**0.22**	**J**	0.88	0.14	ug/m3			03/20/14 23:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 23:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 23:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 23:16	1
2,2,4-Trimethylpentane	**0.24**	**J**	2.3	0.18	ug/m3			03/20/14 23:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 23:16	1
2-Butanone (MEK)	**1.3**	**J**	2.9	0.59	ug/m3			03/20/14 23:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 23:16	1
2-Methylbutane	**2.8**		1.5	0.091	ug/m3			03/20/14 23:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 23:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 23:16	1
4-Methyl-2-pentanone (MIBK)	**0.24**	**J**	2.0	0.18	ug/m3			03/20/14 23:16	1
Acetone	**12**		12	3.3	ug/m3			03/20/14 23:16	1

Client Sample ID: PCV-IA3-B17
Lab Sample ID: 140-1060-12
Date Collected: 03/14/14 13:55
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.76**		0.64	0.18	ug/m3			03/20/14 23:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 23:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 23:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 23:16	1
Bromomethane	**0.18**	**J**	0.78	0.12	ug/m3			03/20/14 23:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 23:16	1
Carbon tetrachloride	**0.56**	**J**	1.3	0.24	ug/m3			03/20/14 23:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 23:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 23:16	1
Chloroform	**0.41**	**J**	0.98	0.19	ug/m3			03/20/14 23:16	1
Chloromethane	**1.0**		1.0	0.33	ug/m3			03/20/14 23:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 23:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 23:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 23:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 23:16	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/20/14 23:16	1
Ethanol	**23**		3.8	3.8	ug/m3			03/20/14 23:16	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 23:16	1
Heptane	**0.24**	**J**	2.0	0.19	ug/m3			03/20/14 23:16	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/20/14 23:16	1
Hexane	**0.44**	**J**	1.8	0.11	ug/m3			03/20/14 23:16	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 23:16	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 23:16	1
Isopropyl alcohol	**13**		4.9	0.23	ug/m3			03/20/14 23:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 23:16	1
Methylene Chloride	**11**		1.7	0.45	ug/m3			03/20/14 23:16	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 23:16	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/20/14 23:16	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 23:16	1
Propene	**2.0**	**cn**	0.86	0.13	ug/m3			03/20/14 23:16	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 23:16	1
Tetrachloroethene	**0.41**	**J**	1.4	0.27	ug/m3			03/20/14 23:16	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/20/14 23:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 23:16	1
Toluene	**1.0**		0.75	0.45	ug/m3			03/20/14 23:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 23:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 23:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 23:16	1
Trichlorofluoromethane	**1.7**		1.1	0.13	ug/m3			03/20/14 23:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/20/14 23:16*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**J**	0.20	0.031	ppb v/v			03/21/14 00:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 00:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 00:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 00:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 00:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 00:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 00:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 00:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 00:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 00:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 00:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 00:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 00:01	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 00:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 00:01	1
2-Methylbutane	**0.88**		0.50	0.031	ppb v/v			03/21/14 00:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 00:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 00:01	1
4-Methyl-2-pentanone (MIBK)	**0.048**	**J**	0.50	0.045	ppb v/v			03/21/14 00:01	1
Acetone	**2.4**	**J**	5.0	1.4	ppb v/v			03/21/14 00:01	1
Benzene	**0.16**	**J**	0.20	0.056	ppb v/v			03/21/14 00:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 00:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 00:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 00:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 00:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 00:01	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/21/14 00:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 00:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 00:01	1
Chloroform	**0.18**	**J**	0.20	0.038	ppb v/v			03/21/14 00:01	1
Chloromethane	**0.41**	**J**	0.50	0.16	ppb v/v			03/21/14 00:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 00:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 00:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 00:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 00:01	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/21/14 00:01	1
Ethanol	**9.9**		2.0	2.0	ppb v/v			03/21/14 00:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 00:01	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 00:01	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 00:01	1
Hexane	**0.081**	**J**	0.50	0.032	ppb v/v			03/21/14 00:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 00:01	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 00:01	1
Isopropyl alcohol	**18**		2.0	0.094	ppb v/v			03/21/14 00:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 00:01	1
Methylene Chloride	**1.3**		0.50	0.13	ppb v/v			03/21/14 00:01	1
m-Xylene & p-Xylene	**0.13**	**J**	0.20	0.12	ppb v/v			03/21/14 00:01	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 00:01	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 00:01	1
Propene	**0.76**	**cn**	0.50	0.077	ppb v/v			03/21/14 00:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 00:01	1
Tetrachloroethene	**0.057**	**J**	0.20	0.040	ppb v/v			03/21/14 00:01	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 00:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 00:01	1
Toluene	**0.18**	**J**	0.20	0.12	ppb v/v			03/21/14 00:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 00:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 00:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 00:01	1
Trichlorofluoromethane	**0.26**		0.20	0.024	ppb v/v			03/21/14 00:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 00:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.53**	**J**	1.5	0.24	ug/m3			03/21/14 00:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 00:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 00:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 00:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 00:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 00:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 00:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 00:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 00:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 00:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 00:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 00:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 00:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 00:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 00:01	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 00:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 00:01	1
2-Methylbutane	**2.6**		1.5	0.091	ug/m3			03/21/14 00:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 00:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 00:01	1
4-Methyl-2-pentanone (MIBK)	**0.20**	**J**	2.0	0.18	ug/m3			03/21/14 00:01	1
Acetone	**5.8**	**J**	12	3.3	ug/m3			03/21/14 00:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.50**	**J**	0.64	0.18	ug/m3			03/21/14 00:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 00:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 00:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 00:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 00:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 00:01	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/21/14 00:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 00:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 00:01	1
Chloroform	**0.90**	**J**	0.98	0.19	ug/m3			03/21/14 00:01	1
Chloromethane	**0.85**	**J**	1.0	0.33	ug/m3			03/21/14 00:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 00:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 00:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 00:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 00:01	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/21/14 00:01	1
Ethanol	**19**		3.8	3.8	ug/m3			03/21/14 00:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 00:01	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 00:01	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 00:01	1
Hexane	**0.29**	**J**	1.8	0.11	ug/m3			03/21/14 00:01	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 00:01	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 00:01	1
Isopropyl alcohol	**45**		4.9	0.23	ug/m3			03/21/14 00:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 00:01	1
Methylene Chloride	**4.6**		1.7	0.45	ug/m3			03/21/14 00:01	1
m-Xylene & p-Xylene	**0.57**	**J**	0.87	0.52	ug/m3			03/21/14 00:01	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 00:01	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 00:01	1
Propene	**1.3**	**cn**	0.86	0.13	ug/m3			03/21/14 00:01	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 00:01	1
Tetrachloroethene	**0.39**	**J**	1.4	0.27	ug/m3			03/21/14 00:01	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 00:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 00:01	1
Toluene	**0.67**	**J**	0.75	0.45	ug/m3			03/21/14 00:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 00:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 00:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 00:01	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/21/14 00:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/21/14 00:01*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA5-B17
Lab Sample ID: 140-1060-14
Date Collected: 03/14/14 15:55
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 00:47	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**J**	0.20	0.031	ppb v/v			03/21/14 00:47	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 00:47	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 00:47	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 00:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 00:47	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 00:47	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 00:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 00:47	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 00:47	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 00:47	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 00:47	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:47	1
1,3-Butadiene	**0.087**	**J**	0.40	0.064	ppb v/v			03/21/14 00:47	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:47	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 00:47	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 00:47	1
2,2,4-Trimethylpentane	**0.040**	**J**	0.50	0.039	ppb v/v			03/21/14 00:47	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
2-Butanone (MEK)	**0.31**	**J**	1.0	0.20	ppb v/v			03/21/14 00:47	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 00:47	1
2-Methylbutane	**0.88**		0.50	0.031	ppb v/v			03/21/14 00:47	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 00:47	1
4-Methyl-2-pentanone (MIBK)	**0.11**	**J**	0.50	0.045	ppb v/v			03/21/14 00:47	1
Acetone	**4.3**	**J**	5.0	1.4	ppb v/v			03/21/14 00:47	1
Benzene	**0.26**		0.20	0.056	ppb v/v			03/21/14 00:47	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 00:47	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 00:47	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 00:47	1
Bromomethane	**0.034**	**J**	0.20	0.032	ppb v/v			03/21/14 00:47	1
Carbon disulfide	**0.10**	**J**	0.50	0.031	ppb v/v			03/21/14 00:47	1
Carbon tetrachloride	**0.084**	**J**	0.20	0.038	ppb v/v			03/21/14 00:47	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 00:47	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 00:47	1
Chloroform	**0.60**		0.20	0.038	ppb v/v			03/21/14 00:47	1
Chloromethane	**0.73**		0.50	0.16	ppb v/v			03/21/14 00:47	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 00:47	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 00:47	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 00:47	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 00:47	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/21/14 00:47	1
Ethanol	**24**		2.0	2.0	ppb v/v			03/21/14 00:47	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 00:47	1
Heptane	**0.055**	**J**	0.50	0.047	ppb v/v			03/21/14 00:47	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 00:47	1
Hexane	**0.10**	**J**	0.50	0.032	ppb v/v			03/21/14 00:47	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA5-B17
Date Collected: 03/14/14 15:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 00:47	1
Isopropyl alcohol	**3.1**		2.0	0.094	ppb v/v			03/21/14 00:47	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 00:47	1
Methylene Chloride	**1.7**		0.50	0.13	ppb v/v			03/21/14 00:47	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 00:47	1
Naphthalene	**0.16**	**J ***	0.50	0.090	ppb v/v			03/21/14 00:47	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 00:47	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/21/14 00:47	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 00:47	1
Tetrachloroethene	**0.055**	**J**	0.20	0.040	ppb v/v			03/21/14 00:47	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 00:47	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
Toluene	**0.22**		0.20	0.12	ppb v/v			03/21/14 00:47	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 00:47	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 00:47	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 00:47	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/21/14 00:47	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 00:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 00:47	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.58**	**J**	1.5	0.24	ug/m3			03/21/14 00:47	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 00:47	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 00:47	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 00:47	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 00:47	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 00:47	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 00:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 00:47	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 00:47	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 00:47	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 00:47	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 00:47	1
1,3-Butadiene	**0.19**	**J**	0.88	0.14	ug/m3			03/21/14 00:47	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 00:47	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 00:47	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 00:47	1
2,2,4-Trimethylpentane	**0.19**	**J**	2.3	0.18	ug/m3			03/21/14 00:47	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 00:47	1
2-Butanone (MEK)	**0.92**	**J**	2.9	0.59	ug/m3			03/21/14 00:47	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 00:47	1
2-Methylbutane	**2.6**		1.5	0.091	ug/m3			03/21/14 00:47	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 00:47	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 00:47	1
4-Methyl-2-pentanone (MIBK)	**0.44**	**J**	2.0	0.18	ug/m3			03/21/14 00:47	1
Acetone	**10**	**J**	12	3.3	ug/m3			03/21/14 00:47	1

Client Sample ID: PCV-IA5-B17

Lab Sample ID: 140-1060-14

Date Collected: 03/14/14 15:55

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.82**		0.64	0.18	ug/m3			03/21/14 00:47	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 00:47	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 00:47	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 00:47	1
Bromomethane	**0.13**	**J**	0.78	0.12	ug/m3			03/21/14 00:47	1
Carbon disulfide	**0.31**	**J**	1.6	0.097	ug/m3			03/21/14 00:47	1
Carbon tetrachloride	**0.53**	**J**	1.3	0.24	ug/m3			03/21/14 00:47	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 00:47	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 00:47	1
Chloroform	**2.9**		0.98	0.19	ug/m3			03/21/14 00:47	1
Chloromethane	**1.5**		1.0	0.33	ug/m3			03/21/14 00:47	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 00:47	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 00:47	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 00:47	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 00:47	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/21/14 00:47	1
Ethanol	**44**		3.8	3.8	ug/m3			03/21/14 00:47	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 00:47	1
Heptane	**0.23**	**J**	2.0	0.19	ug/m3			03/21/14 00:47	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 00:47	1
Hexane	**0.36**	**J**	1.8	0.11	ug/m3			03/21/14 00:47	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 00:47	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 00:47	1
Isopropyl alcohol	**7.7**		4.9	0.23	ug/m3			03/21/14 00:47	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 00:47	1
Methylene Chloride	**5.9**		1.7	0.45	ug/m3			03/21/14 00:47	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 00:47	1
Naphthalene	**0.86**	**J ***	2.6	0.47	ug/m3			03/21/14 00:47	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 00:47	1
Propene	**2.0**	**cn**	0.86	0.13	ug/m3			03/21/14 00:47	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 00:47	1
Tetrachloroethene	**0.37**	**J**	1.4	0.27	ug/m3			03/21/14 00:47	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 00:47	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 00:47	1
Toluene	**0.84**		0.75	0.45	ug/m3			03/21/14 00:47	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 00:47	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 00:47	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 00:47	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/21/14 00:47	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/21/14 00:47*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 01:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.074**	**J**	0.20	0.031	ppb v/v			03/21/14 01:33	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 01:33	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 01:33	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 01:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 01:33	1
1,2,4-Trimethylbenzene	**0.074**	**J**	0.20	0.063	ppb v/v			03/21/14 01:33	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 01:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 01:33	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 01:33	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 01:33	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 01:33	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 01:33	1
1,3-Butadiene	**0.18**	**J**	0.40	0.064	ppb v/v			03/21/14 01:33	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 01:33	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 01:33	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 01:33	1
2,2,4-Trimethylpentane	**0.17**	**J**	0.50	0.039	ppb v/v			03/21/14 01:33	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 01:33	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 01:33	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 01:33	1
2-Methylbutane	**0.81**		0.50	0.031	ppb v/v			03/21/14 01:33	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 01:33	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 01:33	1
4-Methyl-2-pentanone (MIBK)	**0.045**	**J**	0.50	0.045	ppb v/v			03/21/14 01:33	1
Acetone	**4.5**	**J**	5.0	1.4	ppb v/v			03/21/14 01:33	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/21/14 01:33	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 01:33	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 01:33	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 01:33	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 01:33	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 01:33	1
Carbon tetrachloride	**0.080**	**J**	0.20	0.038	ppb v/v			03/21/14 01:33	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 01:33	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 01:33	1
Chloroform	**0.071**	**J**	0.20	0.038	ppb v/v			03/21/14 01:33	1
Chloromethane	**0.55**		0.50	0.16	ppb v/v			03/21/14 01:33	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 01:33	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 01:33	1
Cyclohexane	**0.053**	**J**	0.50	0.040	ppb v/v			03/21/14 01:33	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 01:33	1
Dichlorodifluoromethane	**0.49**		0.20	0.068	ppb v/v			03/21/14 01:33	1
Ethanol	**230**	**E**	2.0	2.0	ppb v/v			03/21/14 01:33	1
Ethylbenzene	**2.2**		0.20	0.068	ppb v/v			03/21/14 01:33	1
Heptane	**0.073**	**J**	0.50	0.047	ppb v/v			03/21/14 01:33	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 01:33	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/21/14 01:33	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 01:33	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 01:33	1
Isopropyl alcohol	**5.9**		2.0	0.094	ppb v/v			03/21/14 01:33	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 01:33	1
Methylene Chloride	**1.2**		0.50	0.13	ppb v/v			03/21/14 01:33	1
m-Xylene & p-Xylene	**12**		0.20	0.12	ppb v/v			03/21/14 01:33	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 01:33	1
o-Xylene	**3.3**		0.20	0.061	ppb v/v			03/21/14 01:33	1
Propene	**1.4**	**cn**	0.50	0.077	ppb v/v			03/21/14 01:33	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 01:33	1
Tetrachloroethene	**0.047**	**J**	0.20	0.040	ppb v/v			03/21/14 01:33	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 01:33	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 01:33	1
Toluene	**3.3**		0.20	0.12	ppb v/v			03/21/14 01:33	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 01:33	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 01:33	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 01:33	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/21/14 01:33	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 01:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 01:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.57**	**J**	1.5	0.24	ug/m3			03/21/14 01:33	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 01:33	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 01:33	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 01:33	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 01:33	1
1,2,4-Trimethylbenzene	**0.37**	**J**	0.98	0.31	ug/m3			03/21/14 01:33	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 01:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 01:33	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 01:33	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 01:33	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 01:33	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 01:33	1
1,3-Butadiene	**0.41**	**J**	0.88	0.14	ug/m3			03/21/14 01:33	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 01:33	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 01:33	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 01:33	1
2,2,4-Trimethylpentane	**0.81**	**J**	2.3	0.18	ug/m3			03/21/14 01:33	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 01:33	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 01:33	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 01:33	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/21/14 01:33	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 01:33	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 01:33	1
4-Methyl-2-pentanone (MIBK)	**0.19**	**J**	2.0	0.18	ug/m3			03/21/14 01:33	1
Acetone	**11**	**J**	12	3.3	ug/m3			03/21/14 01:33	1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.71**		0.64	0.18	ug/m3			03/21/14 01:33	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 01:33	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 01:33	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 01:33	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 01:33	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 01:33	1
Carbon tetrachloride	**0.50**	**J**	1.3	0.24	ug/m3			03/21/14 01:33	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 01:33	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 01:33	1
Chloroform	**0.35**	**J**	0.98	0.19	ug/m3			03/21/14 01:33	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/21/14 01:33	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 01:33	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 01:33	1
Cyclohexane	**0.18**	**J**	1.7	0.14	ug/m3			03/21/14 01:33	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 01:33	1
Dichlorodifluoromethane	**2.4**		0.99	0.34	ug/m3			03/21/14 01:33	1
Ethanol	**430**	**E**	3.8	3.8	ug/m3			03/21/14 01:33	1
Ethylbenzene	**9.6**		0.87	0.30	ug/m3			03/21/14 01:33	1
Heptane	**0.30**	**J**	2.0	0.19	ug/m3			03/21/14 01:33	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 01:33	1
Hexane	**0.39**	**J**	1.8	0.11	ug/m3			03/21/14 01:33	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 01:33	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 01:33	1
Isopropyl alcohol	**14**		4.9	0.23	ug/m3			03/21/14 01:33	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 01:33	1
Methylene Chloride	**4.3**		1.7	0.45	ug/m3			03/21/14 01:33	1
m-Xylene & p-Xylene	**52**		0.87	0.52	ug/m3			03/21/14 01:33	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 01:33	1
o-Xylene	**14**		0.87	0.26	ug/m3			03/21/14 01:33	1
Propene	**2.4**	**cn**	0.86	0.13	ug/m3			03/21/14 01:33	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 01:33	1
Tetrachloroethene	**0.32**	**J**	1.4	0.27	ug/m3			03/21/14 01:33	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 01:33	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 01:33	1
Toluene	**12**		0.75	0.45	ug/m3			03/21/14 01:33	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 01:33	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 01:33	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 01:33	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/21/14 01:33	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 01:33*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**280**		4.0	4.0	ppb v/v			03/21/14 20:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**520**		7.5	7.5	ug/m3			03/21/14 20:00	1

Client Sample ID: PCV-IA1-B9

Lab Sample ID: 140-1060-15

Date Collected: 03/14/14 16:19

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/21/14 20:00*	*1*

Client Sample ID: PCV-IA1FD-B9

Lab Sample ID: 140-1060-16

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 02:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.058**	**J**	0.20	0.031	ppb v/v			03/21/14 02:19	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 02:19	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 02:19	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 02:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 02:19	1
1,2,4-Trimethylbenzene	**0.092**	**J**	0.20	0.063	ppb v/v			03/21/14 02:19	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 02:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 02:19	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 02:19	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 02:19	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 02:19	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 02:19	1
1,3-Butadiene	**0.17**	**J**	0.40	0.064	ppb v/v			03/21/14 02:19	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 02:19	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 02:19	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 02:19	1
2,2,4-Trimethylpentane	**0.20**	**J**	0.50	0.039	ppb v/v			03/21/14 02:19	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 02:19	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 02:19	1
2-Methylbutane	**0.77**		0.50	0.031	ppb v/v			03/21/14 02:19	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 02:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 02:19	1
Acetone	**3.3**	**J**	5.0	1.4	ppb v/v			03/21/14 02:19	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/21/14 02:19	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 02:19	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 02:19	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 02:19	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 02:19	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 02:19	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/21/14 02:19	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 02:19	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 02:19	1
Chloroform	**0.064**	**J**	0.20	0.038	ppb v/v			03/21/14 02:19	1
Chloromethane	**0.48**	**J**	0.50	0.16	ppb v/v			03/21/14 02:19	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 02:19	1

Client Sample ID: PCV-IA1FD-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 02:19	1
Cyclohexane	**0.045**	**J**	0.50	0.040	ppb v/v			03/21/14 02:19	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 02:19	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/21/14 02:19	1
Ethanol	**200**	**E**	2.0	2.0	ppb v/v			03/21/14 02:19	1
Ethylbenzene	**2.2**		0.20	0.068	ppb v/v			03/21/14 02:19	1
Heptane	**0.063**	**J**	0.50	0.047	ppb v/v			03/21/14 02:19	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 02:19	1
Hexane	**0.094**	**J**	0.50	0.032	ppb v/v			03/21/14 02:19	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 02:19	1
Isopropyl alcohol	**5.4**		2.0	0.094	ppb v/v			03/21/14 02:19	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 02:19	1
Methylene Chloride	**0.99**		0.50	0.13	ppb v/v			03/21/14 02:19	1
m-Xylene & p-Xylene	**12**		0.20	0.12	ppb v/v			03/21/14 02:19	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 02:19	1
o-Xylene	**3.2**		0.20	0.061	ppb v/v			03/21/14 02:19	1
Propene	**1.3**	**cn**	0.50	0.077	ppb v/v			03/21/14 02:19	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 02:19	1
Tetrachloroethene	**0.051**	**J**	0.20	0.040	ppb v/v			03/21/14 02:19	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 02:19	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
Toluene	**4.5**		0.20	0.12	ppb v/v			03/21/14 02:19	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 02:19	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 02:19	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 02:19	1
Trichlorofluoromethane	**0.24**		0.20	0.024	ppb v/v			03/21/14 02:19	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 02:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 02:19	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.45**	**J**	1.5	0.24	ug/m3			03/21/14 02:19	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 02:19	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 02:19	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 02:19	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 02:19	1
1,2,4-Trimethylbenzene	**0.45**	**J**	0.98	0.31	ug/m3			03/21/14 02:19	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 02:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 02:19	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 02:19	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 02:19	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 02:19	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 02:19	1
1,3-Butadiene	**0.37**	**J**	0.88	0.14	ug/m3			03/21/14 02:19	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 02:19	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 02:19	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 02:19	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1FD-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	**0.93**	**J**	2.3	0.18	ug/m3			03/21/14 02:19	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 02:19	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 02:19	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 02:19	1
2-Methylbutane	**2.3**		1.5	0.091	ug/m3			03/21/14 02:19	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 02:19	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 02:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 02:19	1
Acetone	**7.9**	**J**	12	3.3	ug/m3			03/21/14 02:19	1
Benzene	**0.62**	**J**	0.64	0.18	ug/m3			03/21/14 02:19	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 02:19	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 02:19	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 02:19	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 02:19	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 02:19	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/21/14 02:19	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 02:19	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 02:19	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/21/14 02:19	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/21/14 02:19	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 02:19	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 02:19	1
Cyclohexane	**0.15**	**J**	1.7	0.14	ug/m3			03/21/14 02:19	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 02:19	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/21/14 02:19	1
Ethanol	**390**	**E**	3.8	3.8	ug/m3			03/21/14 02:19	1
Ethylbenzene	**9.7**		0.87	0.30	ug/m3			03/21/14 02:19	1
Heptane	**0.26**	**J**	2.0	0.19	ug/m3			03/21/14 02:19	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 02:19	1
Hexane	**0.33**	**J**	1.8	0.11	ug/m3			03/21/14 02:19	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 02:19	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 02:19	1
Isopropyl alcohol	**13**		4.9	0.23	ug/m3			03/21/14 02:19	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 02:19	1
Methylene Chloride	**3.4**		1.7	0.45	ug/m3			03/21/14 02:19	1
m-Xylene & p-Xylene	**50**		0.87	0.52	ug/m3			03/21/14 02:19	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 02:19	1
o-Xylene	**14**		0.87	0.26	ug/m3			03/21/14 02:19	1
Propene	**2.3**	**cn**	0.86	0.13	ug/m3			03/21/14 02:19	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 02:19	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/21/14 02:19	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 02:19	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 02:19	1
Toluene	**17**		0.75	0.45	ug/m3			03/21/14 02:19	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 02:19	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 02:19	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 02:19	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/21/14 02:19	1

Client Sample ID: PCV-IA1FD-B9

Lab Sample ID: 140-1060-16

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/21/14 02:19*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**220**		4.0	4.0	ppb v/v			03/24/14 17:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**410**		7.5	7.5	ug/m3			03/24/14 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/24/14 17:39*	*1*

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 03:04	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/21/14 03:04	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 03:04	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 03:04	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 03:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 03:04	1
1,2,4-Trimethylbenzene	**0.13**	**J**	0.20	0.063	ppb v/v			03/21/14 03:04	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 03:04	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 03:04	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 03:04	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 03:04	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 03:04	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 03:04	1
1,3-Butadiene	**0.13**	**J**	0.40	0.064	ppb v/v			03/21/14 03:04	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 03:04	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 03:04	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 03:04	1
2,2,4-Trimethylpentane	**0.087**	**J**	0.50	0.039	ppb v/v			03/21/14 03:04	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 03:04	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 03:04	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 03:04	1
2-Methylbutane	**0.79**		0.50	0.031	ppb v/v			03/21/14 03:04	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 03:04	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 03:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 03:04	1
Acetone	**2.4**	**J**	5.0	1.4	ppb v/v			03/21/14 03:04	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.21**		0.20	0.056	ppb v/v			03/21/14 03:04	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 03:04	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 03:04	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 03:04	1
Bromomethane	**0.049**	**J**	0.20	0.032	ppb v/v			03/21/14 03:04	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 03:04	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/21/14 03:04	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 03:04	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 03:04	1
Chloroform	**0.12**	**J**	0.20	0.038	ppb v/v			03/21/14 03:04	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/21/14 03:04	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 03:04	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 03:04	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 03:04	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 03:04	1
Dichlorodifluoromethane	**0.54**		0.20	0.068	ppb v/v			03/21/14 03:04	1
Ethanol	**45**		2.0	2.0	ppb v/v			03/21/14 03:04	1
Ethylbenzene	**17**		0.20	0.068	ppb v/v			03/21/14 03:04	1
Heptane	**0.048**	**J**	0.50	0.047	ppb v/v			03/21/14 03:04	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 03:04	1
Hexane	**0.086**	**J**	0.50	0.032	ppb v/v			03/21/14 03:04	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 03:04	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 03:04	1
Isopropyl alcohol	**1.5**	**J**	2.0	0.094	ppb v/v			03/21/14 03:04	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 03:04	1
Methylene Chloride	**0.57**		0.50	0.13	ppb v/v			03/21/14 03:04	1
m-Xylene & p-Xylene	**69**		0.20	0.12	ppb v/v			03/21/14 03:04	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 03:04	1
o-Xylene	**24**		0.20	0.061	ppb v/v			03/21/14 03:04	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/21/14 03:04	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 03:04	1
Tetrachloroethene	**0.052**	**J**	0.20	0.040	ppb v/v			03/21/14 03:04	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 03:04	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 03:04	1
Toluene	**4.0**		0.20	0.12	ppb v/v			03/21/14 03:04	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 03:04	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 03:04	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 03:04	1
Trichlorofluoromethane	**0.29**		0.20	0.024	ppb v/v			03/21/14 03:04	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 03:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 03:04	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/21/14 03:04	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 03:04	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 03:04	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 03:04	1

Client Sample ID: PCV-IA2-B9
Lab Sample ID: 140-1060-17
Date Collected: 03/14/14 16:17
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 03:04	1
1,2,4-Trimethylbenzene	**0.62**	**J**	0.98	0.31	ug/m3			03/21/14 03:04	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 03:04	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 03:04	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 03:04	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 03:04	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 03:04	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 03:04	1
1,3-Butadiene	**0.29**	**J**	0.88	0.14	ug/m3			03/21/14 03:04	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 03:04	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 03:04	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 03:04	1
2,2,4-Trimethylpentane	**0.41**	**J**	2.3	0.18	ug/m3			03/21/14 03:04	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 03:04	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 03:04	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 03:04	1
2-Methylbutane	**2.3**		1.5	0.091	ug/m3			03/21/14 03:04	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 03:04	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 03:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 03:04	1
Acetone	**5.8**	**J**	12	3.3	ug/m3			03/21/14 03:04	1
Benzene	**0.68**		0.64	0.18	ug/m3			03/21/14 03:04	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 03:04	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 03:04	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 03:04	1
Bromomethane	**0.19**	**J**	0.78	0.12	ug/m3			03/21/14 03:04	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 03:04	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/21/14 03:04	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 03:04	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 03:04	1
Chloroform	**0.58**	**J**	0.98	0.19	ug/m3			03/21/14 03:04	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/21/14 03:04	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 03:04	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 03:04	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 03:04	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 03:04	1
Dichlorodifluoromethane	**2.7**		0.99	0.34	ug/m3			03/21/14 03:04	1
Ethanol	**86**		3.8	3.8	ug/m3			03/21/14 03:04	1
Ethylbenzene	**73**		0.87	0.30	ug/m3			03/21/14 03:04	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/21/14 03:04	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 03:04	1
Hexane	**0.30**	**J**	1.8	0.11	ug/m3			03/21/14 03:04	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 03:04	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 03:04	1
Isopropyl alcohol	**3.6**	**J**	4.9	0.23	ug/m3			03/21/14 03:04	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 03:04	1
Methylene Chloride	**2.0**		1.7	0.45	ug/m3			03/21/14 03:04	1
m-Xylene & p-Xylene	**300**		0.87	0.52	ug/m3			03/21/14 03:04	1

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 03:04	1
o-Xylene	**110**		0.87	0.26	ug/m3			03/21/14 03:04	1
Propene	**1.9**	**cn**	0.86	0.13	ug/m3			03/21/14 03:04	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 03:04	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/21/14 03:04	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 03:04	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 03:04	1
Toluene	**15**		0.75	0.45	ug/m3			03/21/14 03:04	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 03:04	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 03:04	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 03:04	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/21/14 03:04	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/21/14 03:04*	*1*

Client Sample ID: PCV-IA1-B8

Lab Sample ID: 140-1060-18

Date Collected: 03/14/14 16:45

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**J**	0.20	0.031	ppb v/v			03/21/14 04:33	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 04:33	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 04:33	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 04:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 04:33	1
1,2,4-Trimethylbenzene	**0.075**	**J**	0.20	0.063	ppb v/v			03/21/14 04:33	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 04:33	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 04:33	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 04:33	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 04:33	1
1,3-Butadiene	**0.069**	**J**	0.40	0.064	ppb v/v			03/21/14 04:33	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 04:33	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 04:33	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 04:33	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 04:33	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 04:33	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 04:33	1
2-Methylbutane	**0.68**		0.50	0.031	ppb v/v			03/21/14 04:33	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B8
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 04:33	1
4-Methyl-2-pentanone (MIBK)	**0.11**	**J**	0.50	0.045	ppb v/v			03/21/14 04:33	1
Acetone	**2.8**	**J**	5.0	1.4	ppb v/v			03/21/14 04:33	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/21/14 04:33	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 04:33	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 04:33	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 04:33	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 04:33	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 04:33	1
Carbon tetrachloride	**0.077**	**J**	0.20	0.038	ppb v/v			03/21/14 04:33	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 04:33	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 04:33	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 04:33	1
Chloromethane	**0.64**		0.50	0.16	ppb v/v			03/21/14 04:33	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 04:33	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 04:33	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 04:33	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 04:33	1
Dichlorodifluoromethane	**0.52**		0.20	0.068	ppb v/v			03/21/14 04:33	1
Ethanol	**17**		2.0	2.0	ppb v/v			03/21/14 04:33	1
Ethylbenzene	**26**		0.20	0.068	ppb v/v			03/21/14 04:33	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 04:33	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 04:33	1
Hexane	**0.10**	**J**	0.50	0.032	ppb v/v			03/21/14 04:33	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 04:33	1
Isopropyl alcohol	**0.76**	**J**	2.0	0.094	ppb v/v			03/21/14 04:33	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 04:33	1
Methylene Chloride	**0.53**		0.50	0.13	ppb v/v			03/21/14 04:33	1
m-Xylene & p-Xylene	**86**	**E**	0.20	0.12	ppb v/v			03/21/14 04:33	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 04:33	1
o-Xylene	**35**		0.20	0.061	ppb v/v			03/21/14 04:33	1
Propene	**0.79**	**cn**	0.50	0.077	ppb v/v			03/21/14 04:33	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 04:33	1
Tetrachloroethene	**0.045**	**J**	0.20	0.040	ppb v/v			03/21/14 04:33	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 04:33	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
Toluene	**0.65**		0.20	0.12	ppb v/v			03/21/14 04:33	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 04:33	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 04:33	1
Trichloroethene	**0.042**	**J**	0.20	0.036	ppb v/v			03/21/14 04:33	1
Trichlorofluoromethane	**0.27**		0.20	0.024	ppb v/v			03/21/14 04:33	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 04:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.59**	**J**	1.5	0.24	ug/m3			03/21/14 04:33	1

Client Sample ID: PCV-IA1-B8
Lab Sample ID: 140-1060-18
Date Collected: 03/14/14 16:45
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 04:33	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 04:33	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 04:33	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 04:33	1
1,2,4-Trimethylbenzene	**0.37**	**J**	0.98	0.31	ug/m3			03/21/14 04:33	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 04:33	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 04:33	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 04:33	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 04:33	1
1,3-Butadiene	**0.15**	**J**	0.88	0.14	ug/m3			03/21/14 04:33	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 04:33	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 04:33	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 04:33	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 04:33	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 04:33	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 04:33	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 04:33	1
2-Methylbutane	**2.0**		1.5	0.091	ug/m3			03/21/14 04:33	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 04:33	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 04:33	1
4-Methyl-2-pentanone (MIBK)	**0.44**	**J**	2.0	0.18	ug/m3			03/21/14 04:33	1
Acetone	**6.6**	**J**	12	3.3	ug/m3			03/21/14 04:33	1
Benzene	**0.75**		0.64	0.18	ug/m3			03/21/14 04:33	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 04:33	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 04:33	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 04:33	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 04:33	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 04:33	1
Carbon tetrachloride	**0.49**	**J**	1.3	0.24	ug/m3			03/21/14 04:33	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 04:33	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 04:33	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 04:33	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/21/14 04:33	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 04:33	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 04:33	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 04:33	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 04:33	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/21/14 04:33	1
Ethanol	**32**		3.8	3.8	ug/m3			03/21/14 04:33	1
Ethylbenzene	**110**		0.87	0.30	ug/m3			03/21/14 04:33	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 04:33	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 04:33	1
Hexane	**0.36**	**J**	1.8	0.11	ug/m3			03/21/14 04:33	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 04:33	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 04:33	1
Isopropyl alcohol	**1.9**	**J**	4.9	0.23	ug/m3			03/21/14 04:33	1

Client Sample ID: PCV-IA1-B8

Lab Sample ID: 140-1060-18

Date Collected: 03/14/14 16:45

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 04:33	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/21/14 04:33	1
m-Xylene & p-Xylene	**370**	**E**	0.87	0.52	ug/m3			03/21/14 04:33	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 04:33	1
o-Xylene	**150**		0.87	0.26	ug/m3			03/21/14 04:33	1
Propene	**1.4**	**cn**	0.86	0.13	ug/m3			03/21/14 04:33	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 04:33	1
Tetrachloroethene	**0.31**	**J**	1.4	0.27	ug/m3			03/21/14 04:33	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 04:33	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 04:33	1
Toluene	**2.4**		0.75	0.45	ug/m3			03/21/14 04:33	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 04:33	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 04:33	1
Trichloroethene	**0.22**	**J**	1.1	0.19	ug/m3			03/21/14 04:33	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/21/14 04:33	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/21/14 04:33*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**100**		0.40	0.24	ppb v/v			03/24/14 18:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**450**		1.7	1.0	ug/m3			03/24/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/24/14 18:24*	*1*

Client Sample ID: PCV-IA1FD-B8

Lab Sample ID: 140-1060-19

Date Collected: 03/14/14 13:15

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 05:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/21/14 05:18	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 05:18	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 05:18	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 05:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 05:18	1
1,2,4-Trimethylbenzene	**0.069**	**J**	0.20	0.063	ppb v/v			03/21/14 05:18	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 05:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 05:18	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 05:18	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 05:18	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 05:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 05:18	1
1,3-Butadiene	**0.091**	**J**	0.40	0.064	ppb v/v			03/21/14 05:18	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 05:18	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 05:18	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 05:18	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 05:18	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
2-Butanone (MEK)	**0.23**	**J**	1.0	0.20	ppb v/v			03/21/14 05:18	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 05:18	1
2-Methylbutane	**0.97**		0.50	0.031	ppb v/v			03/21/14 05:18	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
4-Ethyltoluene	**0.070**	**J**	0.40	0.066	ppb v/v			03/21/14 05:18	1
4-Methyl-2-pentanone (MIBK)	**0.76**		0.50	0.045	ppb v/v			03/21/14 05:18	1
Acetone	**3.8**	**J**	5.0	1.4	ppb v/v			03/21/14 05:18	1
Benzene	**0.25**		0.20	0.056	ppb v/v			03/21/14 05:18	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 05:18	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 05:18	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 05:18	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 05:18	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 05:18	1
Carbon tetrachloride	**0.074**	**J**	0.20	0.038	ppb v/v			03/21/14 05:18	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 05:18	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 05:18	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 05:18	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/21/14 05:18	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 05:18	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 05:18	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 05:18	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 05:18	1
Dichlorodifluoromethane	**0.51**		0.20	0.068	ppb v/v			03/21/14 05:18	1
Ethanol	**21**		2.0	2.0	ppb v/v			03/21/14 05:18	1
Ethylbenzene	**31**		0.20	0.068	ppb v/v			03/21/14 05:18	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 05:18	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 05:18	1
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/21/14 05:18	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 05:18	1
Isopropyl alcohol	**0.89**	**J**	2.0	0.094	ppb v/v			03/21/14 05:18	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 05:18	1
Methylene Chloride	**0.78**		0.50	0.13	ppb v/v			03/21/14 05:18	1
m-Xylene & p-Xylene	**88**	**E**	0.20	0.12	ppb v/v			03/21/14 05:18	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 05:18	1
o-Xylene	**41**		0.20	0.061	ppb v/v			03/21/14 05:18	1
Propene	**0.96**	**cn**	0.50	0.077	ppb v/v			03/21/14 05:18	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 05:18	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 05:18	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 05:18	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
Toluene	**0.78**		0.20	0.12	ppb v/v			03/21/14 05:18	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 05:18	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 05:18	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 05:18	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/21/14 05:18	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 05:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 05:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**	**J**	1.5	0.24	ug/m3			03/21/14 05:18	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 05:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 05:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 05:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 05:18	1
1,2,4-Trimethylbenzene	**0.34**	**J**	0.98	0.31	ug/m3			03/21/14 05:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 05:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 05:18	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 05:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 05:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 05:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 05:18	1
1,3-Butadiene	**0.20**	**J**	0.88	0.14	ug/m3			03/21/14 05:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 05:18	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 05:18	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 05:18	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 05:18	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 05:18	1
2-Butanone (MEK)	**0.68**	**J**	2.9	0.59	ug/m3			03/21/14 05:18	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 05:18	1
2-Methylbutane	**2.9**		1.5	0.091	ug/m3			03/21/14 05:18	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 05:18	1
4-Ethyltoluene	**0.35**	**J**	2.0	0.32	ug/m3			03/21/14 05:18	1
4-Methyl-2-pentanone (MIBK)	**3.1**		2.0	0.18	ug/m3			03/21/14 05:18	1
Acetone	**9.1**	**J**	12	3.3	ug/m3			03/21/14 05:18	1
Benzene	**0.79**		0.64	0.18	ug/m3			03/21/14 05:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 05:18	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 05:18	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 05:18	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 05:18	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 05:18	1
Carbon tetrachloride	**0.46**	**J**	1.3	0.24	ug/m3			03/21/14 05:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 05:18	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 05:18	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 05:18	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/21/14 05:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 05:18	1

Client Sample ID: PCV-IA1FD-B8

Lab Sample ID: 140-1060-19

Date Collected: 03/14/14 13:15

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 05:18	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 05:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 05:18	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/21/14 05:18	1
Ethanol	**40**		3.8	3.8	ug/m3			03/21/14 05:18	1
Ethylbenzene	**130**		0.87	0.30	ug/m3			03/21/14 05:18	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 05:18	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 05:18	1
Hexane	**0.55**	**J**	1.8	0.11	ug/m3			03/21/14 05:18	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 05:18	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 05:18	1
Isopropyl alcohol	**2.2**	**J**	4.9	0.23	ug/m3			03/21/14 05:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 05:18	1
Methylene Chloride	**2.7**		1.7	0.45	ug/m3			03/21/14 05:18	1
m-Xylene & p-Xylene	**380**	**E**	0.87	0.52	ug/m3			03/21/14 05:18	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 05:18	1
o-Xylene	**180**		0.87	0.26	ug/m3			03/21/14 05:18	1
Propene	**1.6**	**cn**	0.86	0.13	ug/m3			03/21/14 05:18	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 05:18	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 05:18	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 05:18	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 05:18	1
Toluene	**2.9**		0.75	0.45	ug/m3			03/21/14 05:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 05:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 05:18	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 05:18	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/21/14 05:18	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/21/14 05:18*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**130**		0.40	0.24	ppb v/v			03/24/14 19:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**580**		1.7	1.0	ug/m3			03/24/14 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/24/14 19:08*	*1*

Client Sample ID: PCV-IA2-B8

Lab Sample ID: 140-1060-20

Date Collected: 03/14/14 16:03

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 06:03	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 06:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.076**	**J**	0.20	0.031	ppb v/v			03/21/14 06:03	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 06:03	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 06:03	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 06:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 06:03	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 06:03	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 06:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 06:03	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 06:03	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 06:03	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 06:03	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 06:03	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 06:03	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 06:03	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 06:03	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 06:03	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 06:03	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 06:03	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 06:03	1
2-Methylbutane	**0.85**		0.50	0.031	ppb v/v			03/21/14 06:03	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 06:03	1
4-Methyl-2-pentanone (MIBK)	**18**		0.50	0.045	ppb v/v			03/21/14 06:03	1
Acetone	**5.7**		5.0	1.4	ppb v/v			03/21/14 06:03	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/21/14 06:03	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 06:03	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 06:03	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 06:03	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 06:03	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 06:03	1
Carbon tetrachloride	**0.081**	**J**	0.20	0.038	ppb v/v			03/21/14 06:03	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 06:03	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 06:03	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 06:03	1
Chloromethane	**0.39**	**J**	0.50	0.16	ppb v/v			03/21/14 06:03	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 06:03	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 06:03	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 06:03	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 06:03	1
Dichlorodifluoromethane	**0.51**		0.20	0.068	ppb v/v			03/21/14 06:03	1
Ethanol	**17**		2.0	2.0	ppb v/v			03/21/14 06:03	1
Ethylbenzene	**0.52**		0.20	0.068	ppb v/v			03/21/14 06:03	1
Heptane	**0.048**	**J**	0.50	0.047	ppb v/v			03/21/14 06:03	1
Hexachlorobutadiene	ND	*	1.0	0.078	ppb v/v			03/21/14 06:03	1
Hexane	**0.095**	**J**	0.50	0.032	ppb v/v			03/21/14 06:03	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		0.40	0.40	ppb v/v			03/21/14 06:03	1
Isopropyl alcohol	**0.81**	**J**	2.0	0.094	ppb v/v			03/21/14 06:03	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 06:03	1
Methylene Chloride	**0.46**	**J**	0.50	0.13	ppb v/v			03/21/14 06:03	1
m-Xylene & p-Xylene	**2.8**		0.20	0.12	ppb v/v			03/21/14 06:03	1
Naphthalene	ND	*	0.50	0.090	ppb v/v			03/21/14 06:03	1
o-Xylene	**0.77**		0.20	0.061	ppb v/v			03/21/14 06:03	1
Propene	**0.89**	**cn**	0.50	0.077	ppb v/v			03/21/14 06:03	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 06:03	1
Tetrachloroethene	**0.045**	**J**	0.20	0.040	ppb v/v			03/21/14 06:03	1
Tetrahydrofuran	ND	*	1.0	0.063	ppb v/v			03/21/14 06:03	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1
Toluene	**0.22**		0.20	0.12	ppb v/v			03/21/14 06:03	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 06:03	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 06:03	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 06:03	1
Trichlorofluoromethane	**0.28**		0.20	0.024	ppb v/v			03/21/14 06:03	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 06:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 06:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.58**	**J**	1.5	0.24	ug/m3			03/21/14 06:03	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 06:03	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 06:03	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 06:03	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 06:03	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 06:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 06:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 06:03	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 06:03	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 06:03	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 06:03	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 06:03	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 06:03	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 06:03	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 06:03	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 06:03	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 06:03	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 06:03	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 06:03	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 06:03	1
2-Methylbutane	**2.5**		1.5	0.091	ug/m3			03/21/14 06:03	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 06:03	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 06:03	1
4-Methyl-2-pentanone (MIBK)	**73**		2.0	0.18	ug/m3			03/21/14 06:03	1
Acetone	**14**		12	3.3	ug/m3			03/21/14 06:03	1
Benzene	**0.60**	**J**	0.64	0.18	ug/m3			03/21/14 06:03	1

Client Sample ID: PCV-IA2-B8
Lab Sample ID: 140-1060-20
Date Collected: 03/14/14 16:03
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 06:03	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 06:03	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 06:03	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 06:03	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 06:03	1
Carbon tetrachloride	**0.51**	**J**	1.3	0.24	ug/m3			03/21/14 06:03	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 06:03	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 06:03	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 06:03	1
Chloromethane	**0.81**	**J**	1.0	0.33	ug/m3			03/21/14 06:03	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 06:03	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 06:03	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 06:03	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 06:03	1
Dichlorodifluoromethane	**2.5**		0.99	0.34	ug/m3			03/21/14 06:03	1
Ethanol	**33**		3.8	3.8	ug/m3			03/21/14 06:03	1
Ethylbenzene	**2.3**		0.87	0.30	ug/m3			03/21/14 06:03	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/21/14 06:03	1
Hexachlorobutadiene	ND	*	11	0.83	ug/m3			03/21/14 06:03	1
Hexane	**0.33**	**J**	1.8	0.11	ug/m3			03/21/14 06:03	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 06:03	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 06:03	1
Isopropyl alcohol	**2.0**	**J**	4.9	0.23	ug/m3			03/21/14 06:03	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 06:03	1
Methylene Chloride	**1.6**	**J**	1.7	0.45	ug/m3			03/21/14 06:03	1
m-Xylene & p-Xylene	**12**		0.87	0.52	ug/m3			03/21/14 06:03	1
Naphthalene	ND	*	2.6	0.47	ug/m3			03/21/14 06:03	1
o-Xylene	**3.3**		0.87	0.26	ug/m3			03/21/14 06:03	1
Propene	**1.5**	**cn**	0.86	0.13	ug/m3			03/21/14 06:03	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 06:03	1
Tetrachloroethene	**0.31**	**J**	1.4	0.27	ug/m3			03/21/14 06:03	1
Tetrahydrofuran	ND	*	2.9	0.19	ug/m3			03/21/14 06:03	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 06:03	1
Toluene	**0.83**		0.75	0.45	ug/m3			03/21/14 06:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 06:03	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 06:03	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 06:03	1
Trichlorofluoromethane	**1.6**		1.1	0.13	ug/m3			03/21/14 06:03	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/21/14 06:03*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 16:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/21/14 16:26	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 16:26	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 16:26	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 16:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 16:26	1
1,2,4-Trimethylbenzene	**0.37**		0.20	0.063	ppb v/v			03/21/14 16:26	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 16:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 16:26	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 16:26	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 16:26	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 16:26	1
1,3,5-Trimethylbenzene	**0.099**	**J**	0.20	0.065	ppb v/v			03/21/14 16:26	1
1,3-Butadiene	**0.14**	**J**	0.40	0.064	ppb v/v			03/21/14 16:26	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 16:26	1
1,4-Dichlorobenzene	**0.072**	**J**	0.20	0.064	ppb v/v			03/21/14 16:26	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 16:26	1
2,2,4-Trimethylpentane	**0.091**	**J**	0.50	0.039	ppb v/v			03/21/14 16:26	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
2-Butanone (MEK)	**0.25**	**J**	1.0	0.20	ppb v/v			03/21/14 16:26	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 16:26	1
2-Methylbutane	**0.82**		0.50	0.031	ppb v/v			03/21/14 16:26	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
4-Ethyltoluene	**0.19**	**J**	0.40	0.066	ppb v/v			03/21/14 16:26	1
4-Methyl-2-pentanone (MIBK)	**0.13**	**J**	0.50	0.045	ppb v/v			03/21/14 16:26	1
Acetone	**3.2**	**J ***	5.0	1.4	ppb v/v			03/21/14 16:26	1
Benzene	**0.32**		0.20	0.056	ppb v/v			03/21/14 16:26	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 16:26	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 16:26	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 16:26	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 16:26	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 16:26	1
Carbon tetrachloride	**0.053**	**J**	0.20	0.038	ppb v/v			03/21/14 16:26	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 16:26	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 16:26	1
Chloroform	**0.063**	**J**	0.20	0.038	ppb v/v			03/21/14 16:26	1
Chloromethane	**0.56**		0.50	0.16	ppb v/v			03/21/14 16:26	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 16:26	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 16:26	1
Cyclohexane	**0.059**	**J**	0.50	0.040	ppb v/v			03/21/14 16:26	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 16:26	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/21/14 16:26	1
Ethanol	**130**		2.0	2.0	ppb v/v			03/21/14 16:26	1
Ethylbenzene	**1.1**		0.20	0.068	ppb v/v			03/21/14 16:26	1
Heptane	**0.12**	**J**	0.50	0.047	ppb v/v			03/21/14 16:26	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 16:26	1
Hexane	**0.23**	**J**	0.50	0.032	ppb v/v			03/21/14 16:26	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 16:26	1
Isopropyl alcohol	**2.5**		2.0	0.094	ppb v/v			03/21/14 16:26	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 16:26	1
Methylene Chloride	**0.51**		0.50	0.13	ppb v/v			03/21/14 16:26	1
m-Xylene & p-Xylene	**5.1**		0.20	0.12	ppb v/v			03/21/14 16:26	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 16:26	1
o-Xylene	**2.0**		0.20	0.061	ppb v/v			03/21/14 16:26	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/21/14 16:26	1
Styrene	**0.068**	**J**	0.20	0.058	ppb v/v			03/21/14 16:26	1
Tetrachloroethene	**0.048**	**J**	0.20	0.040	ppb v/v			03/21/14 16:26	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 16:26	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
Toluene	**0.63**		0.20	0.12	ppb v/v			03/21/14 16:26	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 16:26	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 16:26	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 16:26	1
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/21/14 16:26	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 16:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 16:26	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/21/14 16:26	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 16:26	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 16:26	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 16:26	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 16:26	1
1,2,4-Trimethylbenzene	**1.8**		0.98	0.31	ug/m3			03/21/14 16:26	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 16:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 16:26	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 16:26	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 16:26	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 16:26	1
1,3,5-Trimethylbenzene	**0.48**	**J**	0.98	0.32	ug/m3			03/21/14 16:26	1
1,3-Butadiene	**0.31**	**J**	0.88	0.14	ug/m3			03/21/14 16:26	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 16:26	1
1,4-Dichlorobenzene	**0.43**	**J**	1.2	0.38	ug/m3			03/21/14 16:26	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 16:26	1
2,2,4-Trimethylpentane	**0.42**	**J**	2.3	0.18	ug/m3			03/21/14 16:26	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 16:26	1
2-Butanone (MEK)	**0.75**	**J**	2.9	0.59	ug/m3			03/21/14 16:26	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 16:26	1
2-Methylbutane	**2.4**		1.5	0.091	ug/m3			03/21/14 16:26	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 16:26	1
4-Ethyltoluene	**0.91**	**J**	2.0	0.32	ug/m3			03/21/14 16:26	1
4-Methyl-2-pentanone (MIBK)	**0.52**	**J**	2.0	0.18	ug/m3			03/21/14 16:26	1
Acetone	**7.5**	**J ***	12	3.3	ug/m3			03/21/14 16:26	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		0.64	0.18	ug/m3			03/21/14 16:26	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 16:26	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 16:26	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 16:26	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 16:26	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 16:26	1
Carbon tetrachloride	**0.34**	**J**	1.3	0.24	ug/m3			03/21/14 16:26	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 16:26	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 16:26	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/21/14 16:26	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/21/14 16:26	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 16:26	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 16:26	1
Cyclohexane	**0.20**	**J**	1.7	0.14	ug/m3			03/21/14 16:26	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 16:26	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/21/14 16:26	1
Ethanol	**240**		3.8	3.8	ug/m3			03/21/14 16:26	1
Ethylbenzene	**5.0**		0.87	0.30	ug/m3			03/21/14 16:26	1
Heptane	**0.50**	**J**	2.0	0.19	ug/m3			03/21/14 16:26	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 16:26	1
Hexane	**0.80**	**J**	1.8	0.11	ug/m3			03/21/14 16:26	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 16:26	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 16:26	1
Isopropyl alcohol	**6.0**		4.9	0.23	ug/m3			03/21/14 16:26	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 16:26	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/21/14 16:26	1
m-Xylene & p-Xylene	**22**		0.87	0.52	ug/m3			03/21/14 16:26	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 16:26	1
o-Xylene	**8.7**		0.87	0.26	ug/m3			03/21/14 16:26	1
Propene	**2.1**	**cn**	0.86	0.13	ug/m3			03/21/14 16:26	1
Styrene	**0.29**	**J**	0.85	0.25	ug/m3			03/21/14 16:26	1
Tetrachloroethene	**0.33**	**J**	1.4	0.27	ug/m3			03/21/14 16:26	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 16:26	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 16:26	1
Toluene	**2.4**		0.75	0.45	ug/m3			03/21/14 16:26	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 16:26	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 16:26	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 16:26	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/21/14 16:26	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 16:26*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B20
Date Collected: 03/14/14 16:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/21/14 17:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 17:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 17:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 17:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 17:20	1
1,2,4-Trimethylbenzene	**0.75**		0.20	0.063	ppb v/v			03/21/14 17:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 17:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 17:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 17:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 17:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 17:20	1
1,3,5-Trimethylbenzene	**0.20**		0.20	0.065	ppb v/v			03/21/14 17:20	1
1,3-Butadiene	**0.12**	**J**	0.40	0.064	ppb v/v			03/21/14 17:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 17:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 17:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 17:20	1
2,2,4-Trimethylpentane	**0.094**	**J**	0.50	0.039	ppb v/v			03/21/14 17:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
2-Butanone (MEK)	**0.49**	**J**	1.0	0.20	ppb v/v			03/21/14 17:20	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 17:20	1
2-Methylbutane	**0.93**		0.50	0.031	ppb v/v			03/21/14 17:20	1
2-Methylpentane	**0.20**		0.20	0.20	ppb v/v			03/21/14 17:20	1
4-Ethyltoluene	**0.32**	**J**	0.40	0.066	ppb v/v			03/21/14 17:20	1
4-Methyl-2-pentanone (MIBK)	**0.86**		0.50	0.045	ppb v/v			03/21/14 17:20	1
Acetone	**4.8**	**J ***	5.0	1.4	ppb v/v			03/21/14 17:20	1
Benzene	**0.34**		0.20	0.056	ppb v/v			03/21/14 17:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 17:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 17:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 17:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 17:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 17:20	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/21/14 17:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 17:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 17:20	1
Chloroform	**0.093**	**J**	0.20	0.038	ppb v/v			03/21/14 17:20	1
Chloromethane	**0.52**		0.50	0.16	ppb v/v			03/21/14 17:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 17:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 17:20	1
Cyclohexane	**0.078**	**J**	0.50	0.040	ppb v/v			03/21/14 17:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 17:20	1
Dichlorodifluoromethane	**0.42**		0.20	0.068	ppb v/v			03/21/14 17:20	1
Ethanol	**280**	**E**	2.0	2.0	ppb v/v			03/21/14 17:20	1
Ethylbenzene	**1.9**		0.20	0.068	ppb v/v			03/21/14 17:20	1
Heptane	**0.15**	**J**	0.50	0.047	ppb v/v			03/21/14 17:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 17:20	1
Hexane	**0.27**	**J**	0.50	0.032	ppb v/v			03/21/14 17:20	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B20
Lab Sample ID: 140-1060-22
Date Collected: 03/14/14 16:35
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 17:20	1
Isopropyl alcohol	**4.7**		2.0	0.094	ppb v/v			03/21/14 17:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 17:20	1
Methylene Chloride	**0.49**	**J**	0.50	0.13	ppb v/v			03/21/14 17:20	1
m-Xylene & p-Xylene	**8.0**		0.20	0.12	ppb v/v			03/21/14 17:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 17:20	1
o-Xylene	**3.1**		0.20	0.061	ppb v/v			03/21/14 17:20	1
Propene	**1.2**	**cn**	0.50	0.077	ppb v/v			03/21/14 17:20	1
Styrene	**0.075**	**J**	0.20	0.058	ppb v/v			03/21/14 17:20	1
Tetrachloroethene	**0.046**	**J**	0.20	0.040	ppb v/v			03/21/14 17:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 17:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
Toluene	**0.77**		0.20	0.12	ppb v/v			03/21/14 17:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 17:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 17:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 17:20	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/21/14 17:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 17:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.52**	**J**	1.5	0.24	ug/m3			03/21/14 17:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 17:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 17:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 17:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 17:20	1
1,2,4-Trimethylbenzene	**3.7**		0.98	0.31	ug/m3			03/21/14 17:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 17:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 17:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 17:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 17:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 17:20	1
1,3,5-Trimethylbenzene	**0.98**		0.98	0.32	ug/m3			03/21/14 17:20	1
1,3-Butadiene	**0.28**	**J**	0.88	0.14	ug/m3			03/21/14 17:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 17:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 17:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 17:20	1
2,2,4-Trimethylpentane	**0.44**	**J**	2.3	0.18	ug/m3			03/21/14 17:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 17:20	1
2-Butanone (MEK)	**1.5**	**J**	2.9	0.59	ug/m3			03/21/14 17:20	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 17:20	1
2-Methylbutane	**2.7**		1.5	0.091	ug/m3			03/21/14 17:20	1
2-Methylpentane	**0.71**		0.70	0.70	ug/m3			03/21/14 17:20	1
4-Ethyltoluene	**1.6**	**J**	2.0	0.32	ug/m3			03/21/14 17:20	1
4-Methyl-2-pentanone (MIBK)	**3.5**		2.0	0.18	ug/m3			03/21/14 17:20	1
Acetone	**11**	**J ***	12	3.3	ug/m3			03/21/14 17:20	1

Client Sample ID: PCV-IA2-B20
Lab Sample ID: 140-1060-22
Date Collected: 03/14/14 16:35
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		0.64	0.18	ug/m3			03/21/14 17:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 17:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 17:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 17:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 17:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 17:20	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/21/14 17:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 17:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 17:20	1
Chloroform	**0.46**	**J**	0.98	0.19	ug/m3			03/21/14 17:20	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/21/14 17:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 17:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 17:20	1
Cyclohexane	**0.27**	**J**	1.7	0.14	ug/m3			03/21/14 17:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 17:20	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/21/14 17:20	1
Ethanol	**530**	**E**	3.8	3.8	ug/m3			03/21/14 17:20	1
Ethylbenzene	**8.0**		0.87	0.30	ug/m3			03/21/14 17:20	1
Heptane	**0.63**	**J**	2.0	0.19	ug/m3			03/21/14 17:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 17:20	1
Hexane	**0.96**	**J**	1.8	0.11	ug/m3			03/21/14 17:20	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 17:20	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 17:20	1
Isopropyl alcohol	**12**		4.9	0.23	ug/m3			03/21/14 17:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 17:20	1
Methylene Chloride	**1.7**	**J**	1.7	0.45	ug/m3			03/21/14 17:20	1
m-Xylene & p-Xylene	**35**		0.87	0.52	ug/m3			03/21/14 17:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 17:20	1
o-Xylene	**13**		0.87	0.26	ug/m3			03/21/14 17:20	1
Propene	**2.1**	**cn**	0.86	0.13	ug/m3			03/21/14 17:20	1
Styrene	**0.32**	**J**	0.85	0.25	ug/m3			03/21/14 17:20	1
Tetrachloroethene	**0.32**	**J**	1.4	0.27	ug/m3			03/21/14 17:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 17:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 17:20	1
Toluene	**2.9**		0.75	0.45	ug/m3			03/21/14 17:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 17:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 17:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 17:20	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/21/14 17:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 17:20*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**240**		5.0	5.0	ppb v/v			03/24/14 19:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**450**		9.4	9.4	ug/m3			03/24/14 19:53	1

Client Sample ID: PCV-IA2-B20

Lab Sample ID: 140-1060-22

Date Collected: 03/14/14 16:35

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/24/14 19:53*	*1*

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Date Collected: 03/14/14 17:01

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 18:13	1.66
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 18:13	1.66
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.061**	**J**	0.20	0.031	ppb v/v			03/21/14 18:13	1.66
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 18:13	1.66
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 18:13	1.66
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 18:13	1.66
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 18:13	1.66
1,2,4-Trimethylbenzene	**0.20**		0.20	0.063	ppb v/v			03/21/14 18:13	1.66
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 18:13	1.66
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 18:13	1.66
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 18:13	1.66
1,3-Butadiene	**0.11**	**J**	0.40	0.064	ppb v/v			03/21/14 18:13	1.66
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 18:13	1.66
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 18:13	1.66
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 18:13	1.66
2,2,4-Trimethylpentane	**0.10**	**J**	0.50	0.039	ppb v/v			03/21/14 18:13	1.66
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
2-Butanone (MEK)	**0.26**	**J**	1.0	0.20	ppb v/v			03/21/14 18:13	1.66
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 18:13	1.66
2-Methylbutane	**0.72**		0.50	0.031	ppb v/v			03/21/14 18:13	1.66
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
4-Ethyltoluene	**0.10**	**J**	0.40	0.066	ppb v/v			03/21/14 18:13	1.66
4-Methyl-2-pentanone (MIBK)	**6.1**		0.50	0.045	ppb v/v			03/21/14 18:13	1.66
Acetone	**2.2**	**J ***	5.0	1.4	ppb v/v			03/21/14 18:13	1.66
Benzene	**0.33**		0.20	0.056	ppb v/v			03/21/14 18:13	1.66
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 18:13	1.66
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 18:13	1.66
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 18:13	1.66
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 18:13	1.66
Carbon disulfide	**0.038**	**J**	0.50	0.031	ppb v/v			03/21/14 18:13	1.66
Carbon tetrachloride	**0.063**	**J**	0.20	0.038	ppb v/v			03/21/14 18:13	1.66
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 18:13	1.66
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 18:13	1.66
Chloroform	**0.14**	**J**	0.20	0.038	ppb v/v			03/21/14 18:13	1.66
Chloromethane	**0.54**		0.50	0.16	ppb v/v			03/21/14 18:13	1.66
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 18:13	1.66

Client Sample ID: PCV-IA3-B20
Lab Sample ID: 140-1060-23
Date Collected: 03/14/14 17:01
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 18:13	1.66
Cyclohexane	**0.048**	**J**	0.50	0.040	ppb v/v			03/21/14 18:13	1.66
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 18:13	1.66
Dichlorodifluoromethane	**0.39**		0.20	0.068	ppb v/v			03/21/14 18:13	1.66
Ethanol	**36**		2.0	2.0	ppb v/v			03/21/14 18:13	1.66
Ethylbenzene	**0.58**		0.20	0.068	ppb v/v			03/21/14 18:13	1.66
Heptane	**0.12**	**J**	0.50	0.047	ppb v/v			03/21/14 18:13	1.66
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 18:13	1.66
Hexane	**0.21**	**J**	0.50	0.032	ppb v/v			03/21/14 18:13	1.66
Indane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
Indene	ND		0.40	0.40	ppb v/v			03/21/14 18:13	1.66
Isopropyl alcohol	**1.3**	**J**	2.0	0.094	ppb v/v			03/21/14 18:13	1.66
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 18:13	1.66
Methylene Chloride	**0.55**		0.50	0.13	ppb v/v			03/21/14 18:13	1.66
m-Xylene & p-Xylene	**2.6**		0.20	0.12	ppb v/v			03/21/14 18:13	1.66
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 18:13	1.66
o-Xylene	**1.0**		0.20	0.061	ppb v/v			03/21/14 18:13	1.66
Propene	**1.0**	**cn**	0.50	0.077	ppb v/v			03/21/14 18:13	1.66
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 18:13	1.66
Tetrachloroethene	**0.046**	**J**	0.20	0.040	ppb v/v			03/21/14 18:13	1.66
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 18:13	1.66
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
Toluene	**0.51**		0.20	0.12	ppb v/v			03/21/14 18:13	1.66
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 18:13	1.66
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 18:13	1.66
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 18:13	1.66
Trichlorofluoromethane	**0.18**	**J**	0.20	0.024	ppb v/v			03/21/14 18:13	1.66
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 18:13	1.66

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 18:13	1.66
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 18:13	1.66
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.47**	**J**	1.5	0.24	ug/m3			03/21/14 18:13	1.66
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 18:13	1.66
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 18:13	1.66
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 18:13	1.66
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 18:13	1.66
1,2,4-Trimethylbenzene	**0.98**		0.98	0.31	ug/m3			03/21/14 18:13	1.66
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 18:13	1.66
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 18:13	1.66
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 18:13	1.66
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 18:13	1.66
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 18:13	1.66
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 18:13	1.66
1,3-Butadiene	**0.24**	**J**	0.88	0.14	ug/m3			03/21/14 18:13	1.66
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 18:13	1.66
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 18:13	1.66
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 18:13	1.66

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B20
Date Collected: 03/14/14 17:01
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	**0.48**	**J**	2.3	0.18	ug/m3			03/21/14 18:13	1.66
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 18:13	1.66
2-Butanone (MEK)	**0.77**	**J**	2.9	0.59	ug/m3			03/21/14 18:13	1.66
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 18:13	1.66
2-Methylbutane	**2.1**		1.5	0.091	ug/m3			03/21/14 18:13	1.66
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 18:13	1.66
4-Ethyltoluene	**0.51**	**J**	2.0	0.32	ug/m3			03/21/14 18:13	1.66
4-Methyl-2-pentanone (MIBK)	**25**		2.0	0.18	ug/m3			03/21/14 18:13	1.66
Acetone	**5.3**	**J ***	12	3.3	ug/m3			03/21/14 18:13	1.66
Benzene	**1.1**		0.64	0.18	ug/m3			03/21/14 18:13	1.66
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 18:13	1.66
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 18:13	1.66
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 18:13	1.66
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 18:13	1.66
Carbon disulfide	**0.12**	**J**	1.6	0.097	ug/m3			03/21/14 18:13	1.66
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			03/21/14 18:13	1.66
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 18:13	1.66
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 18:13	1.66
Chloroform	**0.68**	**J**	0.98	0.19	ug/m3			03/21/14 18:13	1.66
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/21/14 18:13	1.66
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 18:13	1.66
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 18:13	1.66
Cyclohexane	**0.17**	**J**	1.7	0.14	ug/m3			03/21/14 18:13	1.66
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 18:13	1.66
Dichlorodifluoromethane	**1.9**		0.99	0.34	ug/m3			03/21/14 18:13	1.66
Ethanol	**68**		3.8	3.8	ug/m3			03/21/14 18:13	1.66
Ethylbenzene	**2.5**		0.87	0.30	ug/m3			03/21/14 18:13	1.66
Heptane	**0.49**	**J**	2.0	0.19	ug/m3			03/21/14 18:13	1.66
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 18:13	1.66
Hexane	**0.75**	**J**	1.8	0.11	ug/m3			03/21/14 18:13	1.66
Indane	ND		0.97	0.97	ug/m3			03/21/14 18:13	1.66
Indene	ND		1.9	1.9	ug/m3			03/21/14 18:13	1.66
Isopropyl alcohol	**3.2**	**J**	4.9	0.23	ug/m3			03/21/14 18:13	1.66
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 18:13	1.66
Methylene Chloride	**1.9**		1.7	0.45	ug/m3			03/21/14 18:13	1.66
m-Xylene & p-Xylene	**11**		0.87	0.52	ug/m3			03/21/14 18:13	1.66
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 18:13	1.66
o-Xylene	**4.5**		0.87	0.26	ug/m3			03/21/14 18:13	1.66
Propene	**1.8**	**cn**	0.86	0.13	ug/m3			03/21/14 18:13	1.66
Styrene	ND		0.85	0.25	ug/m3			03/21/14 18:13	1.66
Tetrachloroethene	**0.31**	**J**	1.4	0.27	ug/m3			03/21/14 18:13	1.66
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 18:13	1.66
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 18:13	1.66
Toluene	**1.9**		0.75	0.45	ug/m3			03/21/14 18:13	1.66
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 18:13	1.66
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 18:13	1.66
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 18:13	1.66
Trichlorofluoromethane	**1.0**	**J**	1.1	0.13	ug/m3			03/21/14 18:13	1.66

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Date Collected: 03/14/14 17:01

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 18:13	1.66

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 18:13*	*1.66*

Client Sample ID: PCV-AMB-8

Lab Sample ID: 140-1060-24

Date Collected: 03/14/14 16:31

Matrix: Air

Date Received: 03/15/14 09:02

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 19:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/21/14 19:07	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 19:07	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 19:07	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 19:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 19:07	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 19:07	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 19:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 19:07	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 19:07	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 19:07	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 19:07	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 19:07	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 19:07	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 19:07	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 19:07	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 19:07	1
2,2,4-Trimethylpentane	**0.066**	**J**	0.50	0.039	ppb v/v			03/21/14 19:07	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
2-Butanone (MEK)	**0.30**	**J**	1.0	0.20	ppb v/v			03/21/14 19:07	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 19:07	1
2-Methylbutane	**0.55**		0.50	0.031	ppb v/v			03/21/14 19:07	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 19:07	1
4-Methyl-2-pentanone (MIBK)	**0.97**		0.50	0.045	ppb v/v			03/21/14 19:07	1
Acetone	**2.0**	**J ***	5.0	1.4	ppb v/v			03/21/14 19:07	1
Benzene	**0.25**		0.20	0.056	ppb v/v			03/21/14 19:07	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 19:07	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 19:07	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 19:07	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 19:07	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 19:07	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/21/14 19:07	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 19:07	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 19:07	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB-8
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 19:07	1
Chloromethane	**0.52**		0.50	0.16	ppb v/v			03/21/14 19:07	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 19:07	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 19:07	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 19:07	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 19:07	1
Dichlorodifluoromethane	**0.41**		0.20	0.068	ppb v/v			03/21/14 19:07	1
Ethanol	**9.7**		2.0	2.0	ppb v/v			03/21/14 19:07	1
Ethylbenzene	**0.072**	**J**	0.20	0.068	ppb v/v			03/21/14 19:07	1
Heptane	**0.091**	**J**	0.50	0.047	ppb v/v			03/21/14 19:07	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 19:07	1
Hexane	**0.16**	**J**	0.50	0.032	ppb v/v			03/21/14 19:07	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 19:07	1
Isopropyl alcohol	**0.55**	**J**	2.0	0.094	ppb v/v			03/21/14 19:07	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 19:07	1
Methylene Chloride	**0.50**		0.50	0.13	ppb v/v			03/21/14 19:07	1
m-Xylene & p-Xylene	**0.23**		0.20	0.12	ppb v/v			03/21/14 19:07	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 19:07	1
o-Xylene	**0.091**	**J**	0.20	0.061	ppb v/v			03/21/14 19:07	1
Propene	**0.73**	**cn**	0.50	0.077	ppb v/v			03/21/14 19:07	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 19:07	1
Tetrachloroethene	**0.050**	**J**	0.20	0.040	ppb v/v			03/21/14 19:07	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 19:07	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
Toluene	**0.44**		0.20	0.12	ppb v/v			03/21/14 19:07	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 19:07	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 19:07	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 19:07	1
Trichlorofluoromethane	**0.19**	**J**	0.20	0.024	ppb v/v			03/21/14 19:07	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 19:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/21/14 19:07	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 19:07	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 19:07	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 19:07	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 19:07	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 19:07	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 19:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 19:07	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 19:07	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 19:07	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 19:07	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 19:07	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 19:07	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB-8
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 19:07	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 19:07	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 19:07	1
2,2,4-Trimethylpentane	**0.31**	**J**	2.3	0.18	ug/m3			03/21/14 19:07	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 19:07	1
2-Butanone (MEK)	**0.87**	**J**	2.9	0.59	ug/m3			03/21/14 19:07	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 19:07	1
2-Methylbutane	**1.6**		1.5	0.091	ug/m3			03/21/14 19:07	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 19:07	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 19:07	1
4-Methyl-2-pentanone (MIBK)	**4.0**		2.0	0.18	ug/m3			03/21/14 19:07	1
Acetone	**4.7**	**J ***	12	3.3	ug/m3			03/21/14 19:07	1
Benzene	**0.80**		0.64	0.18	ug/m3			03/21/14 19:07	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 19:07	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 19:07	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 19:07	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 19:07	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 19:07	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			03/21/14 19:07	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 19:07	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 19:07	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 19:07	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/21/14 19:07	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 19:07	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 19:07	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 19:07	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 19:07	1
Dichlorodifluoromethane	**2.0**		0.99	0.34	ug/m3			03/21/14 19:07	1
Ethanol	**18**		3.8	3.8	ug/m3			03/21/14 19:07	1
Ethylbenzene	**0.31**	**J**	0.87	0.30	ug/m3			03/21/14 19:07	1
Heptane	**0.37**	**J**	2.0	0.19	ug/m3			03/21/14 19:07	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 19:07	1
Hexane	**0.55**	**J**	1.8	0.11	ug/m3			03/21/14 19:07	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 19:07	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 19:07	1
Isopropyl alcohol	**1.4**	**J**	4.9	0.23	ug/m3			03/21/14 19:07	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 19:07	1
Methylene Chloride	**1.7**		1.7	0.45	ug/m3			03/21/14 19:07	1
m-Xylene & p-Xylene	**1.0**		0.87	0.52	ug/m3			03/21/14 19:07	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 19:07	1
o-Xylene	**0.40**	**J**	0.87	0.26	ug/m3			03/21/14 19:07	1
Propene	**1.2**	**cn**	0.86	0.13	ug/m3			03/21/14 19:07	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 19:07	1
Tetrachloroethene	**0.34**	**J**	1.4	0.27	ug/m3			03/21/14 19:07	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 19:07	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 19:07	1
Toluene	**1.7**		0.75	0.45	ug/m3			03/21/14 19:07	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 19:07	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-AMB-8
Lab Sample ID: 140-1060-24
Date Collected: 03/14/14 16:31
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 19:07	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 19:07	1
Trichlorofluoromethane	**1.1**	**J**	1.1	0.13	ug/m3			03/21/14 19:07	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*60 - 140*		*03/21/14 19:07*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
140-1060-1	PCV-IA1-B7	103							
140-1060-2	PCV-IA2-B4	104							
140-1060-3	PCV-IA1-B6	92							
140-1060-4	PCV-IA2-B6	94							
140-1060-5	PCV-IA1-B15	97							
140-1060-6	PCV-IA2-B15	97							
140-1060-7	PCV-IA3-B15	96							
140-1060-8	PCV-AMB7	83							
140-1060-9	PCV-IA1-B17	93							
140-1060-10	PCV-IA2-B17	92							
140-1060-11	PCV-IA3FD-B17	95							
140-1060-12	PCV-IA3-B17	93							
140-1060-13	PCV-IA4-B17	97							
140-1060-14	PCV-IA5-B17	95							
140-1060-15	PCV-IA1-B9	94							
140-1060-15 - DL	PCV-IA1-B9	98							
140-1060-16	PCV-IA1FD-B9	96							
140-1060-16 - DL	PCV-IA1FD-B9	98							
140-1060-17	PCV-IA2-B9	99							
140-1060-18	PCV-IA1-B8	105							
140-1060-18 - DL	PCV-IA1-B8	97							
140-1060-19	PCV-IA1FD-B8	104							
140-1060-19 - DL	PCV-IA1FD-B8	103							
140-1060-20	PCV-IA2-B8	98							
140-1060-21	PCV-IA1-B20	94							
140-1060-22	PCV-IA2-B20	94							
140-1060-22 - DL	PCV-IA2-B20	98							
140-1060-23	PCV-IA3-B20	94							
140-1060-24	PCV-AMB-8	90							
LCS 140-967/1002	Lab Control Sample	108							
LCS 140-977/1002	Lab Control Sample	100							
LCS 140-984/1002	Lab Control Sample	100							
LCS 140-990/1002	Lab Control Sample	104							
MB 140-967/5	Method Blank	103							
MB 140-977/4	Method Blank	97							
MB 140-984/5	Method Blank	93							
MB 140-990/1005	Method Blank	96							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 17:11	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/17/14 17:11	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 17:11	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/17/14 17:11	1
Acetone	ND		5.0	1.4	ppb v/v			03/17/14 17:11	1
Benzene	ND		0.20	0.056	ppb v/v			03/17/14 17:11	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 17:11	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 17:11	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/17/14 17:11	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 17:11	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 17:11	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/17/14 17:11	1
Chloroform	ND		0.20	0.038	ppb v/v			03/17/14 17:11	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 17:11	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/17/14 17:11	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Ethanol	ND		2.0	2.0	ppb v/v			03/17/14 17:11	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/17/14 17:11	1
Heptane	ND		0.50	0.047	ppb v/v			03/17/14 17:11	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 17:11	1
Hexane	ND		0.50	0.032	ppb v/v			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 17:11	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/17/14 17:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 17:11	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 17:11	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/17/14 17:11	1
Propene	ND		0.50	0.077	ppb v/v			03/17/14 17:11	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 17:11	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/17/14 17:11	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 17:11	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 17:11	1
Toluene	ND		0.20	0.12	ppb v/v			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 17:11	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 17:11	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/17/14 17:11	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 17:11	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/17/14 17:11	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 17:11	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 17:11	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/17/14 17:11	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 17:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 17:11	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 17:11	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 17:11	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/17/14 17:11	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 17:11	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 17:11	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 17:11	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 17:11	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/17/14 17:11	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 17:11	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/17/14 17:11	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 17:11	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/17/14 17:11	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/17/14 17:11	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/17/14 17:11	1
Acetone	ND		12	3.3	ug/m3			03/17/14 17:11	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-967/5
Matrix: Air
Analysis Batch: 967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/17/14 17:11	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 17:11	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 17:11	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 17:11	1
Bromomethane	ND		0.78	0.12	ug/m3			03/17/14 17:11	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 17:11	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/17/14 17:11	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 17:11	1
Chloroethane	ND		0.53	0.092	ug/m3			03/17/14 17:11	1
Chloroform	ND		0.98	0.19	ug/m3			03/17/14 17:11	1
Chloromethane	ND		1.0	0.33	ug/m3			03/17/14 17:11	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 17:11	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/17/14 17:11	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 17:11	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/17/14 17:11	1
Ethanol	ND		3.8	3.8	ug/m3			03/17/14 17:11	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/17/14 17:11	1
Heptane	ND		2.0	0.19	ug/m3			03/17/14 17:11	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 17:11	1
Hexane	ND		1.8	0.11	ug/m3			03/17/14 17:11	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 17:11	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 17:11	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/17/14 17:11	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 17:11	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/17/14 17:11	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/17/14 17:11	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 17:11	1
o-Xylene	ND		0.87	0.26	ug/m3			03/17/14 17:11	1
Propene	ND		0.86	0.13	ug/m3			03/17/14 17:11	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 17:11	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/17/14 17:11	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 17:11	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 17:11	1
Toluene	ND		0.75	0.45	ug/m3			03/17/14 17:11	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 17:11	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 17:11	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/17/14 17:11	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/17/14 17:11*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-977/4
Matrix: Air
Analysis Batch: 977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/20/14 15:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 15:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 15:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 15:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 15:46	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 15:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 15:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 15:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 15:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 15:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 15:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 15:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 15:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 15:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 15:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 15:46	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 15:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 15:46	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 15:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 15:46	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/20/14 15:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 15:46	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 15:46	1
Acetone	ND		5.0	1.4	ppb v/v			03/20/14 15:46	1
Benzene	ND		0.20	0.056	ppb v/v			03/20/14 15:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 15:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 15:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 15:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 15:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 15:46	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/20/14 15:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 15:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 15:46	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 15:46	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/20/14 15:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 15:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 15:46	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 15:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 15:46	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/20/14 15:46	1
Ethanol	ND		2.0	2.0	ppb v/v			03/20/14 15:46	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 15:46	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 15:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 15:46	1
Hexane	ND		0.50	0.032	ppb v/v			03/20/14 15:46	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-977/4
Matrix: Air
Analysis Batch: 977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 15:46	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 15:46	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/20/14 15:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 15:46	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/20/14 15:46	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 15:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 15:46	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 15:46	1
Propene	ND		0.50	0.077	ppb v/v			03/20/14 15:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 15:46	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/20/14 15:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 15:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 15:46	1
Toluene	ND		0.20	0.12	ppb v/v			03/20/14 15:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 15:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 15:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 15:46	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/20/14 15:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 15:46	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 15:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/20/14 15:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 15:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 15:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 15:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 15:46	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 15:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 15:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 15:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 15:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 15:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 15:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 15:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 15:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 15:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 15:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 15:46	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 15:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 15:46	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 15:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 15:46	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/20/14 15:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 15:46	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 15:46	1
Acetone	ND		12	3.3	ug/m3			03/20/14 15:46	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-977/4
Matrix: Air
Analysis Batch: 977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/20/14 15:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 15:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 15:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 15:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 15:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 15:46	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/20/14 15:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 15:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 15:46	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 15:46	1
Chloromethane	ND		1.0	0.33	ug/m3			03/20/14 15:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 15:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 15:46	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 15:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 15:46	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/20/14 15:46	1
Ethanol	ND		3.8	3.8	ug/m3			03/20/14 15:46	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 15:46	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 15:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 15:46	1
Hexane	ND		1.8	0.11	ug/m3			03/20/14 15:46	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 15:46	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 15:46	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/20/14 15:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 15:46	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/20/14 15:46	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 15:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 15:46	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 15:46	1
Propene	ND		0.86	0.13	ug/m3			03/20/14 15:46	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 15:46	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/20/14 15:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 15:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 15:46	1
Toluene	ND		0.75	0.45	ug/m3			03/20/14 15:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 15:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 15:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 15:46	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/20/14 15:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/20/14 15:46*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.07		ppb v/v		103	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.91		ppb v/v		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	1.80		ppb v/v		90	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1-Dichloroethene	2.00	2.22		ppb v/v		111	70 - 130
1,2,4-Trichlorobenzene	2.00	2.68		ppb v/v		134	60 - 140
1,2,4-Trimethylbenzene	2.00	2.38		ppb v/v		119	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.98		ppb v/v		99	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.53		ppb v/v		127	60 - 140
1,2-Dichlorobenzene	2.00	2.49		ppb v/v		125	70 - 130
1,2-Dichloroethane	2.00	1.87		ppb v/v		93	70 - 130
1,2-Dichloropropane	2.00	1.62		ppb v/v		81	70 - 130
1,3,5-Trimethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.00		ppb v/v		100	60 - 140
1,3-Dichlorobenzene	2.00	2.44		ppb v/v		122	70 - 130
1,4-Dichlorobenzene	2.00	2.41		ppb v/v		120	70 - 130
1,4-Dioxane	2.00	2.03		ppb v/v		102	60 - 140
2,2,4-Trimethylpentane	2.00	1.55		ppb v/v		78	70 - 130
2,3-Dimethylpentane	2.00	1.76		ppb v/v		88	20 - 180
2-Butanone (MEK)	2.00	1.40		ppb v/v		70	60 - 140
2-Hexanone	2.00	1.59		ppb v/v		80	60 - 140
2-Methylbutane	2.00	1.93		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.32		ppb v/v		66	20 - 180
4-Ethyltoluene	2.00	2.17		ppb v/v		109	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.32		ppb v/v		66	60 - 140
Acetone	2.00	1.78	J	ppb v/v		89	60 - 140
Benzene	2.00	1.81		ppb v/v		91	70 - 130
Benzyl chloride	2.00	2.27		ppb v/v		113	70 - 130
Bromodichloromethane	2.00	2.02		ppb v/v		101	70 - 130
Bromoform	2.00	2.69		ppb v/v		135	60 - 140
Bromomethane	2.00	2.43		ppb v/v		122	70 - 130
Carbon disulfide	2.00	1.87		ppb v/v		94	70 - 130
Carbon tetrachloride	2.00	2.48		ppb v/v		124	70 - 130
Chlorobenzene	2.00	2.14		ppb v/v		107	70 - 130
Chloroethane	2.00	2.20		ppb v/v		110	70 - 130
Chloroform	2.00	1.89		ppb v/v		95	70 - 130
Chloromethane	2.00	1.91		ppb v/v		95	60 - 140
cis-1,2-Dichloroethene	2.00	1.94		ppb v/v		97	70 - 130
cis-1,3-Dichloropropene	2.00	1.78		ppb v/v		89	70 - 130
Cyclohexane	2.00	1.77		ppb v/v		88	70 - 130
Dibromochloromethane	2.00	2.38		ppb v/v		119	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	9.76		ppb v/v		98	20 - 180
Ethylbenzene	2.00	1.94		ppb v/v		97	70 - 130
Heptane	2.00	1.78		ppb v/v		89	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.95	*	ppb v/v		148	60 - 140
Hexane	2.00	1.51		ppb v/v		75	70 - 130
Indane	2.00	2.32		ppb v/v		116	20 - 180
Indene	2.00	2.46		ppb v/v		123	20 - 180
Isopropyl alcohol	2.00	2.07		ppb v/v		103	60 - 140
Methyl tert-butyl ether	2.00	1.76		ppb v/v		88	60 - 140
Methylene Chloride	2.00	1.98		ppb v/v		99	70 - 130
m-Xylene & p-Xylene	4.00	4.16		ppb v/v		104	70 - 130
Naphthalene	2.00	2.83	*	ppb v/v		141	40 - 140
o-Xylene	2.00	2.02		ppb v/v		101	70 - 130
Propene	2.00	1.42		ppb v/v		71	60 - 140
Styrene	2.00	2.13		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	2.24		ppb v/v		112	70 - 130
Tetrahydrofuran	2.00	1.13	*	ppb v/v		57	60 - 140
Thiophene	2.00	1.84		ppb v/v		92	20 - 180
Toluene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,2-Dichloroethene	2.00	2.04		ppb v/v		102	70 - 130
trans-1,3-Dichloropropene	2.00	1.73		ppb v/v		86	70 - 130
Trichloroethene	2.00	2.11		ppb v/v		106	70 - 130
Trichlorofluoromethane	2.00	2.57		ppb v/v		128	60 - 140
Vinyl chloride	2.00	2.18		ppb v/v		109	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.3		ug/m3		103	70 - 130
1,1,2,2-Tetrachloroethane	14	13.1		ug/m3		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	9.84		ug/m3		90	70 - 130
1,1-Dichloroethane	8.1	7.02		ug/m3		87	70 - 130
1,1-Dichloroethene	7.9	8.80		ug/m3		111	70 - 130
1,2,4-Trichlorobenzene	15	19.9		ug/m3		134	60 - 140
1,2,4-Trimethylbenzene	9.8	11.7		ug/m3		119	70 - 130
1,2-Dibromoethane (EDB)	15	15.2		ug/m3		99	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	17.7		ug/m3		127	60 - 140
1,2-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,2-Dichloroethane	8.1	7.56		ug/m3		93	70 - 130
1,2-Dichloropropane	9.2	7.48		ug/m3		81	70 - 130
1,3,5-Trimethylbenzene	9.8	11.1		ug/m3		112	70 - 130
1,3-Butadiene	4.4	4.42		ug/m3		100	60 - 140
1,3-Dichlorobenzene	12	14.7		ug/m3		122	70 - 130
1,4-Dichlorobenzene	12	14.5		ug/m3		120	70 - 130
1,4-Dioxane	7.2	7.32		ug/m3		102	60 - 140
2,2,4-Trimethylpentane	9.3	7.25		ug/m3		78	70 - 130
2,3-Dimethylpentane	8.2	7.20		ug/m3		88	20 - 180
2-Butanone (MEK)	5.9	4.14		ug/m3		70	60 - 140
2-Hexanone	8.2	6.52		ug/m3		80	60 - 140
2-Methylbutane	5.9	5.68		ug/m3		96	70 - 130
2-Methylpentane	7.0	4.65		ug/m3		66	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.7		ug/m3		109	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	5.42		ug/m3		66	60 - 140
Acetone	4.8	4.22	J	ug/m3		89	60 - 140
Benzene	6.4	5.78		ug/m3		91	70 - 130
Benzyl chloride	10	11.8		ug/m3		113	70 - 130
Bromodichloromethane	13	13.5		ug/m3		101	70 - 130
Bromoform	21	27.8		ug/m3		135	60 - 140
Bromomethane	7.8	9.44		ug/m3		122	70 - 130
Carbon disulfide	6.2	5.83		ug/m3		94	70 - 130
Carbon tetrachloride	13	15.6		ug/m3		124	70 - 130
Chlorobenzene	9.2	9.86		ug/m3		107	70 - 130
Chloroethane	5.3	5.81		ug/m3		110	70 - 130
Chloroform	9.8	9.25		ug/m3		95	70 - 130
Chloromethane	4.1	3.94		ug/m3		95	60 - 140
cis-1,2-Dichloroethene	7.9	7.69		ug/m3		97	70 - 130
cis-1,3-Dichloropropene	9.1	8.10		ug/m3		89	70 - 130
Cyclohexane	6.9	6.08		ug/m3		88	70 - 130
Dibromochloromethane	17	20.3		ug/m3		119	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	18.4		ug/m3		98	20 - 180
Ethylbenzene	8.7	8.44		ug/m3		97	70 - 130
Heptane	8.2	7.31		ug/m3		89	70 - 130
Hexachlorobutadiene	21	31.5	*	ug/m3		148	60 - 140
Hexane	7.0	5.31		ug/m3		75	70 - 130
Indane	9.7	11.2		ug/m3		116	20 - 180
Indene	9.5	11.7		ug/m3		123	20 - 180
Isopropyl alcohol	4.9	5.08		ug/m3		103	60 - 140
Methyl tert-butyl ether	7.2	6.36		ug/m3		88	60 - 140
Methylene Chloride	6.9	6.88		ug/m3		99	70 - 130
m-Xylene & p-Xylene	17	18.1		ug/m3		104	70 - 130
Naphthalene	10	14.8	*	ug/m3		141	40 - 140
o-Xylene	8.7	8.77		ug/m3		101	70 - 130
Propene	3.4	2.45		ug/m3		71	60 - 140
Styrene	8.5	9.06		ug/m3		106	70 - 130
Tetrachloroethene	14	15.2		ug/m3		112	70 - 130
Tetrahydrofuran	5.9	3.34	*	ug/m3		57	60 - 140
Thiophene	6.9	6.34		ug/m3		92	20 - 180
Toluene	7.5	7.08		ug/m3		94	70 - 130
trans-1,2-Dichloroethene	7.9	8.09		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	9.1	7.85		ug/m3		86	70 - 130
Trichloroethene	11	11.4		ug/m3		106	70 - 130
Trichlorofluoromethane	11	14.4		ug/m3		128	60 - 140
Vinyl chloride	5.1	5.57		ug/m3		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 14:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 14:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 14:39	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 14:39	1
Acetone	ND		5.0	1.4	ppb v/v			03/21/14 14:39	1
Benzene	ND		0.20	0.056	ppb v/v			03/21/14 14:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 14:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 14:39	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 14:39	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 14:39	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 14:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Ethanol	ND		2.0	2.0	ppb v/v			03/21/14 14:39	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 14:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 14:39	1
Hexane	ND		0.50	0.032	ppb v/v			03/21/14 14:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 14:39	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/21/14 14:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 14:39	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 14:39	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
Propene	ND		0.50	0.077	ppb v/v			03/21/14 14:39	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 14:39	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 14:39	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 14:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Toluene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 14:39	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/21/14 14:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 14:39	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 14:39	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 14:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 14:39	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 14:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 14:39	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/21/14 14:39	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 14:39	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 14:39	1
Acetone	ND		12	3.3	ug/m3			03/21/14 14:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/21/14 14:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 14:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 14:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 14:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 14:39	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 14:39	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/21/14 14:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 14:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 14:39	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 14:39	1
Chloromethane	ND		1.0	0.33	ug/m3			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 14:39	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 14:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/21/14 14:39	1
Ethanol	ND		3.8	3.8	ug/m3			03/21/14 14:39	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 14:39	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 14:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 14:39	1
Hexane	ND		1.8	0.11	ug/m3			03/21/14 14:39	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 14:39	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 14:39	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/21/14 14:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 14:39	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 14:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 14:39	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 14:39	1
Propene	ND		0.86	0.13	ug/m3			03/21/14 14:39	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 14:39	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 14:39	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 14:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 14:39	1
Toluene	ND		0.75	0.45	ug/m3			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 14:39	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 14:39	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/21/14 14:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/21/14 14:39*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/24/14 11:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/24/14 11:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/24/14 11:45	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/24/14 11:45	1
Acetone	ND		5.0	1.4	ppb v/v			03/24/14 11:45	1
Benzene	ND		0.20	0.056	ppb v/v			03/24/14 11:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/24/14 11:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/24/14 11:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/24/14 11:45	1
Chloroform	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/24/14 11:45	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/24/14 11:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Ethanol	ND		2.0	2.0	ppb v/v			03/24/14 11:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Heptane	ND		0.50	0.047	ppb v/v			03/24/14 11:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/24/14 11:45	1
Hexane	ND		0.50	0.032	ppb v/v			03/24/14 11:45	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Indene	ND		0.40	0.40	ppb v/v			03/24/14 11:45	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/24/14 11:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/24/14 11:45	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/24/14 11:45	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
Propene	ND		0.50	0.077	ppb v/v			03/24/14 11:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/24/14 11:45	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/24/14 11:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/24/14 11:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Toluene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/24/14 11:45	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/24/14 11:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/24/14 11:45	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/24/14 11:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/24/14 11:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/24/14 11:45	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/24/14 11:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/24/14 11:45	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/24/14 11:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/24/14 11:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/24/14 11:45	1
Acetone	ND		12	3.3	ug/m3			03/24/14 11:45	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/24/14 11:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/24/14 11:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/24/14 11:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/24/14 11:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/24/14 11:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/24/14 11:45	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/24/14 11:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/24/14 11:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/24/14 11:45	1
Chloroform	ND		0.98	0.19	ug/m3			03/24/14 11:45	1
Chloromethane	ND		1.0	0.33	ug/m3			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/24/14 11:45	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/24/14 11:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/24/14 11:45	1
Ethanol	ND		3.8	3.8	ug/m3			03/24/14 11:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/24/14 11:45	1
Heptane	ND		2.0	0.19	ug/m3			03/24/14 11:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/24/14 11:45	1
Hexane	ND		1.8	0.11	ug/m3			03/24/14 11:45	1
Indane	ND		0.97	0.97	ug/m3			03/24/14 11:45	1
Indene	ND		1.9	1.9	ug/m3			03/24/14 11:45	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/24/14 11:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/24/14 11:45	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/24/14 11:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/24/14 11:45	1
o-Xylene	ND		0.87	0.26	ug/m3			03/24/14 11:45	1
Propene	ND		0.86	0.13	ug/m3			03/24/14 11:45	1
Styrene	ND		0.85	0.25	ug/m3			03/24/14 11:45	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/24/14 11:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/24/14 11:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/24/14 11:45	1
Toluene	ND		0.75	0.45	ug/m3			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/24/14 11:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/24/14 11:45	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/24/14 11:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/24/14 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/24/14 11:45*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.11		ppb v/v		105	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19		ppb v/v		110	70 - 130
1,1,2-Trichloroethane	2.00	1.87		ppb v/v		94	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		86	70 - 130
1,1-Dichloroethene	2.00	2.02		ppb v/v		101	70 - 130
1,2,4-Trichlorobenzene	2.00	2.49		ppb v/v		124	60 - 140
1,2,4-Trimethylbenzene	2.00	2.50		ppb v/v		125	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59		ppb v/v		129	60 - 140
1,2-Dichlorobenzene	2.00	2.52		ppb v/v		126	70 - 130
1,2-Dichloroethane	2.00	1.93		ppb v/v		96	70 - 130
1,2-Dichloropropane	2.00	1.65		ppb v/v		82	70 - 130
1,3,5-Trimethylbenzene	2.00	2.33		ppb v/v		116	70 - 130
1,3-Butadiene	2.00	1.93		ppb v/v		97	60 - 140
1,3-Dichlorobenzene	2.00	2.50		ppb v/v		125	70 - 130
1,4-Dichlorobenzene	2.00	2.47		ppb v/v		123	70 - 130
1,4-Dioxane	2.00	1.49		ppb v/v		75	60 - 140
2,2,4-Trimethylpentane	2.00	1.42		ppb v/v		71	70 - 130
2,3-Dimethylpentane	2.00	1.63		ppb v/v		82	20 - 180
2-Butanone (MEK)	2.00	1.47		ppb v/v		73	60 - 140
2-Hexanone	2.00	1.41		ppb v/v		70	60 - 140
2-Methylbutane	2.00	1.88		ppb v/v		94	70 - 130
2-Methylpentane	2.00	1.24		ppb v/v		62	20 - 180
4-Ethyltoluene	2.00	2.31		ppb v/v		116	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.15	*	ppb v/v		58	60 - 140
Acetone	2.00	1.82	J	ppb v/v		91	60 - 140
Benzene	2.00	1.80		ppb v/v		90	70 - 130
Benzyl chloride	2.00	2.40		ppb v/v		120	70 - 130
Bromodichloromethane	2.00	1.99		ppb v/v		99	70 - 130
Bromoform	2.00	2.76		ppb v/v		138	60 - 140
Bromomethane	2.00	2.33		ppb v/v		116	70 - 130
Carbon disulfide	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.36		ppb v/v		118	70 - 130
Chlorobenzene	2.00	2.17		ppb v/v		109	70 - 130
Chloroethane	2.00	2.15		ppb v/v		107	70 - 130
Chloroform	2.00	1.95		ppb v/v		98	70 - 130
Chloromethane	2.00	1.78		ppb v/v		89	60 - 140
cis-1,2-Dichloroethene	2.00	1.82		ppb v/v		91	70 - 130
cis-1,3-Dichloropropene	2.00	1.87		ppb v/v		94	70 - 130
Cyclohexane	2.00	1.62		ppb v/v		81	70 - 130
Dibromochloromethane	2.00	2.34		ppb v/v		117	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	8.52		ppb v/v		85	20 - 180
Ethylbenzene	2.00	2.07		ppb v/v		104	70 - 130
Heptane	2.00	1.64		ppb v/v		82	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.94	*	ppb v/v		147	60 - 140
Hexane	2.00	1.45		ppb v/v		73	70 - 130
Indane	2.00	2.40		ppb v/v		120	20 - 180
Indene	2.00	2.51		ppb v/v		126	20 - 180
Isopropyl alcohol	2.00	1.79		ppb v/v		90	60 - 140
Methyl tert-butyl ether	2.00	1.99		ppb v/v		100	60 - 140
Methylene Chloride	2.00	1.92		ppb v/v		96	70 - 130
m-Xylene & p-Xylene	4.00	4.51		ppb v/v		113	70 - 130
Naphthalene	2.00	2.46		ppb v/v		123	40 - 140
o-Xylene	2.00	2.15		ppb v/v		107	70 - 130
Propene	2.00	1.34		ppb v/v		67	60 - 140
Styrene	2.00	2.31		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.03		ppb v/v		102	70 - 130
Tetrahydrofuran	2.00	1.23		ppb v/v		61	60 - 140
Thiophene	2.00	1.78		ppb v/v		89	20 - 180
Toluene	2.00	1.95		ppb v/v		98	70 - 130
trans-1,2-Dichloroethene	2.00	1.93		ppb v/v		96	70 - 130
trans-1,3-Dichloropropene	2.00	1.86		ppb v/v		93	70 - 130
Trichloroethene	2.00	1.91		ppb v/v		96	70 - 130
Trichlorofluoromethane	2.00	2.60		ppb v/v		130	60 - 140
Vinyl chloride	2.00	2.12		ppb v/v		106	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.5		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	14	14.0		ug/m3		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	16.8		ug/m3		110	70 - 130
1,1,2-Trichloroethane	11	10.2		ug/m3		94	70 - 130
1,1-Dichloroethane	8.1	6.98		ug/m3		86	70 - 130
1,1-Dichloroethene	7.9	8.02		ug/m3		101	70 - 130
1,2,4-Trichlorobenzene	15	18.5		ug/m3		124	60 - 140
1,2,4-Trimethylbenzene	9.8	12.3		ug/m3		125	70 - 130
1,2-Dibromoethane (EDB)	15	15.8		ug/m3		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.1		ug/m3		129	60 - 140
1,2-Dichlorobenzene	12	15.2		ug/m3		126	70 - 130
1,2-Dichloroethane	8.1	7.81		ug/m3		96	70 - 130
1,2-Dichloropropane	9.2	7.61		ug/m3		82	70 - 130
1,3,5-Trimethylbenzene	9.8	11.4		ug/m3		116	70 - 130
1,3-Butadiene	4.4	4.27		ug/m3		97	60 - 140
1,3-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,4-Dichlorobenzene	12	14.8		ug/m3		123	70 - 130
1,4-Dioxane	7.2	5.38		ug/m3		75	60 - 140
2,2,4-Trimethylpentane	9.3	6.61		ug/m3		71	70 - 130
2,3-Dimethylpentane	8.2	6.69		ug/m3		82	20 - 180
2-Butanone (MEK)	5.9	4.33		ug/m3		73	60 - 140
2-Hexanone	8.2	5.76		ug/m3		70	60 - 140
2-Methylbutane	5.9	5.55		ug/m3		94	70 - 130
2-Methylpentane	7.0	4.36		ug/m3		62	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.4		ug/m3		116	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	4.71	*	ug/m3		58	60 - 140
Acetone	4.8	4.33	J	ug/m3		91	60 - 140
Benzene	6.4	5.77		ug/m3		90	70 - 130
Benzyl chloride	10	12.4		ug/m3		120	70 - 130
Bromodichloromethane	13	13.3		ug/m3		99	70 - 130
Bromoform	21	28.5		ug/m3		138	60 - 140
Bromomethane	7.8	9.04		ug/m3		116	70 - 130
Carbon disulfide	6.2	5.69		ug/m3		91	70 - 130
Carbon tetrachloride	13	14.8		ug/m3		118	70 - 130
Chlorobenzene	9.2	10.0		ug/m3		109	70 - 130
Chloroethane	5.3	5.67		ug/m3		107	70 - 130
Chloroform	9.8	9.54		ug/m3		98	70 - 130
Chloromethane	4.1	3.68		ug/m3		89	60 - 140
cis-1,2-Dichloroethene	7.9	7.21		ug/m3		91	70 - 130
cis-1,3-Dichloropropene	9.1	8.51		ug/m3		94	70 - 130
Cyclohexane	6.9	5.59		ug/m3		81	70 - 130
Dibromochloromethane	17	19.9		ug/m3		117	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	16.0		ug/m3		85	20 - 180
Ethylbenzene	8.7	9.00		ug/m3		104	70 - 130
Heptane	8.2	6.70		ug/m3		82	70 - 130
Hexachlorobutadiene	21	31.3	*	ug/m3		147	60 - 140
Hexane	7.0	5.12		ug/m3		73	70 - 130
Indane	9.7	11.6		ug/m3		120	20 - 180
Indene	9.5	11.9		ug/m3		126	20 - 180
Isopropyl alcohol	4.9	4.40		ug/m3		90	60 - 140
Methyl tert-butyl ether	7.2	7.19		ug/m3		100	60 - 140
Methylene Chloride	6.9	6.68		ug/m3		96	70 - 130
m-Xylene & p-Xylene	17	19.6		ug/m3		113	70 - 130
Naphthalene	10	12.9		ug/m3		123	40 - 140
o-Xylene	8.7	9.32		ug/m3		107	70 - 130
Propene	3.4	2.30		ug/m3		67	60 - 140
Styrene	8.5	9.83		ug/m3		115	70 - 130
Tetrachloroethene	14	13.8		ug/m3		102	70 - 130
Tetrahydrofuran	5.9	3.61		ug/m3		61	60 - 140
Thiophene	6.9	6.13		ug/m3		89	20 - 180
Toluene	7.5	7.36		ug/m3		98	70 - 130
trans-1,2-Dichloroethene	7.9	7.65		ug/m3		96	70 - 130
trans-1,3-Dichloropropene	9.1	8.44		ug/m3		93	70 - 130
Trichloroethene	11	10.3		ug/m3		96	70 - 130
Trichlorofluoromethane	11	14.6		ug/m3		130	60 - 140
Vinyl chloride	5.1	5.42		ug/m3		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*

Air - GC/MS VOA

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1060-1	PCV-IA1-B7	Total/NA	Air	TO-15	
140-1060-2	PCV-IA2-B4	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1060-3	PCV-IA1-B6	Total/NA	Air	TO-15	
140-1060-4	PCV-IA2-B6	Total/NA	Air	TO-15	
140-1060-5	PCV-IA1-B15	Total/NA	Air	TO-15	
140-1060-6	PCV-IA2-B15	Total/NA	Air	TO-15	
140-1060-7	PCV-IA3-B15	Total/NA	Air	TO-15	
140-1060-8	PCV-AMB7	Total/NA	Air	TO-15	
140-1060-9	PCV-IA1-B17	Total/NA	Air	TO-15	
140-1060-10	PCV-IA2-B17	Total/NA	Air	TO-15	
140-1060-11	PCV-IA3FD-B17	Total/NA	Air	TO-15	
140-1060-12	PCV-IA3-B17	Total/NA	Air	TO-15	
140-1060-13	PCV-IA4-B17	Total/NA	Air	TO-15	
140-1060-14	PCV-IA5-B17	Total/NA	Air	TO-15	
140-1060-15	PCV-IA1-B9	Total/NA	Air	TO-15	
140-1060-16	PCV-IA1FD-B9	Total/NA	Air	TO-15	
140-1060-17	PCV-IA2-B9	Total/NA	Air	TO-15	
140-1060-18	PCV-IA1-B8	Total/NA	Air	TO-15	
140-1060-19	PCV-IA1FD-B8	Total/NA	Air	TO-15	
140-1060-20	PCV-IA2-B8	Total/NA	Air	TO-15	
LCS 140-977/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-977/4	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1060-15 - DL	PCV-IA1-B9	Total/NA	Air	TO-15	
140-1060-21	PCV-IA1-B20	Total/NA	Air	TO-15	
140-1060-22	PCV-IA2-B20	Total/NA	Air	TO-15	
140-1060-23	PCV-IA3-B20	Total/NA	Air	TO-15	
140-1060-24	PCV-AMB-8	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1060-16 - DL	PCV-IA1FD-B9	Total/NA	Air	TO-15	
140-1060-18 - DL	PCV-IA1-B8	Total/NA	Air	TO-15	
140-1060-19 - DL	PCV-IA1FD-B8	Total/NA	Air	TO-15	
140-1060-22 - DL	PCV-IA2-B20	Total/NA	Air	TO-15	
LCS 140-990/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-990/1005	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 03:47	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	967	03/18/14 04:33	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 16:31	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 17:15	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 18:00	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02

Lab Sample ID: 140-1060-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 18:46	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B15

Lab Sample ID: 140-1060-7

Date Collected: 03/14/14 16:20

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 19:31	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-AMB7

Lab Sample ID: 140-1060-8

Date Collected: 03/14/14 15:47

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 20:16	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B17

Lab Sample ID: 140-1060-9

Date Collected: 03/14/14 08:50

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 21:00	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B17

Lab Sample ID: 140-1060-10

Date Collected: 03/14/14 16:30

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 21:45	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3FD-B17

Lab Sample ID: 140-1060-11

Date Collected: 03/14/14 16:08

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 22:30	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA3-B17

Lab Sample ID: 140-1060-12

Date Collected: 03/14/14 13:55

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/20/14 23:16	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA4-B17

Lab Sample ID: 140-1060-13

Date Collected: 03/14/14 15:35

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 00:01	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA5-B17

Lab Sample ID: 140-1060-14

Date Collected: 03/14/14 15:55

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 00:47	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B9

Lab Sample ID: 140-1060-15

Date Collected: 03/14/14 16:19

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 01:33	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	984	03/21/14 20:00	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA1FD-B9

Lab Sample ID: 140-1060-16

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 02:19	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	990	03/24/14 17:39	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Date Collected: 03/14/14 16:17

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 03:04	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B8

Lab Sample ID: 140-1060-18

Date Collected: 03/14/14 16:45

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 04:33	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	990	03/24/14 18:24	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1FD-B8

Lab Sample ID: 140-1060-19

Date Collected: 03/14/14 13:15

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 05:18	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	990	03/24/14 19:08	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA2-B8

Lab Sample ID: 140-1060-20

Date Collected: 03/14/14 16:03

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	977	03/21/14 06:03	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: PCV-IA1-B20

Lab Sample ID: 140-1060-21

Date Collected: 03/14/14 16:37

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 16:26	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA2-B20

Lab Sample ID: 140-1060-22

Date Collected: 03/14/14 16:35

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	80 mL	500 mL	990	03/24/14 19:53	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 17:20	HMT	TAL KNX
	Instrument ID: MJ									

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Date Collected: 03/14/14 17:01

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.66	332 mL	500 mL	984	03/21/14 18:13	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-AMB-8

Lab Sample ID: 140-1060-24

Date Collected: 03/14/14 16:31

Matrix: Air

Date Received: 03/15/14 09:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 19:07	HMT	TAL KNX
	Instrument ID: MJ									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1060-1	PCV-IA1-B7	Air	03/14/14 15:50	03/15/14 09:02
140-1060-2	PCV-IA2-B4	Air	03/14/14 16:45	03/15/14 09:02
140-1060-3	PCV-IA1-B6	Air	03/14/14 16:31	03/15/14 09:02
140-1060-4	PCV-IA2-B6	Air	03/14/14 16:34	03/15/14 09:02
140-1060-5	PCV-IA1-B15	Air	03/14/14 16:10	03/15/14 09:02
140-1060-6	PCV-IA2-B15	Air	03/14/14 16:16	03/15/14 09:02
140-1060-7	PCV-IA3-B15	Air	03/14/14 16:20	03/15/14 09:02
140-1060-8	PCV-AMB7	Air	03/14/14 15:47	03/15/14 09:02
140-1060-9	PCV-IA1-B17	Air	03/14/14 08:50	03/15/14 09:02
140-1060-10	PCV-IA2-B17	Air	03/14/14 16:30	03/15/14 09:02
140-1060-11	PCV-IA3FD-B17	Air	03/14/14 16:08	03/15/14 09:02
140-1060-12	PCV-IA3-B17	Air	03/14/14 13:55	03/15/14 09:02
140-1060-13	PCV-IA4-B17	Air	03/14/14 15:35	03/15/14 09:02
140-1060-14	PCV-IA5-B17	Air	03/14/14 15:55	03/15/14 09:02
140-1060-15	PCV-IA1-B9	Air	03/14/14 16:19	03/15/14 09:02
140-1060-16	PCV-IA1FD-B9	Air	03/14/14 16:17	03/15/14 09:02
140-1060-17	PCV-IA2-B9	Air	03/14/14 16:17	03/15/14 09:02
140-1060-18	PCV-IA1-B8	Air	03/14/14 16:45	03/15/14 09:02
140-1060-19	PCV-IA1FD-B8	Air	03/14/14 13:15	03/15/14 09:02
140-1060-20	PCV-IA2-B8	Air	03/14/14 16:03	03/15/14 09:02
140-1060-21	PCV-IA1-B20	Air	03/14/14 16:37	03/15/14 09:02
140-1060-22	PCV-IA2-B20	Air	03/14/14 16:35	03/15/14 09:02
140-1060-23	PCV-IA3-B20	Air	03/14/14 17:01	03/15/14 09:02
140-1060-24	PCV-AMB-8	Air	03/14/14 16:31	03/15/14 09:02

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
PCV-IA1-B7	140-1060-1	103
PCV-IA2-B4	140-1060-2	104
PCV-IA1-B6	140-1060-3	92
PCV-IA2-B6	140-1060-4	94
PCV-IA1-B15	140-1060-5	97
PCV-IA2-B15	140-1060-6	97
PCV-IA3-B15	140-1060-7	96
PCV-AMB7	140-1060-8	83
PCV-IA1-B17	140-1060-9	93
PCV-IA2-B17	140-1060-10	92
PCV-IA3FD-B17	140-1060-11	95
PCV-IA3-B17	140-1060-12	93
PCV-IA4-B17	140-1060-13	97
PCV-IA5-B17	140-1060-14	95
PCV-IA1-B9	140-1060-15	94
PCV-IA1-B9 DL	140-1060-15 DL	98
PCV-IA1FD-B9	140-1060-16	96
PCV-IA1FD-B9 DL	140-1060-16 DL	98
PCV-IA2-B9	140-1060-17	99
PCV-IA1-B8	140-1060-18	105
PCV-IA1-B8 DL	140-1060-18 DL	97
PCV-IA1FD-B8	140-1060-19	104
PCV-IA1FD-B8 DL	140-1060-19 DL	103
PCV-IA2-B8	140-1060-20	98
PCV-IA1-B20	140-1060-21	94
PCV-IA2-B20	140-1060-22	94
PCV-IA2-B20 DL	140-1060-22 DL	98
PCV-IA3-B20	140-1060-23	94
PCV-AMB-8	140-1060-24	90
	MB 140-967/5	103
	MB 140-977/4	97
	MB 140-984/5	93
	MB 140-990/1005	96
	LCS 140-967/1002	108
	LCS 140-977/1002	100

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
	LCS 140-984/1002	100
	LCS 140-990/1002	104

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.28	114	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22	111	70-130	
1,1,2-Trichloroethane	2.00	2.11	106	70-130	
1,1-Dichloroethane	2.00	2.03	102	70-130	
1,1-Dichloroethene	2.00	2.07	104	70-130	
1,2,4-Trichlorobenzene	2.00	2.21	110	60-140	
1,2,4-Trimethylbenzene	2.00	2.40	120	70-130	
1,2-Dibromoethane (EDB)	2.00	2.19	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65	133	60-140	
1,2-Dichlorobenzene	2.00	2.33	117	70-130	
1,2-Dichloroethane	2.00	2.31	115	70-130	
1,2-Dichloropropane	2.00	1.97	99	70-130	
1,3,5-Trimethylbenzene	2.00	2.24	112	70-130	
1,3-Butadiene	2.00	2.43	122	60-140	
1,3-Dichlorobenzene	2.00	2.33	116	70-130	
1,4-Dichlorobenzene	2.00	2.31	115	70-130	
1,4-Dioxane	2.00	1.83	91	60-140	
2,2,4-Trimethylpentane	2.00	1.85	92	70-130	
2,3-Dimethylpentane	2.00	1.95	97	20-180	
2-Butanone (MEK)	2.00	1.63	82	60-140	
2-Hexanone	2.00	1.77	89	60-140	
2-Methylbutane	2.00	2.40	120	70-130	
2-Methylpentane	2.00	1.79	90	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.81	90	60-140	
Acetone	2.00	1.98 J	99	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.54	127	70-130	
Bromodichloromethane	2.00	2.31	116	70-130	
Bromoform	2.00	2.57	129	60-140	
Bromomethane	2.00	2.64	132	70-130	*
Carbon disulfide	2.00	2.07	103	70-130	
Carbon tetrachloride	2.00	2.43	121	70-130	
Chlorobenzene	2.00	2.16	108	70-130	
Chloroethane	2.00	2.65	133	70-130	*
Chloroform	2.00	2.25	112	70-130	
Chloromethane	2.00	2.20	110	60-140	
cis-1,2-Dichloroethene	2.00	1.99	99	70-130	
cis-1,3-Dichloropropene	2.00	2.19	110	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC17-LCS.d

Lab ID: LCS 140-967/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.99	100	70-130	
Dibromochloromethane	2.00	2.40	120	70-130	
Dichlorodifluoromethane	2.00	2.53	126	60-140	
Ethanol	10.0	10.8	108	20-180	
Ethylbenzene	2.00	2.25	112	70-130	
Heptane	2.00	2.03	101	70-130	
Hexachlorobutadiene	2.00	2.42	121	60-140	
Hexane	2.00	1.87	93	70-130	
Indane	2.00	2.34	117	20-180	
Indene	2.00	2.44	122	20-180	
Isopropyl alcohol	2.00	2.28	114	60-140	
Methyl tert-butyl ether	2.00	2.23	111	60-140	
Methylene Chloride	2.00	2.09	105	70-130	
m-Xylene & p-Xylene	4.00	4.73	118	70-130	
Naphthalene	2.00	2.51	125	40-140	
o-Xylene	2.00	2.27	114	70-130	
Propene	2.00	1.83	92	60-140	
Styrene	2.00	2.32	116	70-130	
Tetrachloroethene	2.00	2.11	106	70-130	
Tetrahydrofuran	2.00	1.65	82	60-140	
Thiophene	2.00	2.04	102	20-180	
Toluene	2.00	2.12	106	70-130	
trans-1,2-Dichloroethene	2.00	2.05	103	70-130	
trans-1,3-Dichloropropene	2.00	2.23	111	70-130	
Trichloroethene	2.00	1.99	99	70-130	
Trichlorofluoromethane	2.00	2.69	135	60-140	
Vinyl chloride	2.00	2.52	126	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC20-LCS.d

Lab ID: LCS 140-977/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.07	103	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.91	96	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22	111	70-130	
1,1,2-Trichloroethane	2.00	1.80	90	70-130	
1,1-Dichloroethane	2.00	1.73	87	70-130	
1,1-Dichloroethene	2.00	2.22	111	70-130	
1,2,4-Trichlorobenzene	2.00	2.68	134	60-140	
1,2,4-Trimethylbenzene	2.00	2.38	119	70-130	
1,2-Dibromoethane (EDB)	2.00	1.98	99	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.53	127	60-140	
1,2-Dichlorobenzene	2.00	2.49	125	70-130	
1,2-Dichloroethane	2.00	1.87	93	70-130	
1,2-Dichloropropane	2.00	1.62	81	70-130	
1,3,5-Trimethylbenzene	2.00	2.25	112	70-130	
1,3-Butadiene	2.00	2.00	100	60-140	
1,3-Dichlorobenzene	2.00	2.44	122	70-130	
1,4-Dichlorobenzene	2.00	2.41	120	70-130	
1,4-Dioxane	2.00	2.03	102	60-140	
2,2,4-Trimethylpentane	2.00	1.55	78	70-130	
2,3-Dimethylpentane	2.00	1.76	88	20-180	
2-Butanone (MEK)	2.00	1.40	70	60-140	
2-Hexanone	2.00	1.59	80	60-140	
2-Methylbutane	2.00	1.93	96	70-130	
2-Methylpentane	2.00	1.32	66	20-180	
4-Ethyltoluene	2.00	2.17	109	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.32	66	60-140	
Acetone	2.00	1.78 J	89	60-140	
Benzene	2.00	1.81	91	70-130	
Benzyl chloride	2.00	2.27	113	70-130	
Bromodichloromethane	2.00	2.02	101	70-130	
Bromoform	2.00	2.69	135	60-140	
Bromomethane	2.00	2.43	122	70-130	
Carbon disulfide	2.00	1.87	94	70-130	
Carbon tetrachloride	2.00	2.48	124	70-130	
Chlorobenzene	2.00	2.14	107	70-130	
Chloroethane	2.00	2.20	110	70-130	
Chloroform	2.00	1.89	95	70-130	
Chloromethane	2.00	1.91	95	60-140	
cis-1,2-Dichloroethene	2.00	1.94	97	70-130	
cis-1,3-Dichloropropene	2.00	1.78	89	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC20-LCS.d

Lab ID: LCS 140-977/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.77	88	70-130	
Dibromochloromethane	2.00	2.38	119	70-130	
Dichlorodifluoromethane	2.00	2.25	113	60-140	
Ethanol	10.0	9.76	98	20-180	
Ethylbenzene	2.00	1.94	97	70-130	
Heptane	2.00	1.78	89	70-130	
Hexachlorobutadiene	2.00	2.95	148	60-140	*
Hexane	2.00	1.51	75	70-130	
Indane	2.00	2.32	116	20-180	
Indene	2.00	2.46	123	20-180	
Isopropyl alcohol	2.00	2.07	103	60-140	
Methyl tert-butyl ether	2.00	1.76	88	60-140	
Methylene Chloride	2.00	1.98	99	70-130	
m-Xylene & p-Xylene	4.00	4.16	104	70-130	
Naphthalene	2.00	2.83	141	40-140	*
o-Xylene	2.00	2.02	101	70-130	
Propene	2.00	1.42	71	60-140	
Styrene	2.00	2.13	106	70-130	
Tetrachloroethene	2.00	2.24	112	70-130	
Tetrahydrofuran	2.00	1.13	57	60-140	*
Thiophene	2.00	1.84	92	20-180	
Toluene	2.00	1.88	94	70-130	
trans-1,2-Dichloroethene	2.00	2.04	102	70-130	
trans-1,3-Dichloropropene	2.00	1.73	86	70-130	
Trichloroethene	2.00	2.11	106	70-130	
Trichlorofluoromethane	2.00	2.57	128	60-140	
Vinyl chloride	2.00	2.18	109	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d

Lab ID: LCS 140-984/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.82	91	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.73	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26	113	70-130	
1,1,2-Trichloroethane	2.00	1.68	84	70-130	
1,1-Dichloroethane	2.00	1.83	91	70-130	
1,1-Dichloroethene	2.00	2.30	115	70-130	
1,2,4-Trichlorobenzene	2.00	1.52	76	60-140	
1,2,4-Trimethylbenzene	2.00	1.72	86	70-130	
1,2-Dibromoethane (EDB)	2.00	1.69	85	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18	109	60-140	
1,2-Dichlorobenzene	2.00	1.51	76	70-130	
1,2-Dichloroethane	2.00	1.83	92	70-130	
1,2-Dichloropropane	2.00	1.66	83	70-130	
1,3,5-Trimethylbenzene	2.00	1.69	85	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	1.49	74	70-130	
1,4-Dichlorobenzene	2.00	1.47	73	70-130	
1,4-Dioxane	2.00	1.58	79	60-140	
2,2,4-Trimethylpentane	2.00	1.70	85	70-130	
2,3-Dimethylpentane	2.00	1.69	84	20-180	
2-Butanone (MEK)	2.00	1.71	85	60-140	
2-Hexanone	2.00	1.75	88	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.89	95	20-180	
4-Ethyltoluene	2.00	1.75	87	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.74	87	60-140	
Acetone	2.00	1.05 J	53	60-140	*
Benzene	2.00	1.76	88	70-130	
Benzyl chloride	2.00	1.59	80	70-130	
Bromodichloromethane	2.00	1.73	86	70-130	
Bromoform	2.00	1.62	81	60-140	
Bromomethane	2.00	1.98	99	70-130	
Carbon disulfide	2.00	2.05	102	70-130	
Carbon tetrachloride	2.00	1.79	89	70-130	
Chlorobenzene	2.00	1.64	82	70-130	
Chloroethane	2.00	1.98	99	70-130	
Chloroform	2.00	1.79	90	70-130	
Chloromethane	2.00	2.04	102	60-140	
cis-1,2-Dichloroethene	2.00	1.89	94	70-130	
cis-1,3-Dichloropropene	2.00	1.65	83	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d

Lab ID: LCS 140-984/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.85	92	70-130	
Dibromochloromethane	2.00	1.74	87	70-130	
Dichlorodifluoromethane	2.00	2.10	105	60-140	
Ethanol	10.0	9.32	93	20-180	
Ethylbenzene	2.00	1.70	85	70-130	
Heptane	2.00	1.69	84	70-130	
Hexachlorobutadiene	2.00	1.43	72	60-140	
Hexane	2.00	1.70	85	70-130	
Indane	2.00	1.70	85	20-180	
Indene	2.00	1.75	87	20-180	
Isopropyl alcohol	2.00	1.81	91	60-140	
Methyl tert-butyl ether	2.00	1.83	91	60-140	
Methylene Chloride	2.00	2.13	107	70-130	
m-Xylene & p-Xylene	4.00	3.28	82	70-130	
Naphthalene	2.00	1.50	75	40-140	
o-Xylene	2.00	1.67	83	70-130	
Propene	2.00	1.93	97	60-140	
Styrene	2.00	1.64	82	70-130	
Tetrachloroethene	2.00	1.70	85	70-130	
Tetrahydrofuran	2.00	1.73	87	60-140	
Thiophene	2.00	1.72	86	20-180	
Toluene	2.00	1.69	84	70-130	
trans-1,2-Dichloroethene	2.00	1.90	95	70-130	
trans-1,3-Dichloropropene	2.00	1.70	85	70-130	
Trichloroethene	2.00	1.78	89	70-130	
Trichlorofluoromethane	2.00	2.06	103	60-140	
Vinyl chloride	2.00	2.06	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d

Lab ID: LCS 140-990/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.11	105	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.04	102	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19	110	70-130	
1,1,2-Trichloroethane	2.00	1.87	94	70-130	
1,1-Dichloroethane	2.00	1.73	86	70-130	
1,1-Dichloroethene	2.00	2.02	101	70-130	
1,2,4-Trichlorobenzene	2.00	2.49	124	60-140	
1,2,4-Trimethylbenzene	2.00	2.50	125	70-130	
1,2-Dibromoethane (EDB)	2.00	2.06	103	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59	129	60-140	
1,2-Dichlorobenzene	2.00	2.52	126	70-130	
1,2-Dichloroethane	2.00	1.93	96	70-130	
1,2-Dichloropropane	2.00	1.65	82	70-130	
1,3,5-Trimethylbenzene	2.00	2.33	116	70-130	
1,3-Butadiene	2.00	1.93	97	60-140	
1,3-Dichlorobenzene	2.00	2.50	125	70-130	
1,4-Dichlorobenzene	2.00	2.47	123	70-130	
1,4-Dioxane	2.00	1.49	75	60-140	
2,2,4-Trimethylpentane	2.00	1.42	71	70-130	
2,3-Dimethylpentane	2.00	1.63	82	20-180	
2-Butanone (MEK)	2.00	1.47	73	60-140	
2-Hexanone	2.00	1.41	70	60-140	
2-Methylbutane	2.00	1.88	94	70-130	
2-Methylpentane	2.00	1.24	62	20-180	
4-Ethyltoluene	2.00	2.31	116	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.15	58	60-140	*
Acetone	2.00	1.82 J	91	60-140	
Benzene	2.00	1.80	90	70-130	
Benzyl chloride	2.00	2.40	120	70-130	
Bromodichloromethane	2.00	1.99	99	70-130	
Bromoform	2.00	2.76	138	60-140	
Bromomethane	2.00	2.33	116	70-130	
Carbon disulfide	2.00	1.83	91	70-130	
Carbon tetrachloride	2.00	2.36	118	70-130	
Chlorobenzene	2.00	2.17	109	70-130	
Chloroethane	2.00	2.15	107	70-130	
Chloroform	2.00	1.95	98	70-130	
Chloromethane	2.00	1.78	89	60-140	
cis-1,2-Dichloroethene	2.00	1.82	91	70-130	
cis-1,3-Dichloropropene	2.00	1.87	94	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d

Lab ID: LCS 140-990/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.62	81	70-130	
Dibromochloromethane	2.00	2.34	117	70-130	
Dichlorodifluoromethane	2.00	2.25	113	60-140	
Ethanol	10.0	8.52	85	20-180	
Ethylbenzene	2.00	2.07	104	70-130	
Heptane	2.00	1.64	82	70-130	
Hexachlorobutadiene	2.00	2.94	147	60-140	*
Hexane	2.00	1.45	73	70-130	
Indane	2.00	2.40	120	20-180	
Indene	2.00	2.51	126	20-180	
Isopropyl alcohol	2.00	1.79	90	60-140	
Methyl tert-butyl ether	2.00	1.99	100	60-140	
Methylene Chloride	2.00	1.92	96	70-130	
m-Xylene & p-Xylene	4.00	4.51	113	70-130	
Naphthalene	2.00	2.46	123	40-140	
o-Xylene	2.00	2.15	107	70-130	
Propene	2.00	1.34	67	60-140	
Styrene	2.00	2.31	115	70-130	
Tetrachloroethene	2.00	2.03	102	70-130	
Tetrahydrofuran	2.00	1.23	61	60-140	
Thiophene	2.00	1.78	89	20-180	
Toluene	2.00	1.95	98	70-130	
trans-1,2-Dichloroethene	2.00	1.93	96	70-130	
trans-1,3-Dichloropropene	2.00	1.86	93	70-130	
Trichloroethene	2.00	1.91	96	70-130	
Trichlorofluoromethane	2.00	2.60	130	60-140	
Vinyl chloride	2.00	2.12	106	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: EMBC17.D Lab Sample ID: MB 140-967/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/17/2014 17:11

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014 14:10
PCV-IA1-B7	140-1060-1	EC17POS114.D	03/18/2014 03:47
PCV-IA2-B4	140-1060-2	EC17POS115.D	03/18/2014 04:33

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: MB200mL.D Lab Sample ID: MB 140-977/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/20/2014 15:46

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-977/1002	ECCVC20-LCS .d	03/20/2014 13:10
PCV-IA1-B6	140-1060-3	EC20P101.D	03/20/2014 16:31
PCV-IA2-B6	140-1060-4	EC20P102.D	03/20/2014 17:15
PCV-IA1-B15	140-1060-5	EC20P103.D	03/20/2014 18:00
PCV-IA2-B15	140-1060-6	EC20P104.D	03/20/2014 18:46
PCV-IA3-B15	140-1060-7	EC20P105.D	03/20/2014 19:31
PCV-AMB7	140-1060-8	EC20P106.D	03/20/2014 20:16
PCV-IA1-B17	140-1060-9	EC20P107.D	03/20/2014 21:00
PCV-IA2-B17	140-1060-10	EC20P108.D	03/20/2014 21:45
PCV-IA3FD-B17	140-1060-11	EC20P109.D	03/20/2014 22:30
PCV-IA3-B17	140-1060-12	EC20P110.D	03/20/2014 23:16
PCV-IA4-B17	140-1060-13	EC20P111.D	03/21/2014 00:01
PCV-IA5-B17	140-1060-14	EC20P112.D	03/21/2014 00:47
PCV-IA1-B9	140-1060-15	EC20P113.D	03/21/2014 01:33
PCV-IA1FD-B9	140-1060-16	EC20P114.D	03/21/2014 02:19
PCV-IA2-B9	140-1060-17	EC20P115.D	03/21/2014 03:04
PCV-IA1-B8	140-1060-18	EC20P201.D	03/21/2014 04:33
PCV-IA1FD-B8	140-1060-19	EC20P202.D	03/21/2014 05:18
PCV-IA2-B8	140-1060-20	EC20P203.D	03/21/2014 06:03

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: 140-1086-a-9-MB.d Lab Sample ID: MB 140-990/1005

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/24/2014 11:45

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-990/1002	ECCVC24-LCS .d	03/24/2014 09:15
PCV-IA1FD-B9 DL	140-1060-16 DL	EC24P109.D	03/24/2014 17:39
PCV-IA1-B8 DL	140-1060-18 DL	EC24P110.D	03/24/2014 18:24
PCV-IA1FD-B8 DL	140-1060-19 DL	EC24P111.D	03/24/2014 19:08
PCV-IA2-B20 DL	140-1060-22 DL	EC24P112.D	03/24/2014 19:53

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: 200BLK.D Lab Sample ID: MB 140-984/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MJ Date Analyzed: 03/21/2014 14:39

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PCV-IA1-B20	140-1060-21	JC21P102.D	03/21/2014 16:26
PCV-IA2-B20	140-1060-22	JC21P103.D	03/21/2014 17:20
PCV-IA3-B20	140-1060-23	JC21P104.D	03/21/2014 18:13
PCV-AMB-8	140-1060-24	JC21P105.D	03/21/2014 19:07
PCV-IA1-B9 DL	140-1060-15 DL	JC21P106.D	03/21/2014 20:00

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: EBFBC17.D BFB Injection Date: 03/17/2014

Instrument ID: ME BFB Injection Time: 13:39

Analysis Batch No.: 967

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	56.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.3)1
176	95.0 - 101.0 % of mass 174	79.2	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-967/2	ECCVC17.D	03/17/2014	14:10
	LCS 140-967/1002	ECCVC17-LCS.d	03/17/2014	14:10
	MB 140-967/5	EMBC17.D	03/17/2014	17:11
PCV-IA1-B7	140-1060-1	EC17POS114.D	03/18/2014	03:47
PCV-IA2-B4	140-1060-2	EC17POS115.D	03/18/2014	04:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: EBFBC20.D BFB Injection Date: 03/20/2014

Instrument ID: ME BFB Injection Time: 12:40

Analysis Batch No.: 977

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	93.8	
175	5.0 - 9.0 % of mass 174	7.0	(7.5)1
176	95.0 - 101.0 % of mass 174	90.4	(96.3)1
177	5.0 - 9.0 % of mass 176	6.4	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-977/2	ECCVC20.D	03/20/2014	13:10
	LCS 140-977/1002	ECCVC20-LCS.d	03/20/2014	13:10
	MB 140-977/4	MB200mL.D	03/20/2014	15:46
PCV-IA1-B6	140-1060-3	EC20P101.D	03/20/2014	16:31
PCV-IA2-B6	140-1060-4	EC20P102.D	03/20/2014	17:15
PCV-IA1-B15	140-1060-5	EC20P103.D	03/20/2014	18:00
PCV-IA2-B15	140-1060-6	EC20P104.D	03/20/2014	18:46
PCV-IA3-B15	140-1060-7	EC20P105.D	03/20/2014	19:31
PCV-AMB7	140-1060-8	EC20P106.D	03/20/2014	20:16
PCV-IA1-B17	140-1060-9	EC20P107.D	03/20/2014	21:00
PCV-IA2-B17	140-1060-10	EC20P108.D	03/20/2014	21:45
PCV-IA3FD-B17	140-1060-11	EC20P109.D	03/20/2014	22:30
PCV-IA3-B17	140-1060-12	EC20P110.D	03/20/2014	23:16
PCV-IA4-B17	140-1060-13	EC20P111.D	03/21/2014	00:01
PCV-IA5-B17	140-1060-14	EC20P112.D	03/21/2014	00:47
PCV-IA1-B9	140-1060-15	EC20P113.D	03/21/2014	01:33
PCV-IA1FD-B9	140-1060-16	EC20P114.D	03/21/2014	02:19
PCV-IA2-B9	140-1060-17	EC20P115.D	03/21/2014	03:04
PCV-IA1-B8	140-1060-18	EC20P201.D	03/21/2014	04:33
PCV-IA1FD-B8	140-1060-19	EC20P202.D	03/21/2014	05:18
PCV-IA2-B8	140-1060-20	EC20P203.D	03/21/2014	06:03

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: EBFBC24.D BFB Injection Date: 03/24/2014

Instrument ID: ME BFB Injection Time: 08:44

Analysis Batch No.: 990

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.7	(0.7)1
174	50.0 - 120.00 % of mass 95	98.3	
175	5.0 - 9.0 % of mass 174	7.5	(7.7)1
176	95.0 - 101.0 % of mass 174	95.6	(97.3)1
177	5.0 - 9.0 % of mass 176	6.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-990/2	ECCVC24.D	03/24/2014	09:15
	LCS 140-990/1002	ECCVC24-LCS.d	03/24/2014	09:15
	MB 140-990/1005	140-1086-a-9-MB.d	03/24/2014	11:45
PCV-IA1FD-B9 DL	140-1060-16 DL	EC24P109.D	03/24/2014	17:39
PCV-IA1-B8 DL	140-1060-18 DL	EC24P110.D	03/24/2014	18:24
PCV-IA1FD-B8 DL	140-1060-19 DL	EC24P111.D	03/24/2014	19:08
PCV-IA2-B20 DL	140-1060-22 DL	EC24P112.D	03/24/2014	19:53

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: JBFBC11.D BFB Injection Date: 03/11/2014

Instrument ID: MJ BFB Injection Time: 12:12

Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	111.2	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	108.1	(97.2)1
177	5.0 - 9.0 % of mass 176	7.2	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCSC11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab File ID: JBFBC21.D BFB Injection Date: 03/21/2014

Instrument ID: MJ BFB Injection Time: 11:03

Analysis Batch No.: 984

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	43.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.6	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	107.7	(97.4)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-984/2	JCCVC21.D	03/21/2014	11:30
	LCS 140-984/1002	JCCVC21-LCS.d	03/21/2014	11:30
	MB 140-984/5	200BLK.D	03/21/2014	14:39
PCV-IA1-B20	140-1060-21	JC21P102.D	03/21/2014	16:26
PCV-IA2-B20	140-1060-22	JC21P103.D	03/21/2014	17:20
PCV-IA3-B20	140-1060-23	JC21P104.D	03/21/2014	18:13
PCV-AMB-8	140-1060-24	JC21P105.D	03/21/2014	19:07
PCV-IA1-B9 DL	140-1060-15 DL	JC21P106.D	03/21/2014	20:00

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: CCVIS 140-967/2 Date Analyzed: 03/17/2014 14:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC17.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194987	8.34	948363	10.58	841452	15.39
UPPER LIMIT		272982	8.67	1327708	10.91	1178033	15.72
LOWER LIMIT		116992	8.01	569018	10.25	504871	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-967/1002		194987	8.34	948363	10.58	841452	15.39
MB 140-967/5		189632	8.33	941923	10.57	834864	15.38
140-1060-1	PCV-IA1-B7	202822	8.33	1022158	10.57	896601	15.38
140-1060-2	PCV-IA2-B4	204673	8.35	1034013	10.58	910003	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: CCVIS 140-977/2 Date Analyzed: 03/20/2014 13:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC20.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		289601	8.35	1358612	10.58	1179251	15.38
UPPER LIMIT		405441	8.68	1902057	10.91	1650951	15.71
LOWER LIMIT		173761	8.02	815167	10.25	707551	15.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-977/1002		289601	8.35	1358612	10.58	1179251	15.38
MB 140-977/4		315778	8.33	1564167	10.57	1386797	15.38
140-1060-3	PCV-IA1-B6	275140	8.33	1286337	10.57	1133307	15.38
140-1060-4	PCV-IA2-B6	330228	8.34	1677640	10.57	1454155	15.38
140-1060-5	PCV-IA1-B15	289604	8.33	1332497	10.57	1161031	15.38
140-1060-6	PCV-IA2-B15	340873	8.34	1681488	10.57	1465089	15.38
140-1060-7	PCV-IA3-B15	319188	8.33	1561735	10.57	1327746	15.38
140-1060-8	PCV-AMB7	261996	8.33	1205479	10.57	1013420	15.38
140-1060-9	PCV-IA1-B17	273635	8.33	1223429	10.57	1124200	15.38
140-1060-10	PCV-IA2-B17	264001	8.33	1170741	10.57	989873	15.38
140-1060-11	PCV-IA3FD-B17	290349	8.33	1339510	10.57	1103276	15.38
140-1060-12	PCV-IA3-B17	255195	8.33	1112080	10.57	964698	15.38
140-1060-13	PCV-IA4-B17	303649	8.33	1485266	10.57	1265513	15.38
140-1060-14	PCV-IA5-B17	266274	8.33	1183778	10.57	1040863	15.38
140-1060-15	PCV-IA1-B9	270020	8.33	1229119	10.57	1056109	15.38
140-1060-16	PCV-IA1FD-B9	304517	8.33	1424160	10.57	1214669	15.38
140-1060-17	PCV-IA2-B9	252638	8.33	1146665	10.57	1008035	15.38
140-1060-18	PCV-IA1-B8	260421	8.33	1217725	10.57	1145319	15.38
140-1060-19	PCV-IA1FD-B8	273395	8.33	1327988	10.57	1237737	15.38
140-1060-20	PCV-IA2-B8	260702	8.33	1169948	10.57	1103565	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: CCVIS 140-990/2 Date Analyzed: 03/24/2014 09:15

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC24.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		302319	8.34	1502722	10.57	1339330	15.38
UPPER LIMIT		423247	8.67	2103811	10.90	1875062	15.71
LOWER LIMIT		181391	8.01	901633	10.24	803598	15.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-990/1002		302319	8.34	1502722	10.57	1339330	15.38
MB 140-990/1005		303416	8.33	1490673	10.57	1270564	15.38
140-1060-16 DL	PCV-IA1FD-B9 DL	260943	8.33	1246575	10.57	1105290	15.38
140-1060-18 DL	PCV-IA1-B8 DL	261890	8.33	1266855	10.57	1083570	15.38
140-1060-19 DL	PCV-IA1FD-B8 DL	241124	8.33	1109175	10.57	1019267	15.38
140-1060-22 DL	PCV-IA2-B20 DL	254255	8.33	1235281	10.57	1125112	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT		491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT		210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-946/14		326764	9.39	1541489	11.55	1315171	16.21

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Sample No.: CCVIS 140-984/2 Date Analyzed: 03/21/2014 11:30

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JCCVC21.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		348435	9.38	1618750	11.53	1362025	16.19
UPPER LIMIT		487809	9.71	2266250	11.86	1906835	16.52
LOWER LIMIT		209061	9.05	971250	11.20	817215	15.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-984/1002		348435	9.38	1618750	11.53	1362025	16.19
MB 140-984/5		375868	9.37	1755903	11.53	1341257	16.19
140-1060-21	PCV-IA1-B20	363306	9.37	1734595	11.53	1385459	16.20
140-1060-22	PCV-IA2-B20	366569	9.37	1745864	11.53	1407894	16.19
140-1060-23	PCV-IA3-B20	382763	9.38	1767509	11.53	1453805	16.19
140-1060-24	PCV-AMB-8	387010	9.38	1822955	11.53	1482996	16.19
140-1060-15 DL	PCV-IA1-B9 DL	308849	9.37	1484617	11.53	1283330	16.19

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.045	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.81		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.22	J	0.50	0.045
67-64-1	Acetone	58.08	2.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.65		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068
64-17-5	Ethanol	46.07	9.5		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.077	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.67	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.046	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.28		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.21	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.70	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.88	J	2.0	0.18
67-64-1	Acetone	58.08	6.7	J	12	3.3
71-43-2	Benzene	78.11	0.70		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	18		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.32	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.58	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.31	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B7 Lab Sample ID: 140-1060-1

Matrix: Air Lab File ID: EC17POS114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:50

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 03:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D
Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1
Client ID: PCV-IA1-B7
Sample Type: Client
Inject. Date: 18-Mar-2014 03:47:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-1
Misc. Info.: E031714,TO155,,140-0000525-019
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 12:31:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:31:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	202822	4.00	
*	2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	96	1022158	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	896601	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	806849	4.11	
	8 Dichlorodifluoromethane	85	3.362	3.357	0.005	100	41808	0.1863	
	9 Chloromethane	52	3.530	3.530	0.0	98	4680	0.2613	
	17 Ethanol	31	4.312	4.317	-0.005	98	77134	3.80	
	19 2-Methylbutane	43	4.533	4.538	-0.005	87	22981	0.3235	
	21 Trichlorofluoromethane	101	4.743	4.743	0.0	94	23769	0.1056	
	23 Acetone	58	4.878	4.878	0.0	91	34846	1.13	
	24 Isopropyl alcohol	45	4.975	4.970	0.005	68	21059	0.2663	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.606	0.005	68	3927	0.0282	
	31 Methylene Chloride	84	5.789	5.789	0.0	74	11838	0.2042	
	39 2-Butanone (MEK)	72	7.590	7.579	0.011	90	3165	0.0953	
	40 Hexane	56	7.585	7.585	0.0	67	3529	0.0654	
	48 Benzene	78	9.990	9.995	-0.005	92	18104	0.0880	
	50 Carbon tetrachloride	117	10.011	10.017	-0.006	88	5257	0.0266	
	53 Isooctane	57	10.782	10.783	0.0	64	5748	0.0181	
	54 n-Heptane	71	11.171	11.182	-0.011	60	2400	0.0308	
	62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	88	10443	0.0862	
	65 Toluene	91	13.398	13.403	-0.005	89	26882	0.1119	
	73 Tetrachloroethene	129	14.546	14.552	-0.006	67	1885	0.0184	

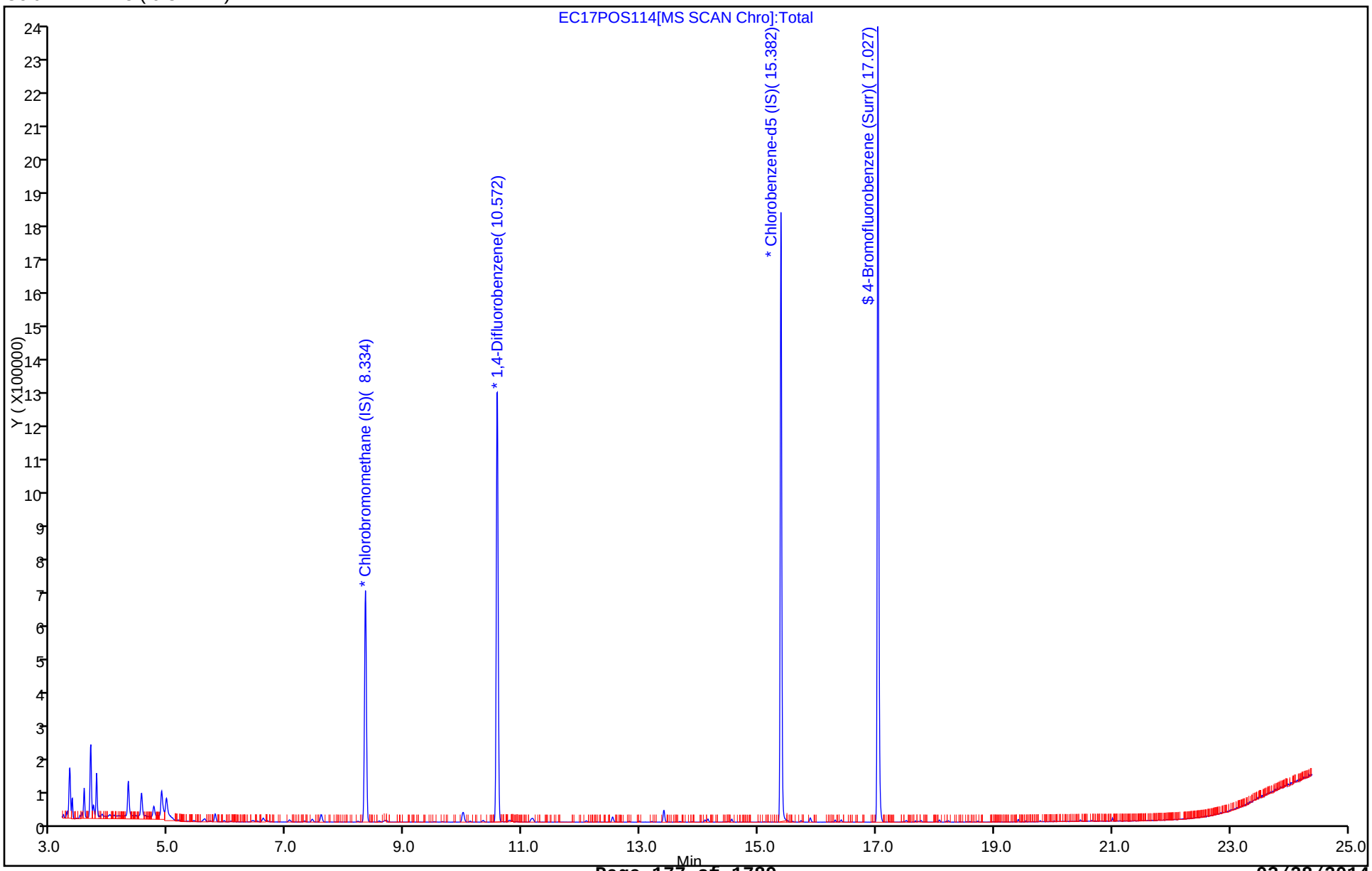
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1	Worklist Smp#:	19
Client ID:	PCV-IA1-B7				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



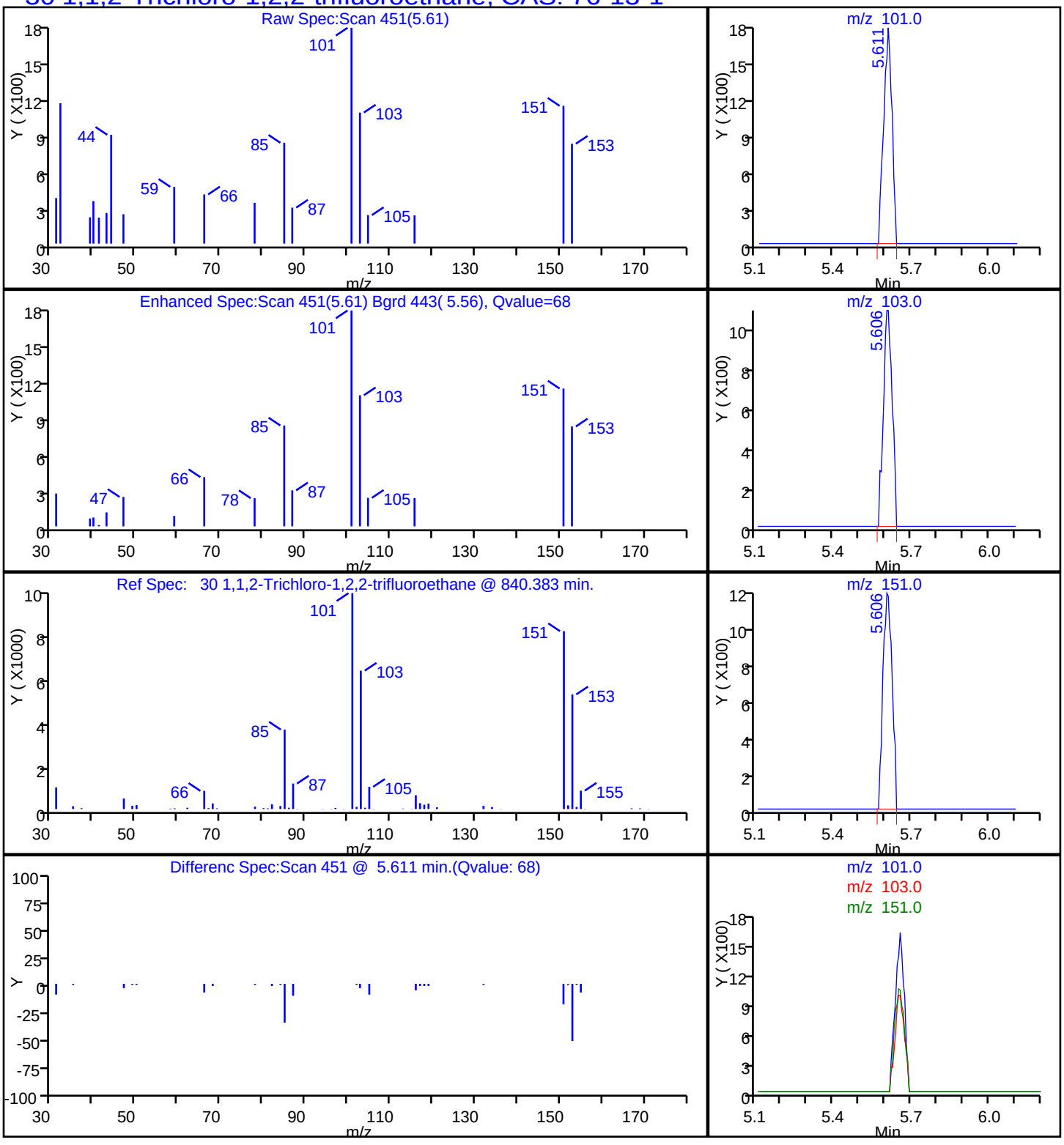
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date: 18-Mar-2014 03:47:30 Instrument ID: ME

Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1

Client ID: PCV-IA1-B7

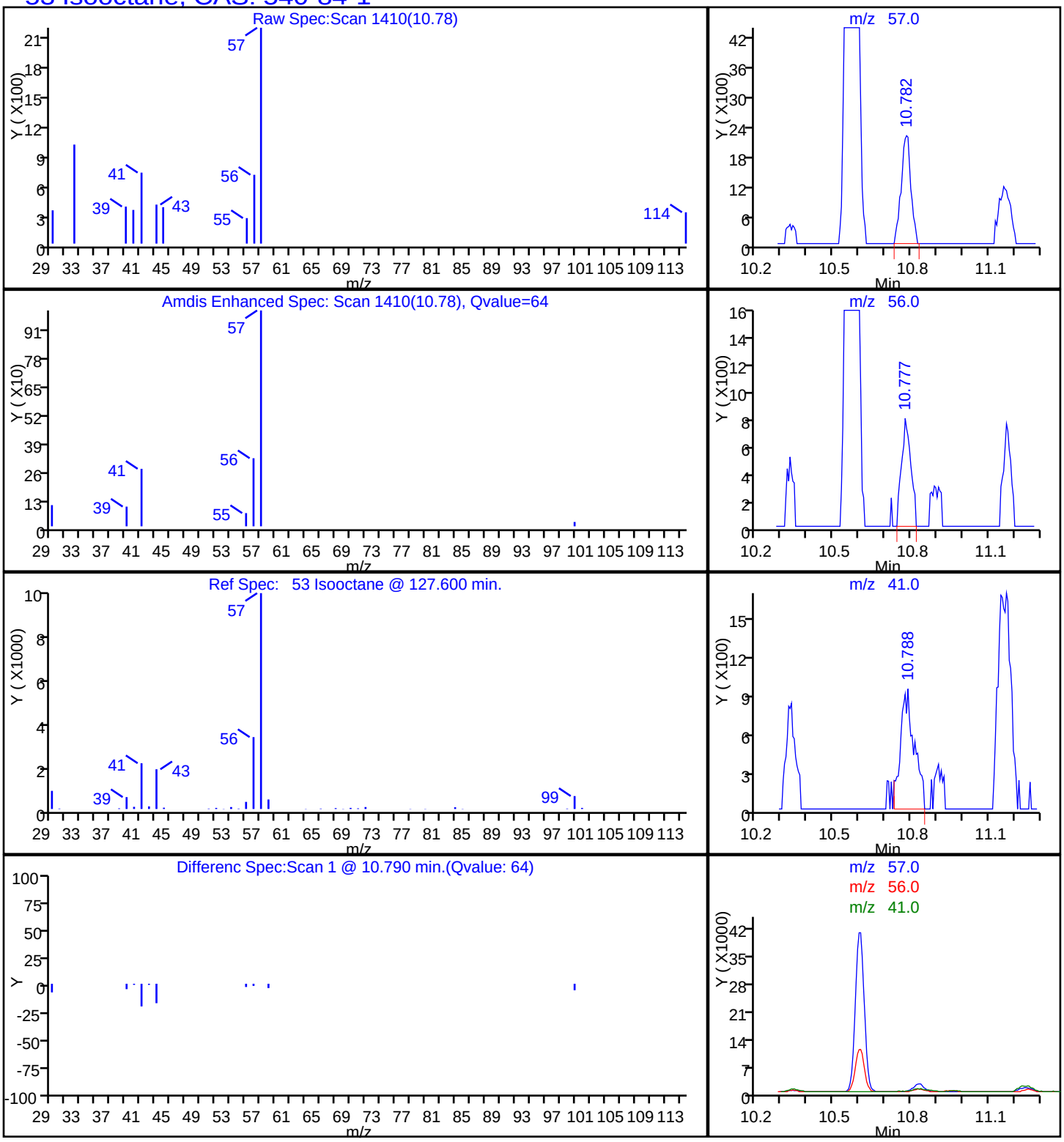
Operator ID: 060487 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date: 18-Mar-2014 03:47:30 Instrument ID: ME

Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1

Client ID: PCV-IA1-B7

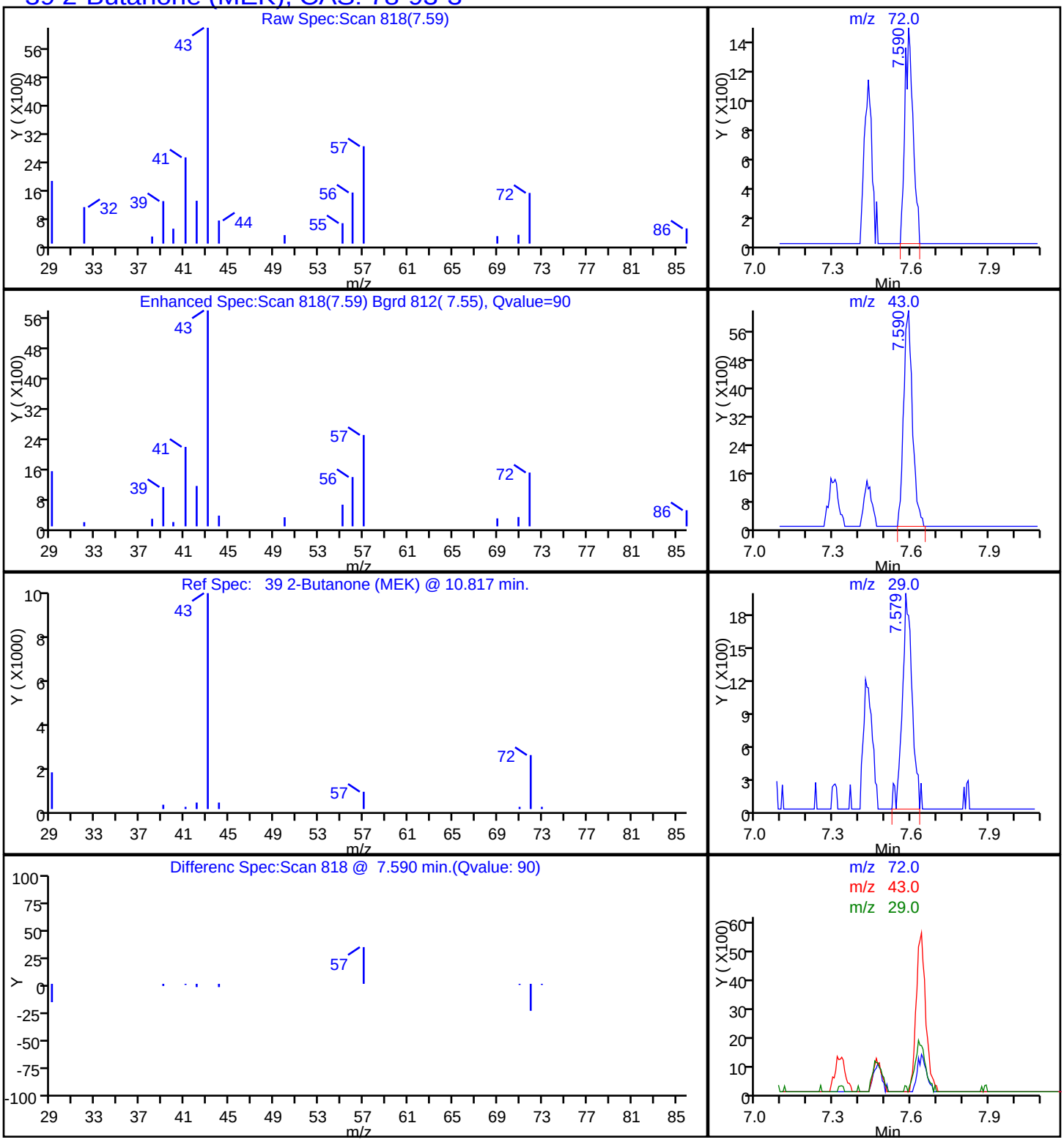
Operator ID: 060487 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



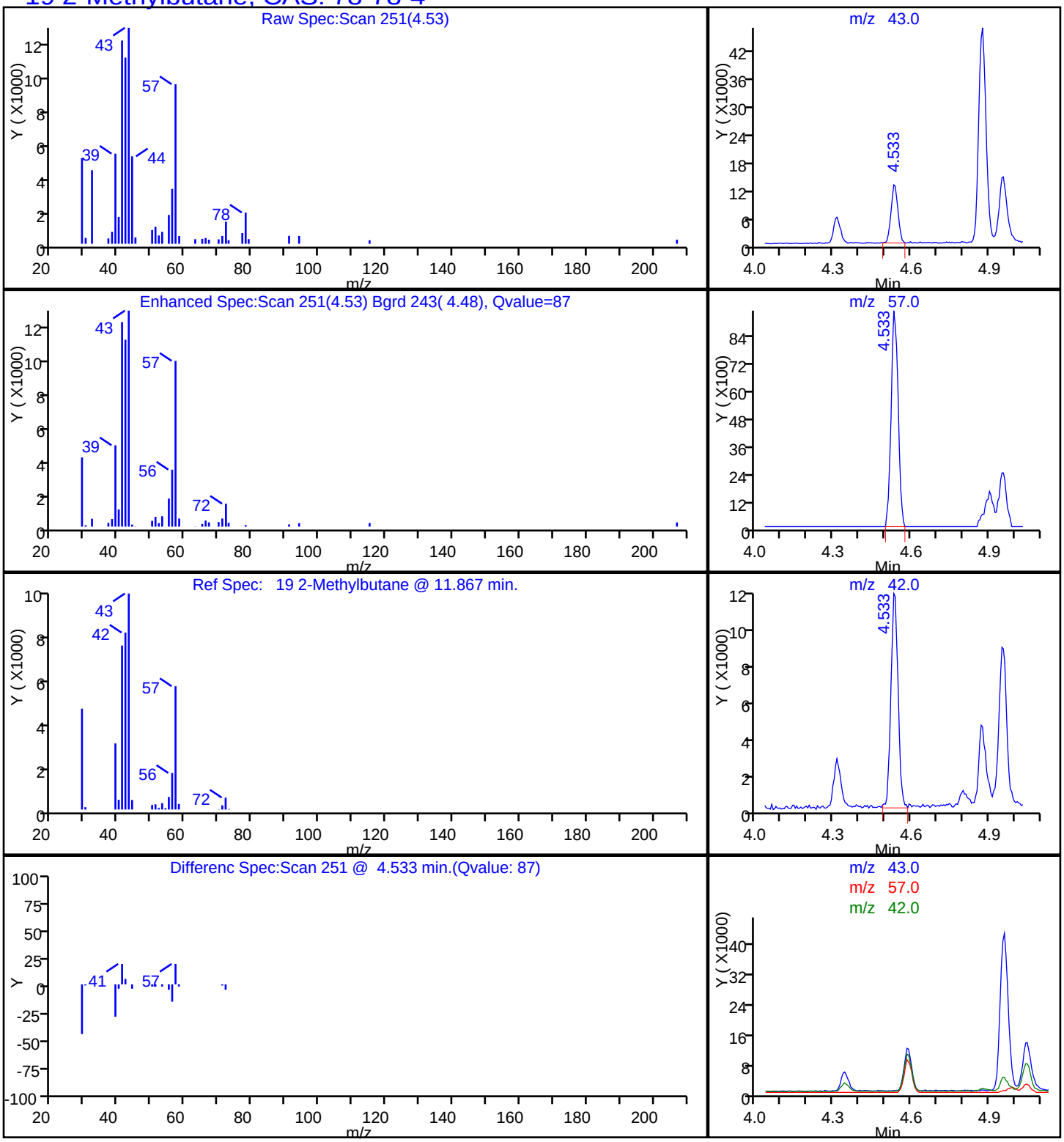
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

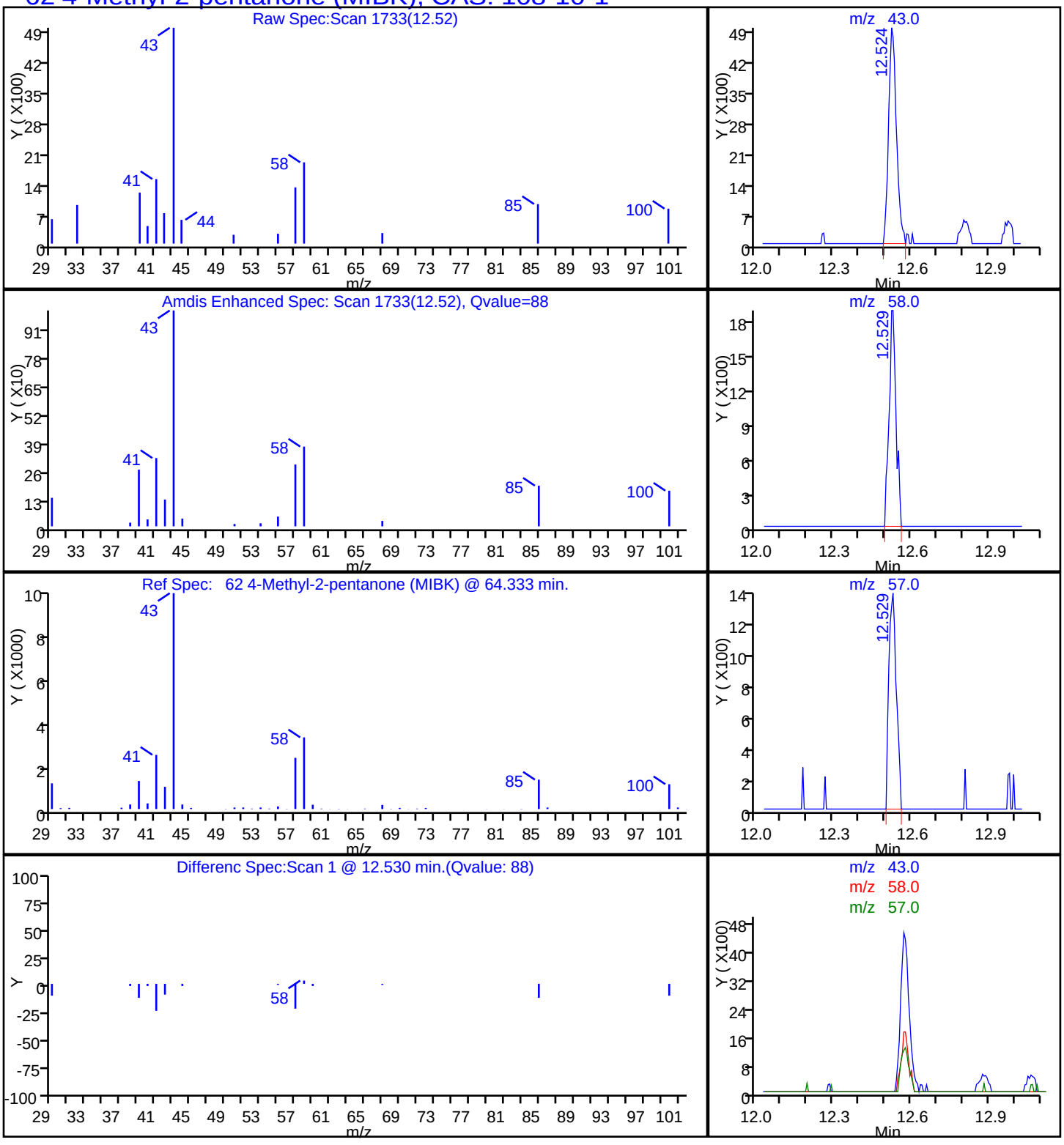
19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D				
Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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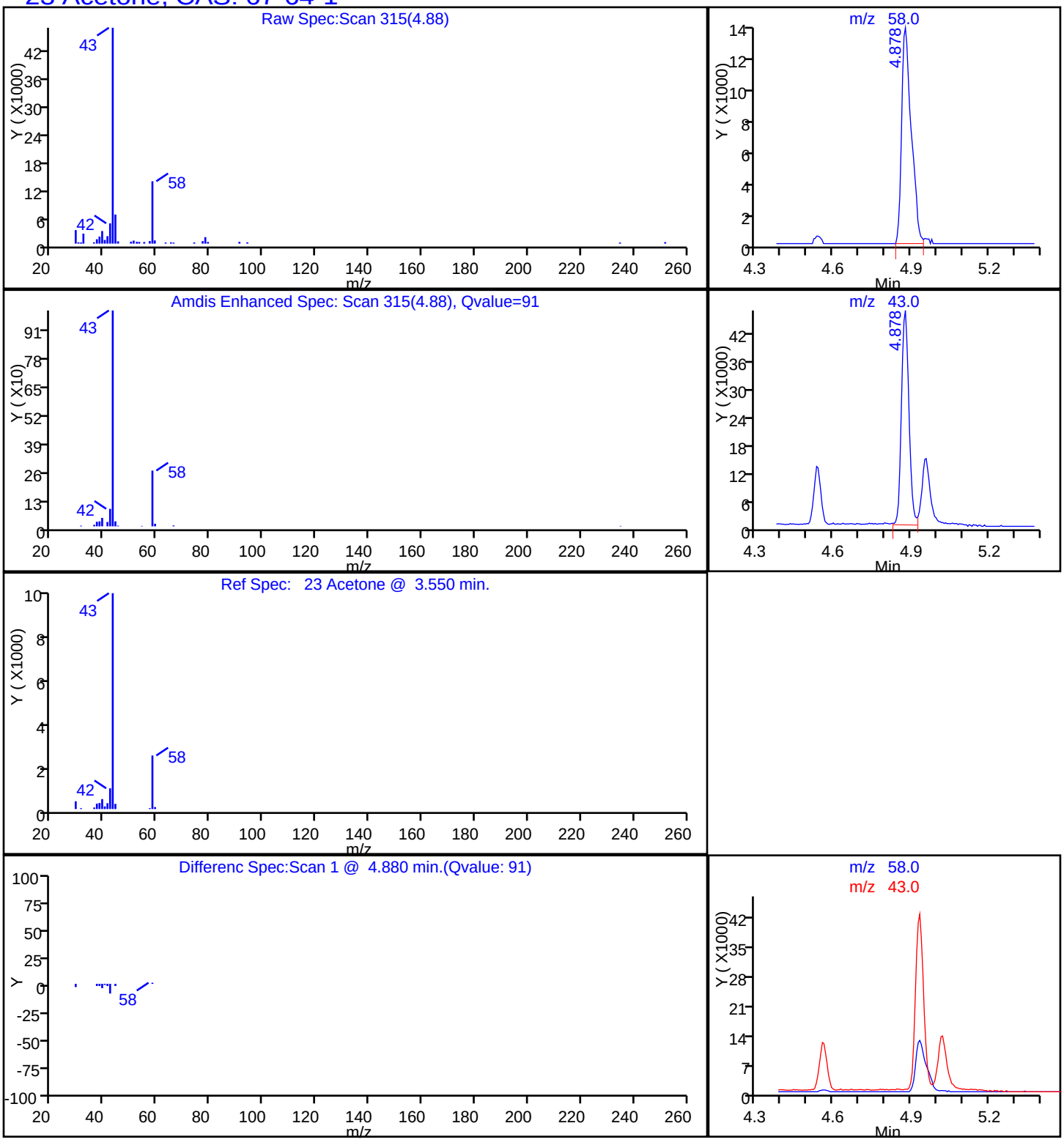
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D		
Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



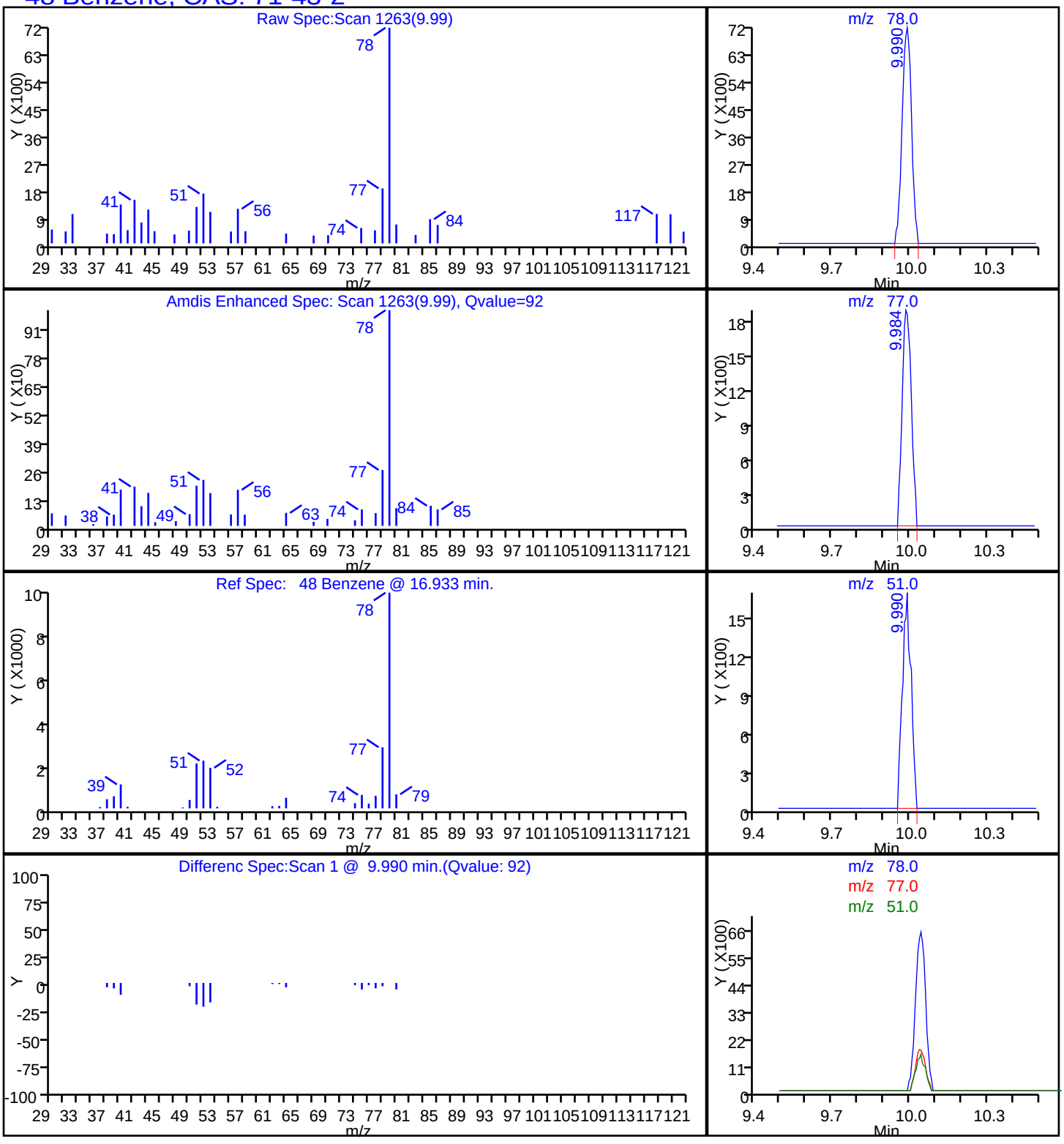
Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



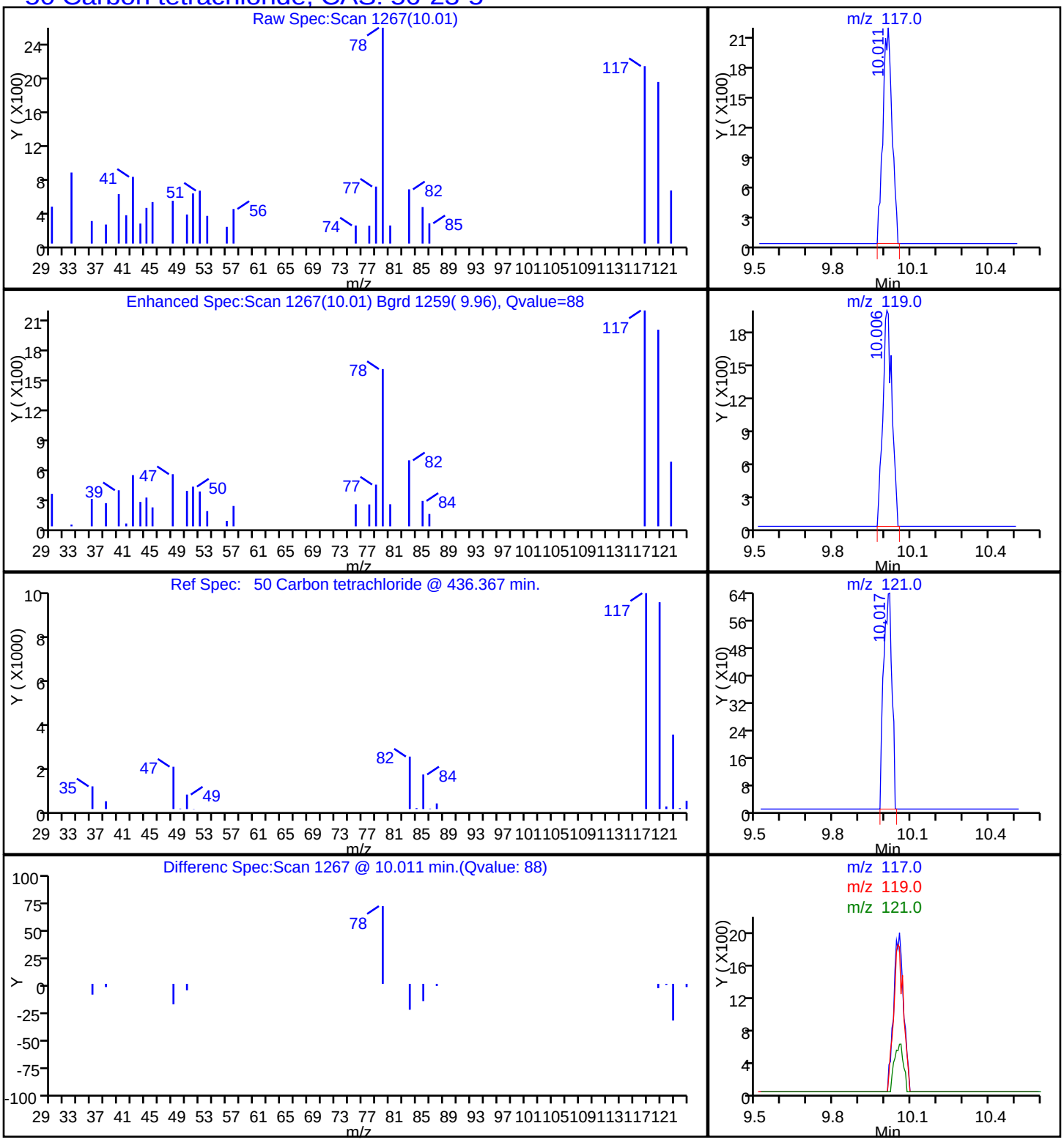
Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date: 18-Mar-2014 03:47:30 Instrument ID: ME

Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1

Client ID: PCV-IA1-B7

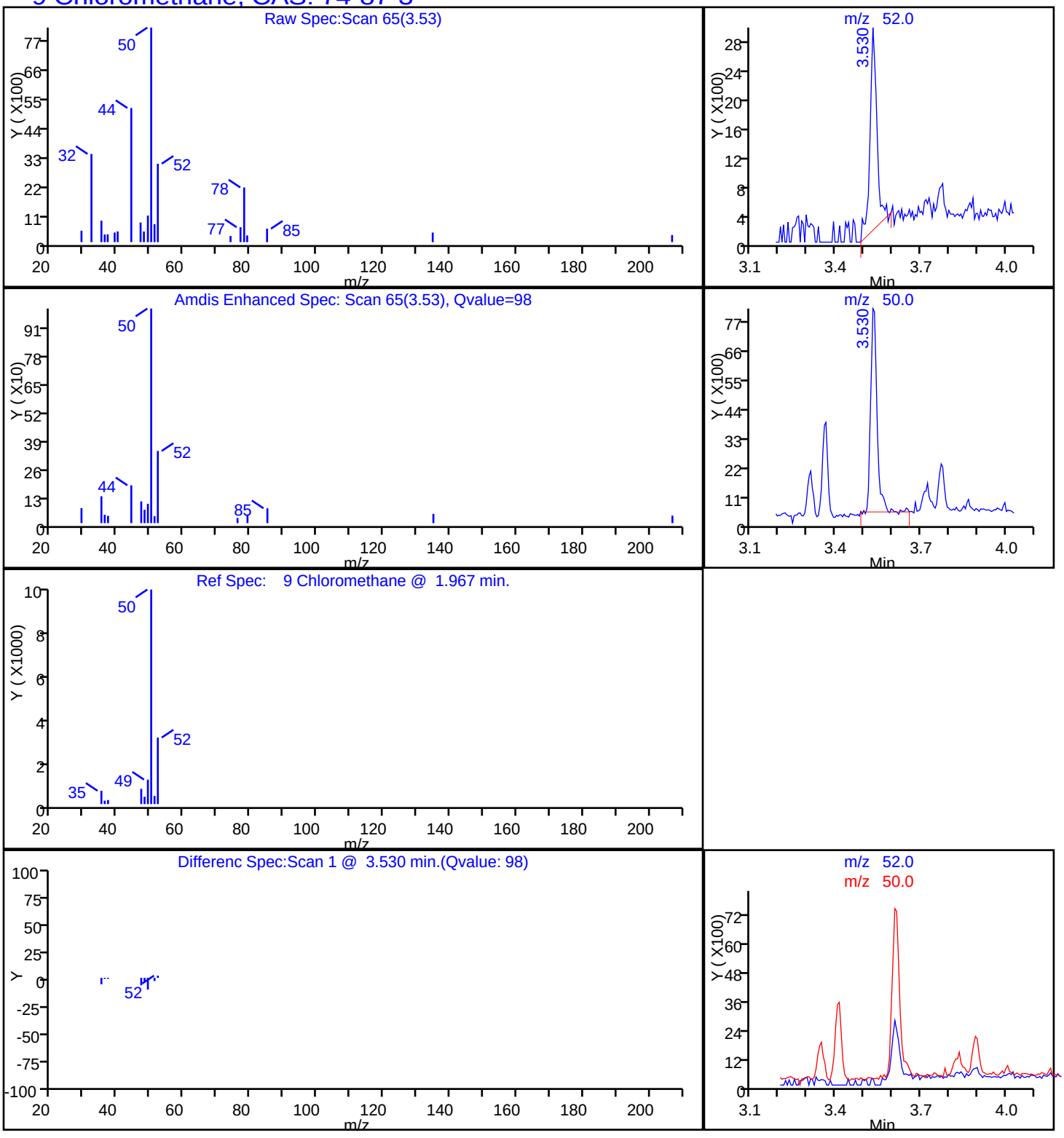
Operator ID: 060487 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

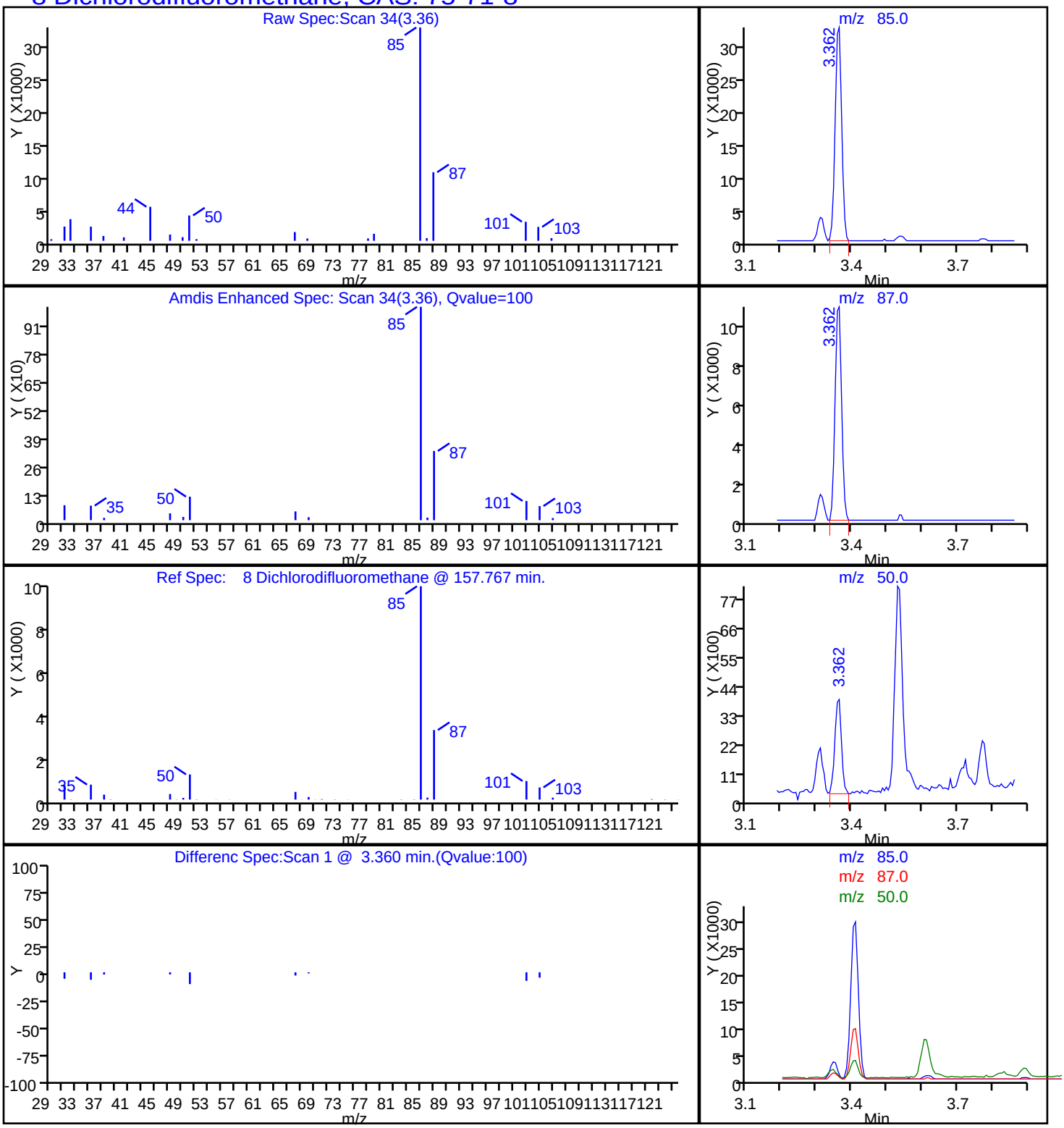
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D				
Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



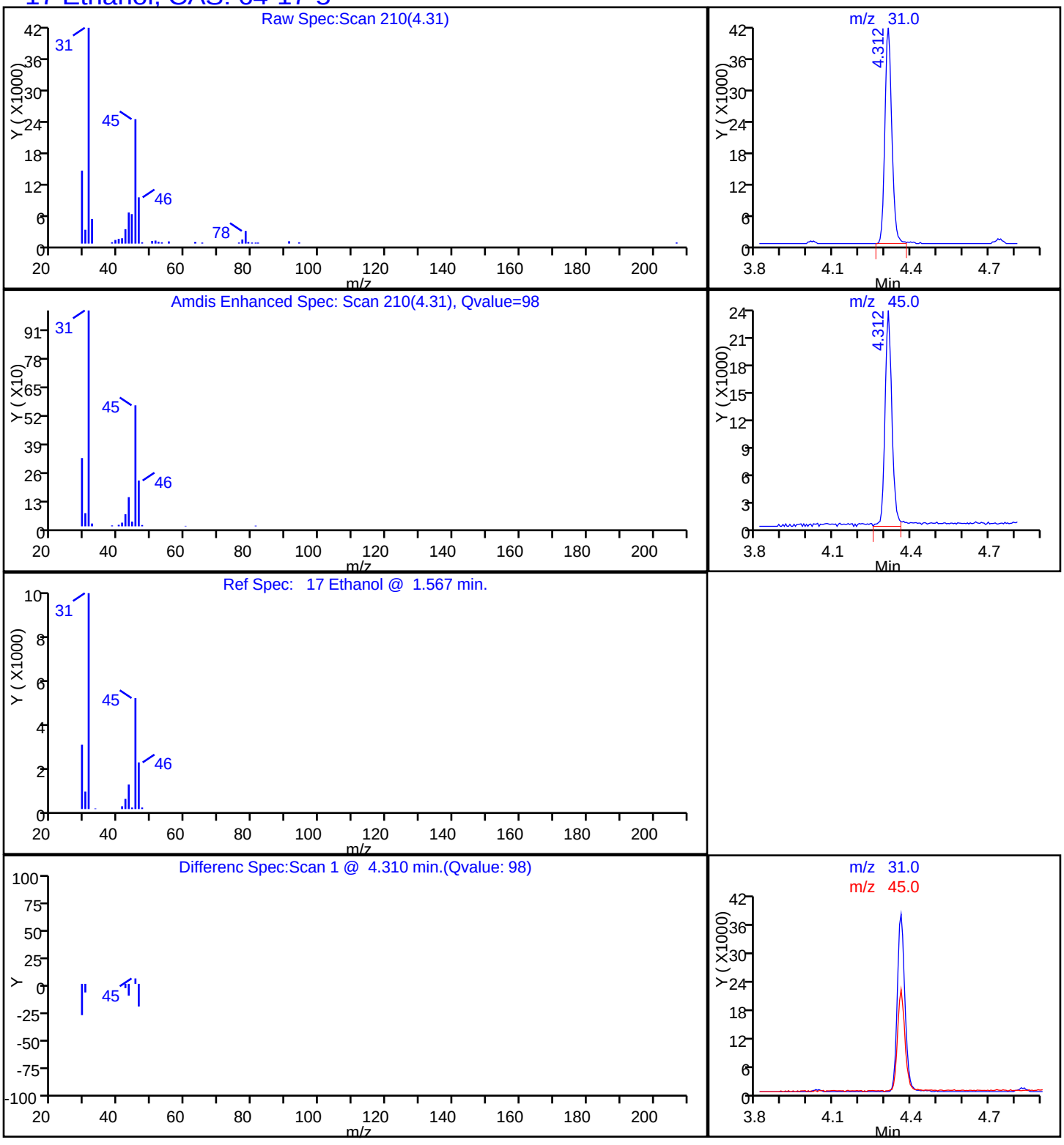
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



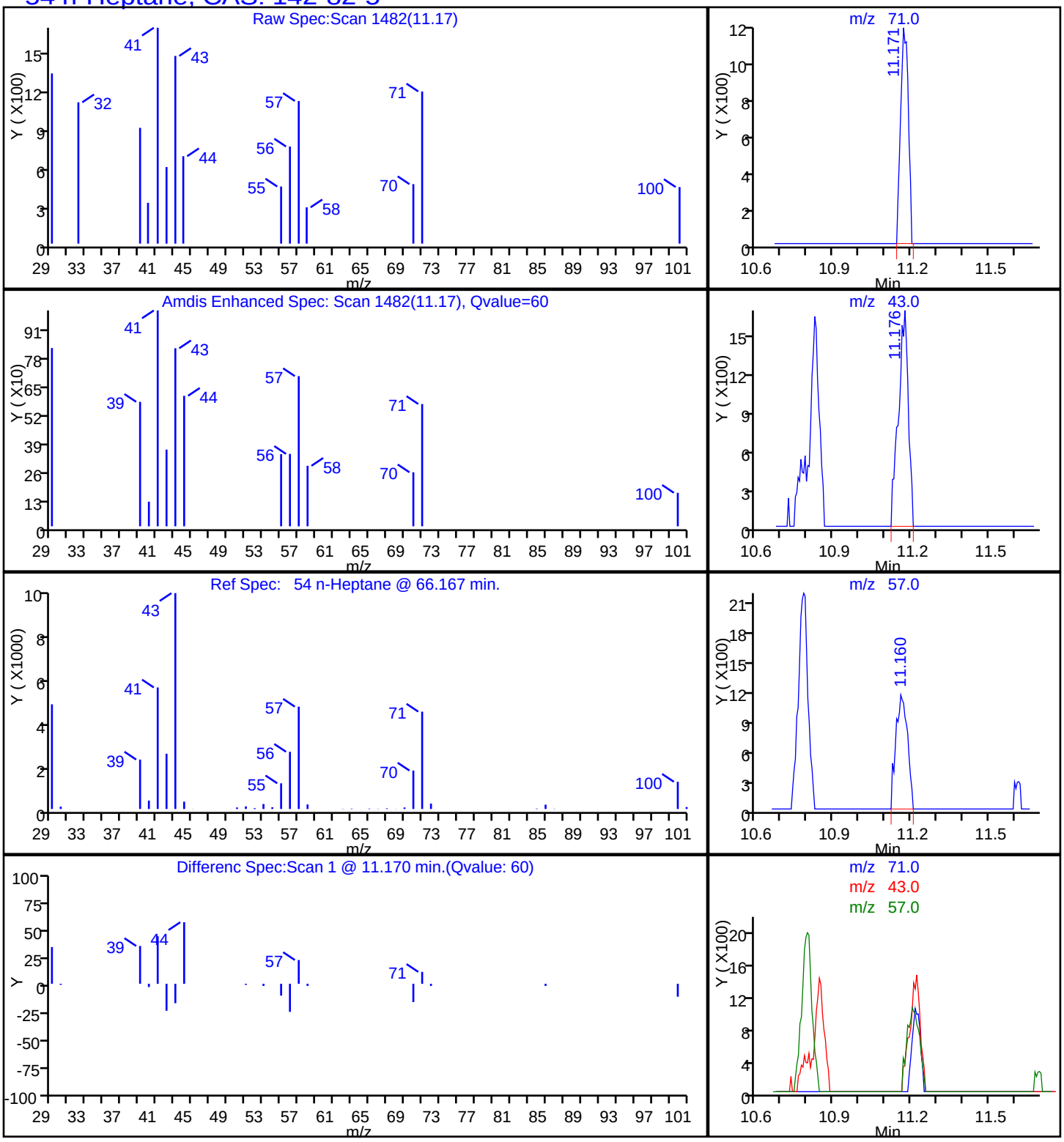
Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1
Client ID:	PCV-IA1-B7		
Operator ID:	060487	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



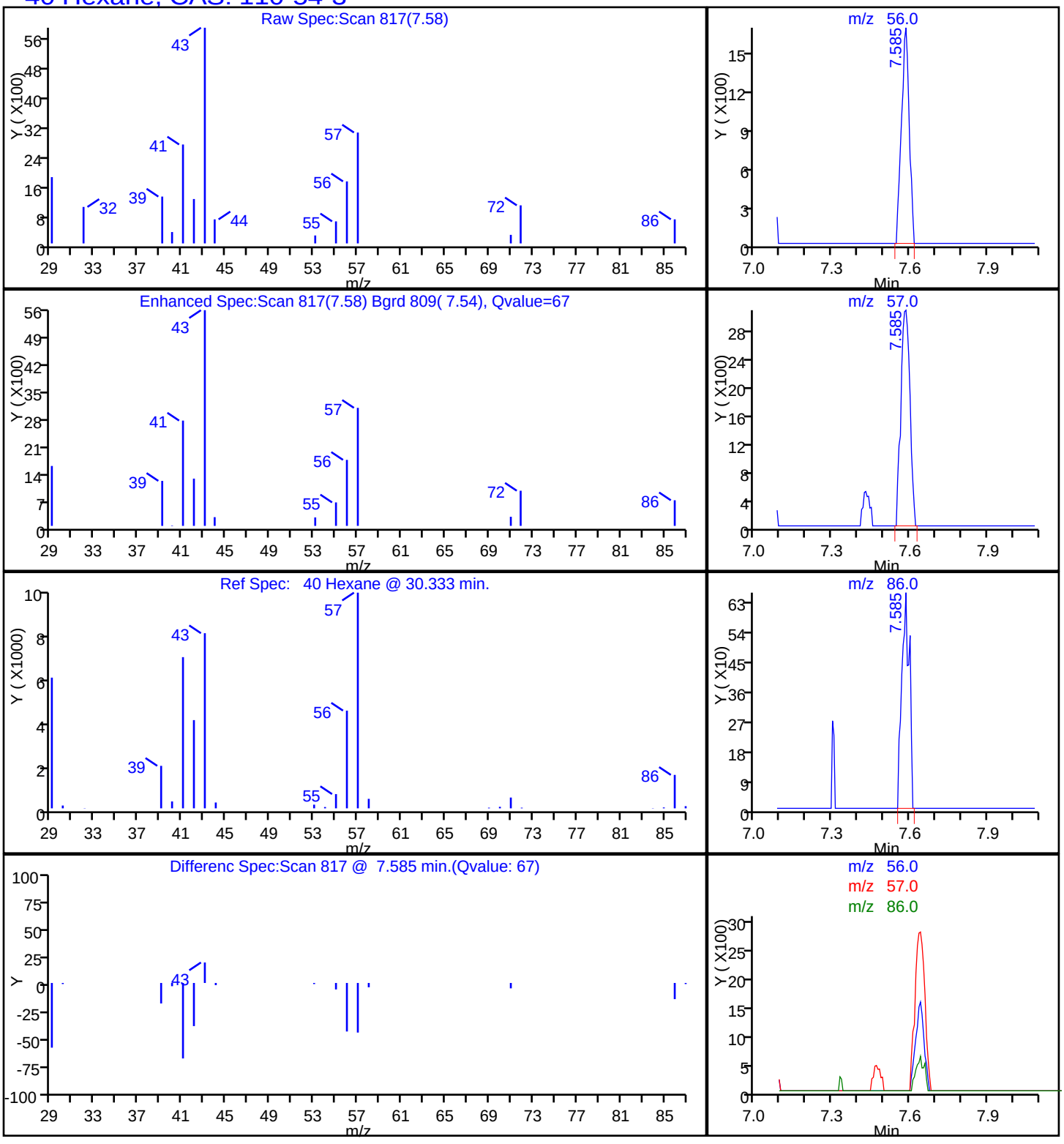
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



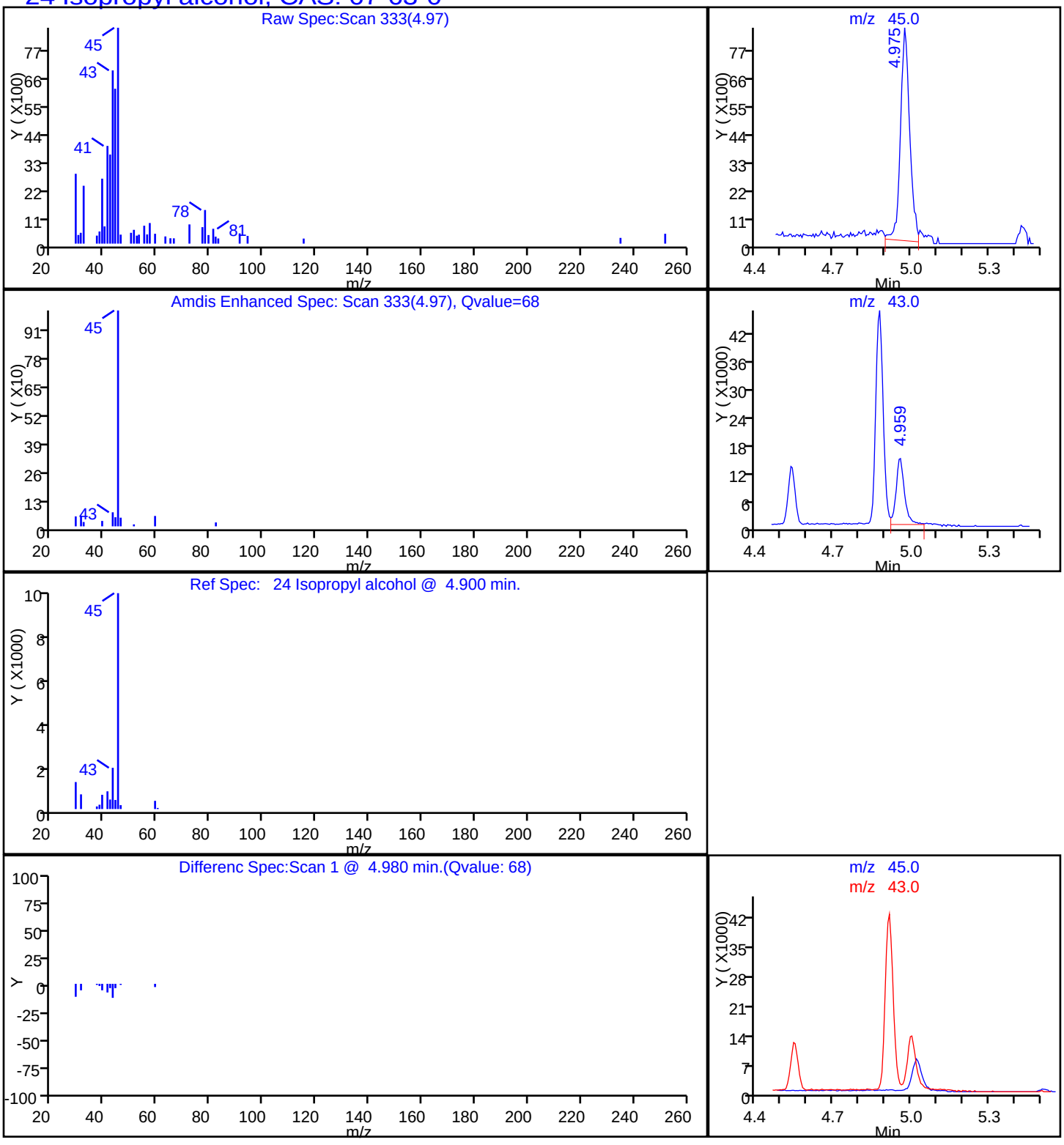
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date: 18-Mar-2014 03:47:30 Instrument ID: ME

Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1

Client ID: PCV-IA1-B7

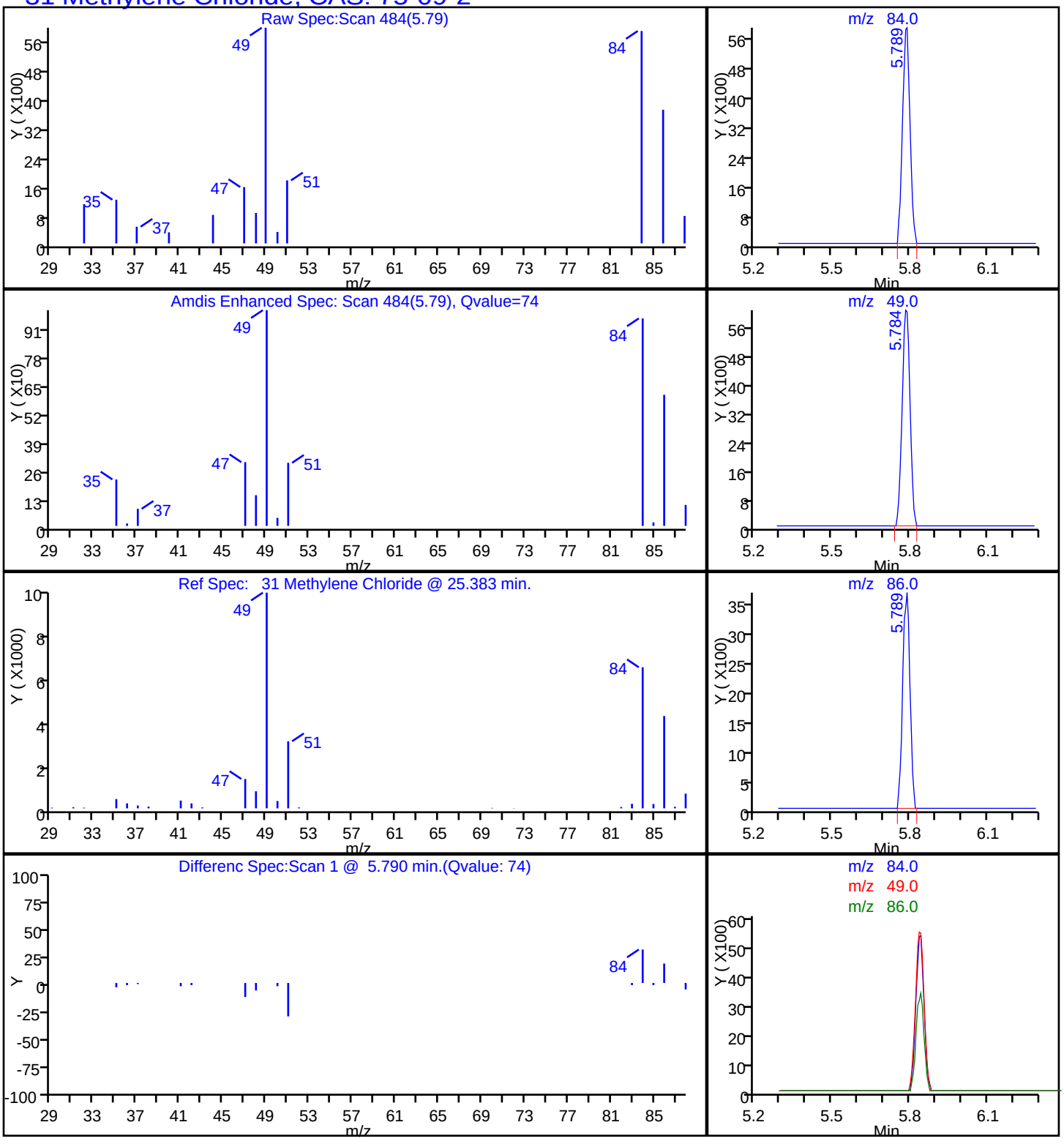
Operator ID: 060487 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date: 18-Mar-2014 03:47:30 Instrument ID: ME

Lims ID: 140-1060-A-1 Lab Sample ID: 140-1060-1

Client ID: PCV-IA1-B7

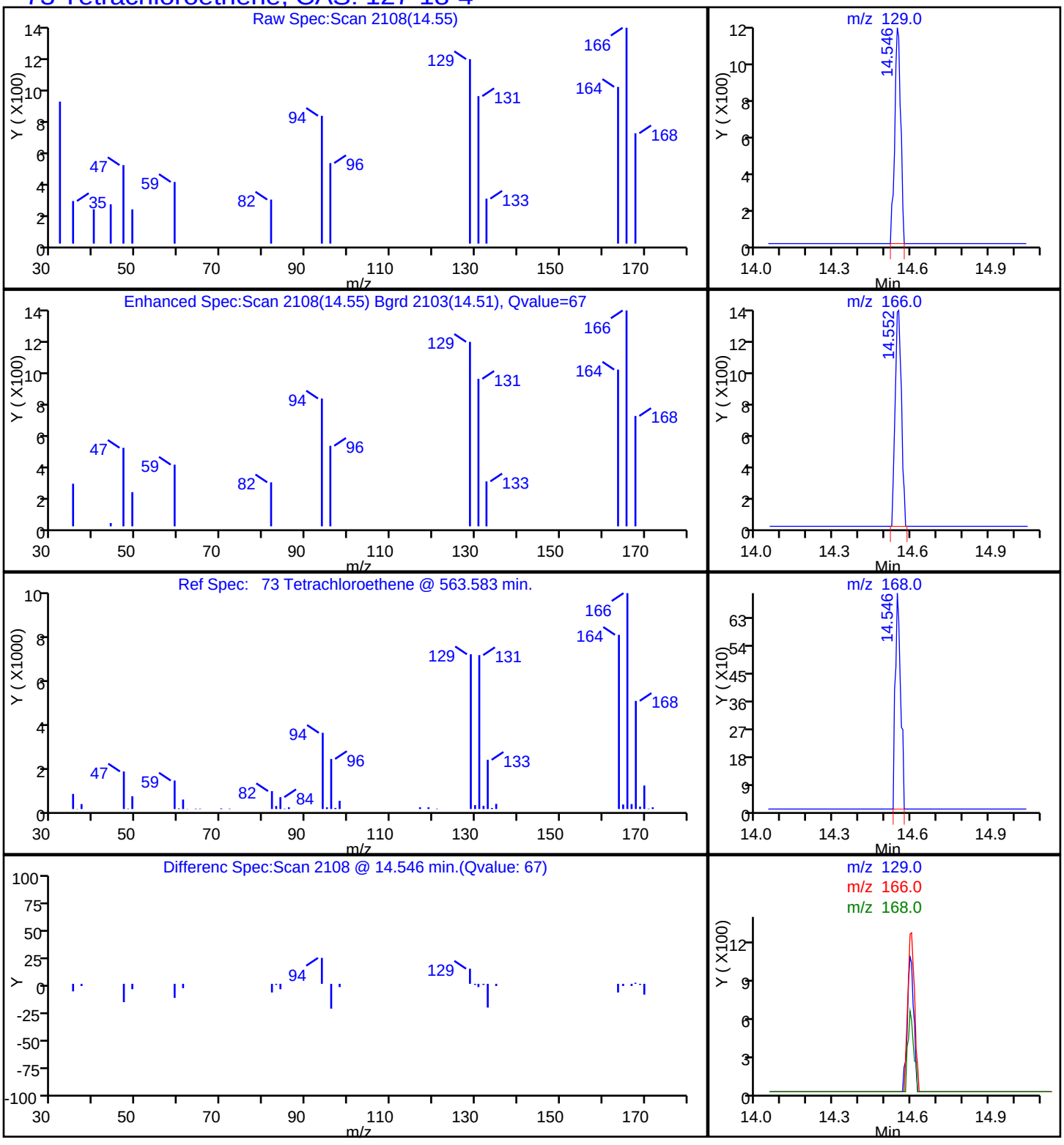
Operator ID: 060487 ALS Bottle#: 14 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

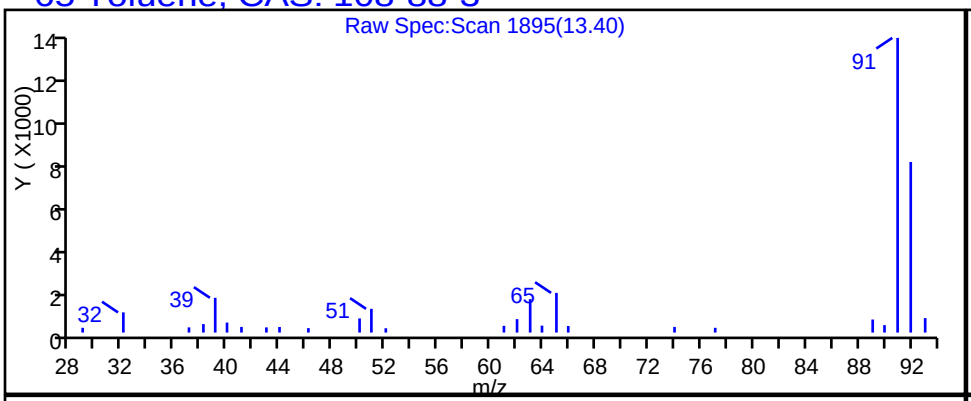


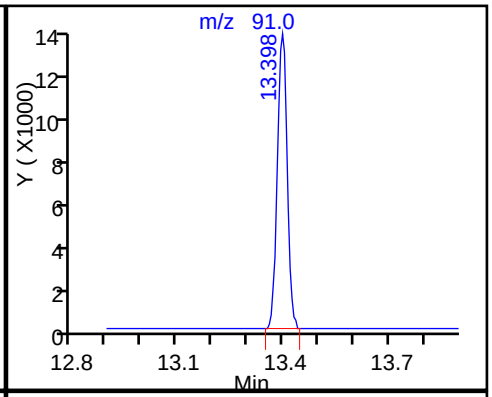
Report Date: 18-Mar-2014 12:31:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

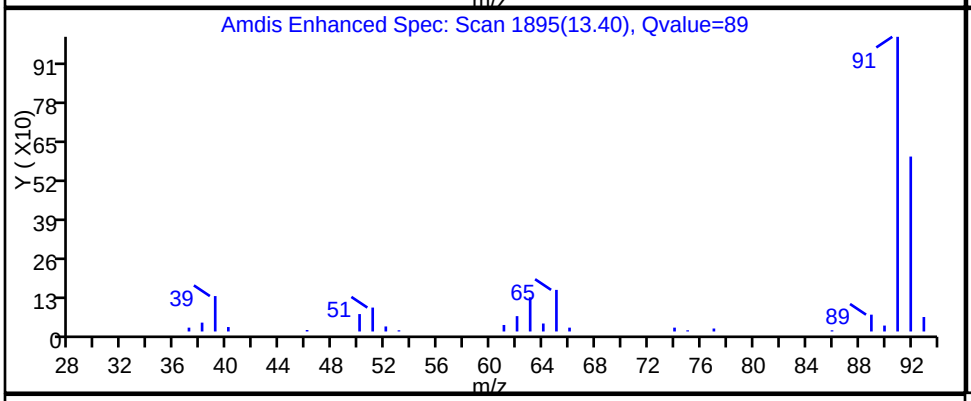
TestAmerica Knoxville

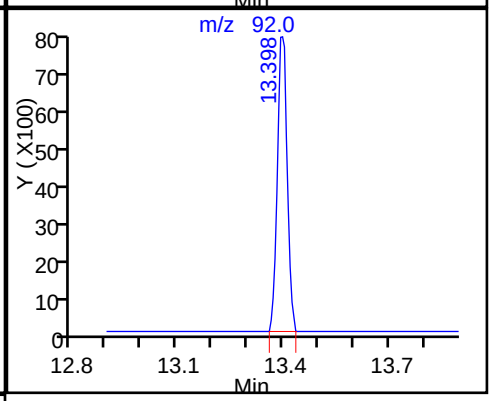
Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D				
Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

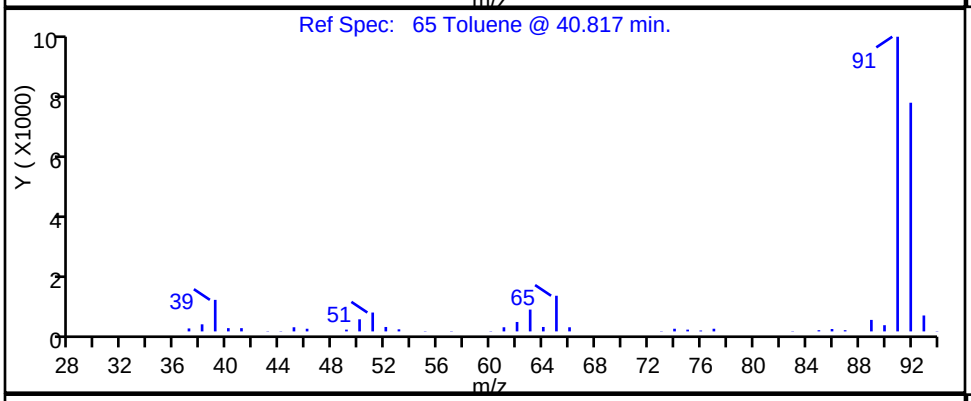
65 Toluene, CAS: 108-88-3

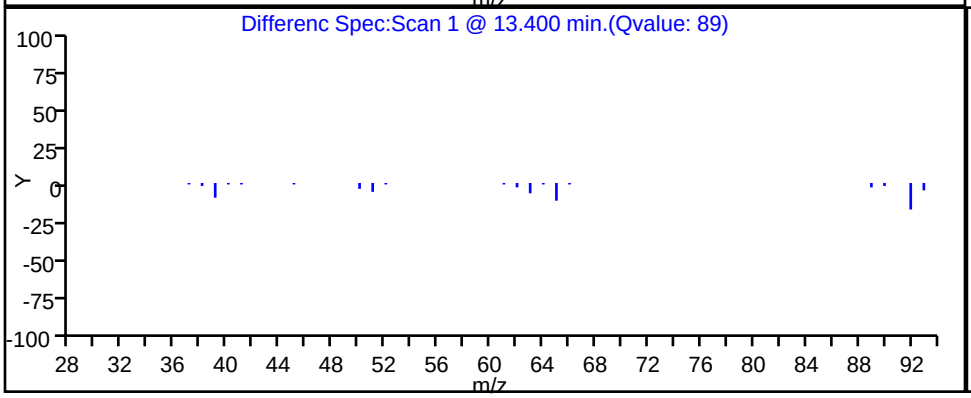


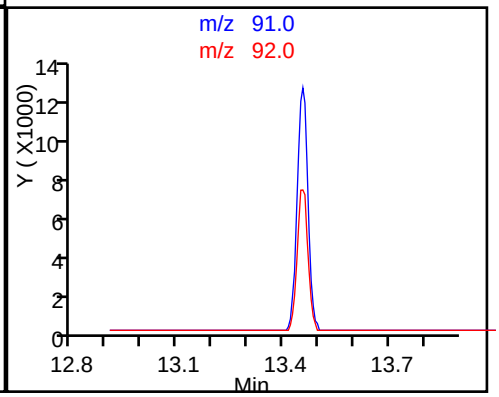












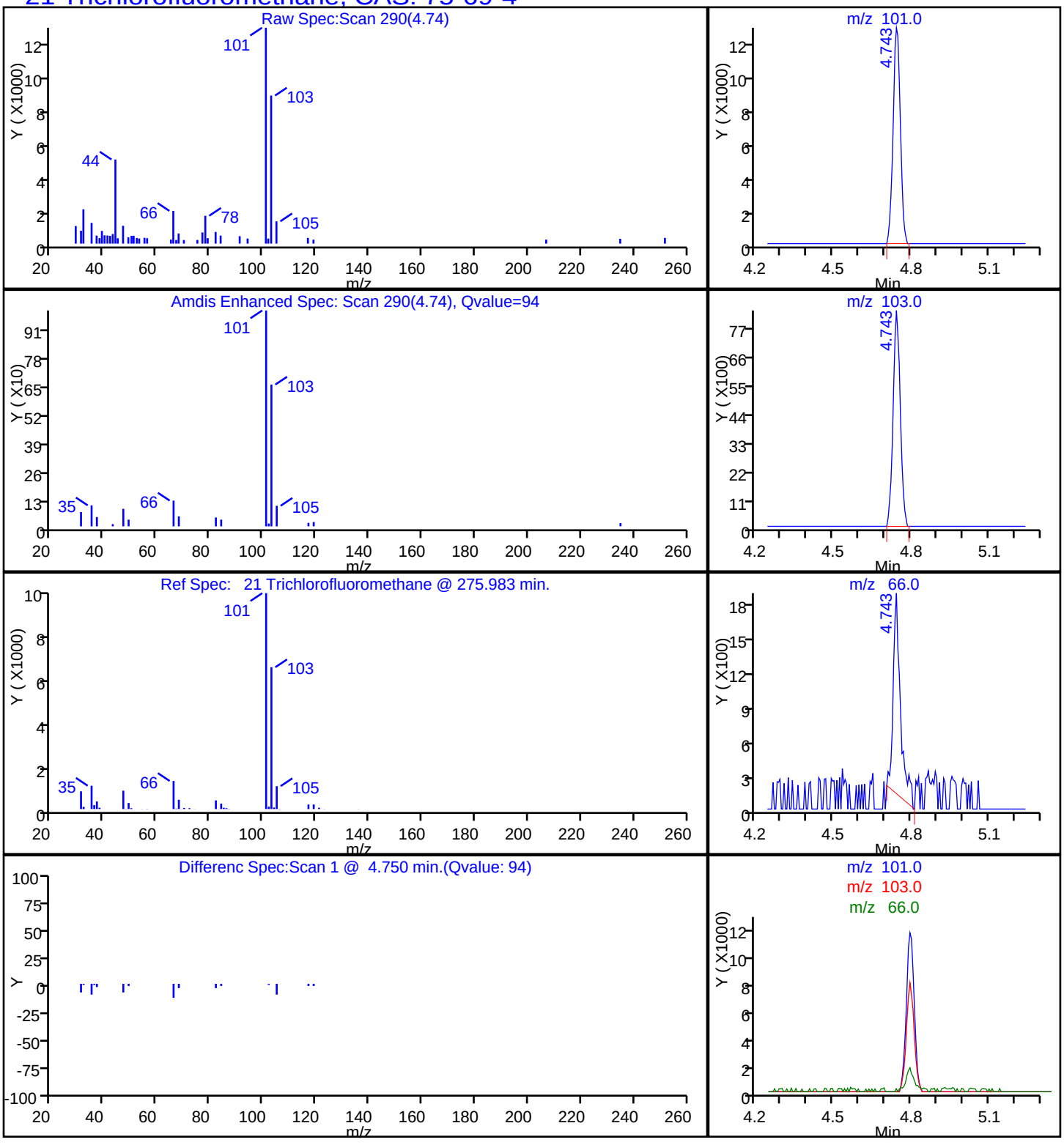
Report Date: 18-Mar-2014 12:31:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS114.D

Injection Date:	18-Mar-2014 03:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-1	Lab Sample ID:	140-1060-1		
Client ID:	PCV-IA1-B7				
Operator ID:	060487	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.85		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.28	J	0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.18	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND	*	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.059	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND	*	0.20	0.035
67-66-3	Chloroform	119.38	0.063	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	38		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	23		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.26		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.10	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	0.27		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.052	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.26		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.56	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND	*	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.37	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND	*	0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	72		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.42	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	57		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.44	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	1.1		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.97		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B4 Lab Sample ID: 140-1060-2

Matrix: Air Lab File ID: EC17POS115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D
Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2
Client ID: PCV-IA2-B4
Sample Type: Client
Inject. Date: 18-Mar-2014 04:33:30 ALS Bottle#: 15 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-2
Misc. Info.: E031714,TO155,,140-0000525-020
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 12:33:07 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 12:33:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.340	0.005	79	204673	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	1034013	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	93	910003	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.032	-0.005	84	828637	4.16	
8 Dichlorodifluoromethane	85	3.368	3.357	0.011	99	41545	0.1835	
9 Chloromethane	52	3.541	3.541	0.011	95	3678	0.2035	M
17 Ethanol	31	4.328	4.317	0.011	98	313545	15.3	
19 2-Methylbutane	43	4.549	4.538	0.011	87	24396	0.3404	
21 Trichlorofluoromethane	101	4.754	4.743	0.011	94	24931	0.1098	
23 Acetone	58	4.889	4.878	0.011	93	28756	0.9276	
24 Isopropyl alcohol	45	4.986	4.970	0.016	98	736315	9.23	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.606	0.021	64	3891	0.0277	
31 Methylene Chloride	84	5.795	5.789	0.006	78	11862	0.2028	
40 Hexane	56	7.590	7.585	0.005	72	2610	0.0479	
43 Chloroform	83	8.356	8.356	0.0	15	4390	0.0250	
48 Benzene	78	10.001	9.995	0.006	89	14674	0.0705	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	71	4682	0.0234	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	88	13962	0.1139	
65 Toluene	91	13.398	13.403	-0.005	88	25130	0.1031	
73 Tetrachloroethene	129	14.546	14.552	-0.006	61	2144	0.0206	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	96	25788	0.1049	
80 Styrene	104	16.353	16.353	0.0	94	18327	0.1078	
82 o-Xylene	91	16.407	16.412	-0.005	79	10654	0.0401	

QC Flag Legend

Review Flags
M - Manually Integrated

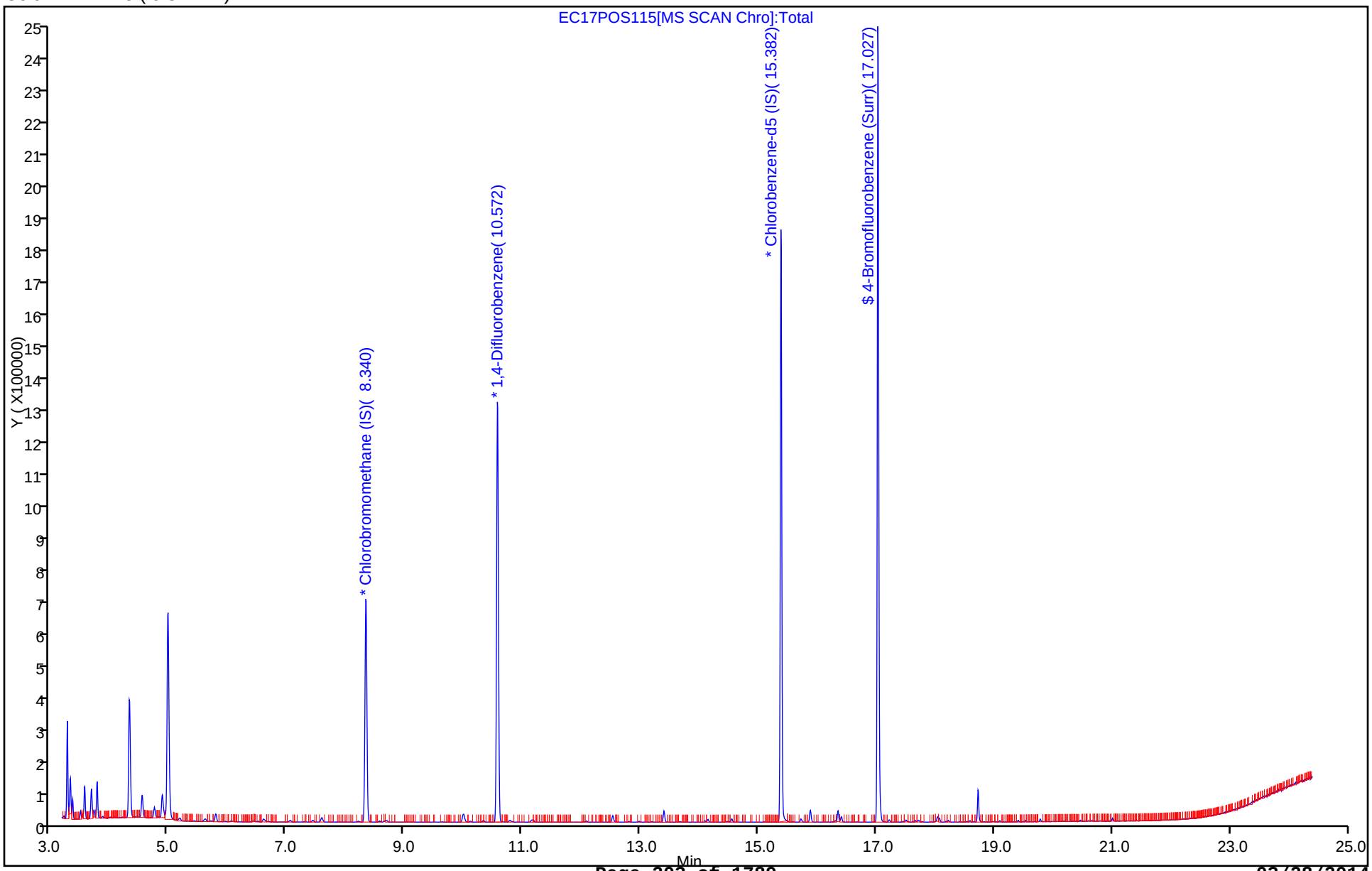
Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2	Worklist Smp#:	20
Client ID:	PCV-IA2-B4				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

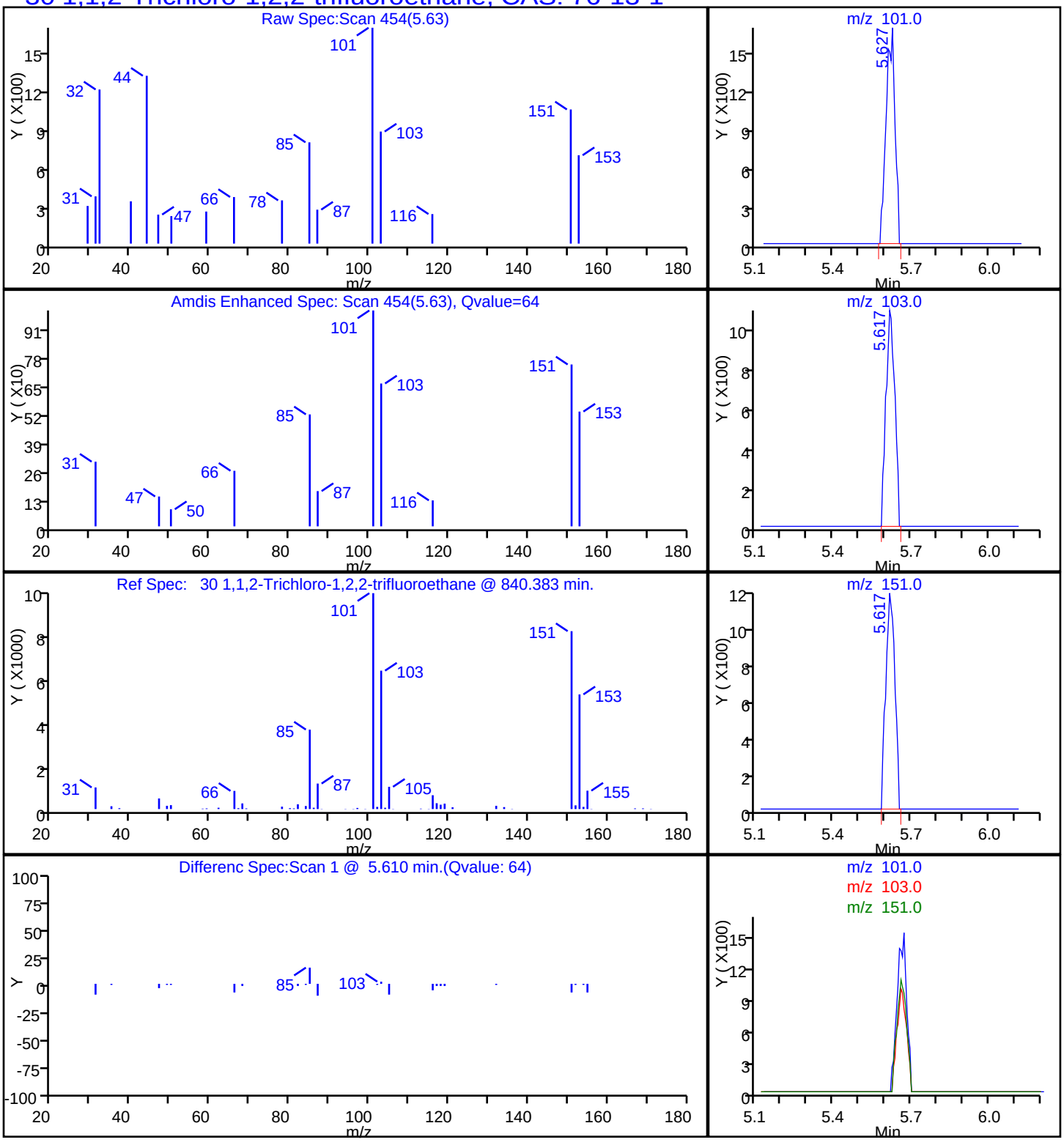
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

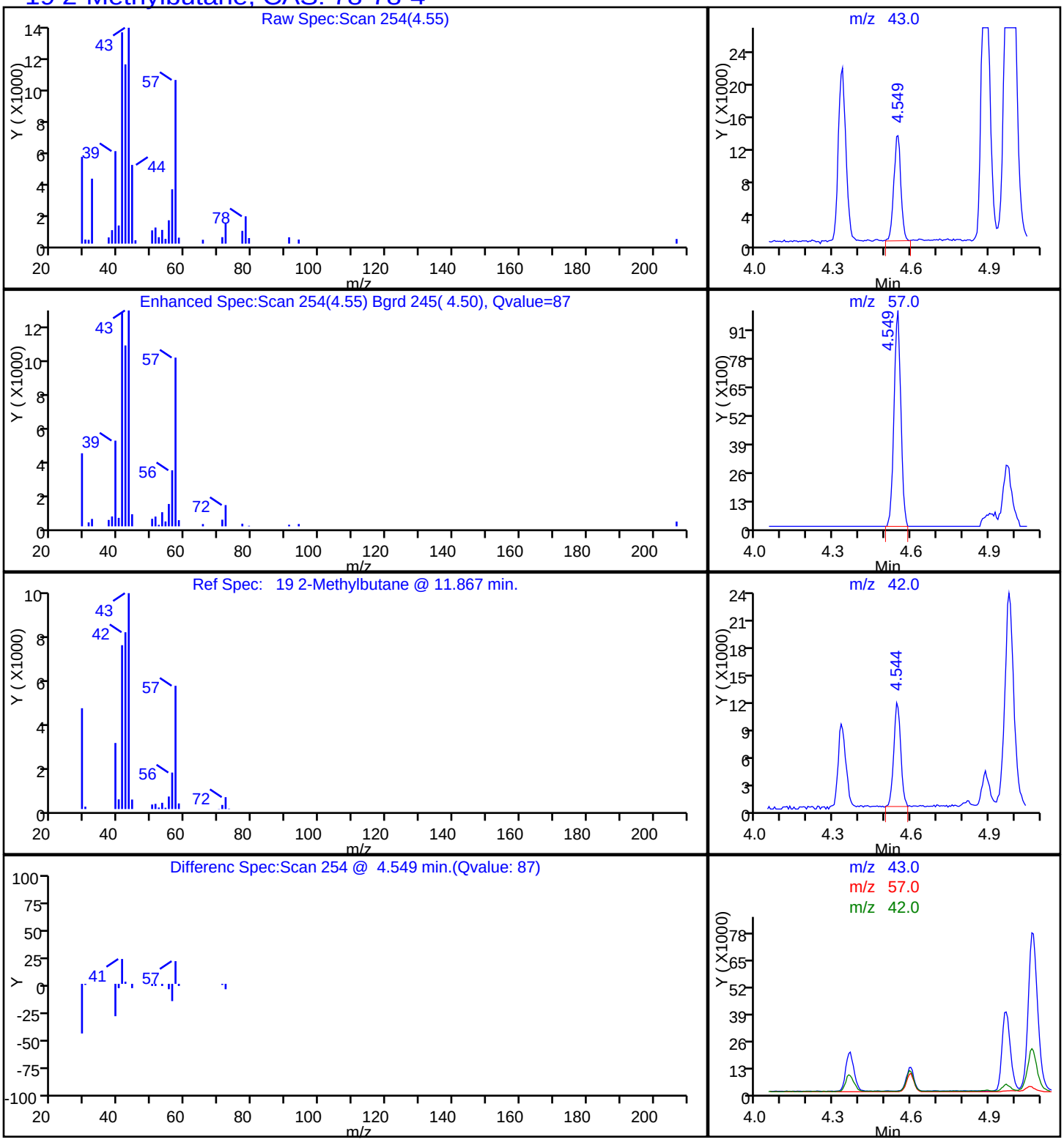
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

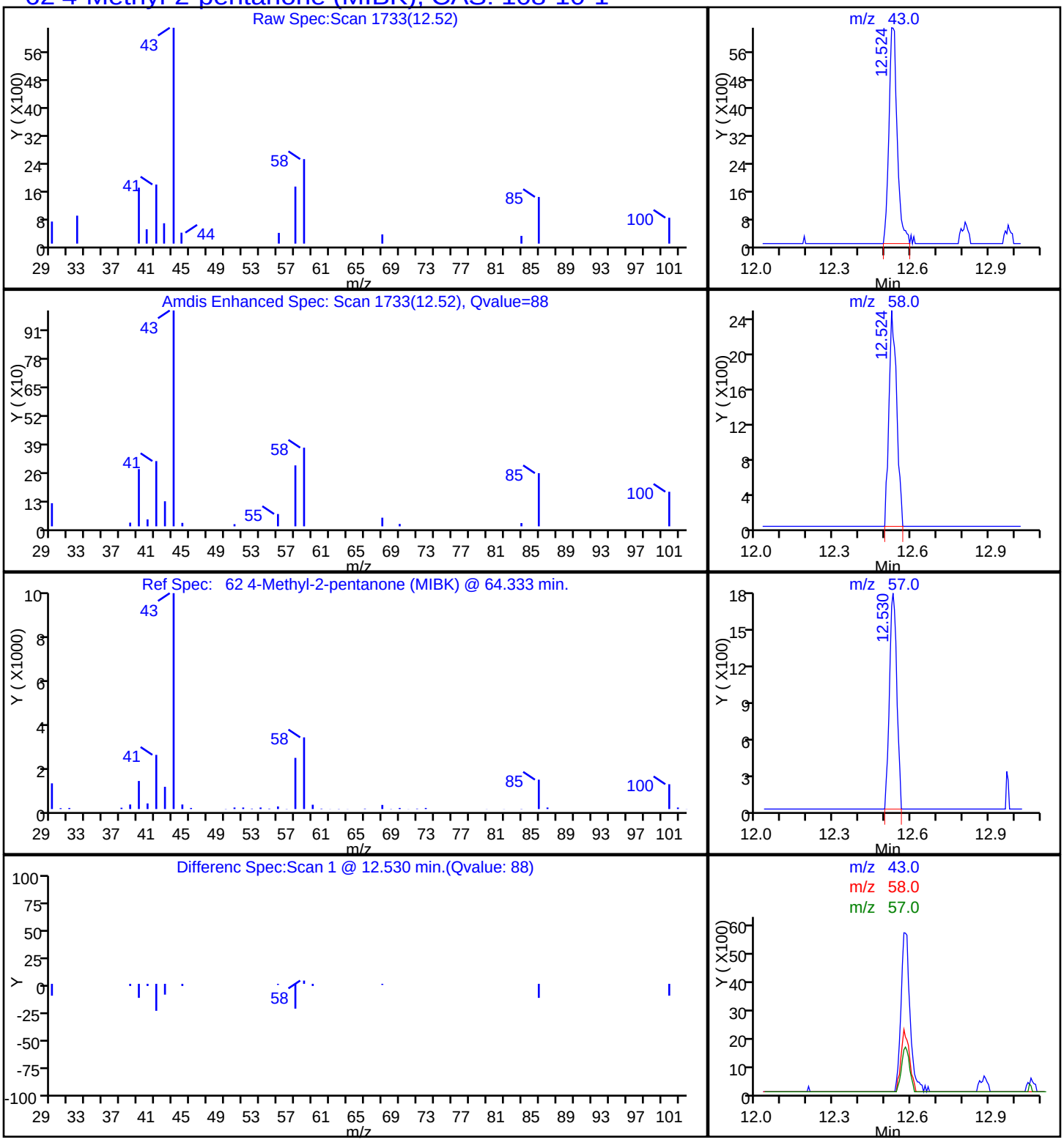
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

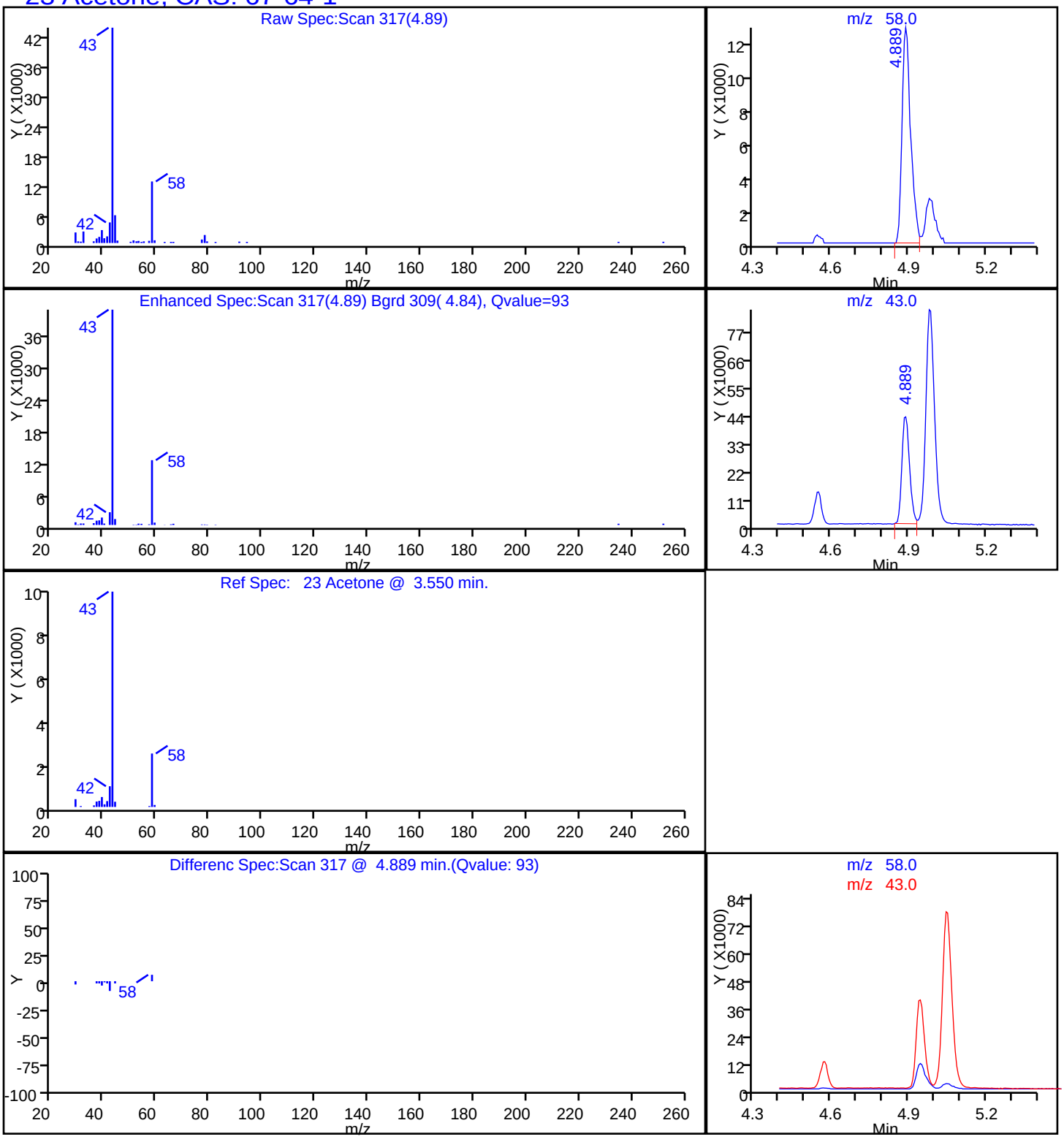
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



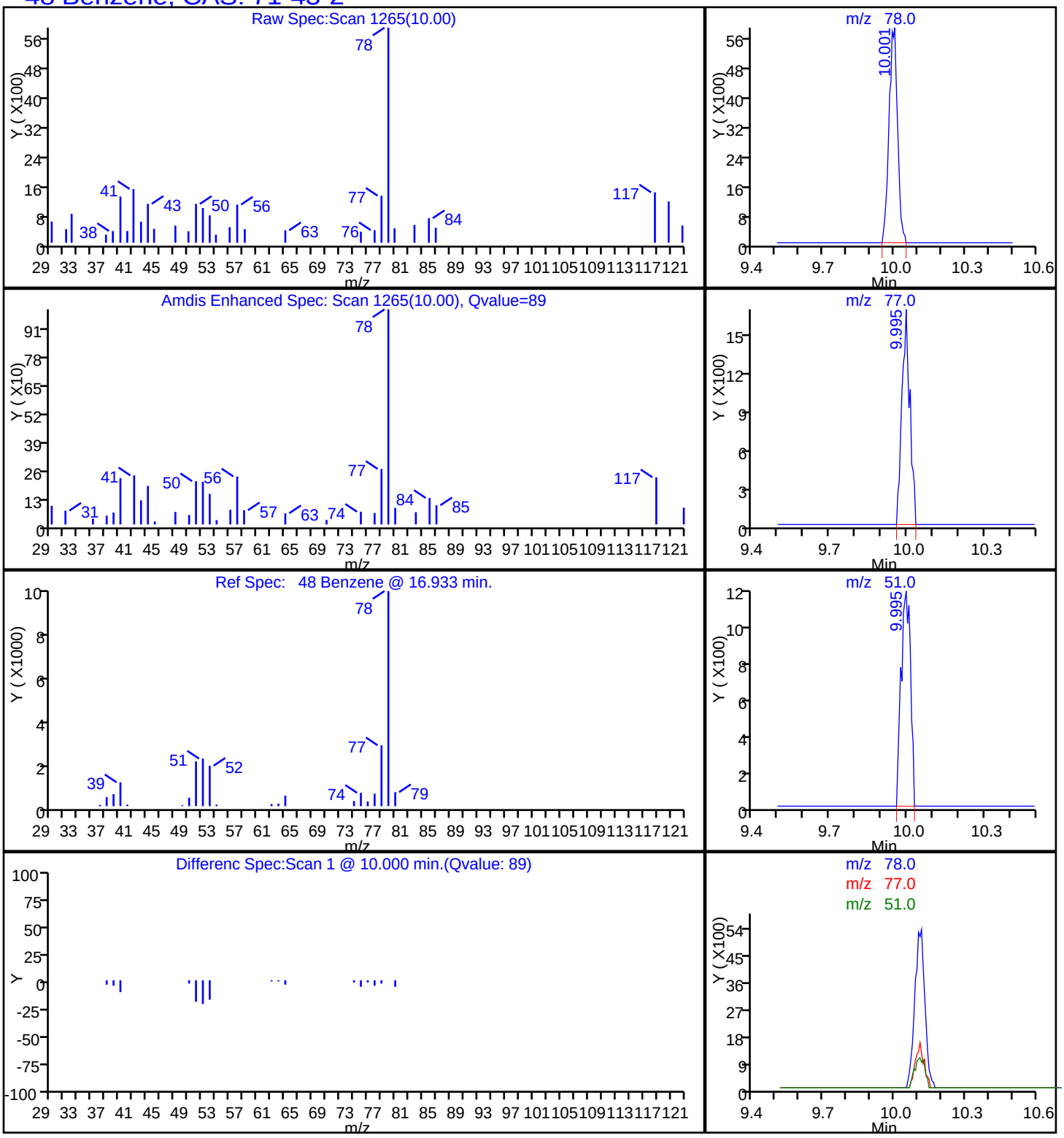
Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2
Client ID:	PCV-IA2-B4		
Operator ID:	060487	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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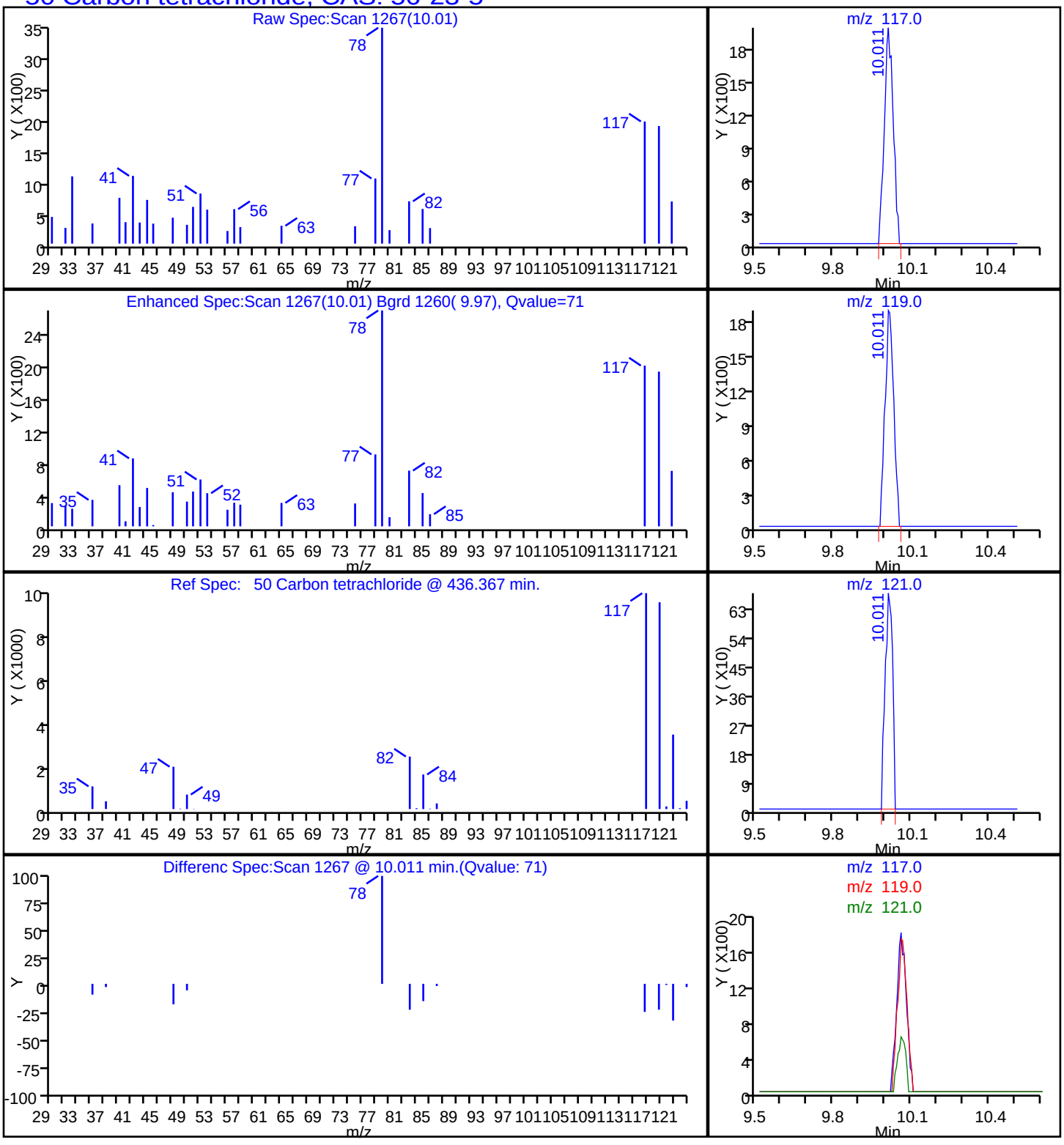
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2		
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

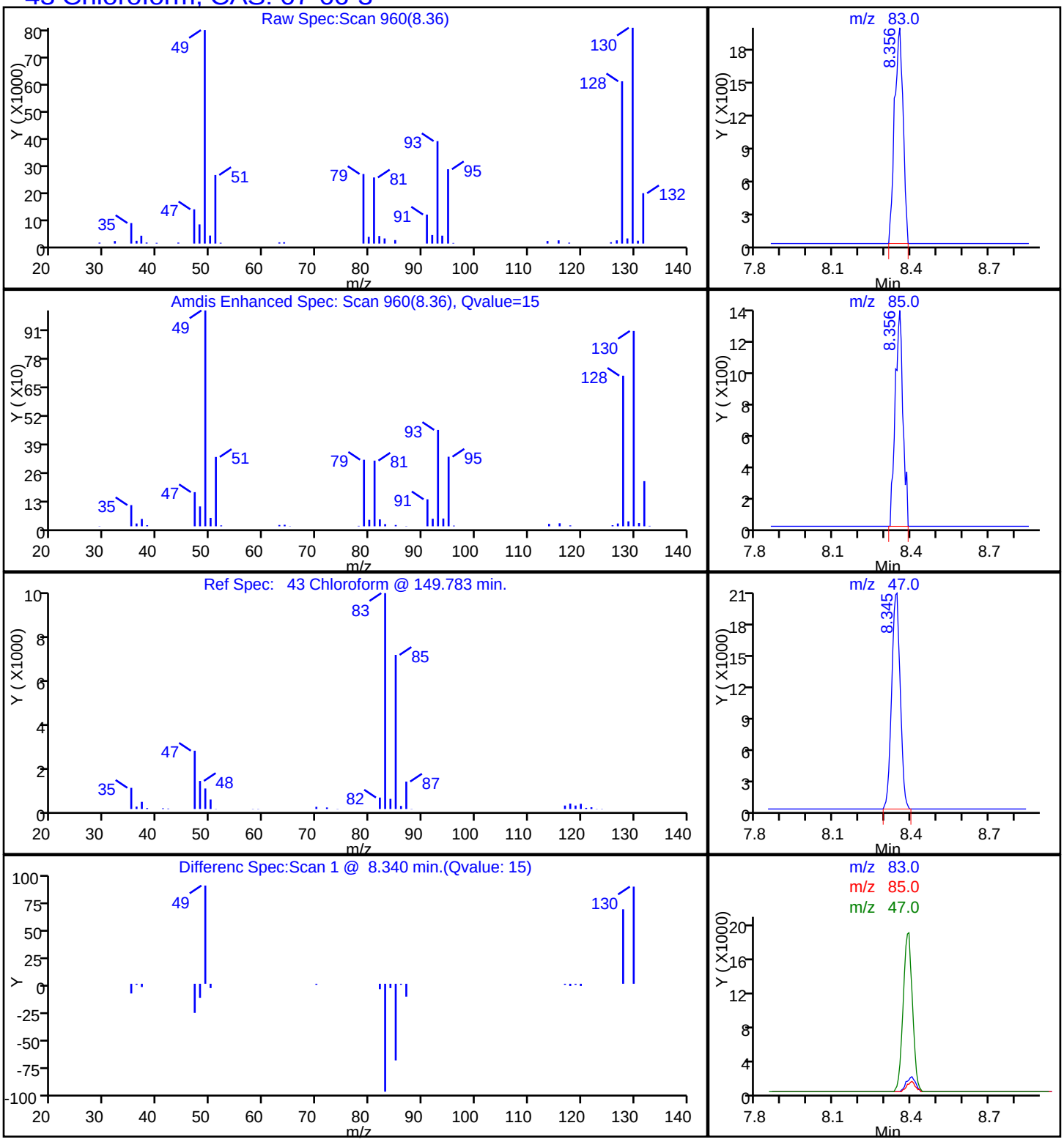
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

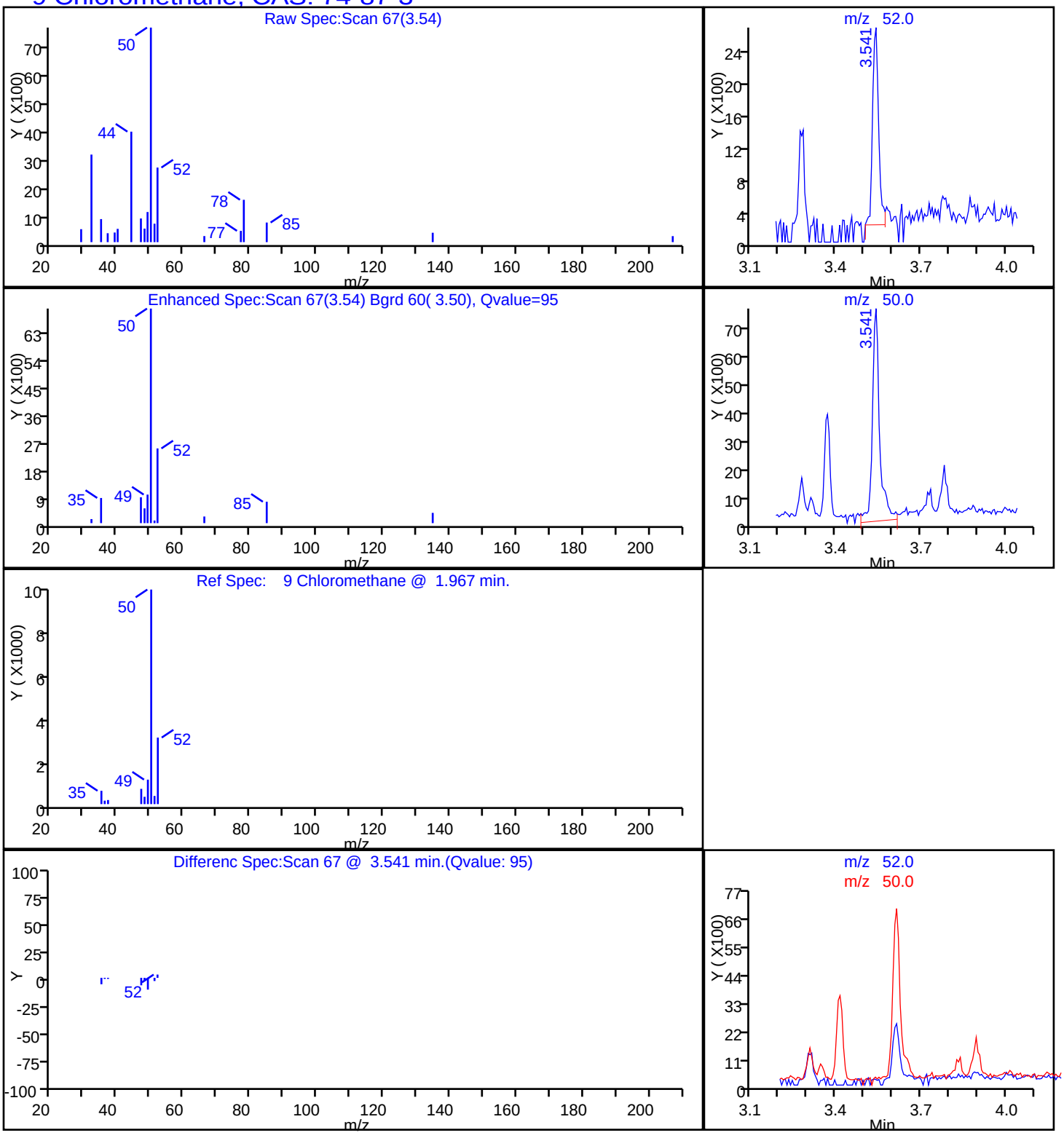
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

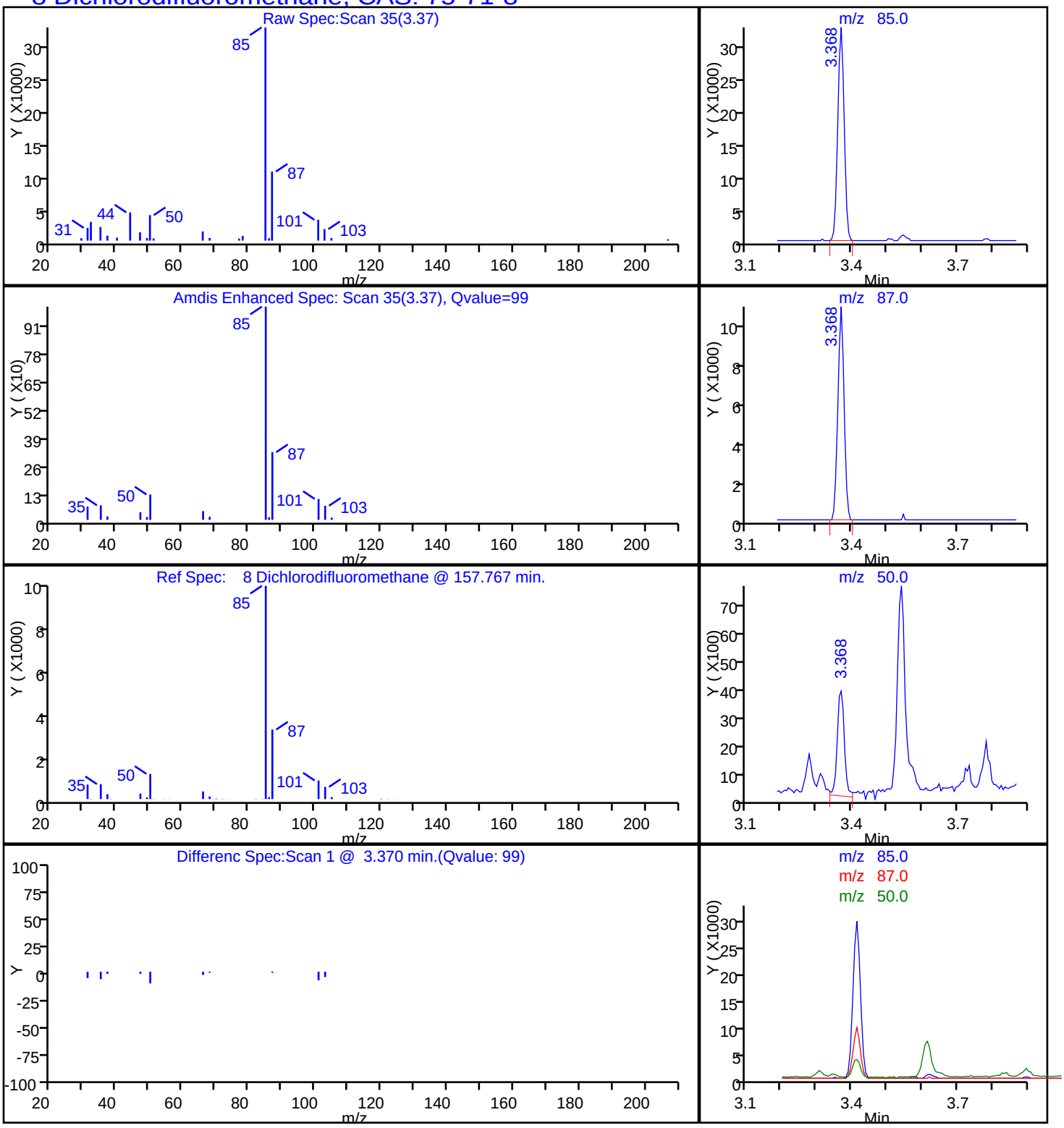
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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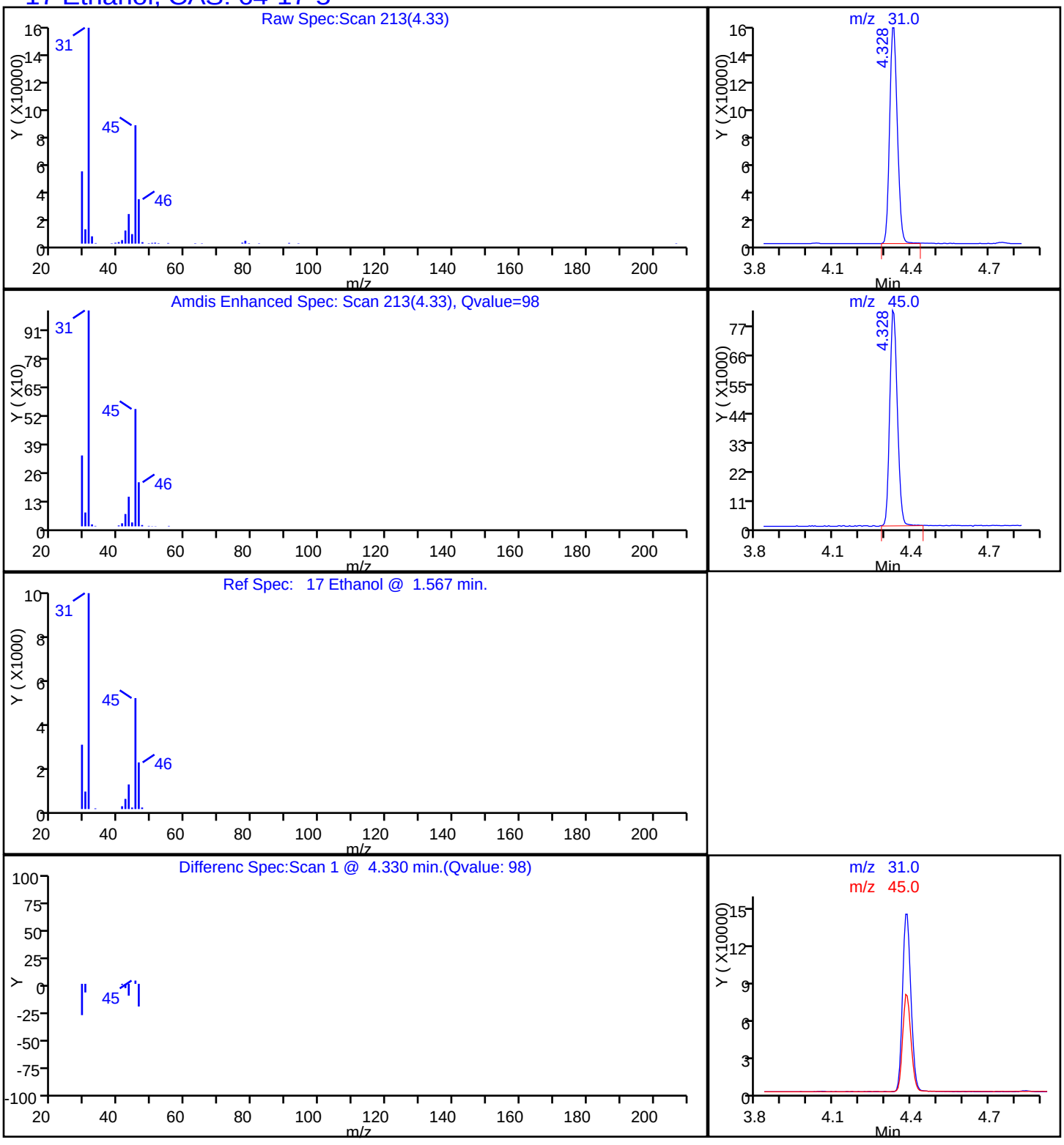
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2
Client ID:	PCV-IA2-B4		
Operator ID:	060487	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

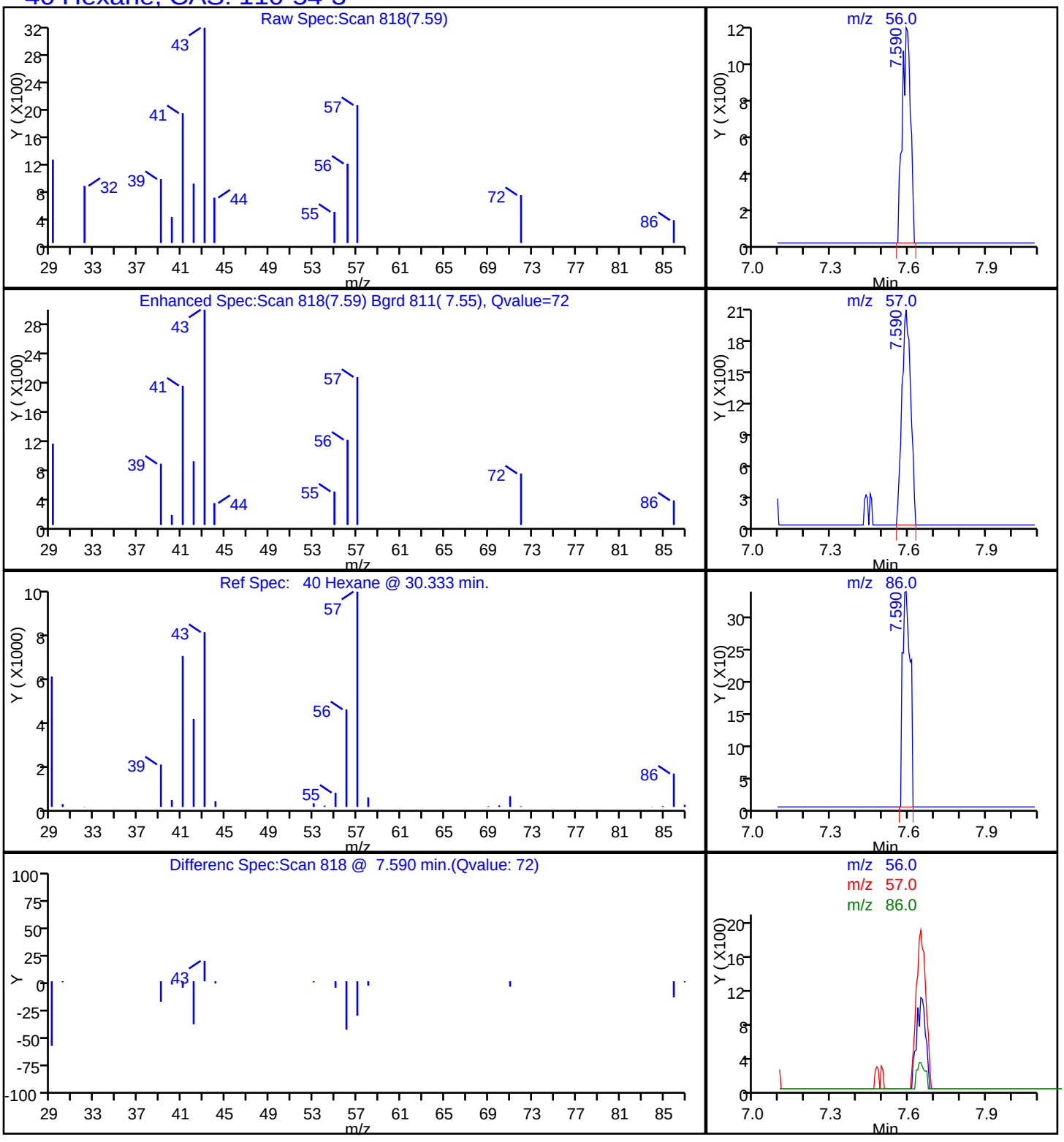
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3



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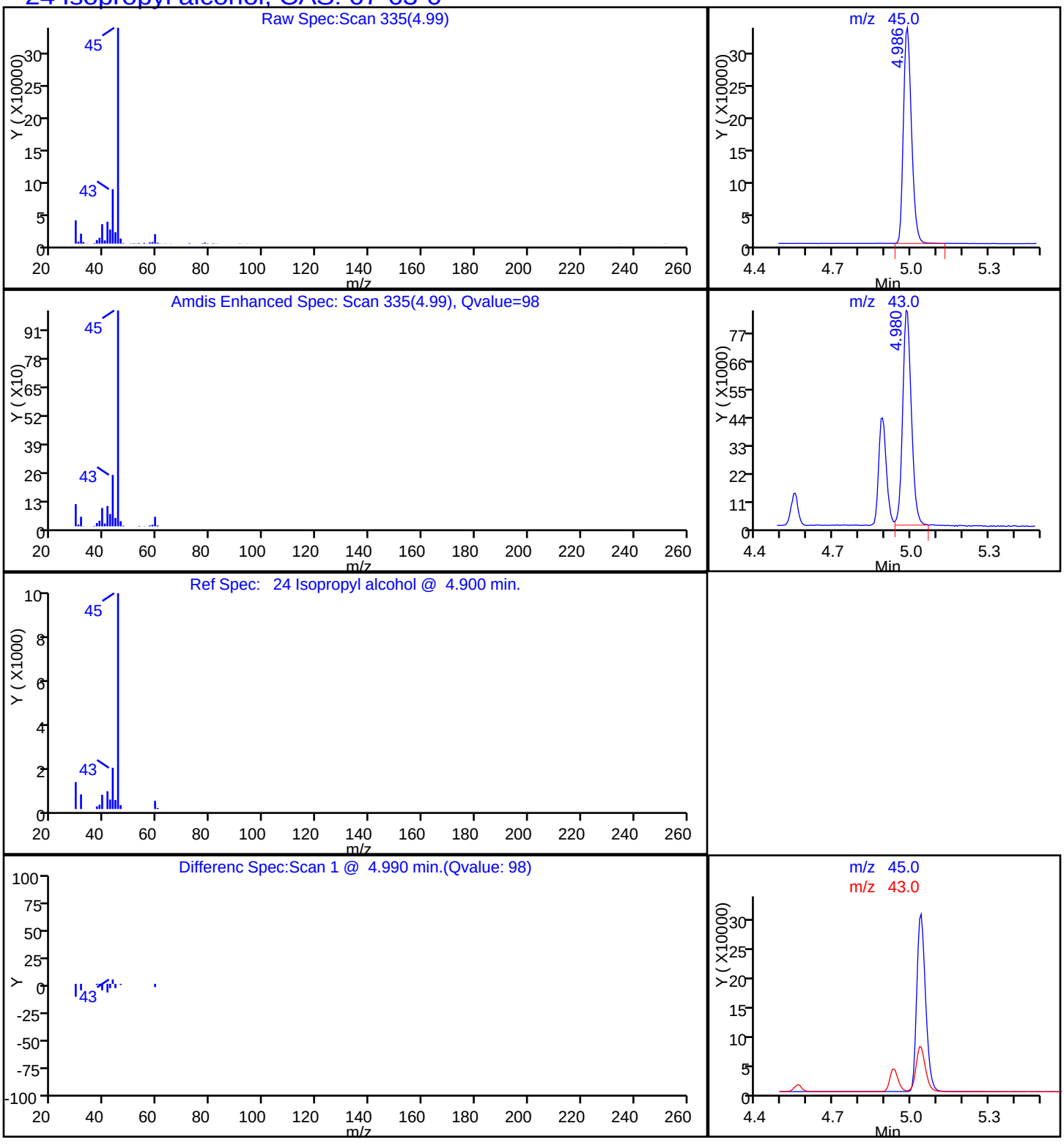
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2		
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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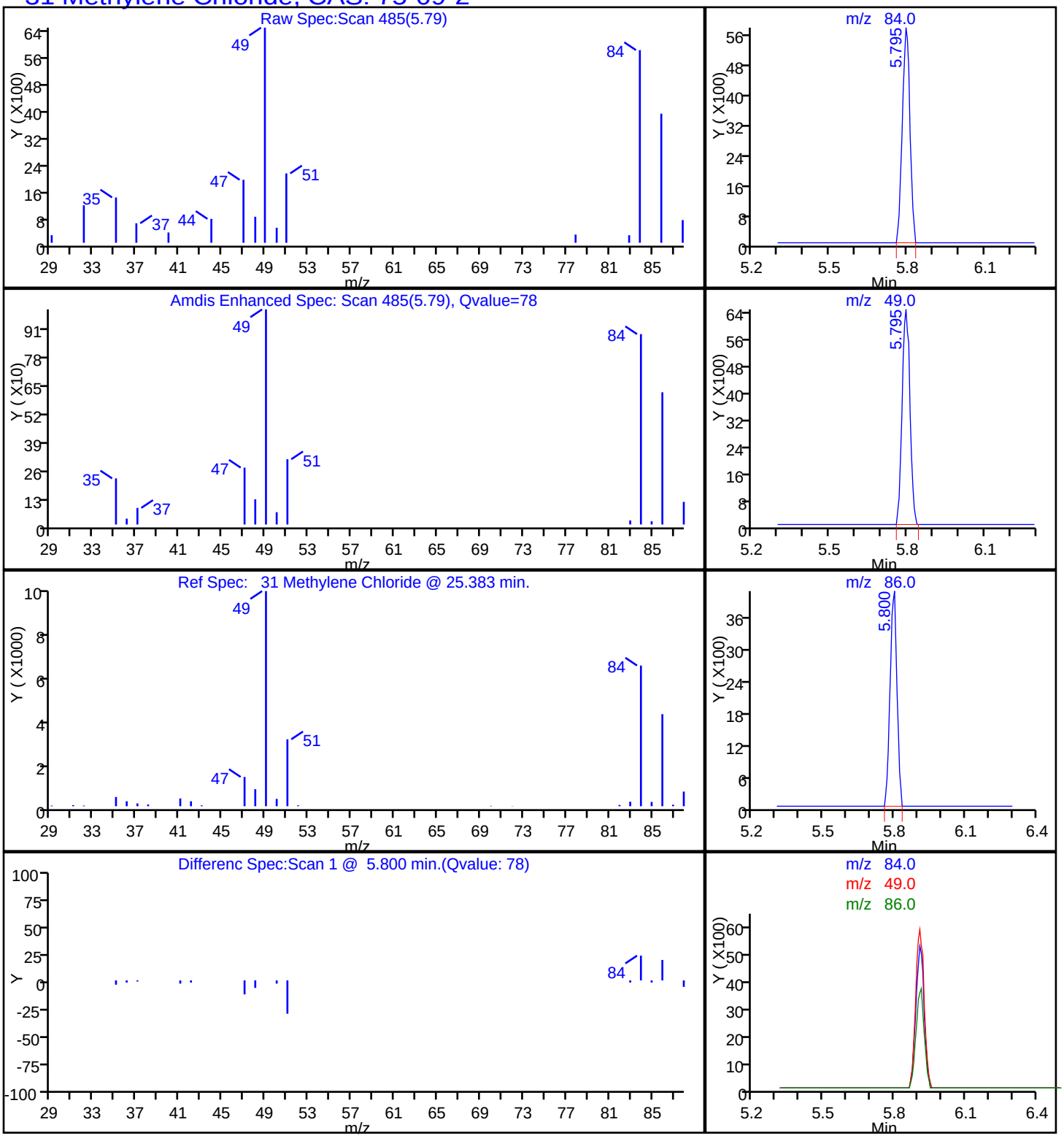
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2		
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
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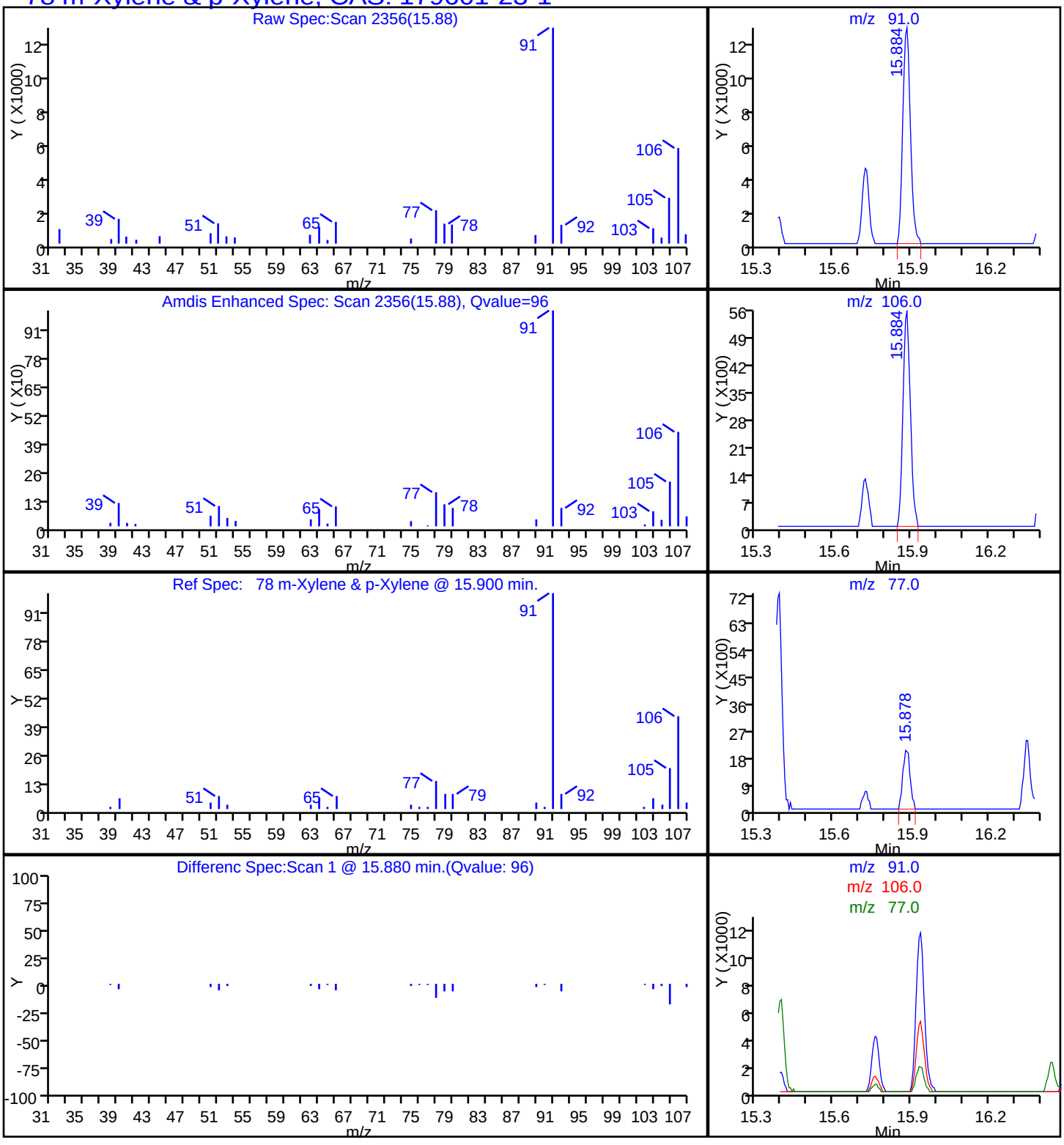
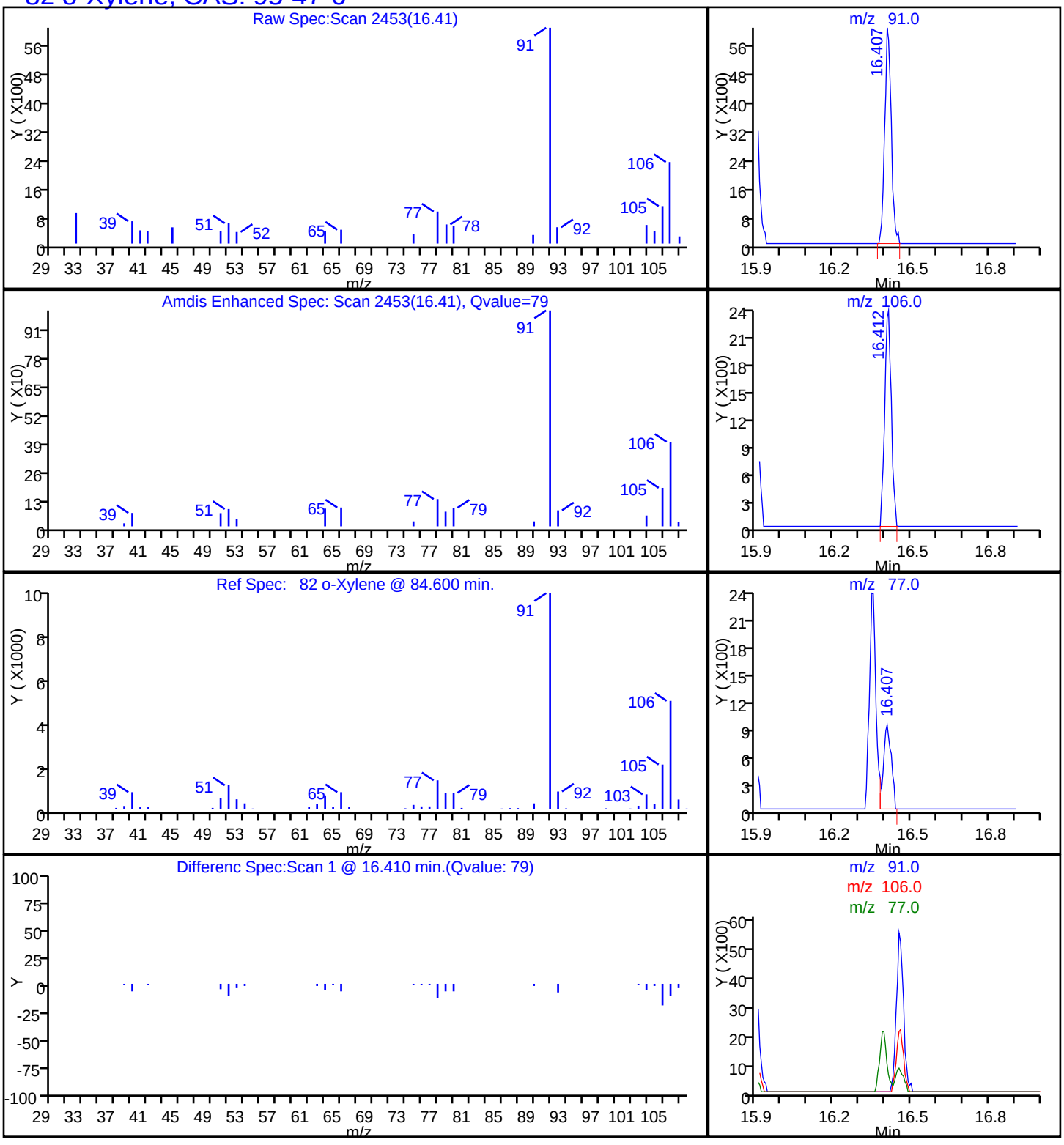
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D
Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME
Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2
Client ID: PCV-IA2-B4
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

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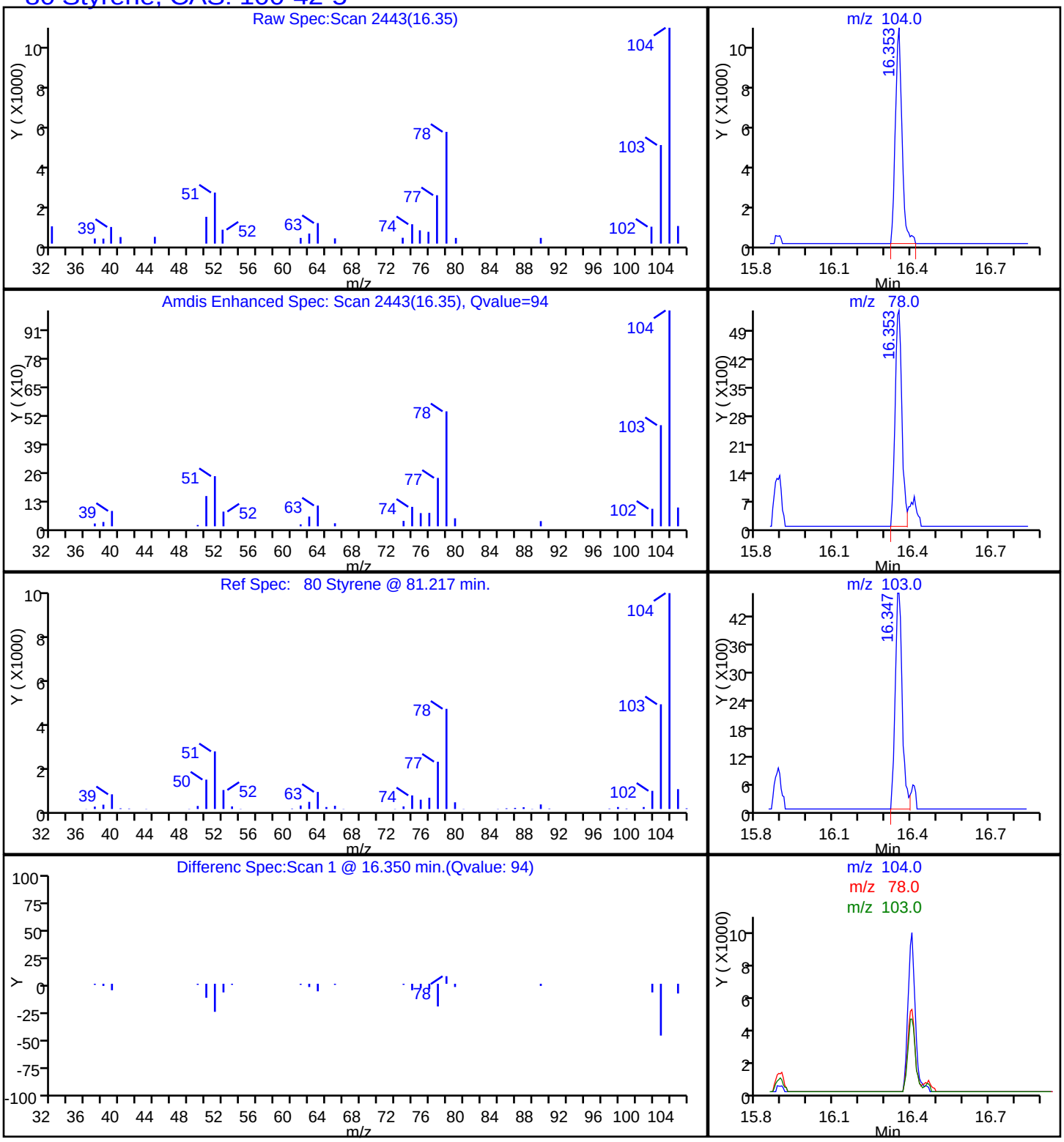
Operator ID:	060487	ALS Bottle#:	15 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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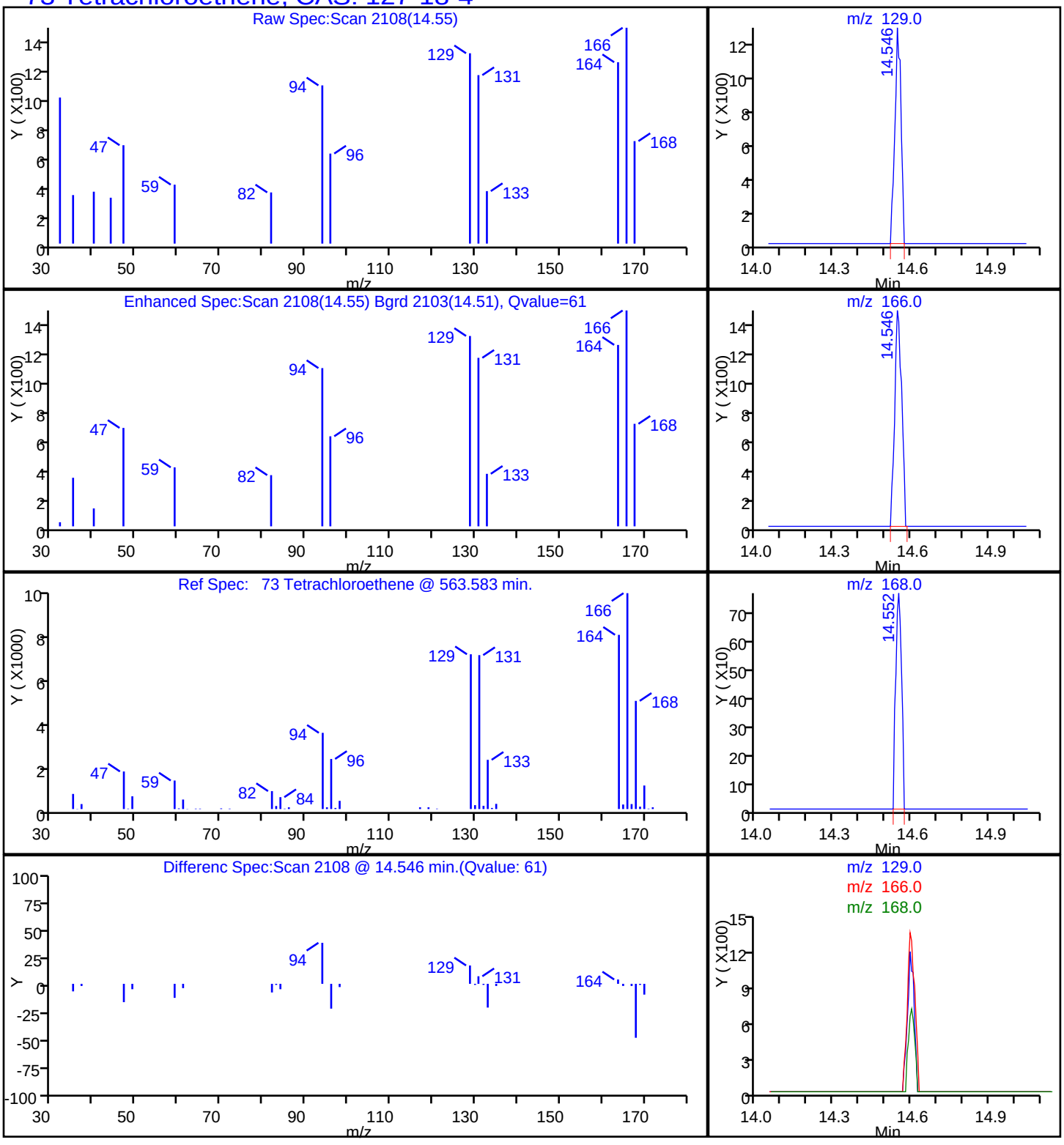
Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2		
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

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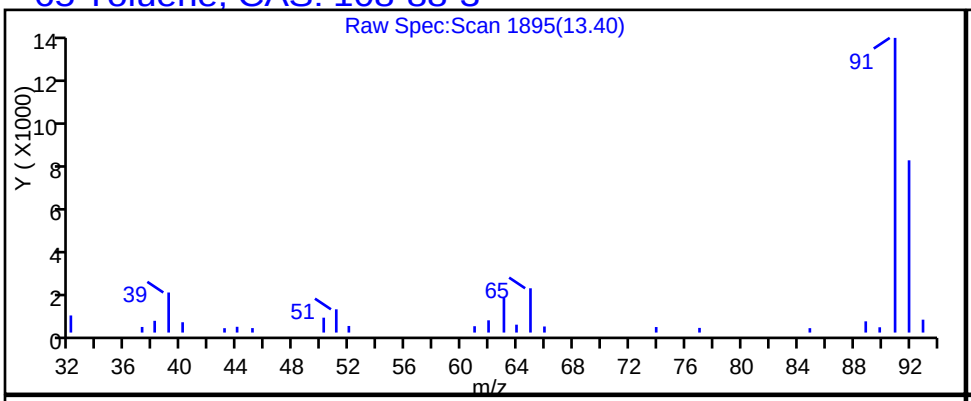
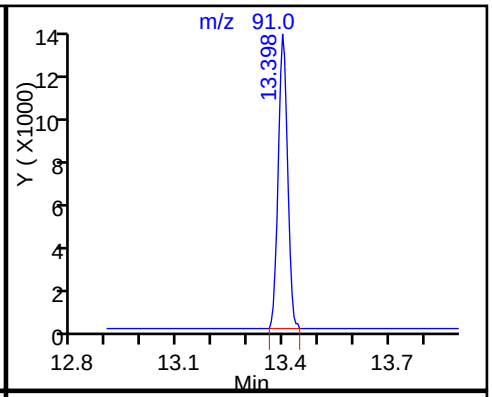
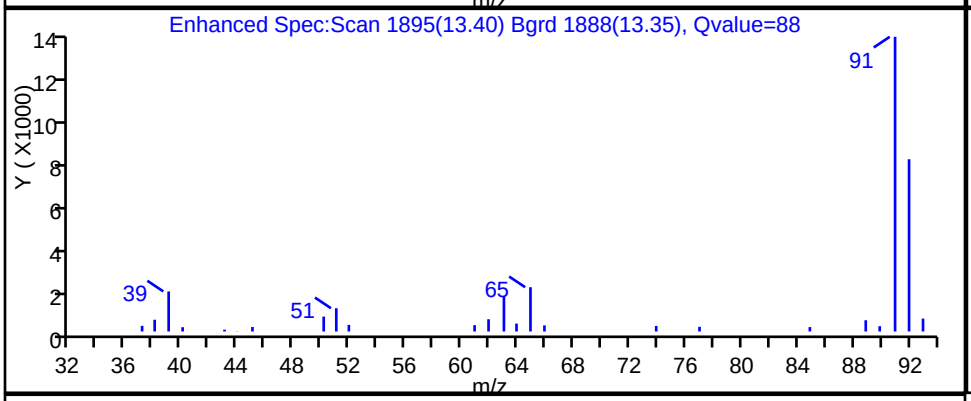
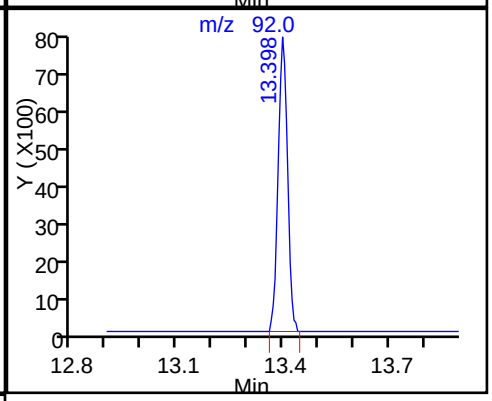
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

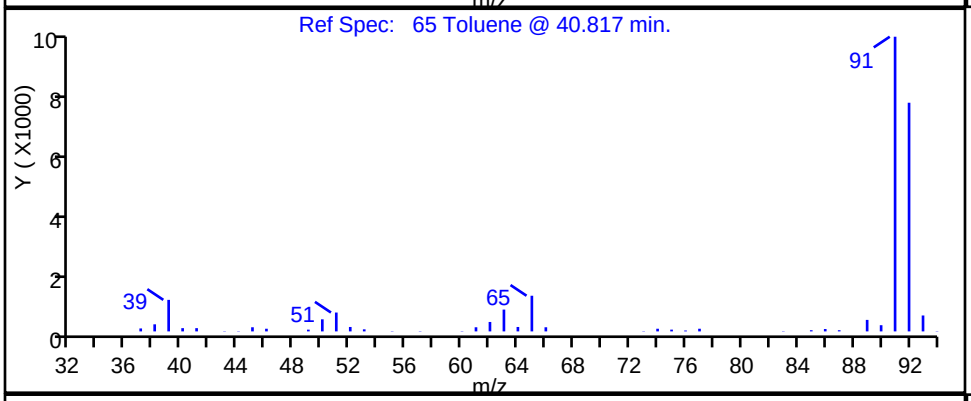
65 Toluene, CAS: 108-88-3

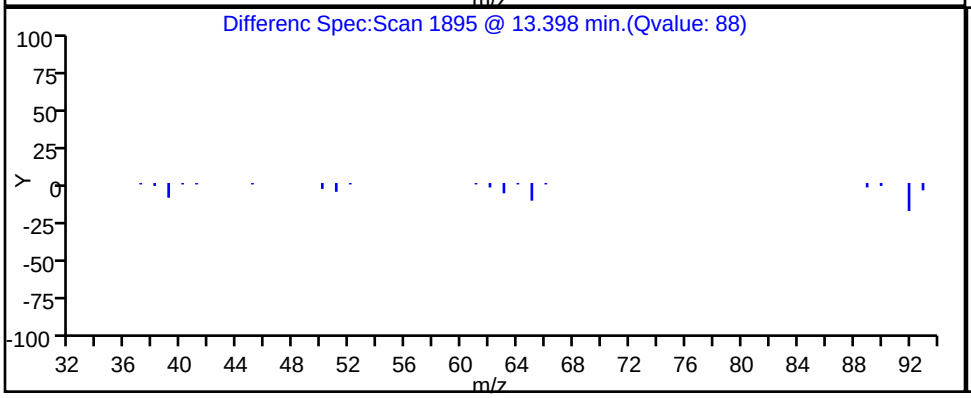


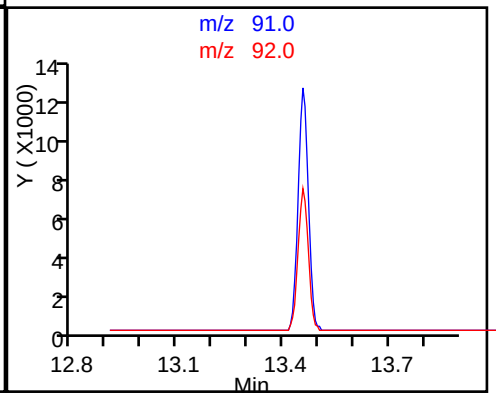












Report Date: 18-Mar-2014 12:33:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D

Injection Date: 18-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-2 Lab Sample ID: 140-1060-2

Client ID: PCV-IA2-B4

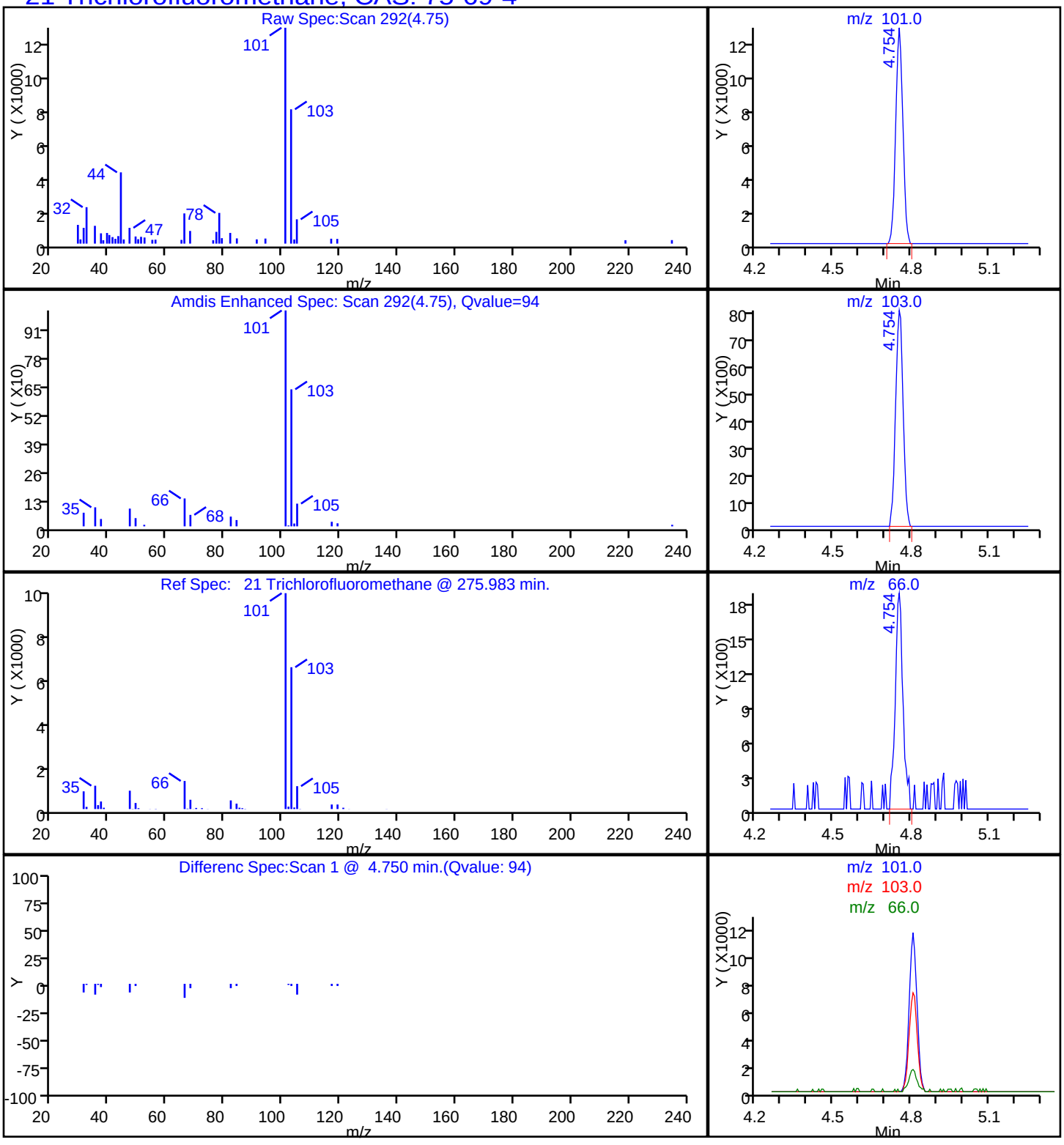
Operator ID: 060487 ALS Bottle#: 15 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

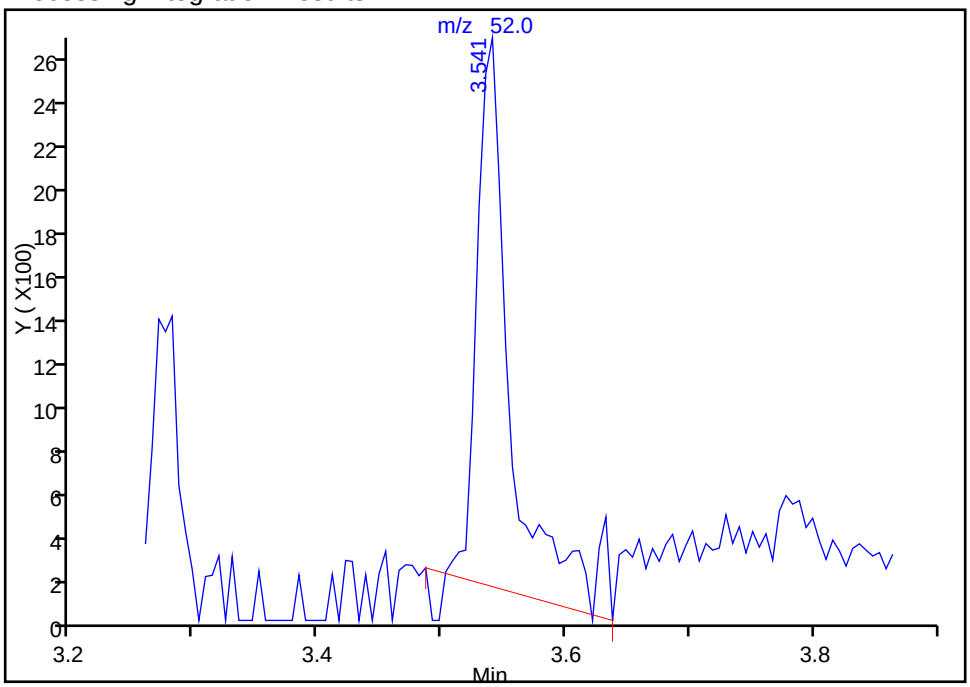
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EC17POS115.D				
Injection Date:	18-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-2	Lab Sample ID:	140-1060-2		
Client ID:	PCV-IA2-B4				
Operator ID:	060487	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

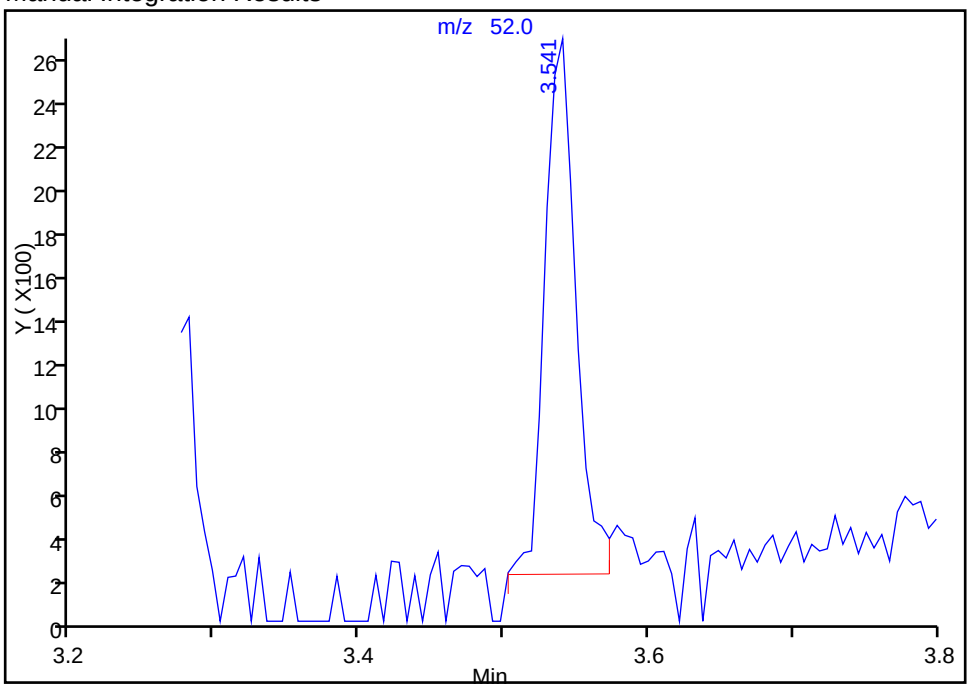
Processing Integration Results

RT: 3.54
Response: 4705
Amount: 0.260352



Manual Integration Results

RT: 3.54
Response: 3678
Amount: 0.203523



Reviewer: barlozhetskayaa, 18-Mar-2014 12:33:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.077	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.080	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.61		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.070	J	0.50	0.045
67-64-1	Acetone	58.08	1.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.042	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.080	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.46	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068
64-17-5	Ethanol	46.07	6.9		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.10	J	0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.47	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.48	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.55		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.20		0.20	0.061
115-07-1	Propene	42.08	0.72	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.049	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.28		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.59	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.18	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.29	J	2.0	0.18
67-64-1	Acetone	58.08	3.7	J	12	3.3
71-43-2	Benzene	78.11	0.62	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.16	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.50	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.95	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	13		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.44	J	0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.37	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.2	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	0.85		0.87	0.26
115-07-1	Propene	42.08	1.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.33	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B6 Lab Sample ID: 140-1060-3

Matrix: Air Lab File ID: EC20P101.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D
Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3
Client ID: PCV-IA1-B6
Sample Type: Client
Inject. Date: 20-Mar-2014 16:31:30 ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-3
Misc. Info.: E032014,TO155,,140-0000533-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 07:30:57 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:30:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	275140	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1286337	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1133307	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	912828	3.68	
7 Propene	41	3.320	3.314	0.006	67	19879	0.2872	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	56867	0.1868	
9 Chloromethane	52	3.535	3.530	0.005	90	4491	0.1849	
13 Butadiene	54	3.778	3.772	0.006	29	2086	0.0322	
15 Bromomethane	94	4.069	4.080	-0.011	40	1709	0.0169	
17 Ethanol	31	4.317	4.317	0.0	98	75441	2.74	
19 2-Methylbutane	43	4.538	4.538	0.0	84	23391	0.2428	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	34643	0.1135	
23 Acetone	58	4.878	4.883	-0.005	91	25694	0.6165	
24 Isopropyl alcohol	45	4.975	4.970	0.005	79	20350	0.1897	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	80	5818	0.0308	
31 Methylene Chloride	84	5.784	5.789	-0.005	74	15185	0.1931	
40 Hexane	56	7.574	7.585	-0.011	80	3086	0.0422	
48 Benzene	78	9.985	9.995	-0.010	94	20021	0.0773	
50 Carbon tetrachloride	117	10.012	10.017	-0.005	90	7939	0.0319	
54 n-Heptane	71	11.176	11.182	-0.006	61	1865	0.0190	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	76	4297	0.0282	
65 Toluene	91	13.393	13.398	-0.005	87	33763	0.1112	
73 Tetrachloroethene	129	14.547	14.552	-0.006	78	2550	0.0197	
76 Ethylbenzene	91	15.722	15.722	0.0	85	15844	0.0407	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	98	66809	0.2183	
82 o-Xylene	91	16.412	16.412	0.0	95	25960	0.0785	

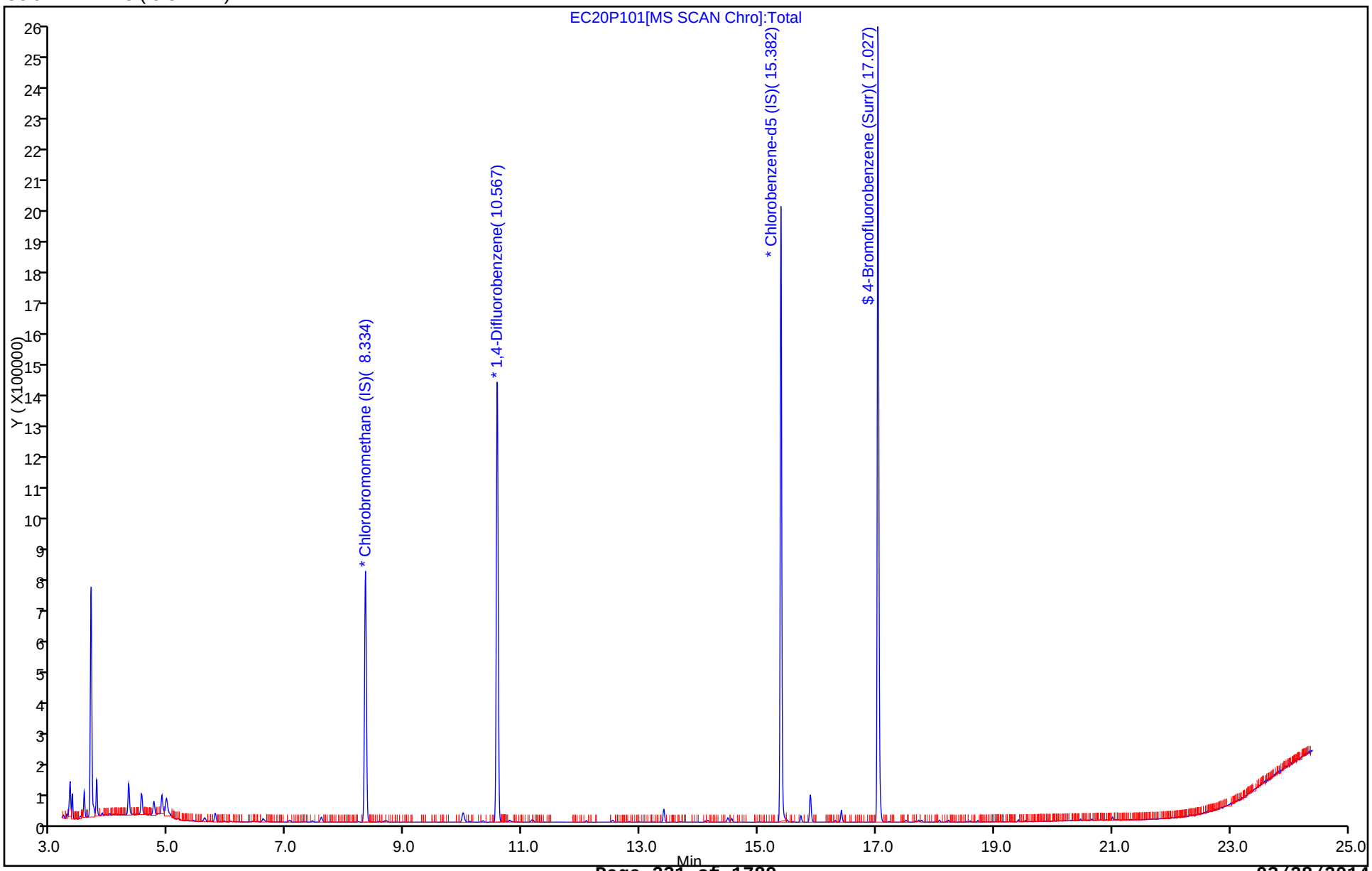
Report Date: 21-Mar-2014 09:30:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3	Worklist Smp#:	5
Client ID:	PCV-IA1-B6				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:30:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

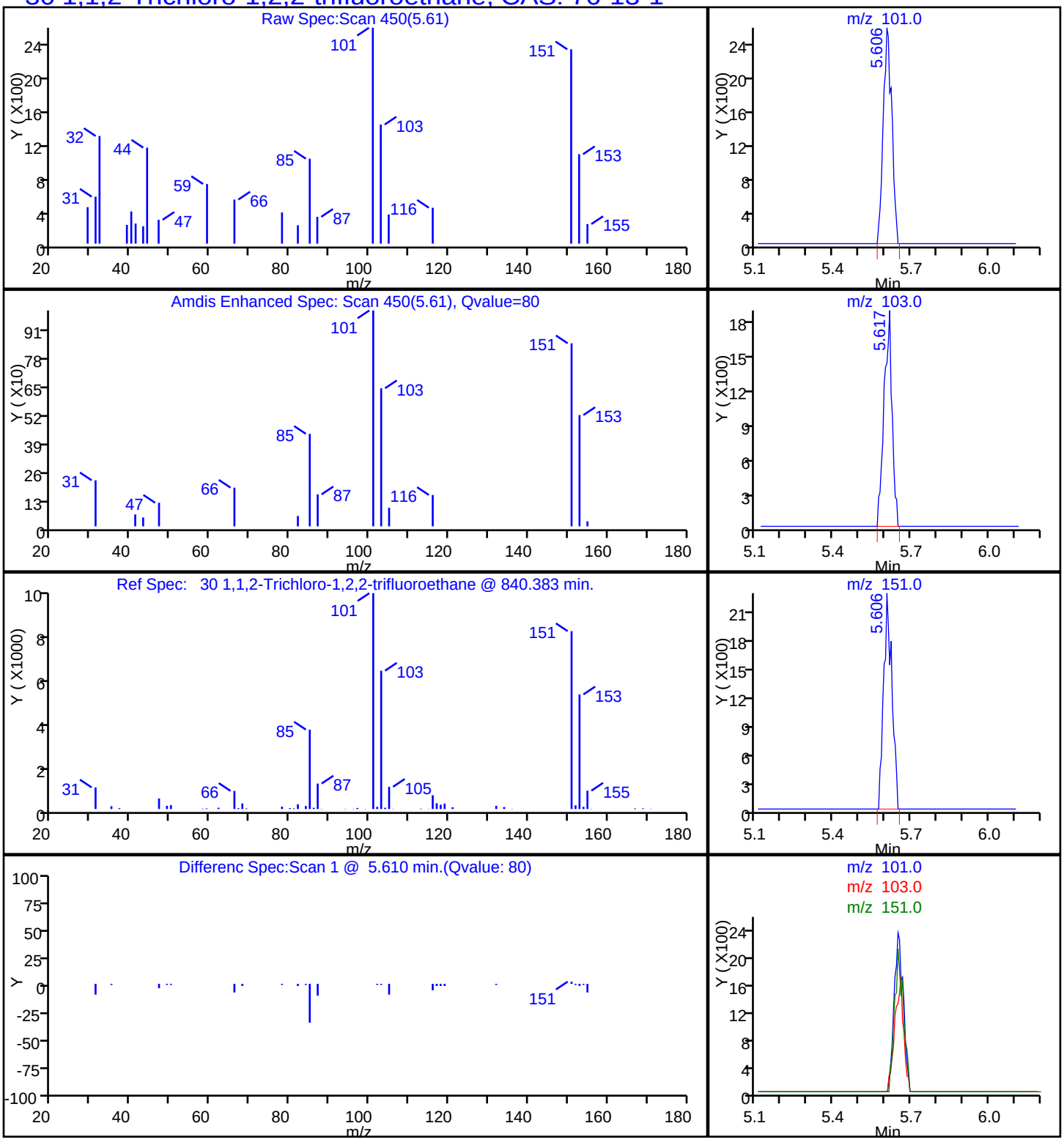
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



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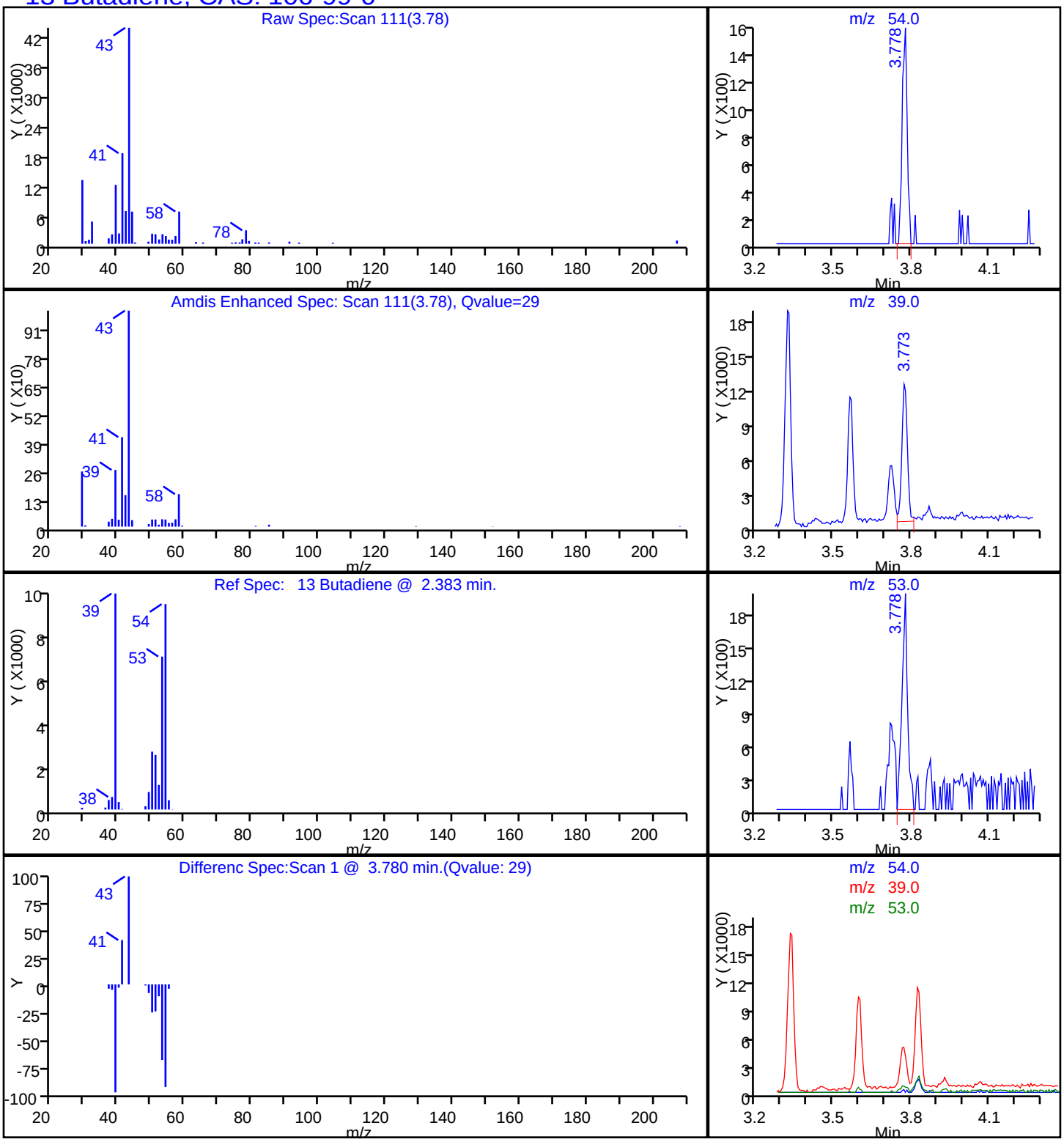
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



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TestAmerica Knoxville

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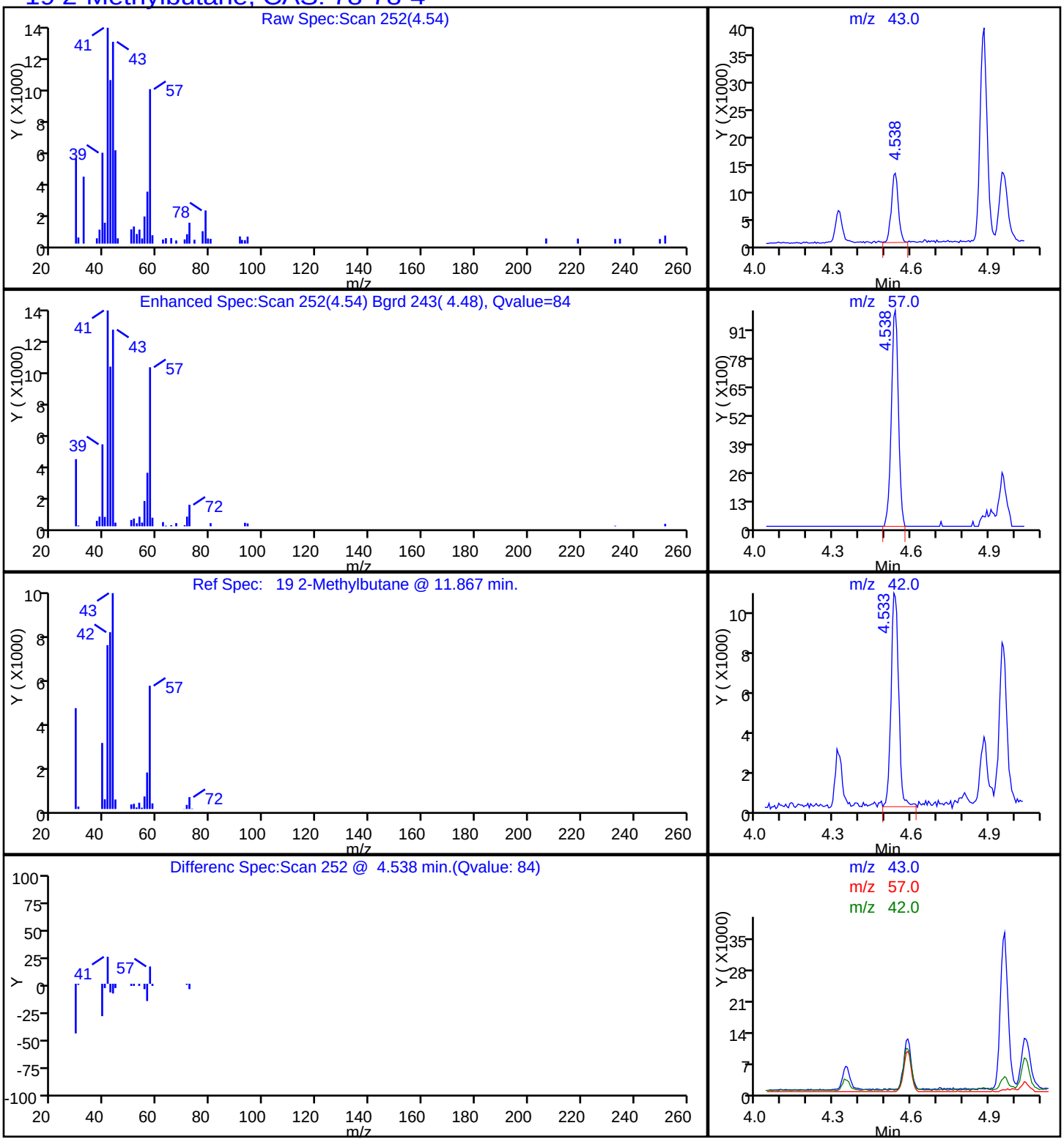
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

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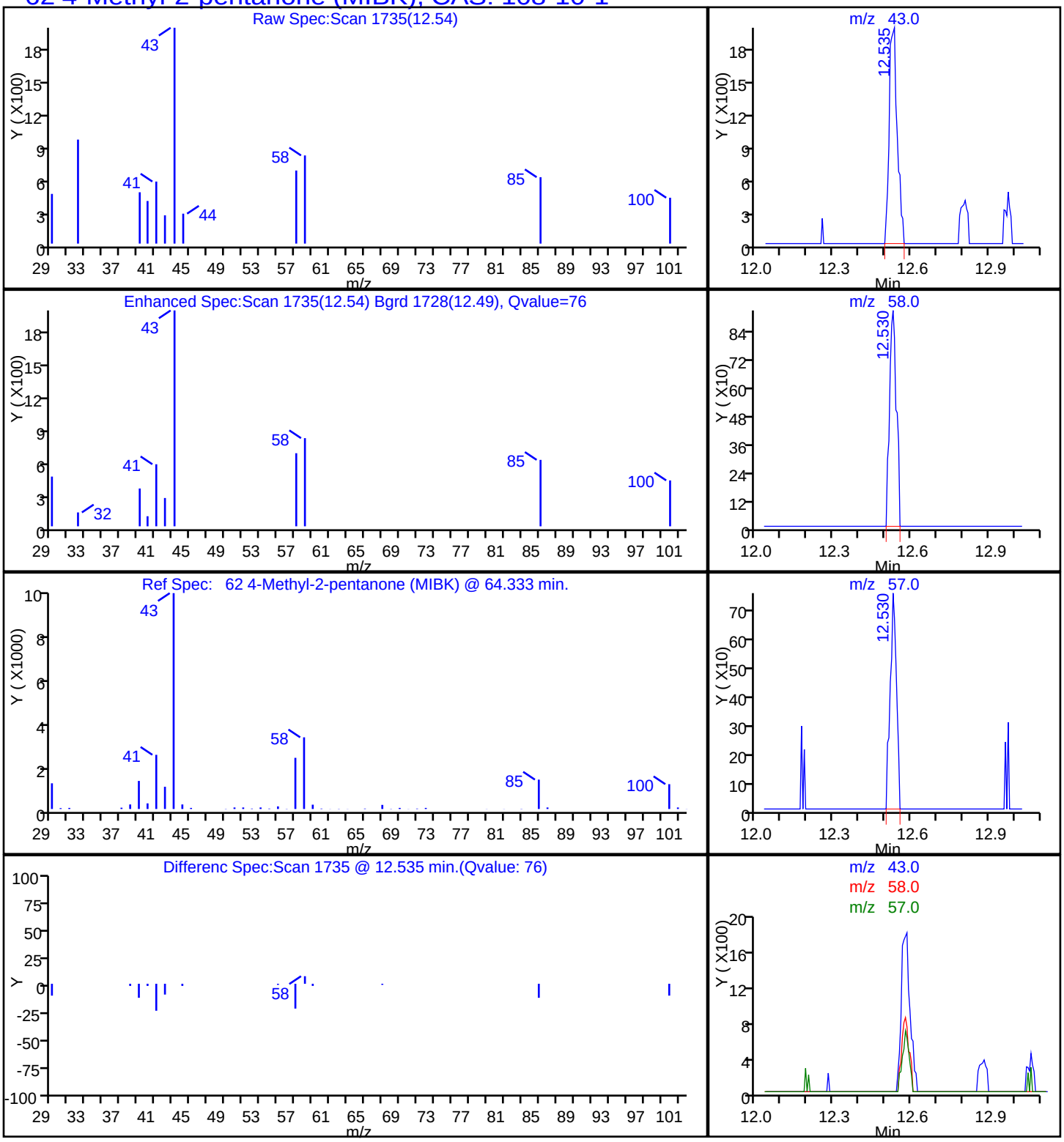
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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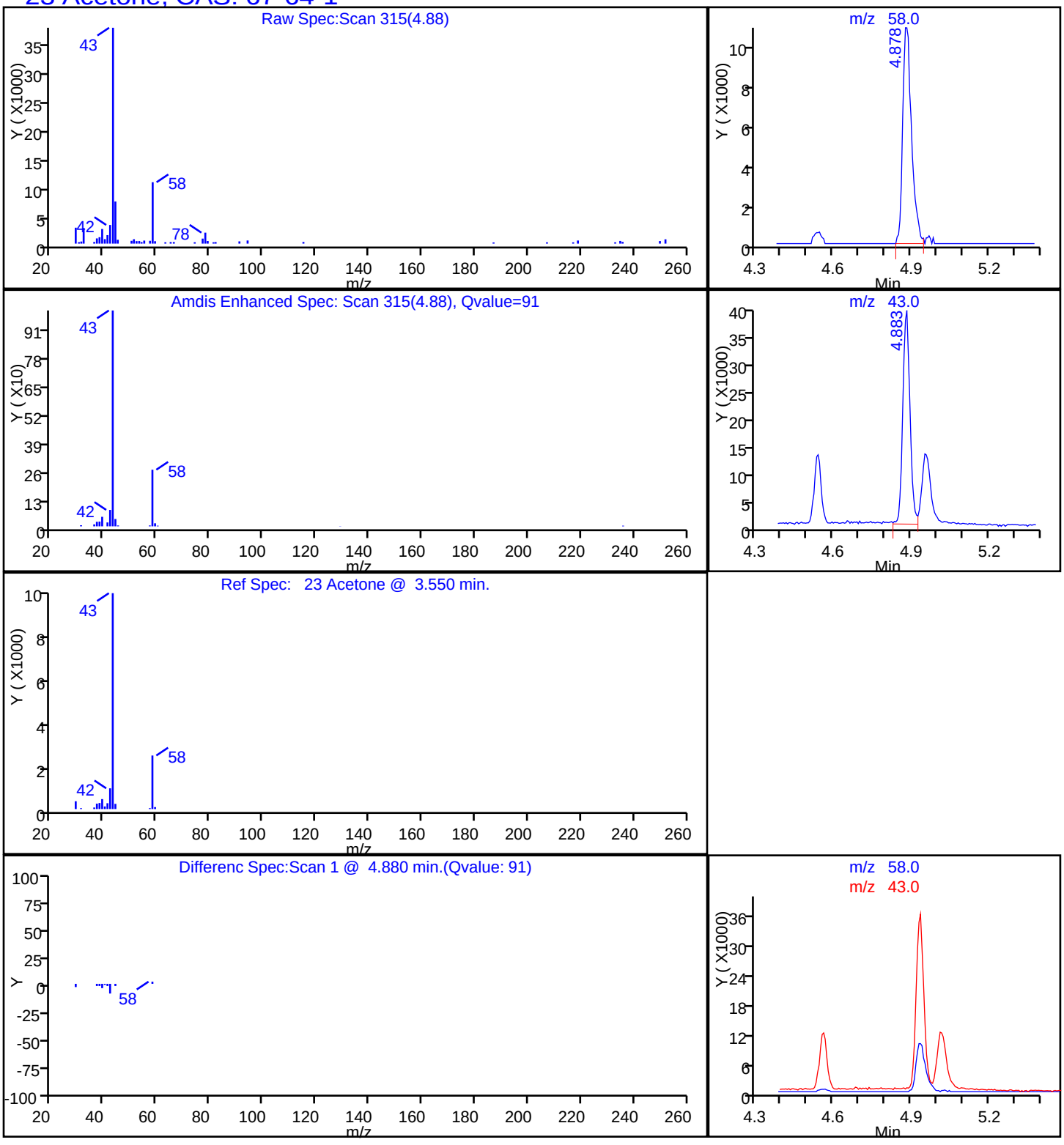
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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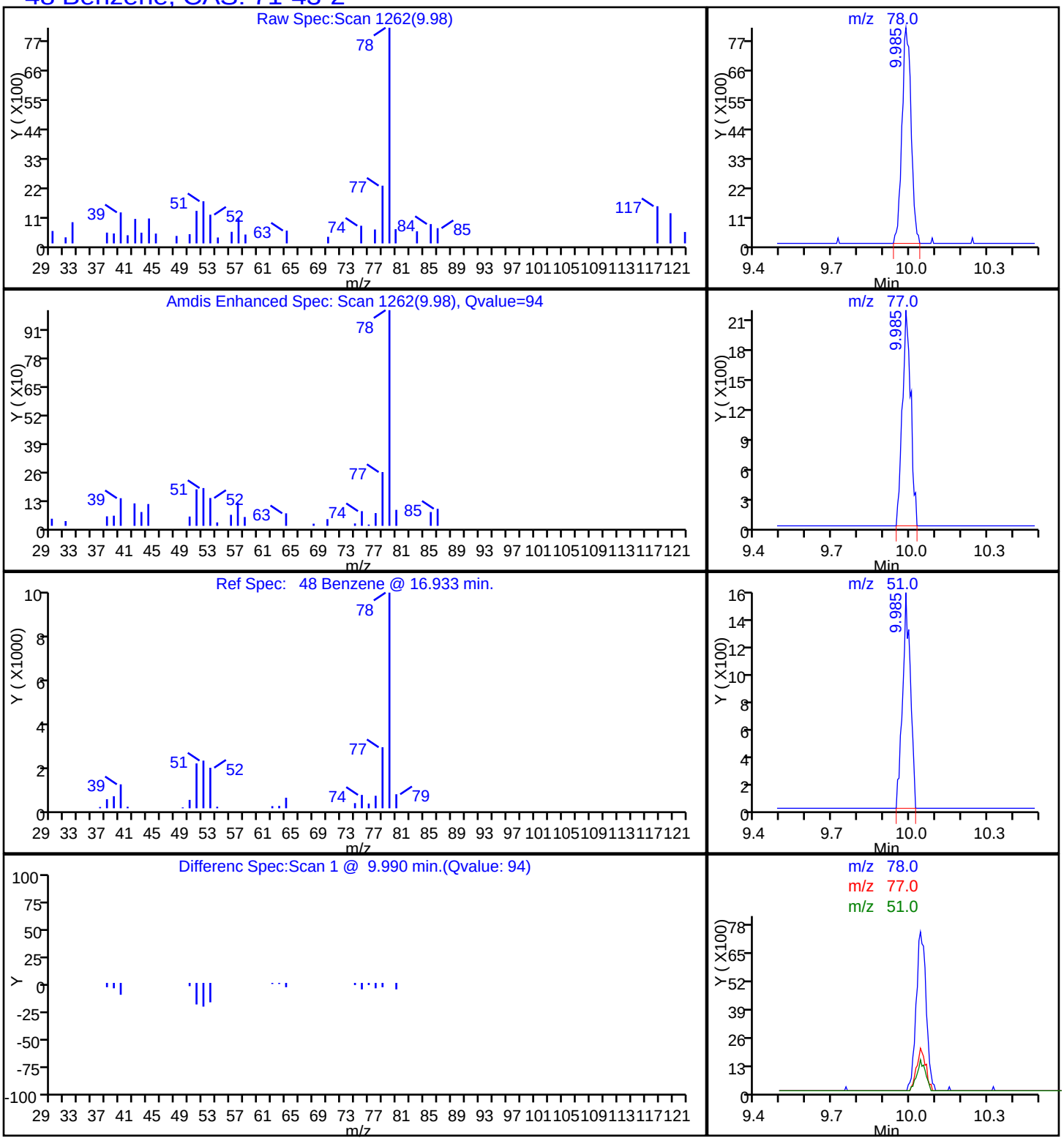
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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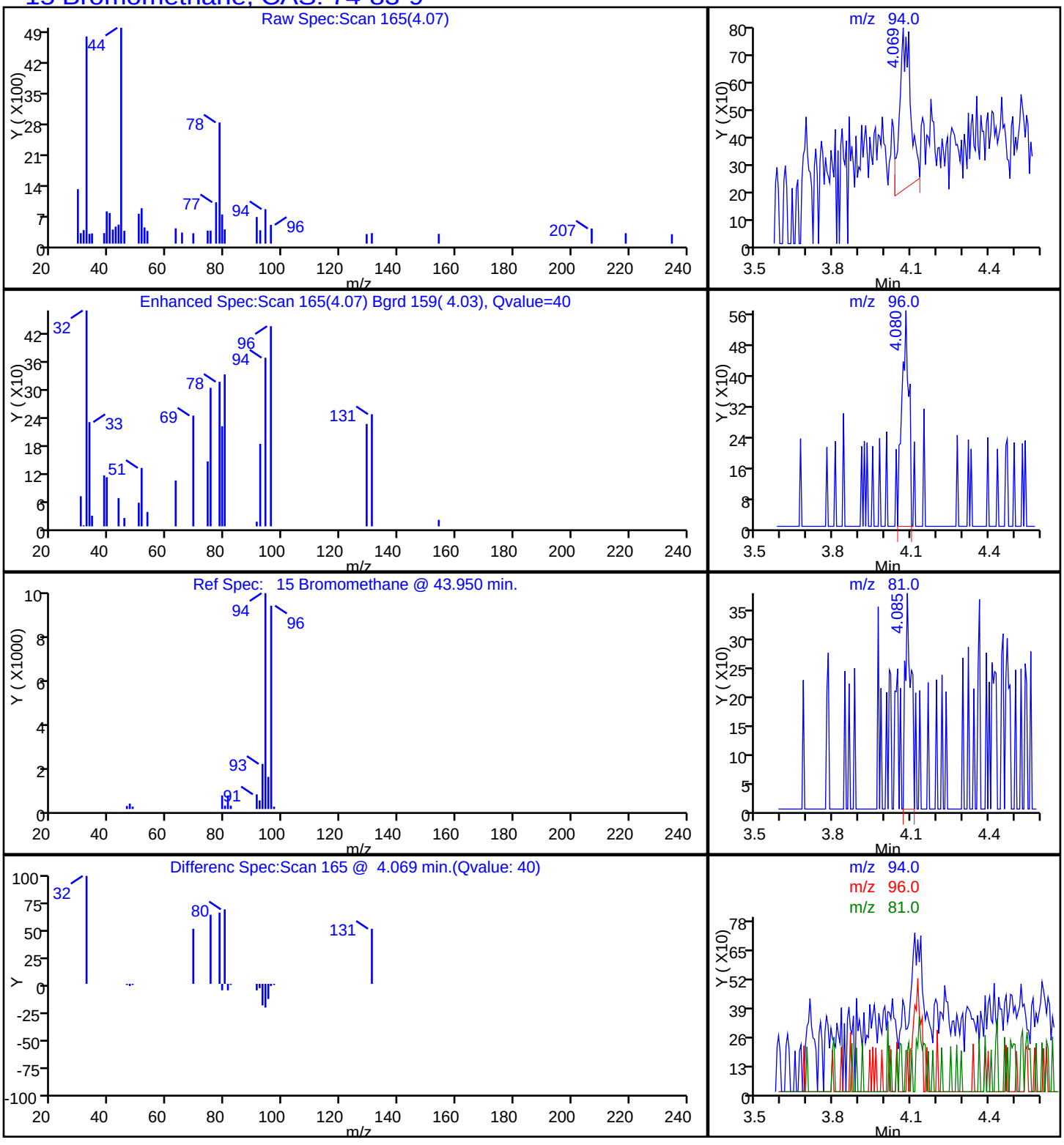
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



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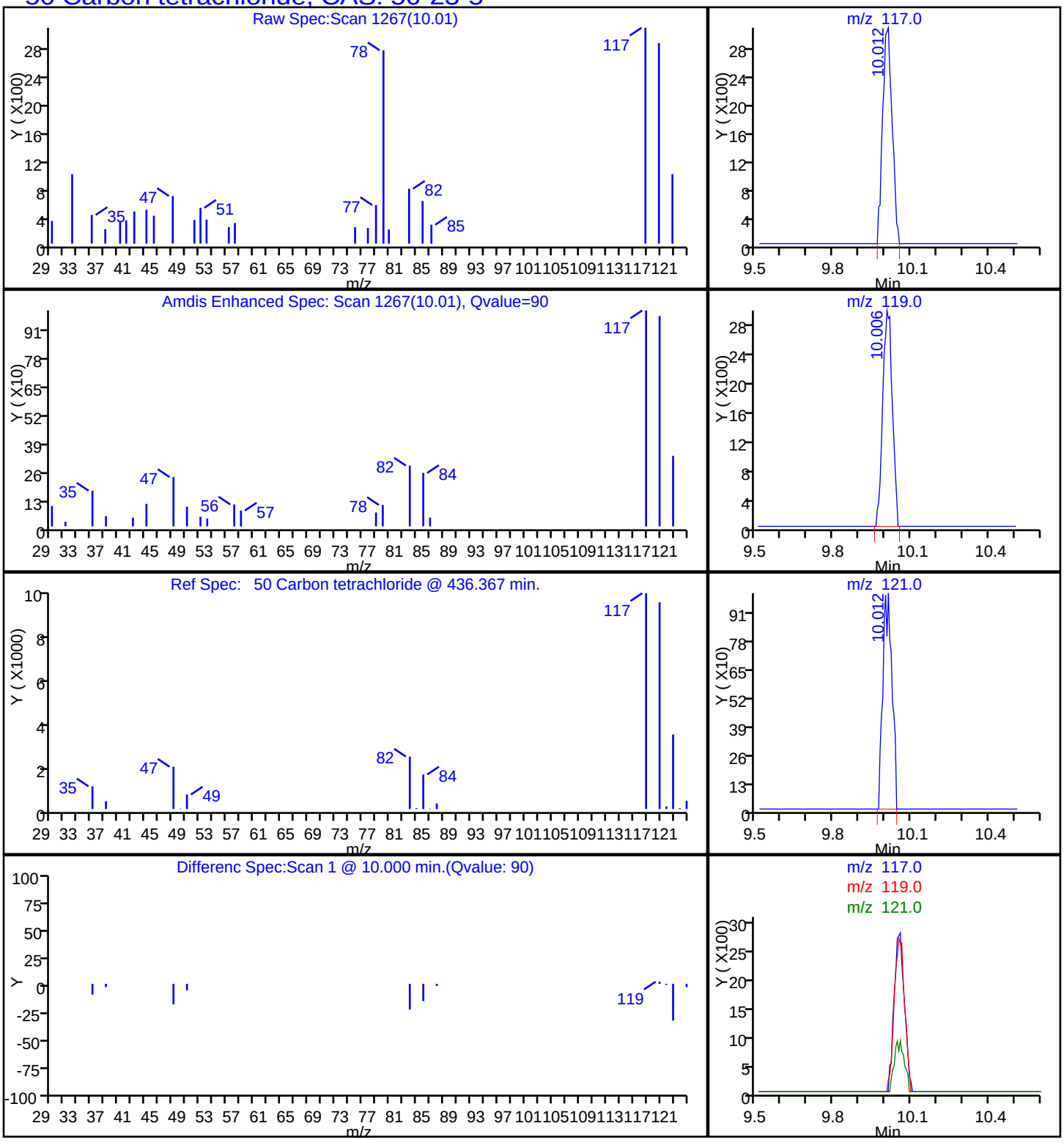
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

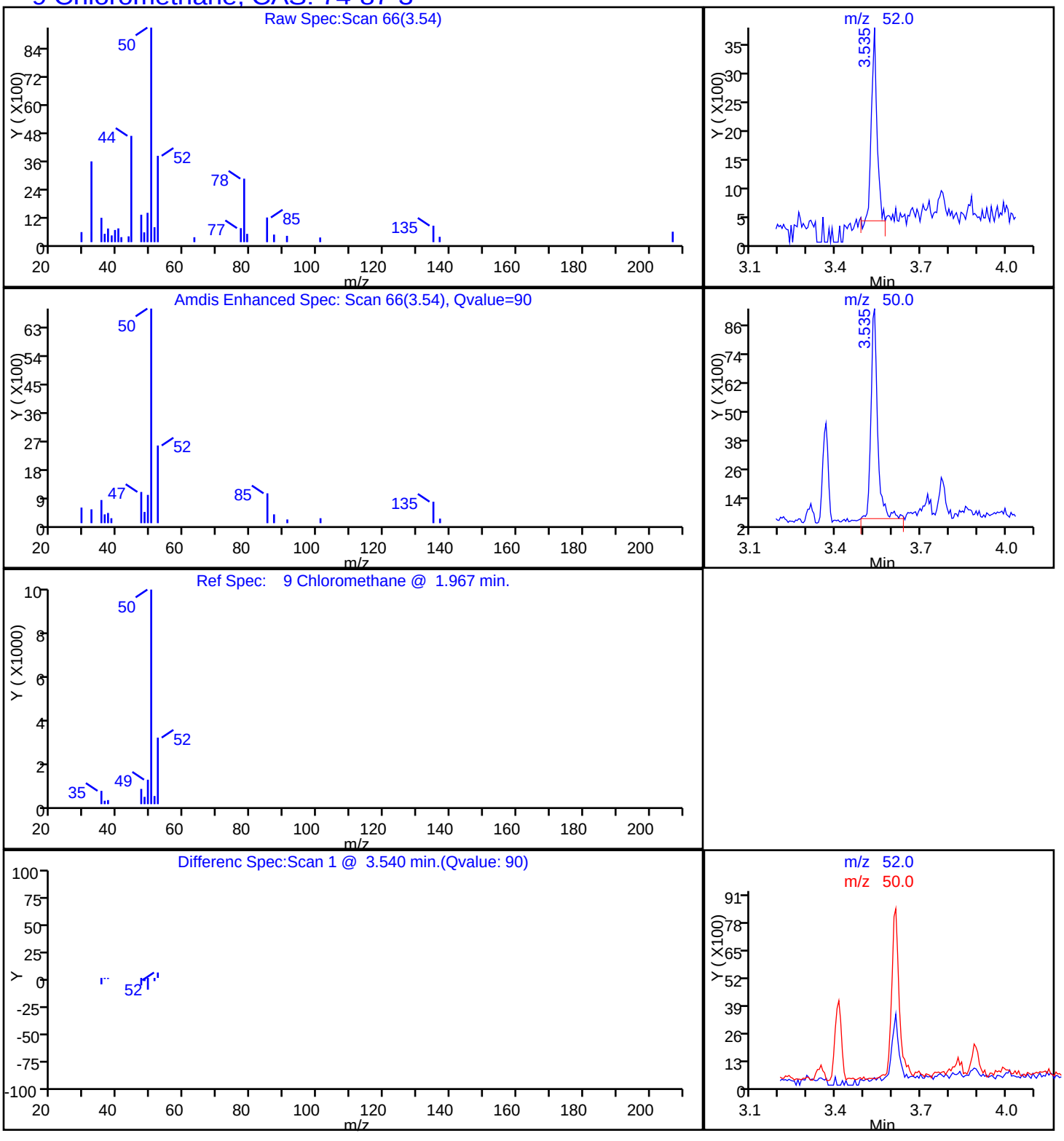
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

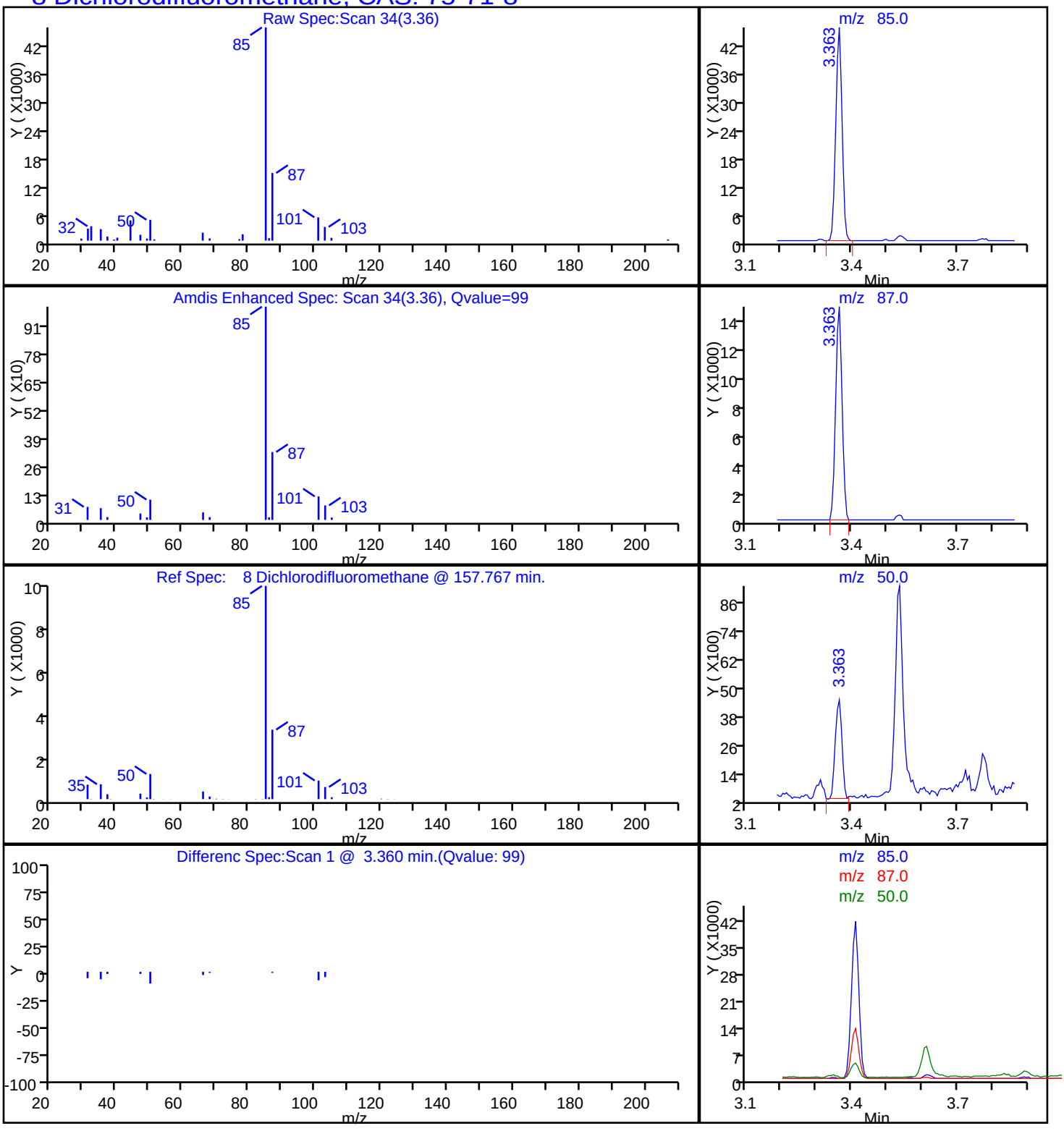
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

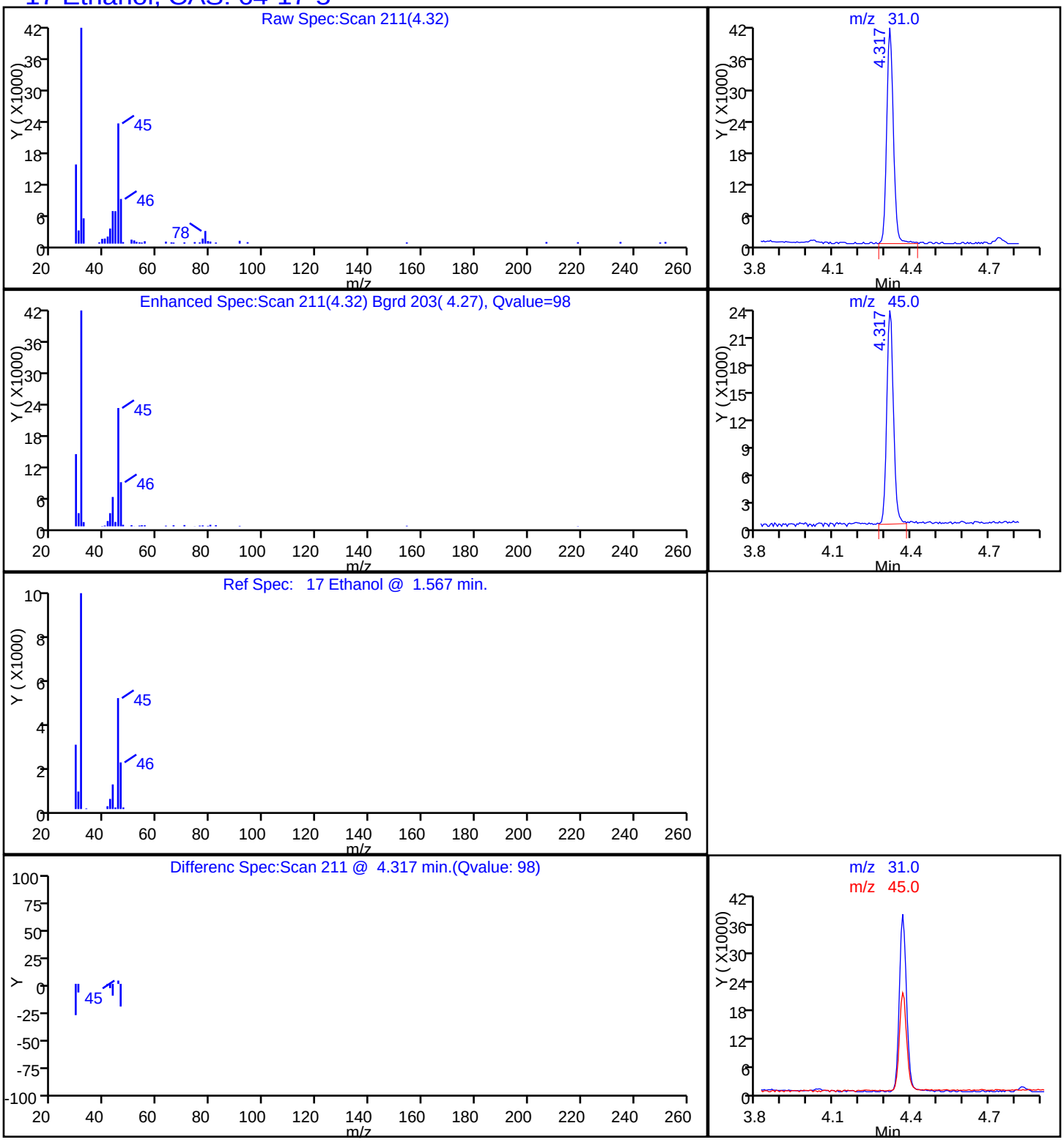
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5



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TestAmerica Knoxville

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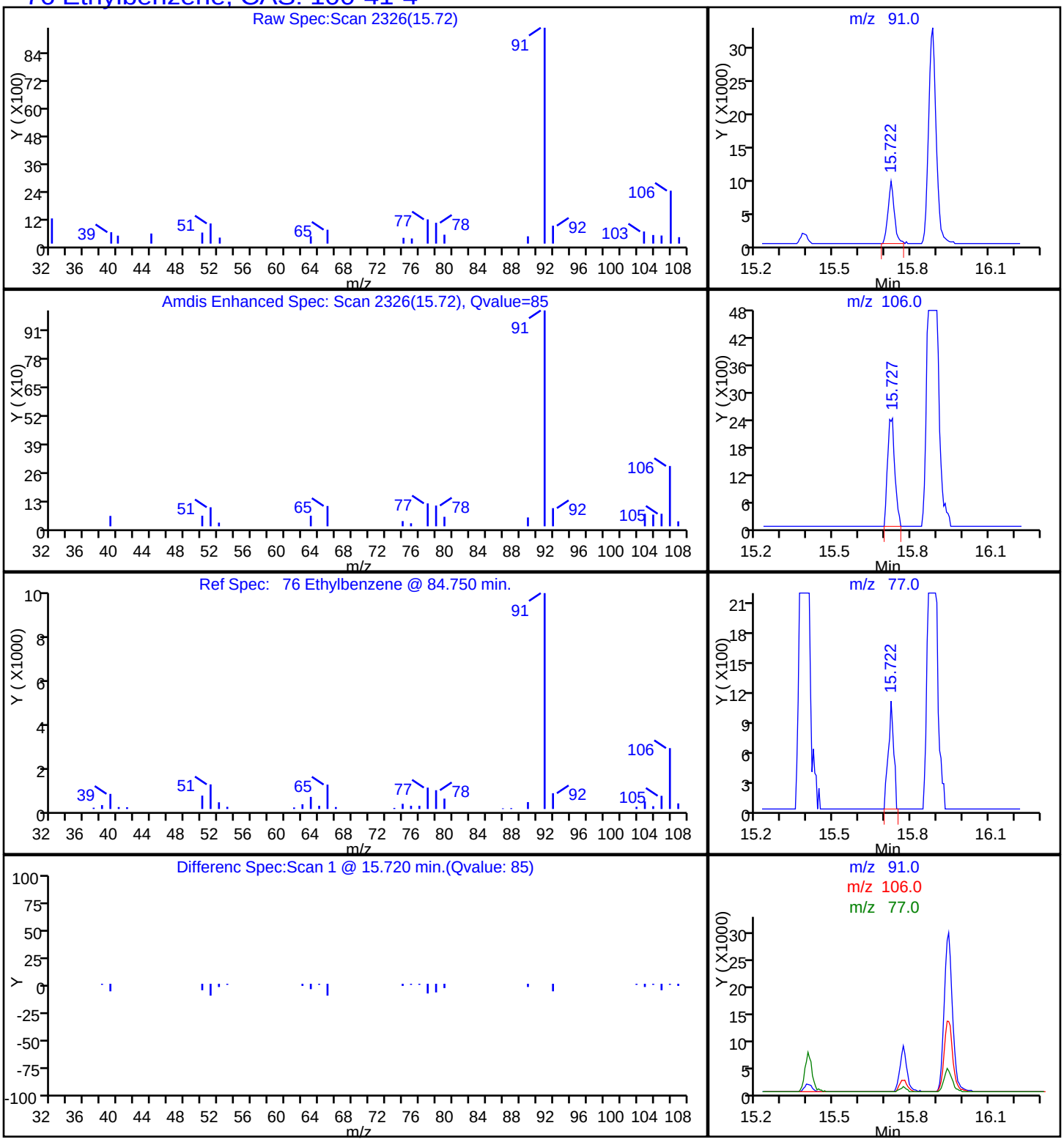
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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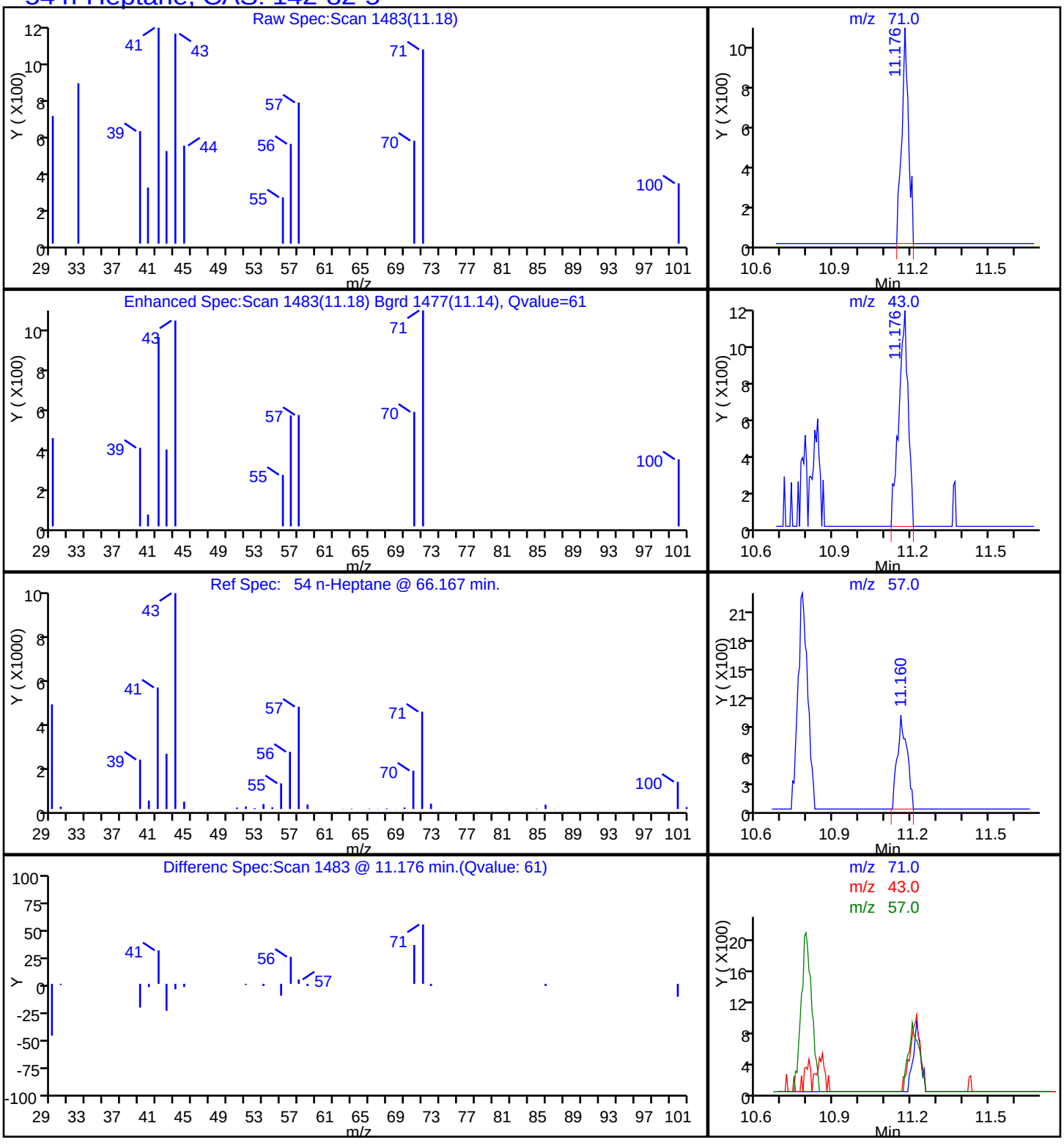
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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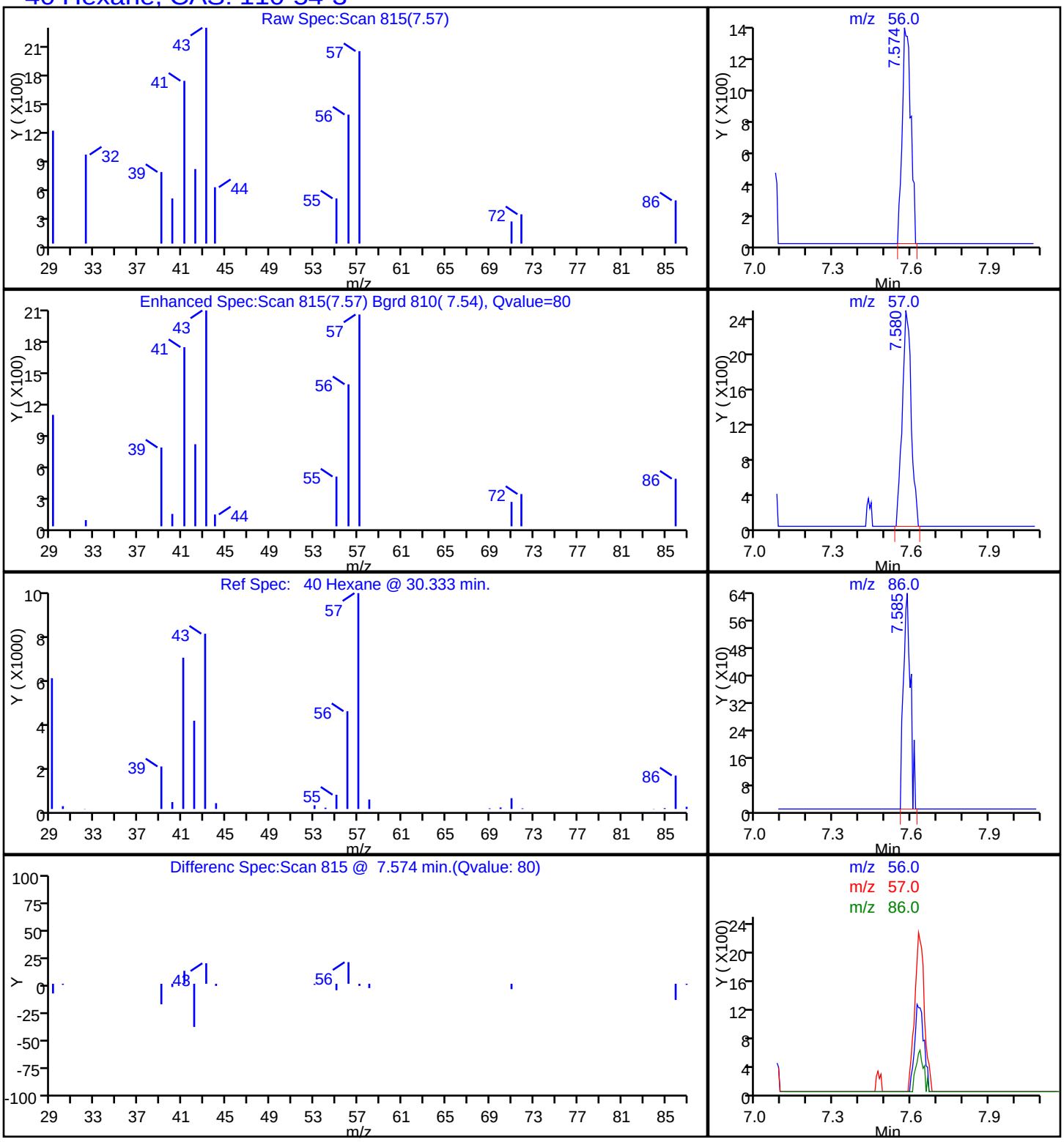
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3		
Client ID:	PCV-IA1-B6				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

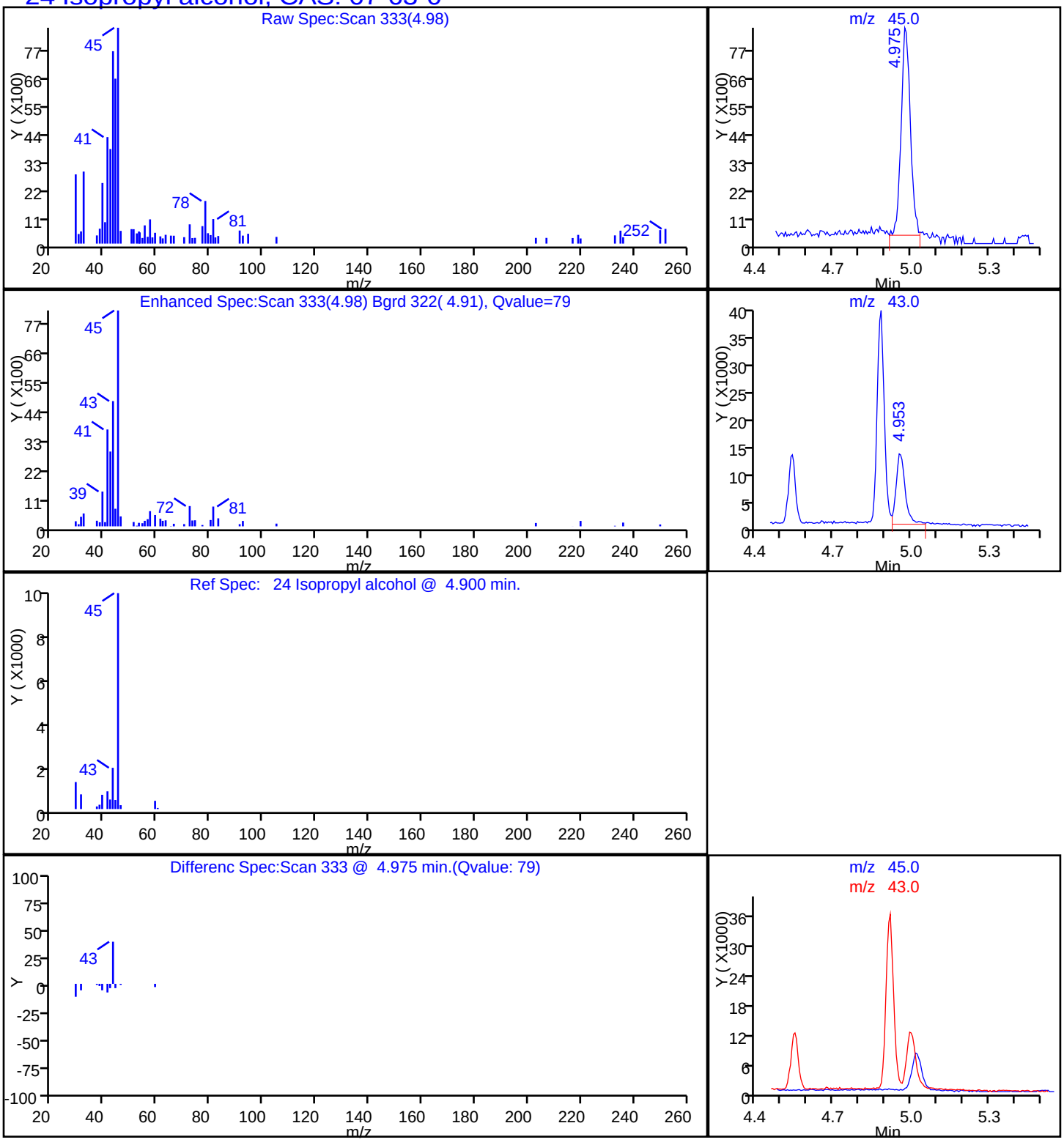
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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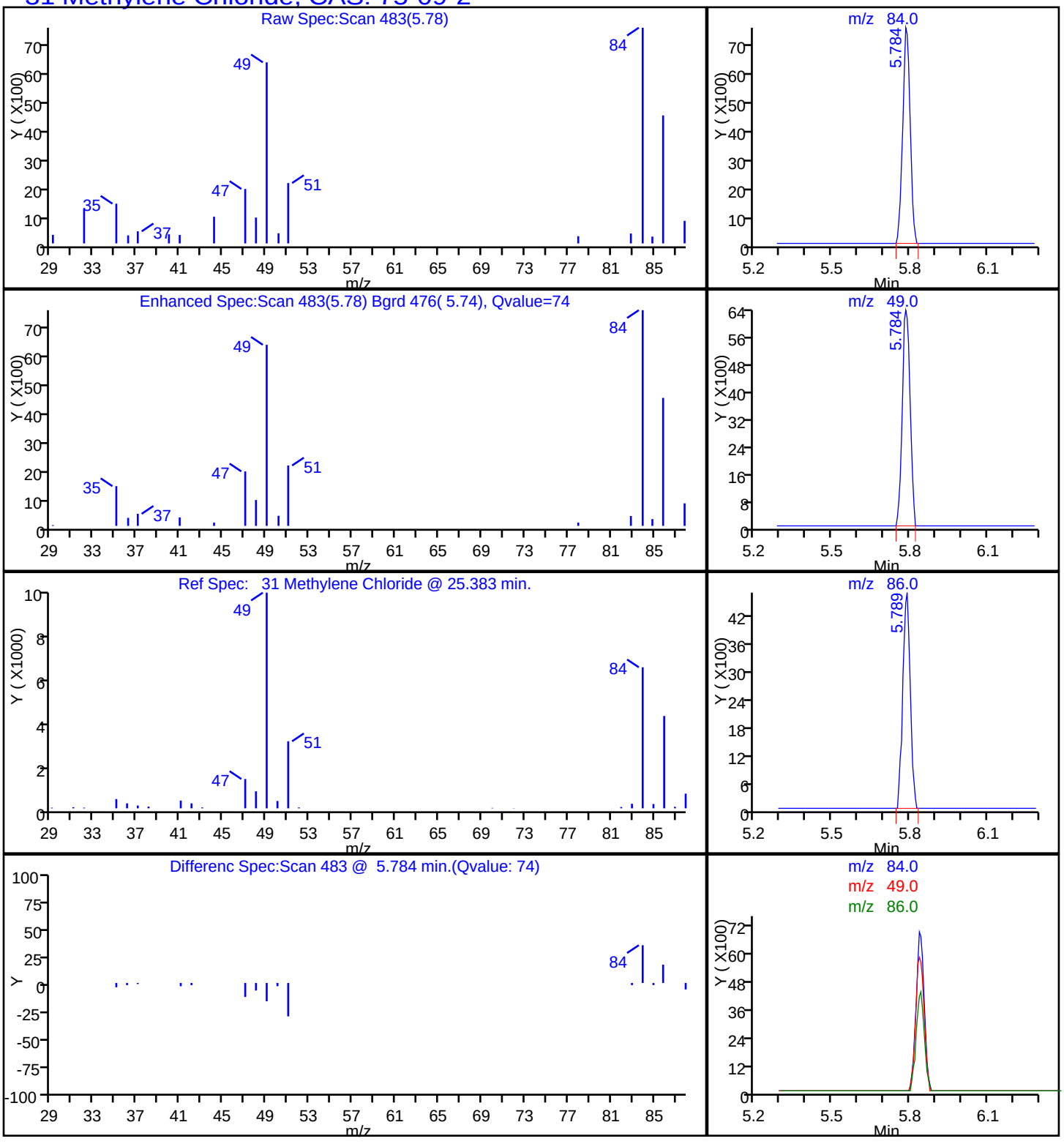
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



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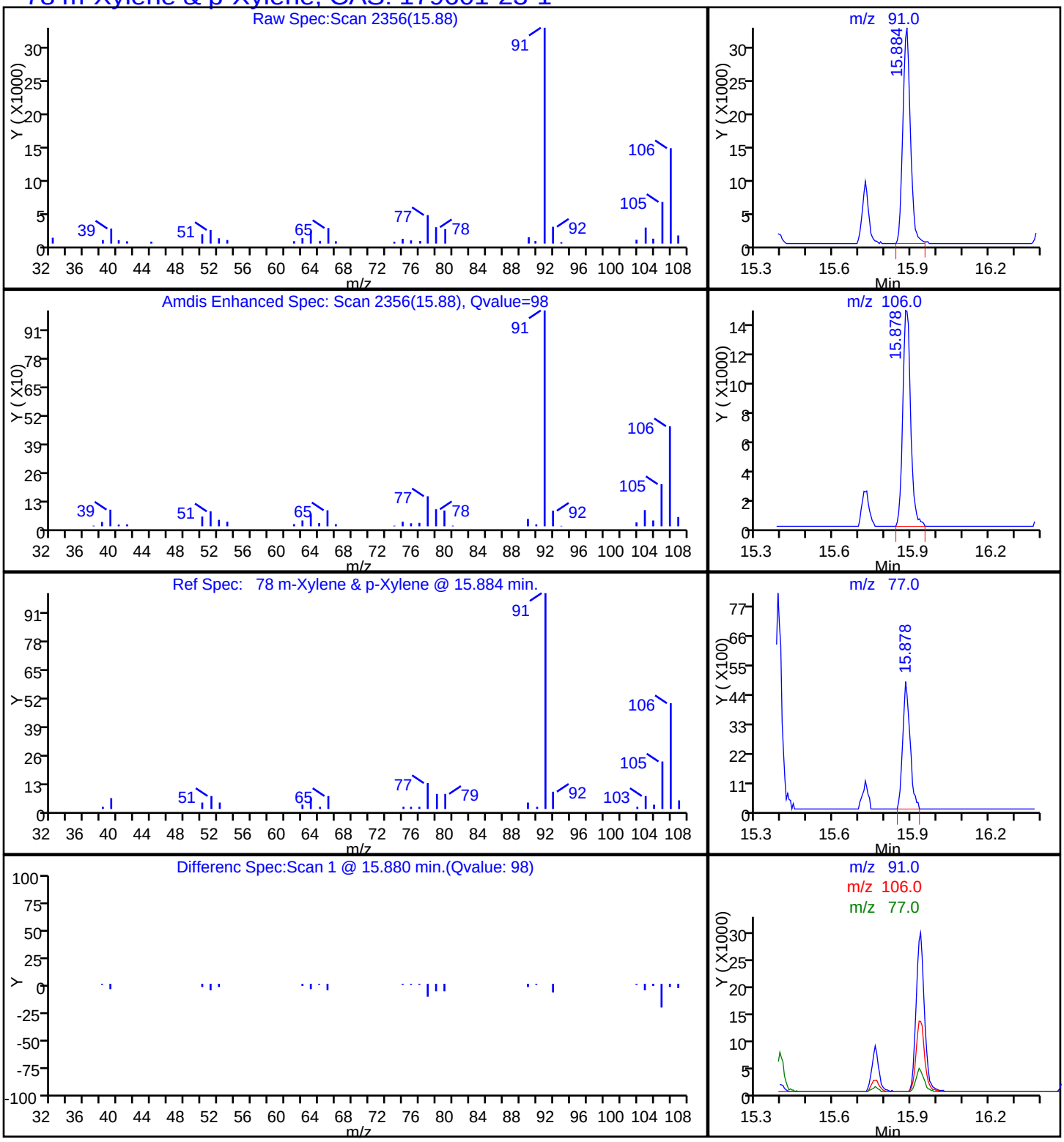
Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D				
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3		
Client ID:	PCV-IA1-B6				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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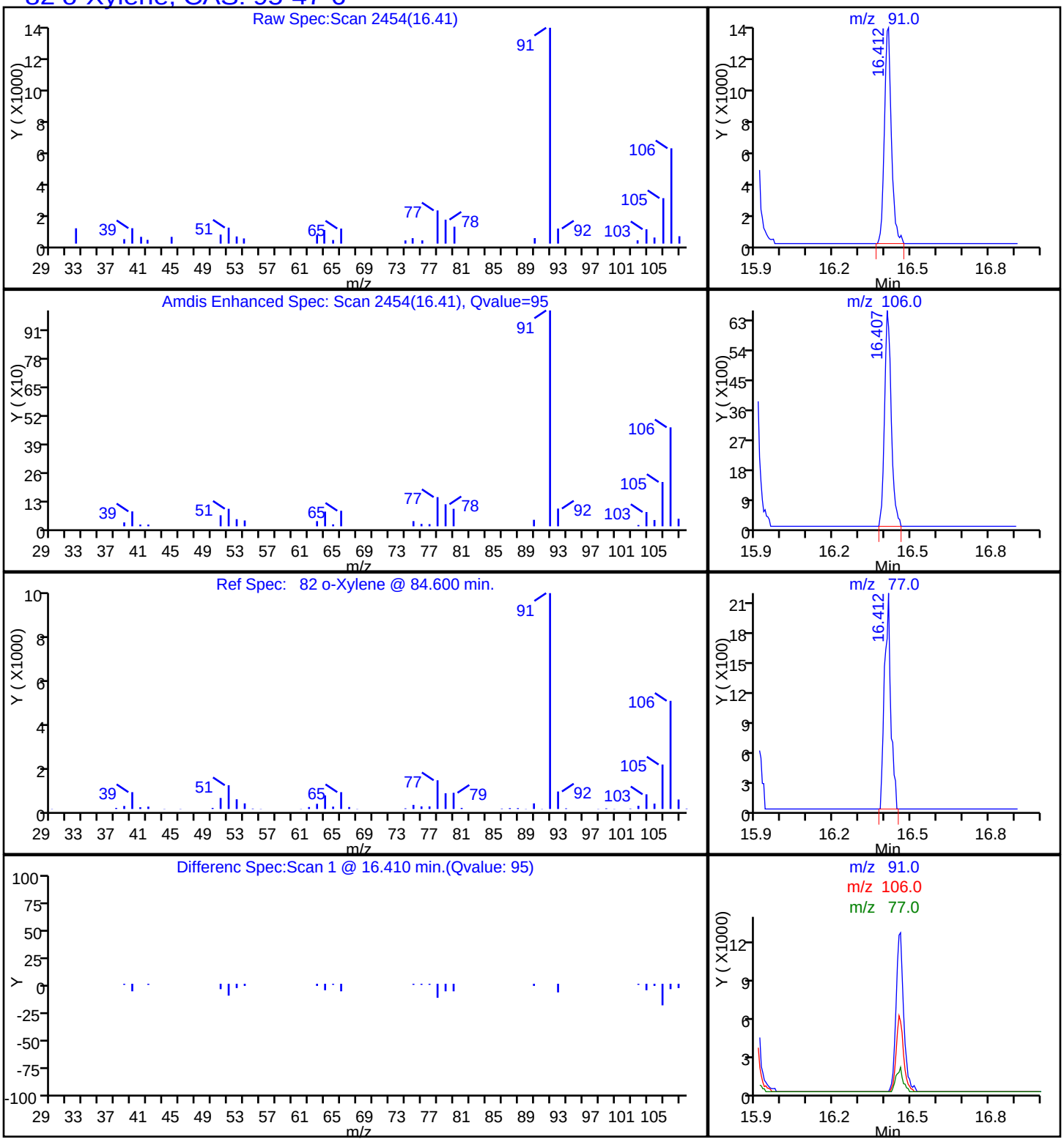
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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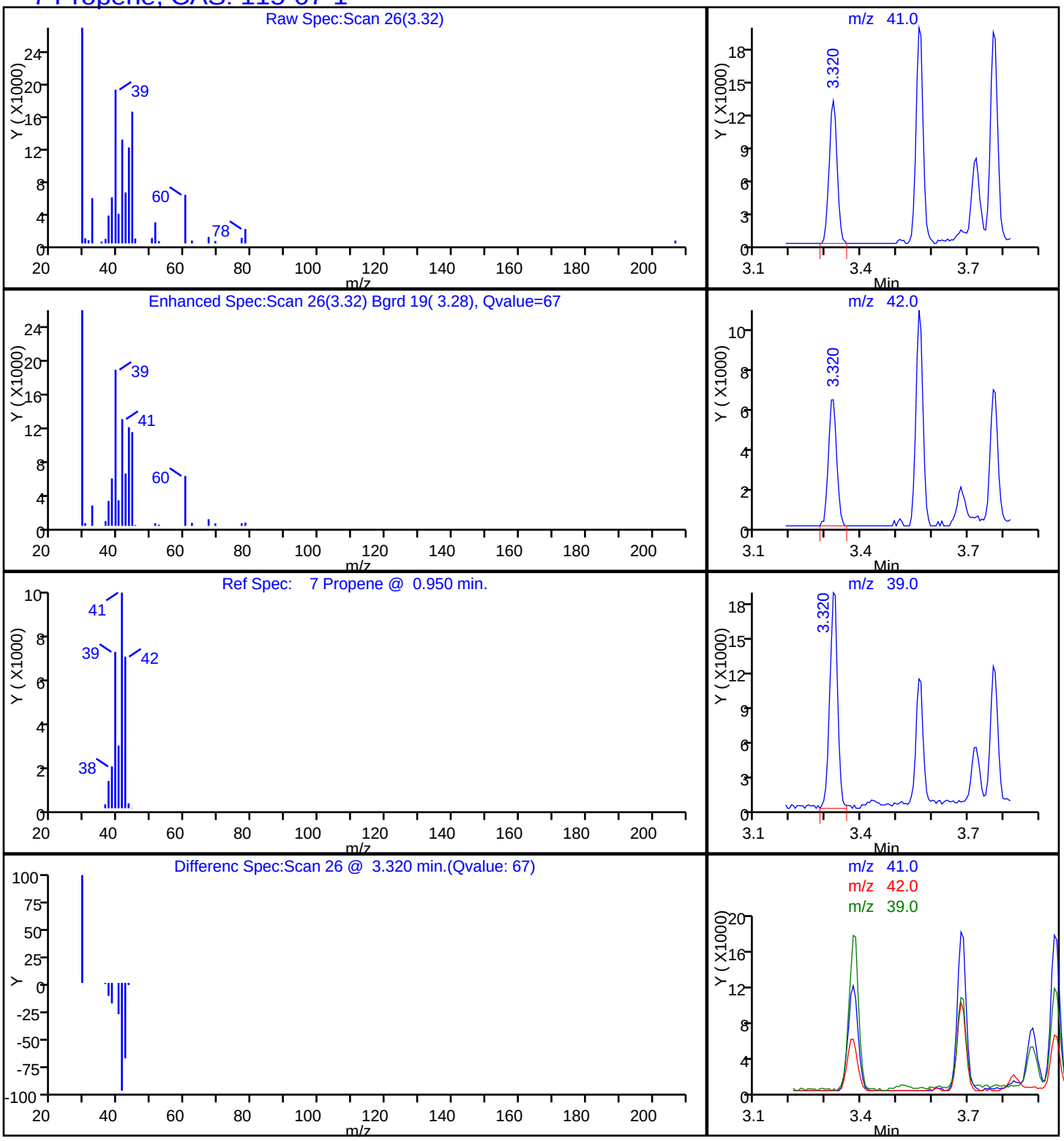
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



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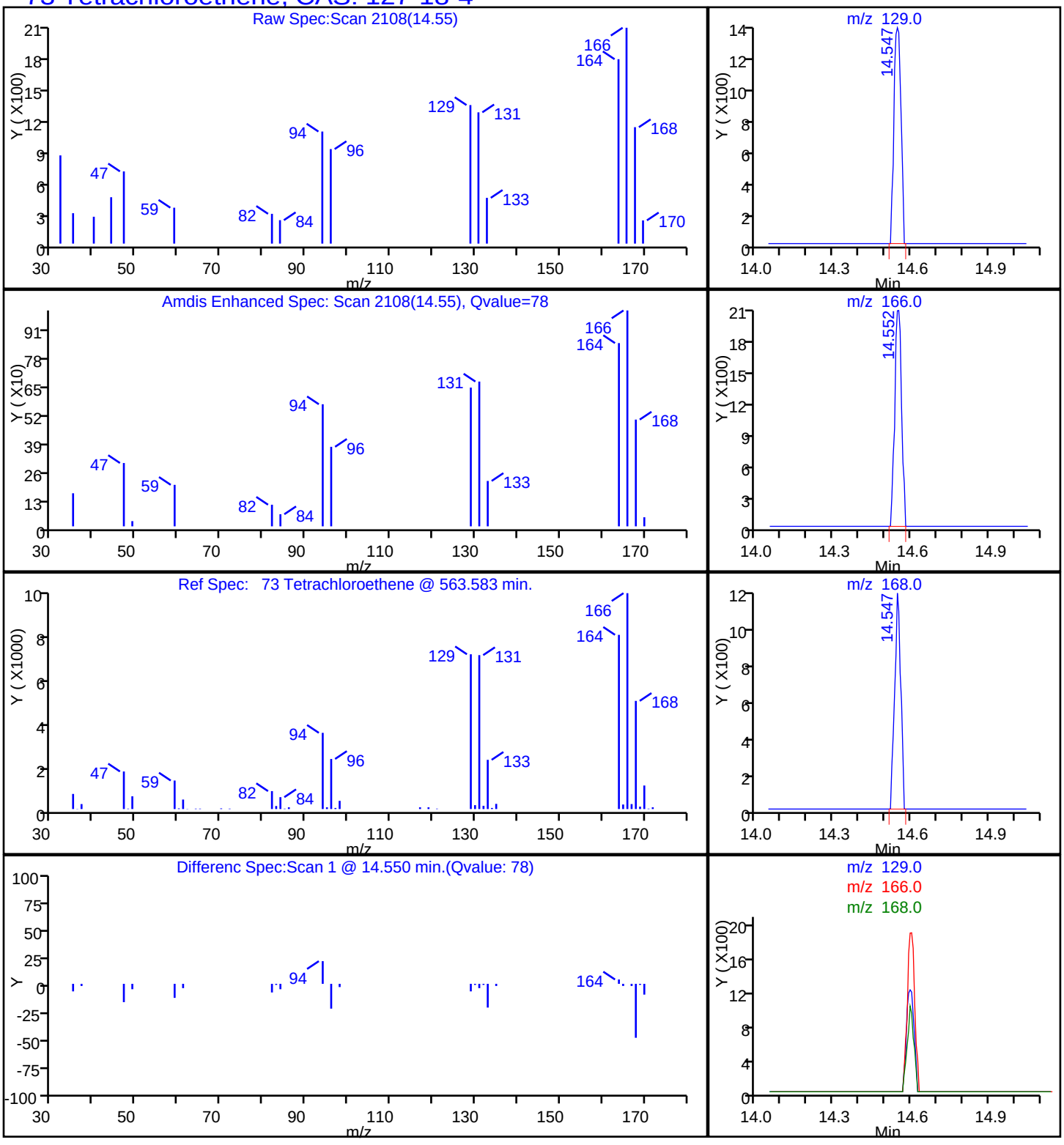
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

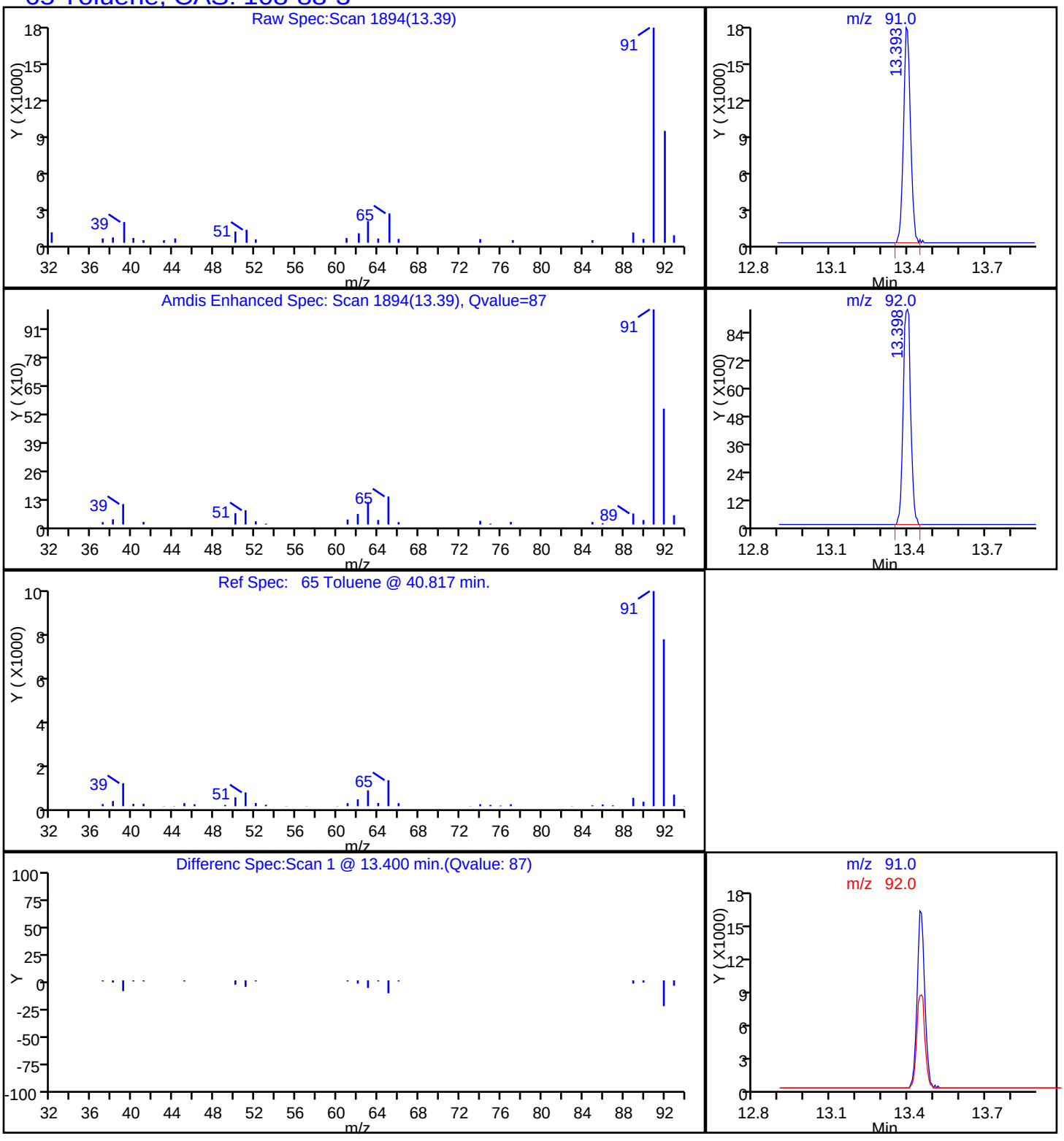


Report Date: 21-Mar-2014 09:30:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D		
Injection Date:	20-Mar-2014 16:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-3	Lab Sample ID:	140-1060-3
Client ID:	PCV-IA1-B6		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



Report Date: 21-Mar-2014 09:30:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P101.D

Injection Date: 20-Mar-2014 16:31:30 Instrument ID: ME

Lims ID: 140-1060-A-3 Lab Sample ID: 140-1060-3

Client ID: PCV-IA1-B6

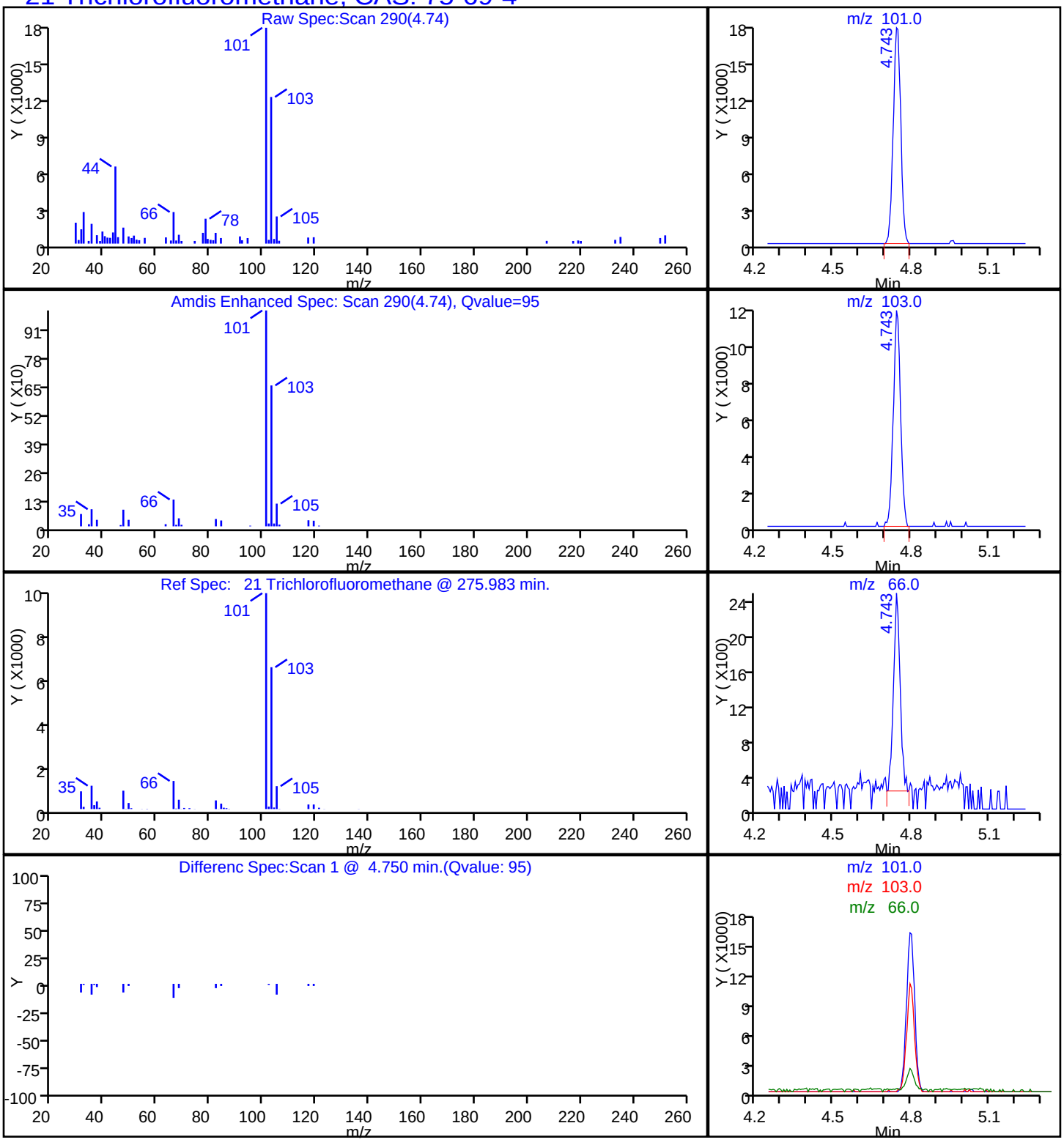
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.075	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.064	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.60		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.99		0.50	0.045
67-64-1	Acetone	58.08	3.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.16	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.038	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.076	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.45	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	8.0		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.22		0.20	0.068
142-82-5	Heptane	100.21	0.063	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.80	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.48	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.44		0.20	0.061
115-07-1	Propene	42.08	0.73	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.040	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.25		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.14	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.72	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.1		2.0	0.18
67-64-1	Acetone	58.08	8.1	J	12	3.3
71-43-2	Benzene	78.11	0.50	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.15	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.37	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.94	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	15		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.97		0.87	0.30
142-82-5	Heptane	100.21	0.26	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.37	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	5.7		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	1.9		0.87	0.26
115-07-1	Propene	42.08	1.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.27	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.93		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B6 Lab Sample ID: 140-1060-4

Matrix: Air Lab File ID: EC20P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 17:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D
Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4
Client ID: PCV-IA2-B6
Sample Type: Client
Inject. Date: 20-Mar-2014 17:15:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-4
Misc. Info.: E032014,TO155,,140-0000533-006
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 07:30:57 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:30:56

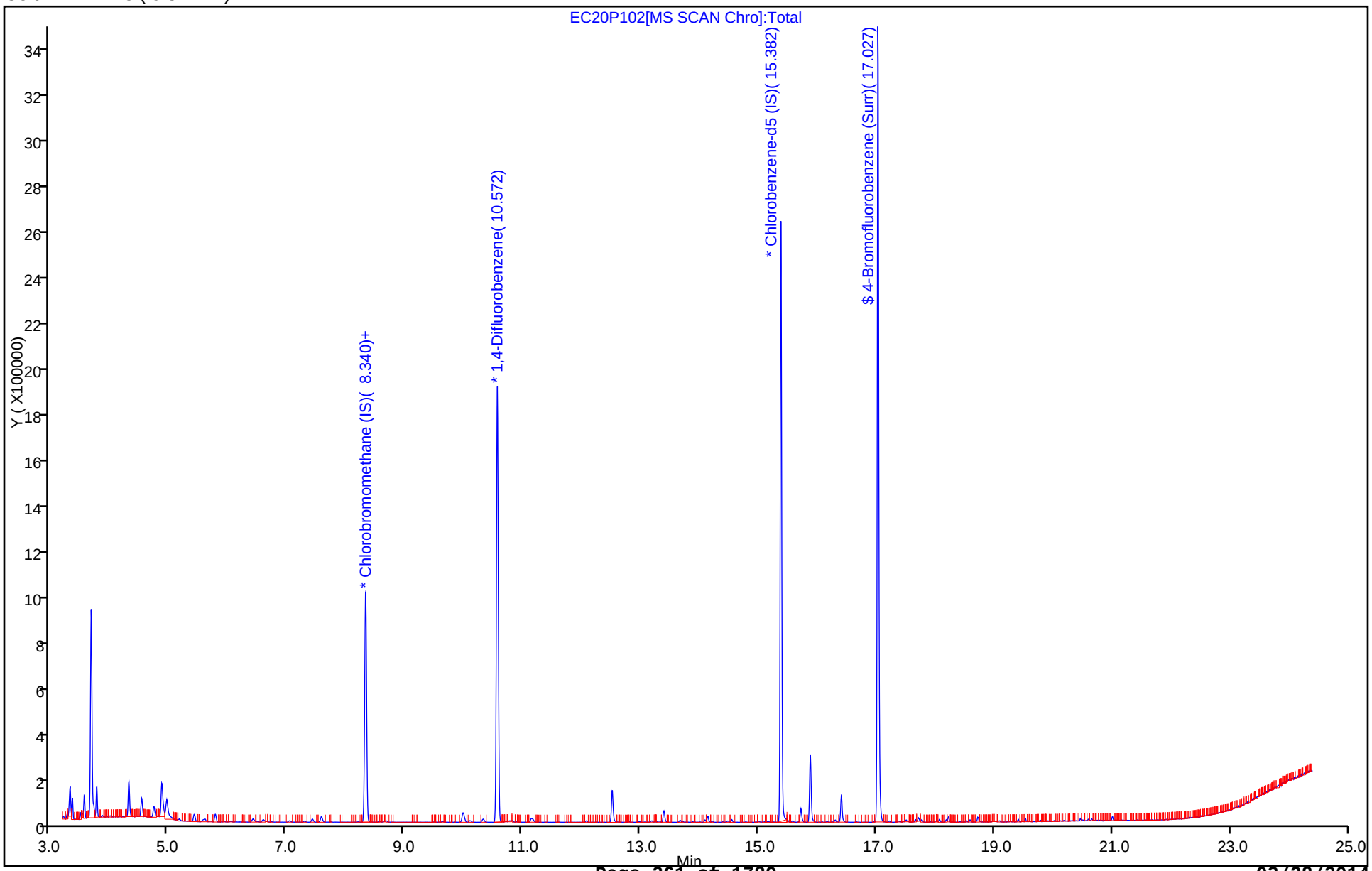
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	69	330228	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1677640	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1454155	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1192688	3.75	
7 Propene	41	3.319	3.314	0.005	74	24247	0.2919	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	65375	0.1790	
9 Chloromethane	52	3.535	3.530	0.005	97	5306	0.1820	
13 Butadiene	54	3.783	3.772	0.011	29	2001	0.0257	
15 Bromomethane	94	4.074	4.080	-0.006	70	1848	0.0152	
17 Ethanol	31	4.317	4.317	0.0	98	105954	3.21	
19 2-Methylbutane	43	4.538	4.538	0.0	85	27910	0.2413	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	95	36217	0.0988	
23 Acetone	58	4.878	4.883	-0.005	93	68183	1.36	
24 Isopropyl alcohol	45	4.975	4.970	0.005	76	41375	0.3213	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.611	0.006	78	6189	0.0273	
31 Methylene Chloride	84	5.784	5.789	-0.005	74	18045	0.1912	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	89	5249	0.0971	
40 Hexane	56	7.585	7.585	0.0	61	3710	0.0422	
43 Chloroform	83	8.345	8.356	-0.011	17	8591	0.0304	
48 Benzene	78	9.990	9.995	-0.005	94	21301	0.0631	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	93	8587	0.0265	
54 n-Heptane	71	11.182	11.182	0.0	56	3245	0.0254	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	90	78770	0.3962	
65 Toluene	91	13.398	13.398	0.0	89	38463	0.0987	
73 Tetrachloroethene	129	14.546	14.552	-0.006	76	2683	0.0162	
76 Ethylbenzene	91	15.722	15.722	0.0	97	44644	0.0894	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	205693	0.5238	
82 o-Xylene	91	16.412	16.412	0.0	96	74371	0.1752	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	79	13387	0.0300	

Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D				
Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4	Worklist Smp#:	6
Client ID:	PCV-IA2-B6				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date: 20-Mar-2014 17:15:30 Instrument ID: ME

Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4

Client ID: PCV-IA2-B6

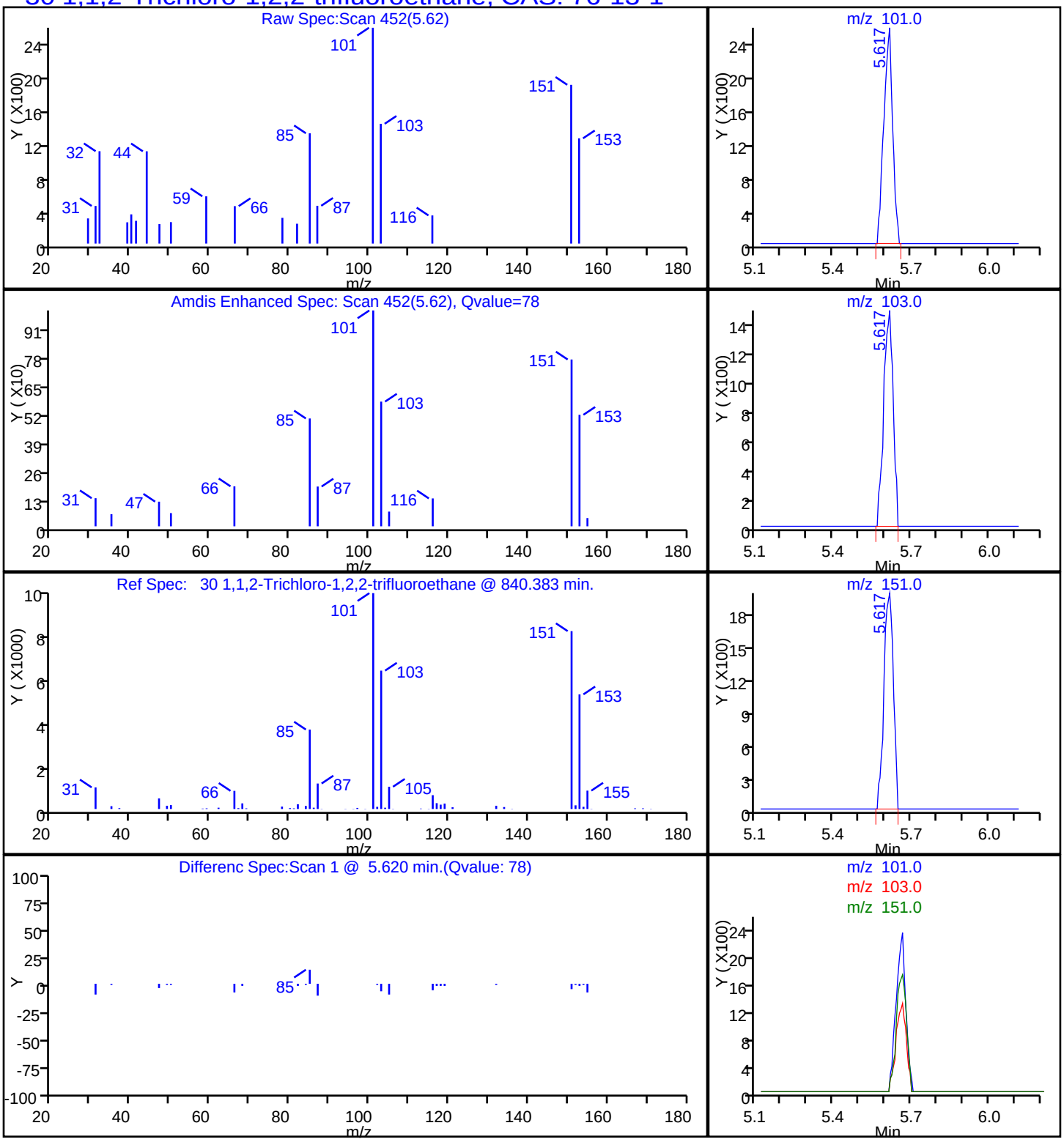
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



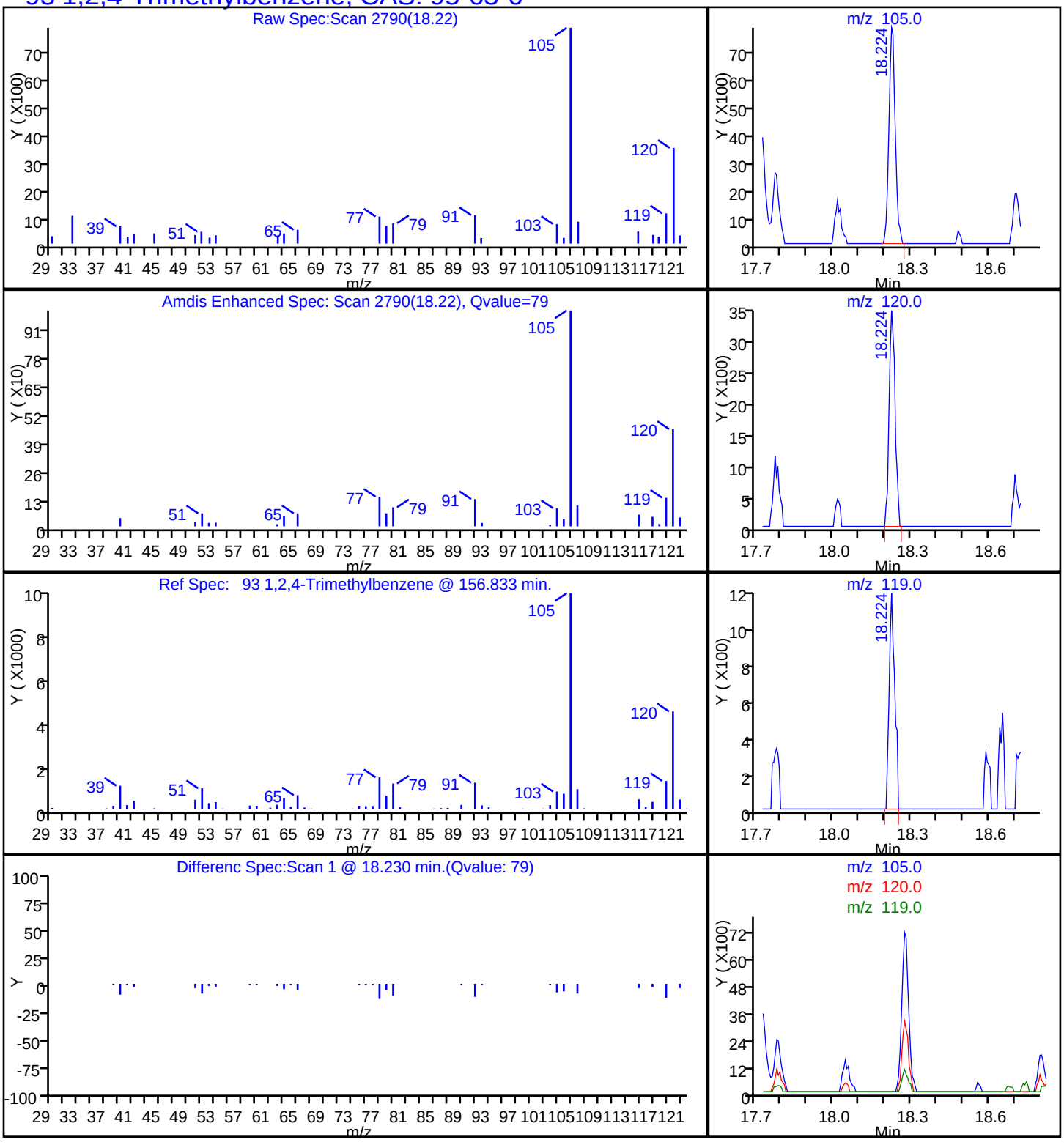
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



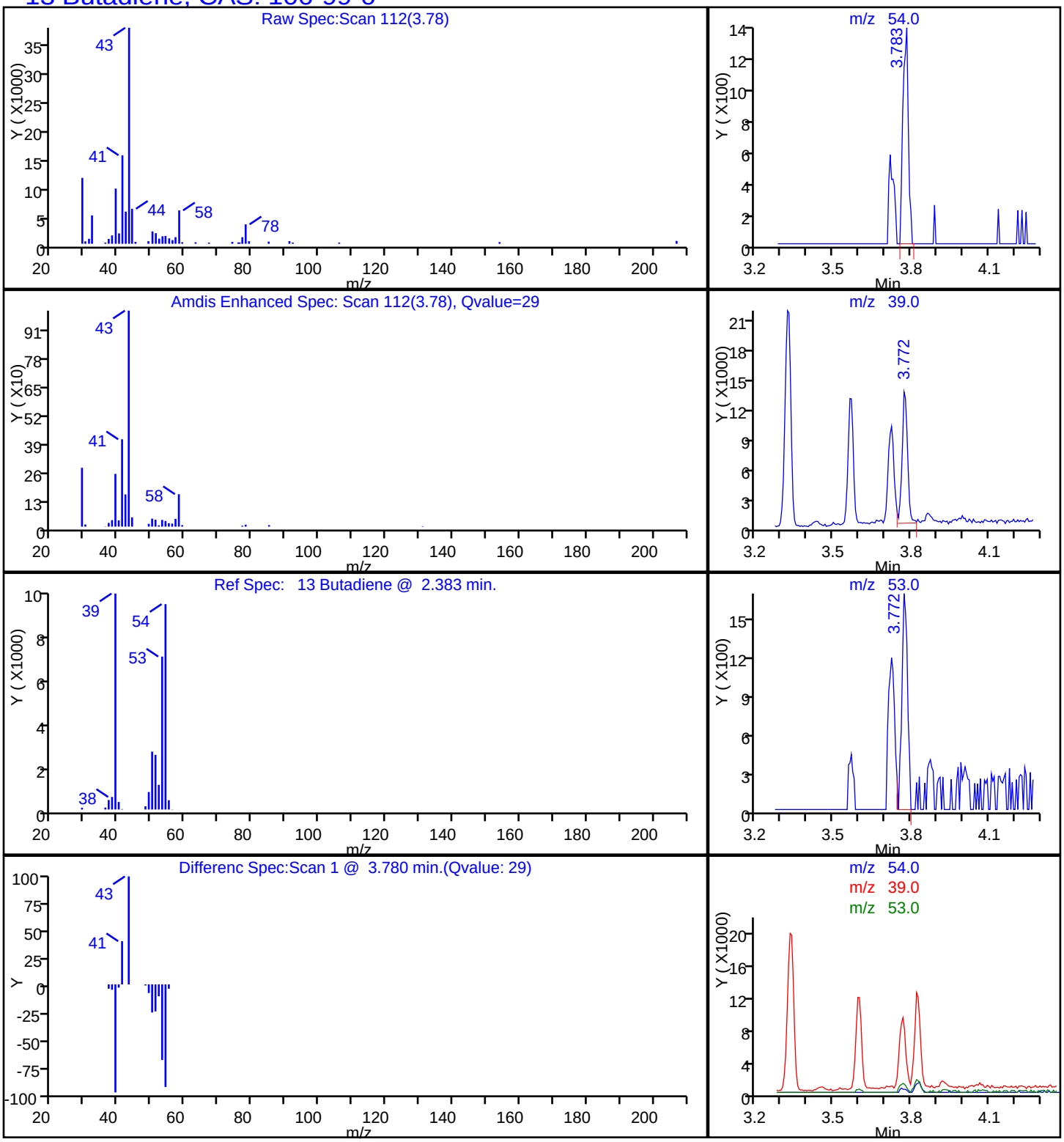
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



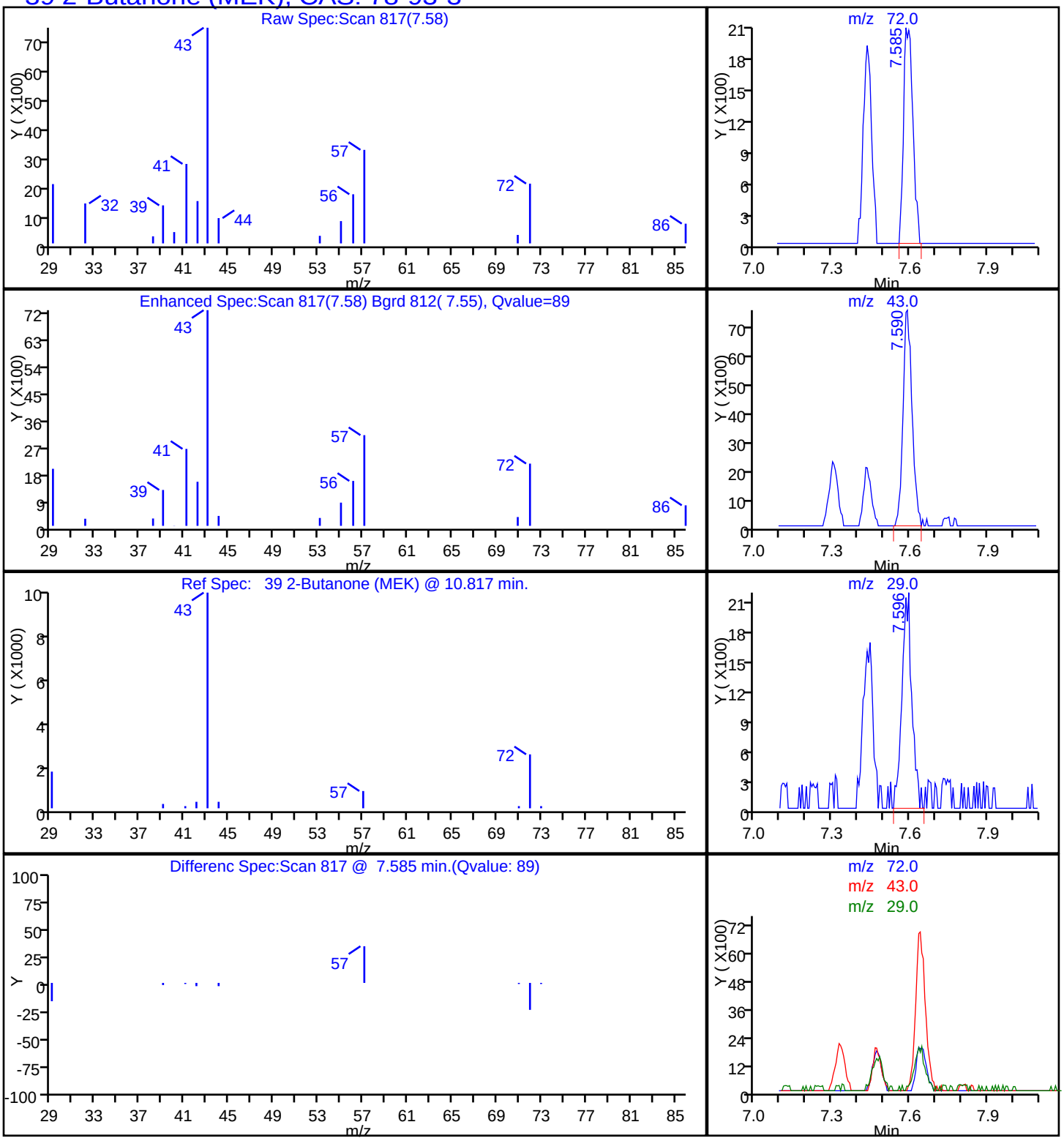
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



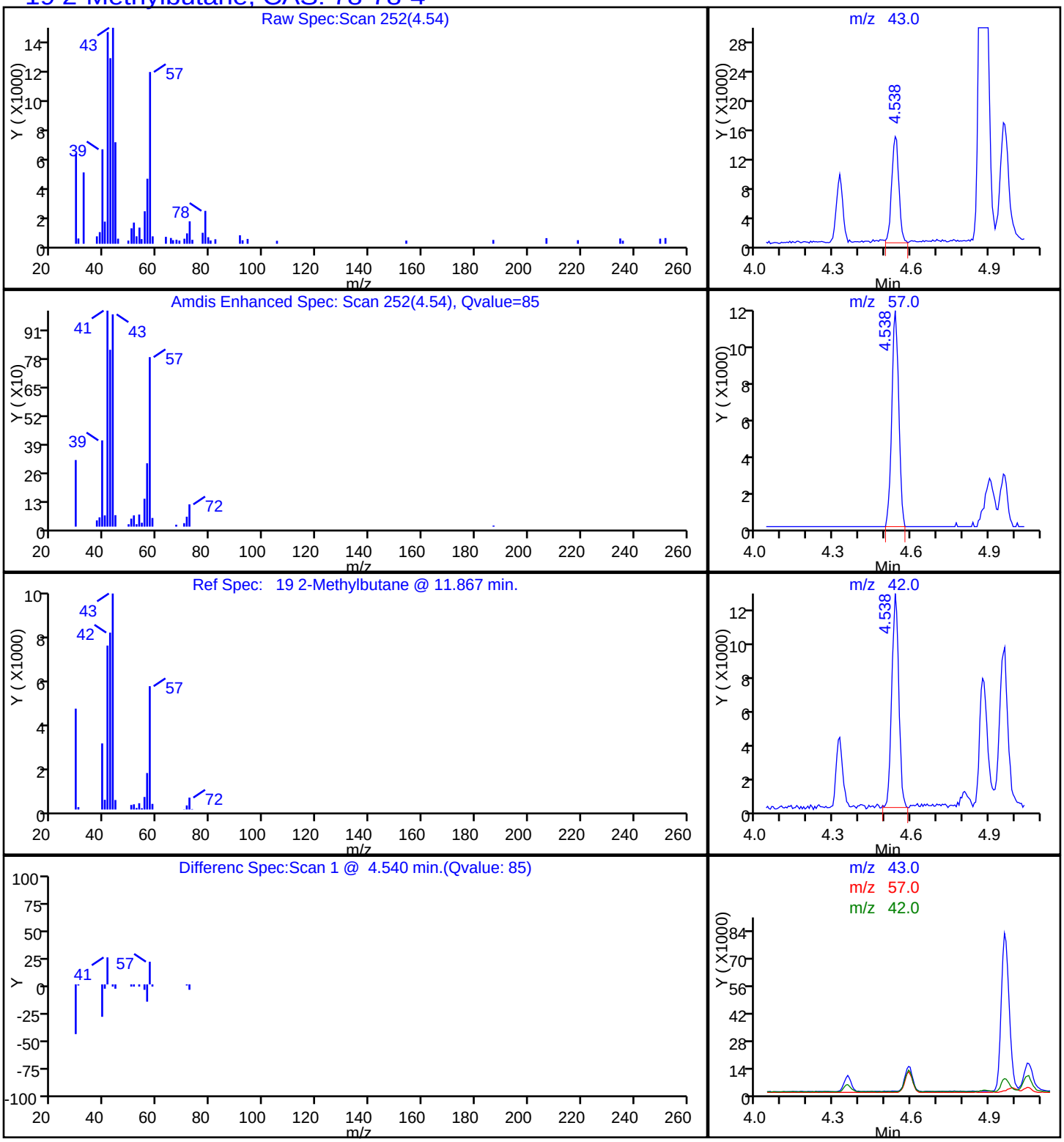
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date: 20-Mar-2014 17:15:30 Instrument ID: ME

Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4

Client ID: PCV-IA2-B6

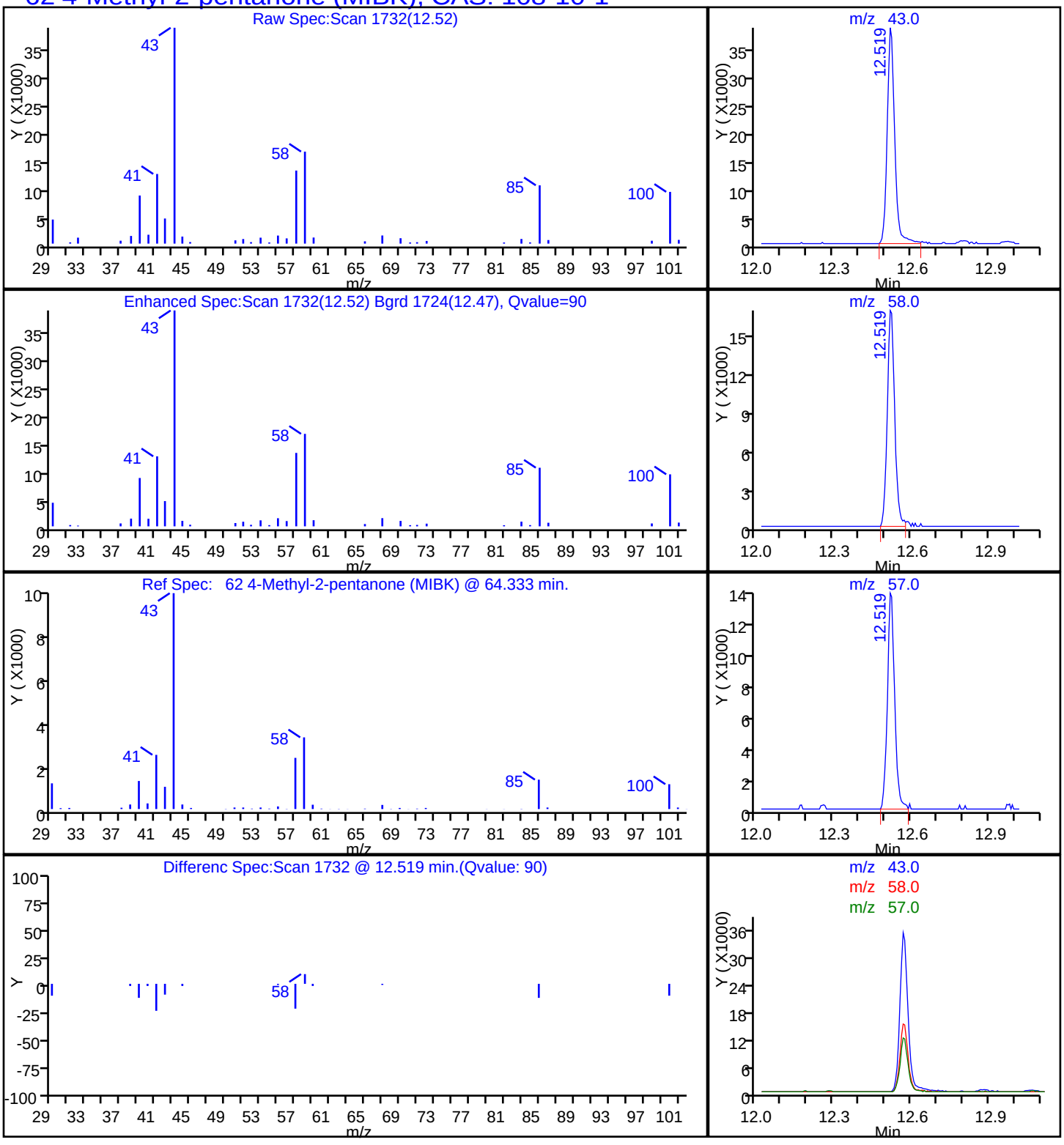
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



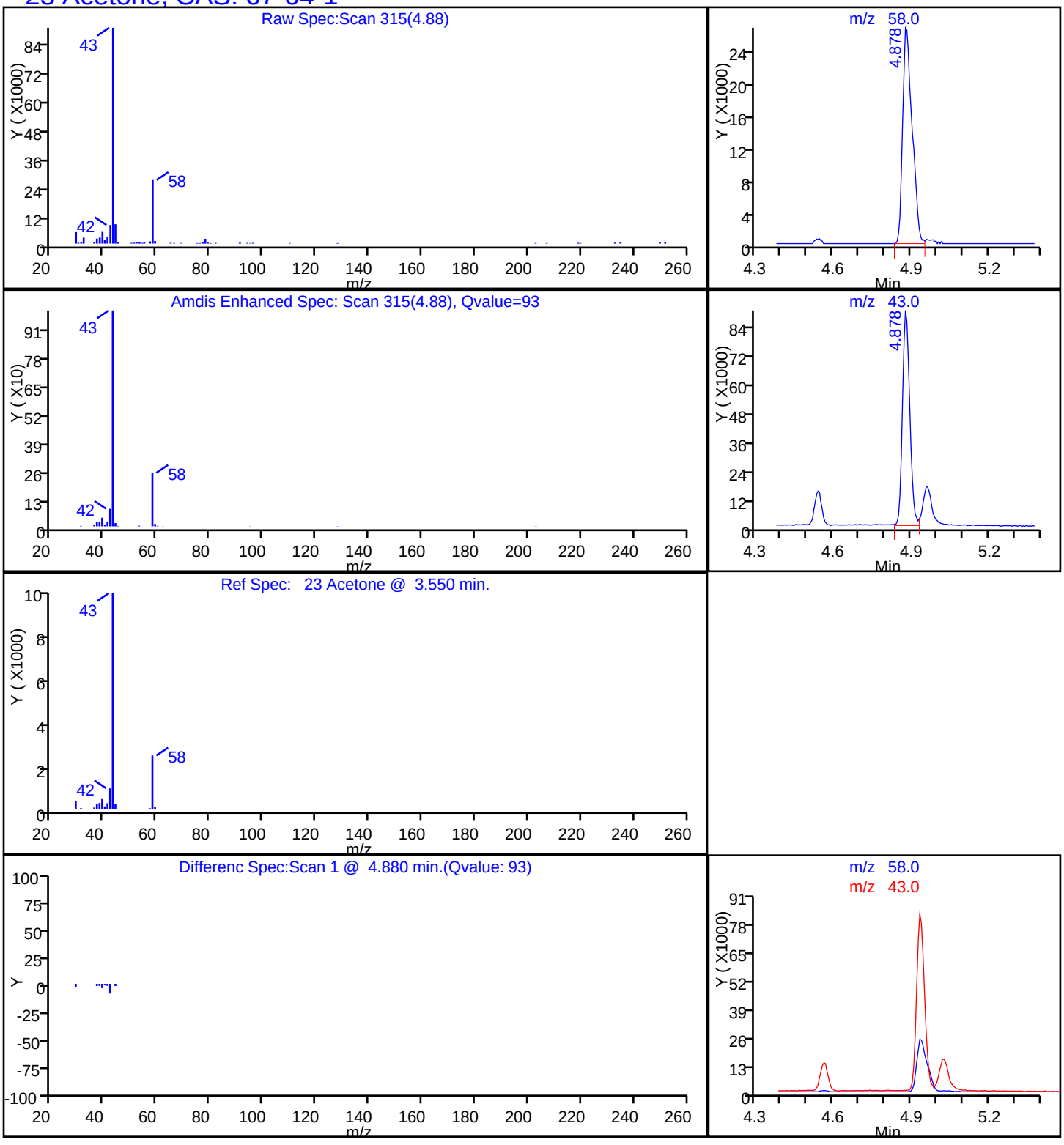
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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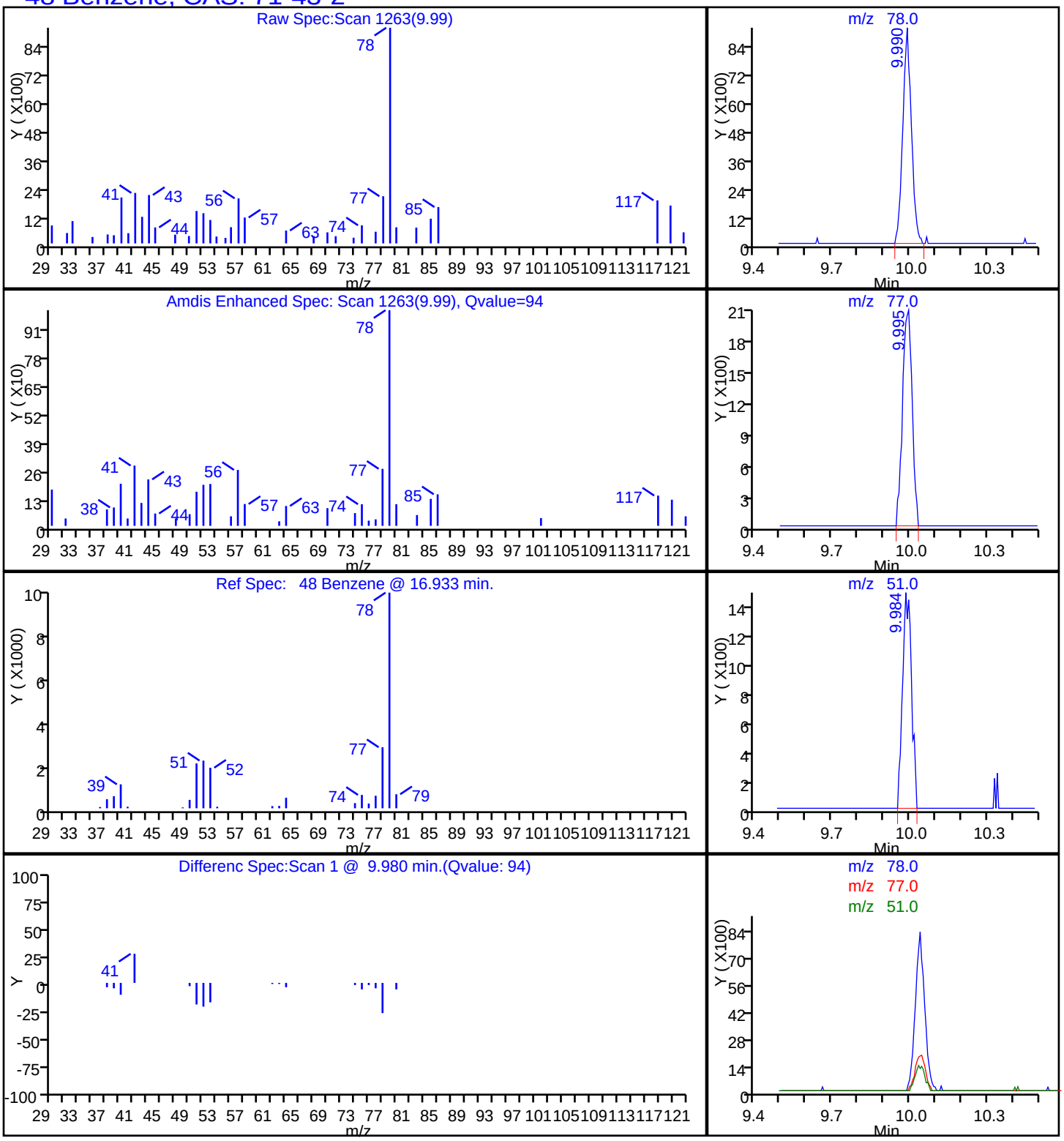
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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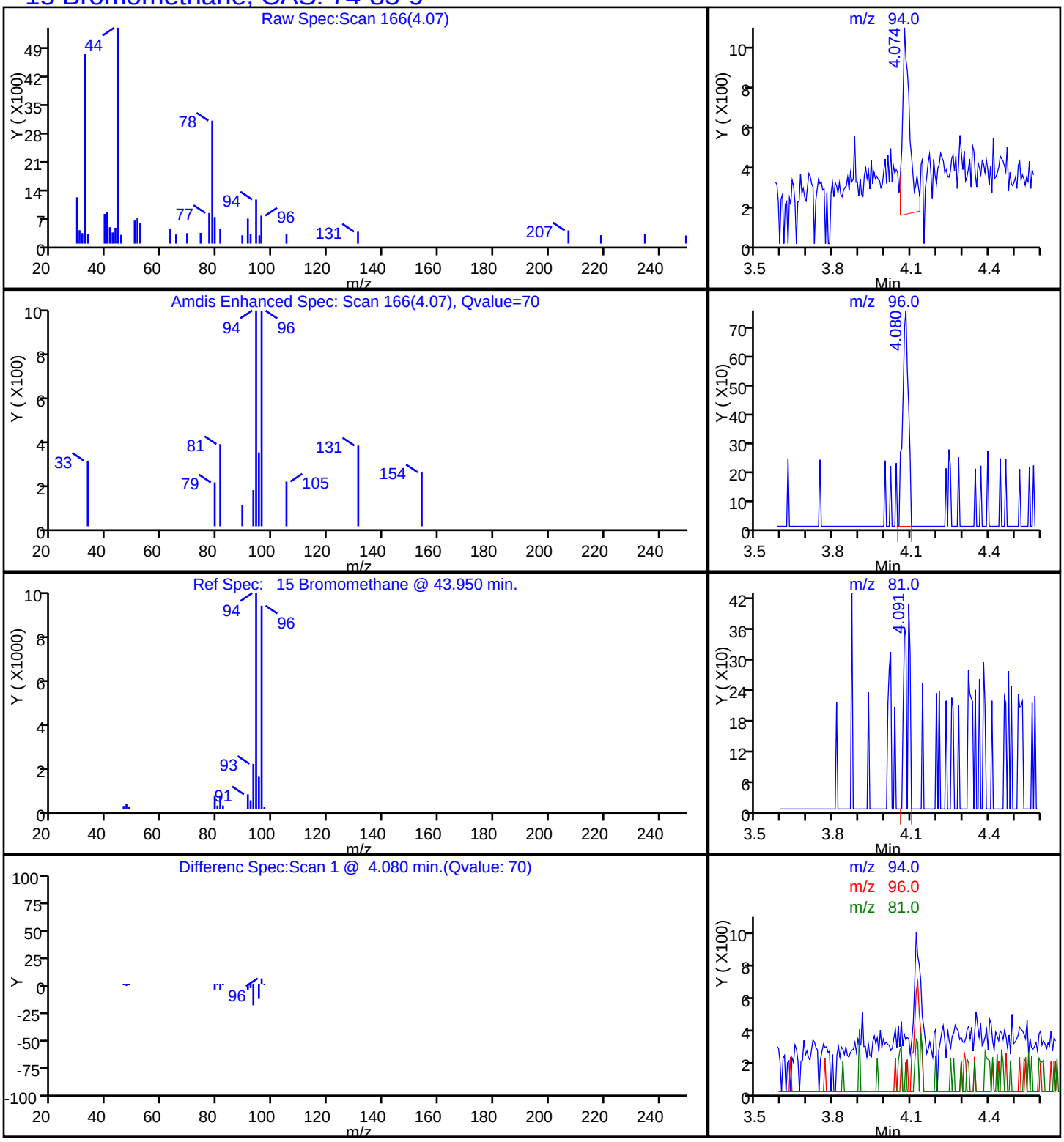
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



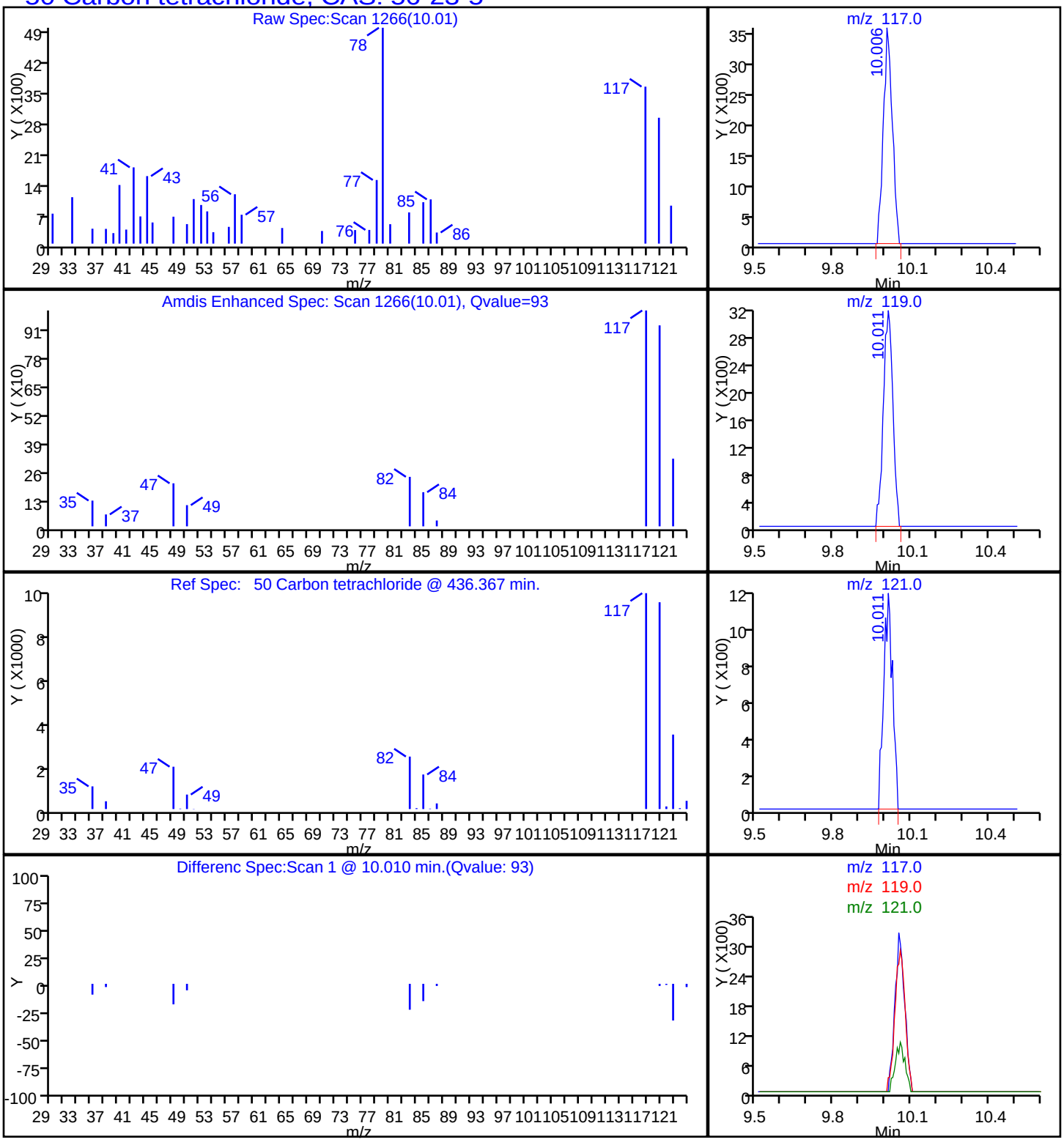
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



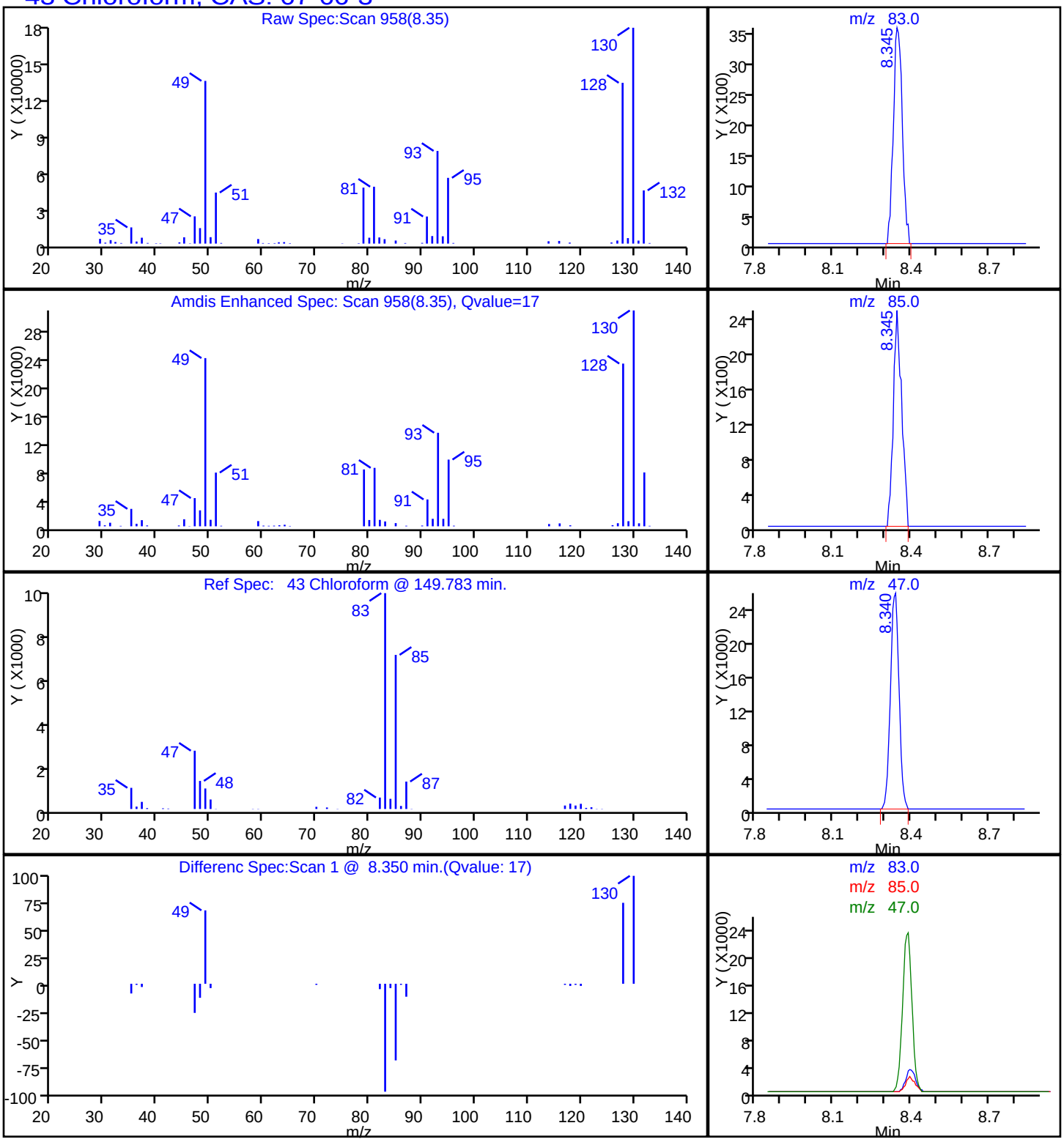
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date: 20-Mar-2014 17:15:30 Instrument ID: ME

Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4

Client ID: PCV-IA2-B6

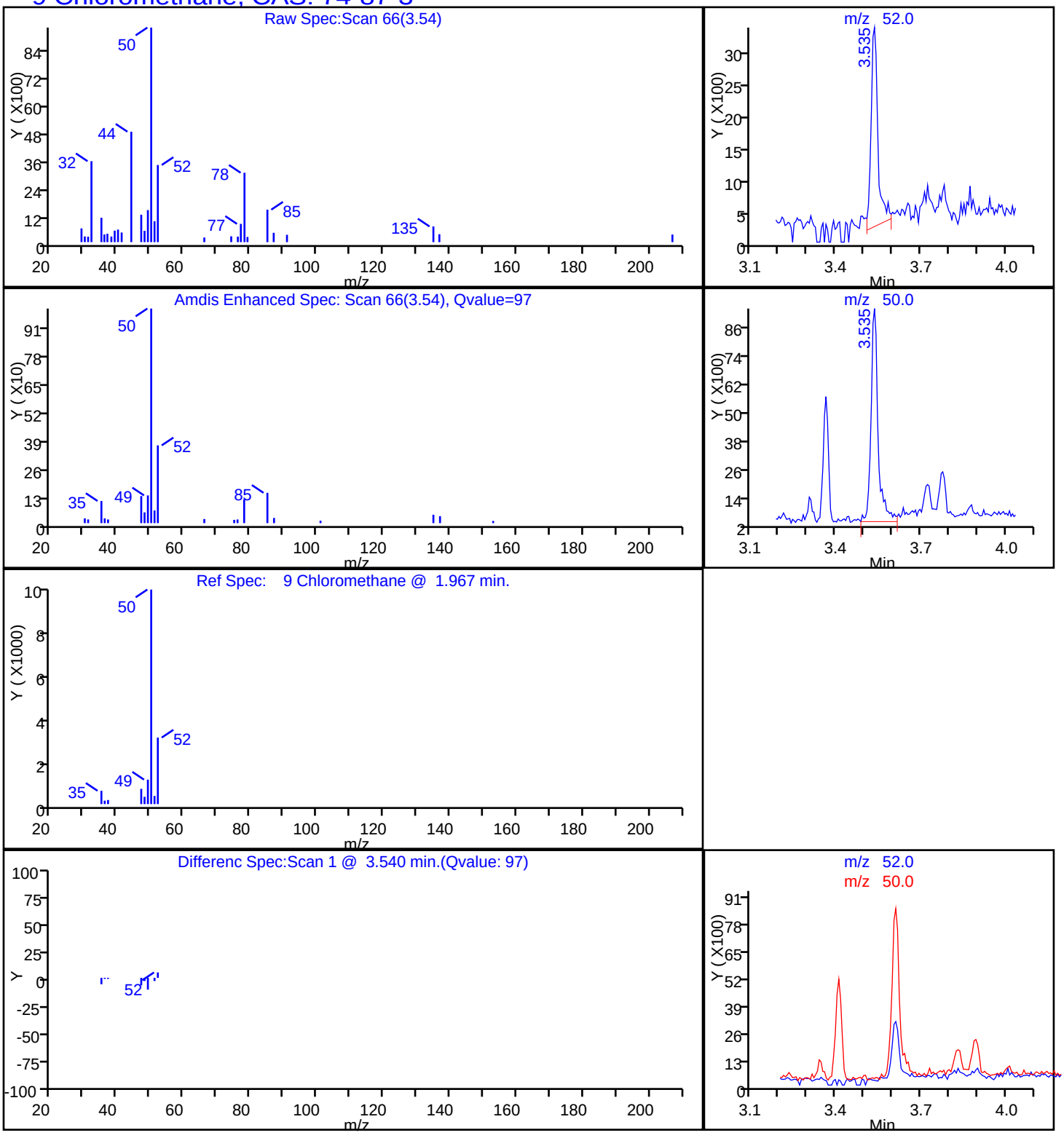
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



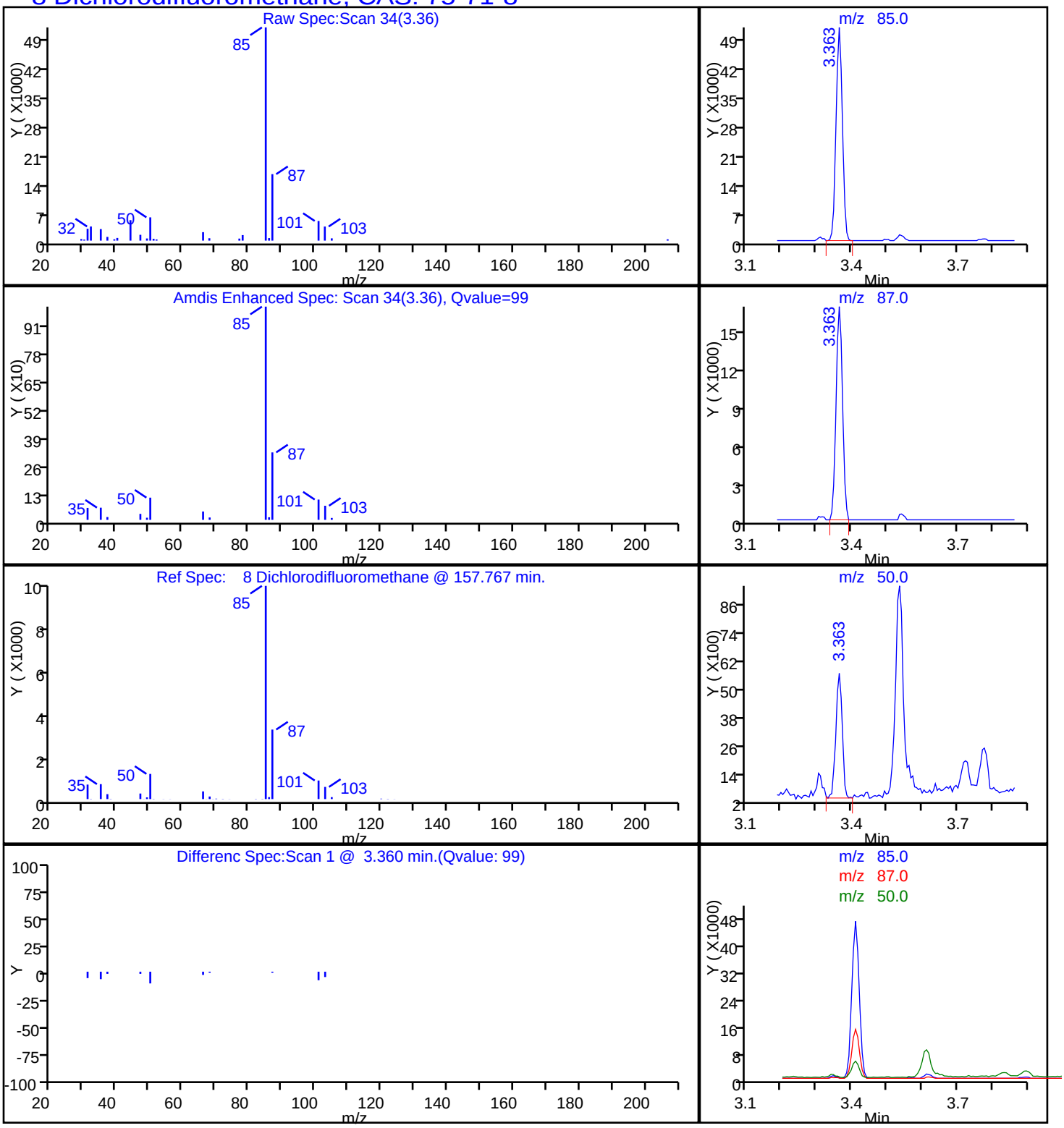
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



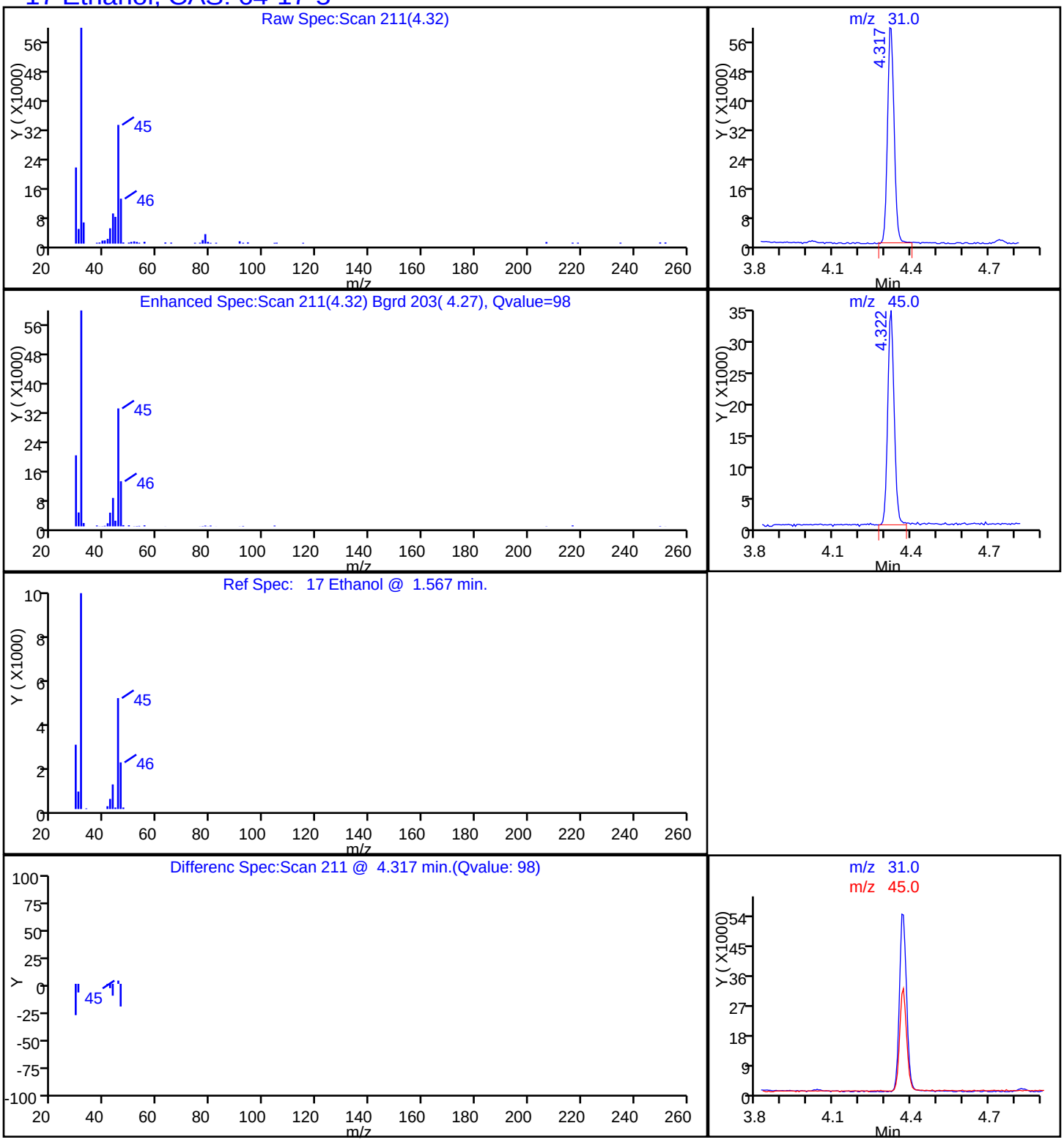
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



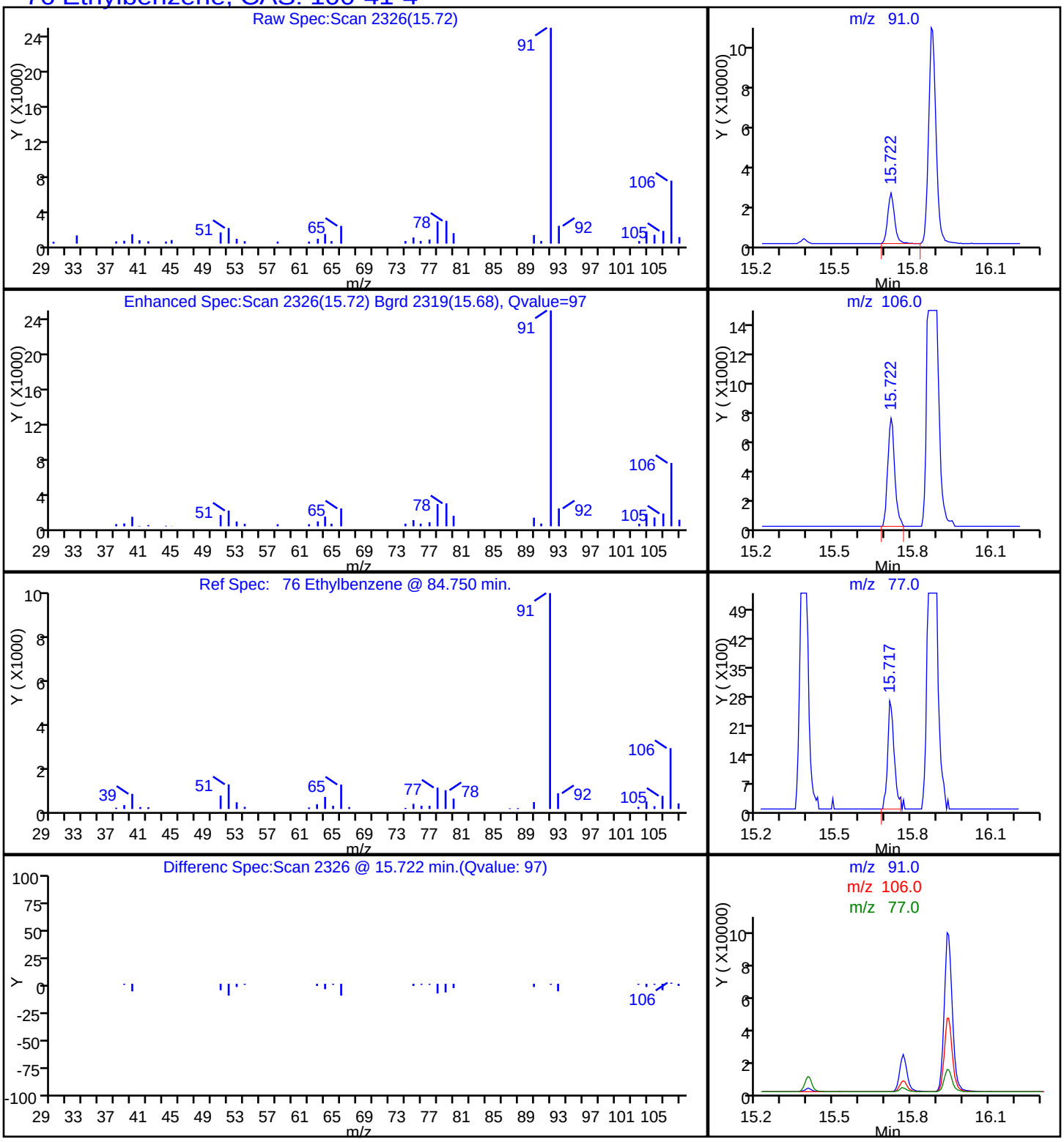
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



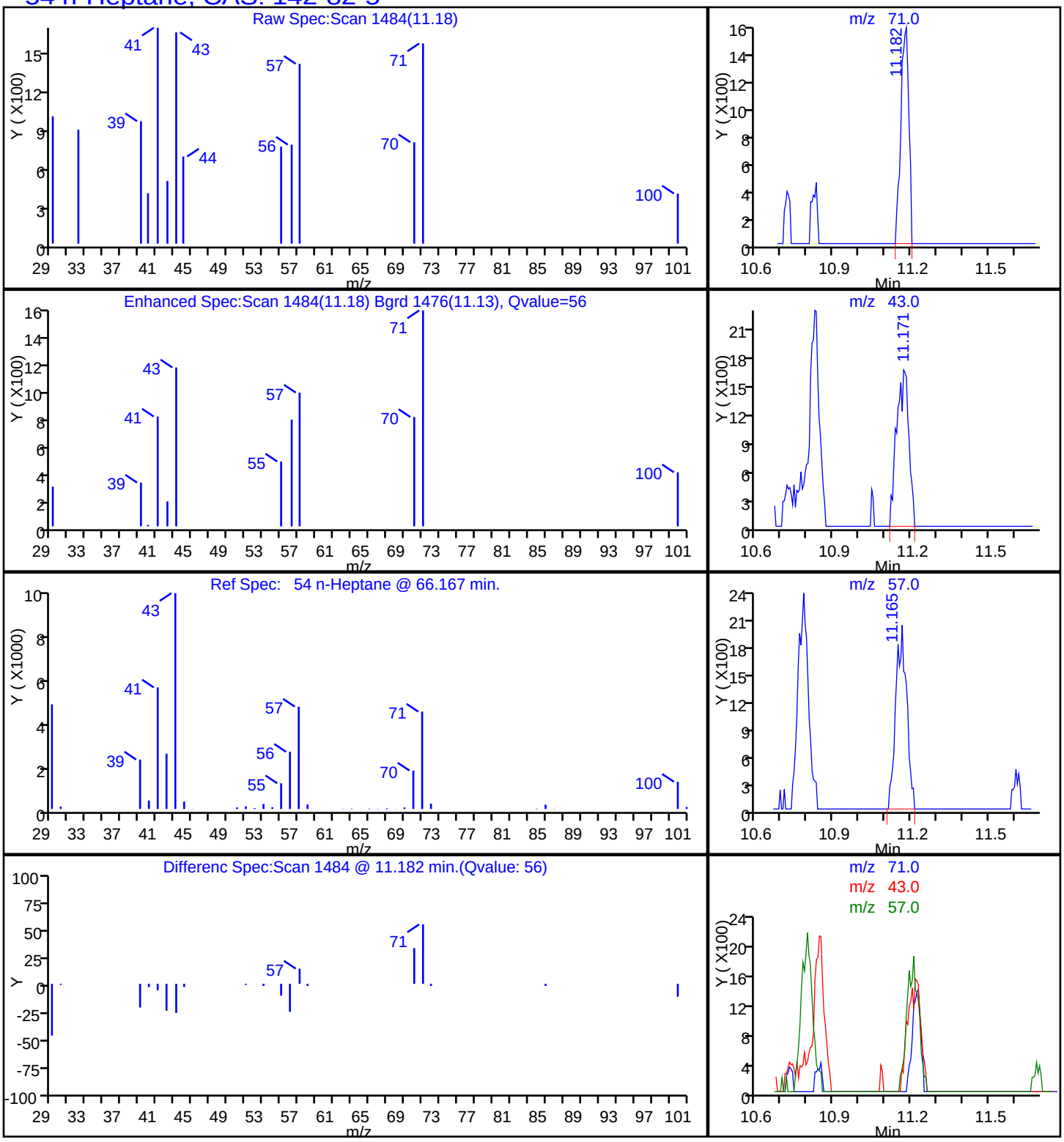
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



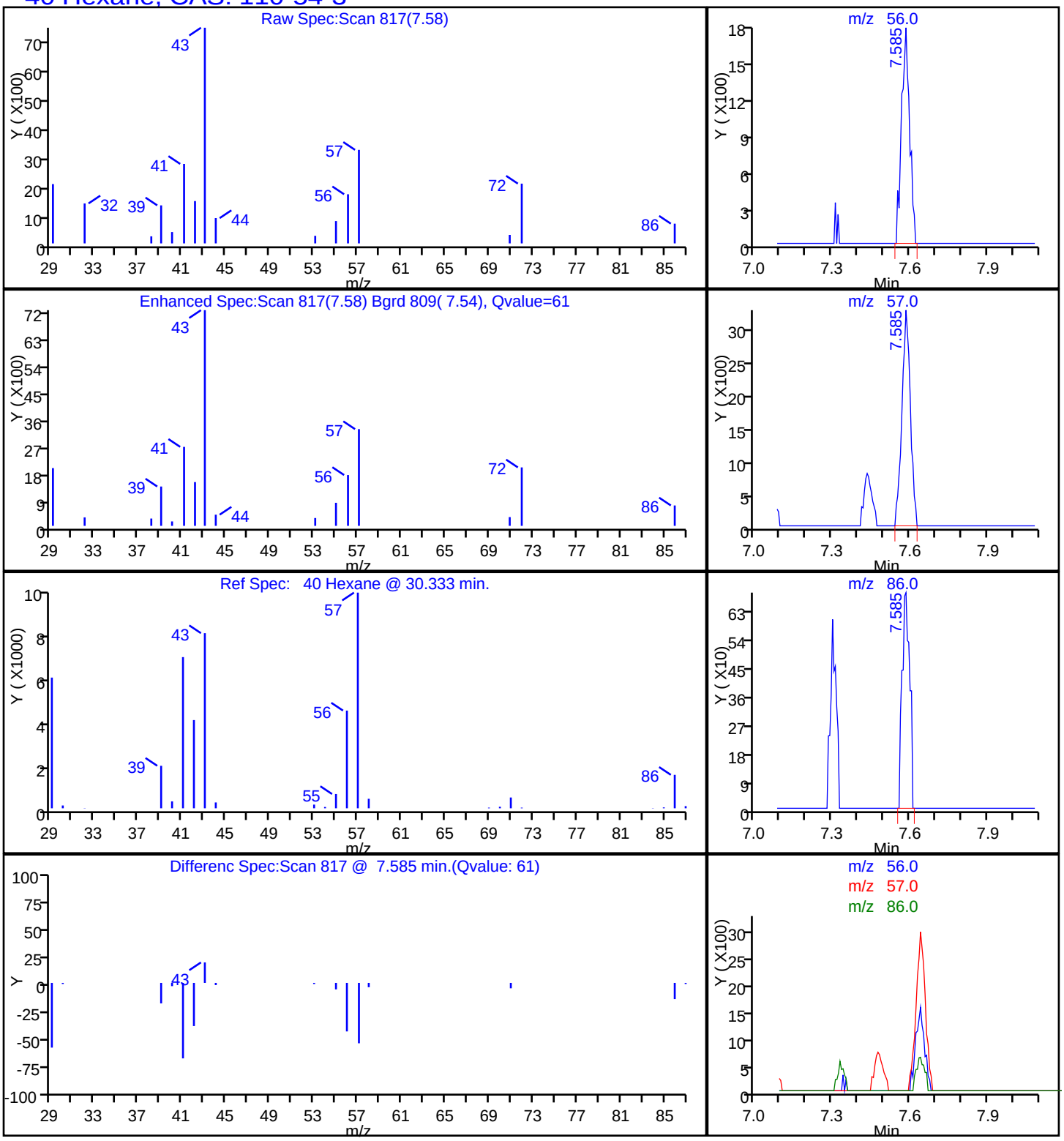
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



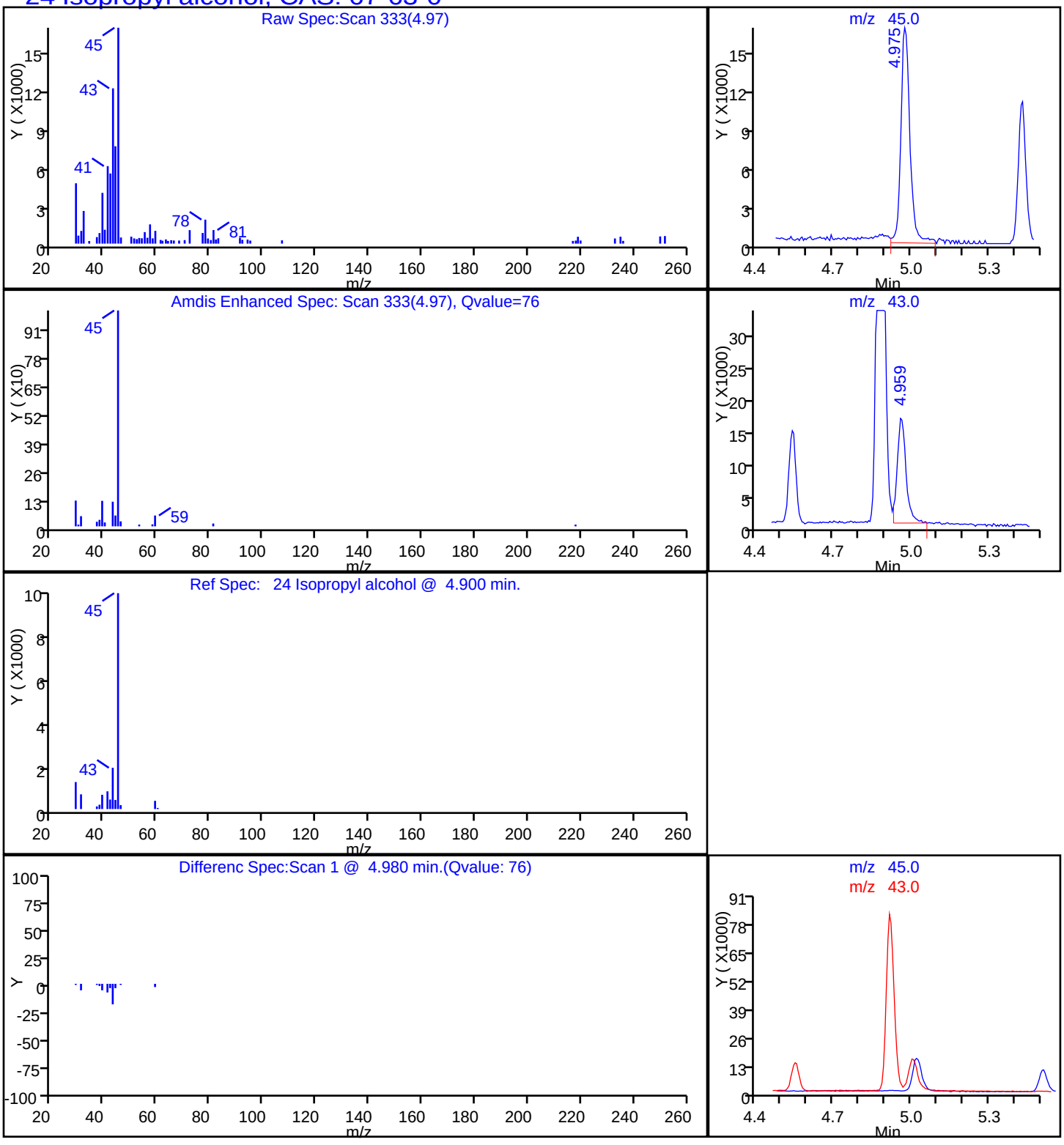
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date: 20-Mar-2014 17:15:30 Instrument ID: ME

Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4

Client ID: PCV-IA2-B6

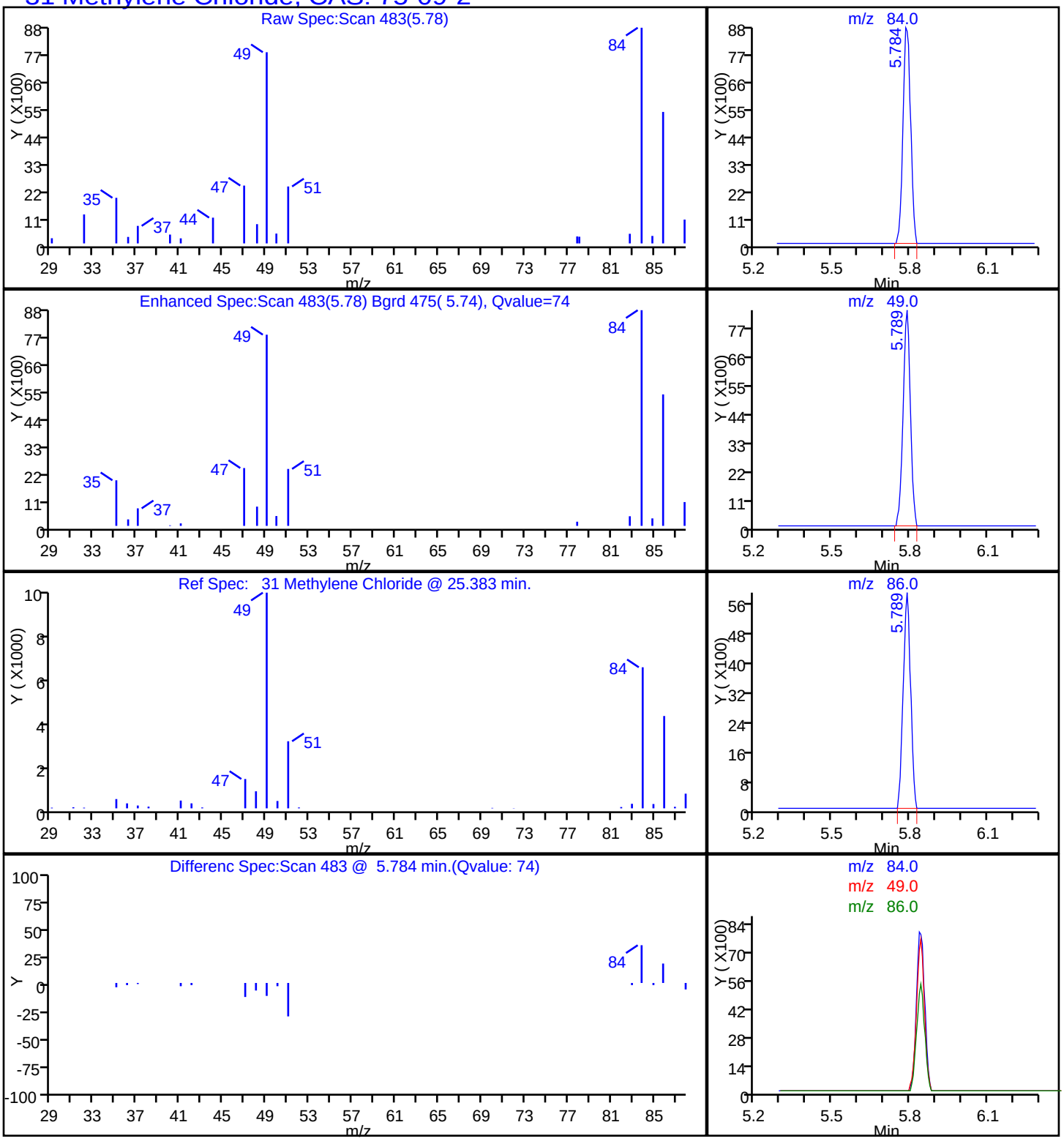
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

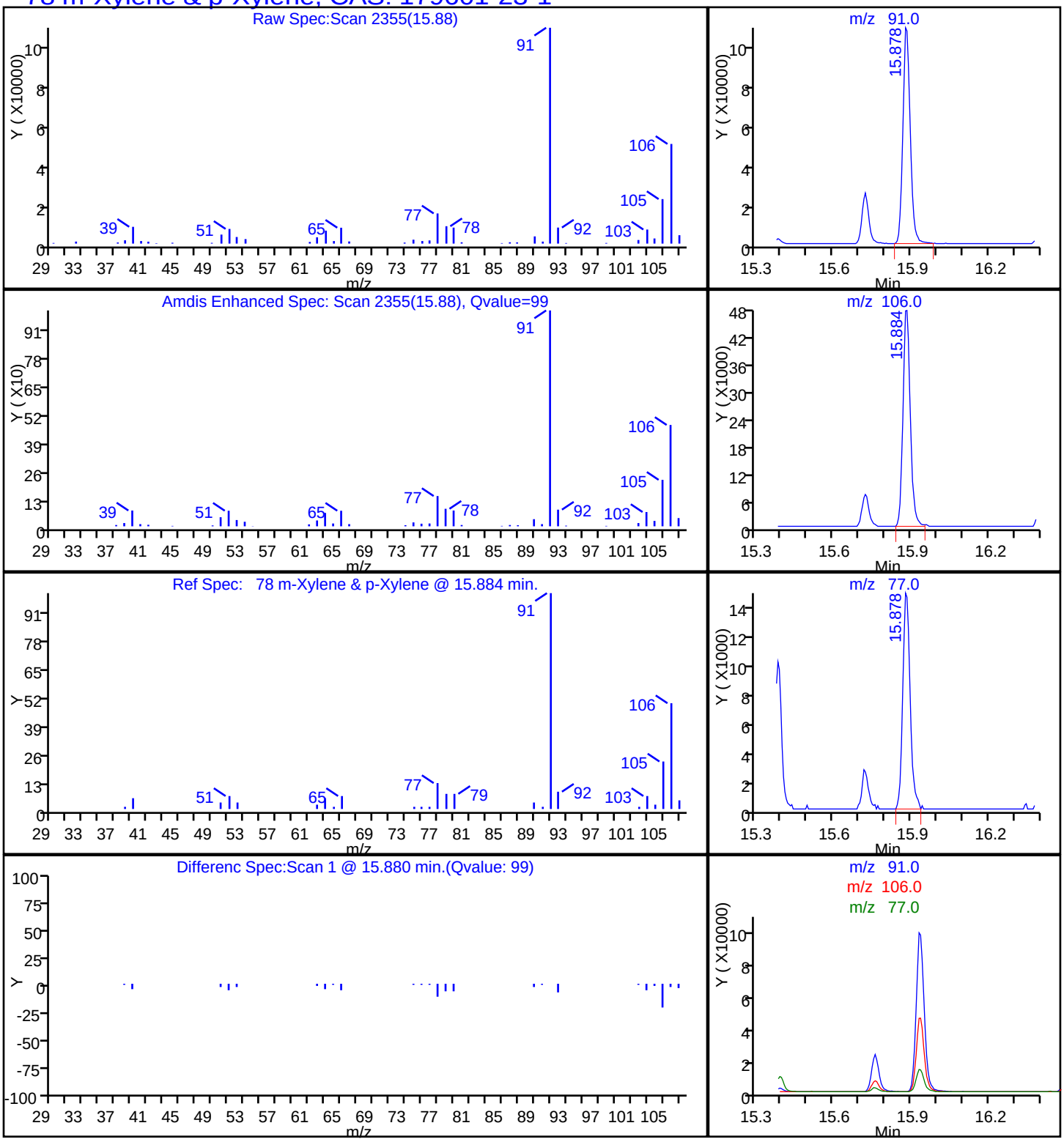


Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D				
Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



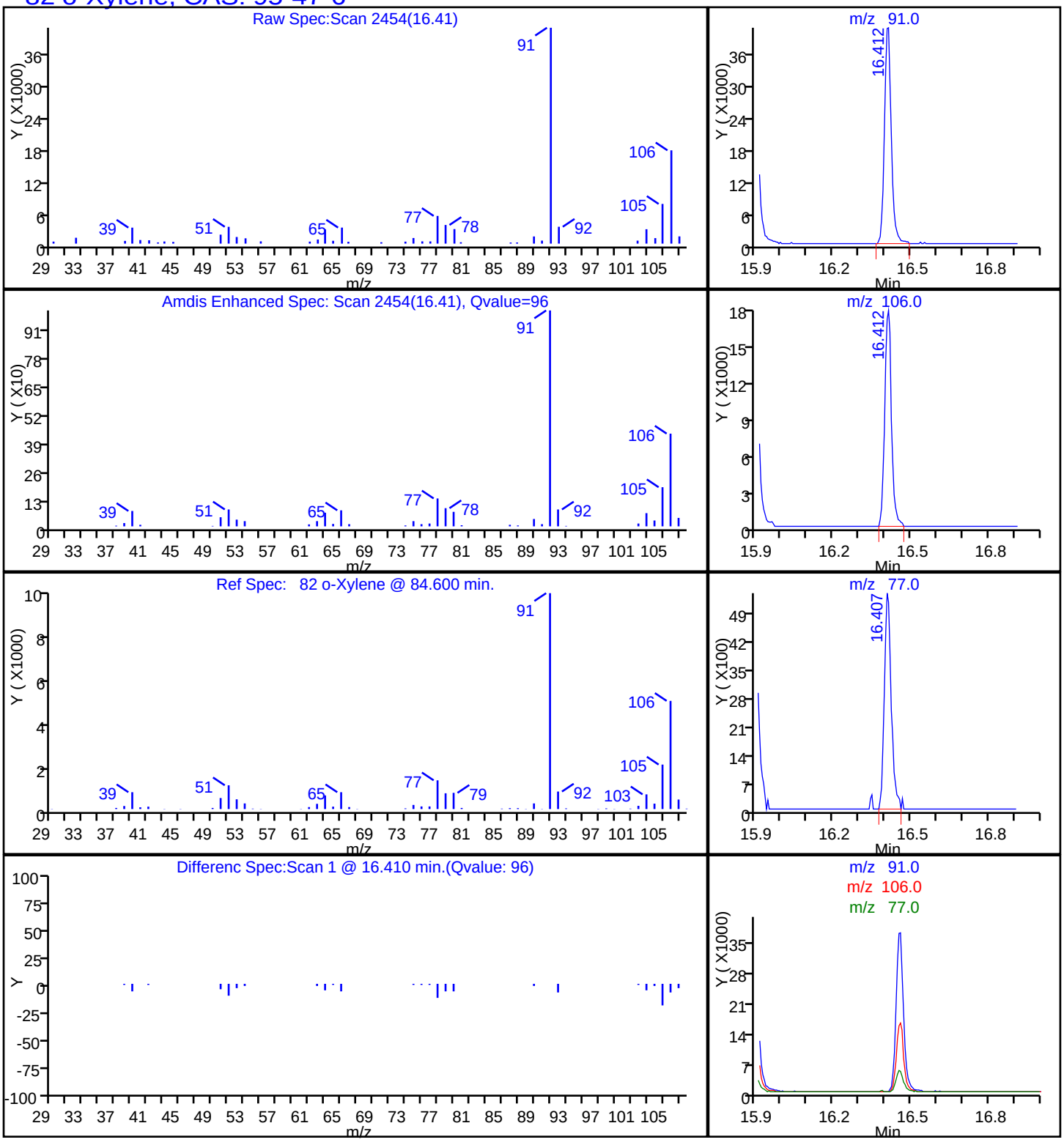
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date: 20-Mar-2014 17:15:30 Instrument ID: ME

Lims ID: 140-1060-A-4 Lab Sample ID: 140-1060-4

Client ID: PCV-IA2-B6

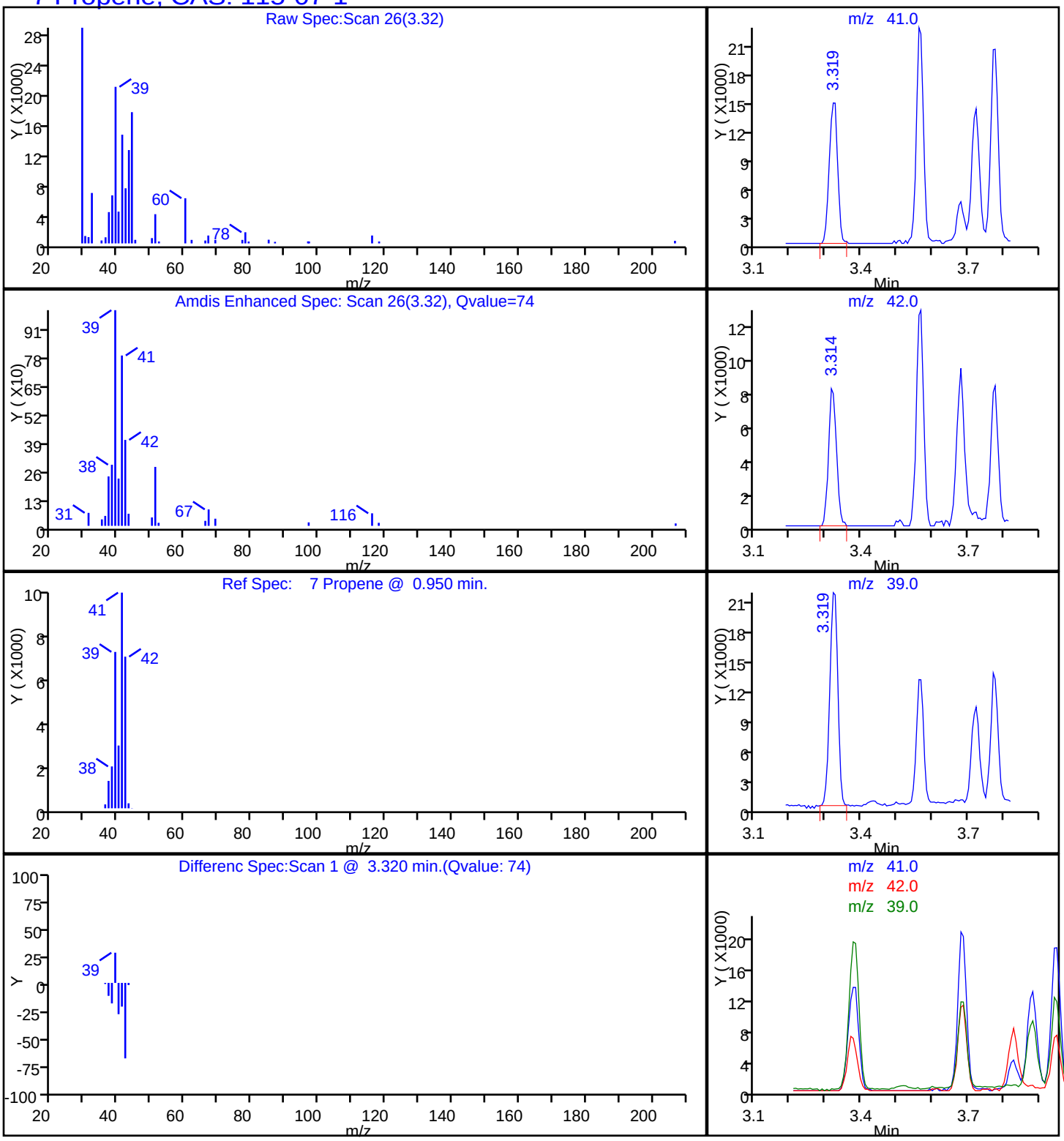
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



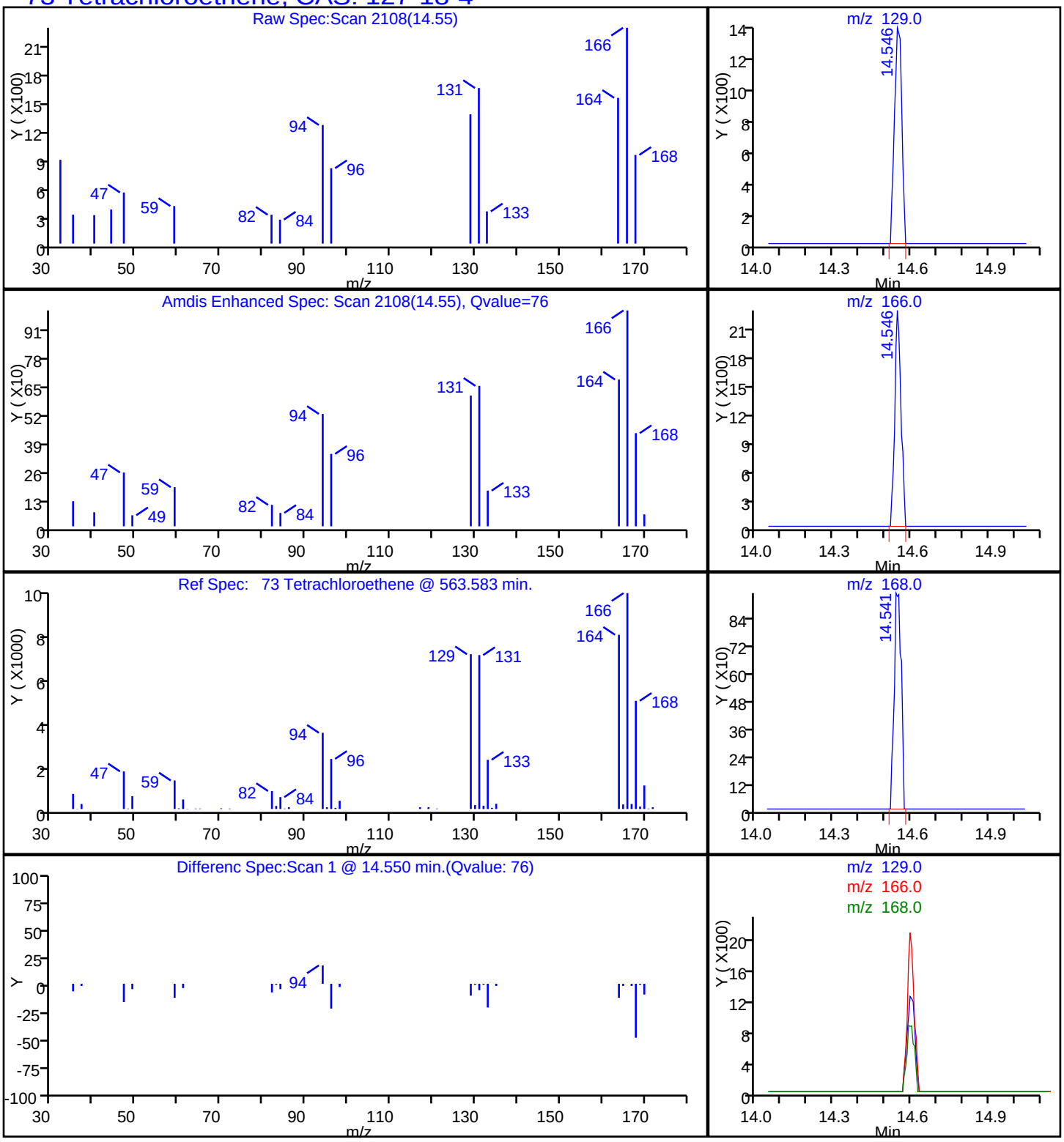
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4
Client ID:	PCV-IA2-B6		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



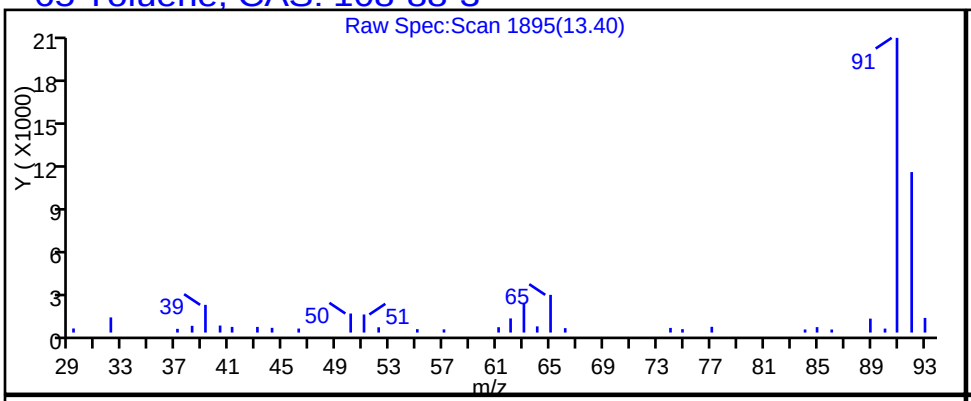
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

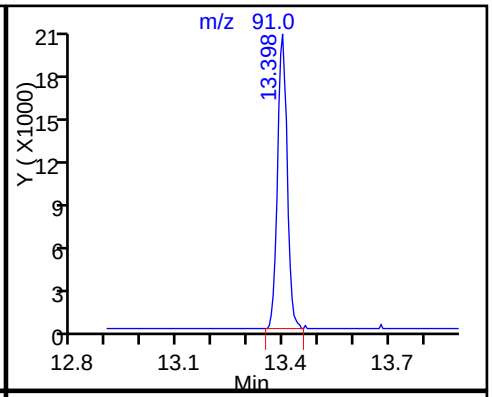
TestAmerica Knoxville

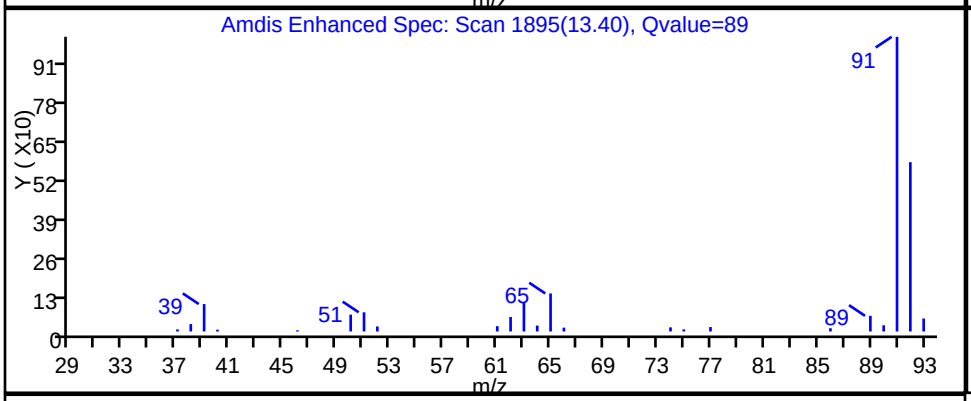
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

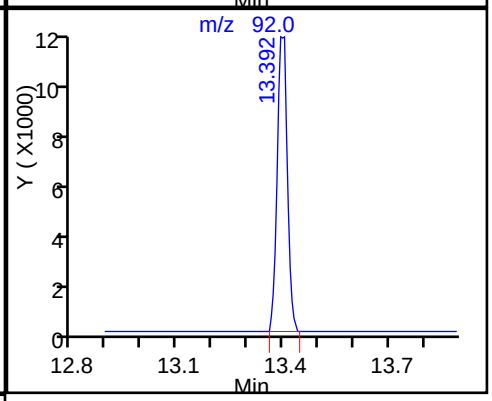
Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

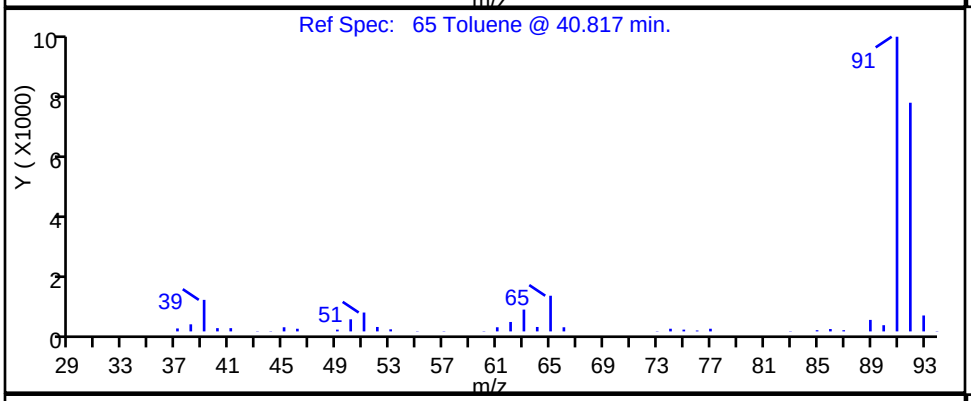
65 Toluene, CAS: 108-88-3

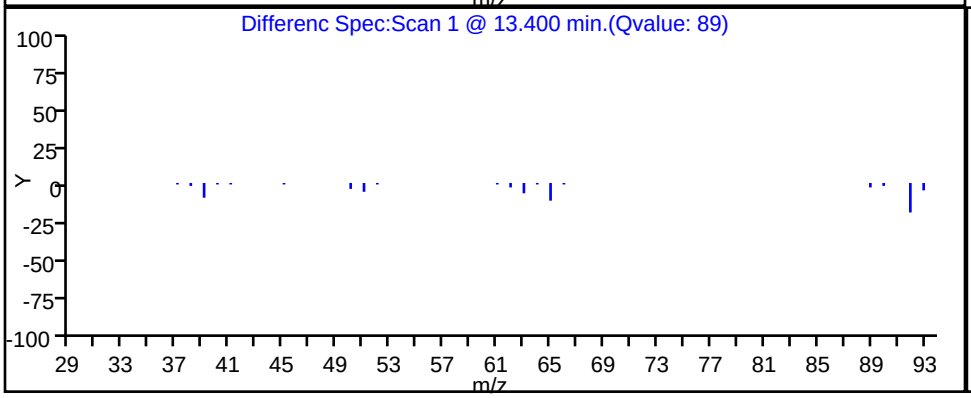


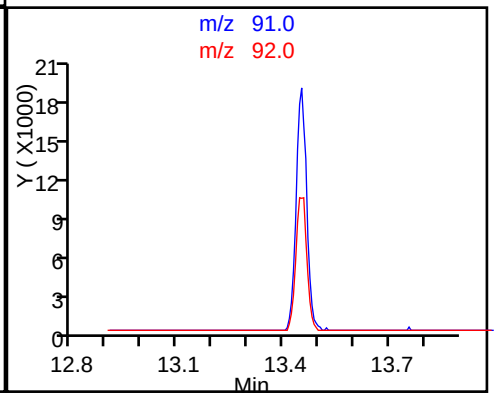












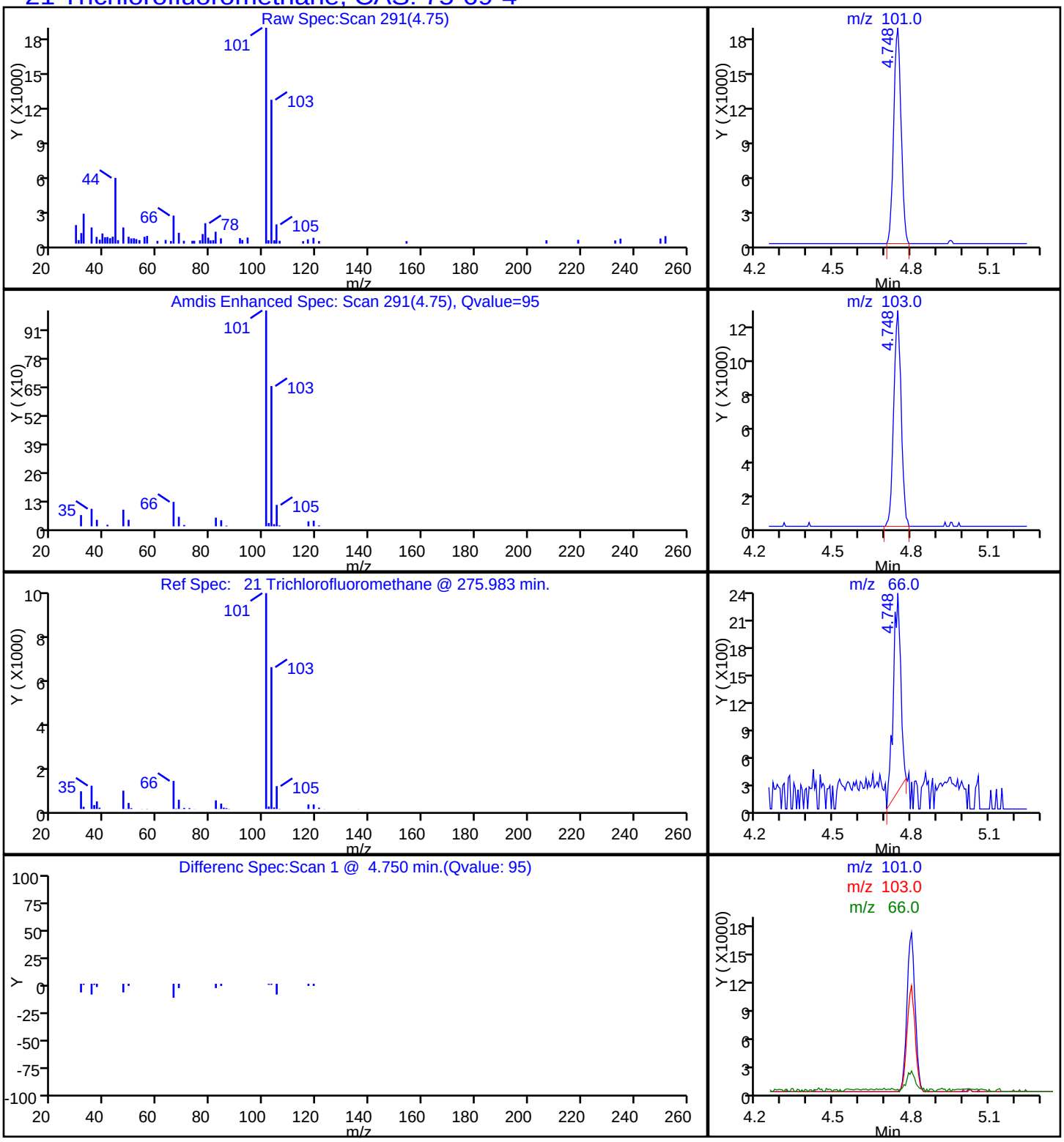
Report Date: 21-Mar-2014 09:30:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P102.D

Injection Date:	20-Mar-2014 17:15:30	Instrument ID:	ME		
Lims ID:	140-1060-A-4	Lab Sample ID:	140-1060-4		
Client ID:	PCV-IA2-B6				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.11	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.067	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.73		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.35	J	0.50	0.045
67-64-1	Acetone	58.08	3.9	J	5.0	1.4
71-43-2	Benzene	78.11	0.21		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.047	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.62		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.040	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.79		0.20	0.068
142-82-5	Heptane	100.21	0.062	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	5.4		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	1.9		0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	0.066	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.055	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.44		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.57	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.55	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.15	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4	J	2.0	0.18
67-64-1	Acetone	58.08	9.2	J	12	3.3
71-43-2	Benzene	78.11	0.68		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.23	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.14	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	23		3.8	3.8
100-41-4	Ethylbenzene	106.17	3.4		0.87	0.30
142-82-5	Heptane	100.21	0.25	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.38	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	24		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	8.4		0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	0.28	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.37	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B15 Lab Sample ID: 140-1060-5

Matrix: Air Lab File ID: EC20P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D
Lims ID: 140-1060-A-5 Lab Sample ID: 140-1060-5
Client ID: PCV-IA1-B15
Sample Type: Client
Inject. Date: 20-Mar-2014 18:00:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-5
Misc. Info.: E032014,TO155,,140-0000533-007
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:31:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:31:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	289604	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1332497	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1161031	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	985394	3.88	
7 Propene	41	3.319	3.314	0.005	86	29428	0.4039	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	62351	0.1946	
9 Chloromethane	52	3.535	3.530	0.005	97	6346	0.2482	
13 Butadiene	54	3.778	3.772	0.006	28	1826	0.0268	
17 Ethanol	31	4.328	4.317	0.011	97	140969	4.87	
19 2-Methylbutane	43	4.533	4.538	-0.005	86	29648	0.2923	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	35353	0.1100	
23 Acetone	58	4.872	4.883	-0.011	92	68087	1.55	
24 Isopropyl alcohol	45	4.980	4.970	0.010	95	56034	0.4962	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	68	5939	0.0299	
31 Methylene Chloride	84	5.784	5.789	-0.005	70	13203	0.1595	
40 Hexane	56	7.579	7.585	-0.006	67	3299	0.0428	
43 Chloroform	83	8.340	8.356	-0.016	6	4646	0.0187	
49 Cyclohexane	69	9.990	9.984	0.006	38	811	0.0161	
48 Benzene	78	9.990	9.995	-0.005	93	22752	0.0848	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	91	7221	0.0280	
53 Isooctane	57	10.777	10.788	-0.011	66	7821	0.0189	
54 n-Heptane	71	11.176	11.182	-0.006	62	2503	0.0247	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	89	22120	0.1401	
65 Toluene	91	13.398	13.398	0.0	92	54474	0.1751	
73 Tetrachloroethene	129	14.546	14.552	-0.006	82	2906	0.0219	
76 Ethylbenzene	91	15.722	15.722	0.0	98	125732	0.3153	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	681050	2.17	
80 Styrene	104	16.347	16.347	0.0	72	5724	0.0264	
82 o-Xylene	91	16.407	16.412	-0.005	98	260867	0.7697	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	78	15992	0.0449	

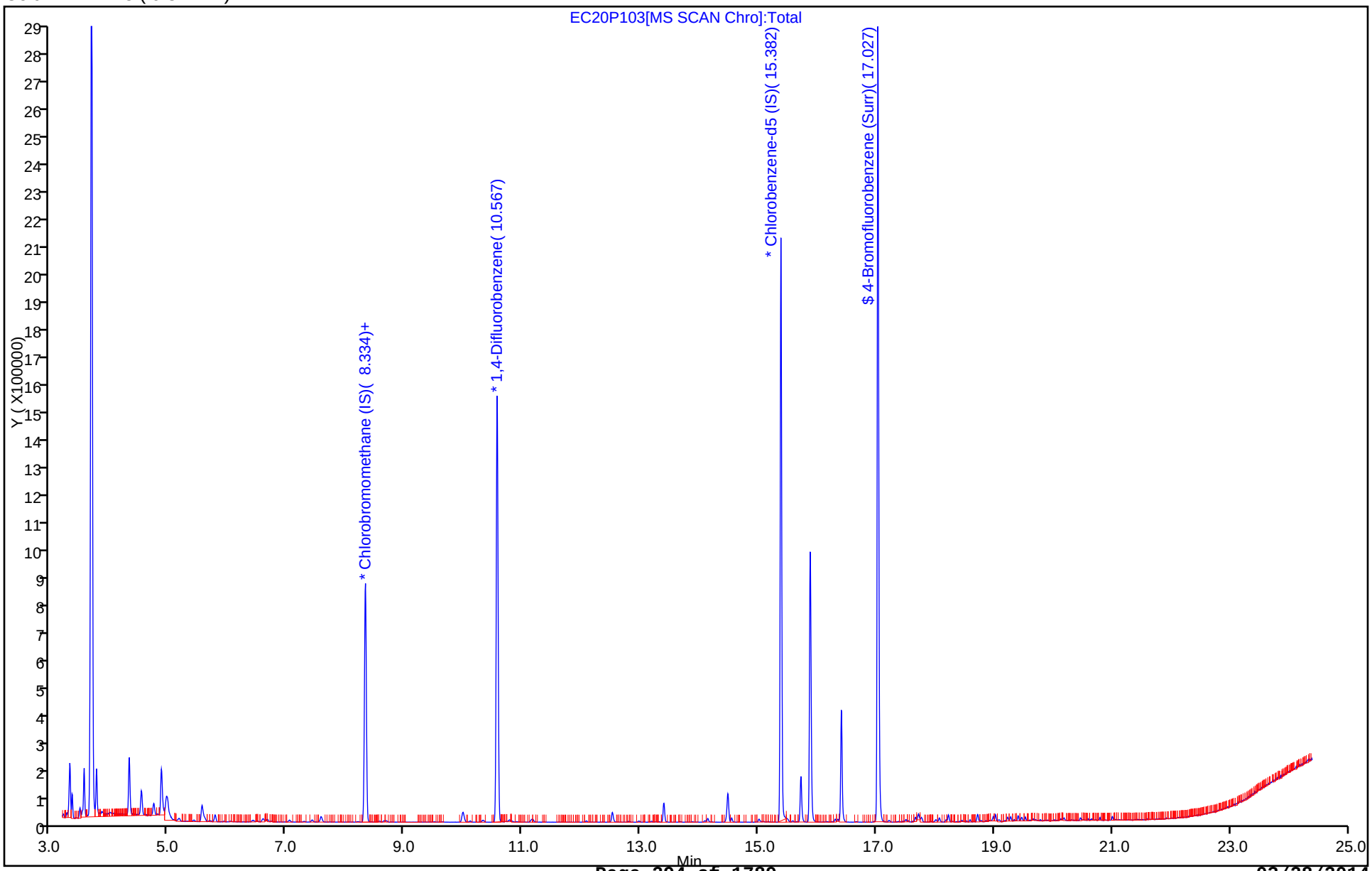
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5	Worklist Smp#:	7
Client ID:	PCV-IA1-B15				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



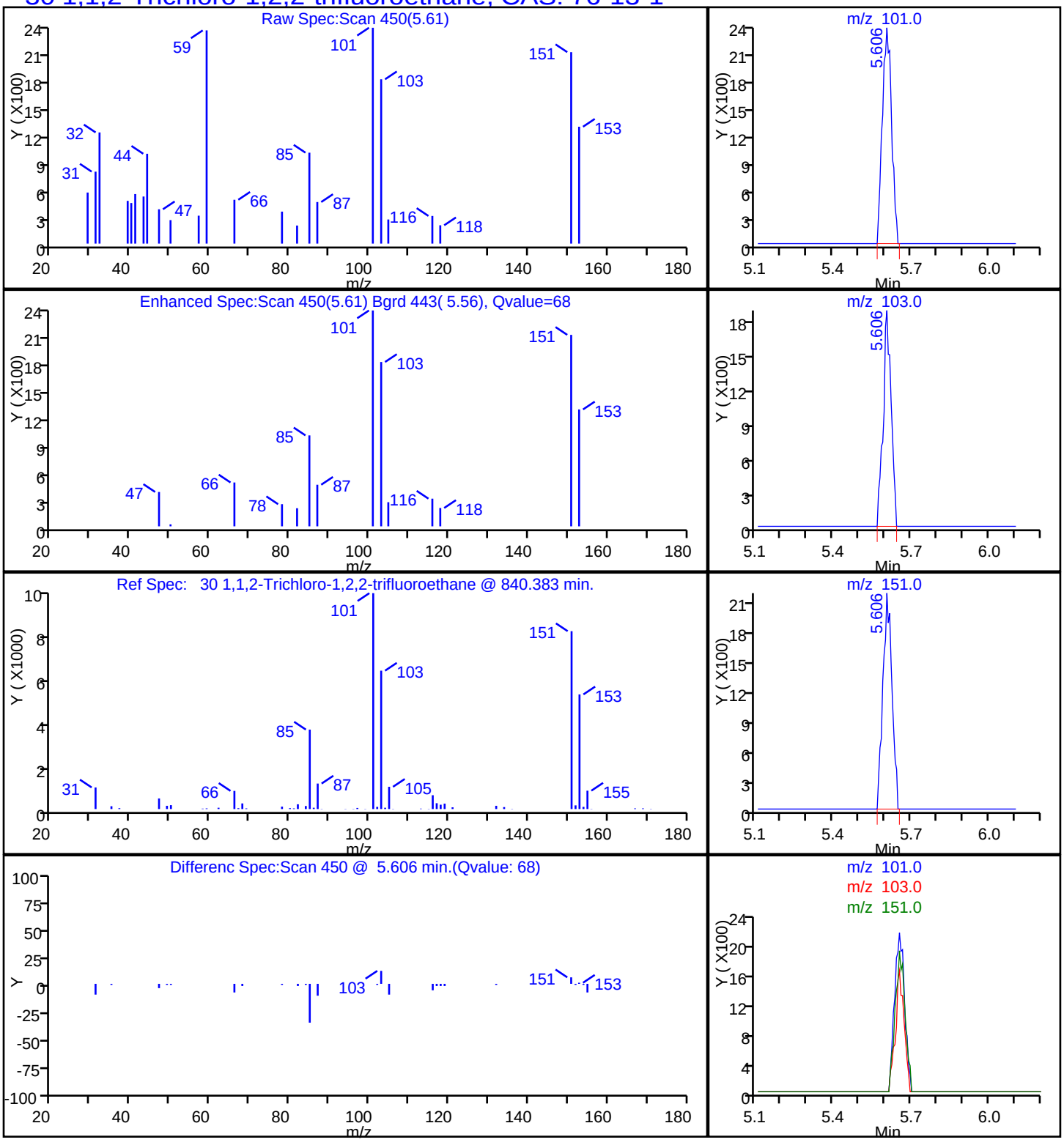
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



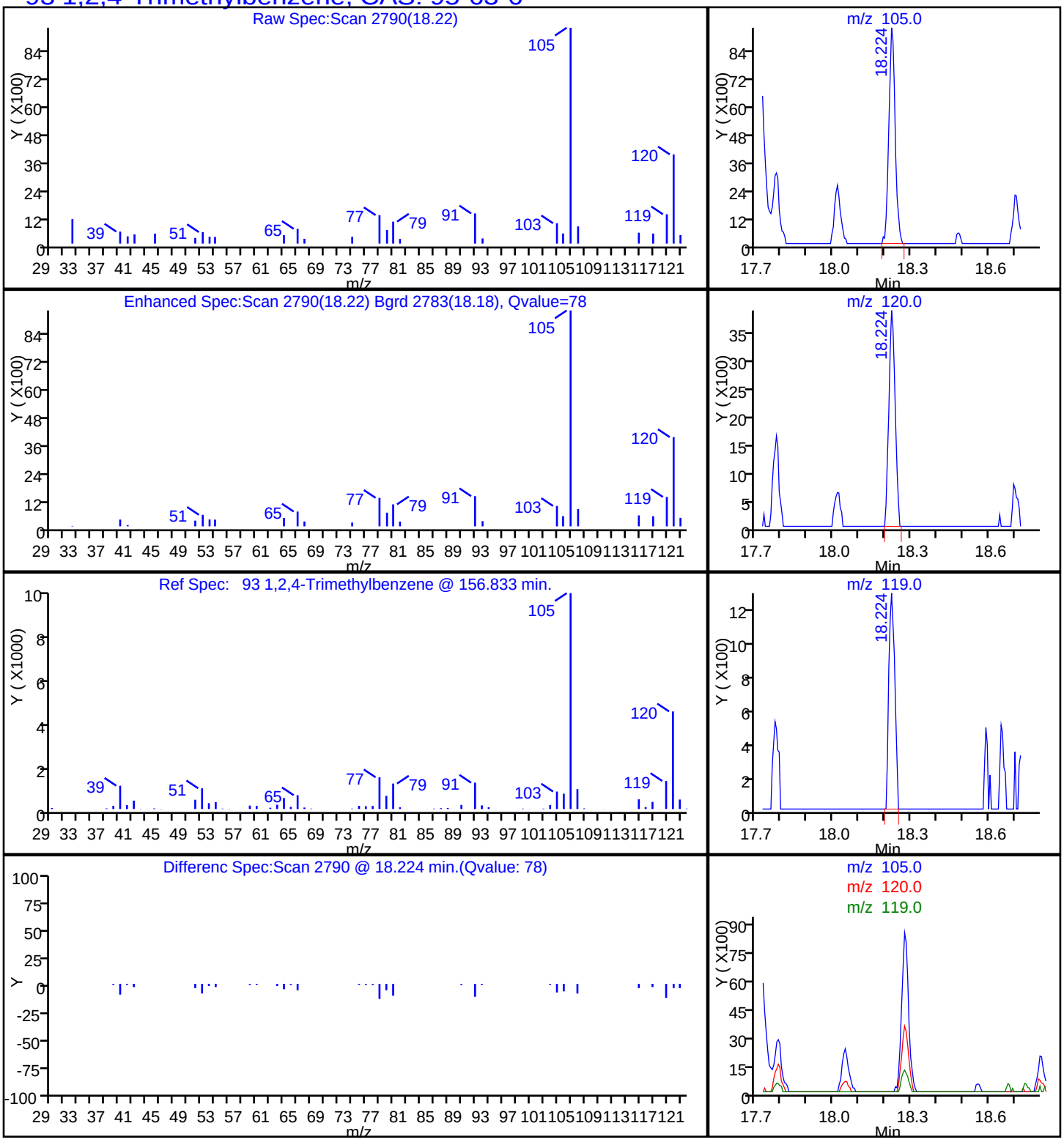
Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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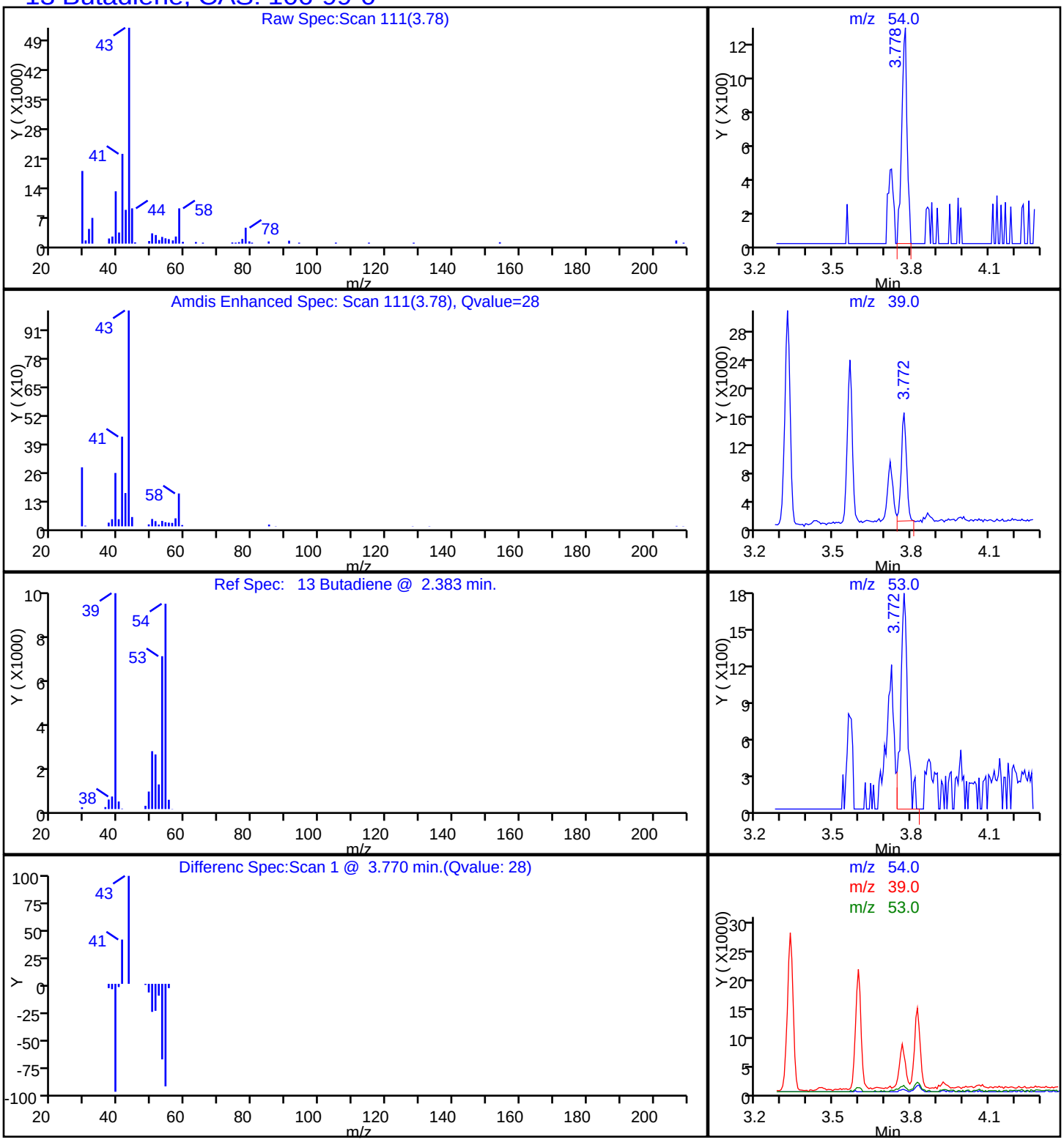
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D		
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D				
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
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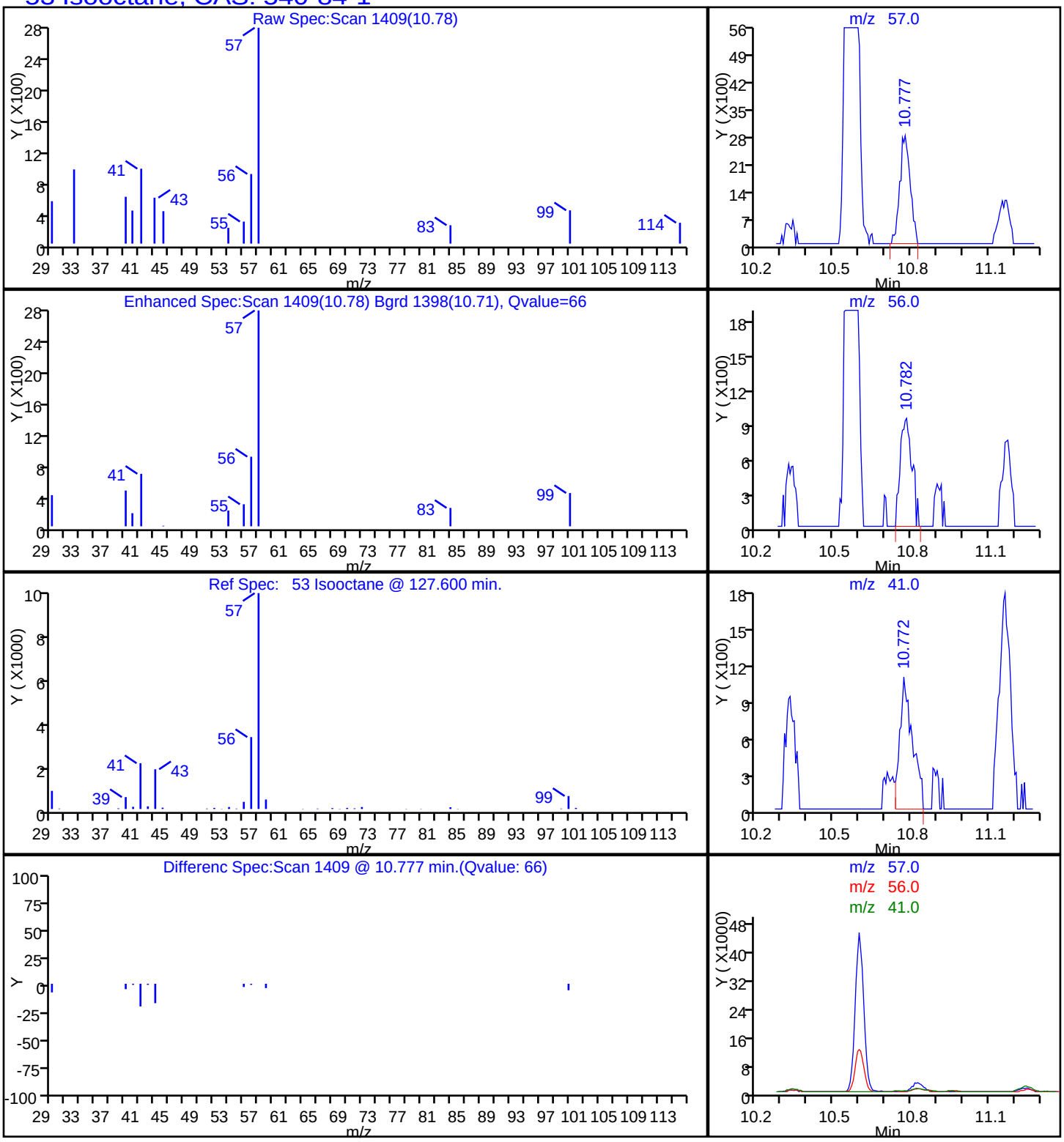
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



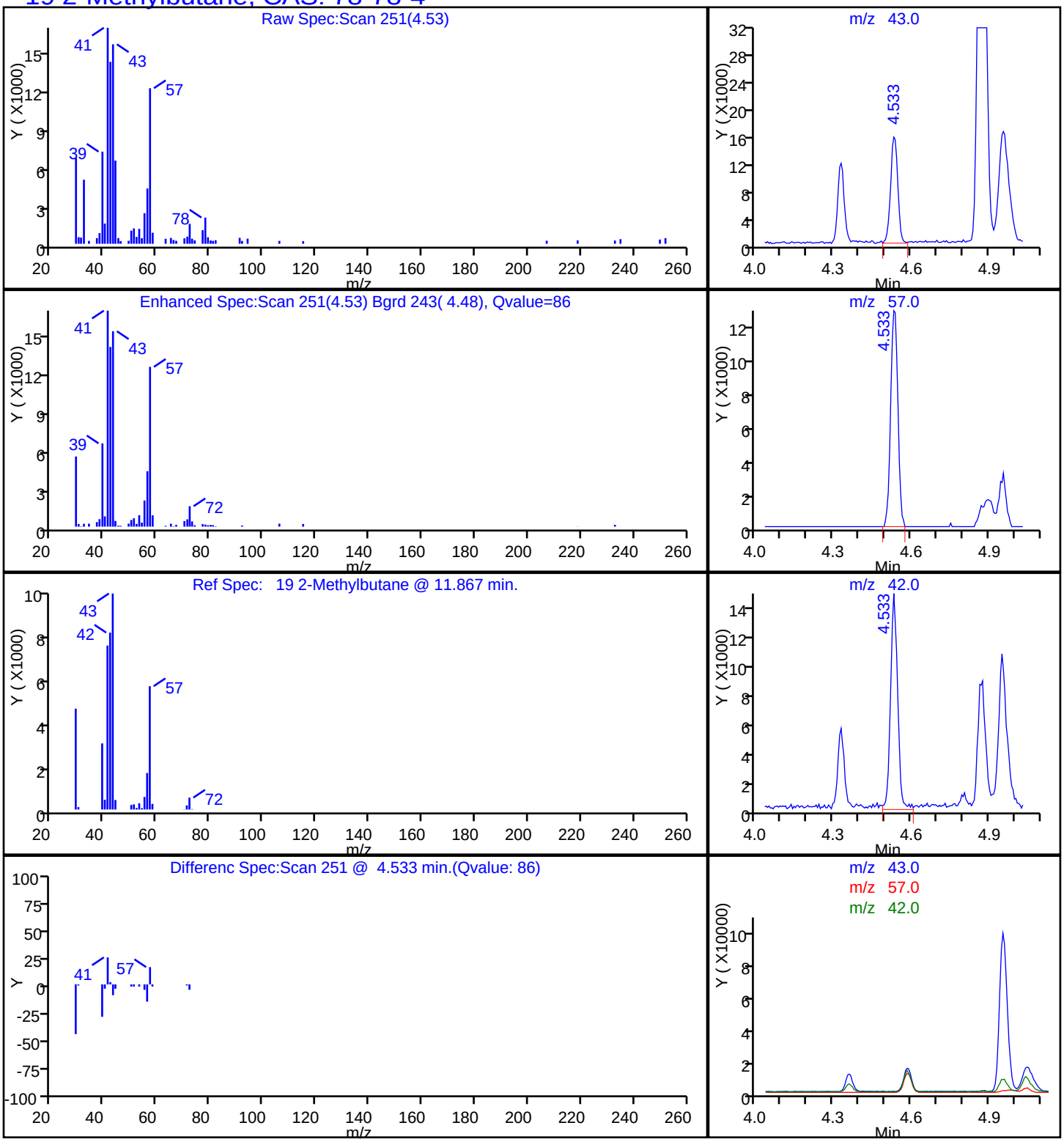
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

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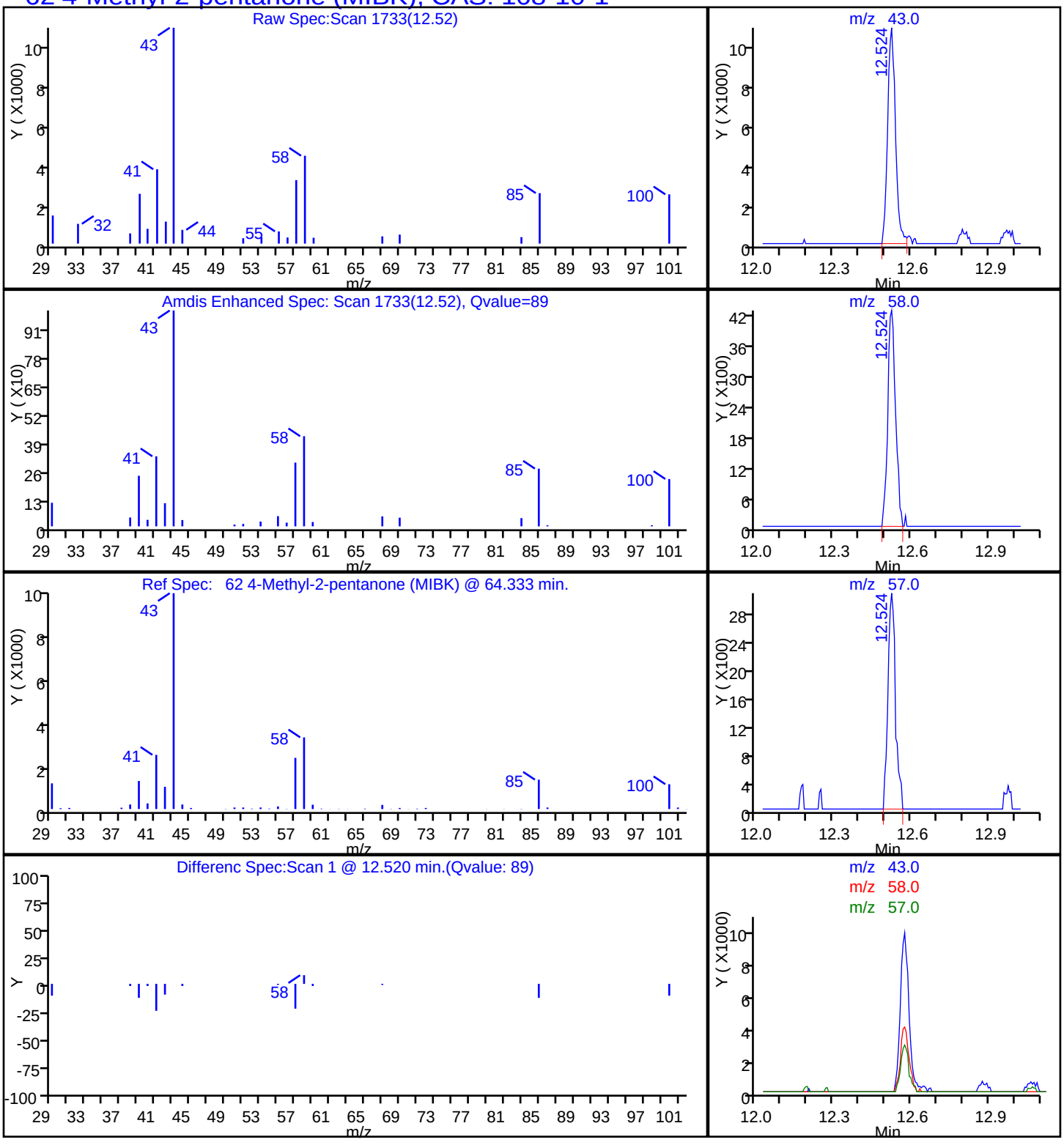
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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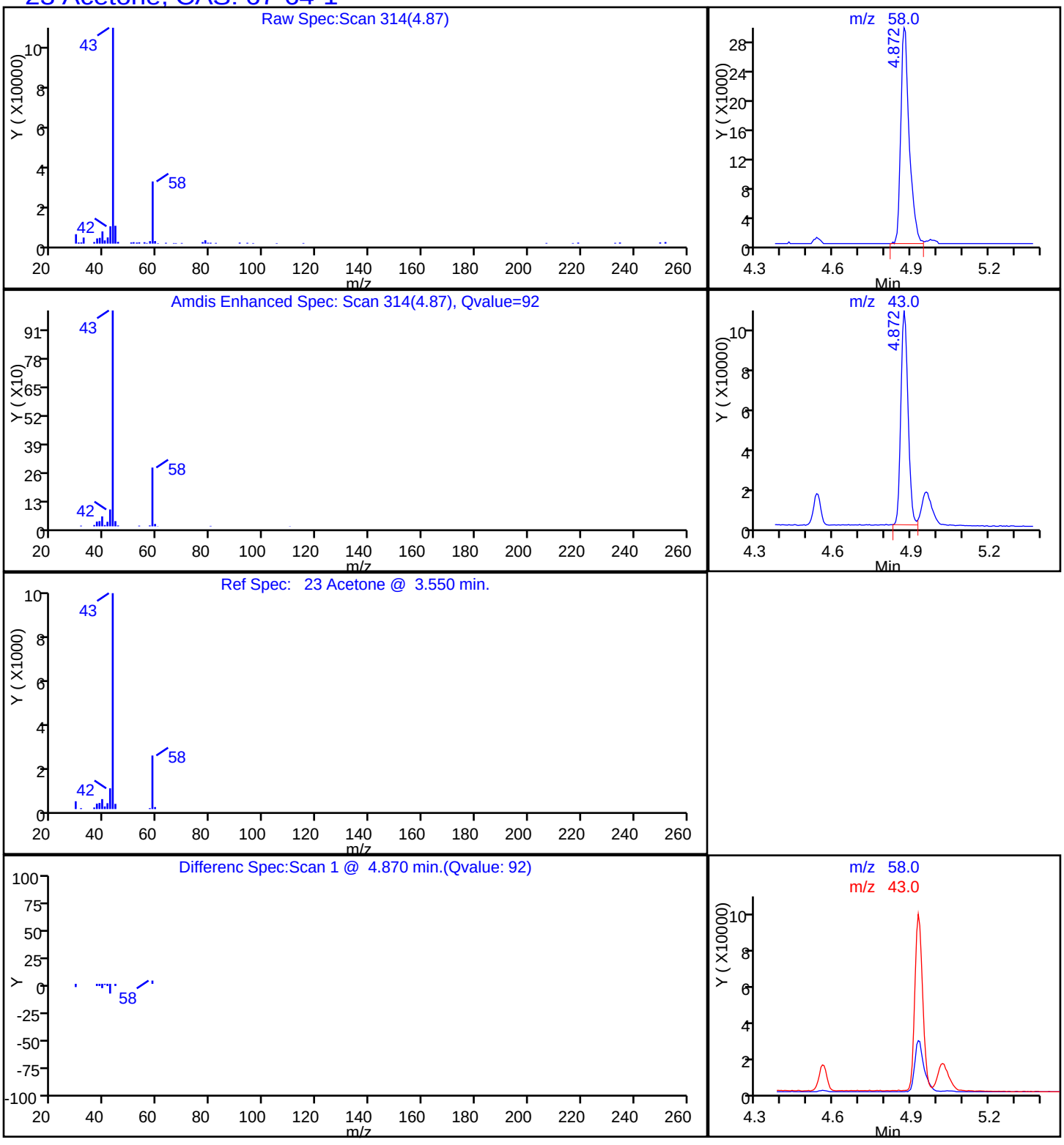
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D		
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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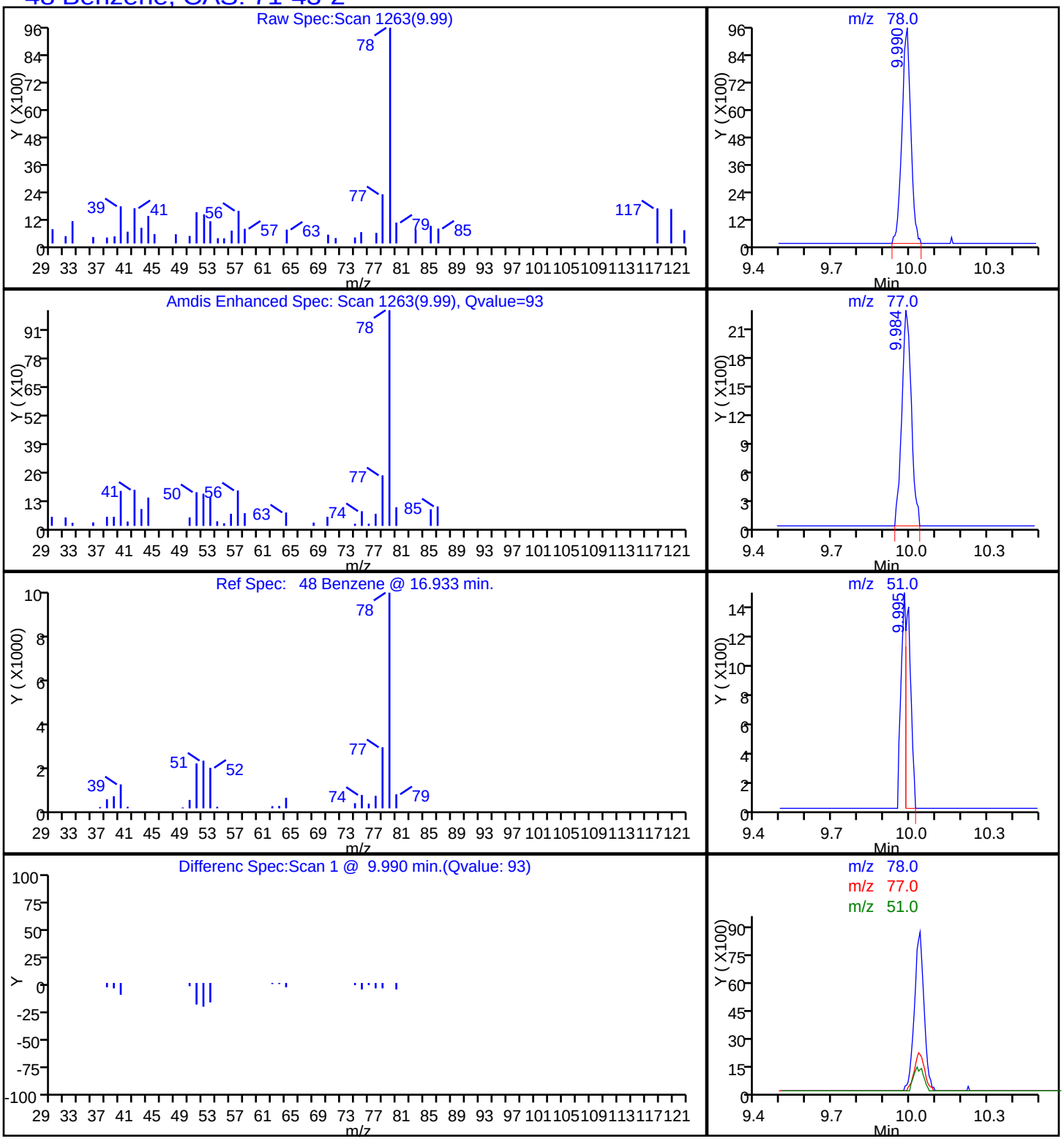
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



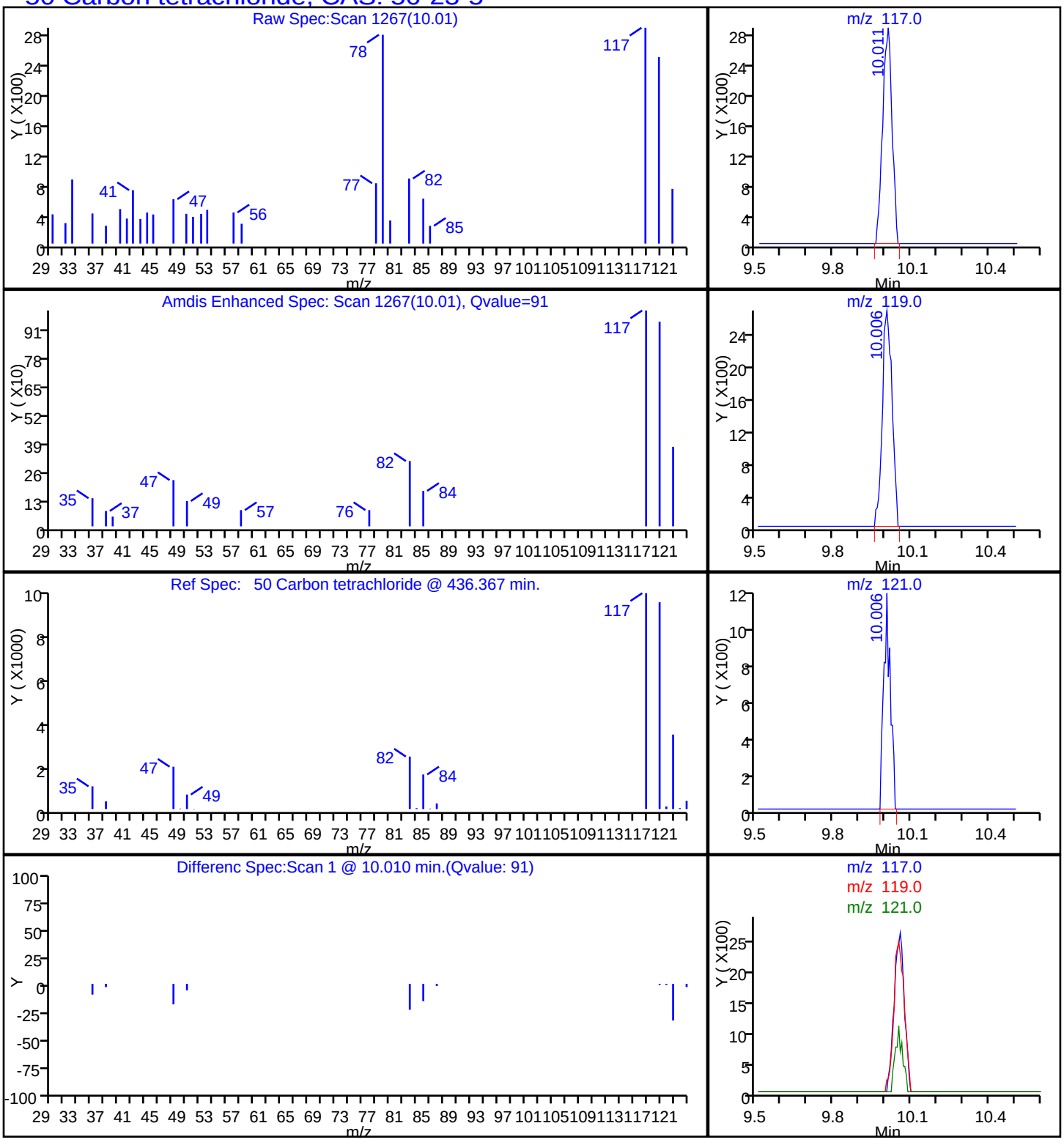
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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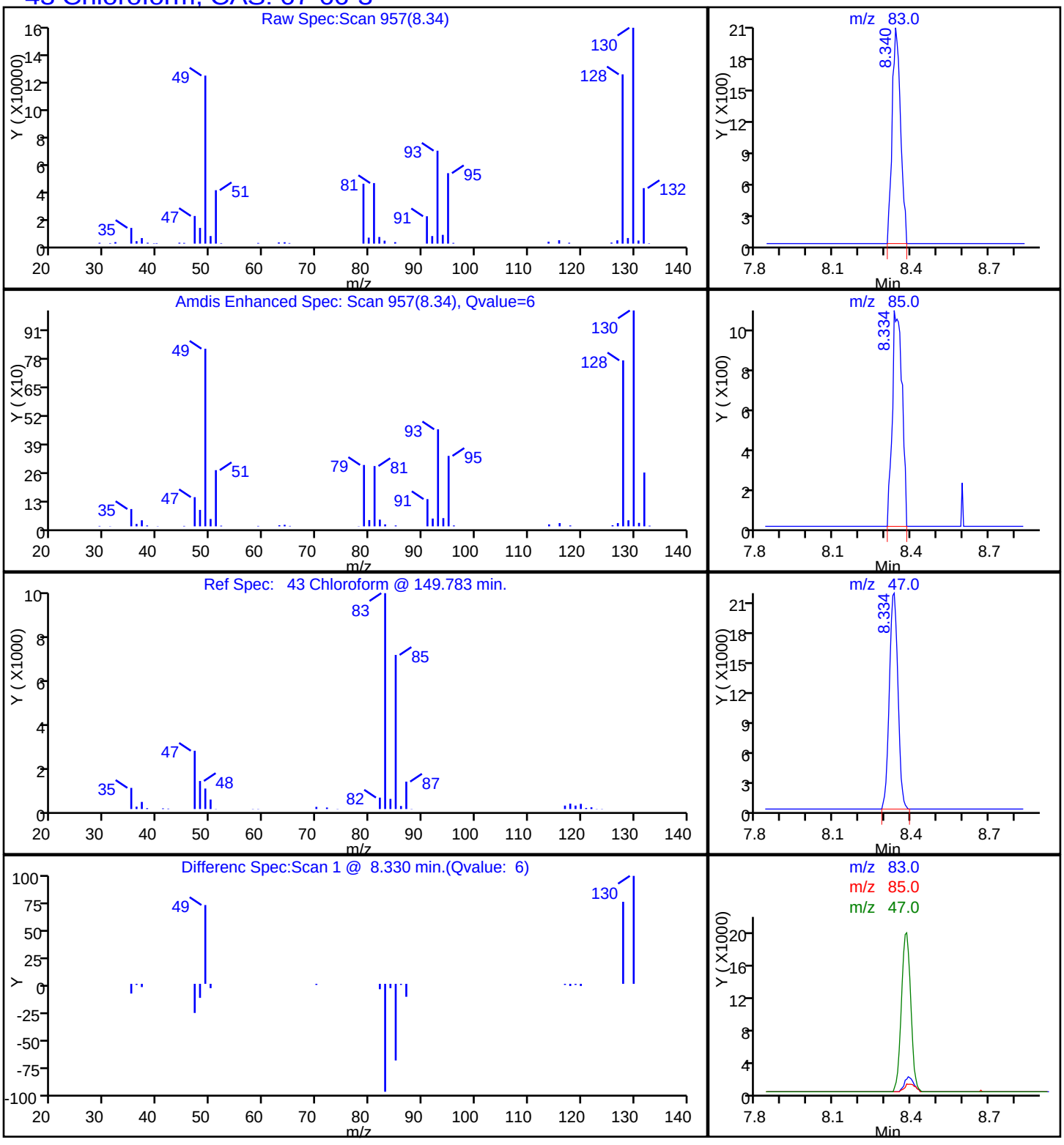
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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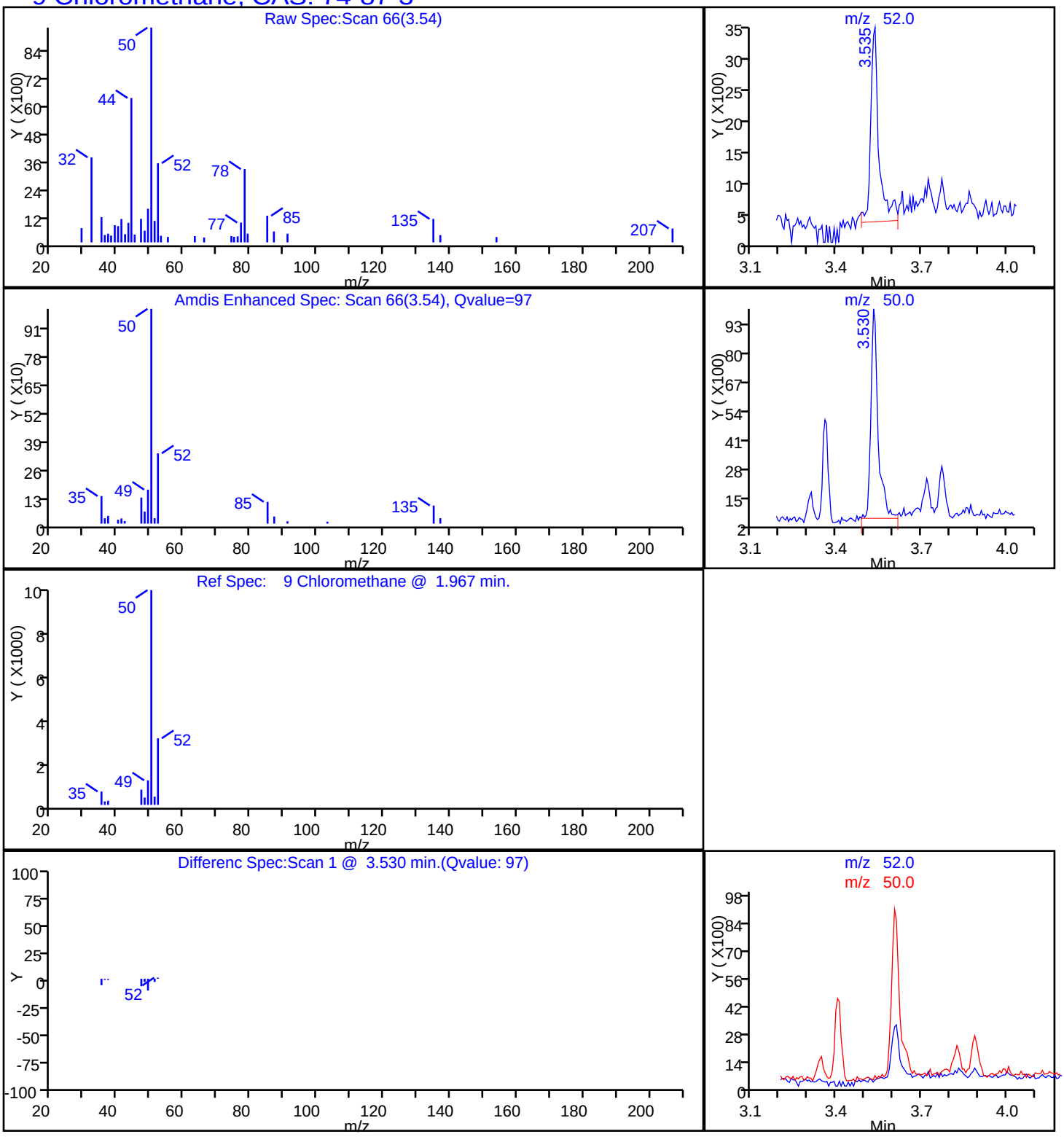
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



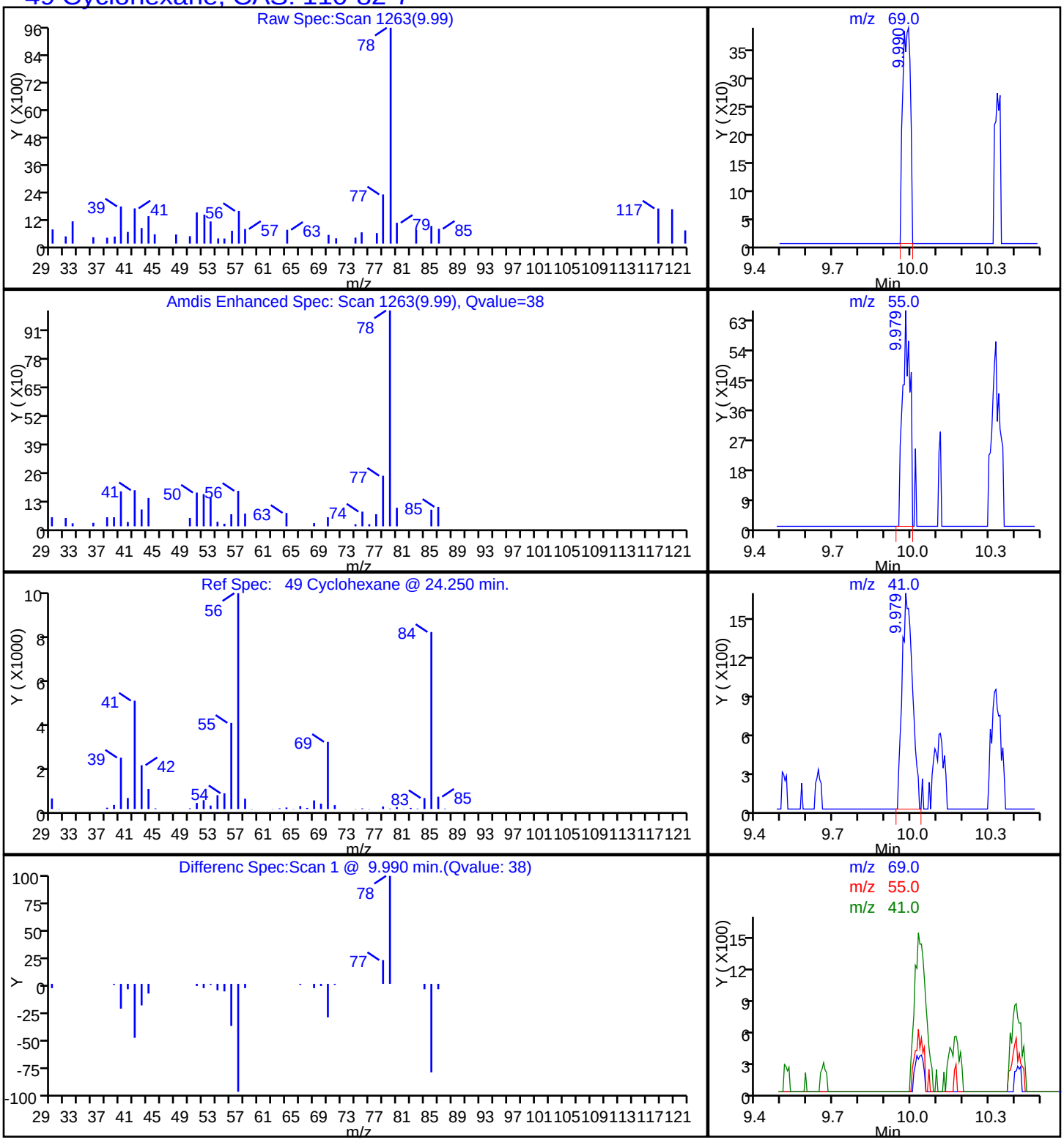
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



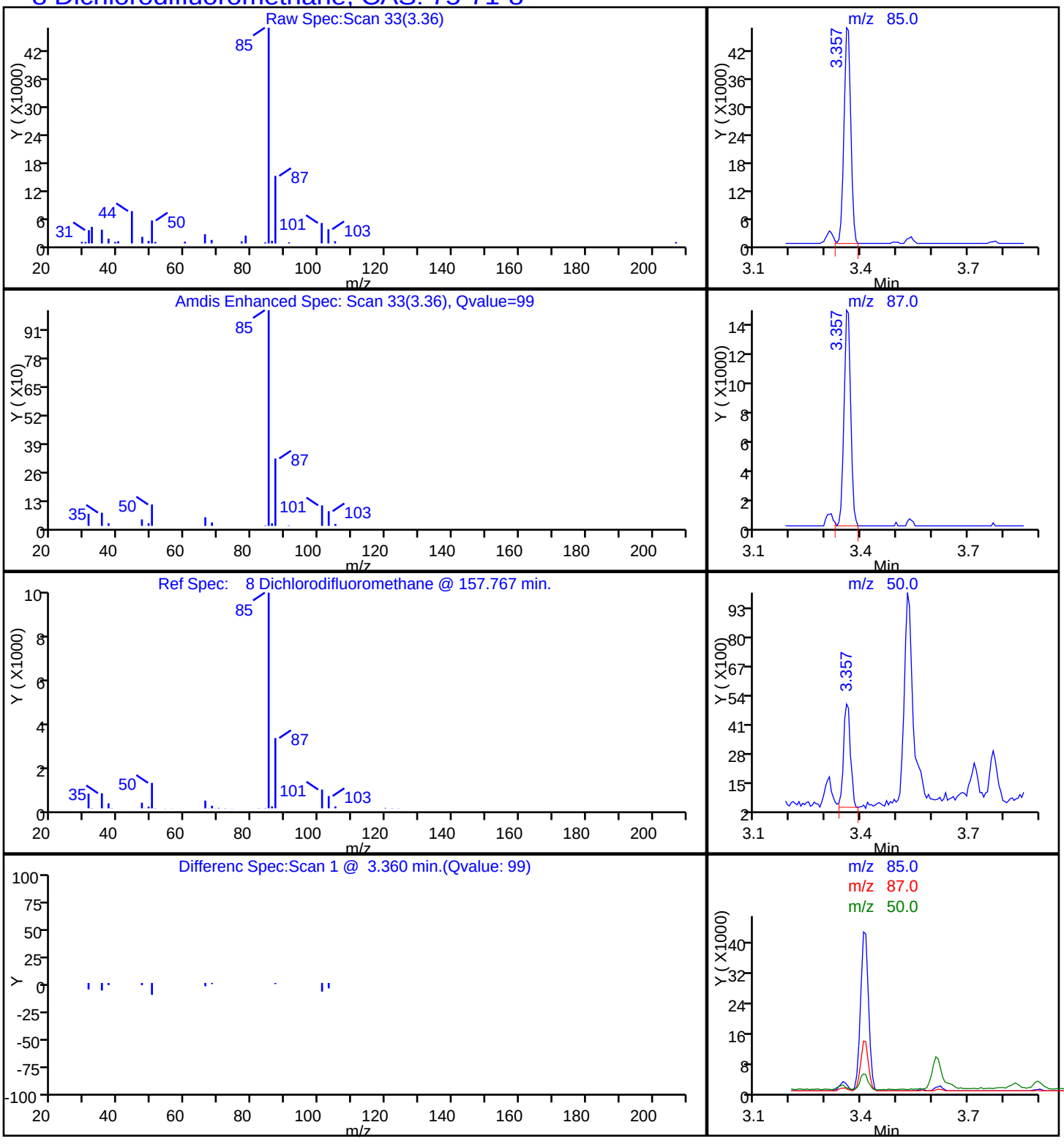
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D		
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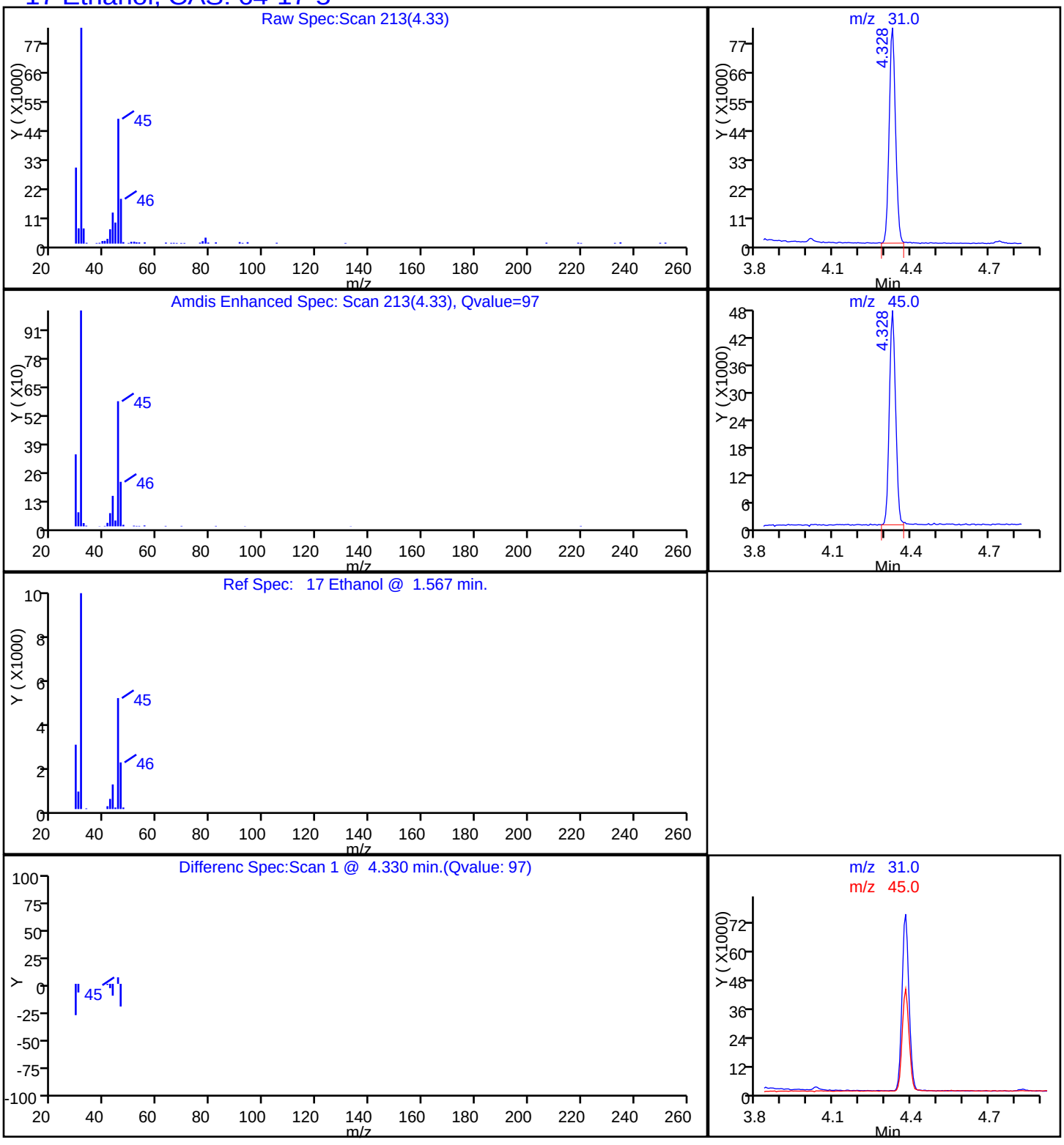
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

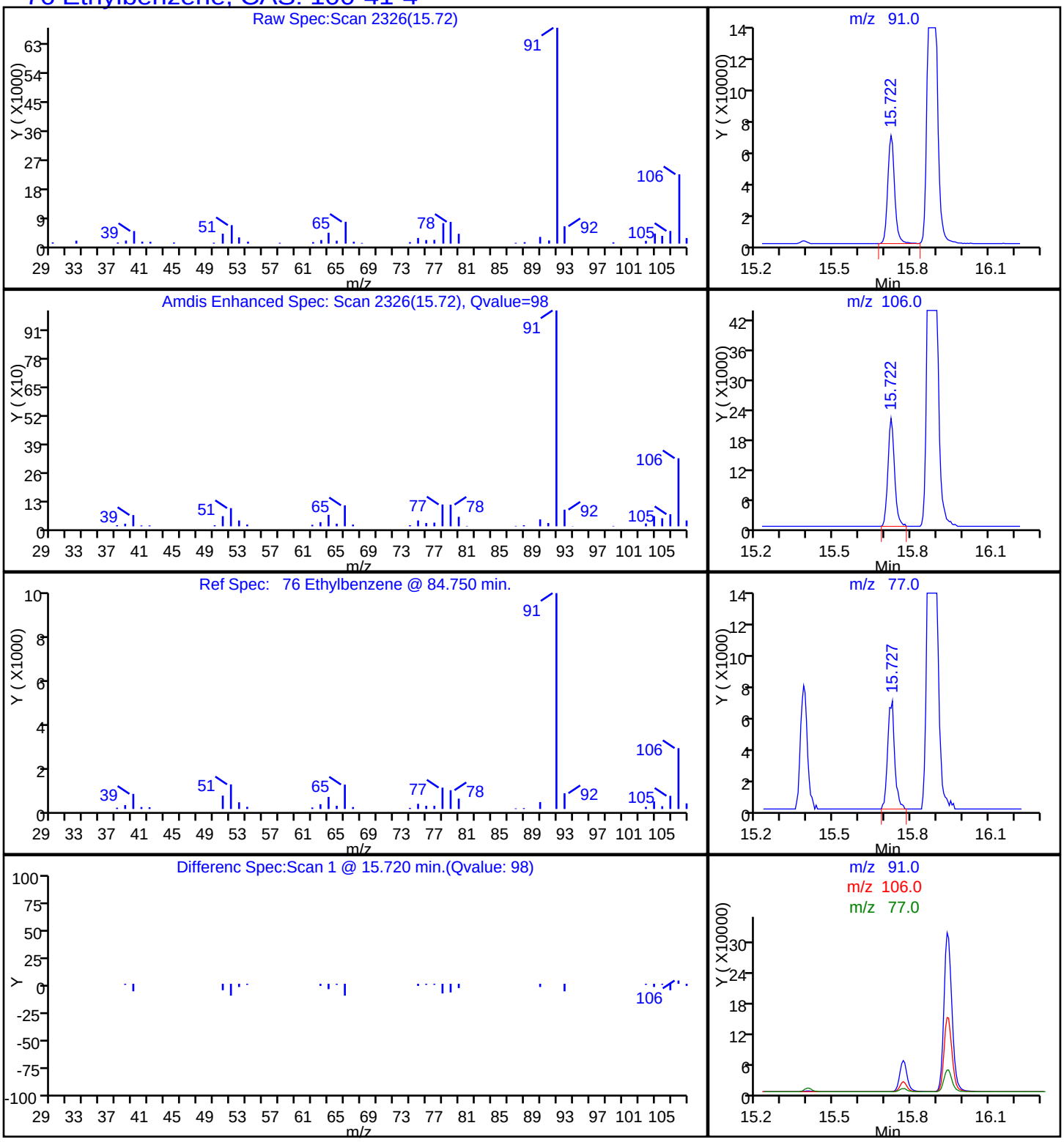


Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D				
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



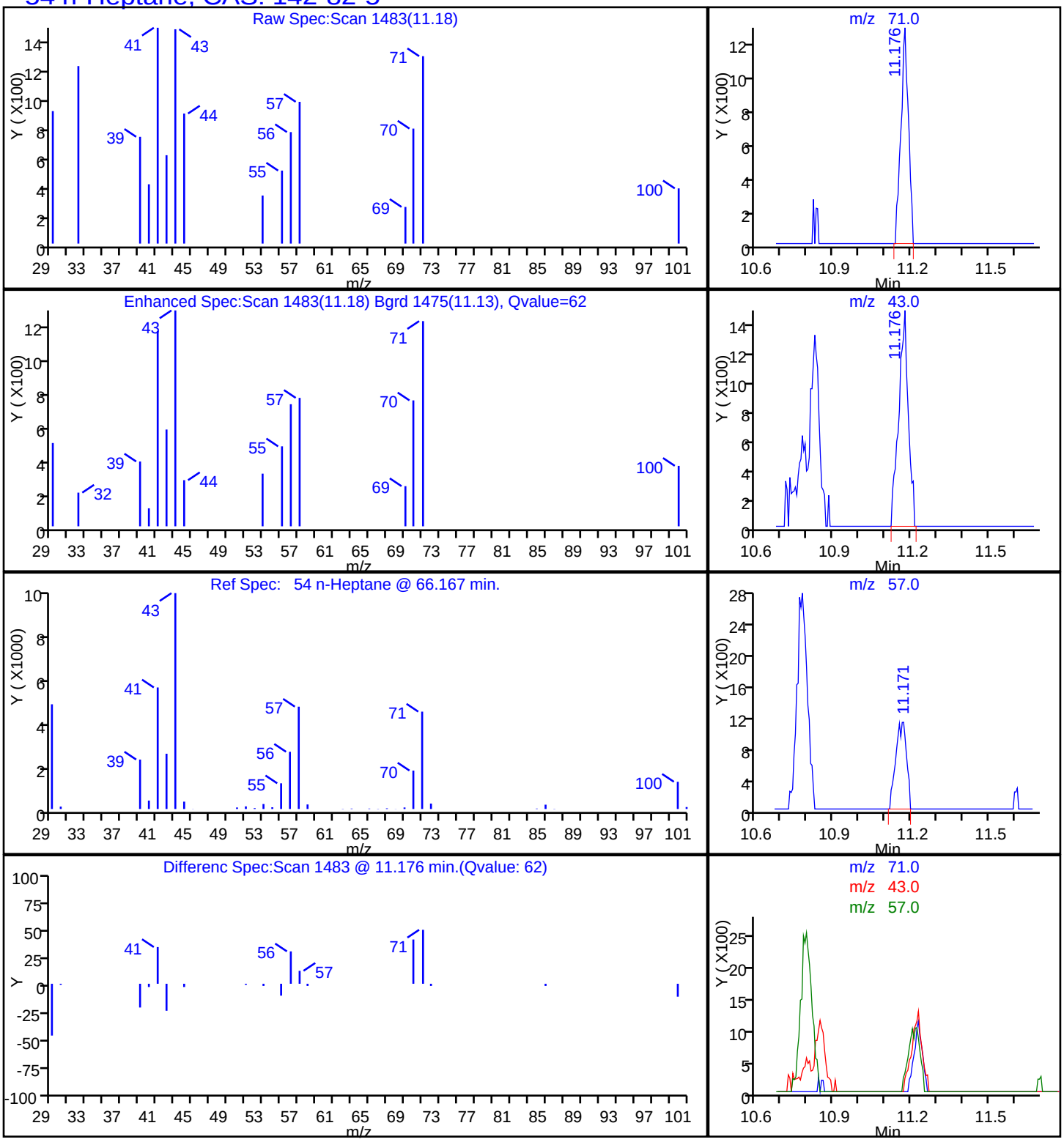
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



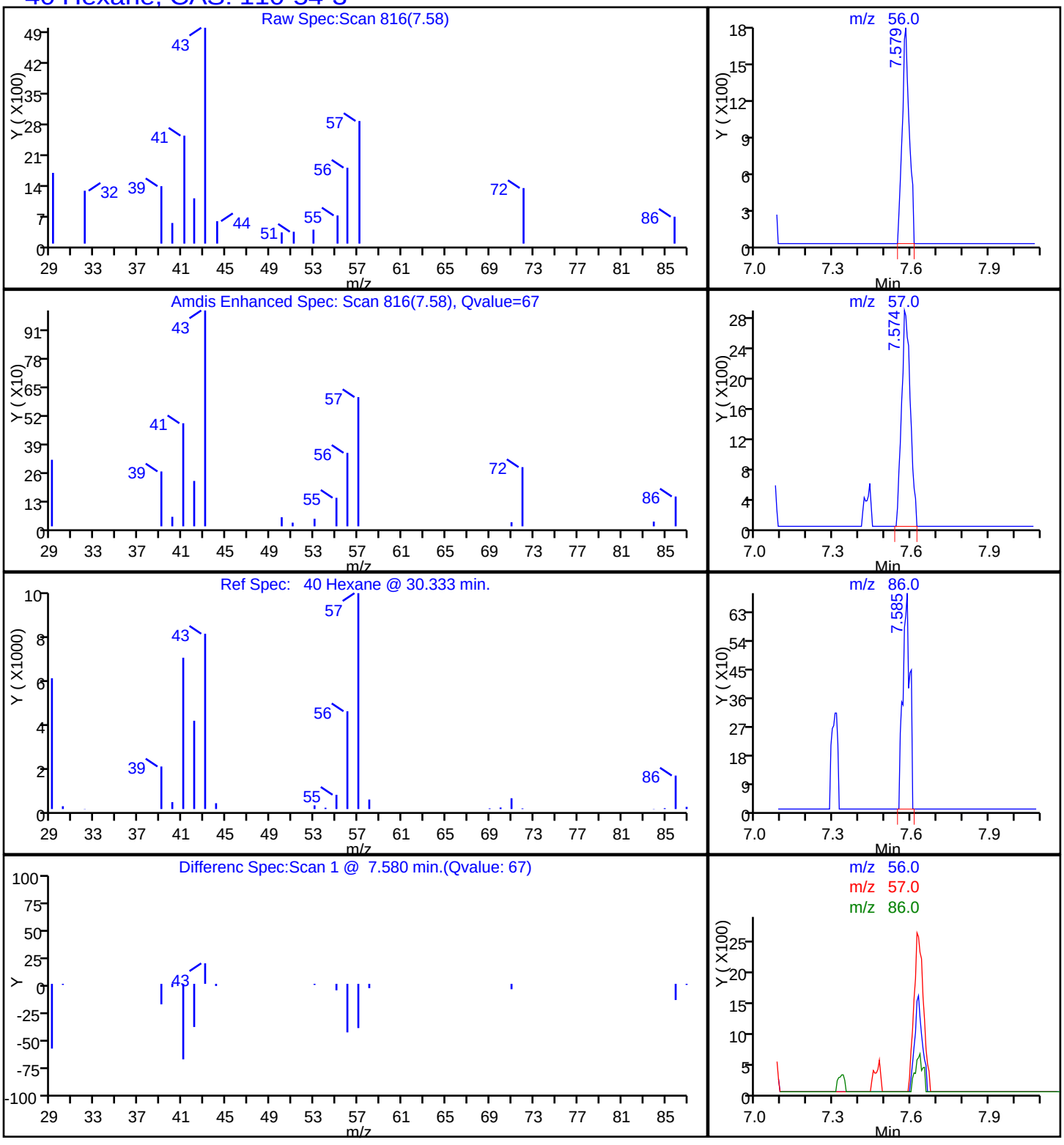
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



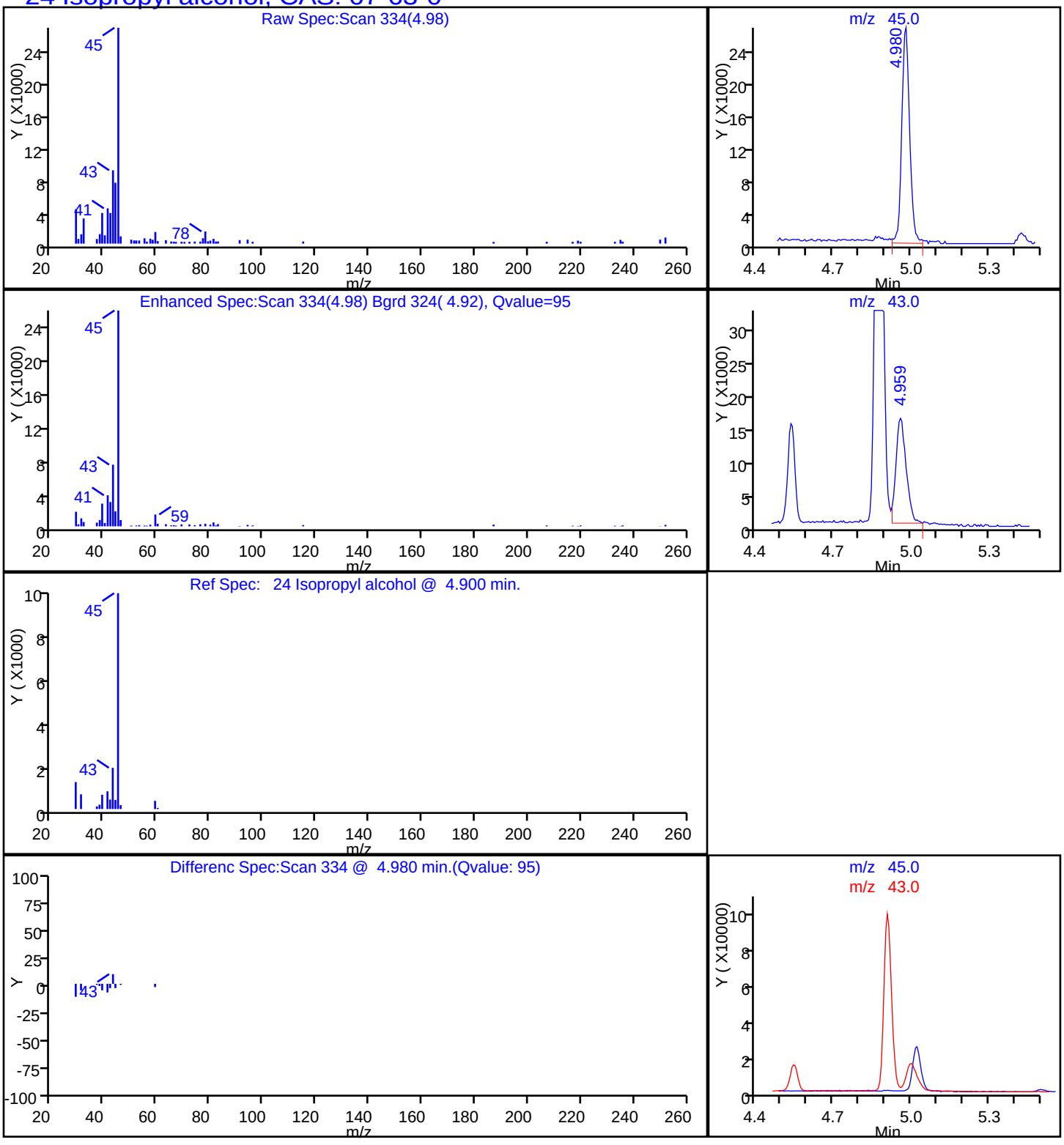
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



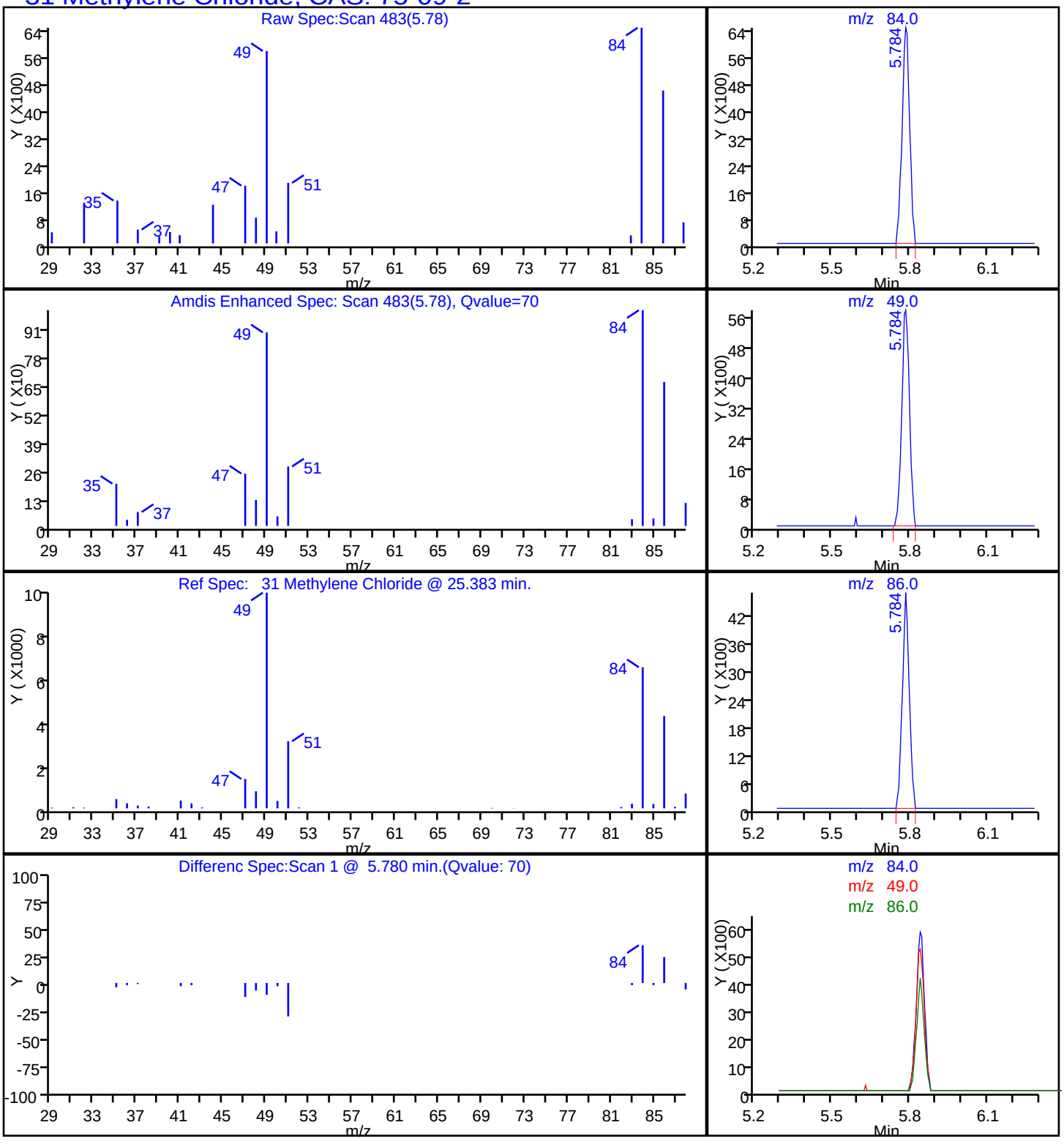
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

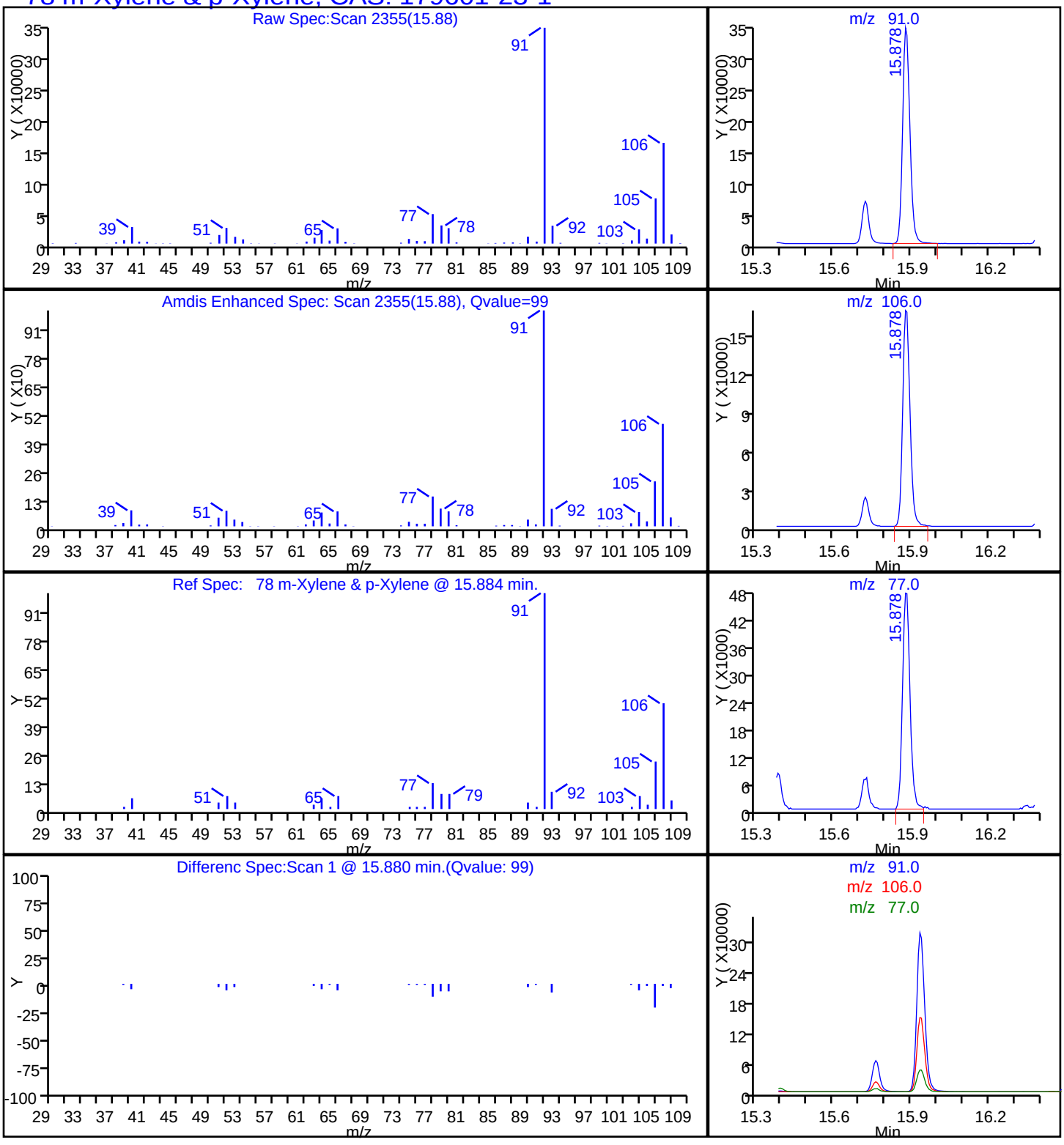


Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D				
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

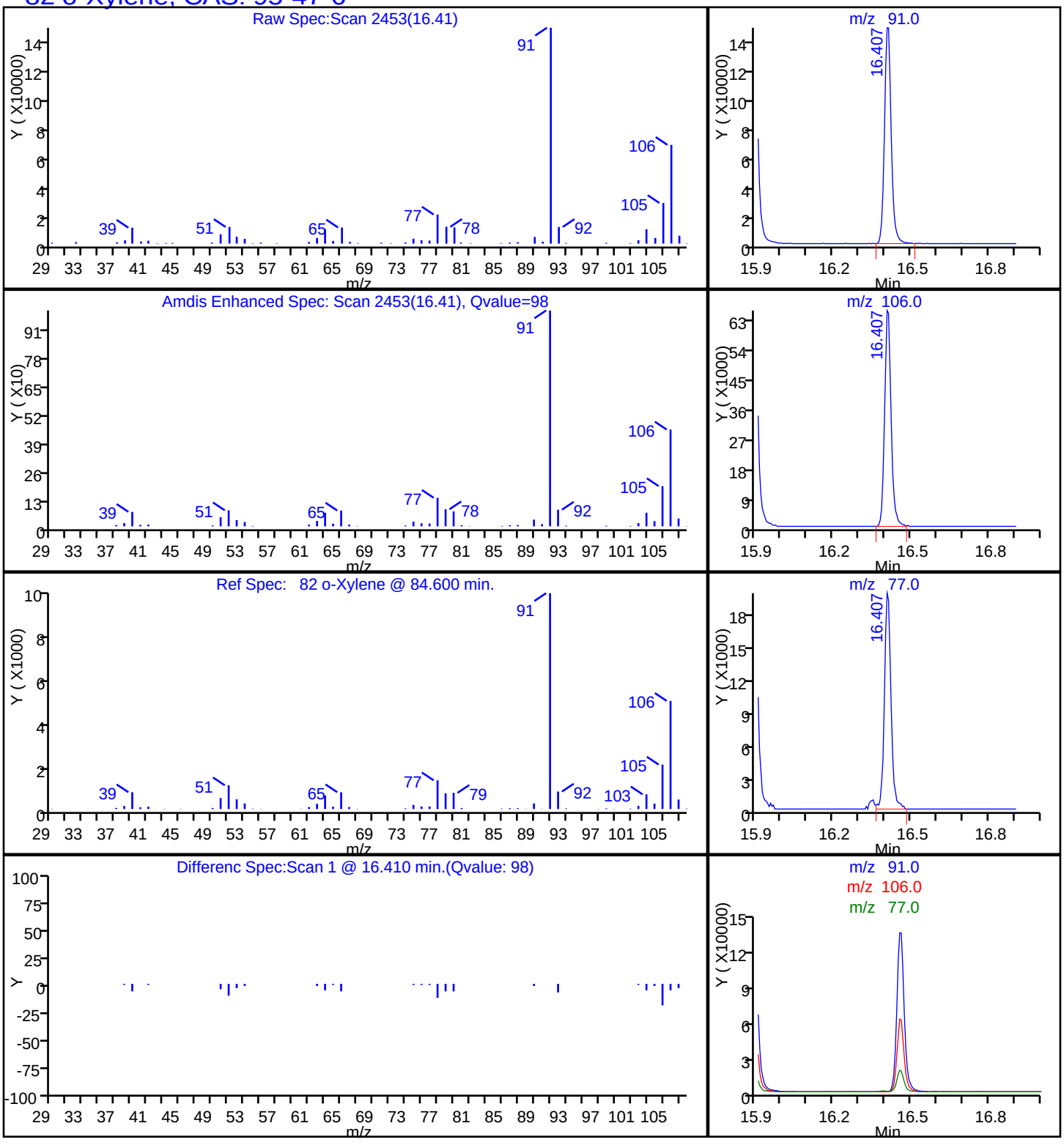


Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D		
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



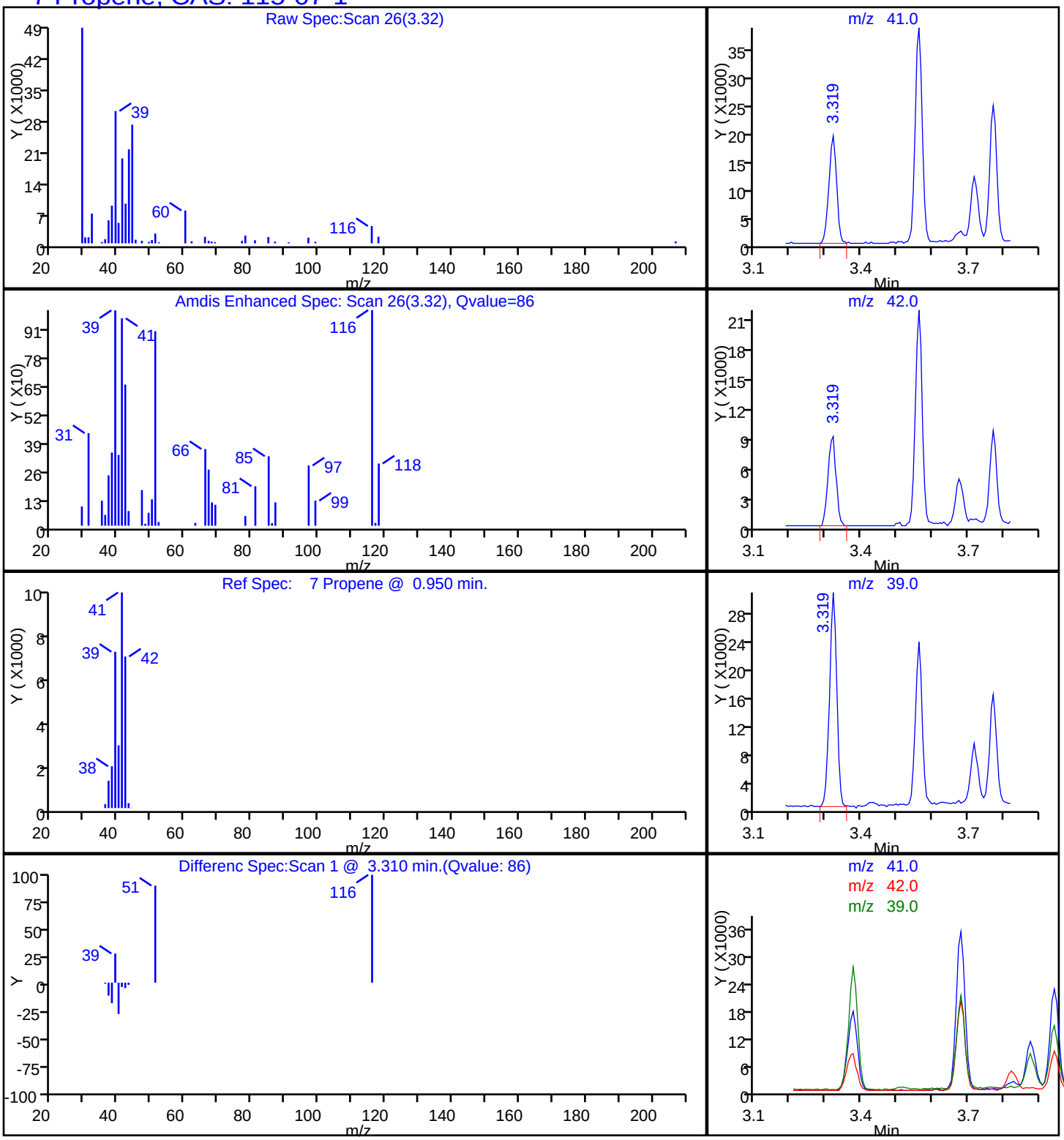
Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



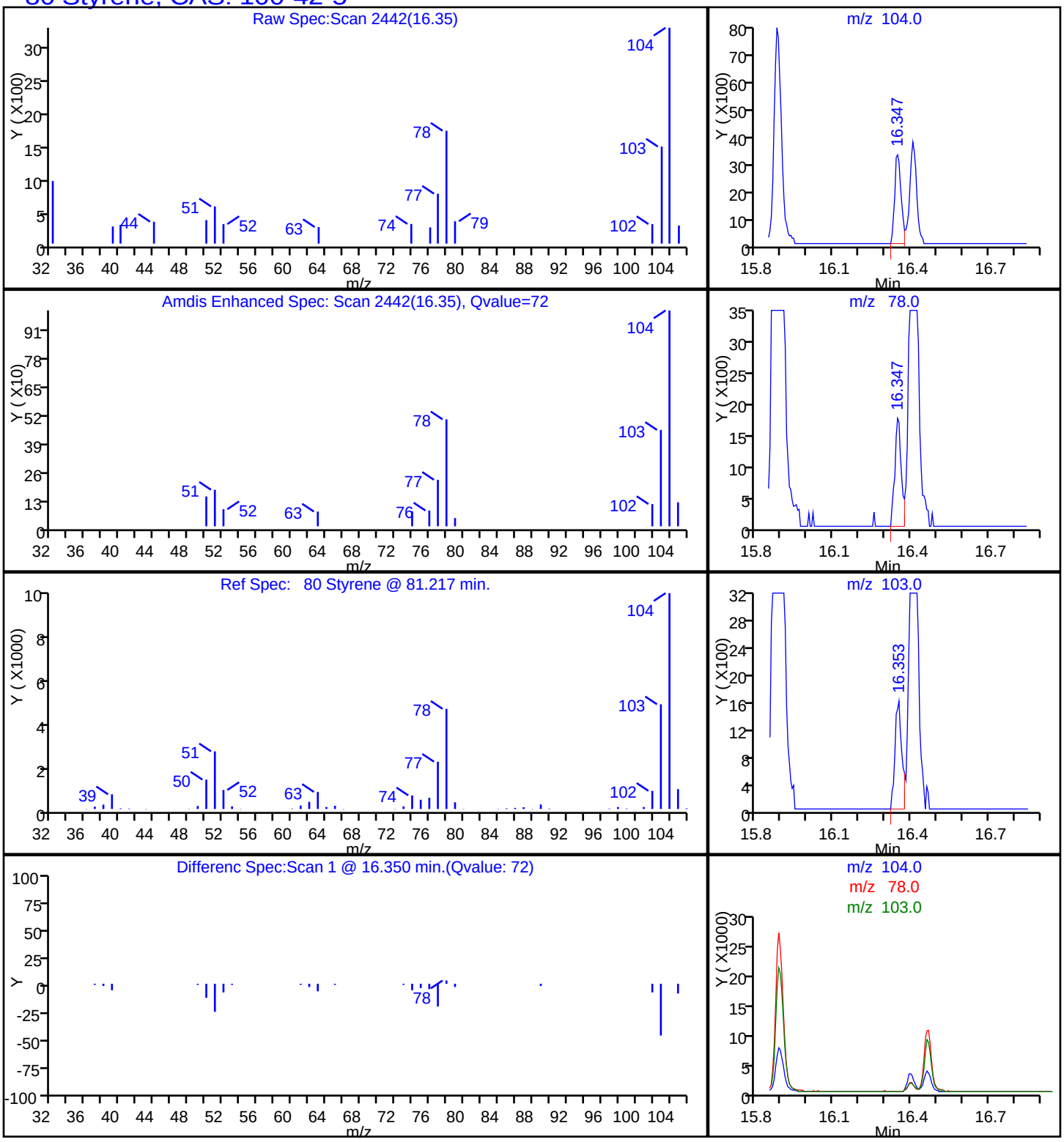
Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5		
Client ID:	PCV-IA1-B15				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



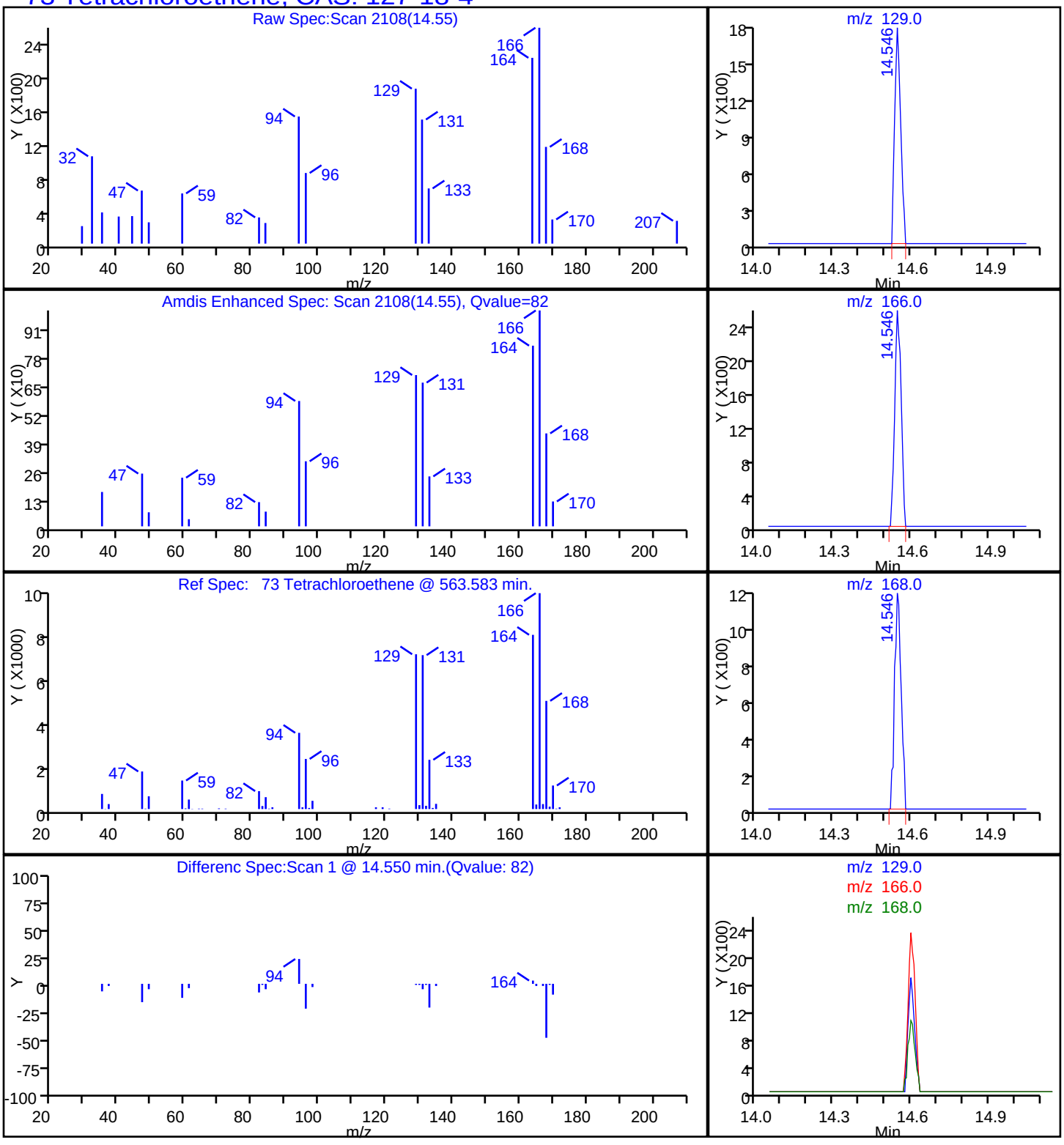
Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



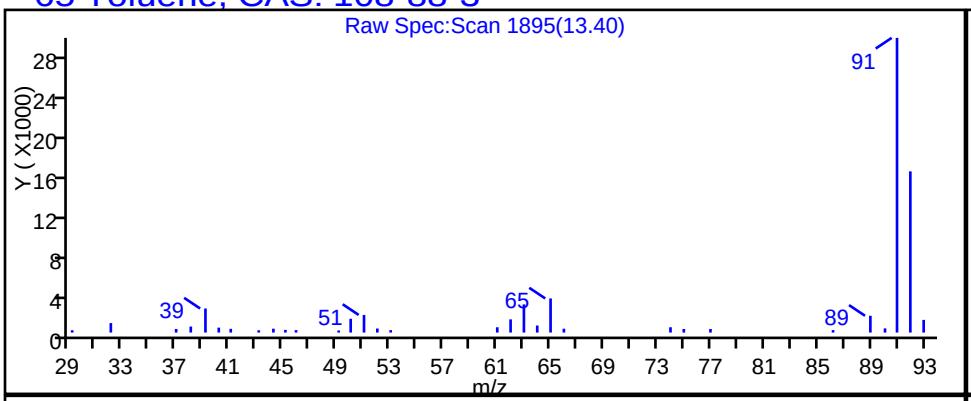
Report Date: 21-Mar-2014 09:31:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

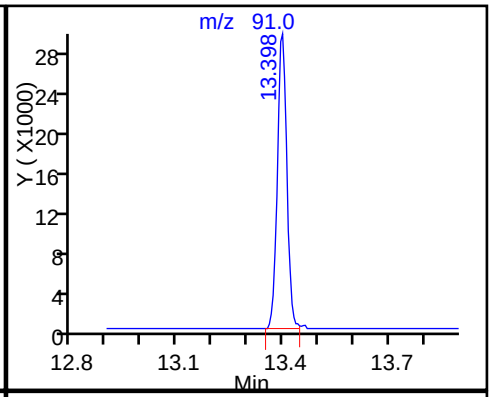
TestAmerica Knoxville

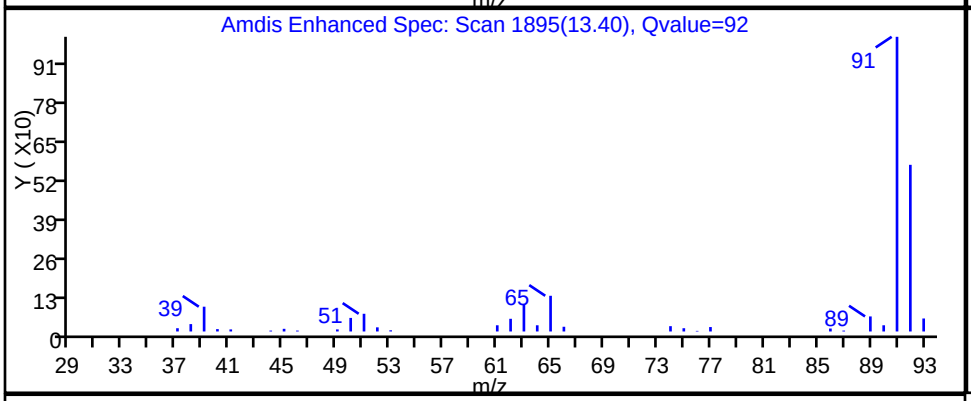
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

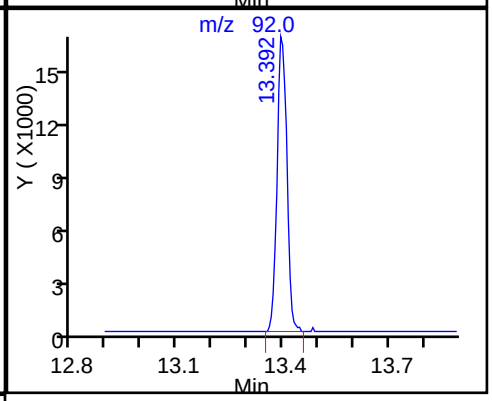
Injection Date:	20-Mar-2014 18:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-5	Lab Sample ID:	140-1060-5
Client ID:	PCV-IA1-B15		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

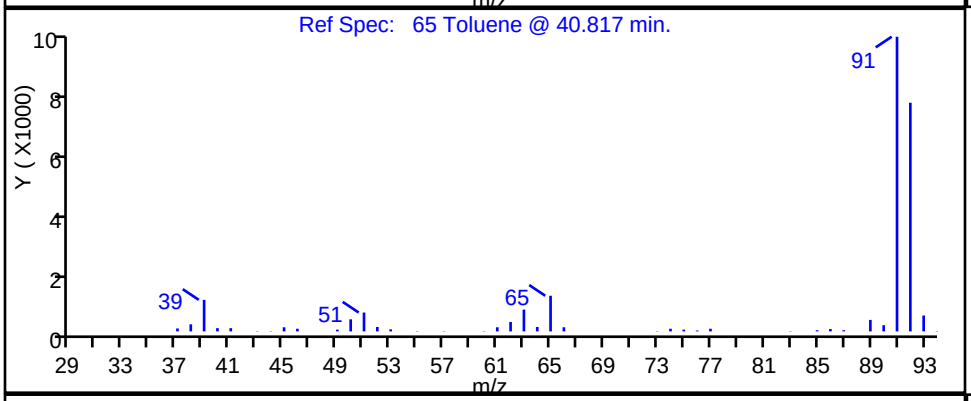
65 Toluene, CAS: 108-88-3

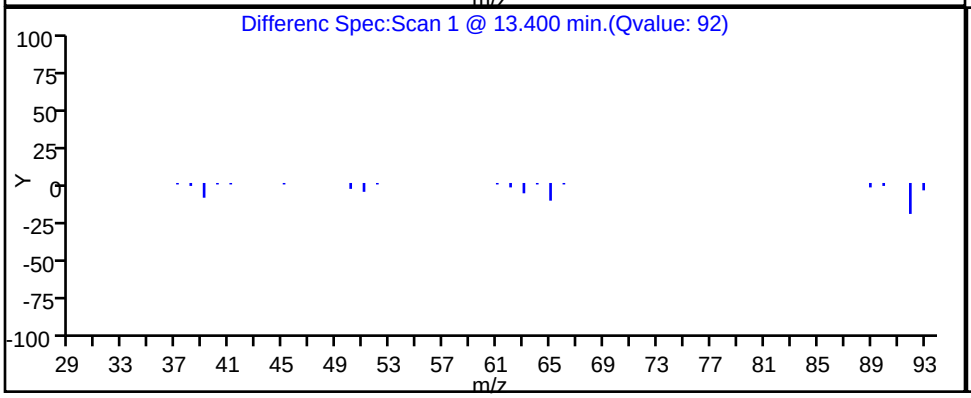


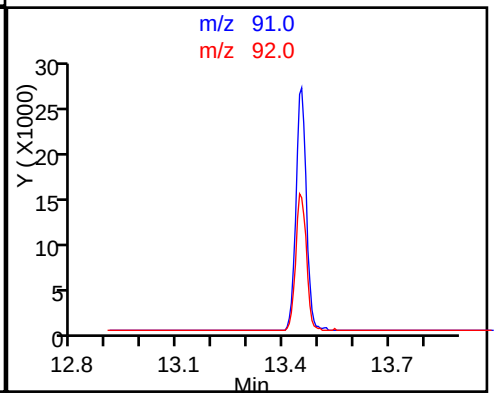












Report Date: 21-Mar-2014 09:31:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P103.D

Injection Date: 20-Mar-2014 18:00:30 Instrument ID: ME

Lims ID: 140-1060-A-5 Lab Sample ID: 140-1060-5

Client ID: PCV-IA1-B15

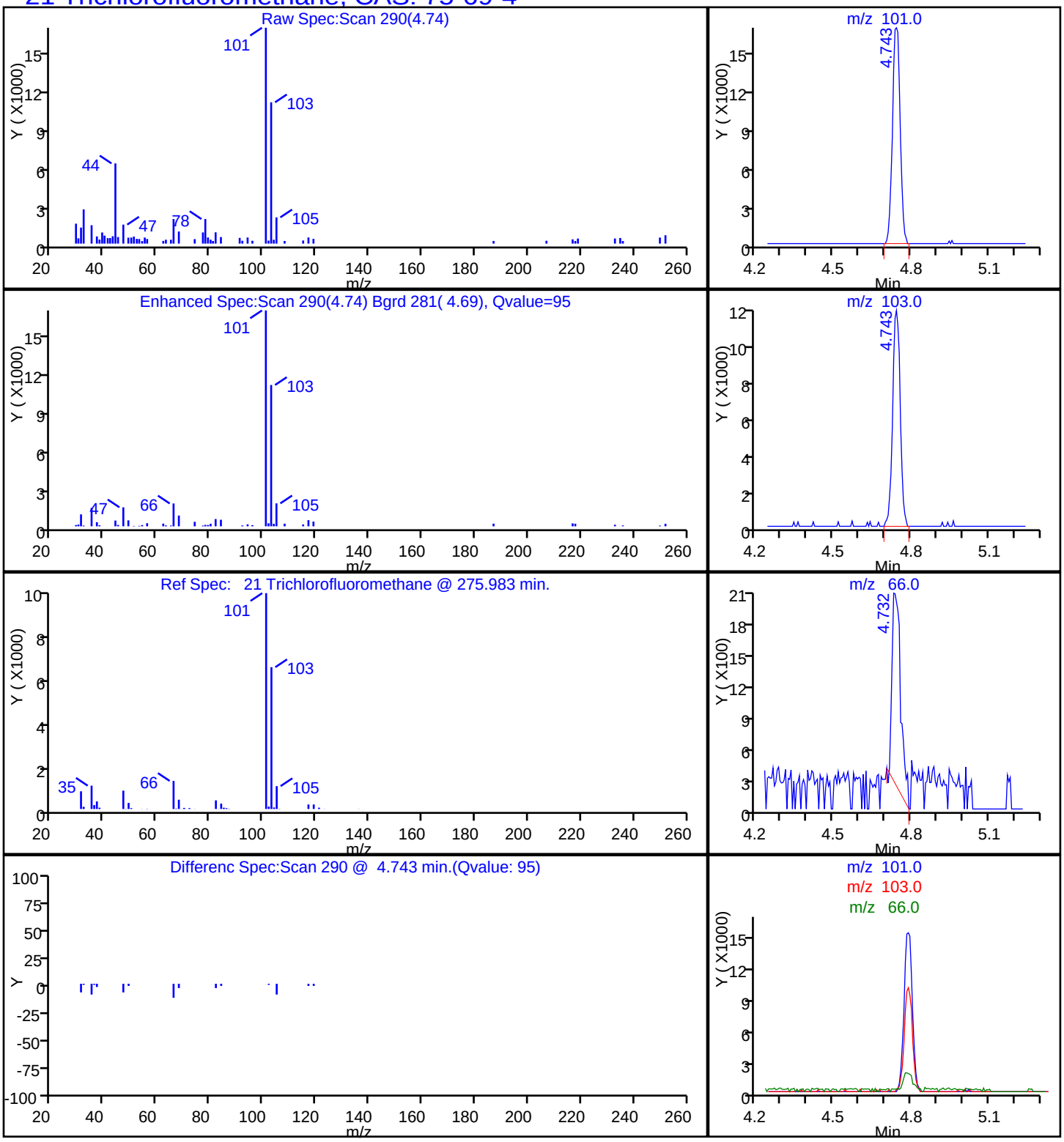
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.061	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.11	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.33	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.65		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.085	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.041	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.55		0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.040	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068
64-17-5	Ethanol	46.07	13		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.36		0.20	0.068
142-82-5	Heptane	100.21	0.054	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.19	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.91	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.76		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.2		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.70		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.086	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.41		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.47	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.57	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.73	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.42	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	7.7	J	12	3.3
71-43-2	Benzene	78.11	0.70		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.13	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	2.7		0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.14	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34
64-17-5	Ethanol	46.07	24		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.6		0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.66	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.2	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.6		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	9.6		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	3.0		0.87	0.26
115-07-1	Propene	42.08	2.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.58	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B15 Lab Sample ID: 140-1060-6

Matrix: Air Lab File ID: EC20P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:16

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D
Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6
Client ID: PCV-IA2-B15
Sample Type: Client
Inject. Date: 20-Mar-2014 18:46:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-6
Misc. Info.: E032014,TO155,,140-0000533-008
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:32:54 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:32:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	69	340873	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1681488	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1465089	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1238984	3.86	
7 Propene	41	3.320	3.314	0.006	83	45347	0.5288	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	96	61458	0.1630	
9 Chloromethane	52	3.535	3.530	0.005	99	5905	0.1962	
13 Butadiene	54	3.778	3.772	0.006	37	10569	0.1315	
17 Ethanol	31	4.339	4.317	0.022	97	172382	5.06	
19 2-Methylbutane	43	4.538	4.538	0.0	86	31133	0.2608	
21 Trichlorofluoromethane	101	4.749	4.748	0.001	94	41003	0.1084	
23 Acetone	58	4.878	4.883	-0.005	92	67139	1.30	
24 Isopropyl alcohol	45	4.991	4.970	0.021	98	48439	0.3644	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.601	5.611	-0.010	77	5738	0.0245	
31 Methylene Chloride	84	5.789	5.789	0.0	76	29575	0.3036	
33 Carbon disulfide	76	5.935	5.940	-0.005	84	5767	0.0163	
40 Hexane	56	7.580	7.585	-0.005	83	6798	0.0750	
43 Chloroform	83	8.345	8.356	-0.011	81	64671	0.2214	
49 Cyclohexane	69	9.990	9.984	0.006	41	1024	0.0161	
48 Benzene	78	9.990	9.995	-0.005	94	29661	0.0876	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	91	8566	0.0264	
54 n-Heptane	71	11.176	11.182	-0.006	64	2754	0.0215	
65 Toluene	91	13.398	13.398	0.0	94	64766	0.1650	
73 Tetrachloroethene	129	14.546	14.552	-0.006	84	5729	0.0343	
76 Ethylbenzene	91	15.722	15.722	0.0	98	73008	0.1451	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	349604	0.8837	
82 o-Xylene	91	16.412	16.412	0.0	97	119622	0.2797	
88 4-Ethyltoluene	105	17.712	17.712	0.011	90	18351	0.0339	M
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	85	20677	0.0460	

QC Flag Legend

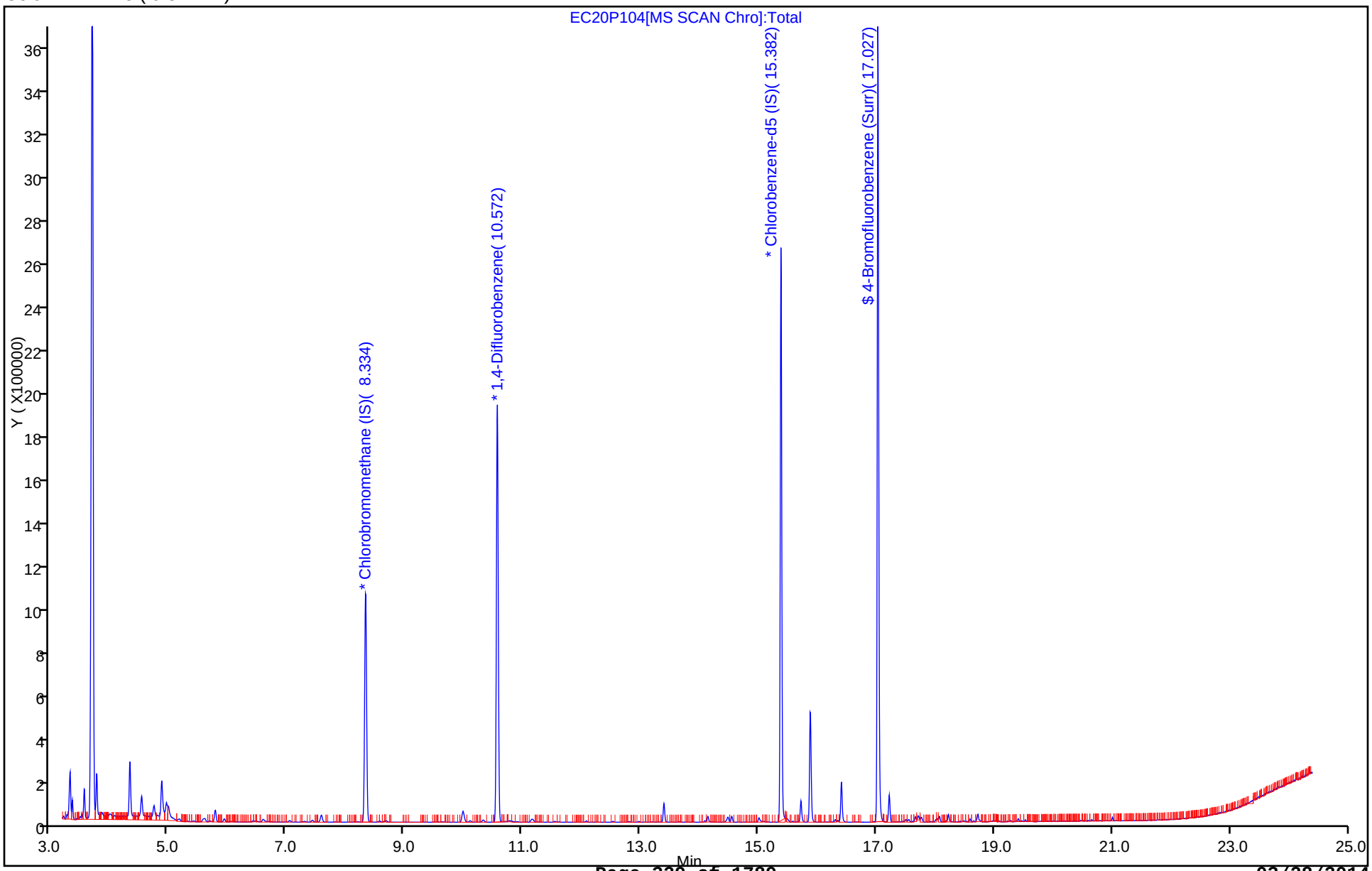
Review Flags
M - Manually Integrated

Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D				
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6	Worklist Smp#:	8
Client ID:	PCV-IA2-B15				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

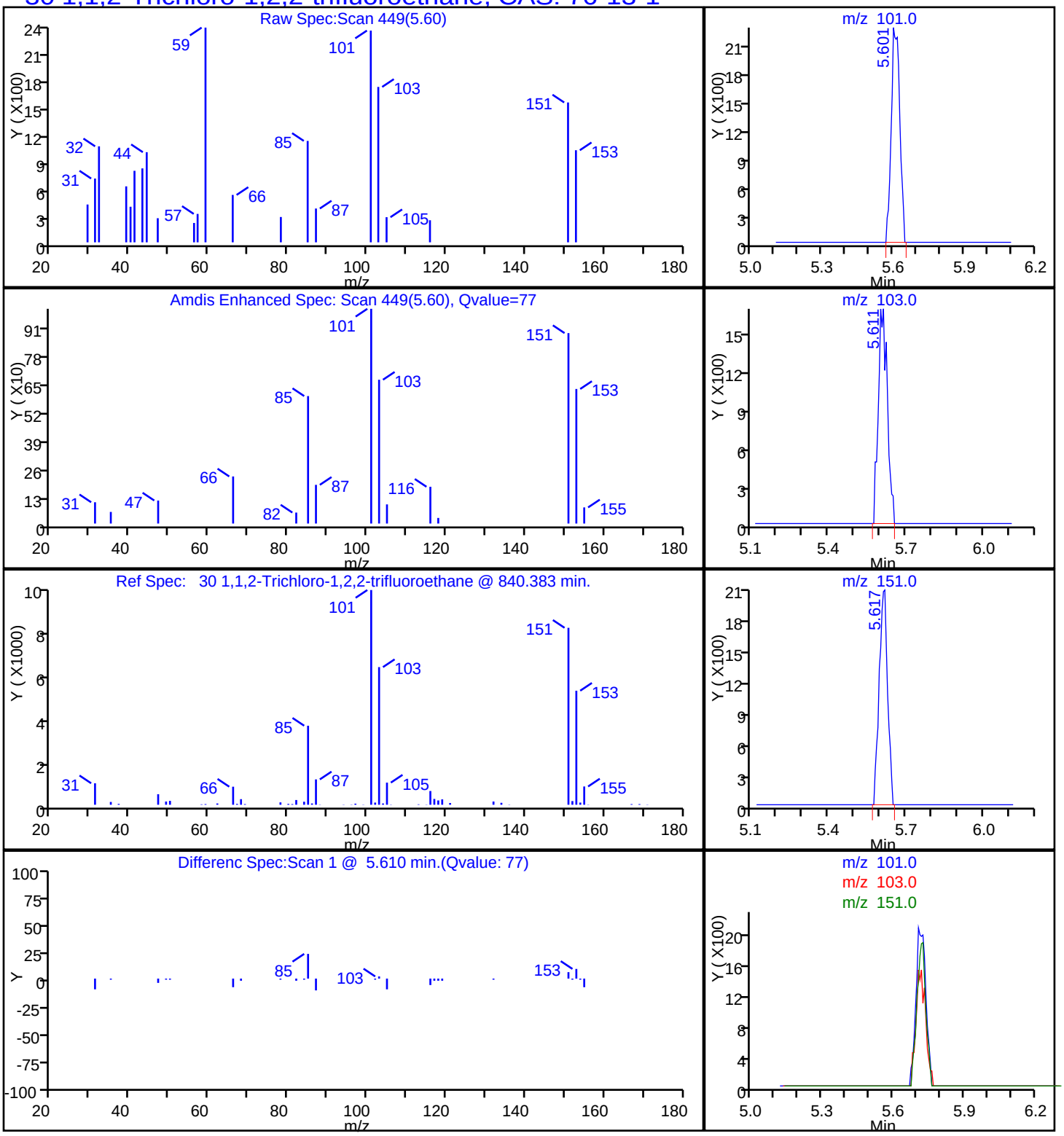
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



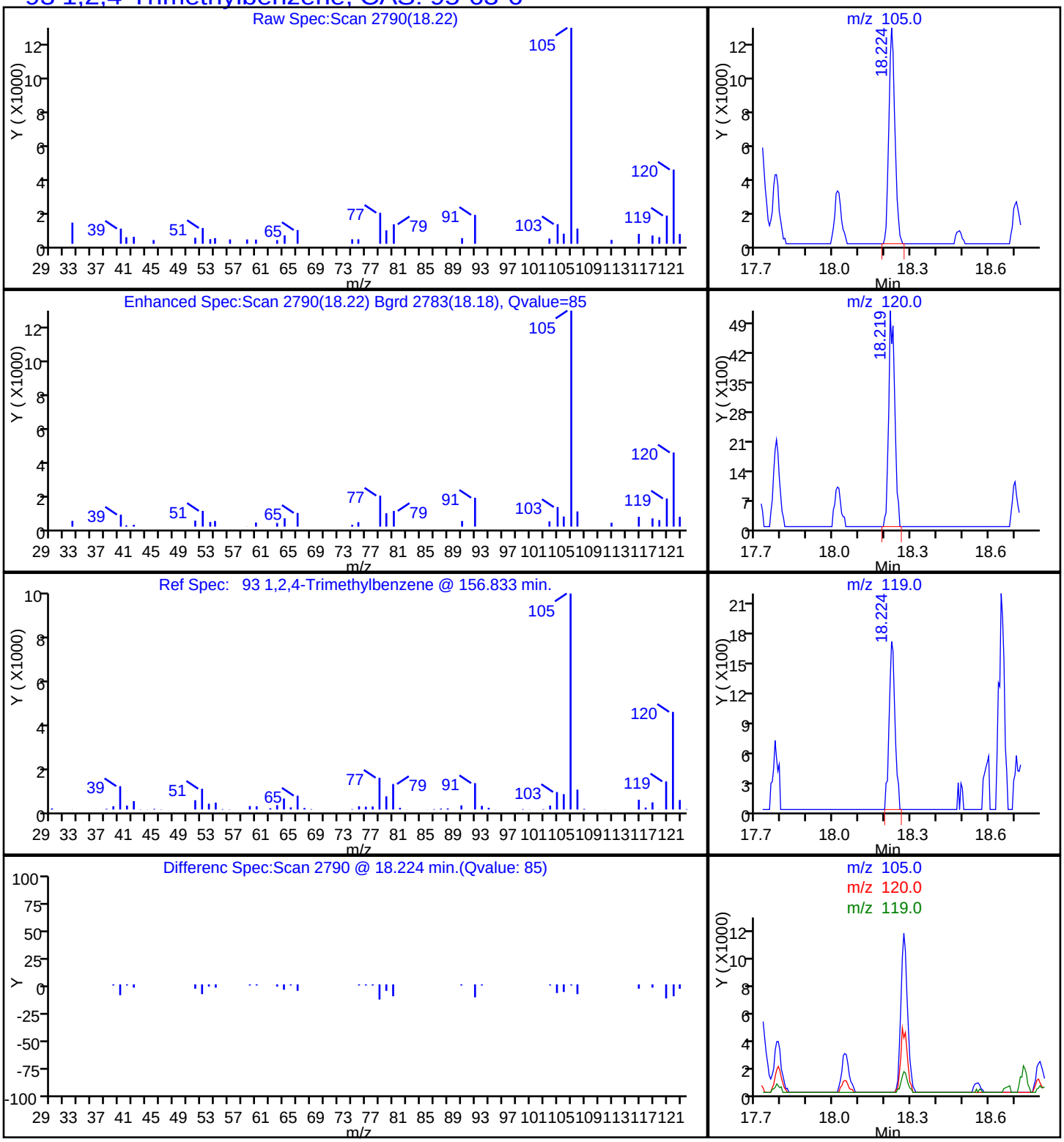
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



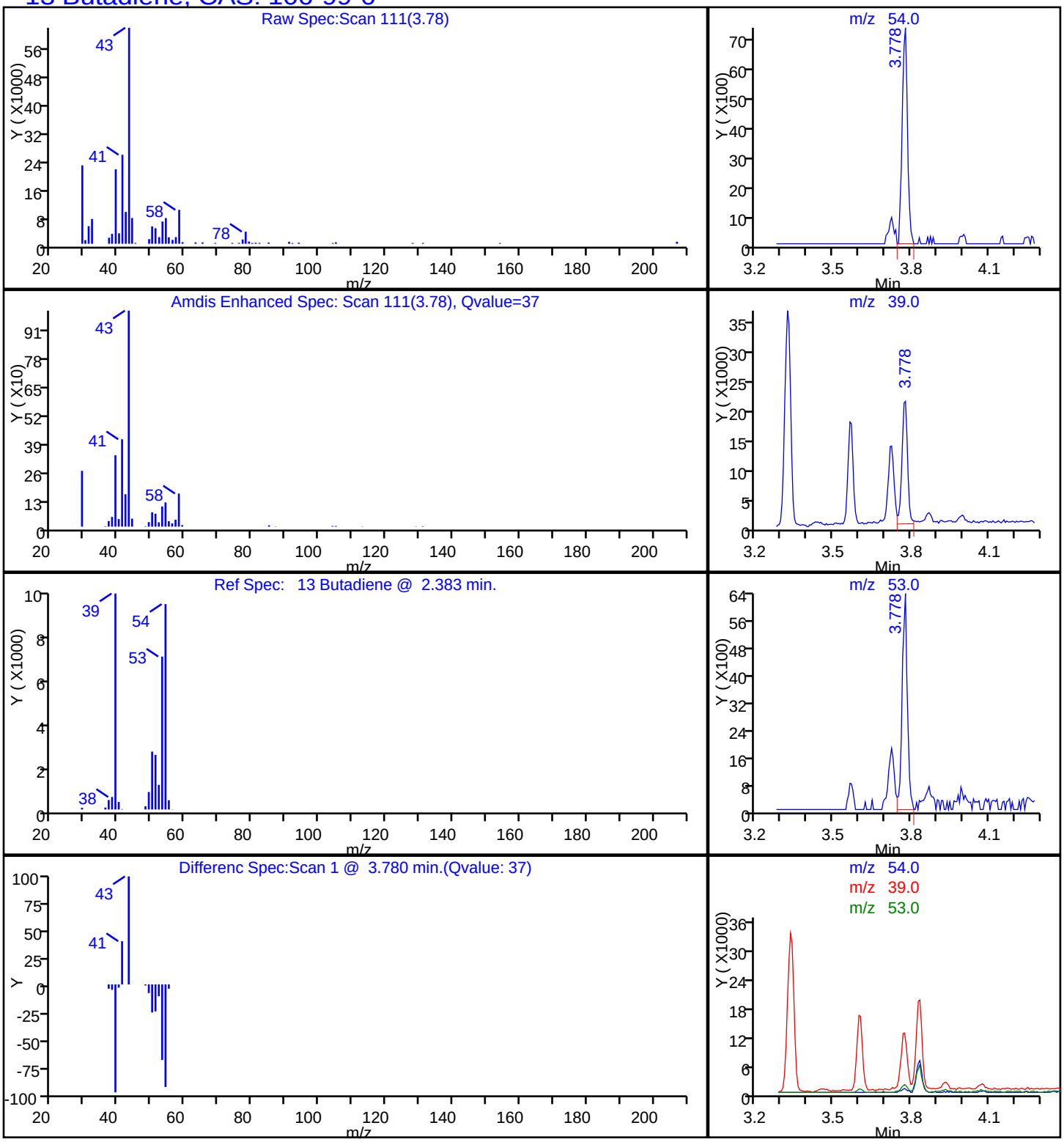
Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

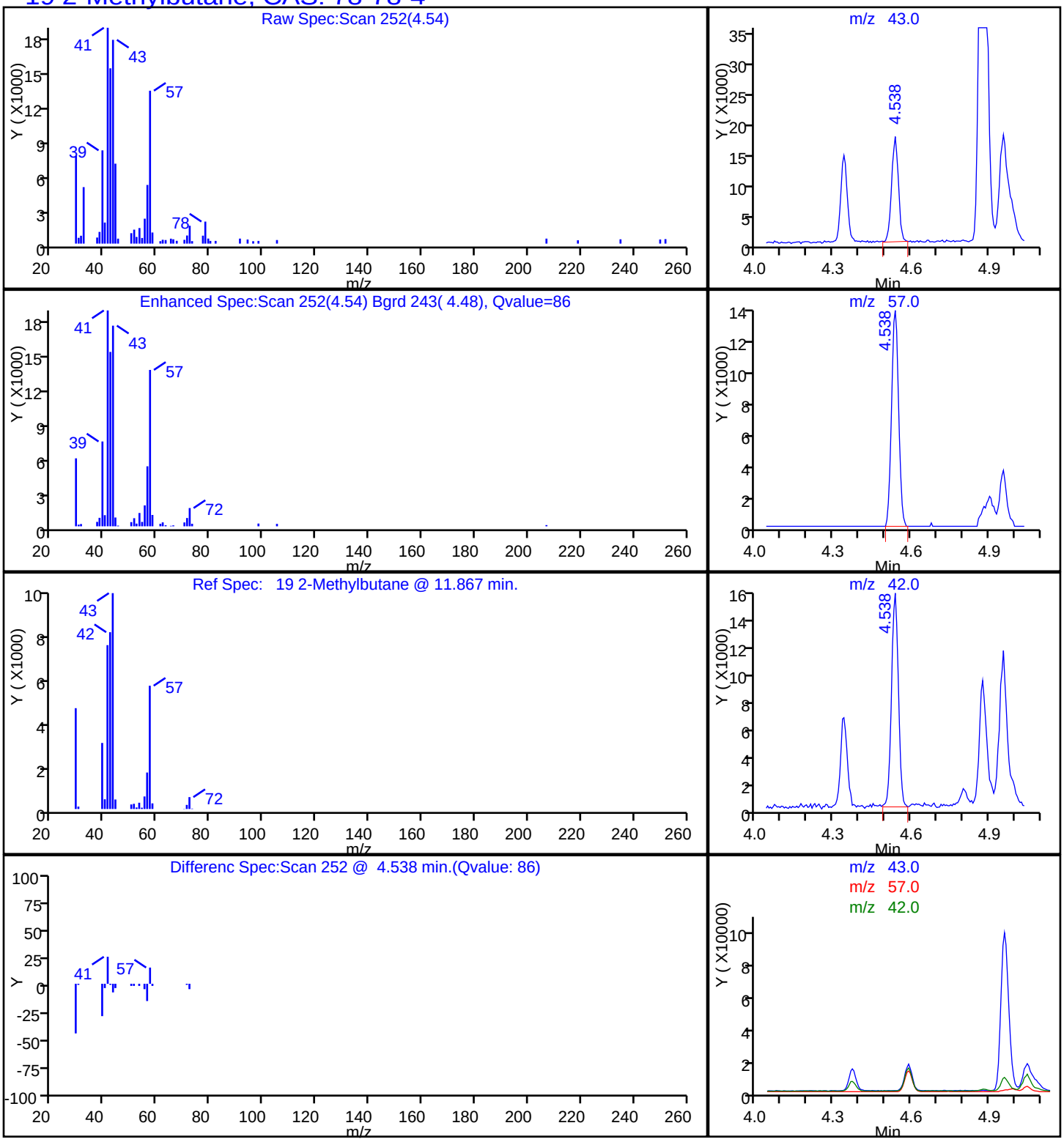
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



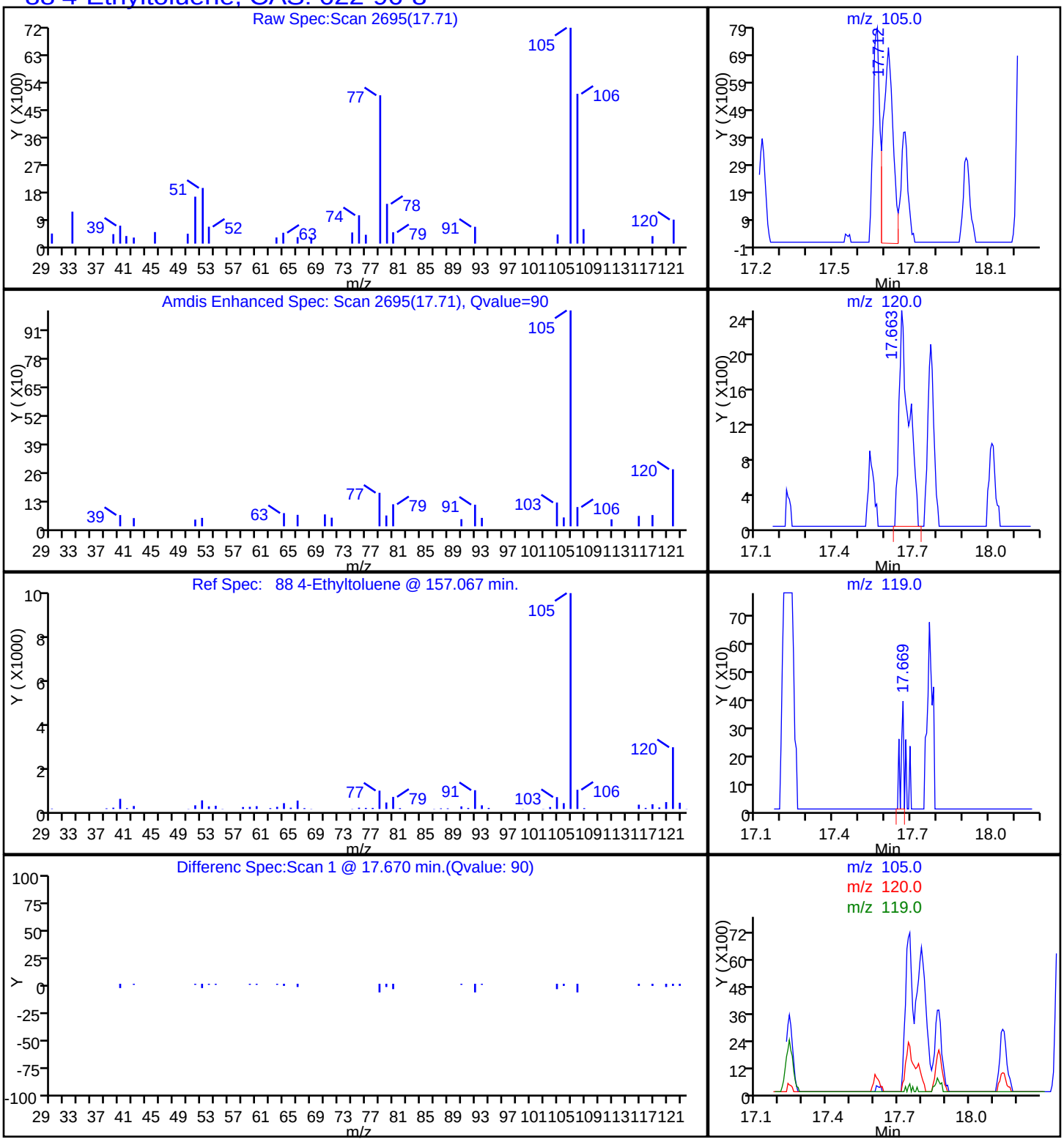
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

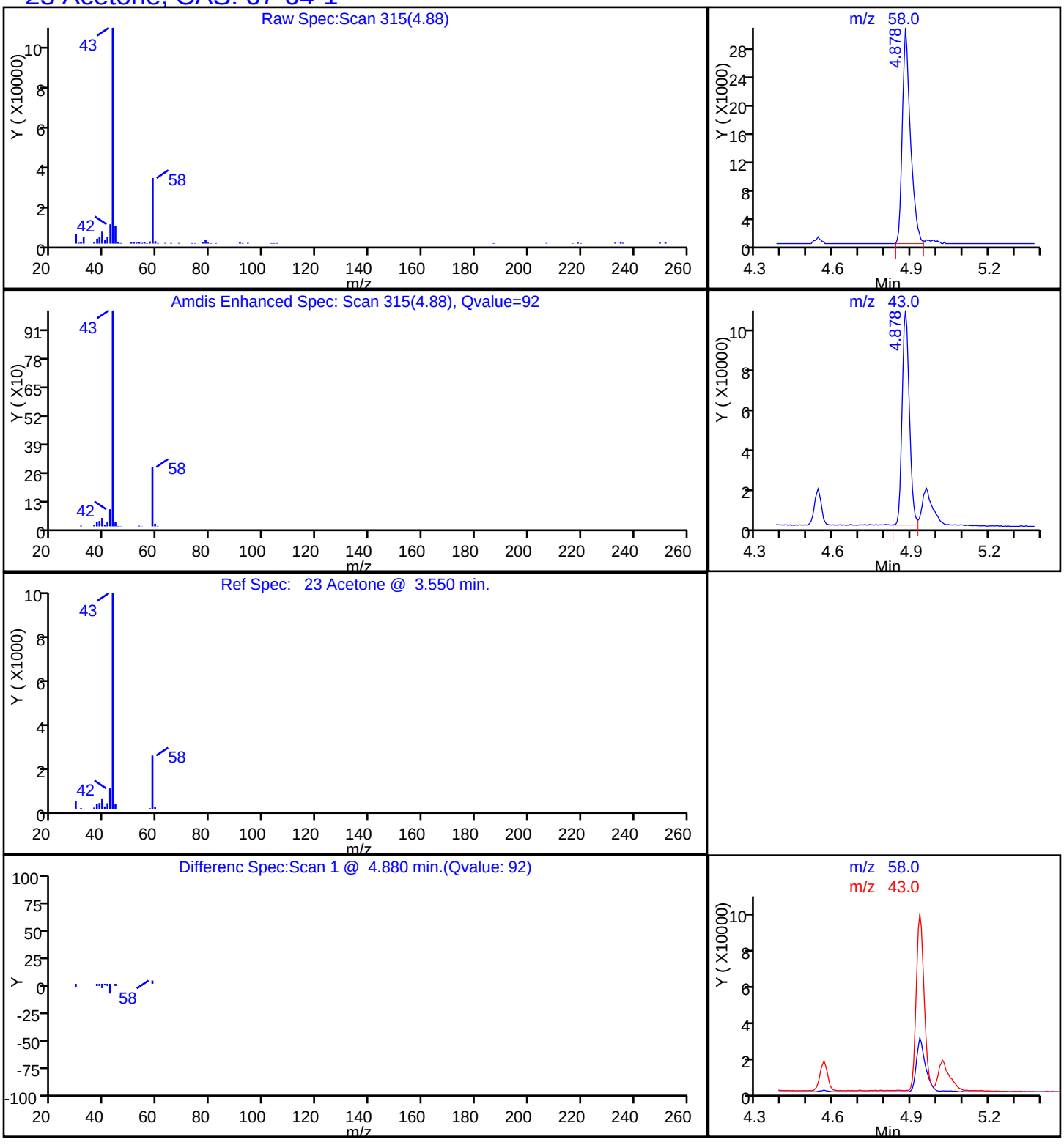
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

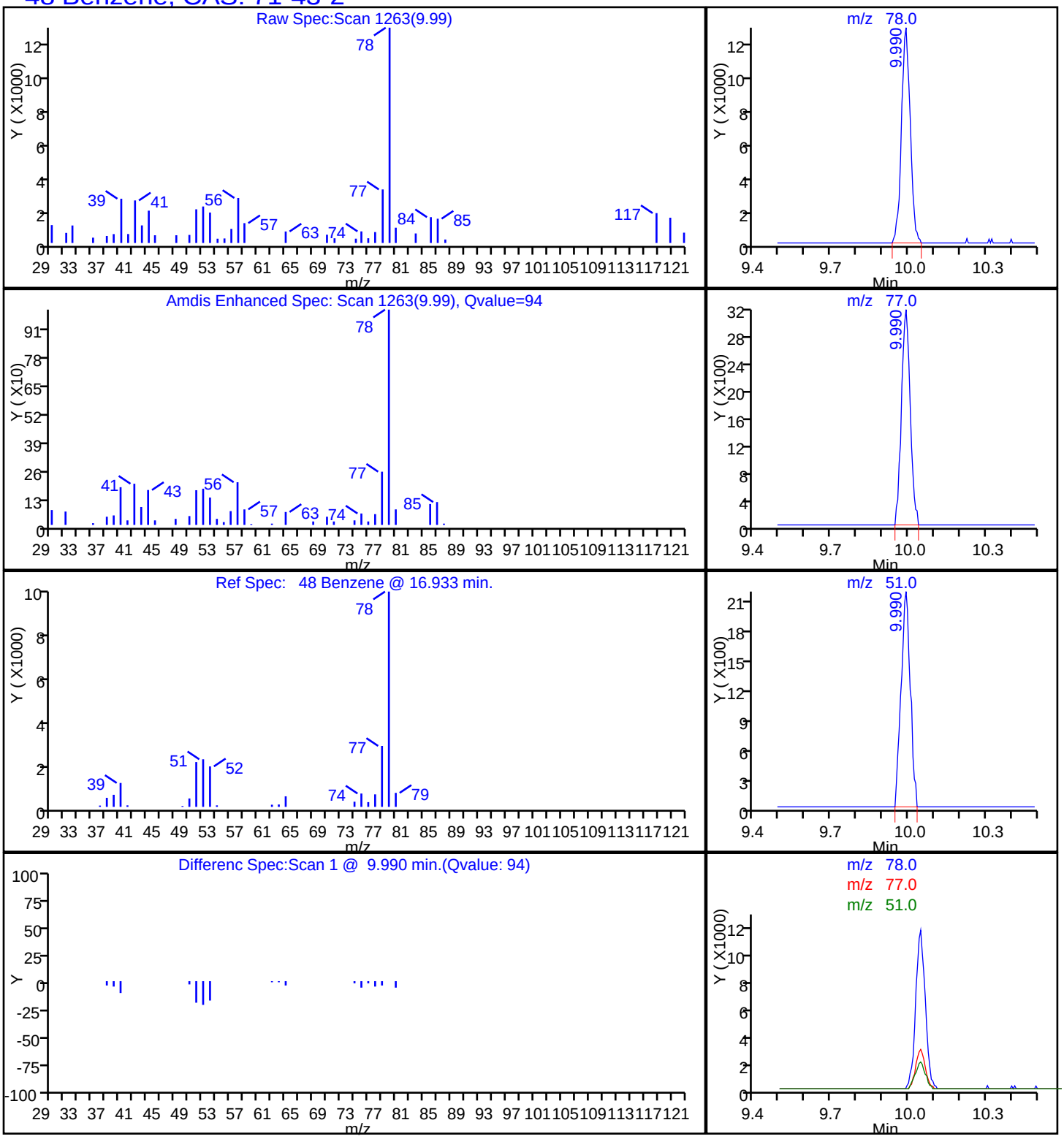


Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D		
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



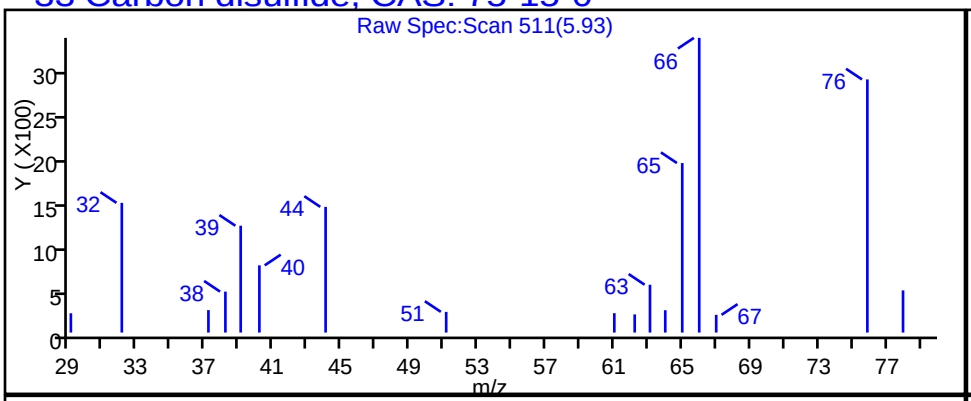
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

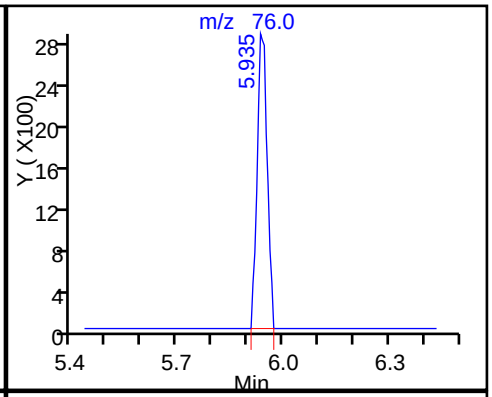
TestAmerica Knoxville

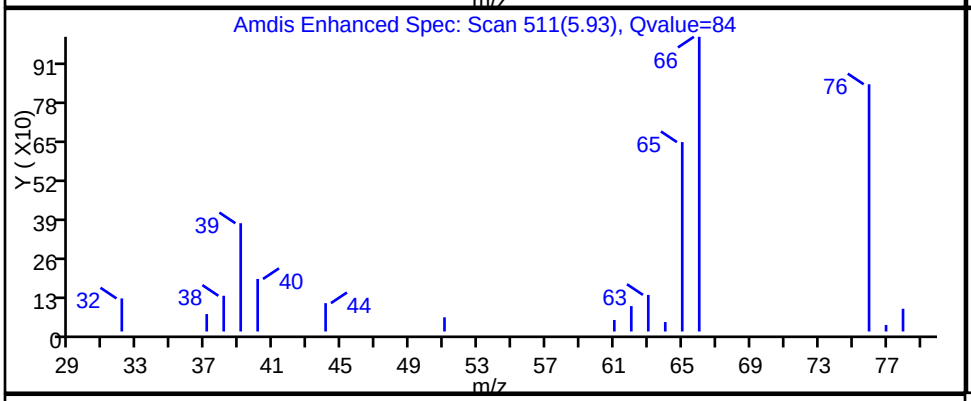
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

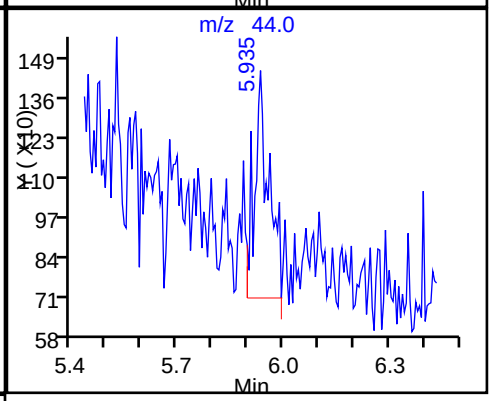
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

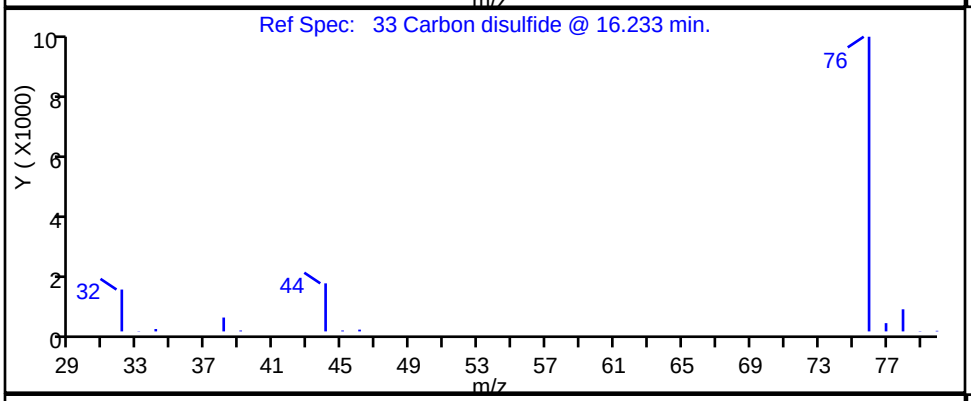
33 Carbon disulfide, CAS: 75-15-0

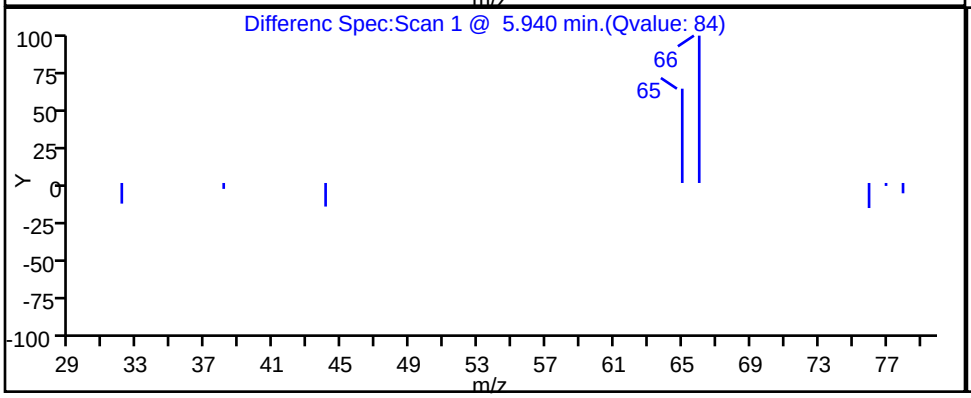


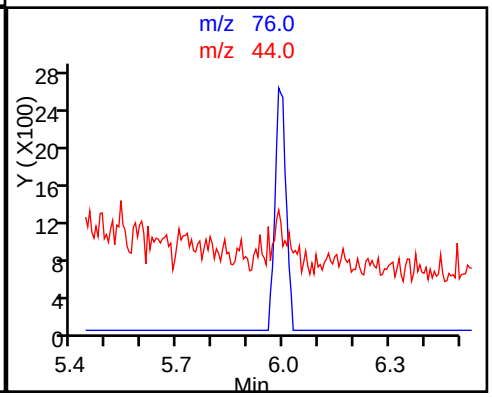












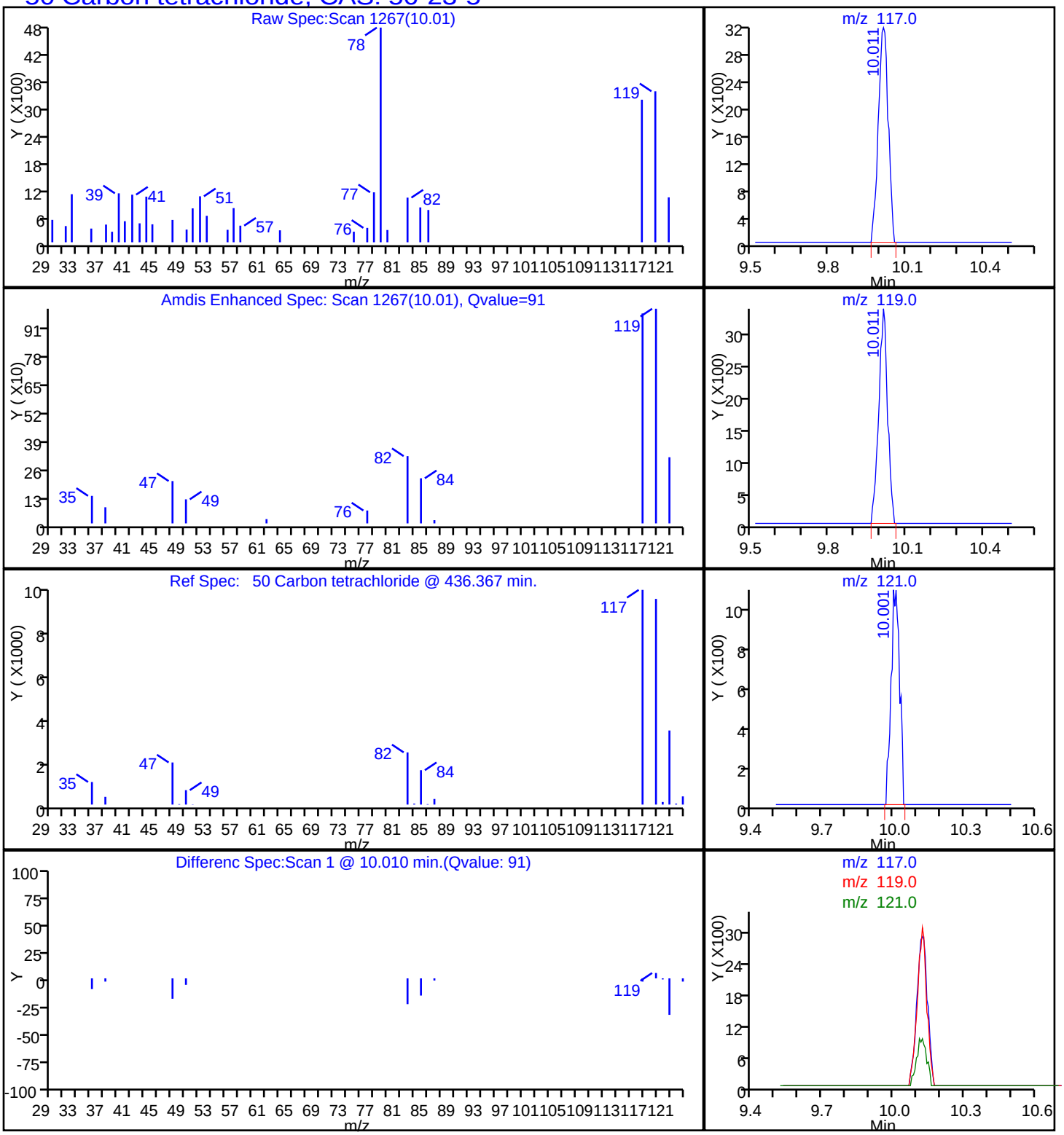
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



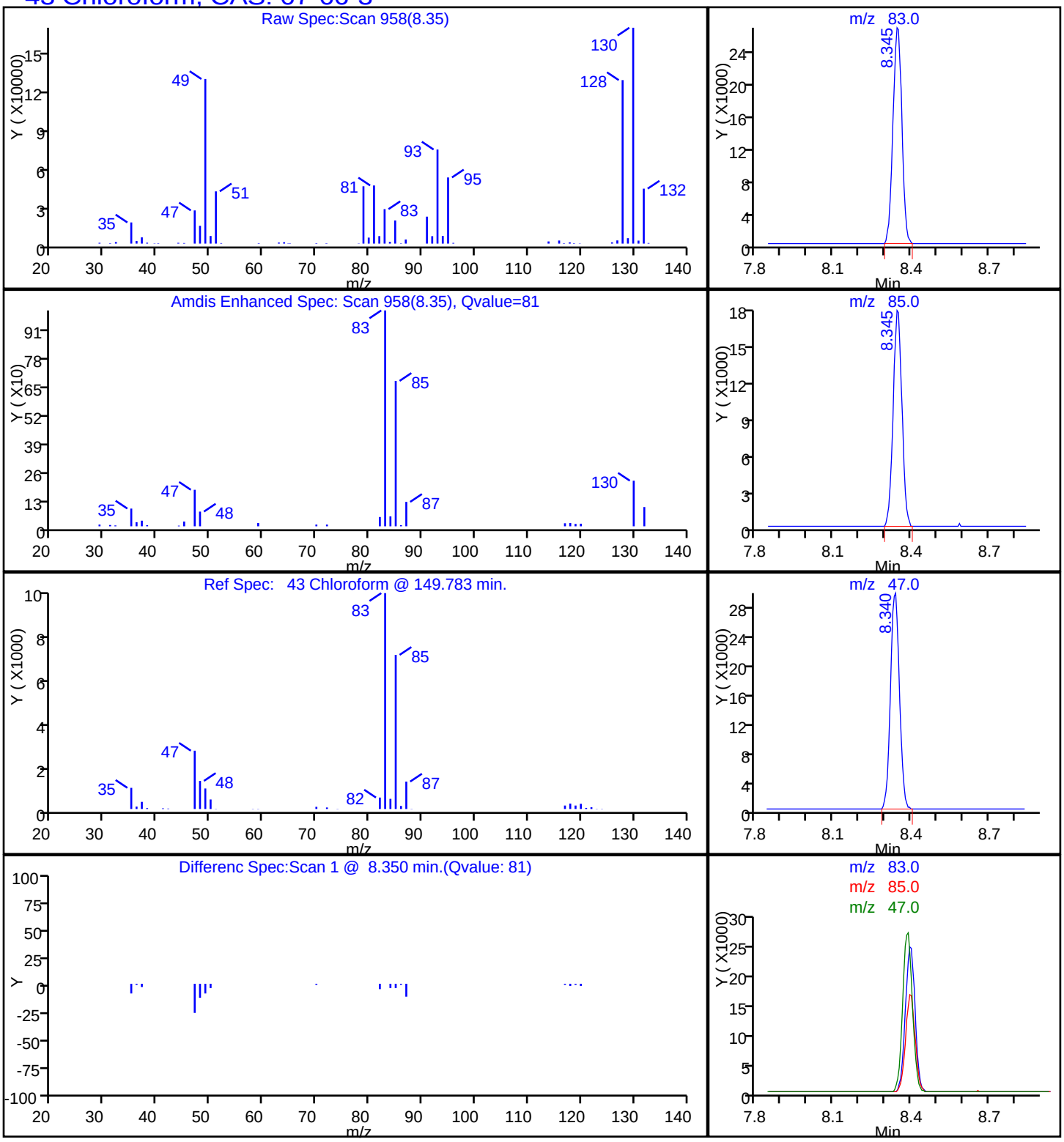
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

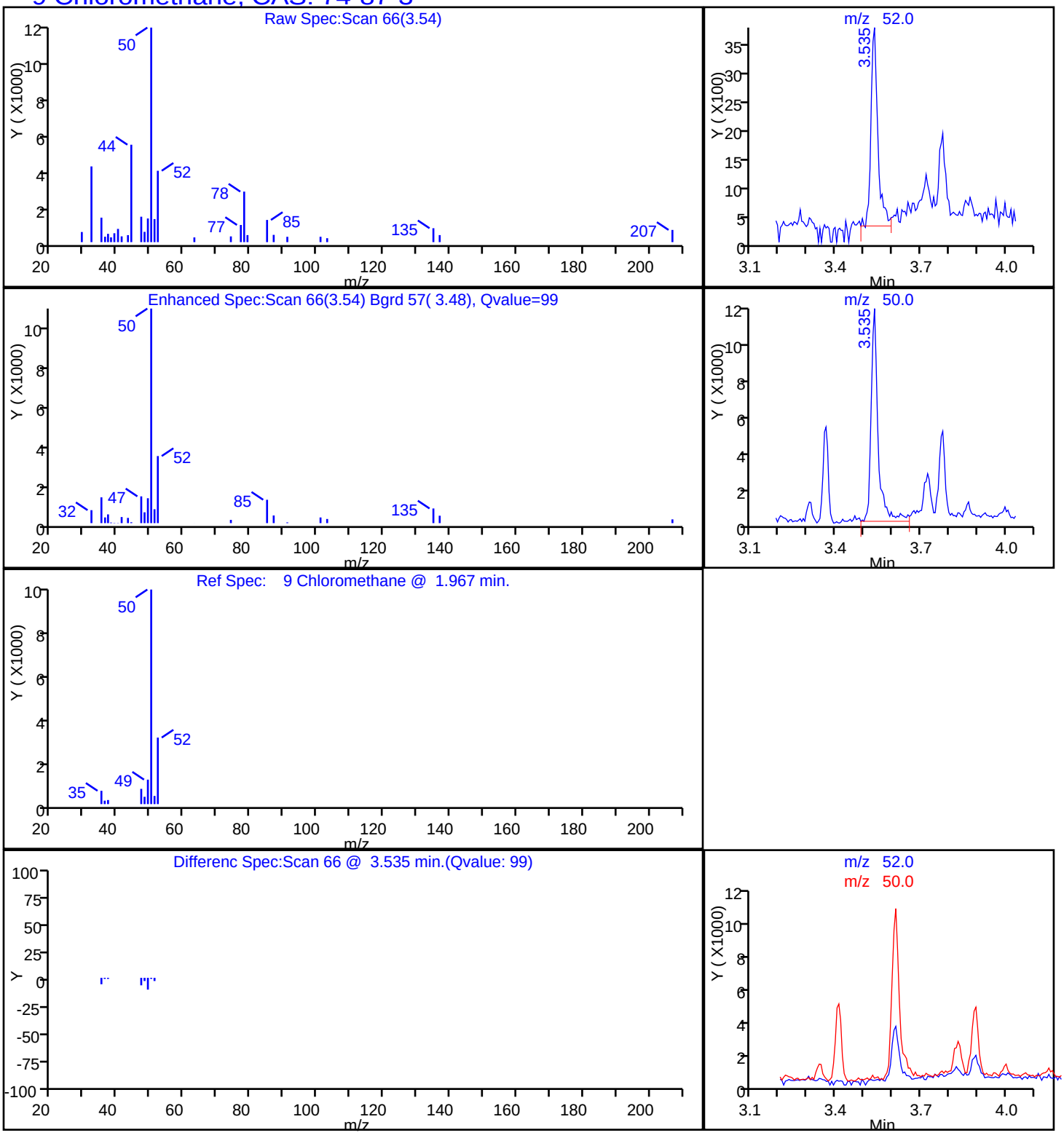
43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D				
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



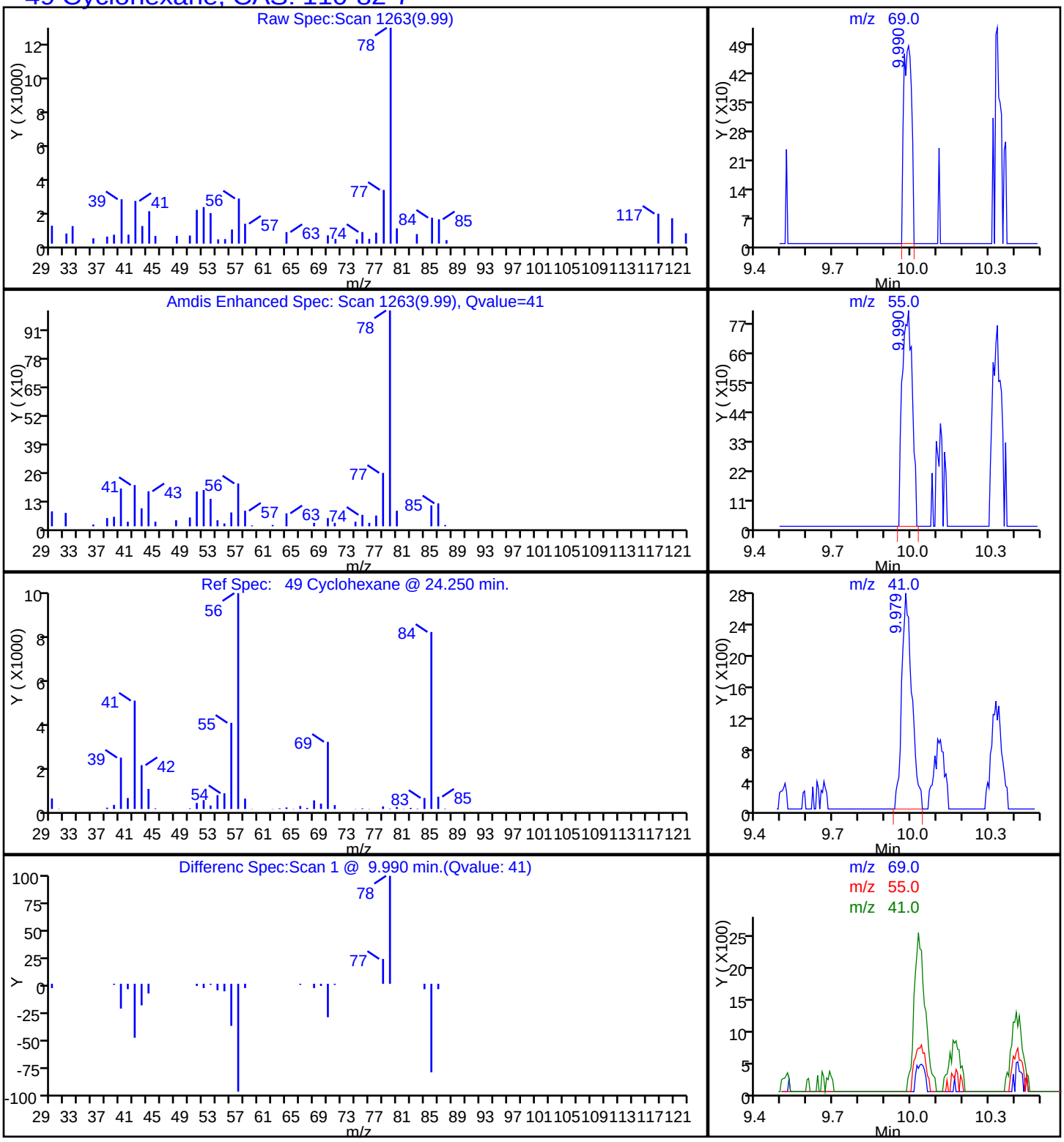
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



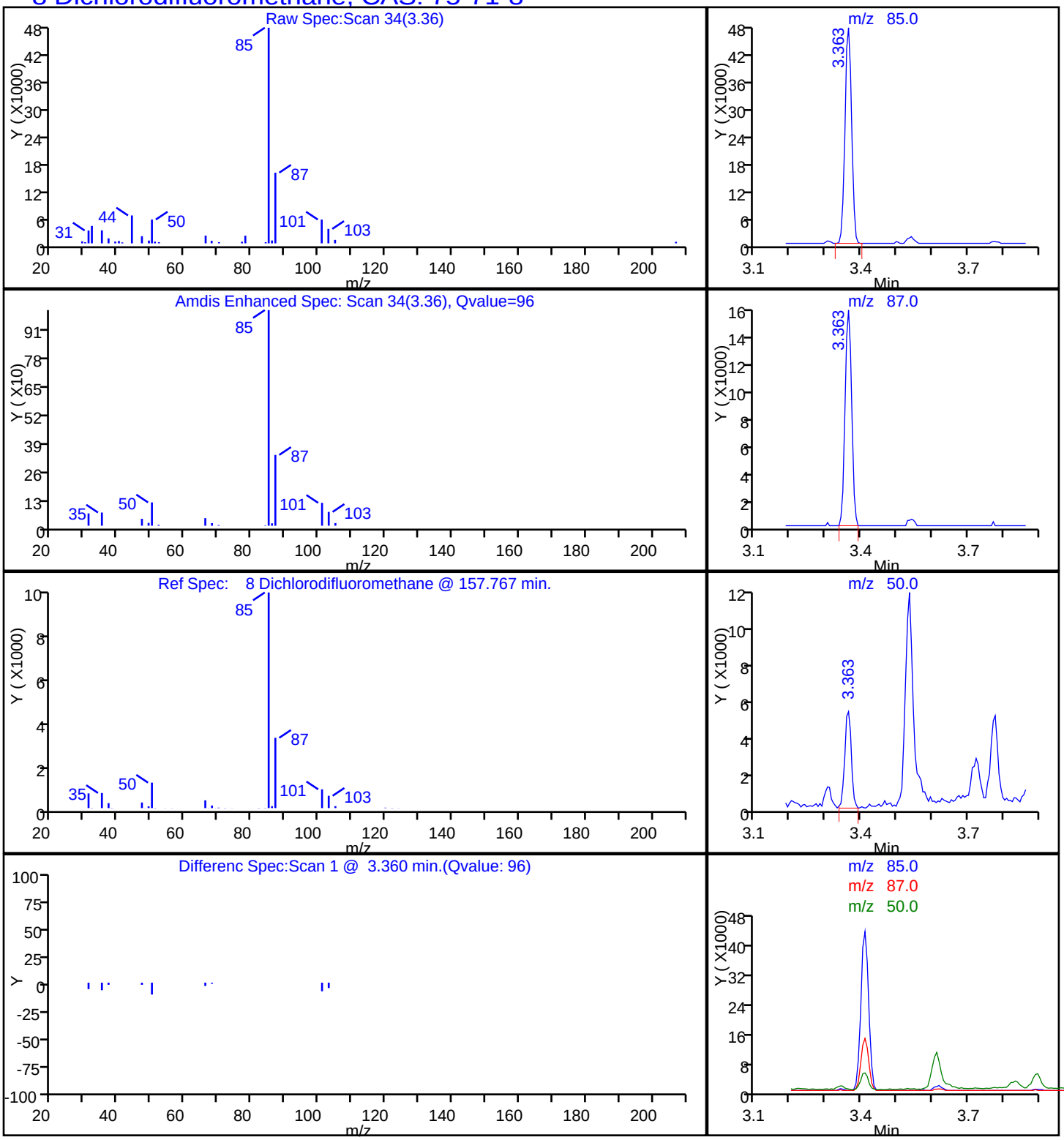
Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



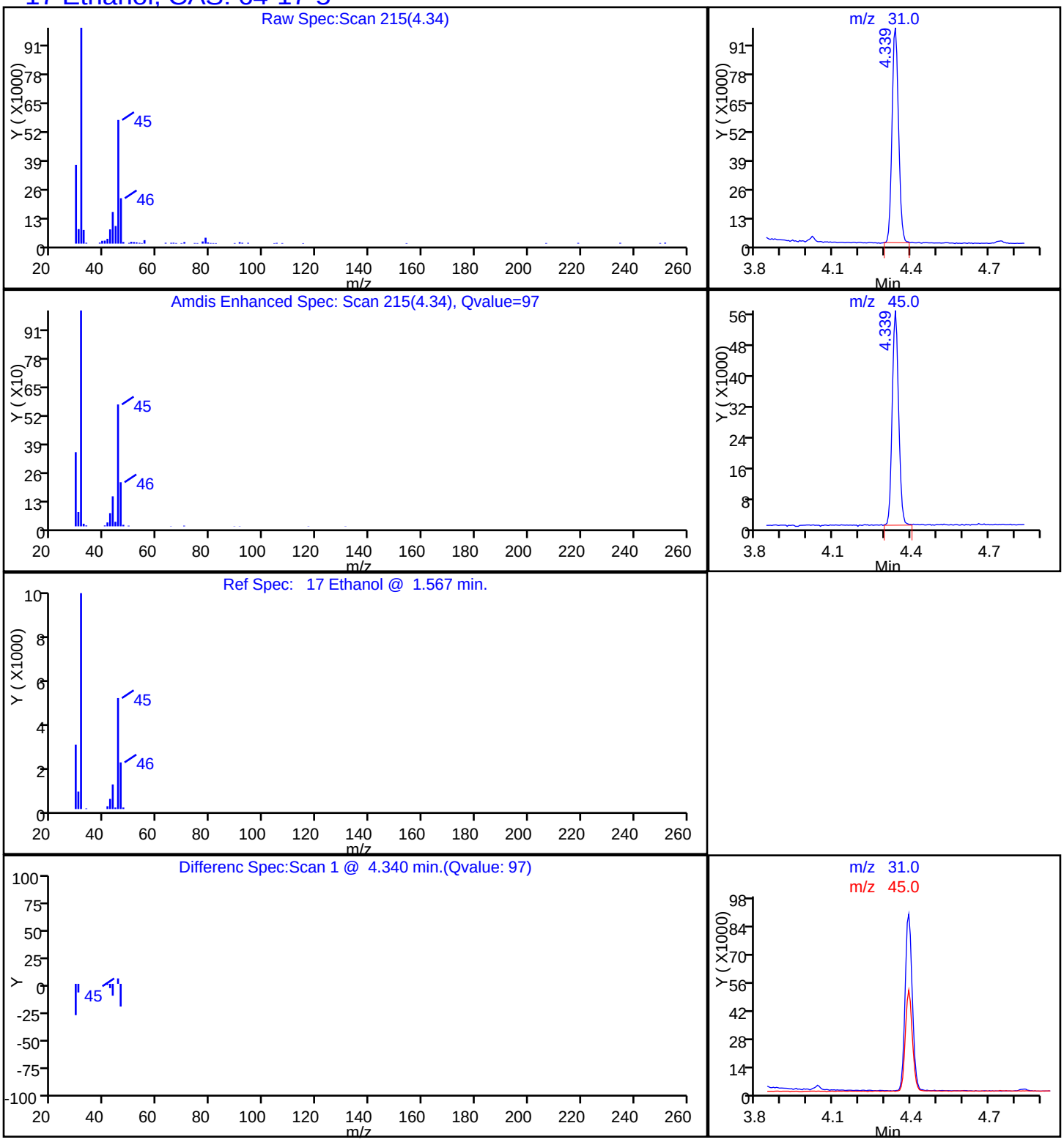
Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



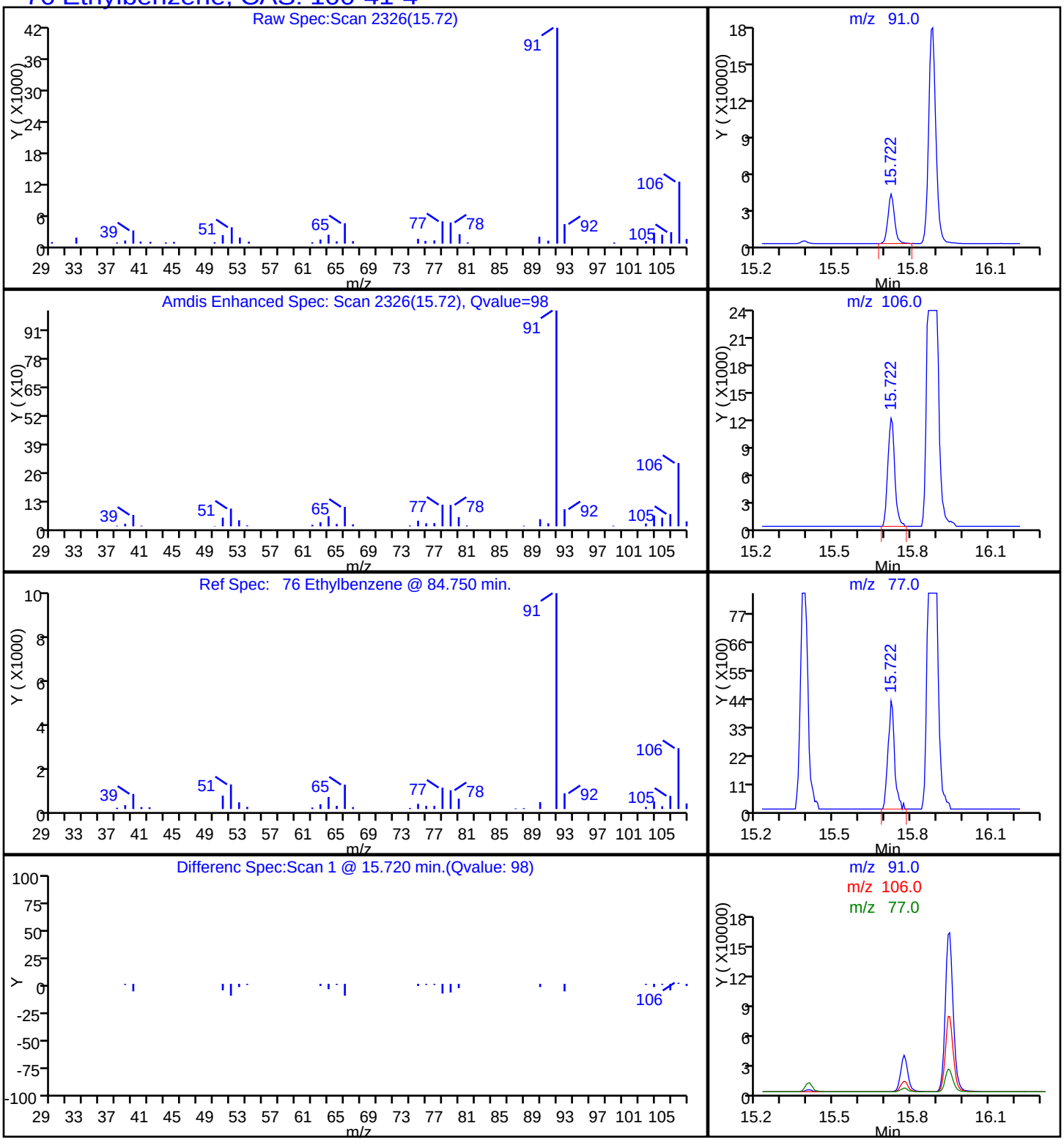
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



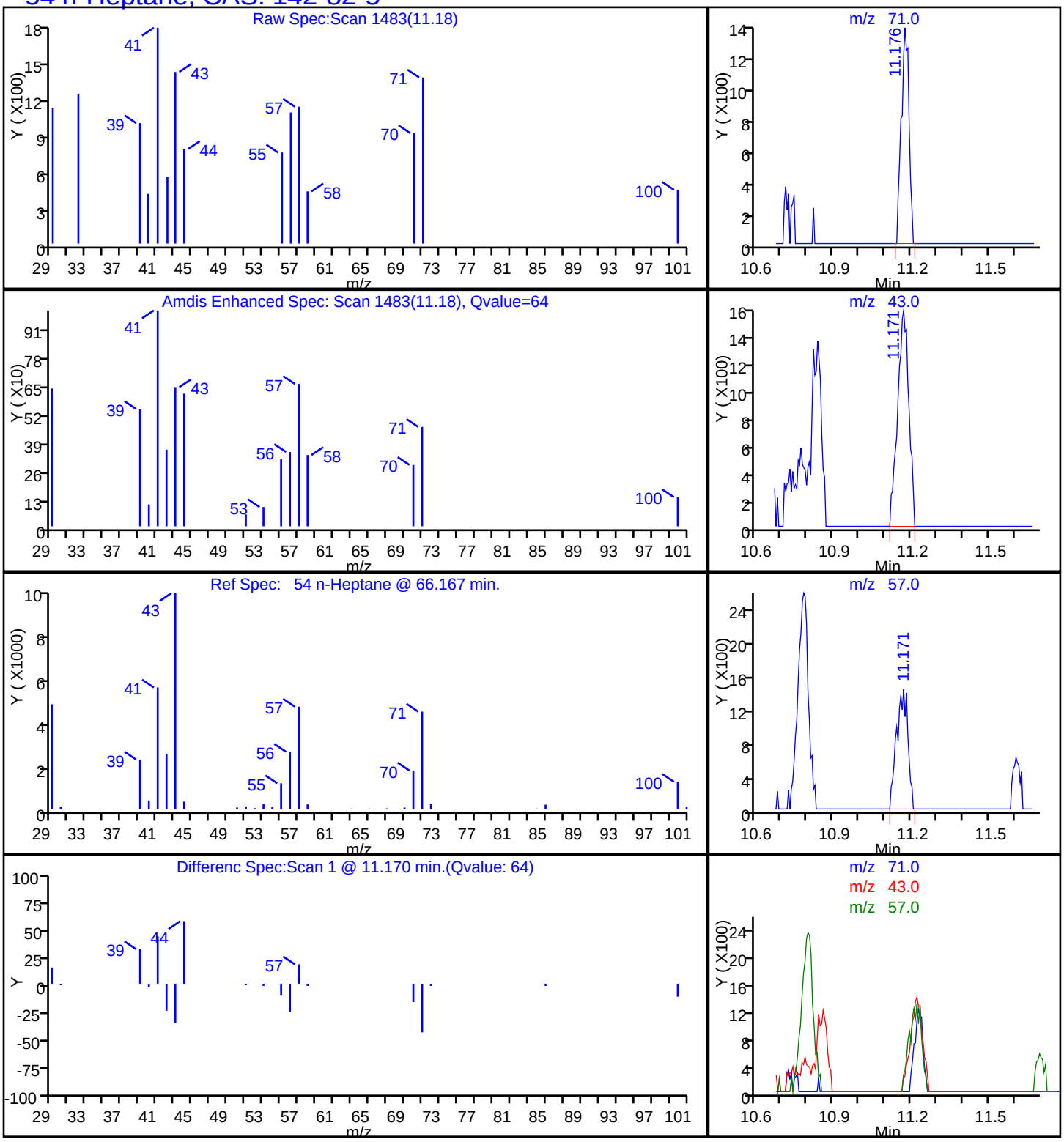
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



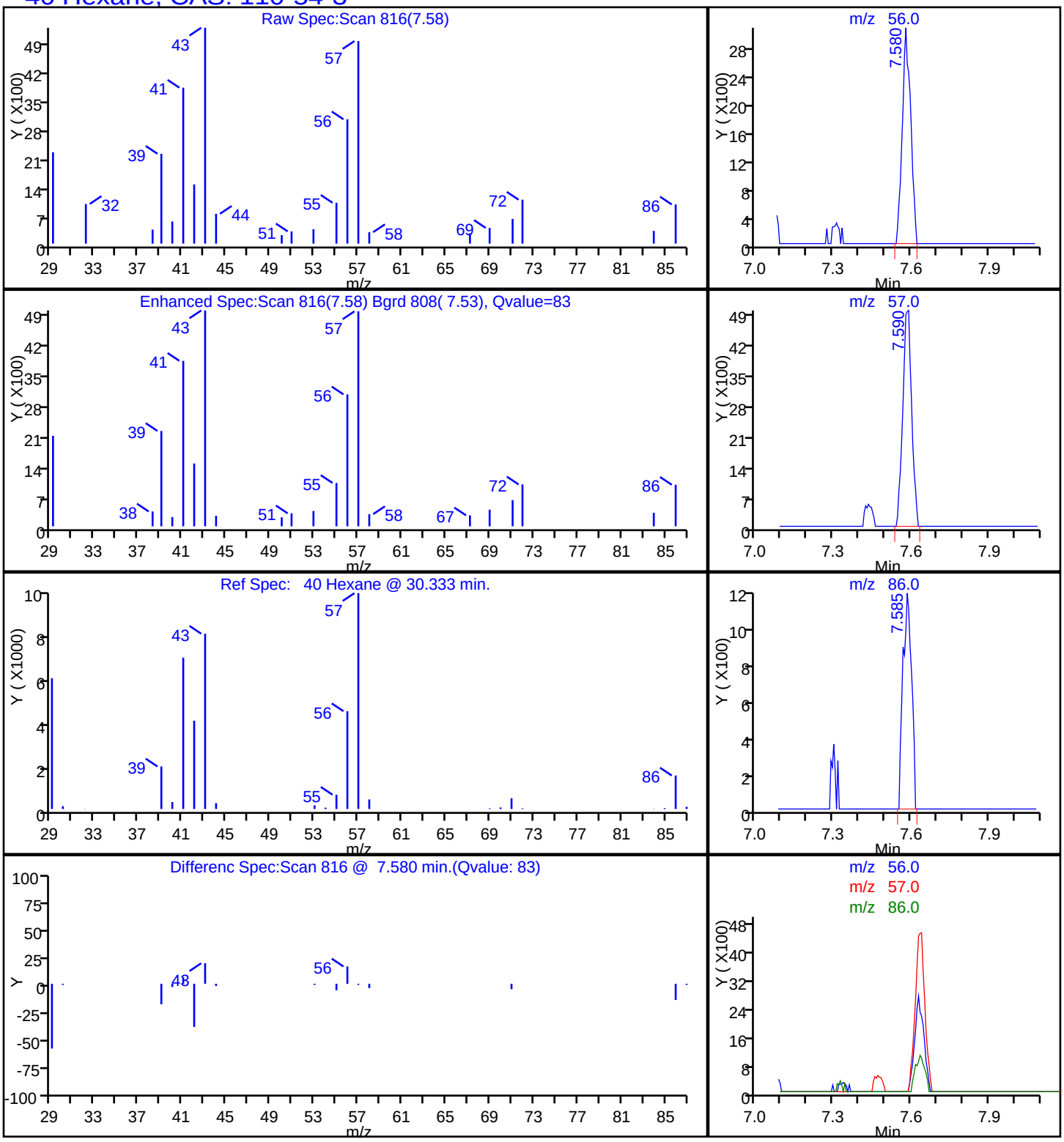
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

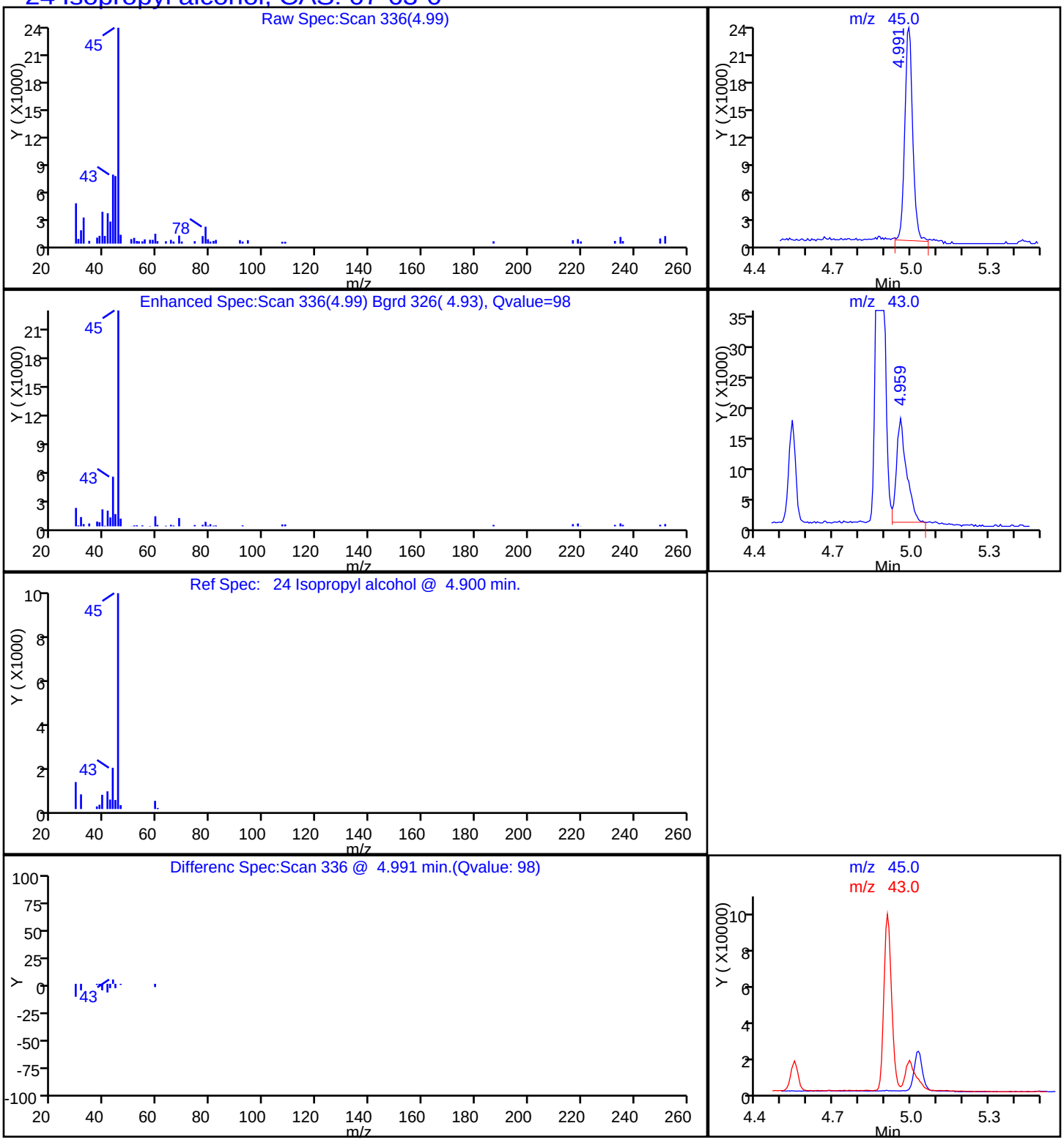
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



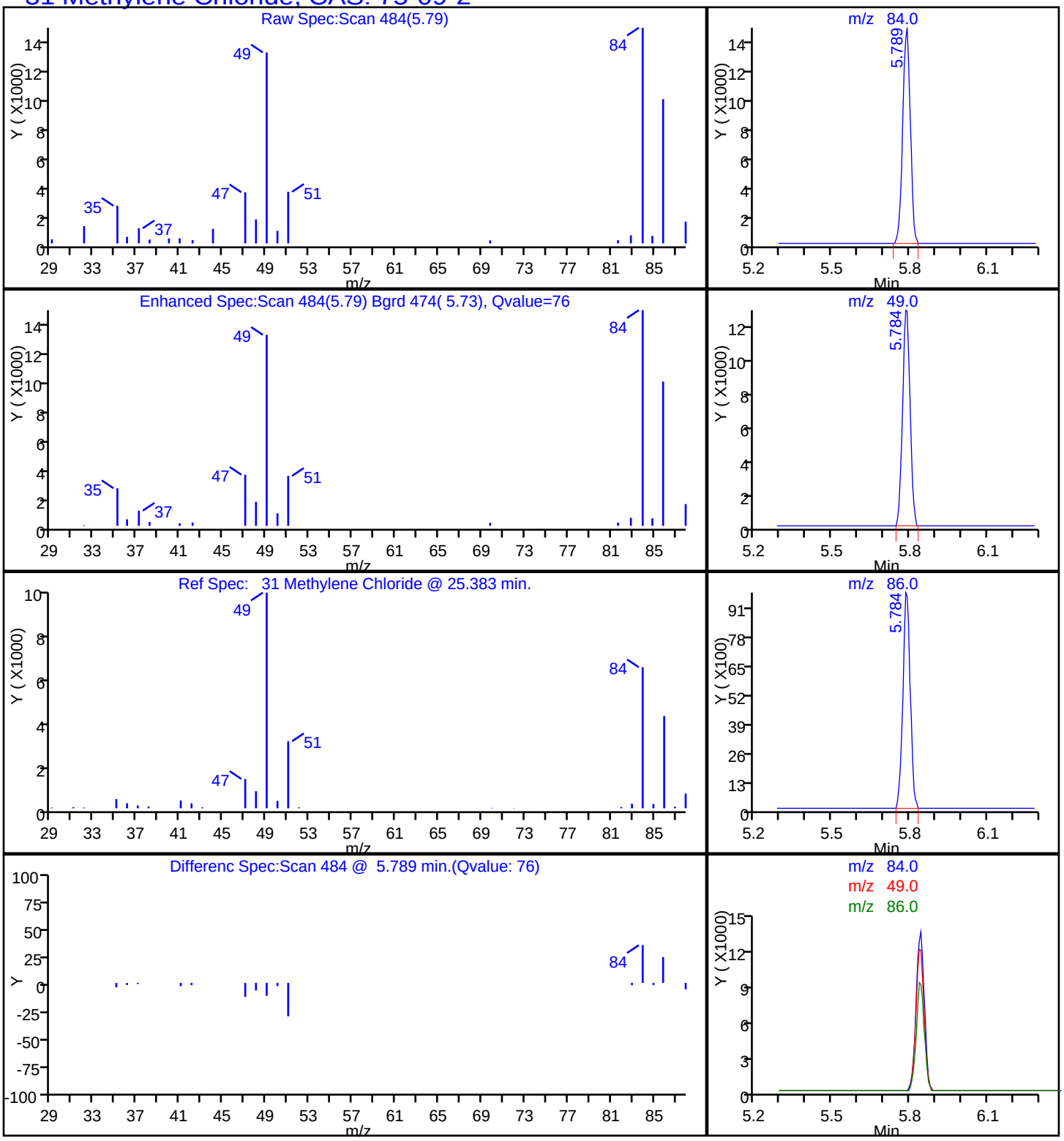
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

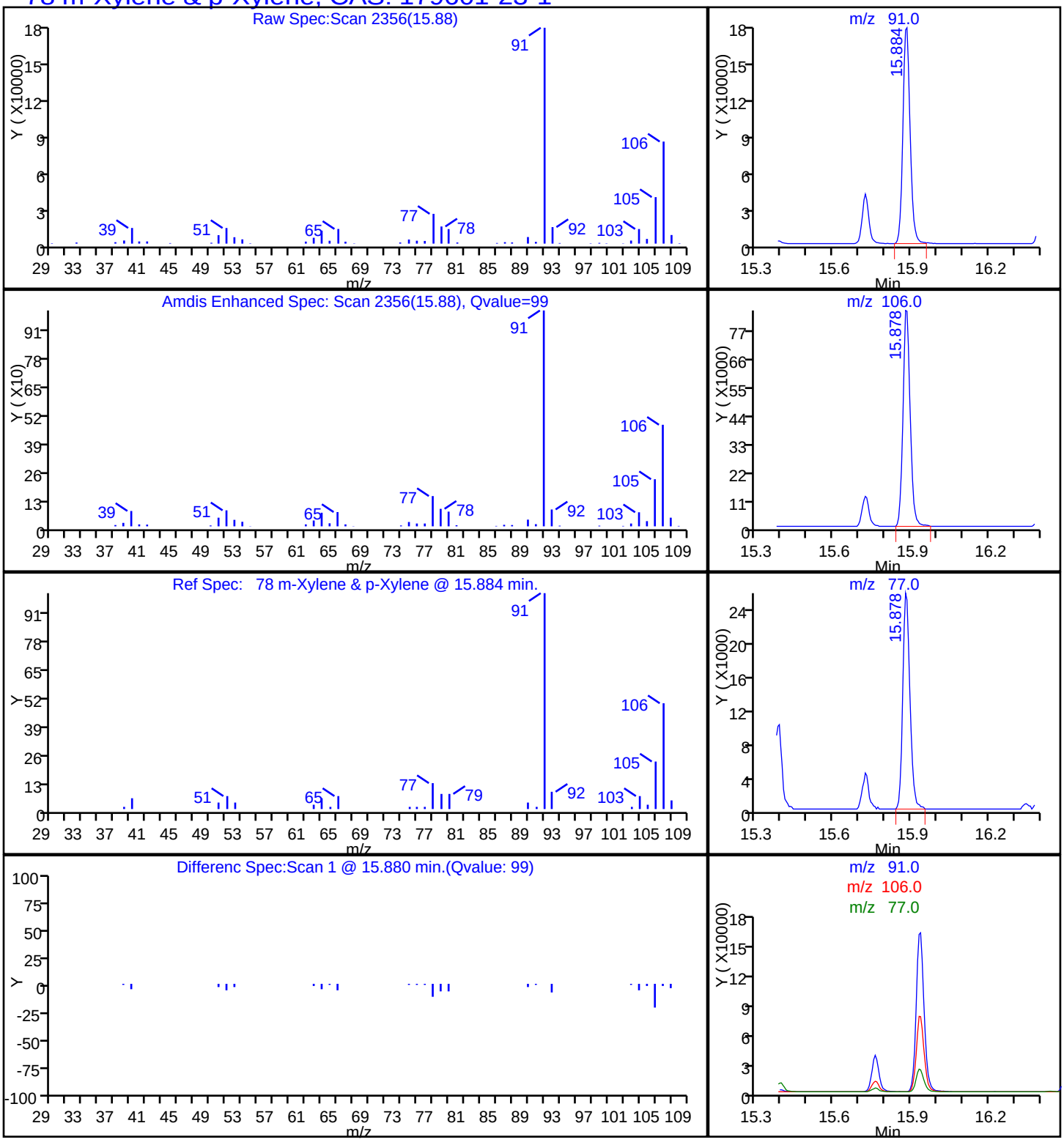


Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D				
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



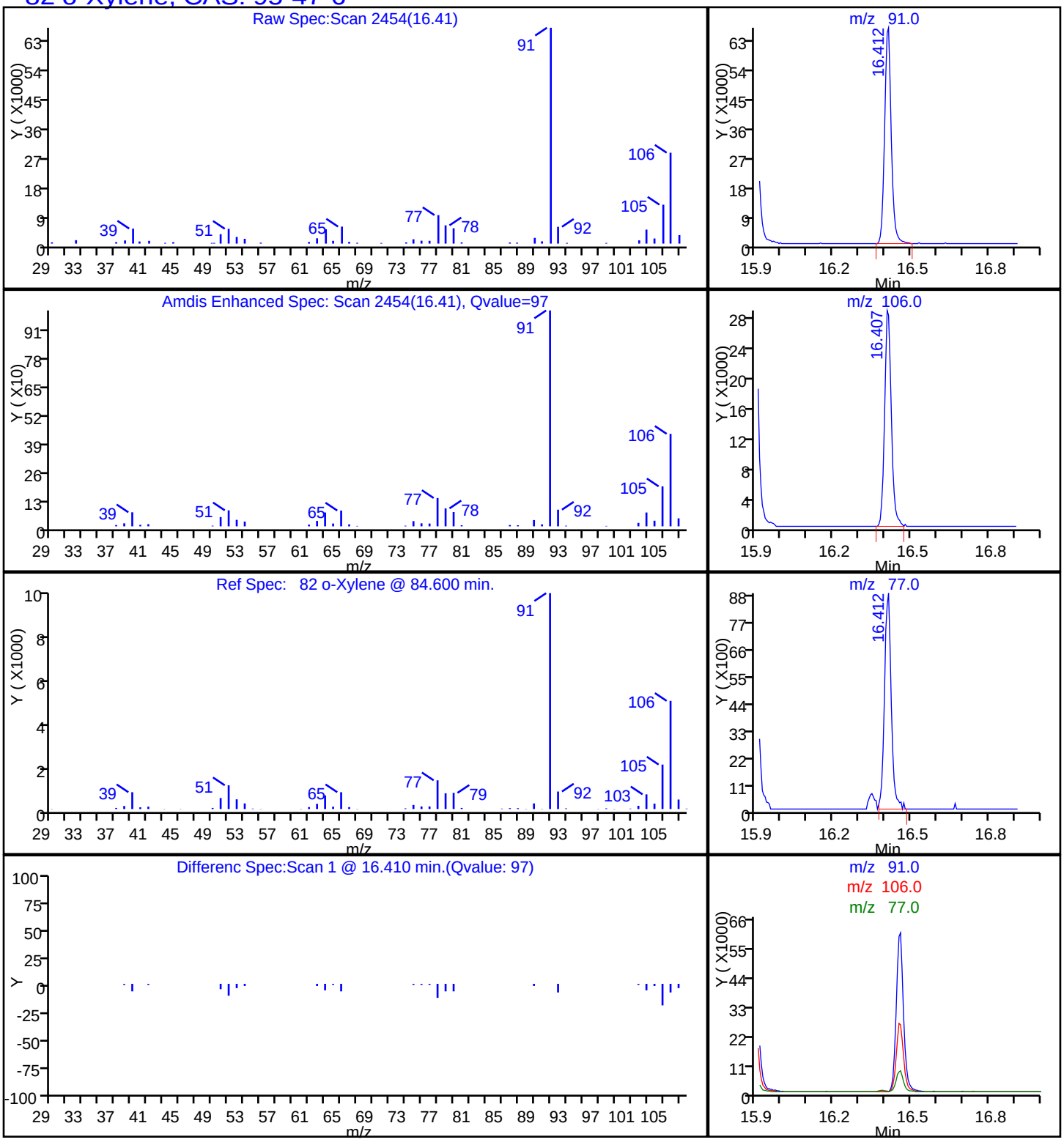
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

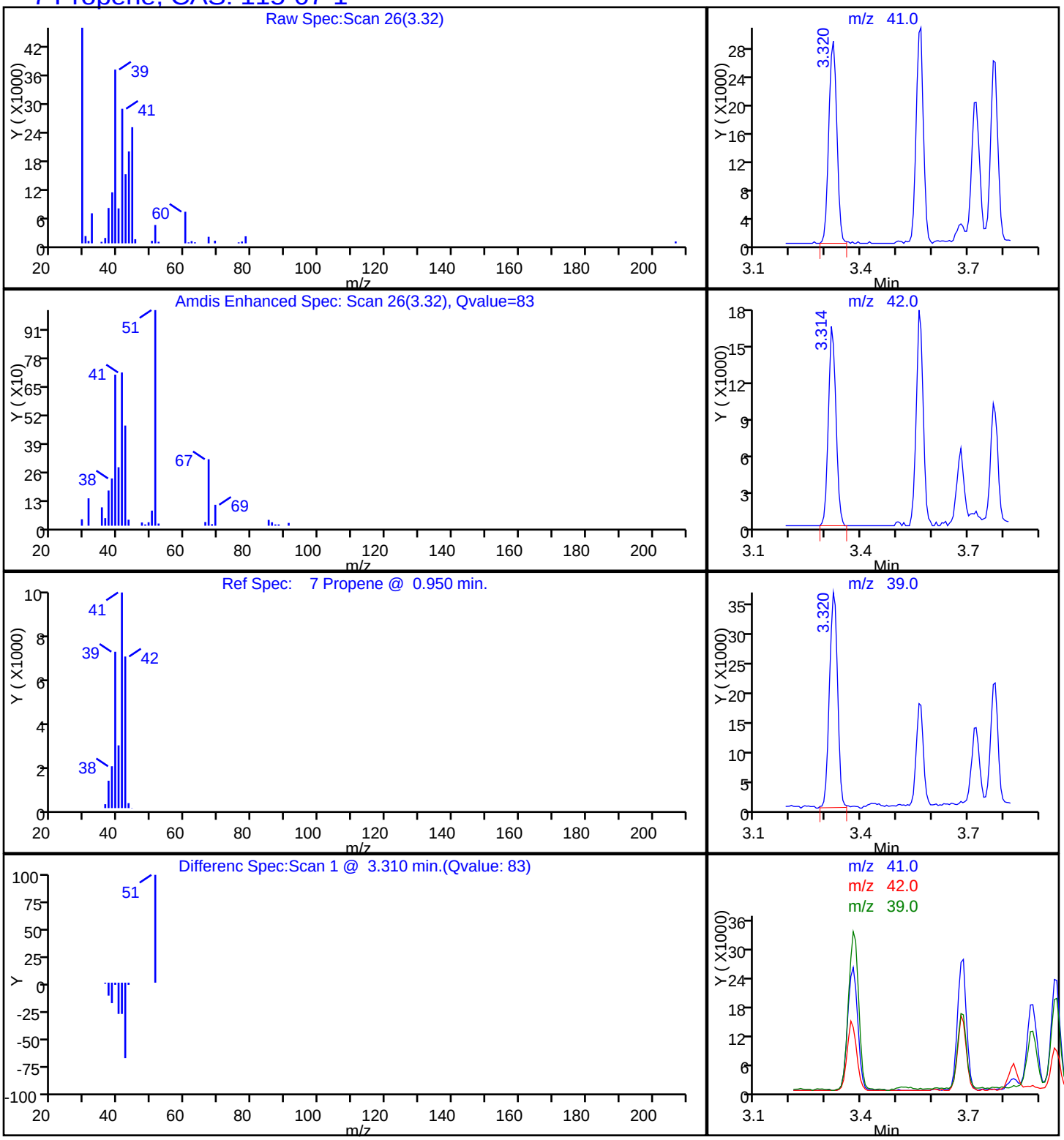
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



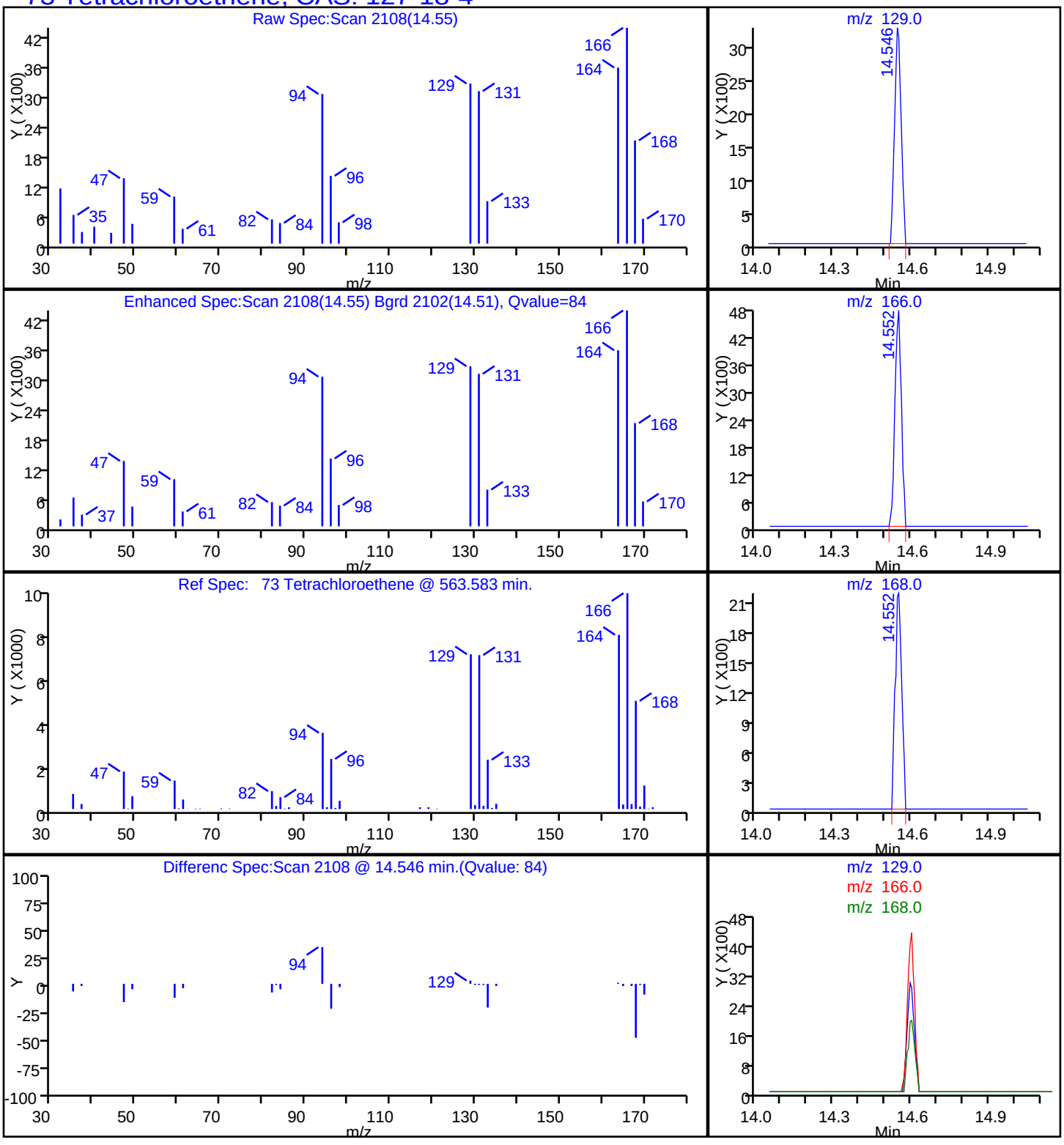
Report Date: 21-Mar-2014 09:32:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6
Client ID:	PCV-IA2-B15		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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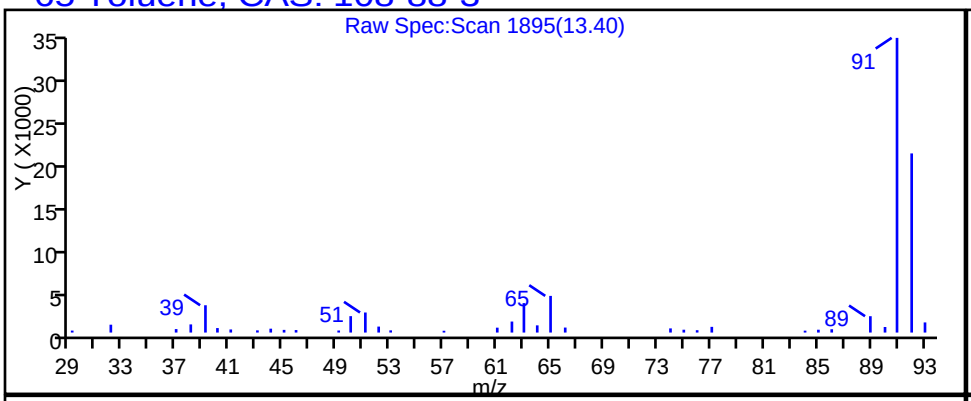
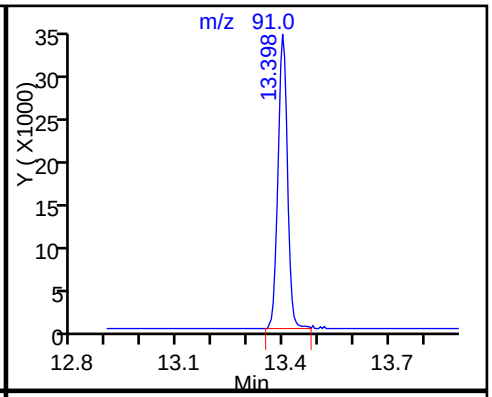
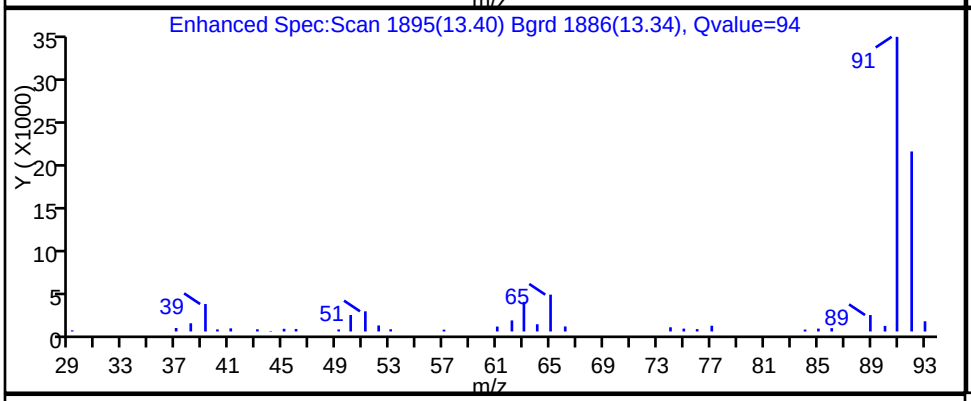
TestAmerica Knoxville

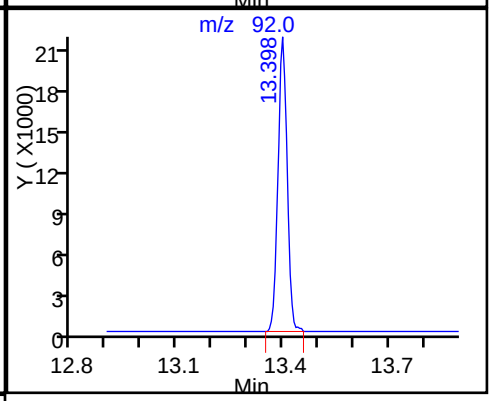
Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D				
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

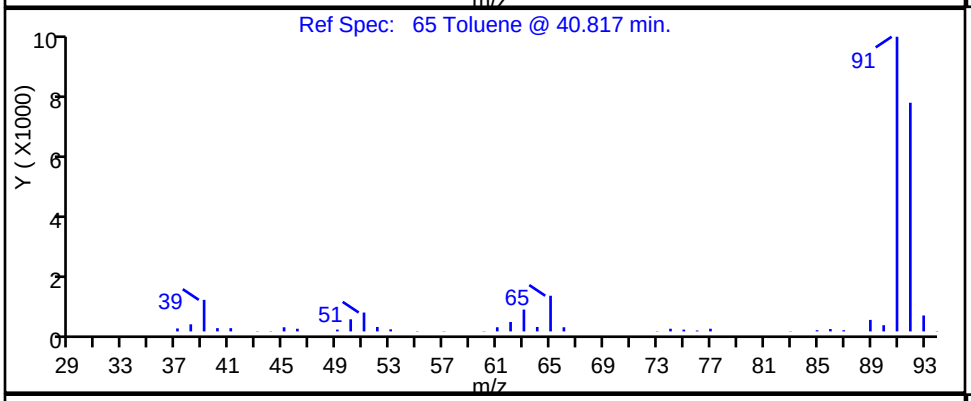
65 Toluene, CAS: 108-88-3

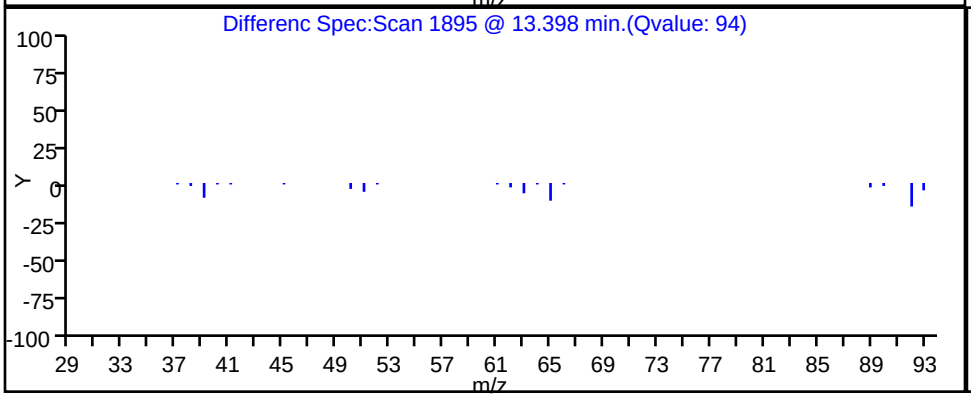


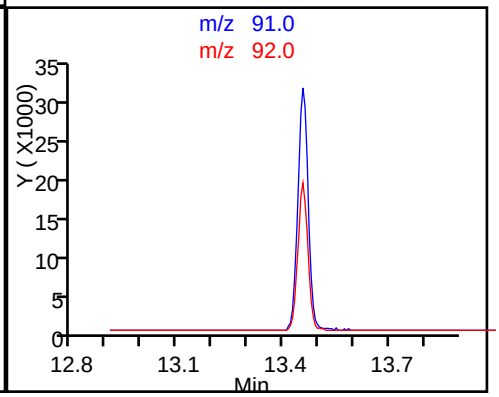












Report Date: 21-Mar-2014 09:32:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D

Injection Date: 20-Mar-2014 18:46:30 Instrument ID: ME

Lims ID: 140-1060-A-6 Lab Sample ID: 140-1060-6

Client ID: PCV-IA2-B15

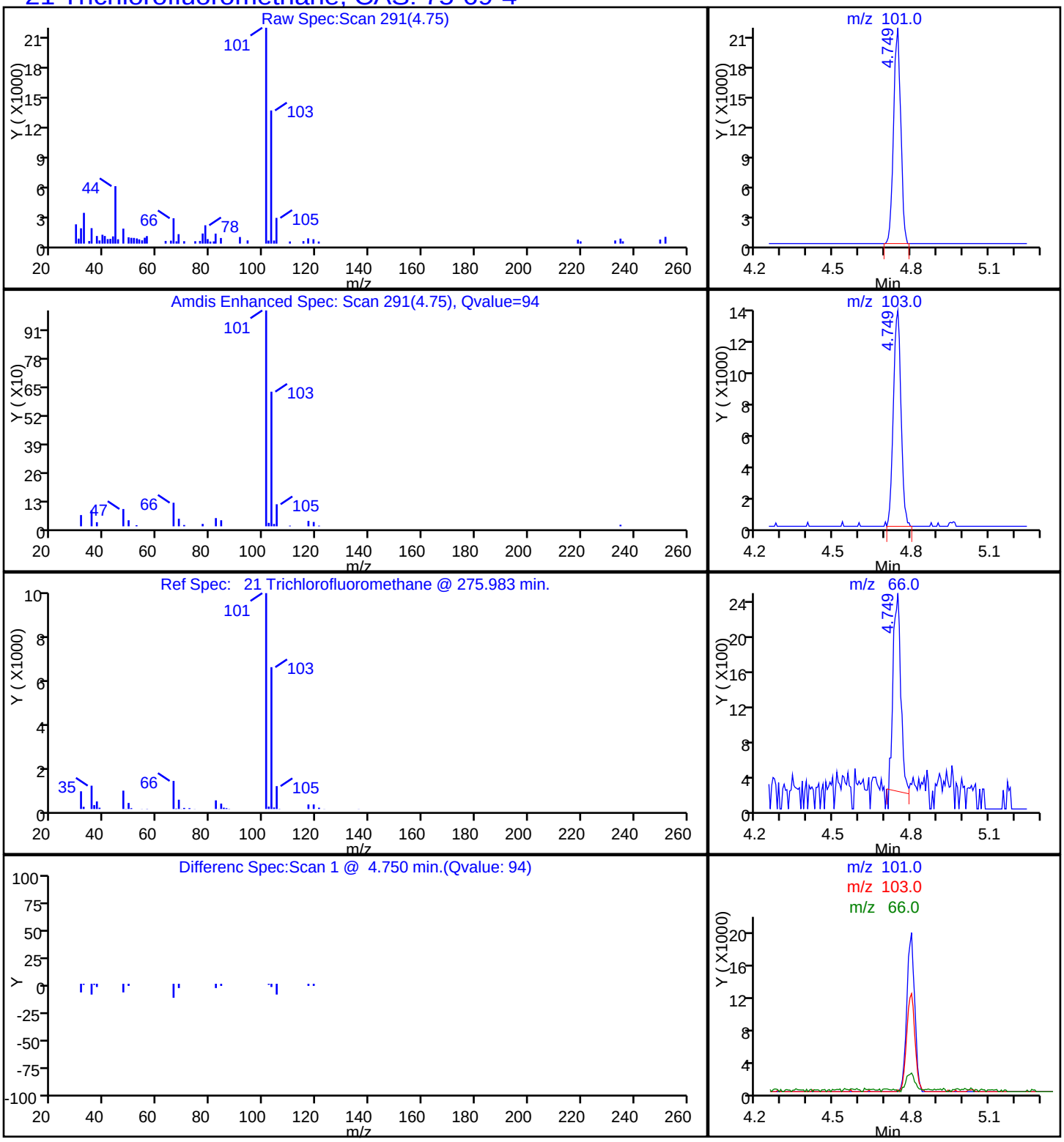
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

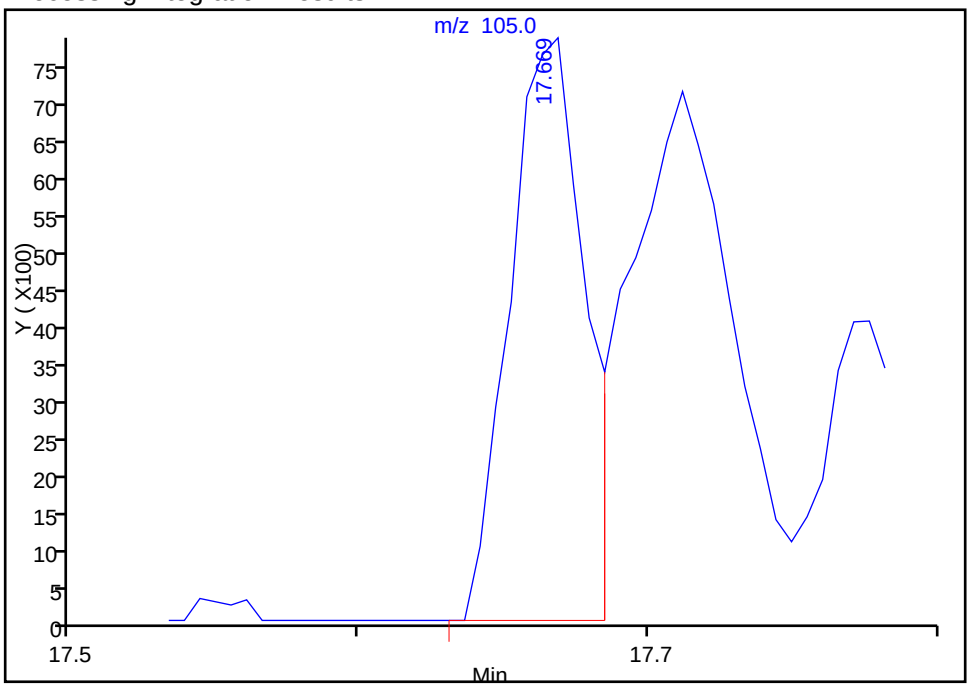
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P104.D				
Injection Date:	20-Mar-2014 18:46:30	Instrument ID:	ME		
Lims ID:	140-1060-A-6	Lab Sample ID:	140-1060-6		
Client ID:	PCV-IA2-B15				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

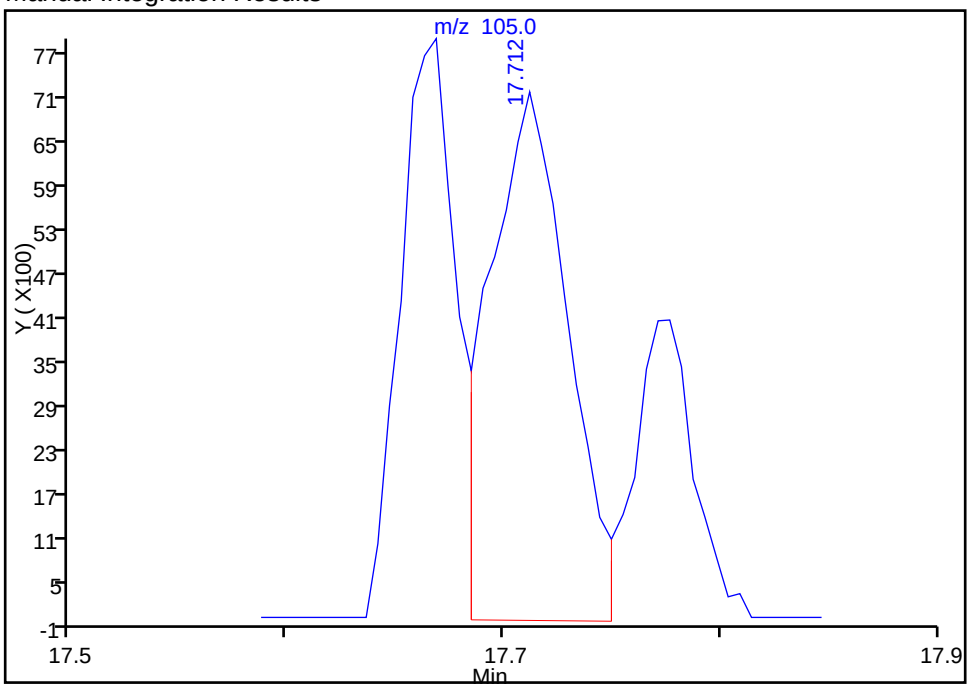
Processing Integration Results

RT: 17.67
Response: 14254
Amount: 0.026341



Manual Integration Results

RT: 17.71
Response: 18351
Amount: 0.033912



Reviewer: tajh, 21-Mar-2014 09:32:54
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.076	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.078	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.041	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.81		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.24	J	0.50	0.045
67-64-1	Acetone	58.08	2.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.054	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.11	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.29		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.10	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.6	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.43	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.9		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.61		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	0.12	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.065	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.38		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.17	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.98	J	2.0	0.18
67-64-1	Acetone	58.08	6.2	J	12	3.3
71-43-2	Benzene	78.11	0.60	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.21	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.52	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	23		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.3		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.36	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	4.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	8.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	2.7		0.87	0.26
115-07-1	Propene	42.08	1.9	cn	0.86	0.13
100-42-5	Styrene	104.15	0.50	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.44	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B15 Lab Sample ID: 140-1060-7

Matrix: Air Lab File ID: EC20P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:20

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D
Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7
Client ID: PCV-IA3-B15
Sample Type: Client
Inject. Date: 20-Mar-2014 19:31:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-7
Misc. Info.: E032014,TO155,,140-0000533-009
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:32:54 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:33:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	319188	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1561735	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1327746	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1111921	3.82	
7 Propene	41	3.319	3.314	0.005	87	35514	0.4423	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	96	59730	0.1692	
9 Chloromethane	52	3.535	3.530	0.005	99	6486	0.2301	
13 Butadiene	54	3.772	3.772	0.0	28	2342	0.0311	
15 Bromomethane	94	4.080	4.080	0.0	71	2552	0.0217	
17 Ethanol	31	4.328	4.317	0.011	97	157755	4.94	
19 2-Methylbutane	43	4.538	4.538	0.0	85	36423	0.3258	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	35537	0.1003	
23 Acetone	58	4.878	4.883	-0.005	99	50383	1.04	
24 Isopropyl alcohol	45	4.980	4.970	0.010	95	80701	0.6484	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.600	5.611	-0.011	64	6171	0.0281	
31 Methylene Chloride	84	5.784	5.789	-0.005	77	15579	0.1708	
40 Hexane	56	7.585	7.585	0.0	76	3496	0.0412	
43 Chloroform	83	8.345	8.356	-0.011	18	11723	0.0429	
48 Benzene	78	9.990	9.995	-0.005	93	23686	0.0754	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	90	8278	0.0274	
53 Isooctane	57	10.777	10.788	-0.011	81	7942	0.0164	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	87	17720	0.0957	
65 Toluene	91	13.398	13.398	0.0	92	54770	0.1540	
73 Tetrachloroethene	129	14.552	14.552	0.0	83	3958	0.0261	
76 Ethylbenzene	91	15.722	15.722	0.0	98	52678	0.1155	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	99	267958	0.7474	
80 Styrene	104	16.347	16.347	0.0	89	11703	0.0472	
82 o-Xylene	91	16.412	16.412	0.0	96	94955	0.2450	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	78	12363	0.0303	

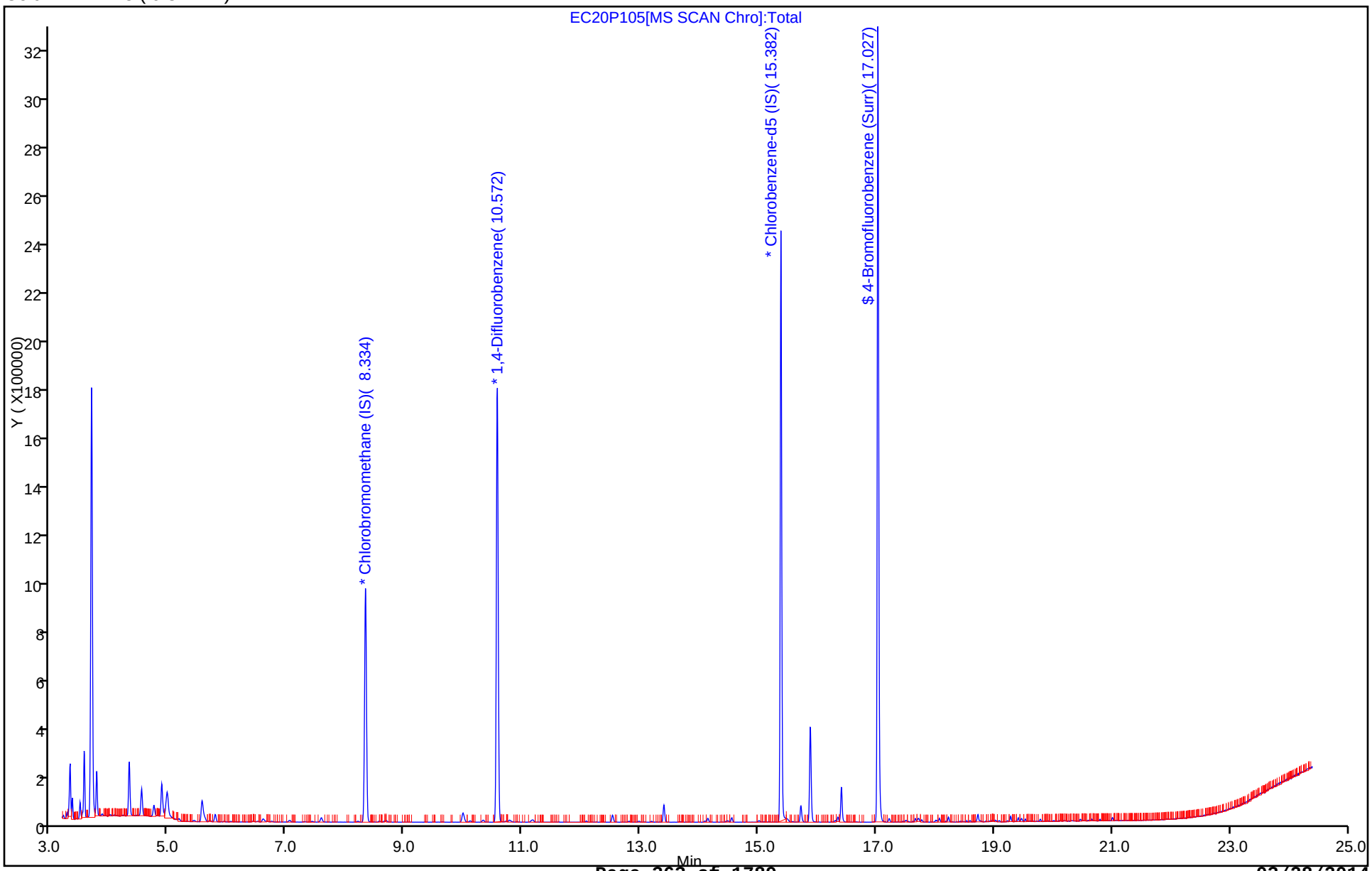
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7	Worklist Smp#:	9
Client ID:	PCV-IA3-B15				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

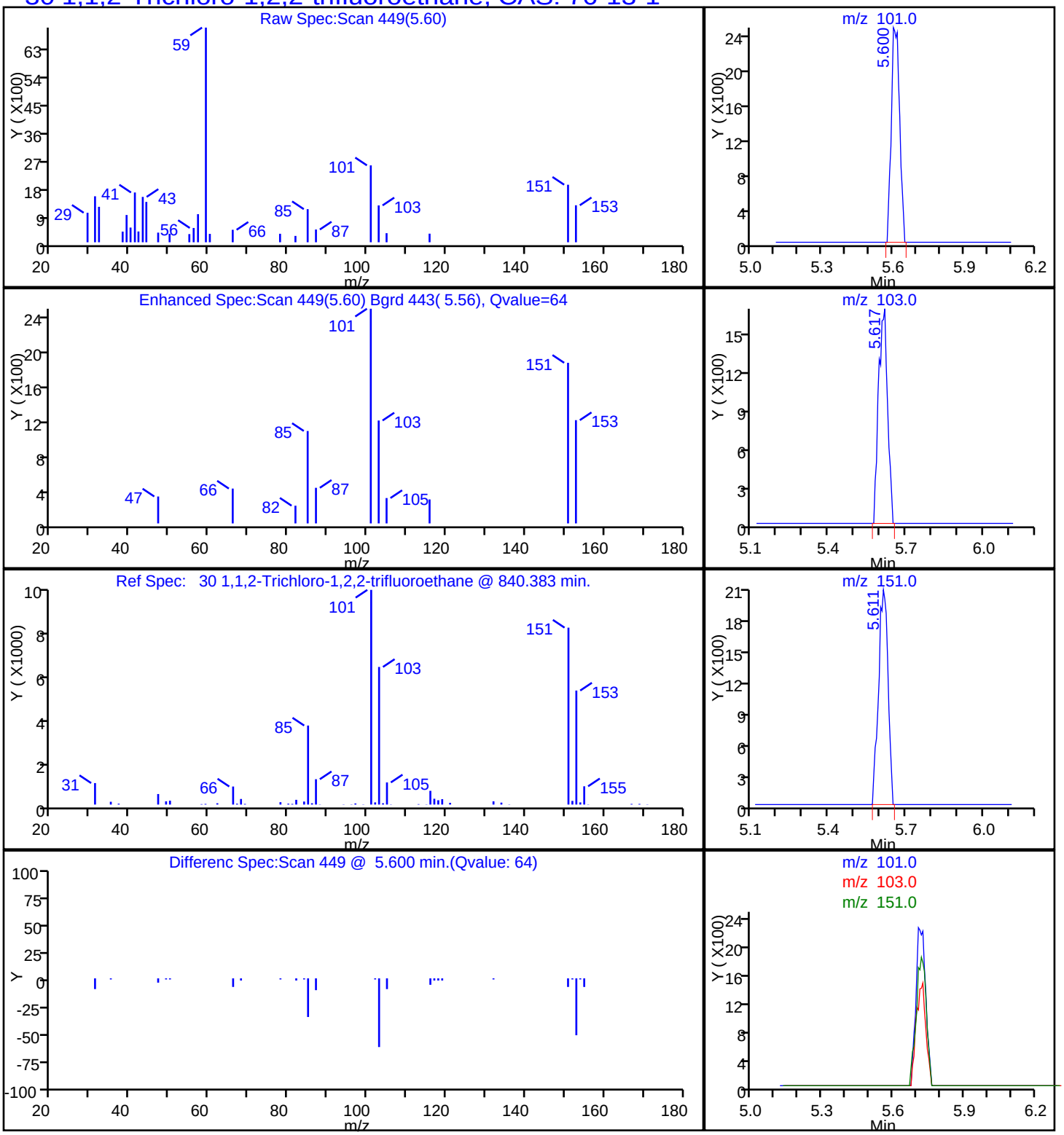
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



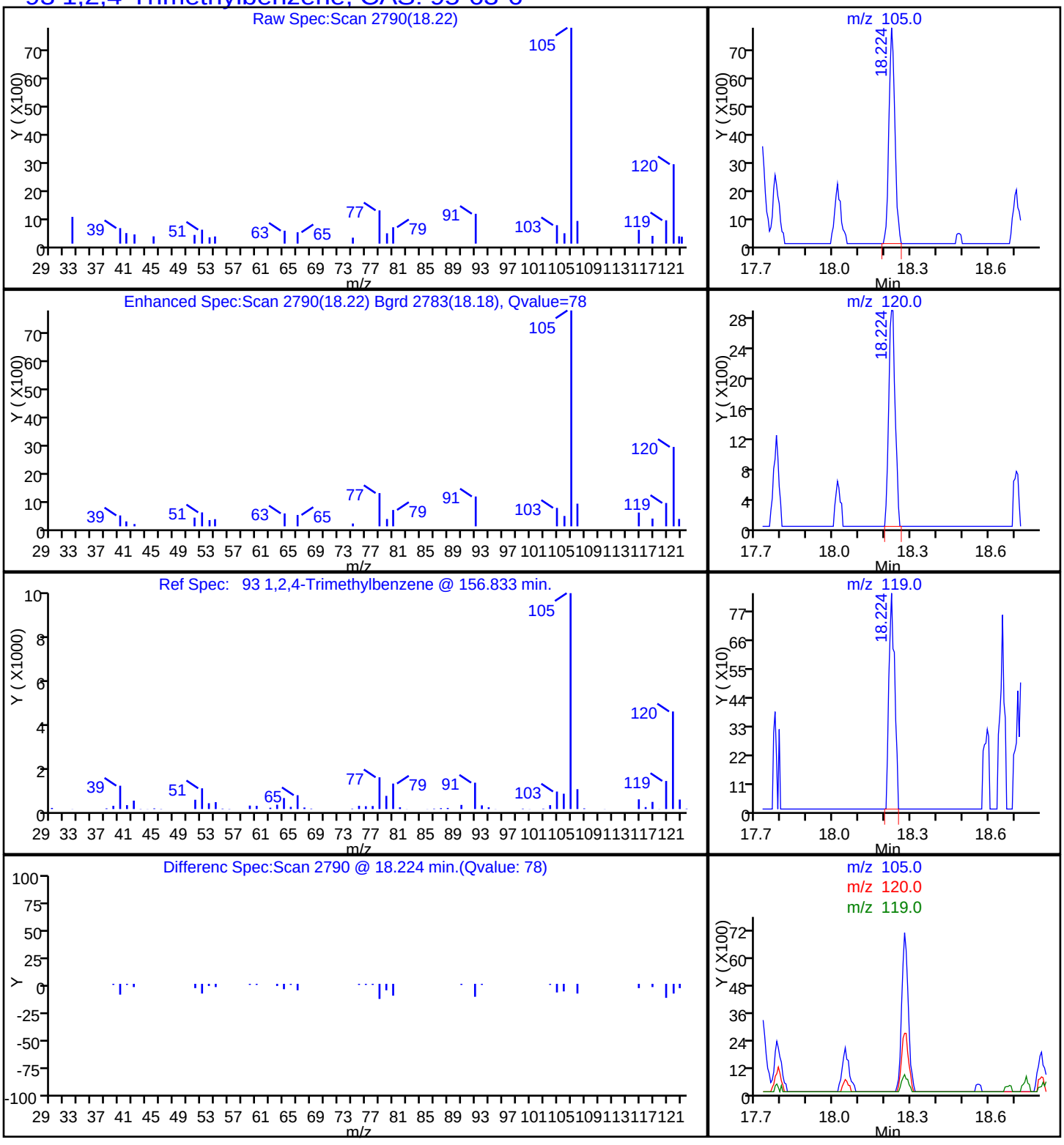
Report Date: 21-Mar-2014 09:33:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



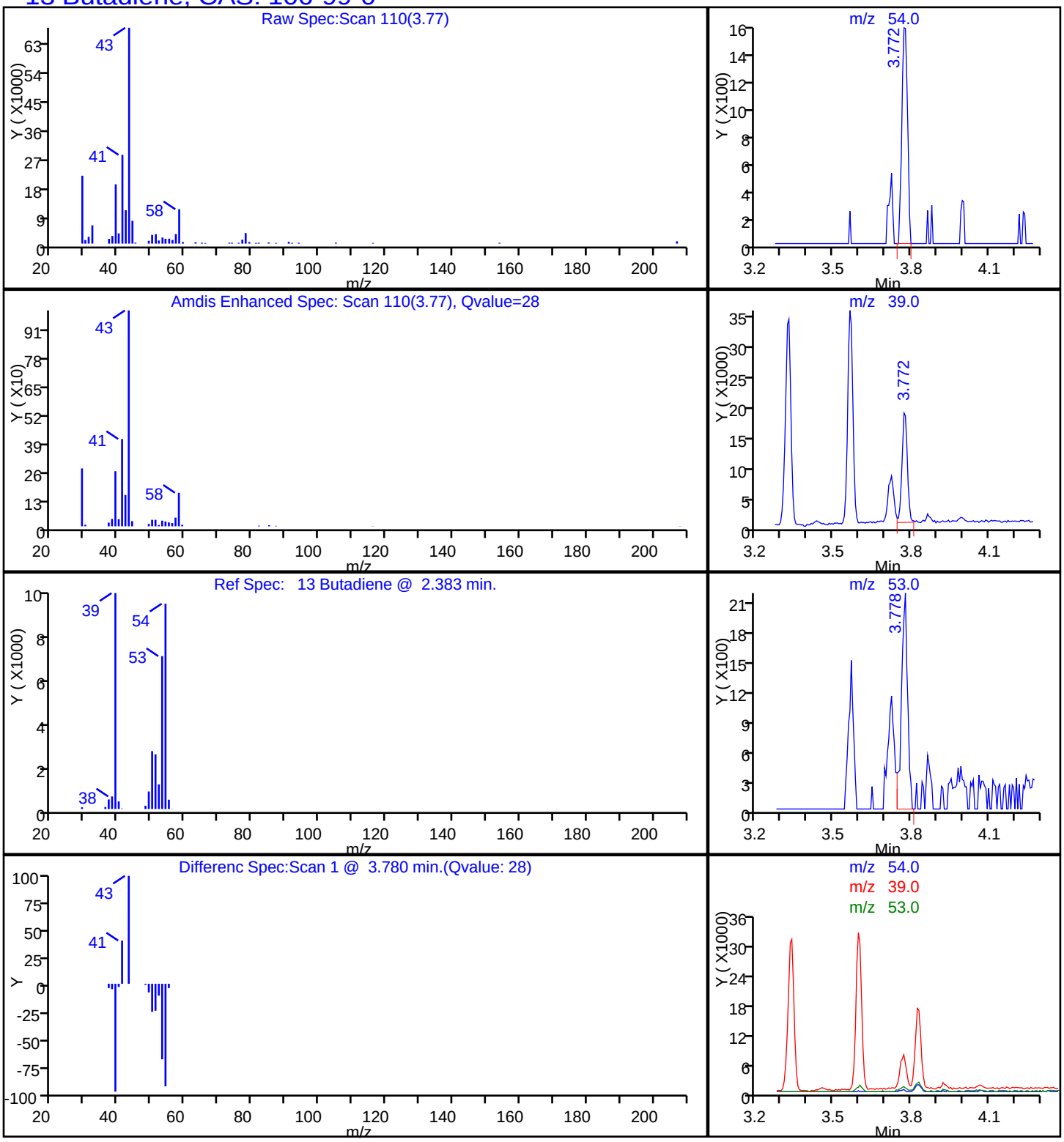
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



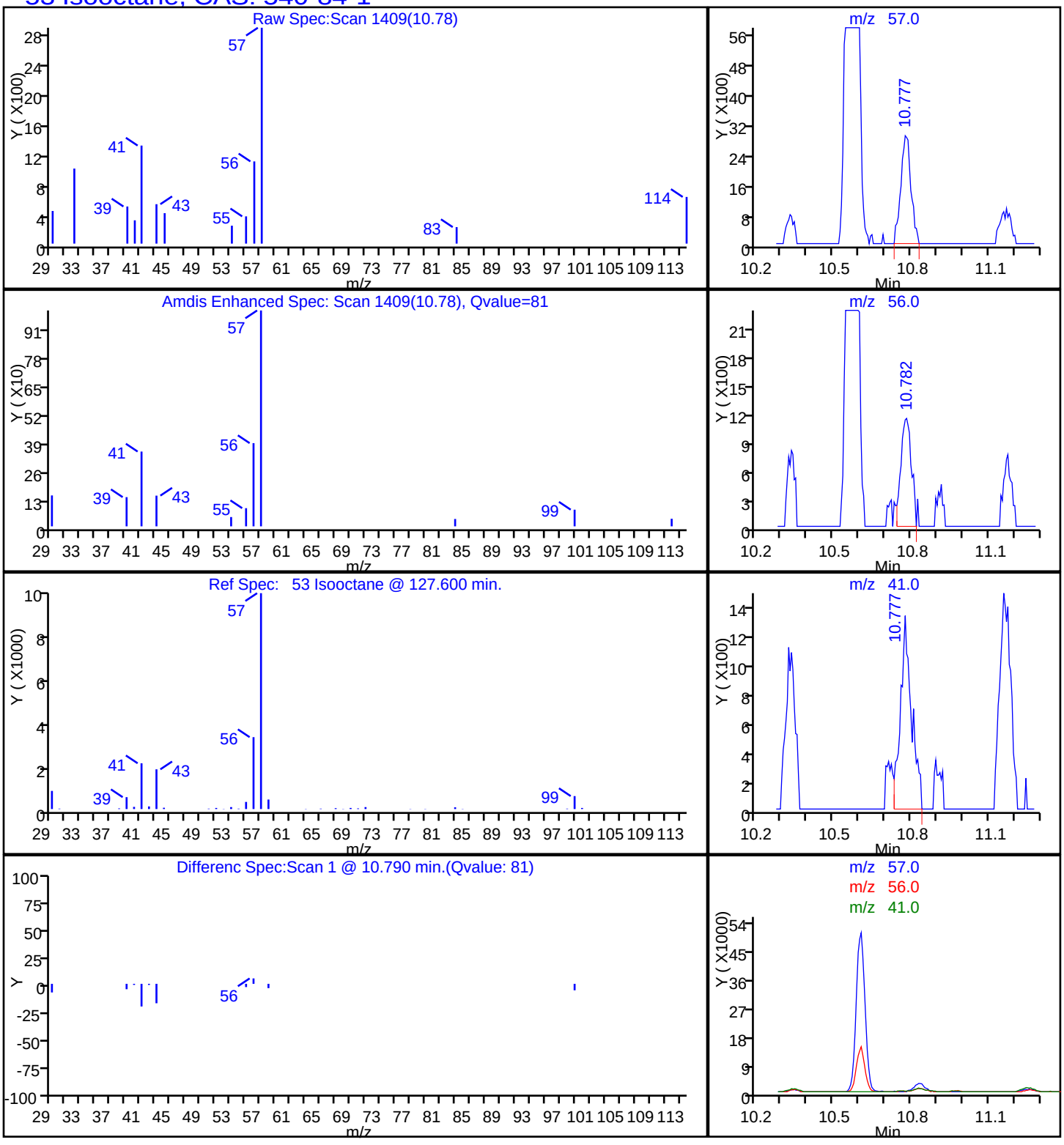
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



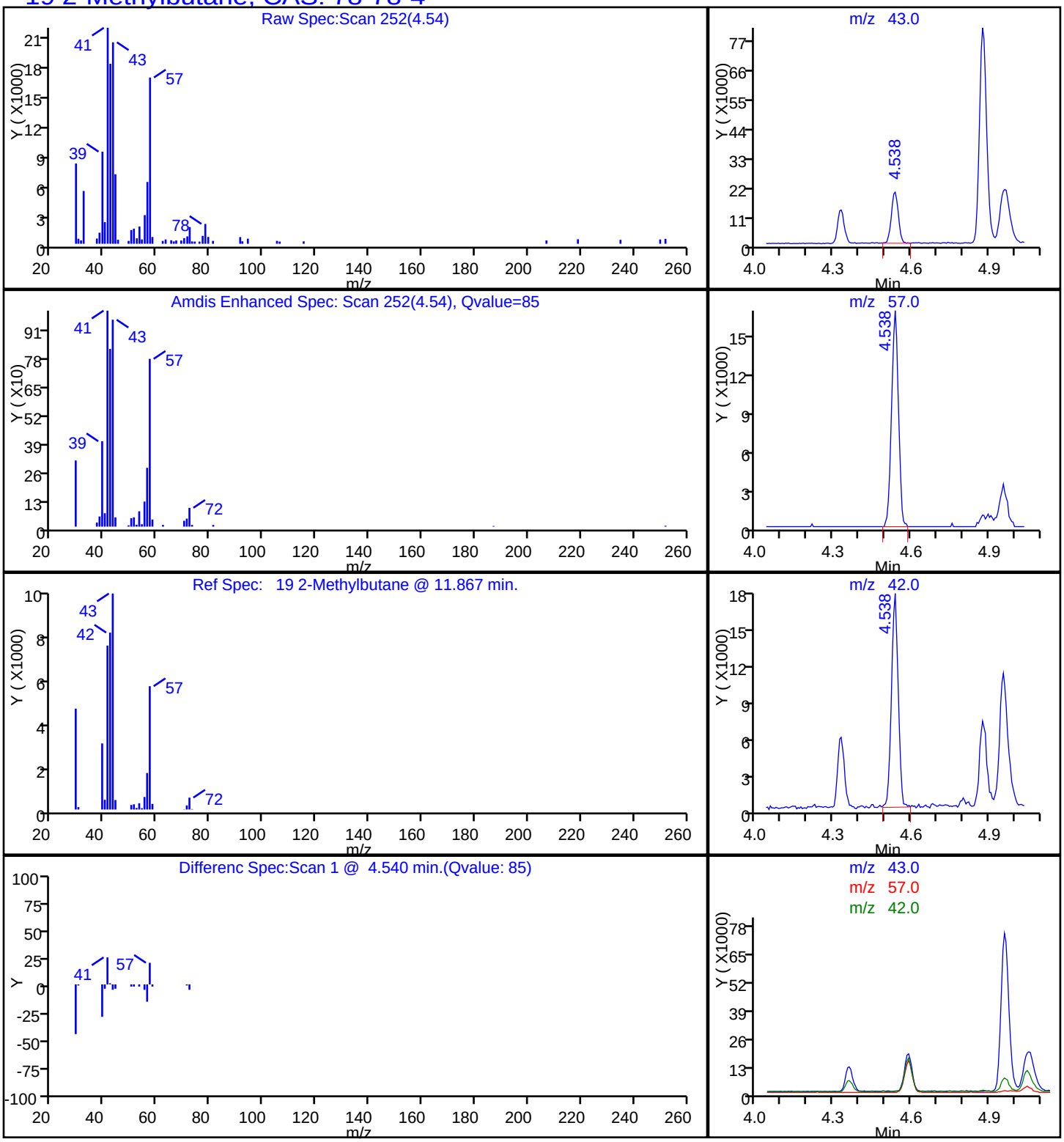
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

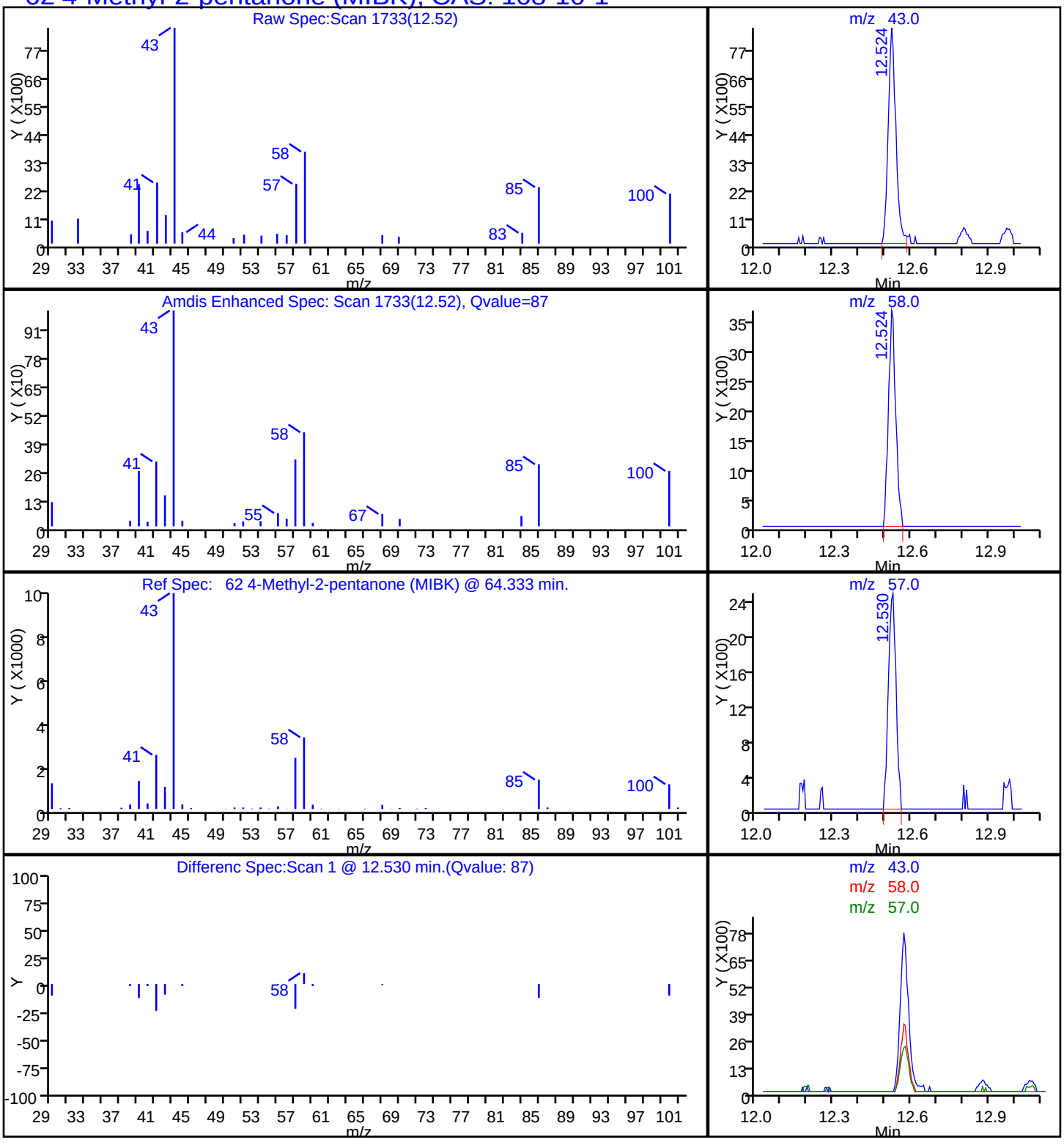
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



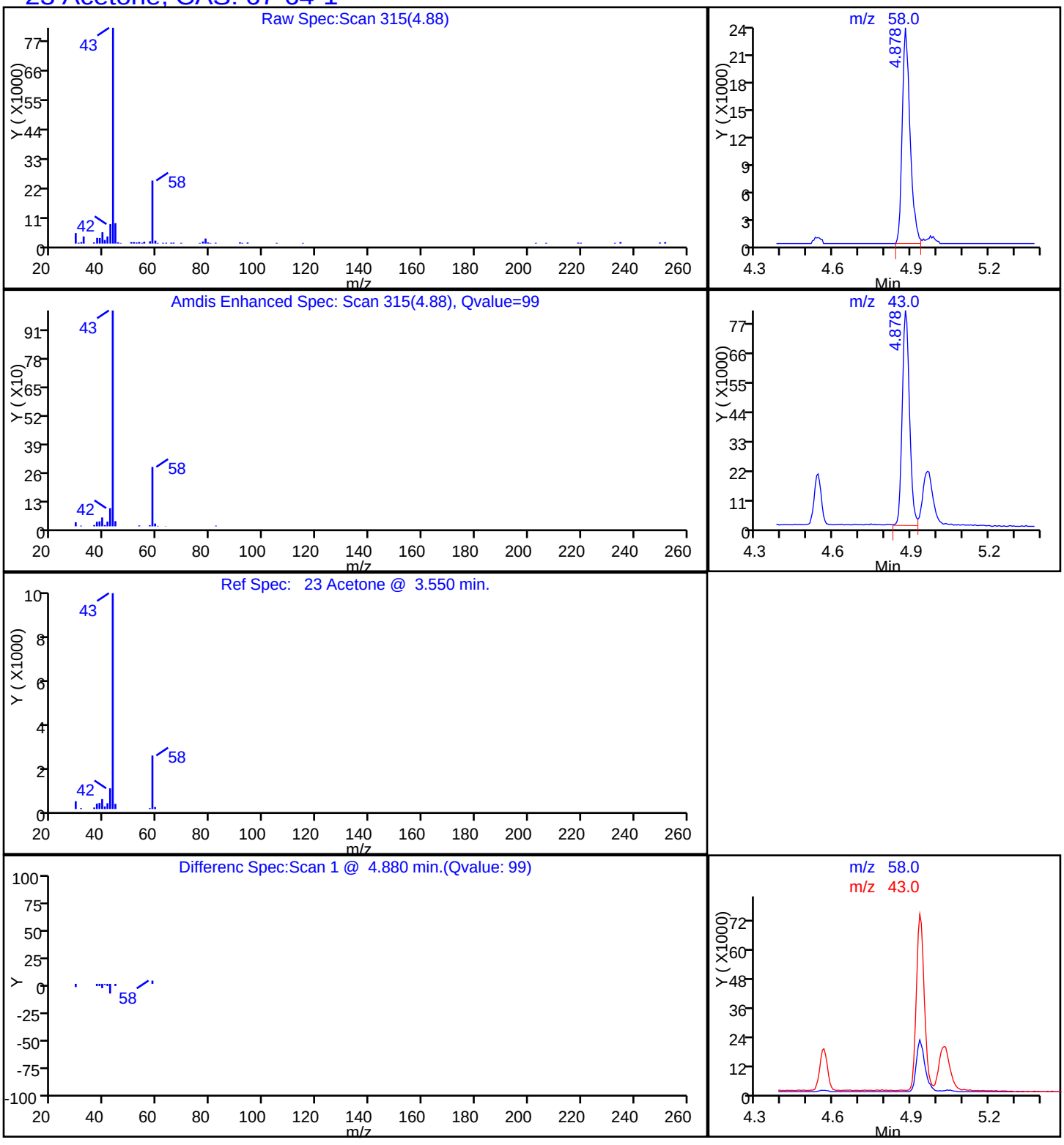
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



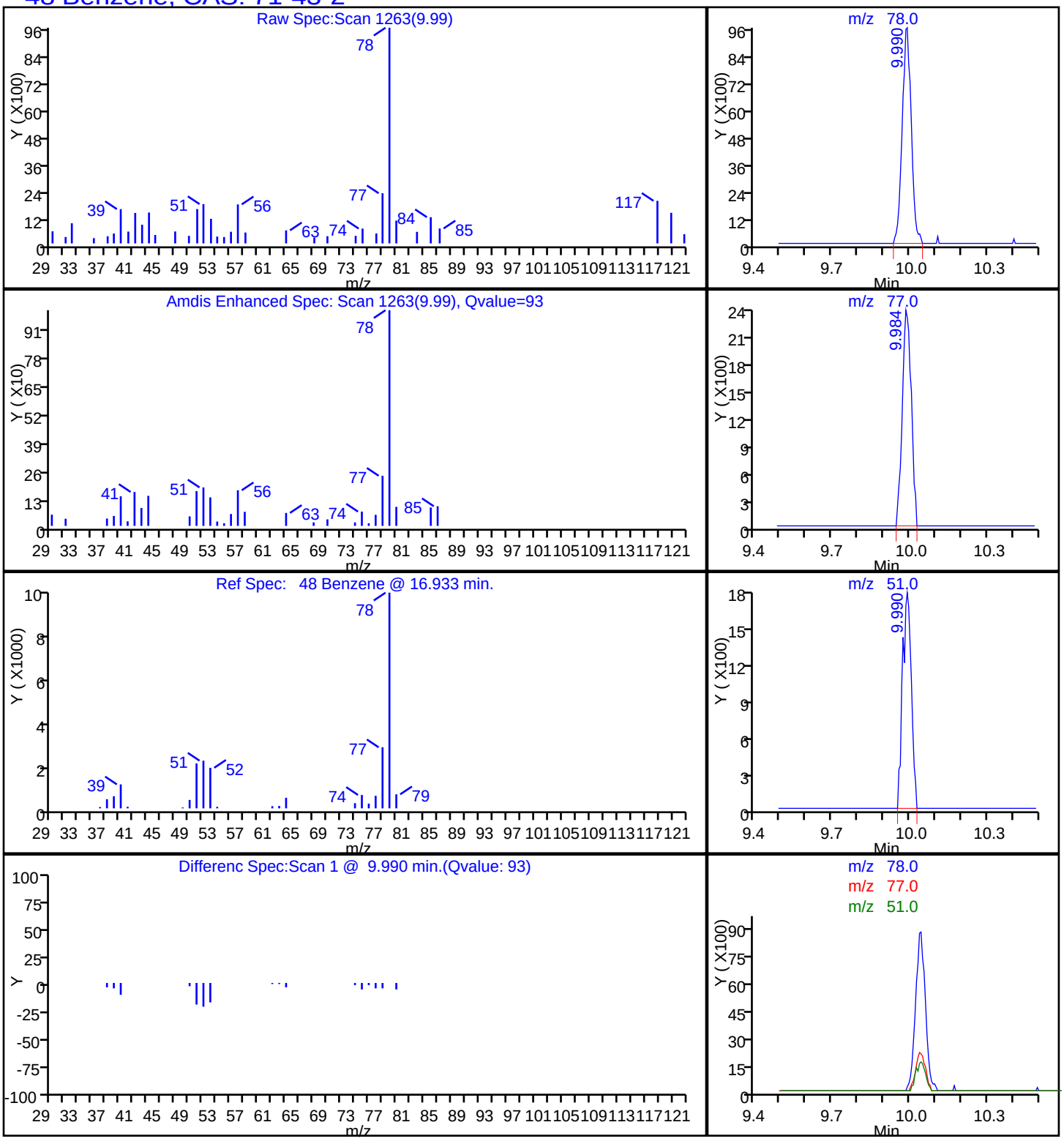
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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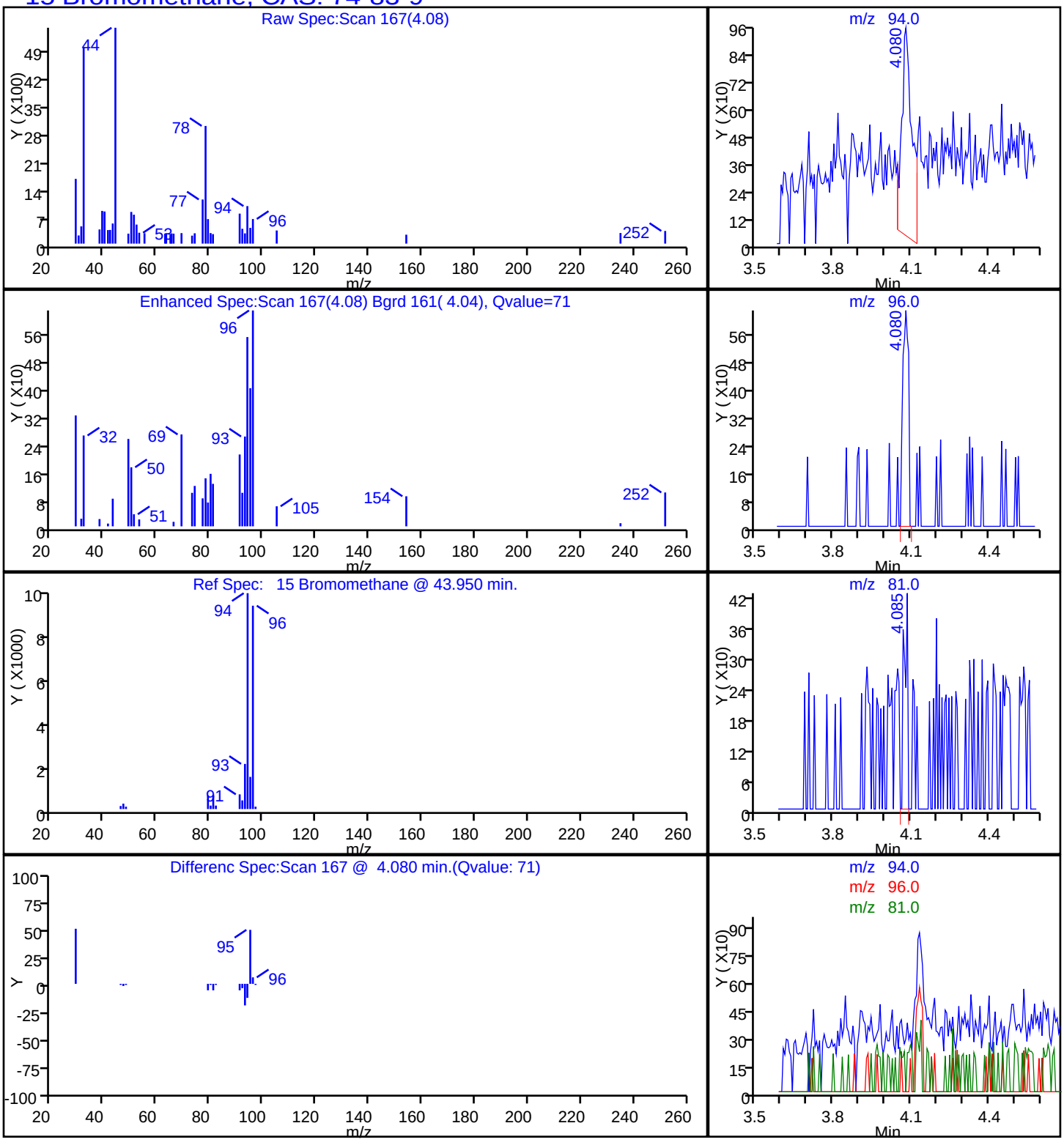
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



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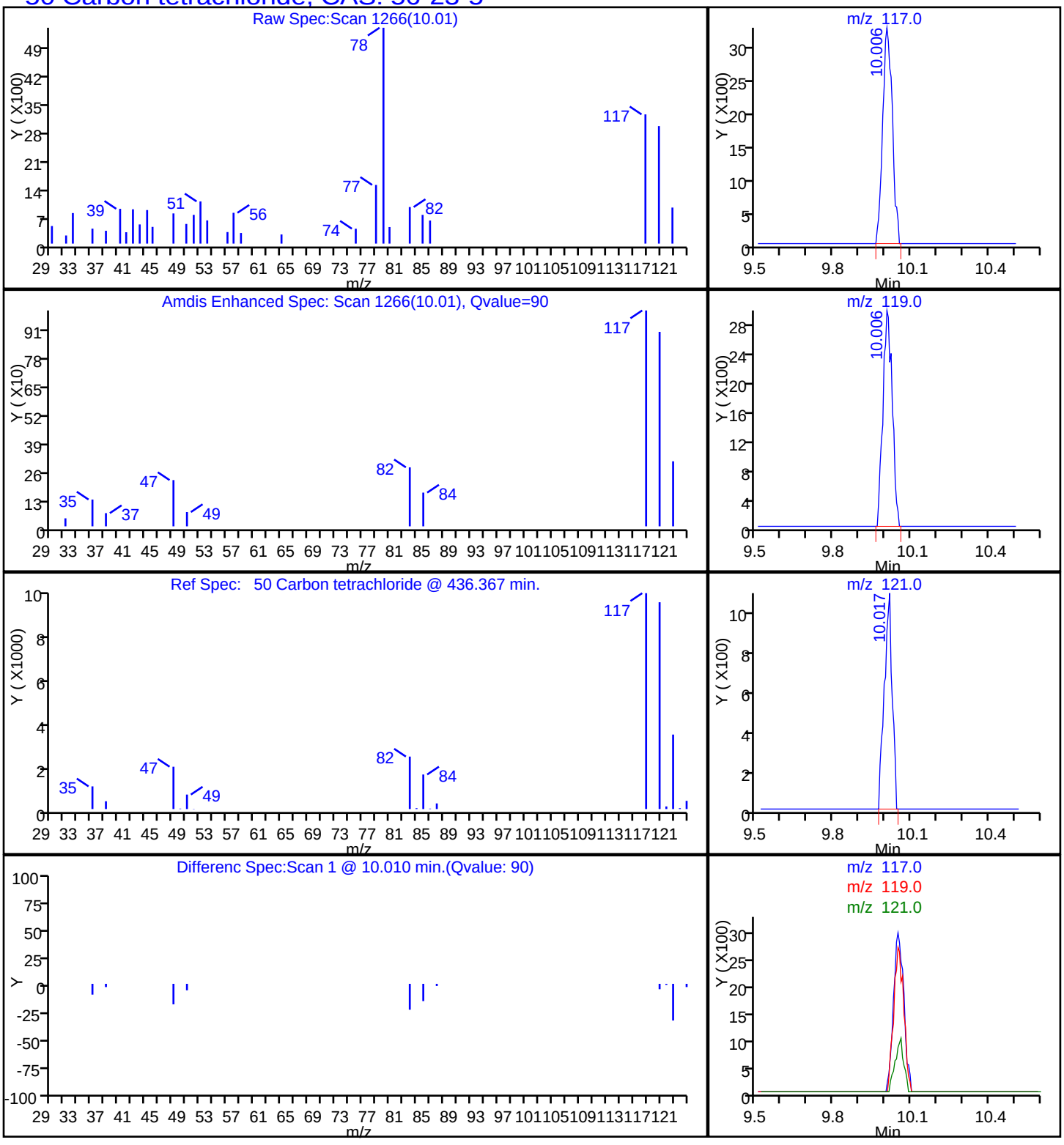
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



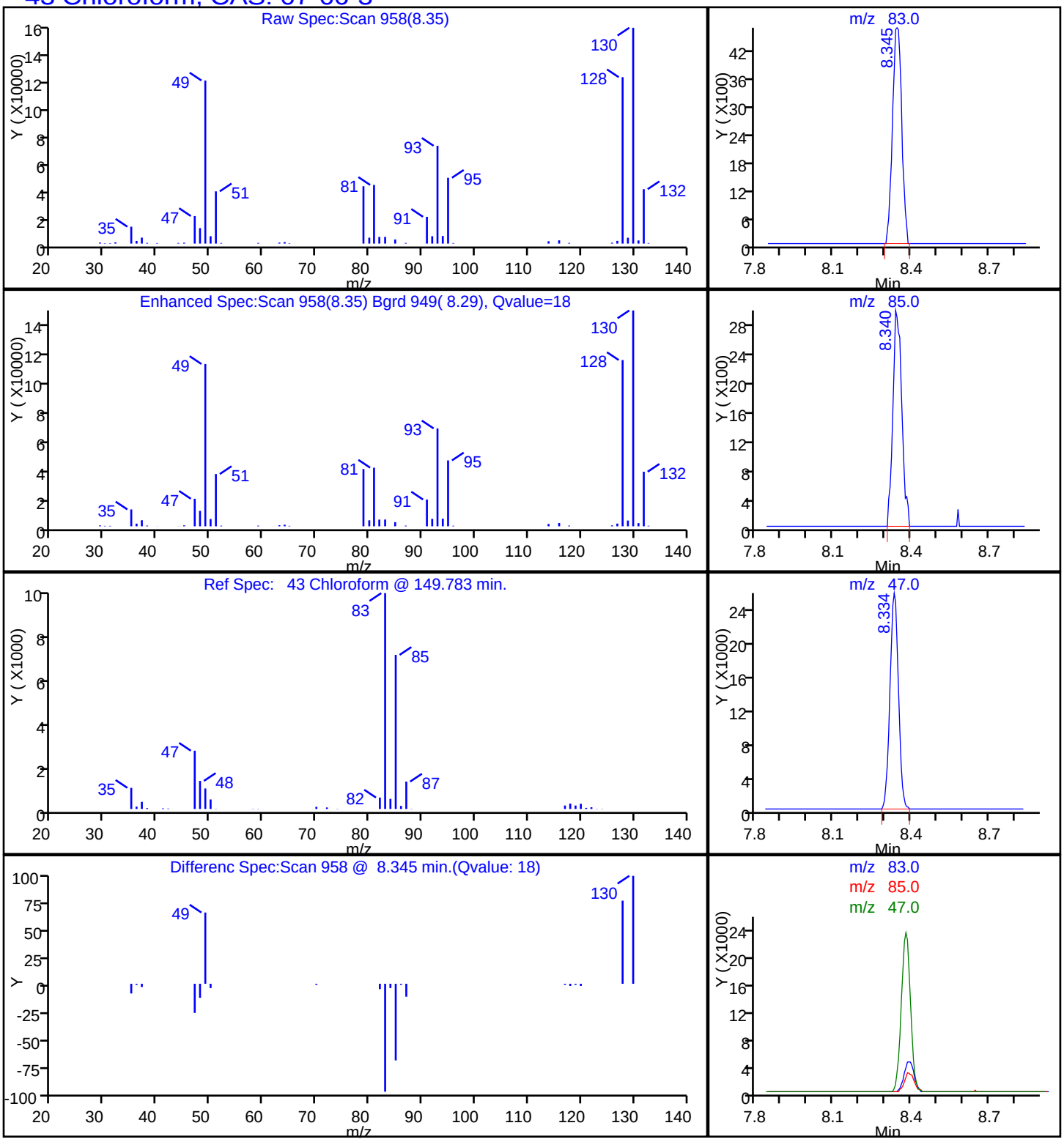
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

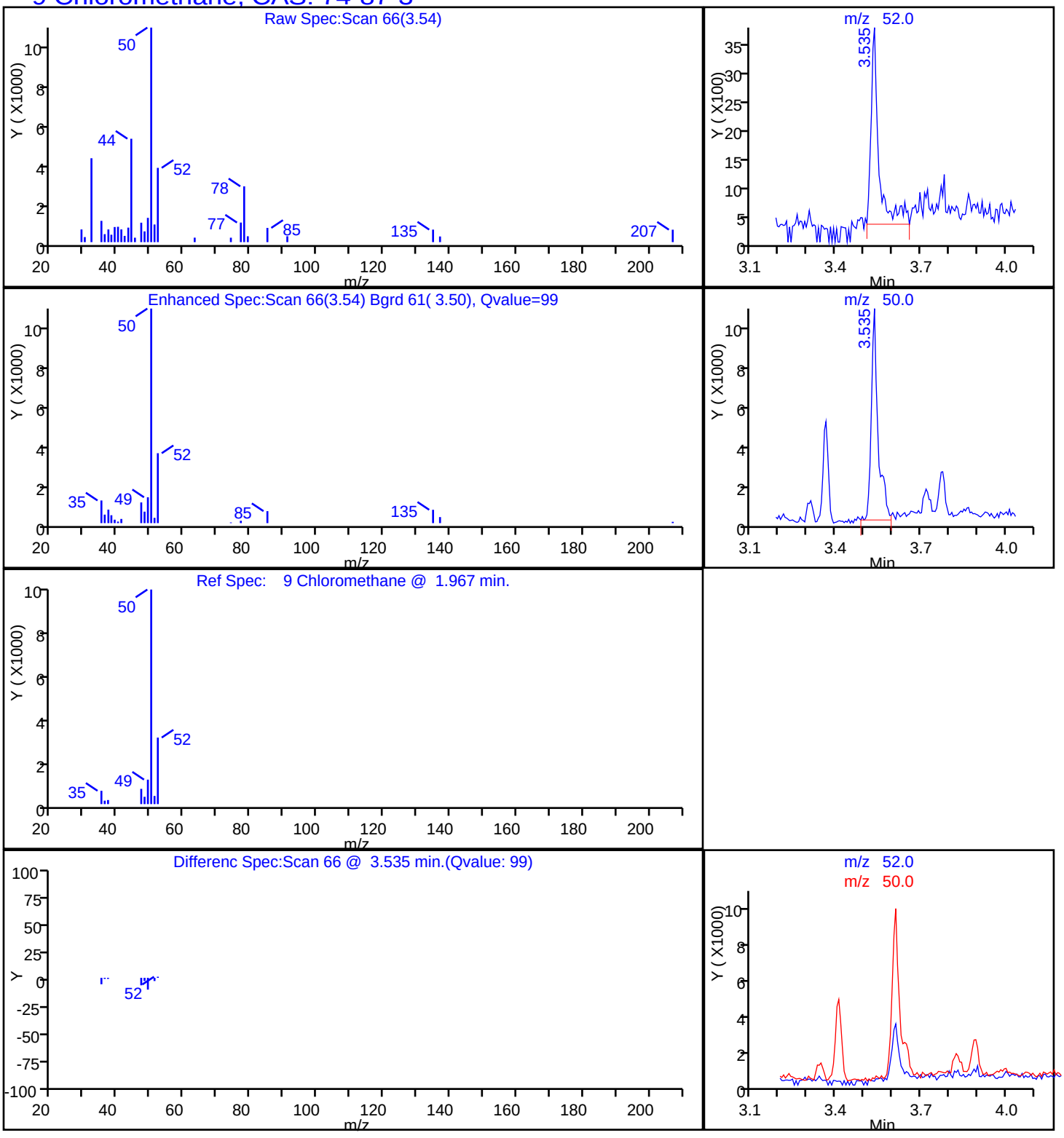
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

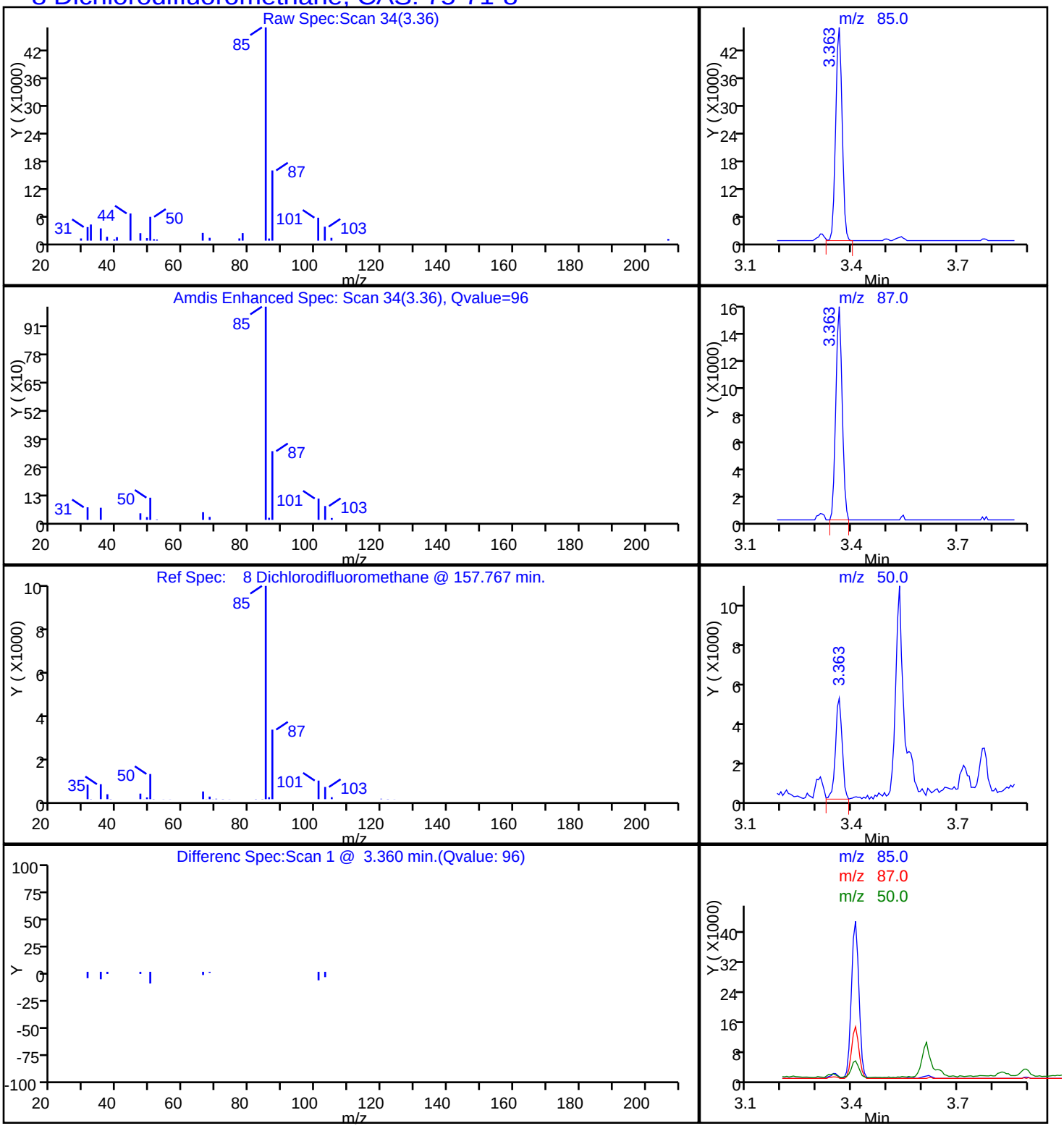
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

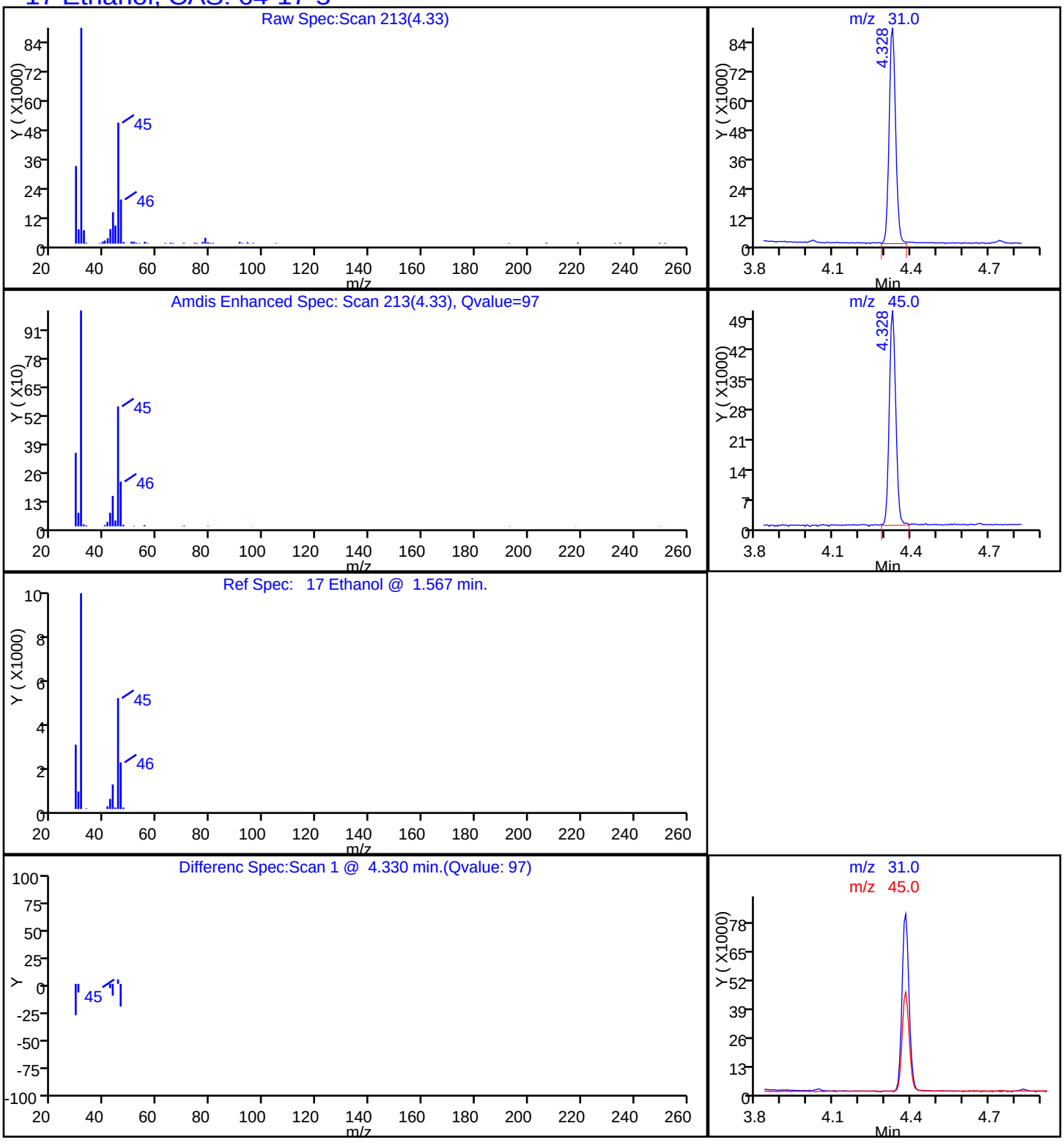


Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D				
Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



Report Date: 21-Mar-2014 09:33:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

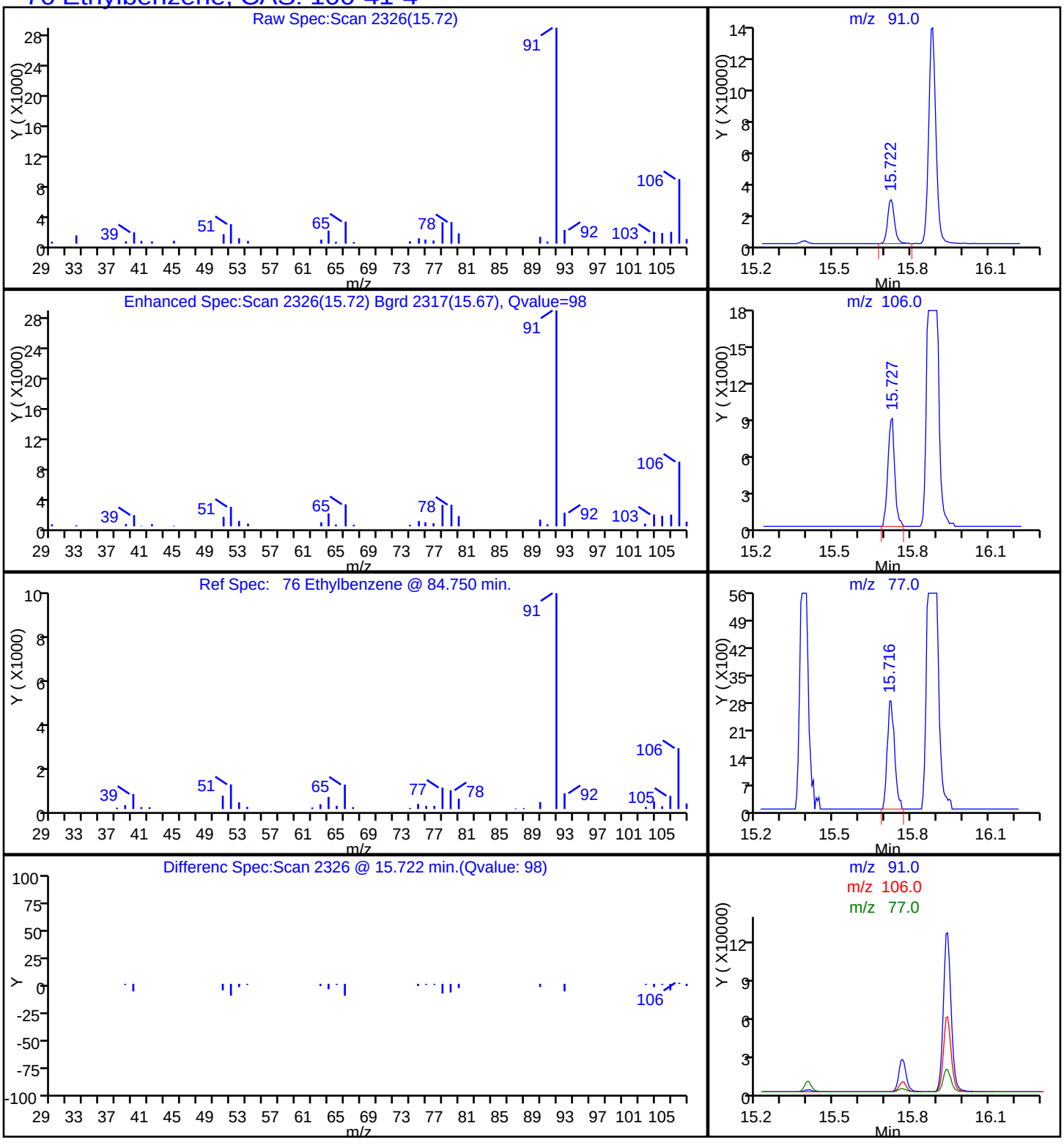
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



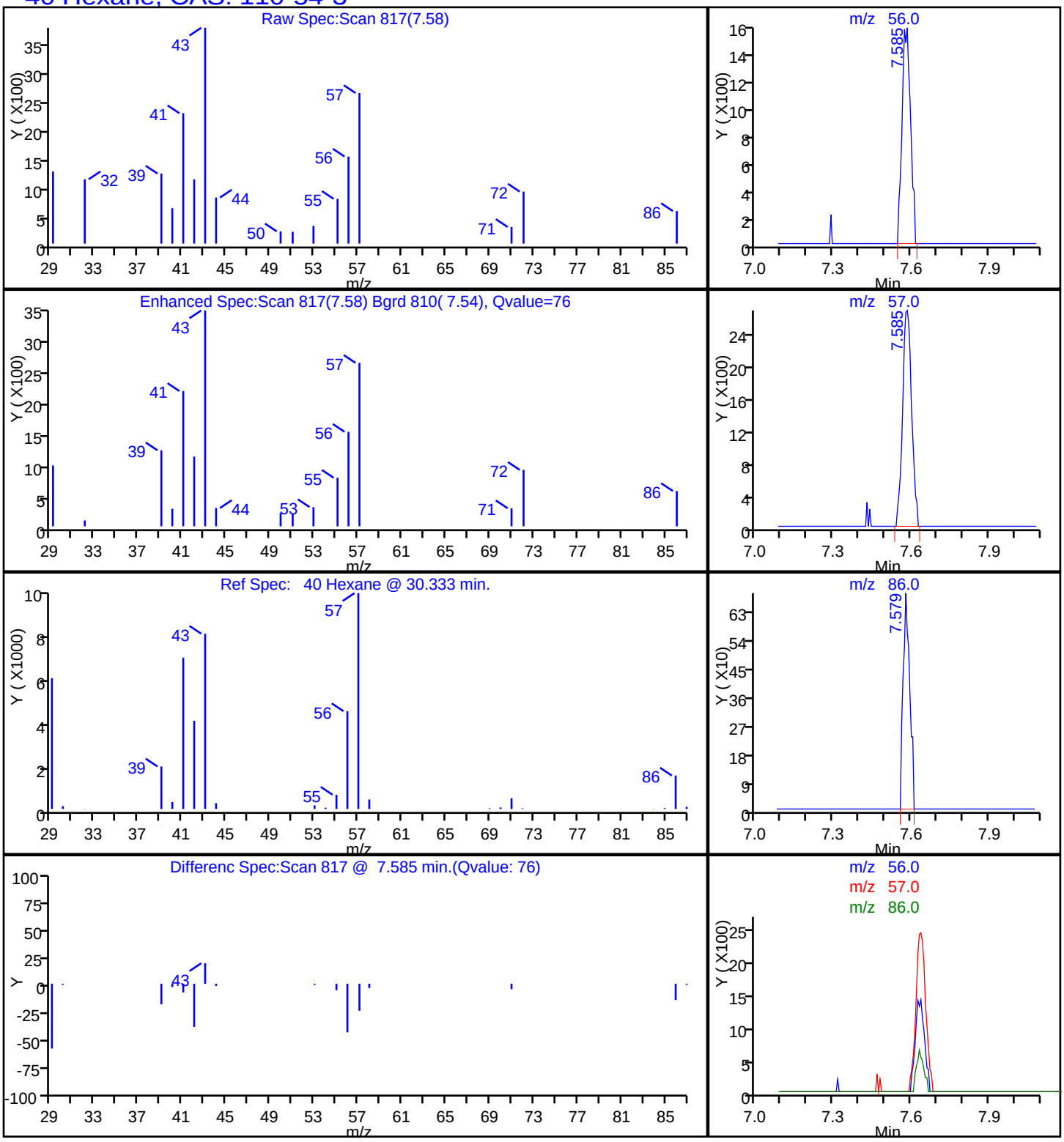
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date: 20-Mar-2014 19:31:30 Instrument ID: ME

Lims ID: 140-1060-A-7 Lab Sample ID: 140-1060-7

Client ID: PCV-IA3-B15

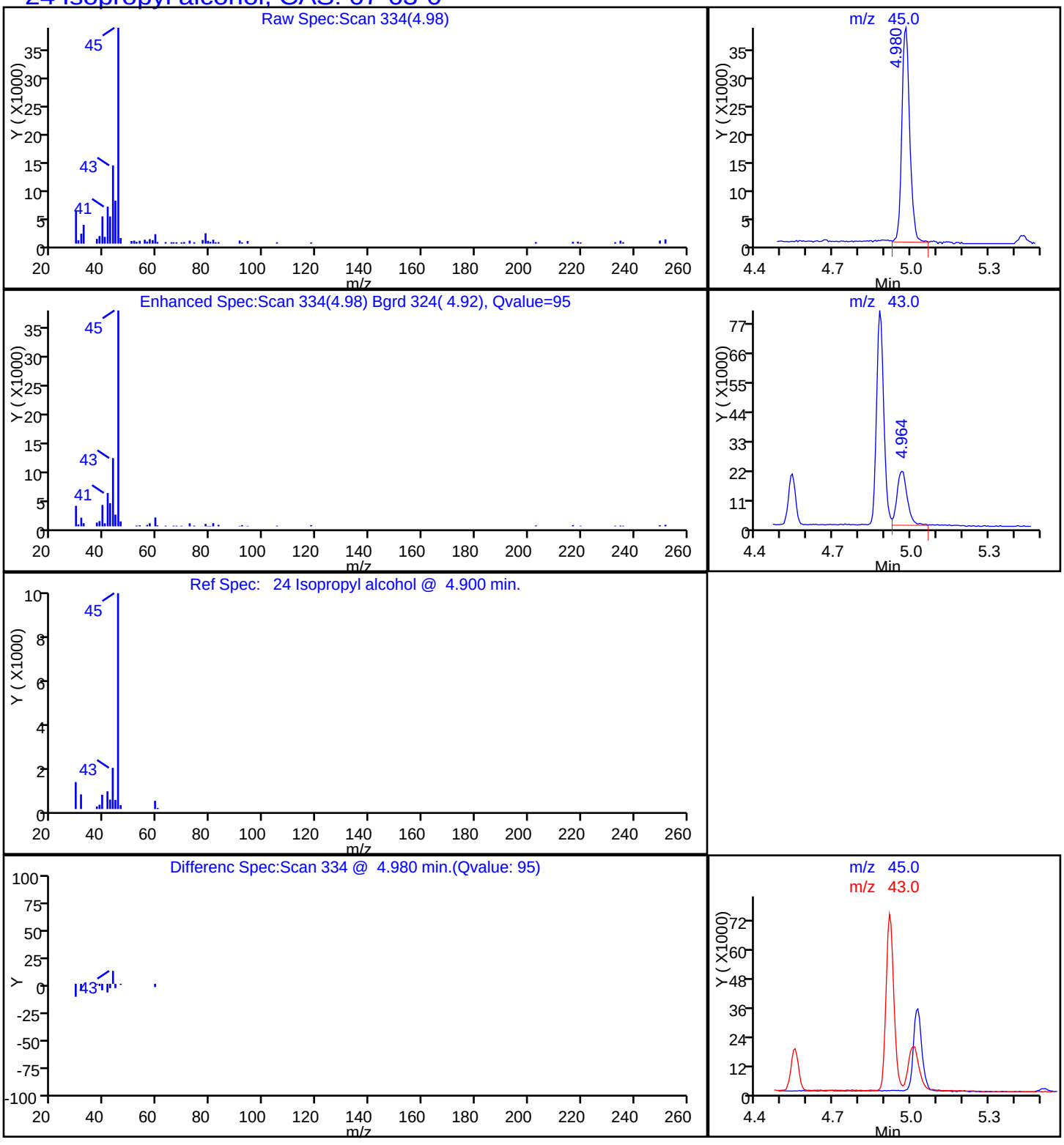
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



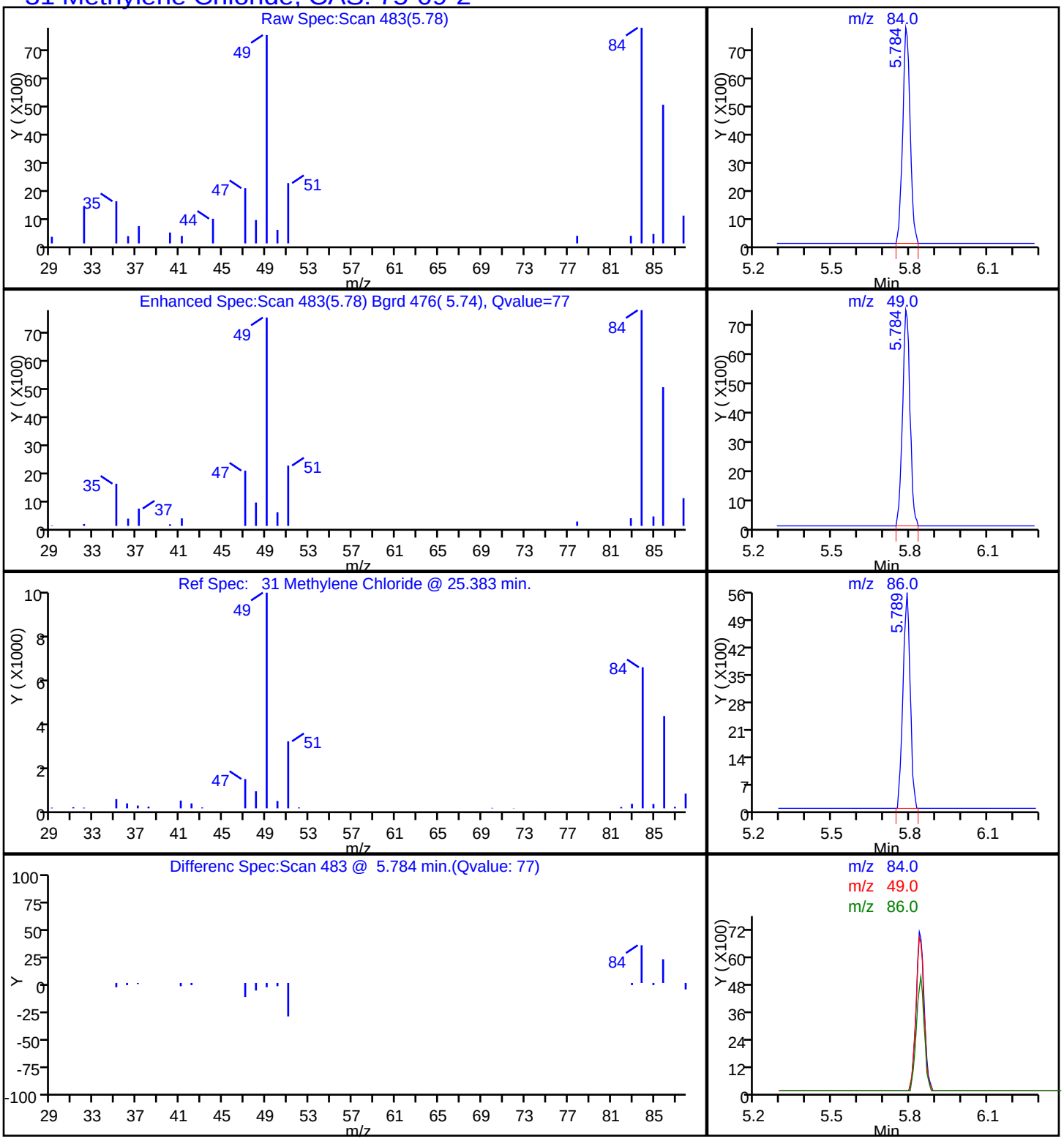
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



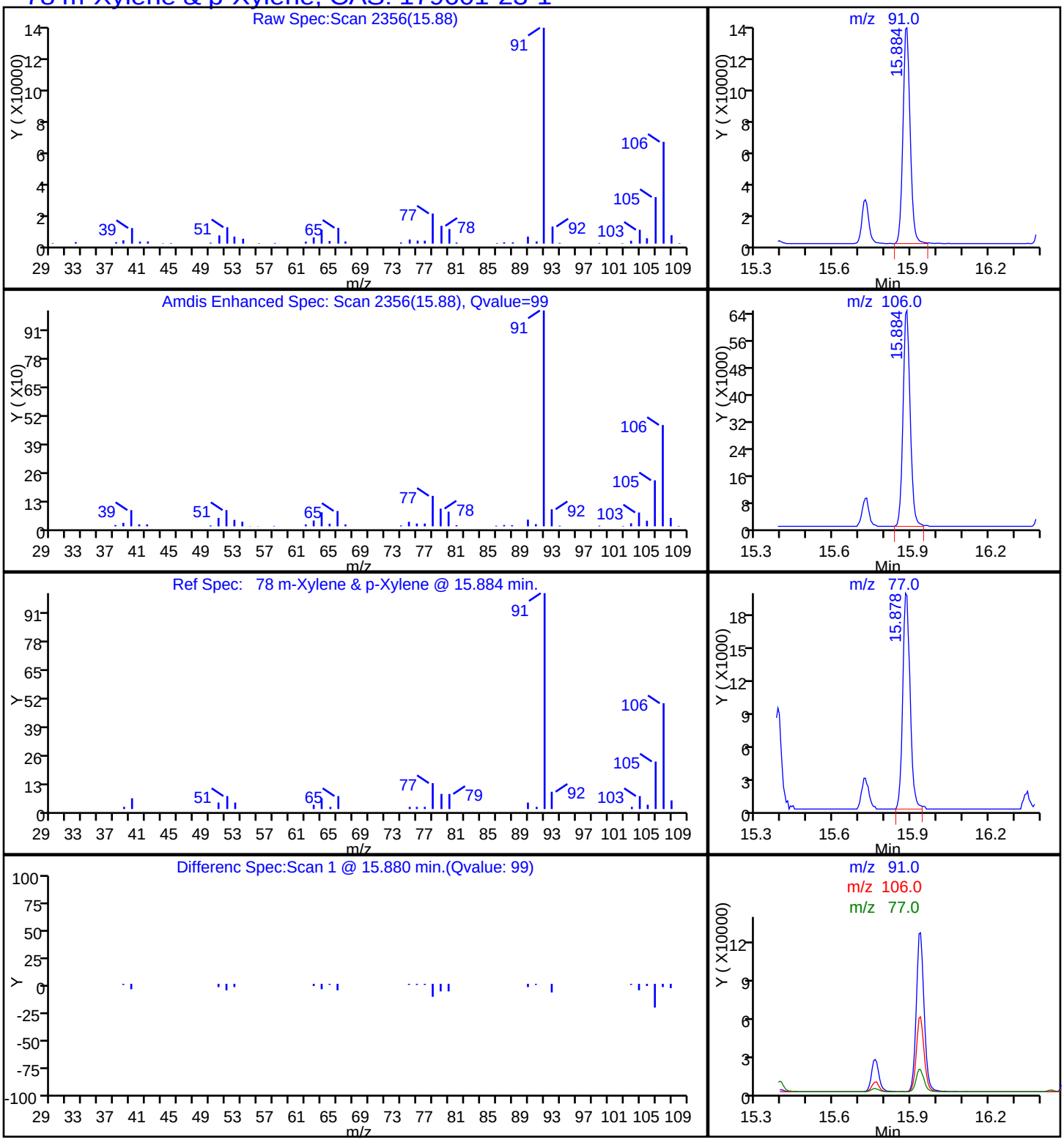
Report Date: 21-Mar-2014 09:33:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



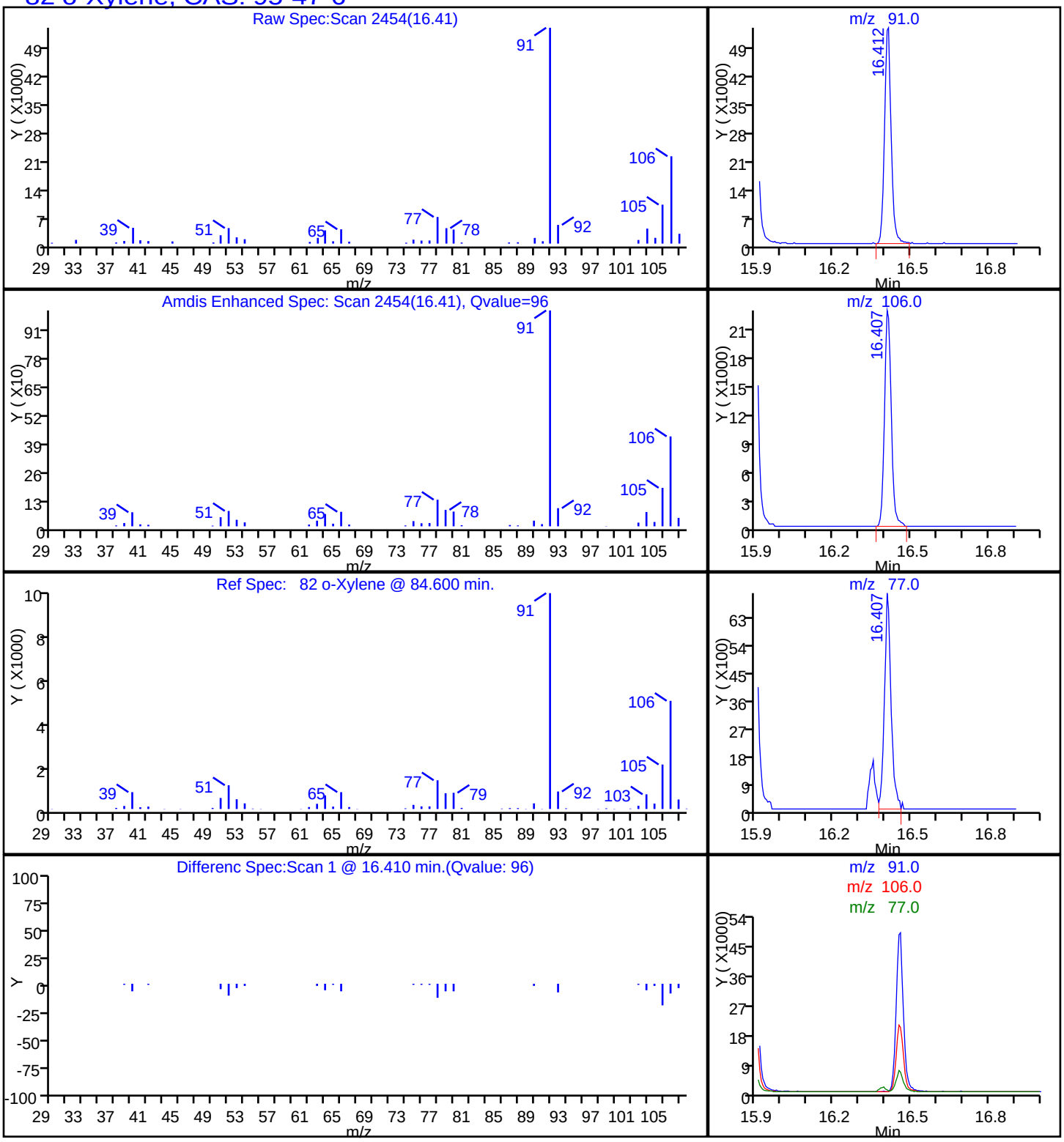
Report Date: 21-Mar-2014 09:33:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



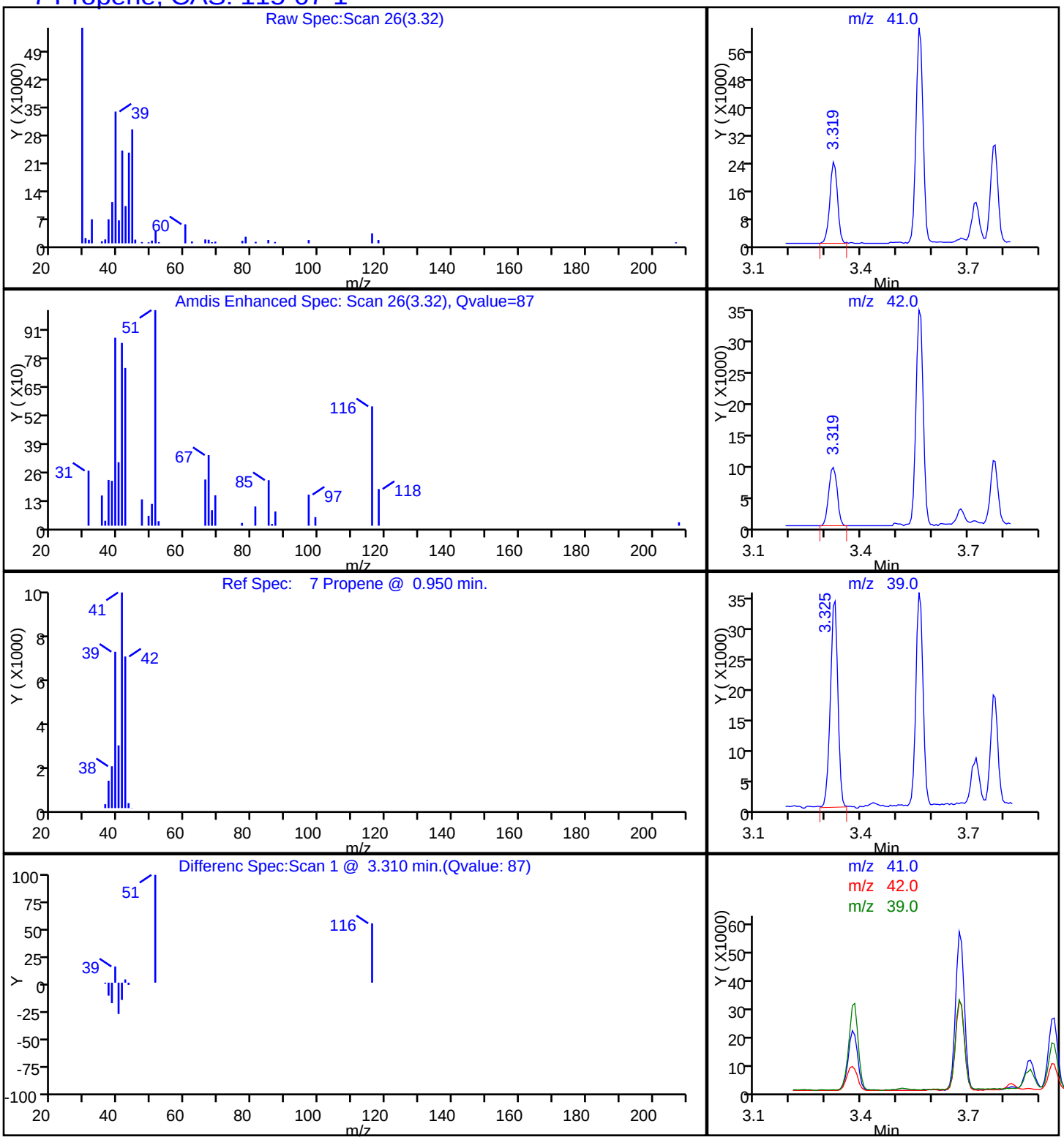
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



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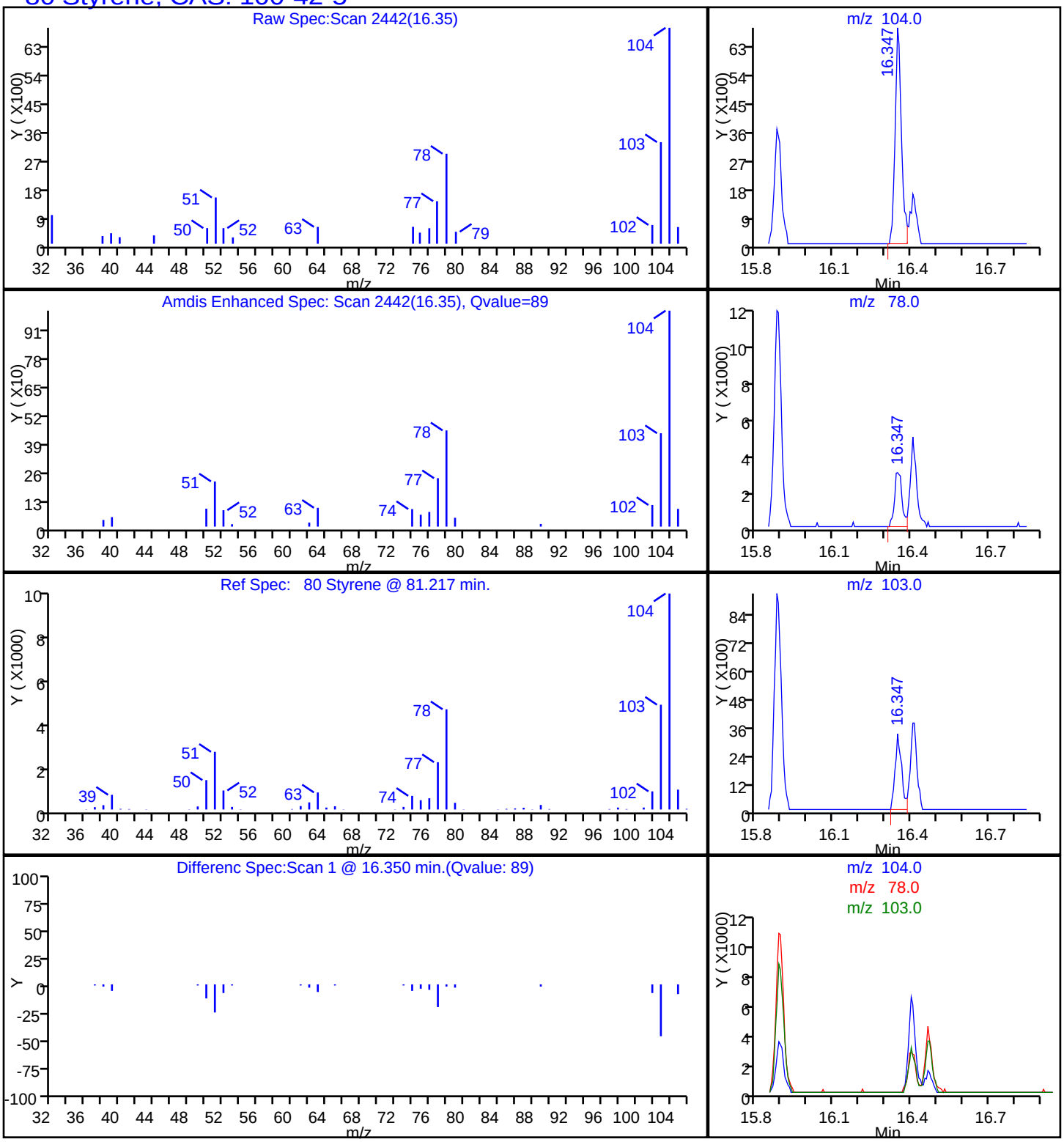
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME		
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7		
Client ID:	PCV-IA3-B15				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



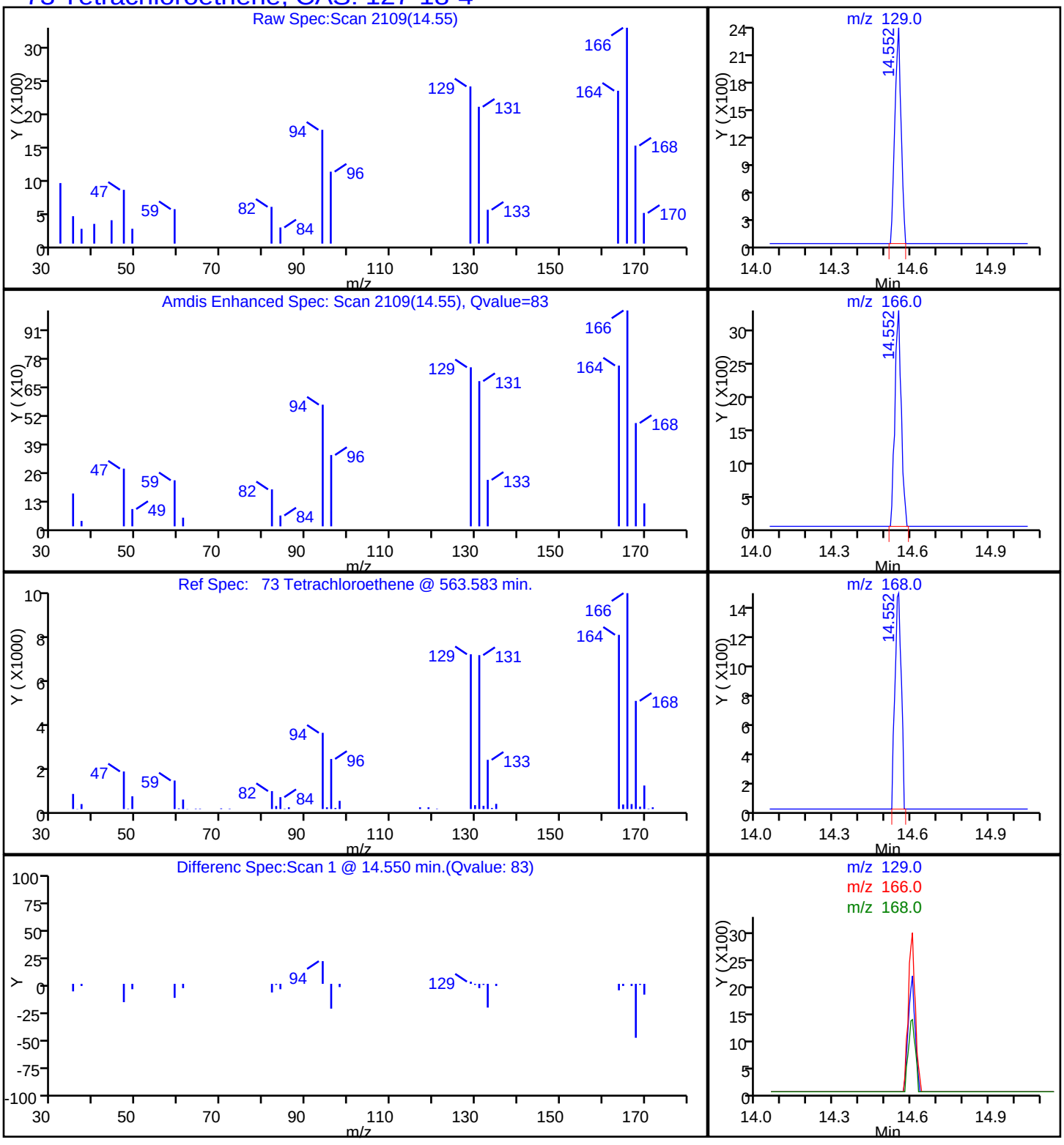
Report Date: 21-Mar-2014 09:33:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



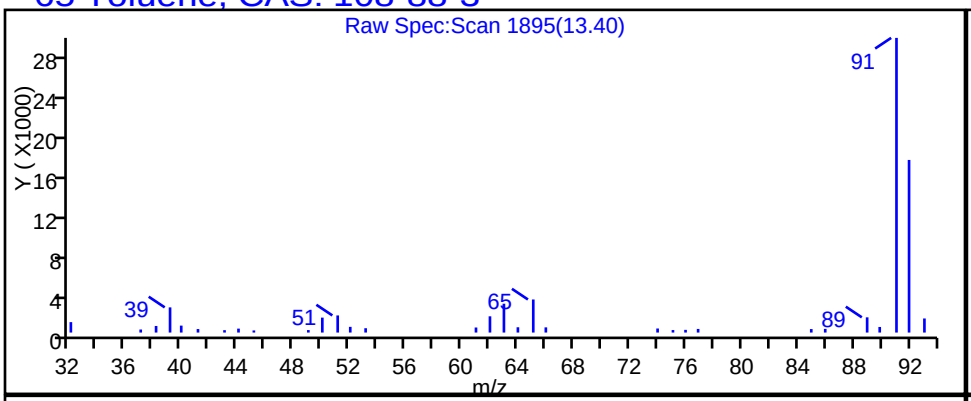
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

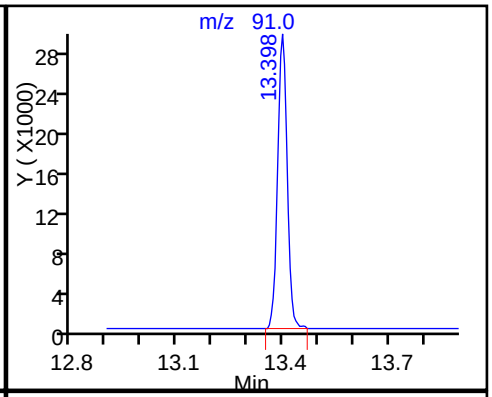
TestAmerica Knoxville

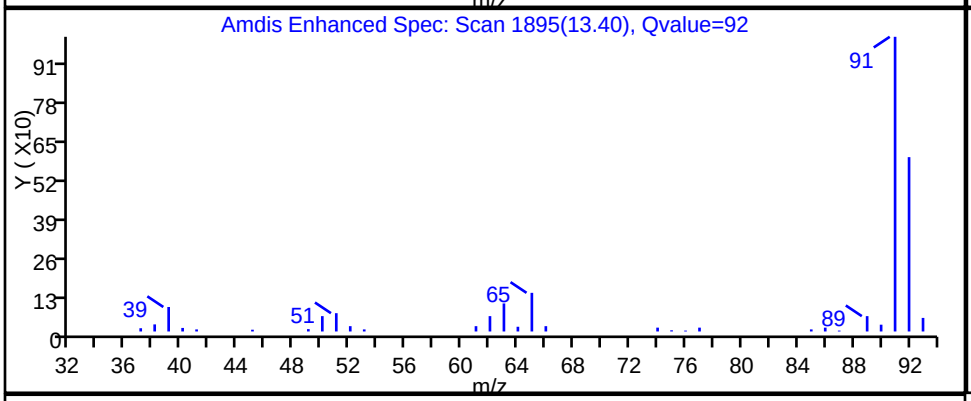
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

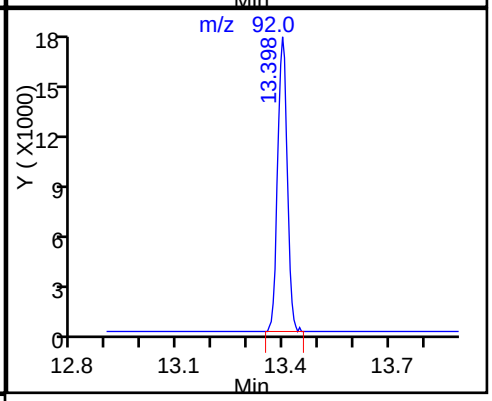
Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

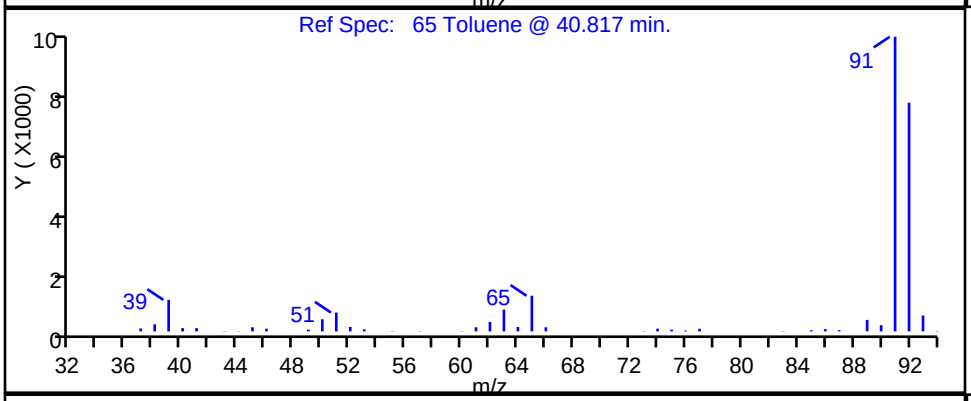
65 Toluene, CAS: 108-88-3

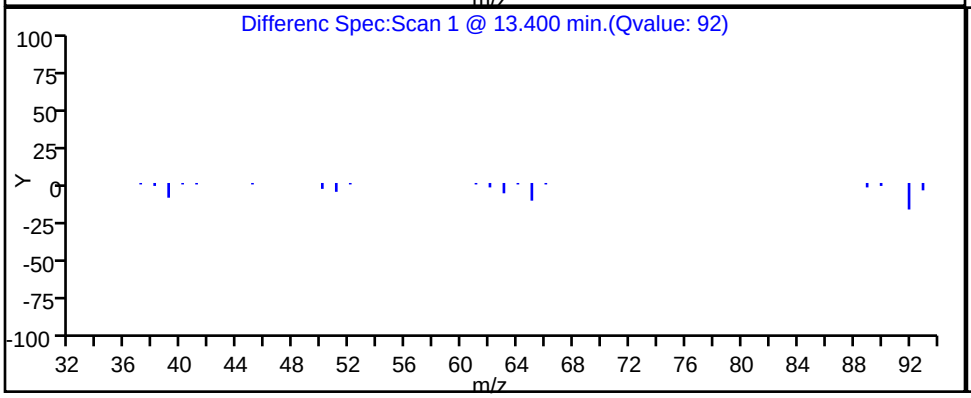


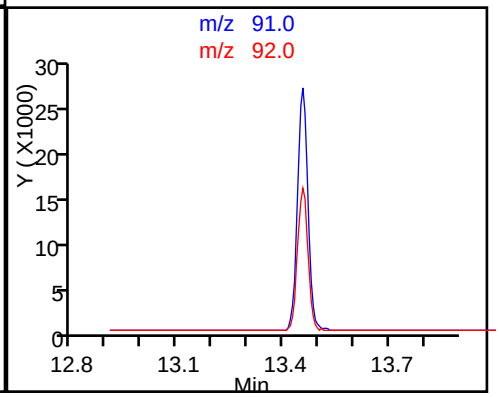












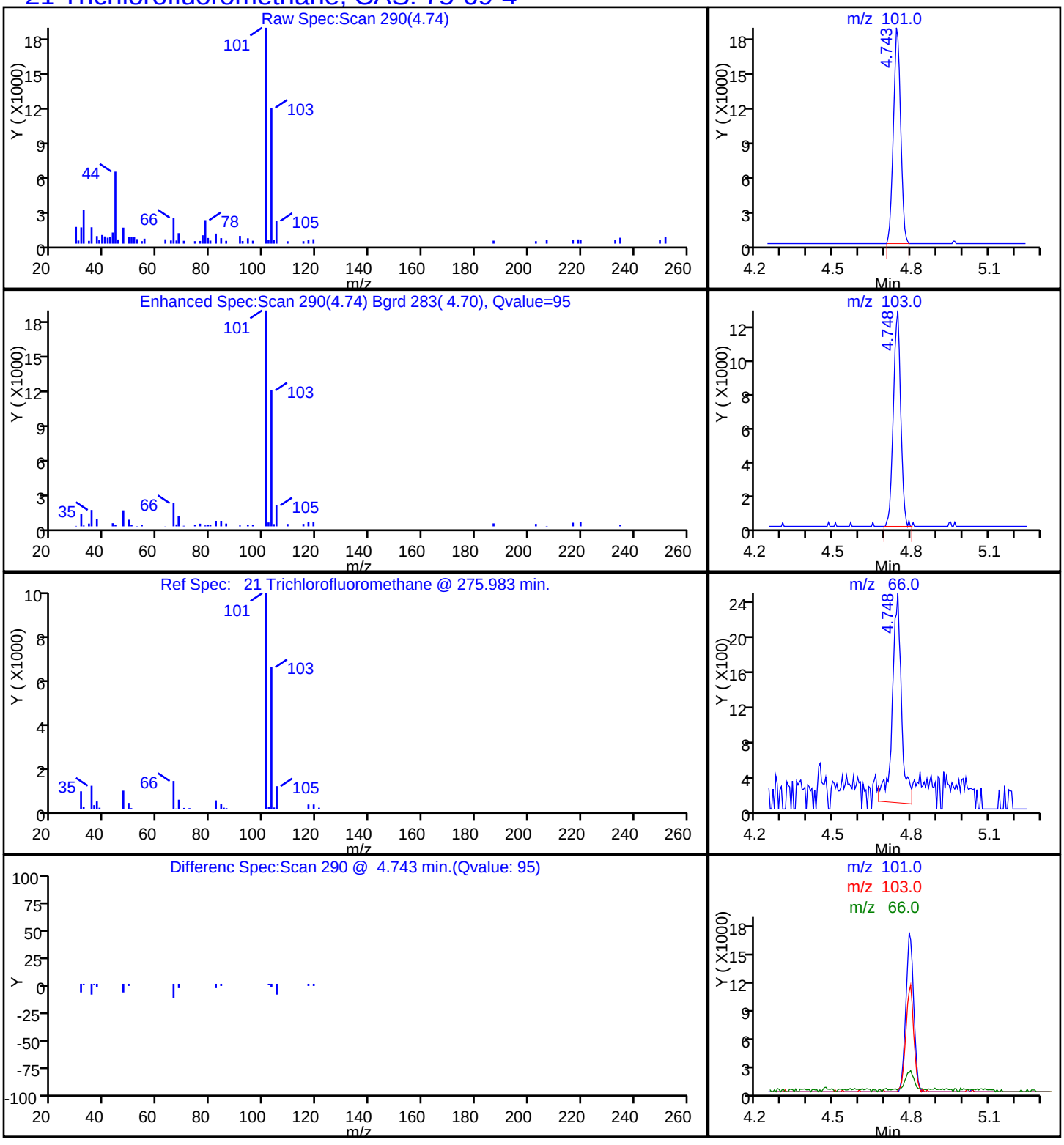
Report Date: 21-Mar-2014 09:33:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P105.D

Injection Date:	20-Mar-2014 19:31:30	Instrument ID:	ME
Lims ID:	140-1060-A-7	Lab Sample ID:	140-1060-7
Client ID:	PCV-IA3-B15		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.087	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.042	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.87		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.095	J	0.50	0.045
67-64-1	Acetone	58.08	3.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.088	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.080	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.20	0.068
64-17-5	Ethanol	46.07	10		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.24	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.95	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.85		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.97	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.068	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.32		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.32		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.66	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.72	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.39	J	2.0	0.18
67-64-1	Acetone	58.08	7.2	J	12	3.3
71-43-2	Benzene	78.11	0.70		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.56	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.27	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	19		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.46	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.83	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.3	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	3.0		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.46	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.8		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB7 Lab Sample ID: 140-1060-8

Matrix: Air Lab File ID: EC20P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:47

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D
Lims ID: 140-1060-A-8 Lab Sample ID: 140-1060-8
Client ID: PCV-AMB7
Sample Type: Client
Inject. Date: 20-Mar-2014 20:16:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-8
Misc. Info.: E032014,TO155,,140-0000533-010
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:34:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:34:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	261996	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1205479	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1013420	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	735481	3.31	
7 Propene	41	3.319	3.314	0.005	73	25459	0.3863	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	99	57595	0.1987	
9 Chloromethane	52	3.535	3.530	0.005	99	5569	0.2407	
17 Ethanol	31	4.312	4.317	-0.005	98	105512	4.03	
19 2-Methylbutane	43	4.538	4.538	0.0	85	32084	0.3497	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	37006	0.1273	
23 Acetone	58	4.878	4.883	-0.005	93	48390	1.22	
24 Isopropyl alcohol	45	4.975	4.970	0.005	74	38733	0.3791	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	82	6228	0.0346	
31 Methylene Chloride	84	5.789	5.789	0.0	69	25455	0.3400	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	83	4169	0.0972	
40 Hexane	56	7.579	7.585	-0.006	78	6603	0.0947	
49 Cyclohexane	69	10.000	9.984	0.016	37	1453	0.0319	
48 Benzene	78	9.984	9.995	-0.011	93	21220	0.0875	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	87	8237	0.0353	
53 Isooctane	57	10.777	10.788	-0.011	62	6257	0.0167	
54 n-Heptane	71	11.176	11.182	-0.006	55	4100	0.0446	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	74	5436	0.0380	
65 Toluene	91	13.398	13.398	0.0	88	34620	0.1275	
73 Tetrachloroethene	129	14.546	14.552	-0.006	81	3135	0.0271	

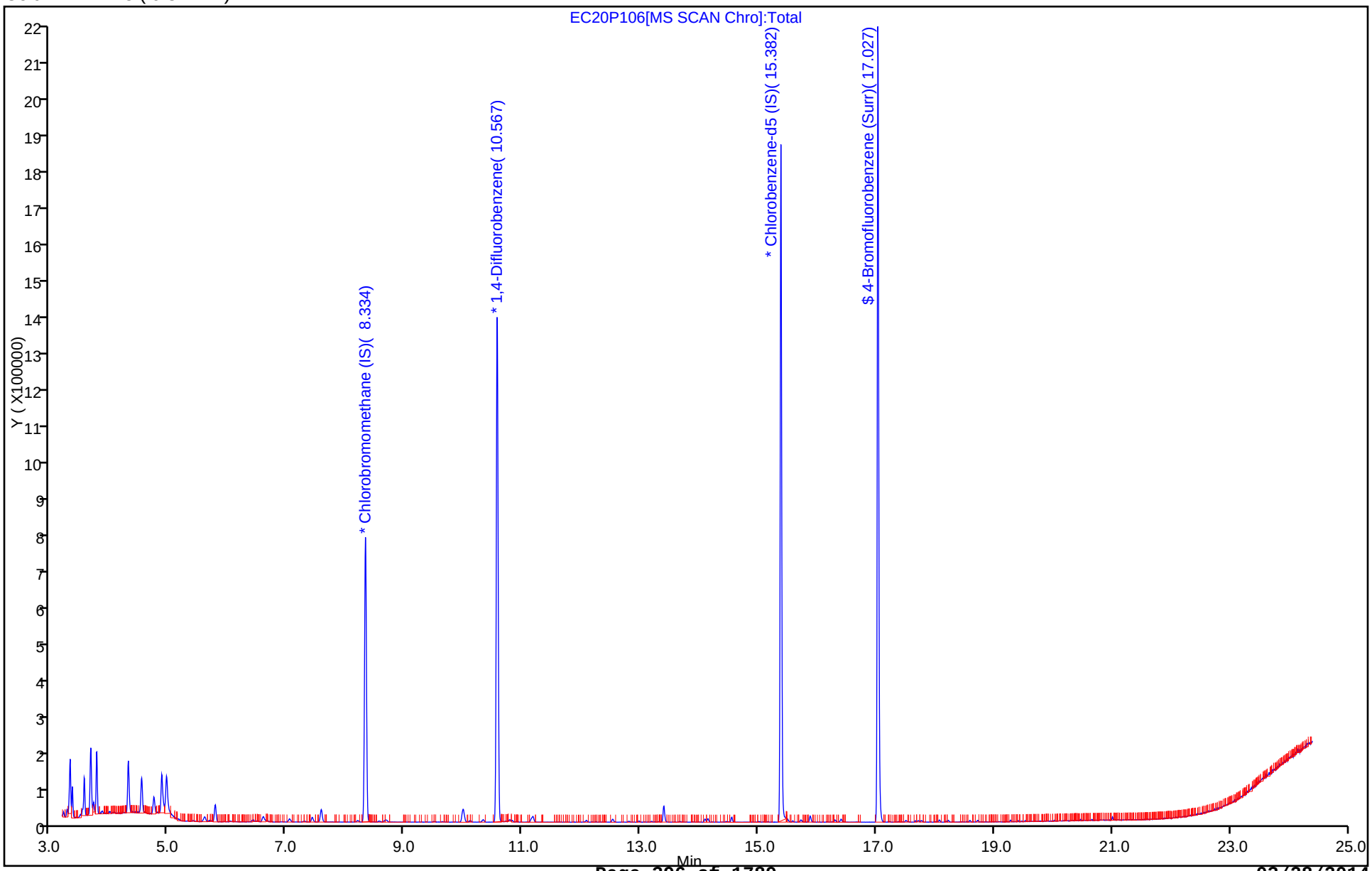
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8	Worklist Smp#:	10
Client ID:	PCV-AMB7				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date: 20-Mar-2014 20:16:30 Instrument ID: ME

Lims ID: 140-1060-A-8 Lab Sample ID: 140-1060-8

Client ID: PCV-AMB7

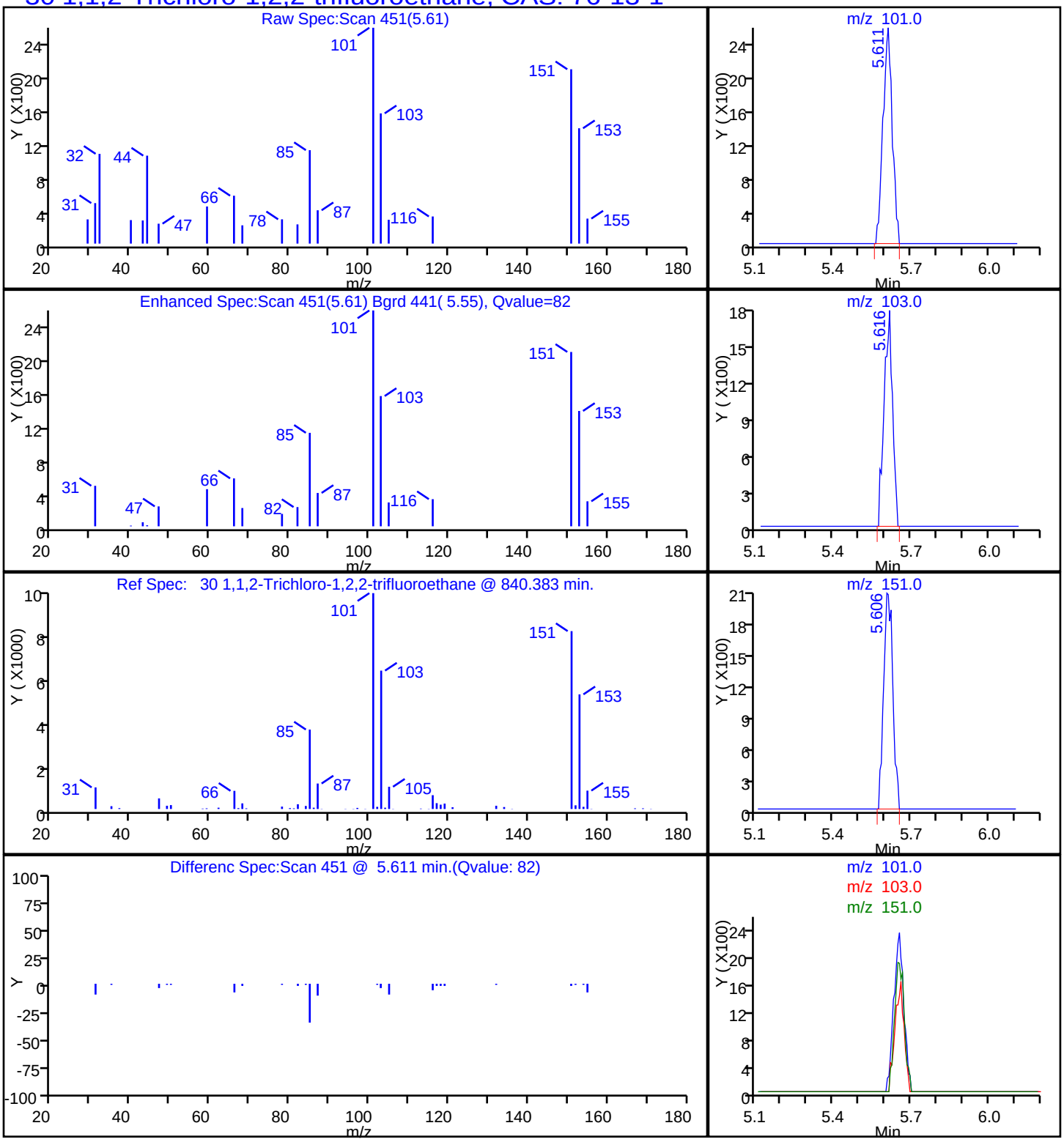
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

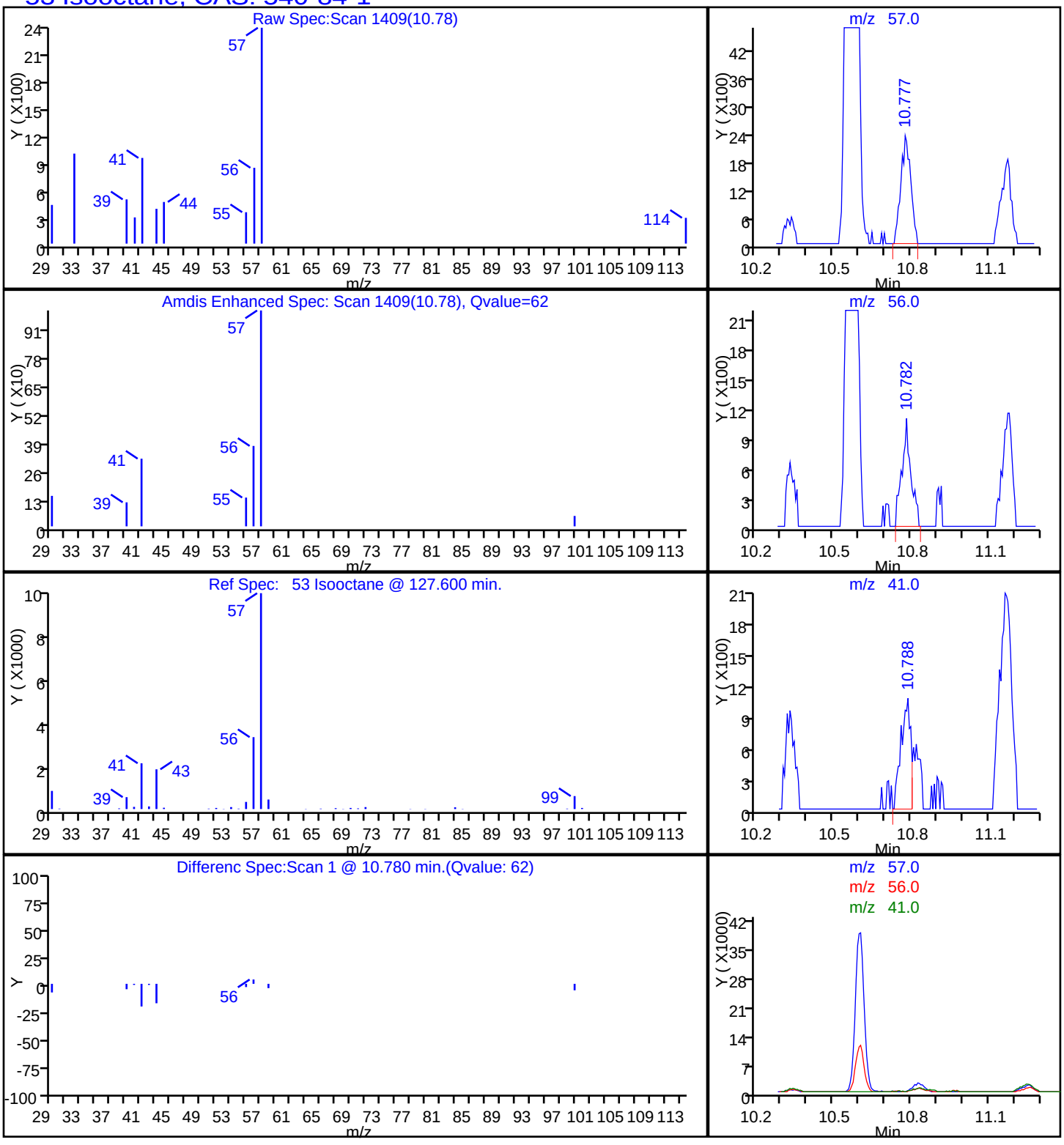


Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



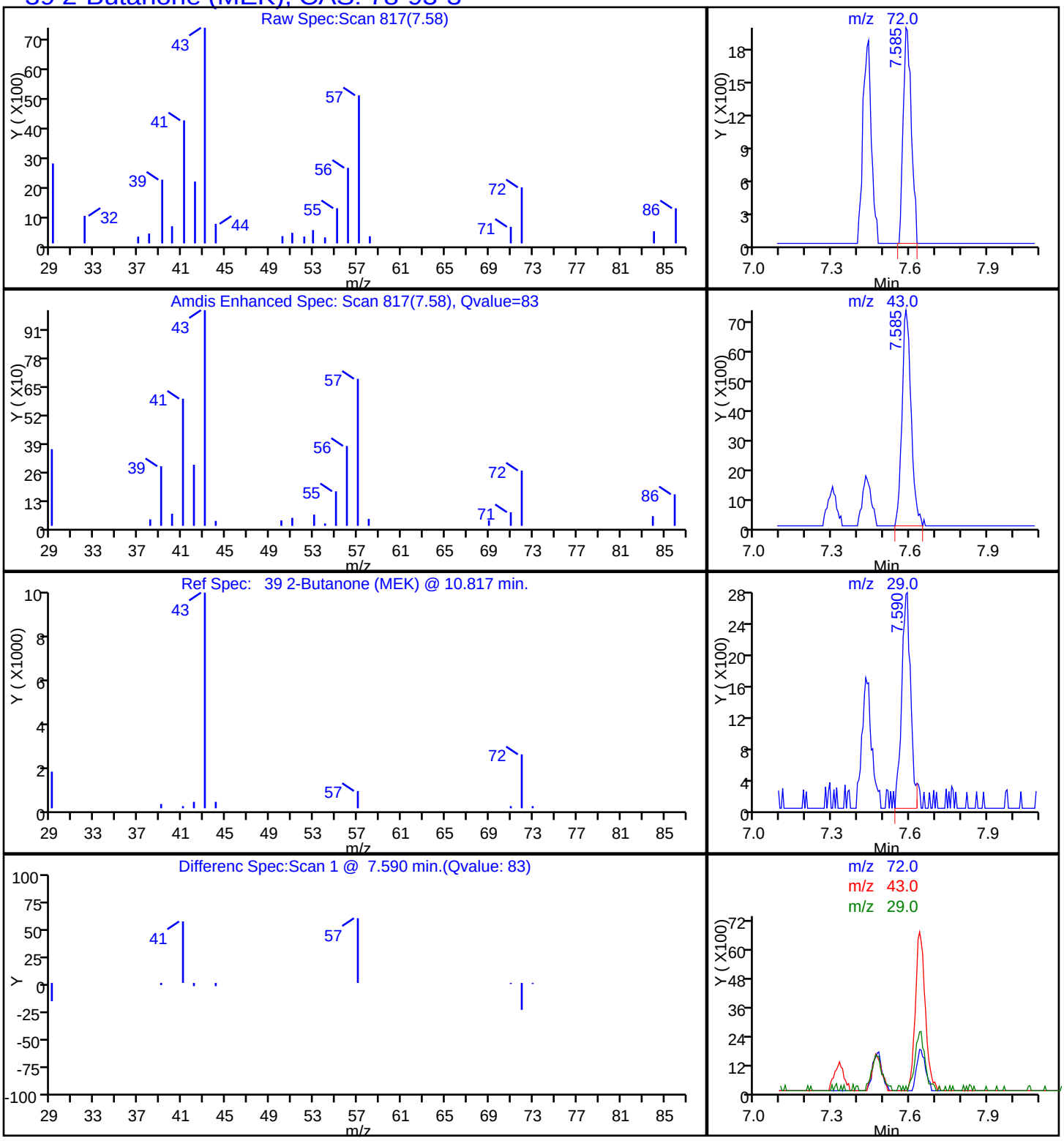
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



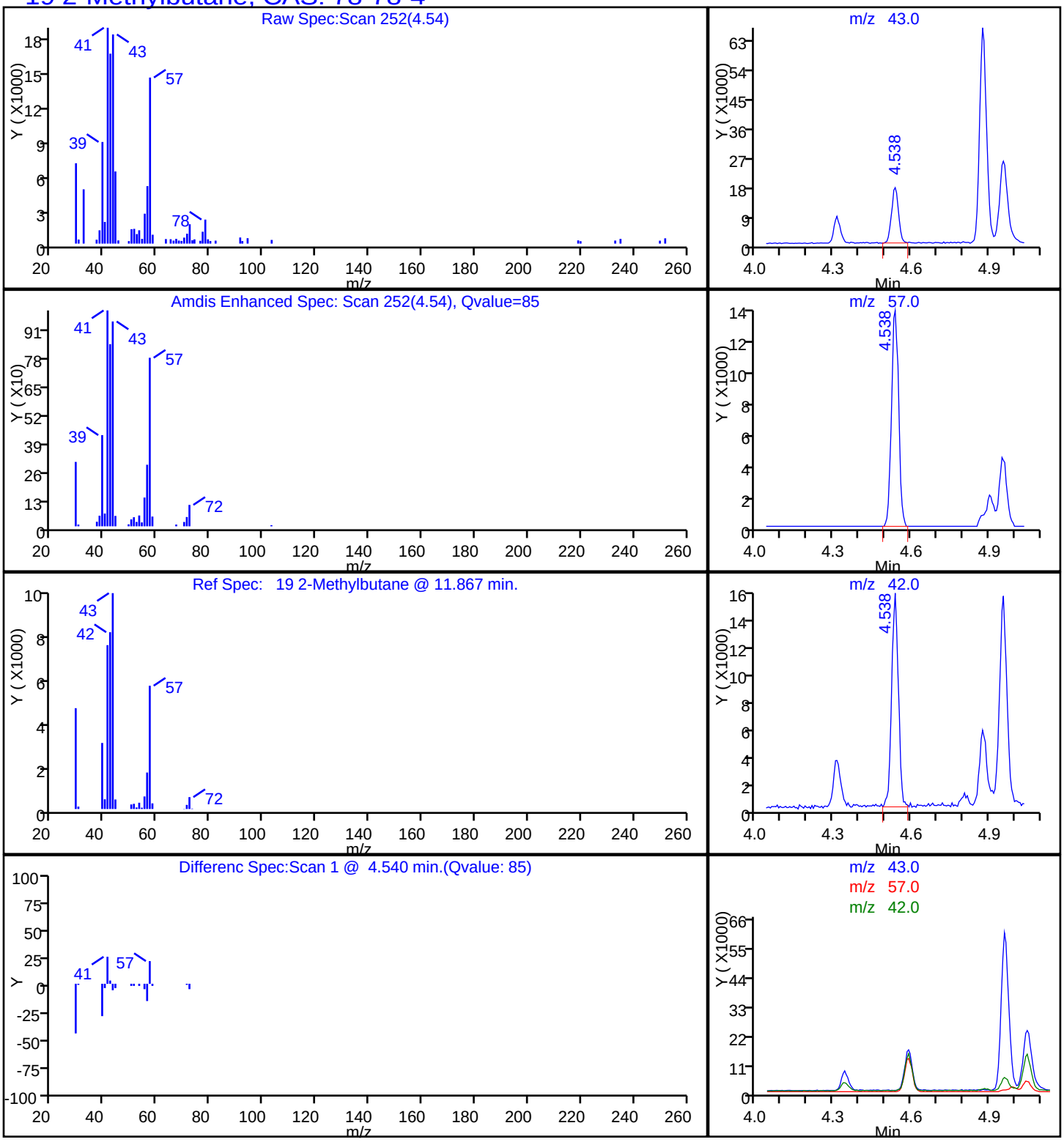
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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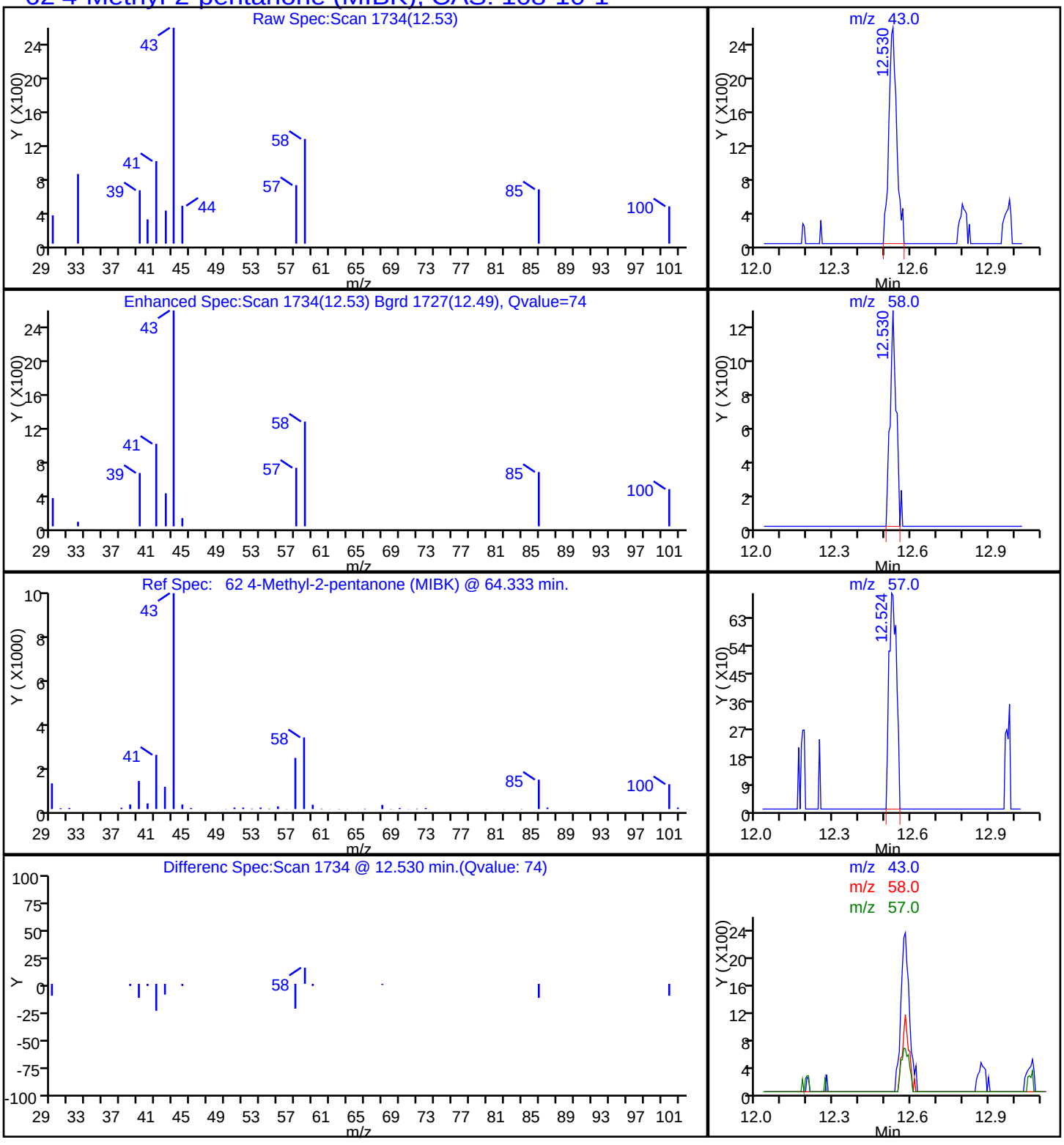
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
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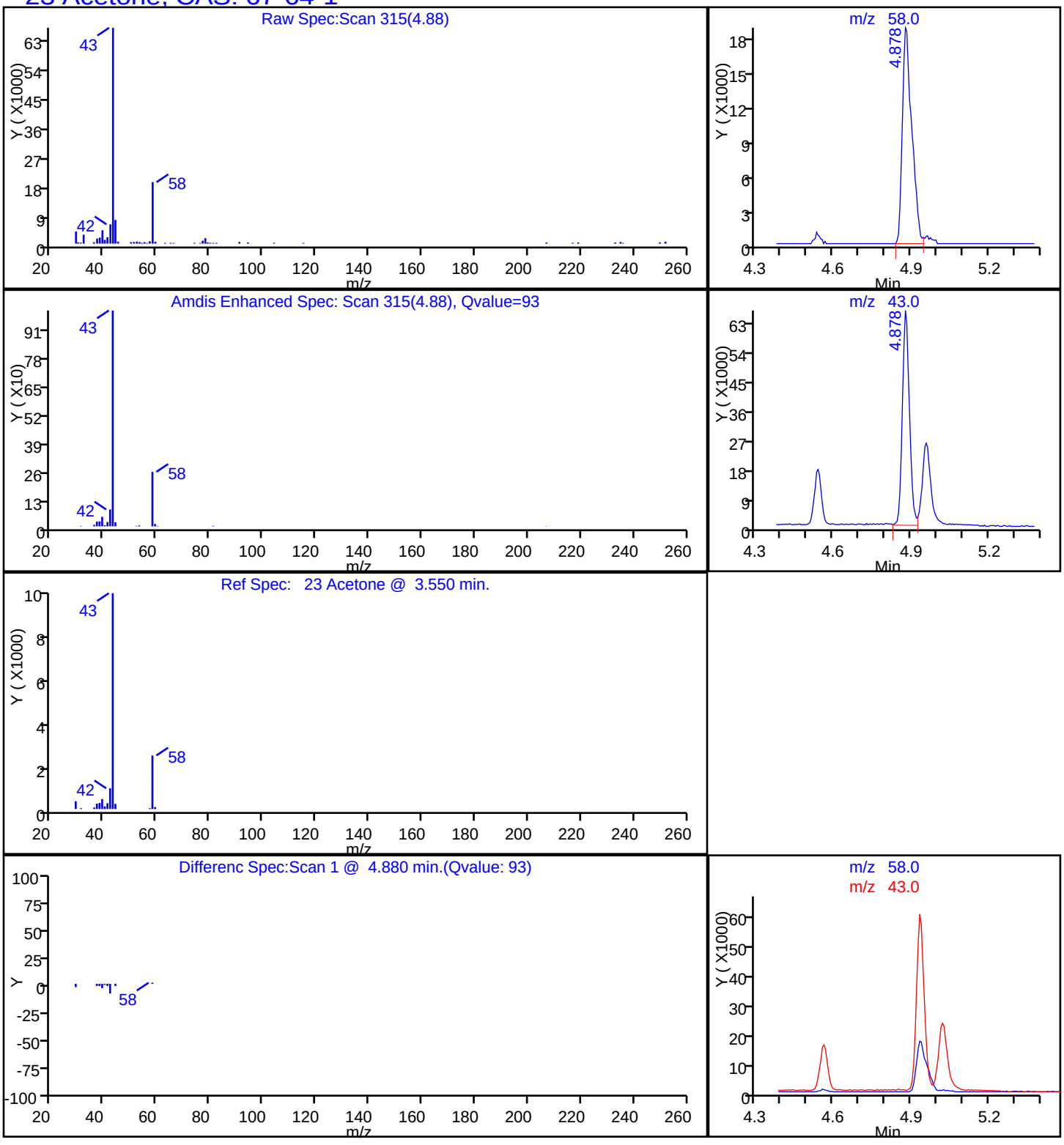
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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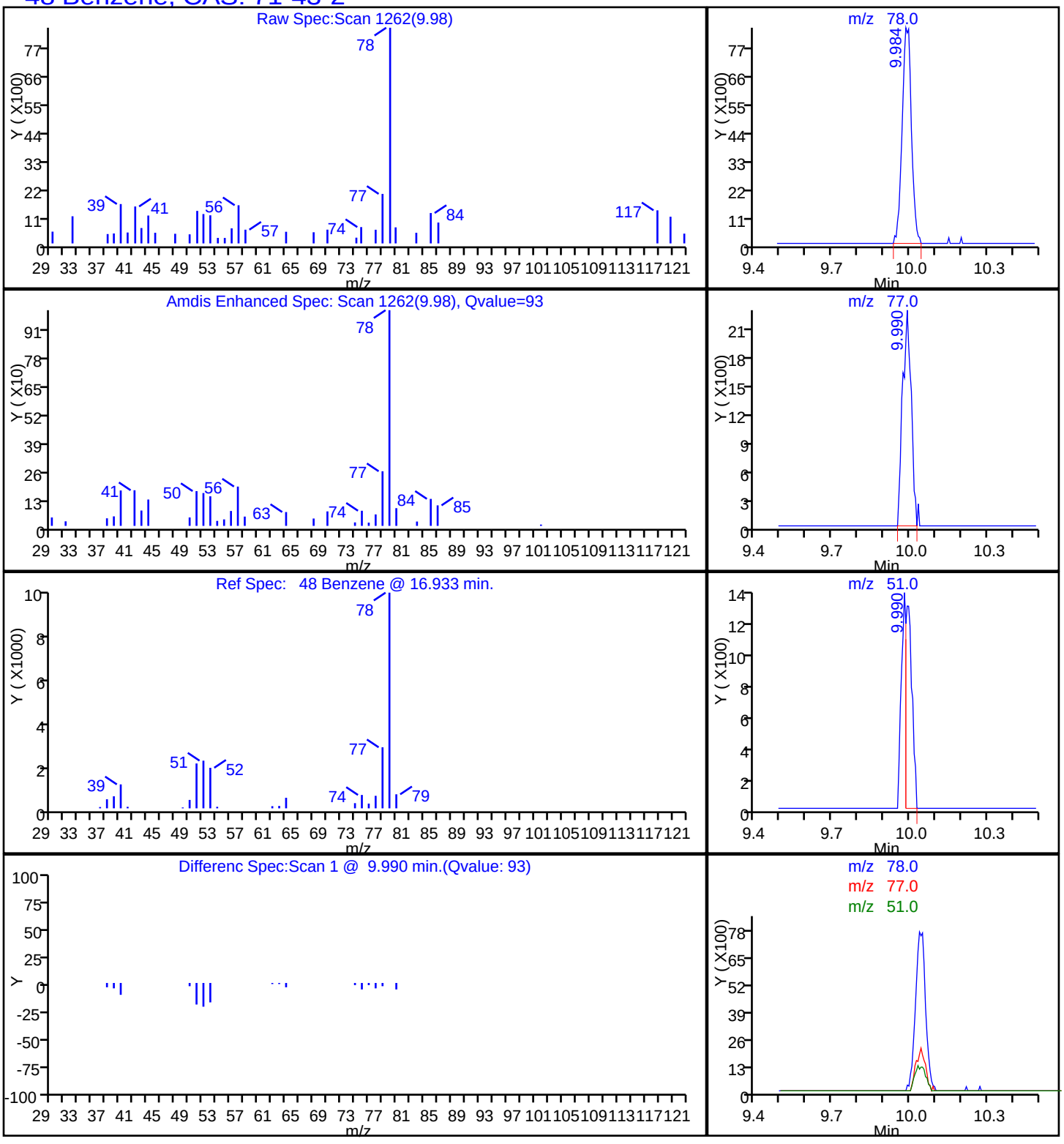
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D		
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8
Client ID:	PCV-AMB7		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date: 20-Mar-2014 20:16:30 Instrument ID: ME

Lims ID: 140-1060-A-8 Lab Sample ID: 140-1060-8

Client ID: PCV-AMB7

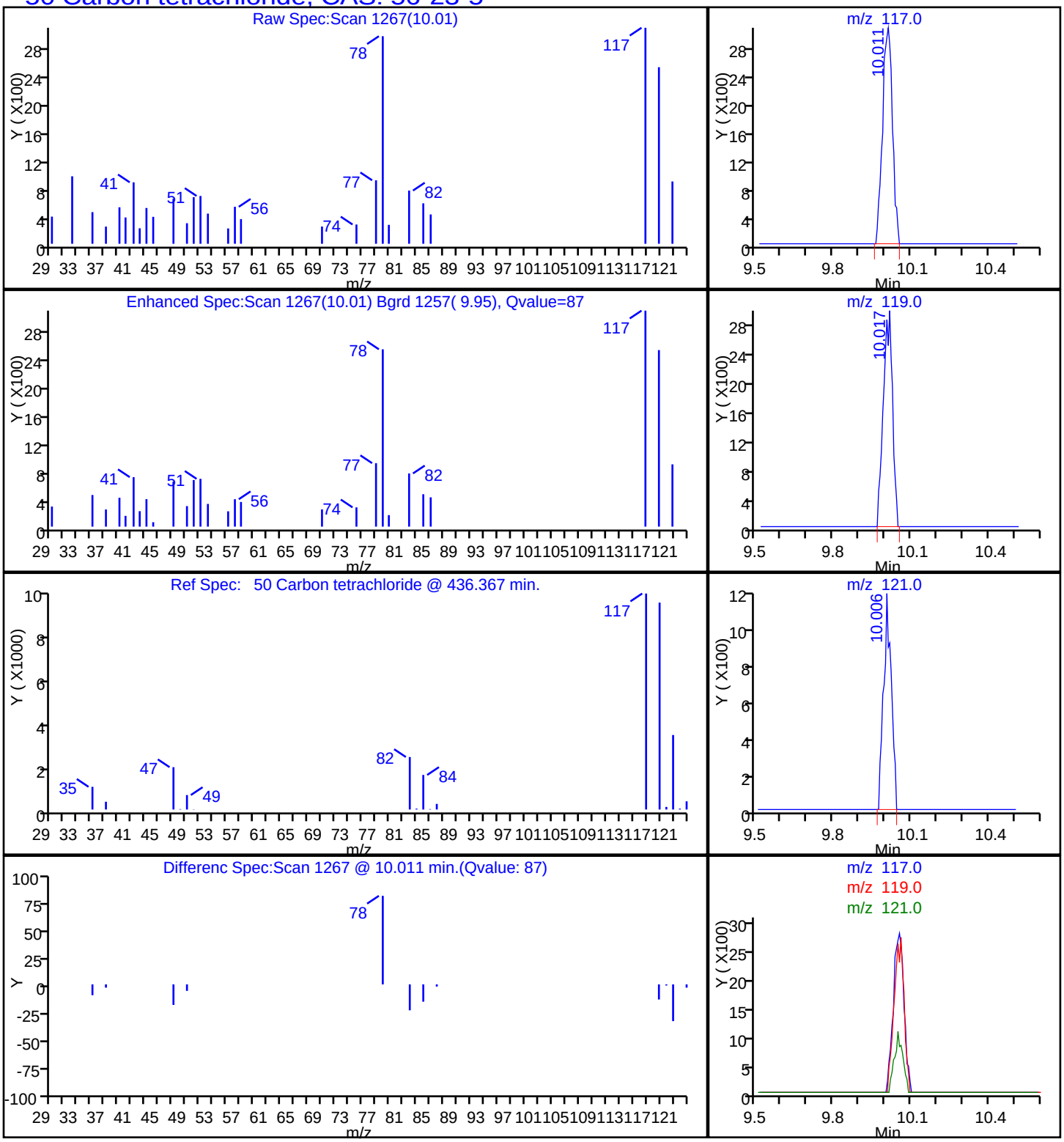
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date: 20-Mar-2014 20:16:30 Instrument ID: ME

Lims ID: 140-1060-A-8 Lab Sample ID: 140-1060-8

Client ID: PCV-AMB7

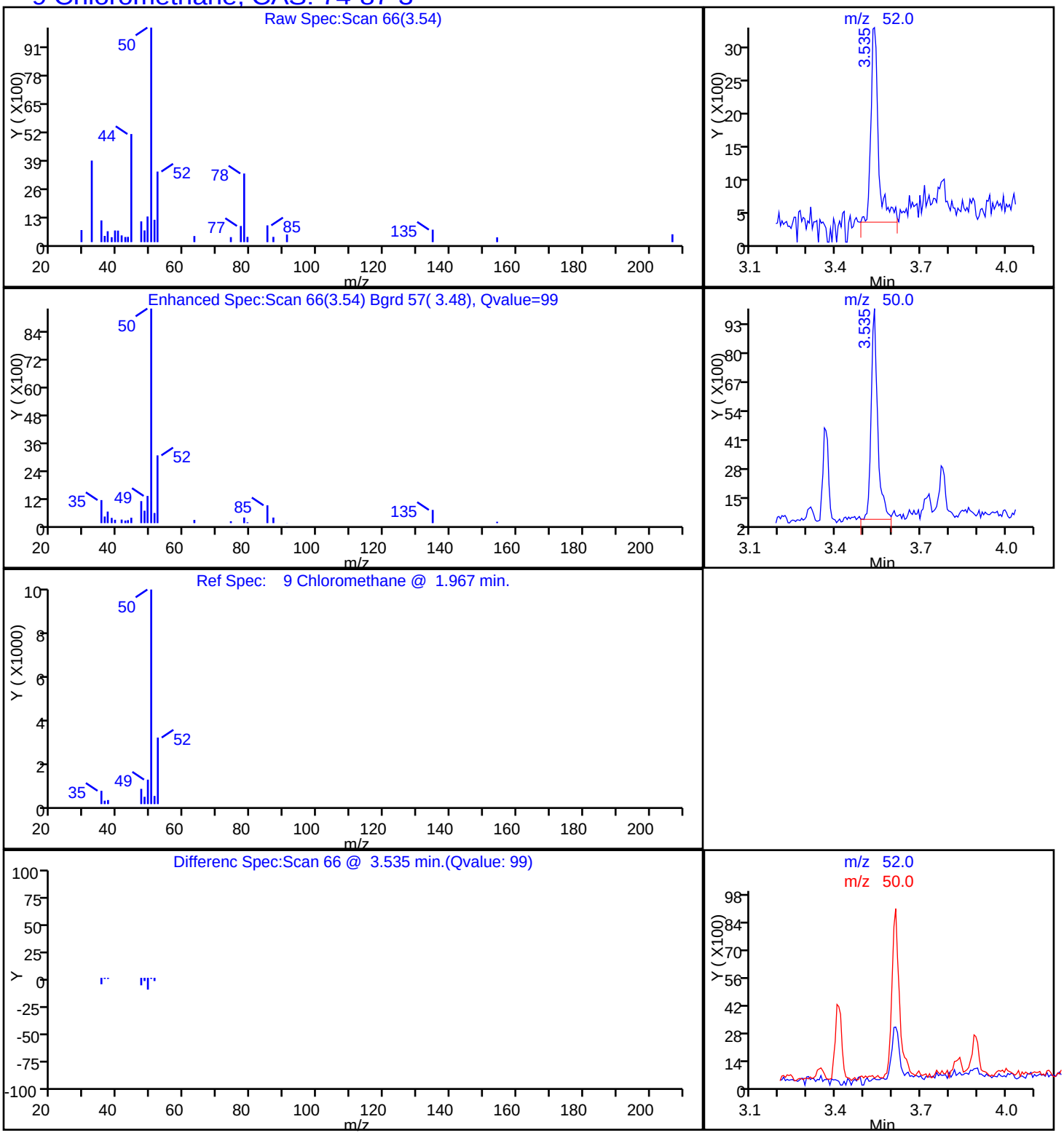
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

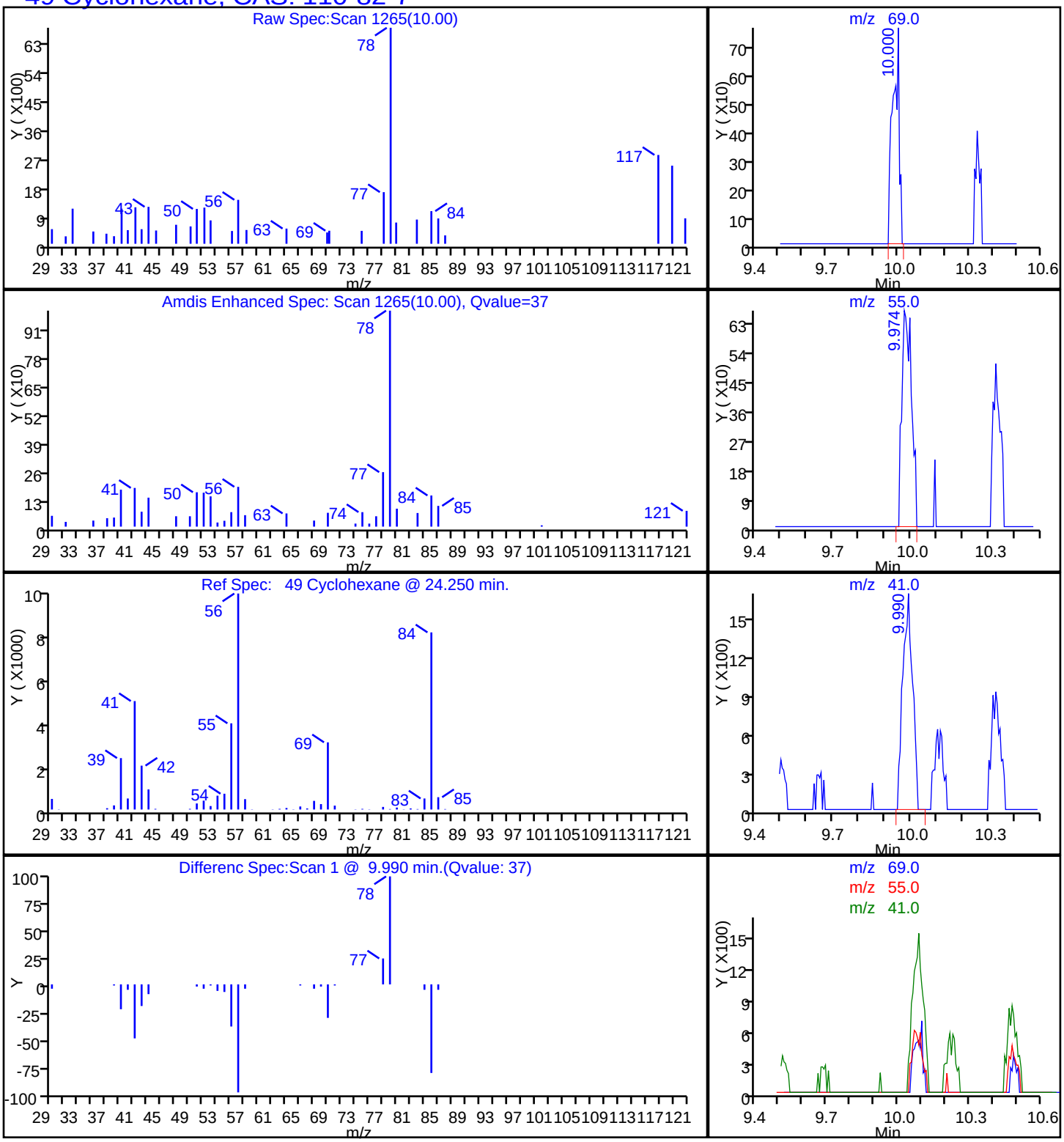
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

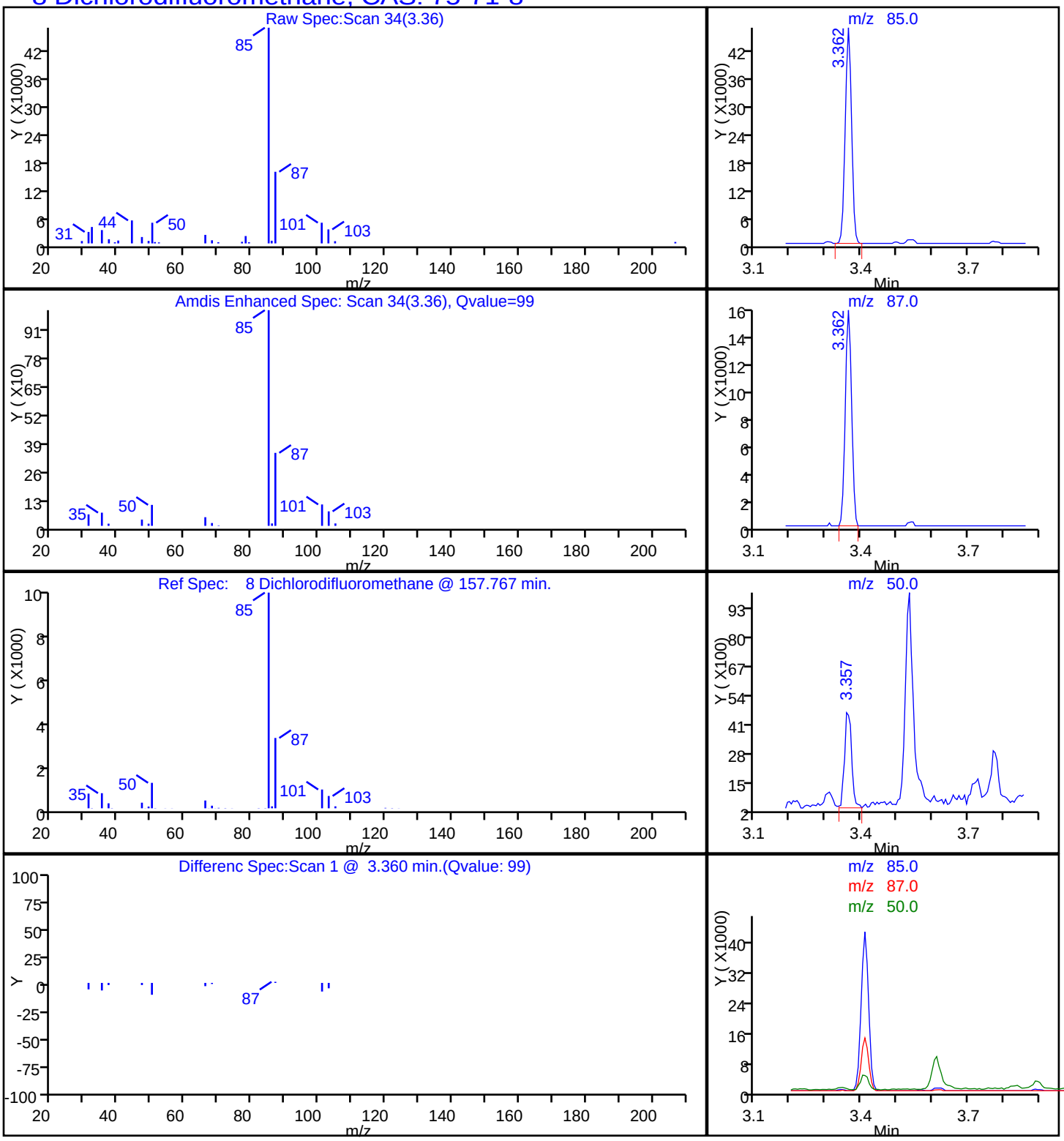
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

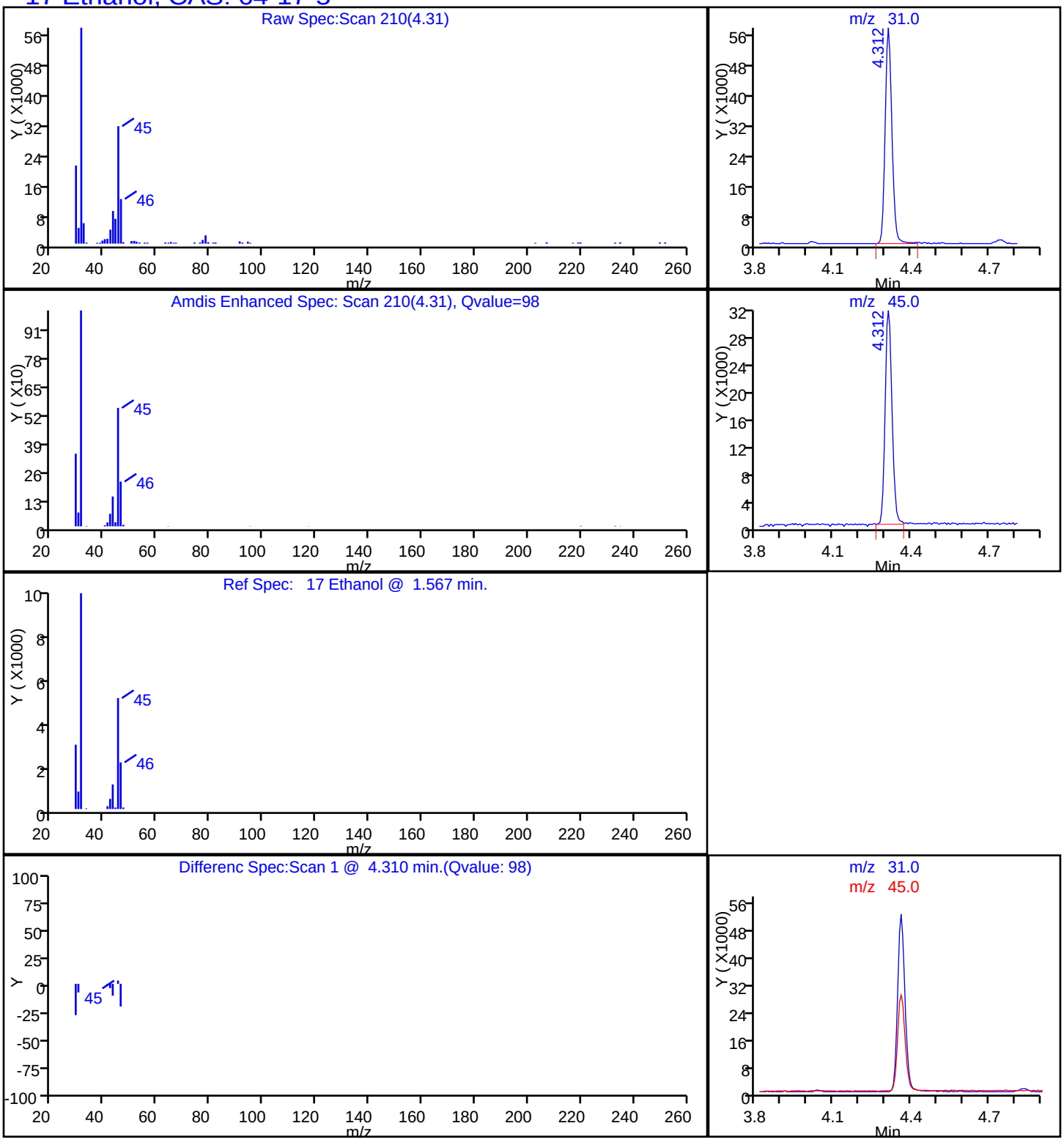


Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

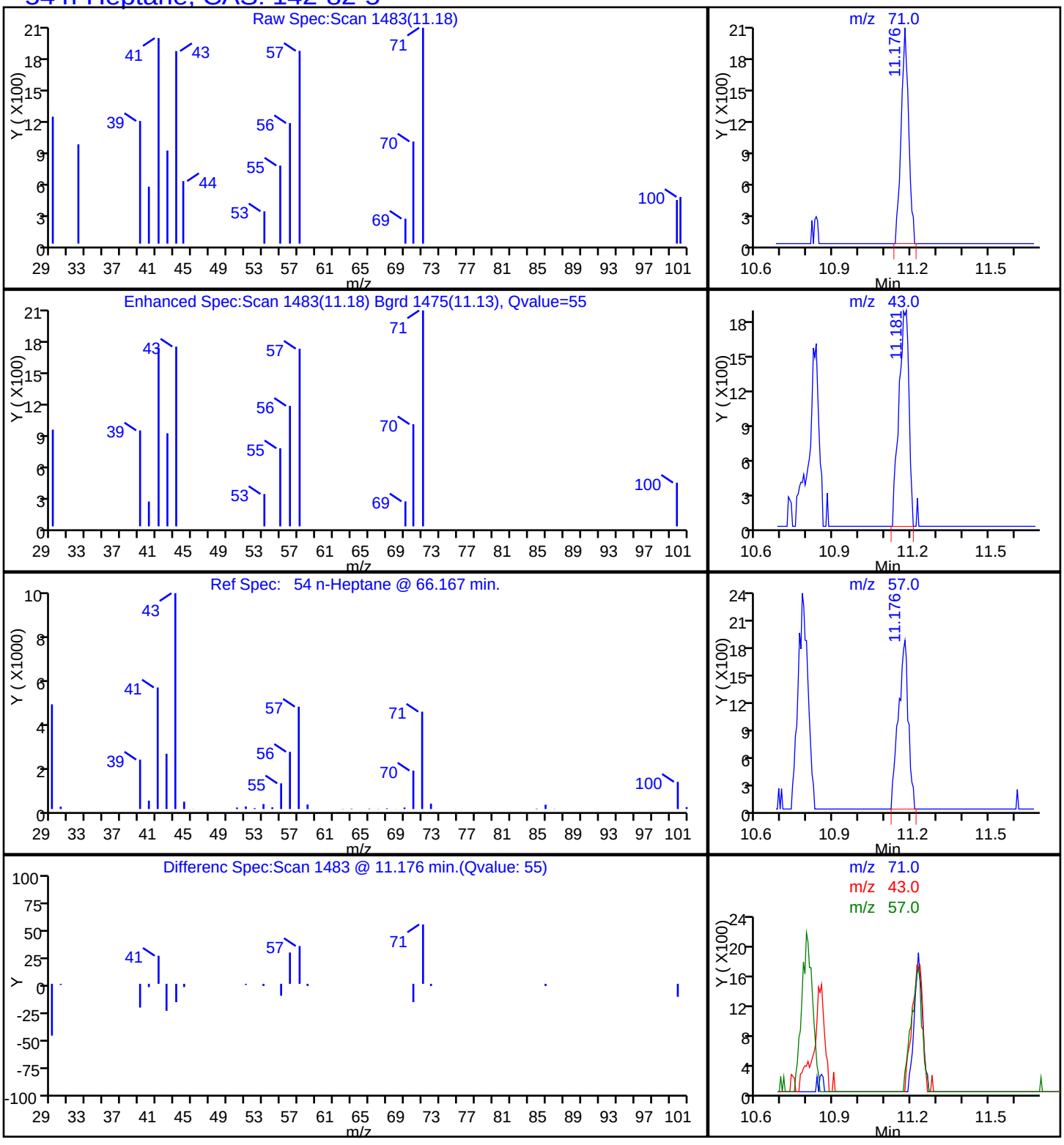


Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

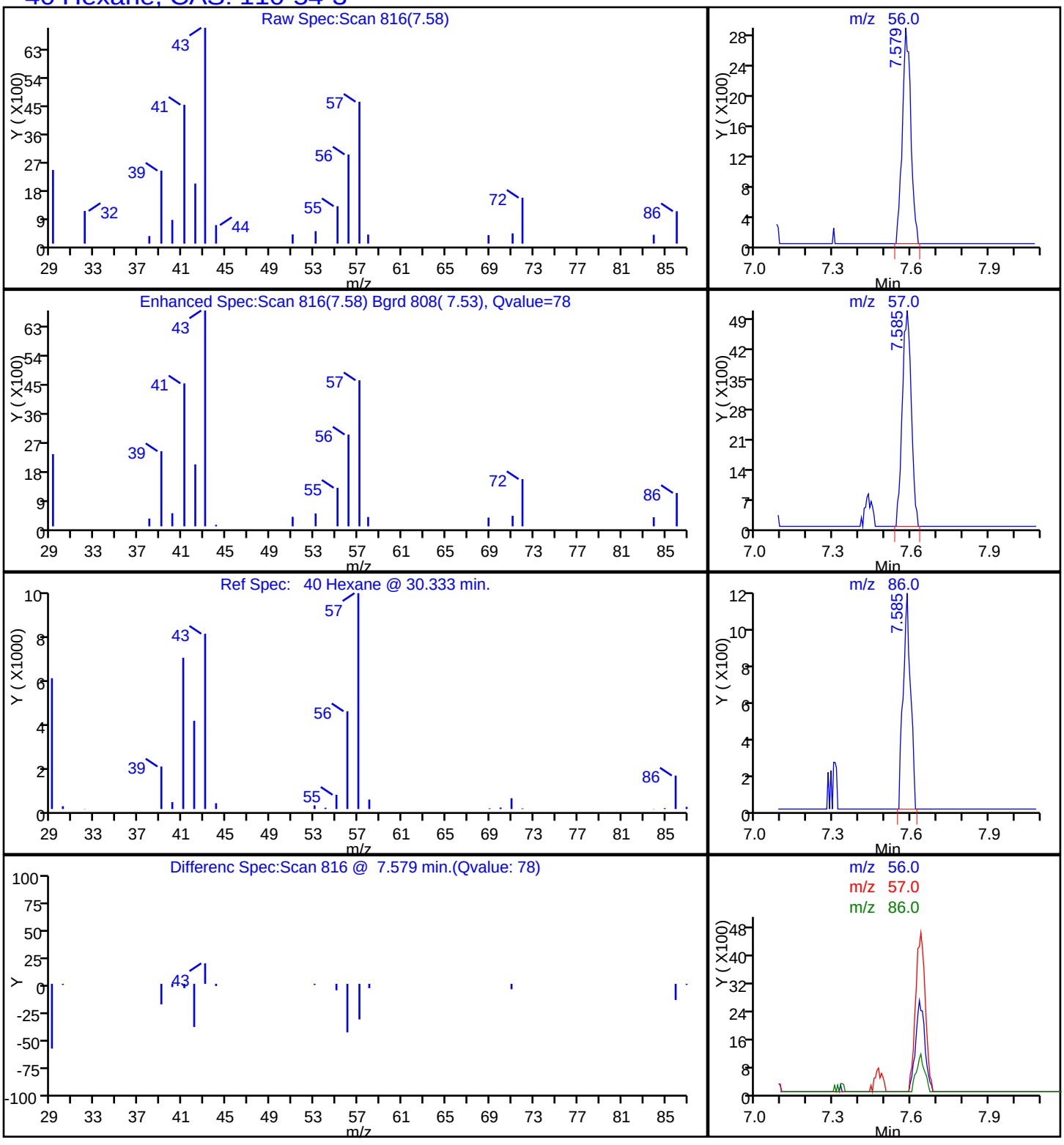


Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

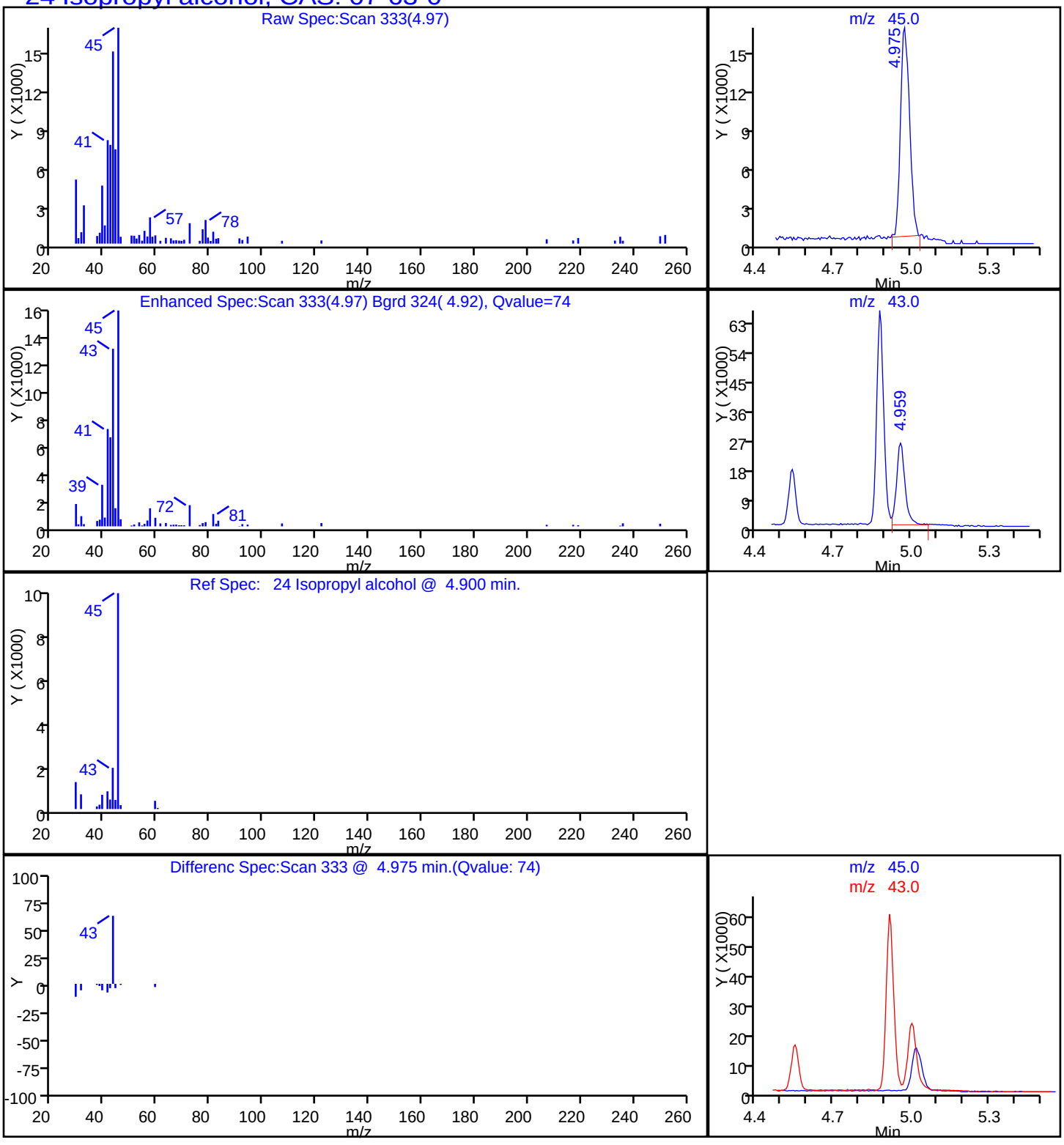


Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D				
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



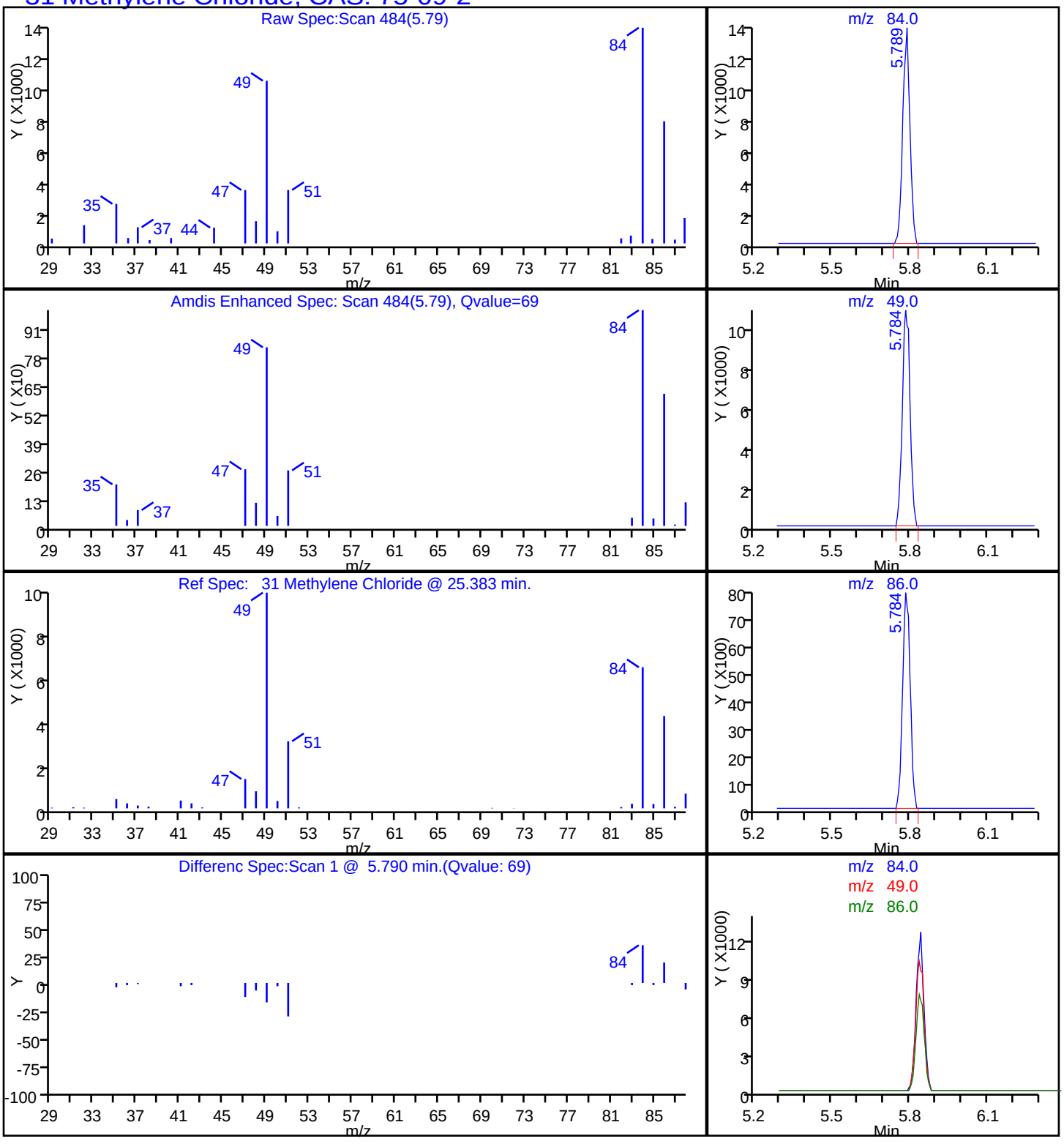
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



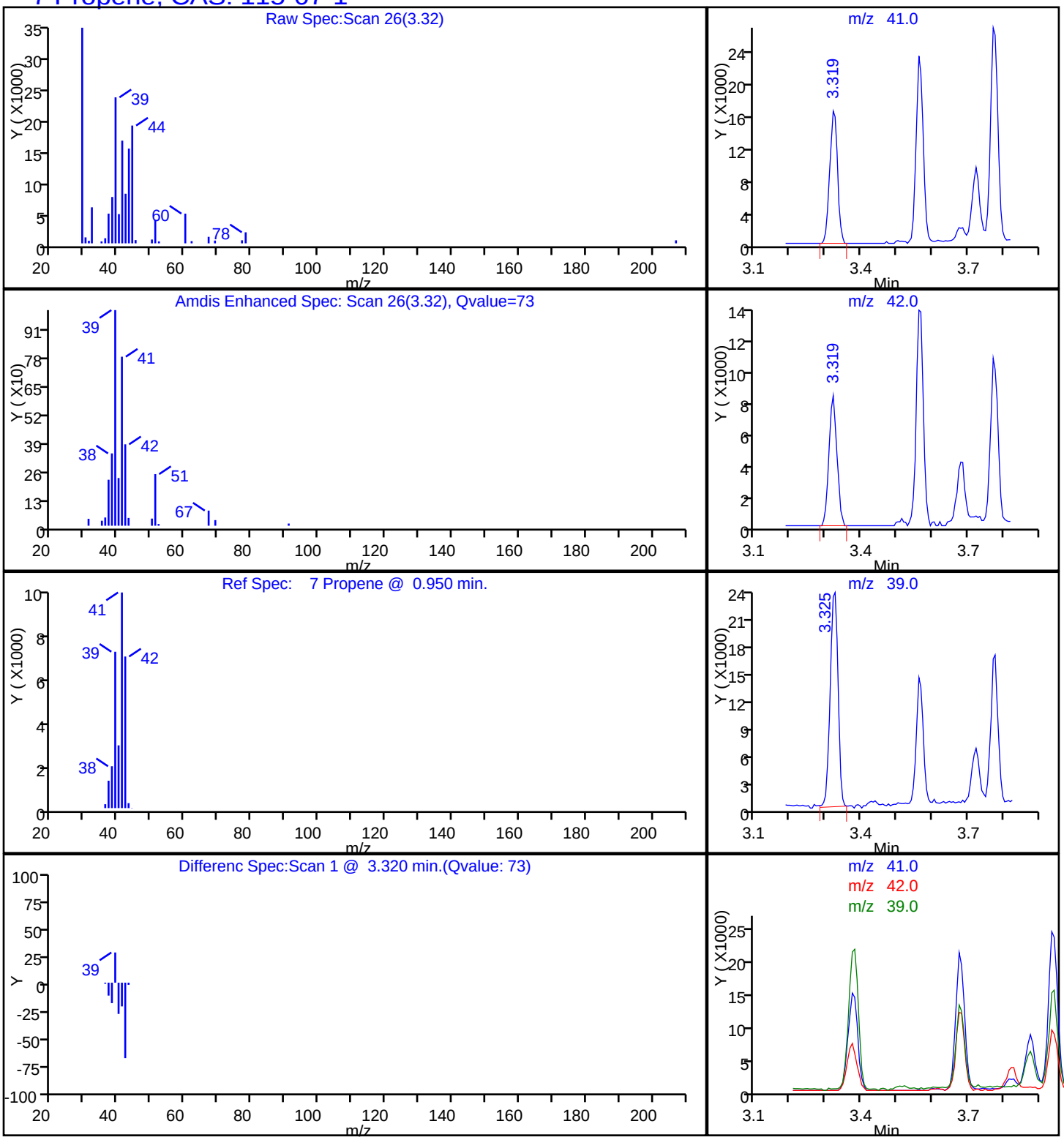
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8
Client ID:	PCV-AMB7		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



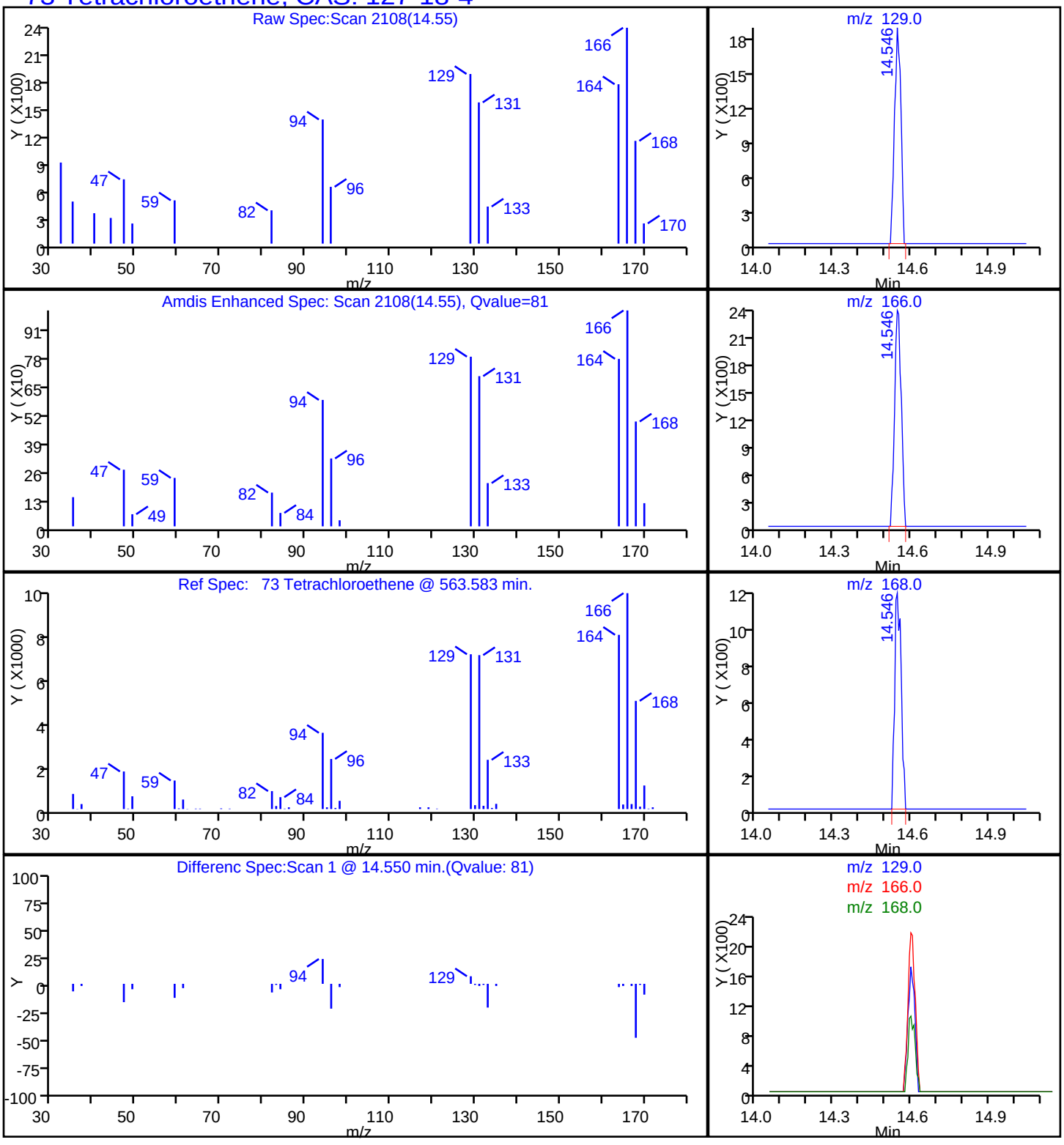
Report Date: 21-Mar-2014 09:34:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8
Client ID:	PCV-AMB7		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



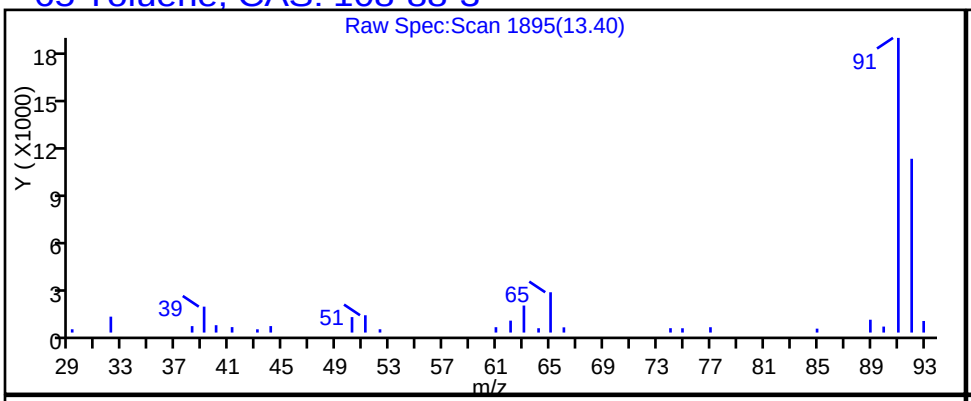
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

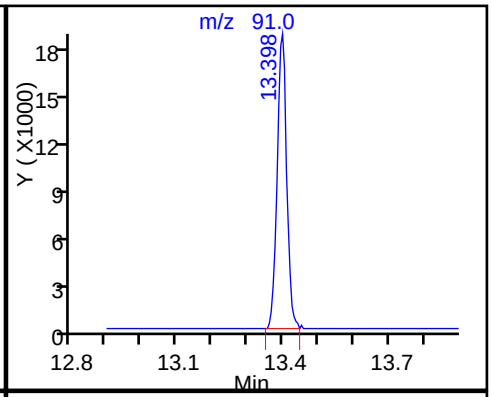
TestAmerica Knoxville

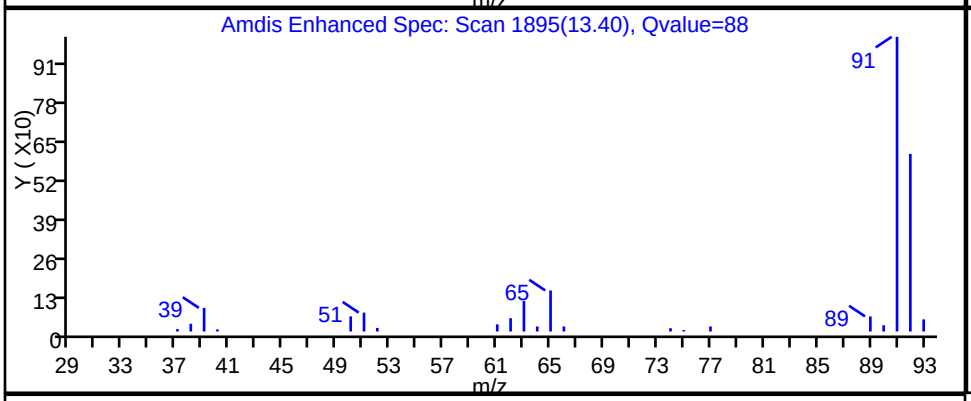
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

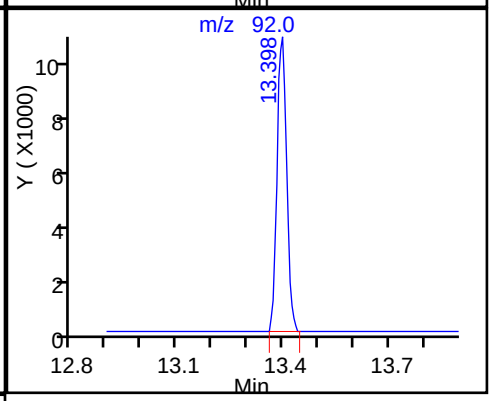
Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8
Client ID:	PCV-AMB7		
Operator ID:	7126	ALS Bottle#:	6 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

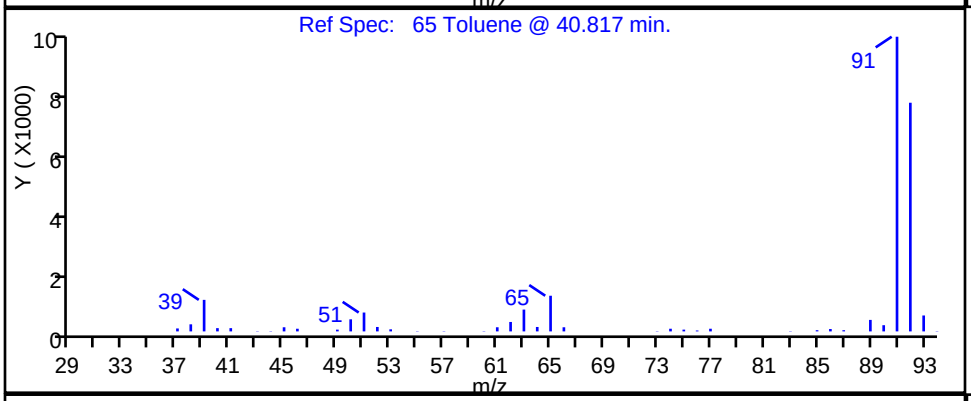
65 Toluene, CAS: 108-88-3

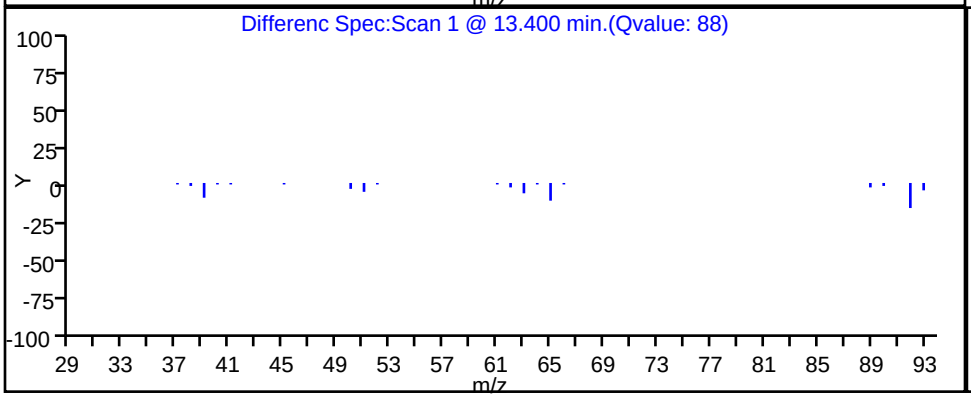


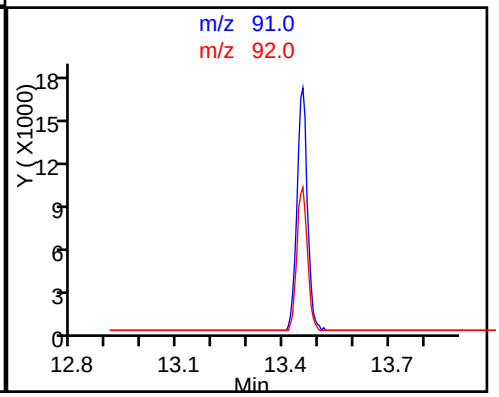












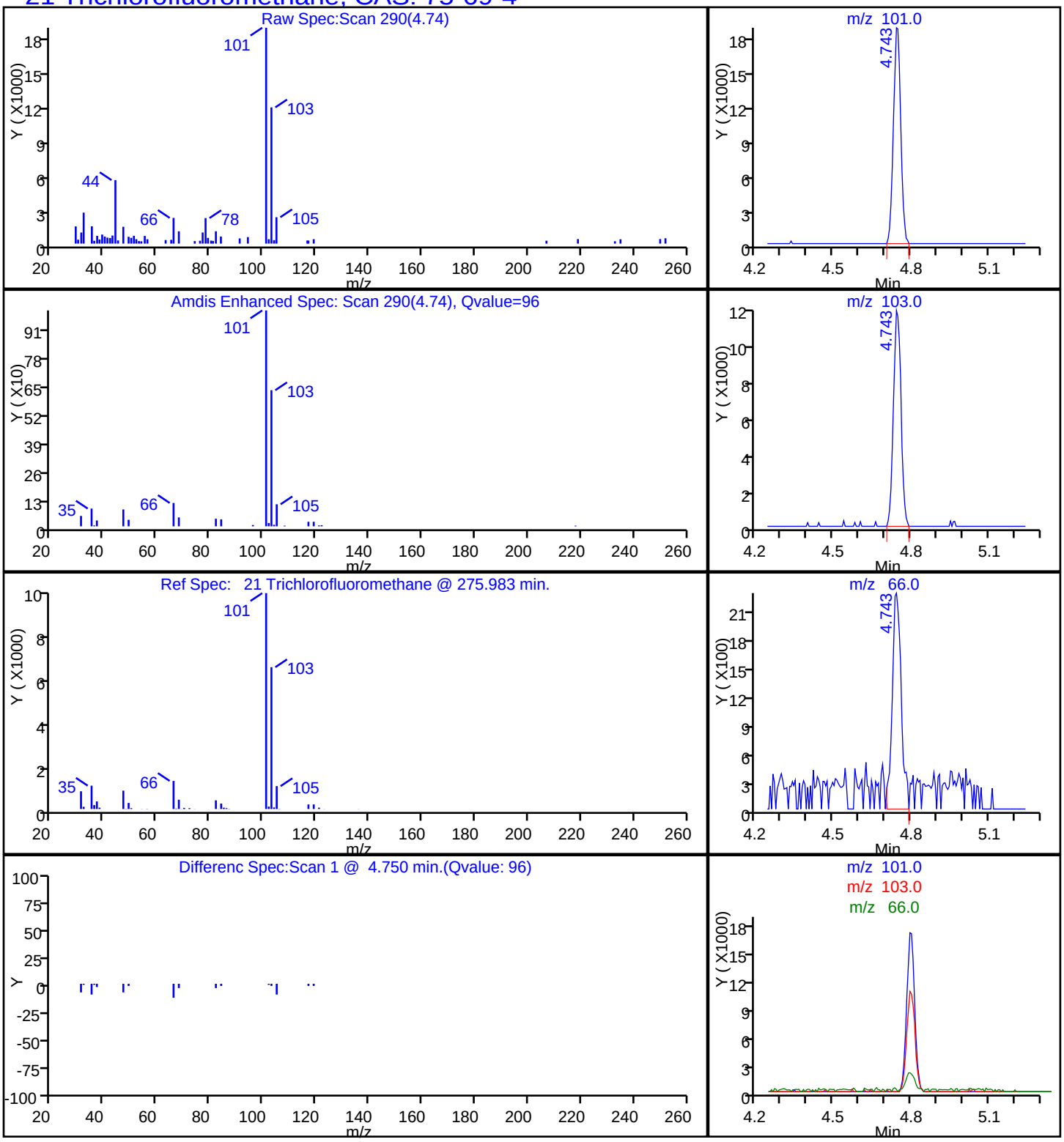
Report Date: 21-Mar-2014 09:34:45 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P106.D

Injection Date:	20-Mar-2014 20:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-8	Lab Sample ID:	140-1060-8		
Client ID:	PCV-AMB7				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.081	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.097	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.054	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.20	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.85		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.072	J	0.50	0.045
67-64-1	Acetone	58.08	2.1	J	5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.045	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.088	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.060	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.48		0.20	0.068
64-17-5	Ethanol	46.07	11		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.051	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.6		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.85		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.41		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.24		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.62	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.22	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.60	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.29	J	2.0	0.18
67-64-1	Acetone	58.08	4.9	J	12	3.3
71-43-2	Benzene	78.11	0.74		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.17	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.55	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.29	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	20		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.21	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.42	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	3.0		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.8		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.91		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B17 Lab Sample ID: 140-1060-9

Matrix: Air Lab File ID: EC20P107.D

Analysis Method: TO-15 Date Collected: 03/14/2014 08:50

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D
Lims ID: 140-1060-A-9 Lab Sample ID: 140-1060-9
Client ID: PCV-IA1-B17
Sample Type: Client
Inject. Date: 20-Mar-2014 21:00:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-9
Misc. Info.: E032014,TO155,,140-0000533-011
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:35:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:35:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	273635	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1223429	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1124200	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	920185	3.74	
7 Propene	41	3.319	3.314	0.005	73	27582	0.4007	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	57936	0.1914	
9 Chloromethane	52	3.535	3.530	0.005	96	4907	0.2031	
13 Butadiene	54	3.772	3.772	0.0	29	2513	0.0390	
15 Bromomethane	94	4.074	4.080	-0.006	69	1816	0.0180	
17 Ethanol	31	4.312	4.317	-0.005	97	117360	4.29	
19 2-Methylbutane	43	4.538	4.538	0.0	86	32758	0.3418	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	35460	0.1168	
23 Acetone	58	4.878	4.883	-0.005	92	34027	0.8210	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	91	109038	1.02	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	82	6092	0.0324	
31 Methylene Chloride	84	5.784	5.789	-0.005	70	26713	0.3416	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	86	3669	0.0819	
40 Hexane	56	7.574	7.585	-0.011	72	3496	0.0480	
43 Chloroform	83	8.351	8.356	-0.005	18	5628	0.0240	
48 Benzene	78	9.984	9.995	-0.011	95	22817	0.0927	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	90	8308	0.0351	
53 Isooctane	57	10.783	10.788	-0.005	74	8227	0.0216	
54 n-Heptane	71	11.171	11.182	-0.011	59	1899	0.0204	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	77	4148	0.0286	
65 Toluene	91	13.392	13.398	-0.006	89	29043	0.0964	
73 Tetrachloroethene	129	14.546	14.552	-0.006	92	21147	0.1649	

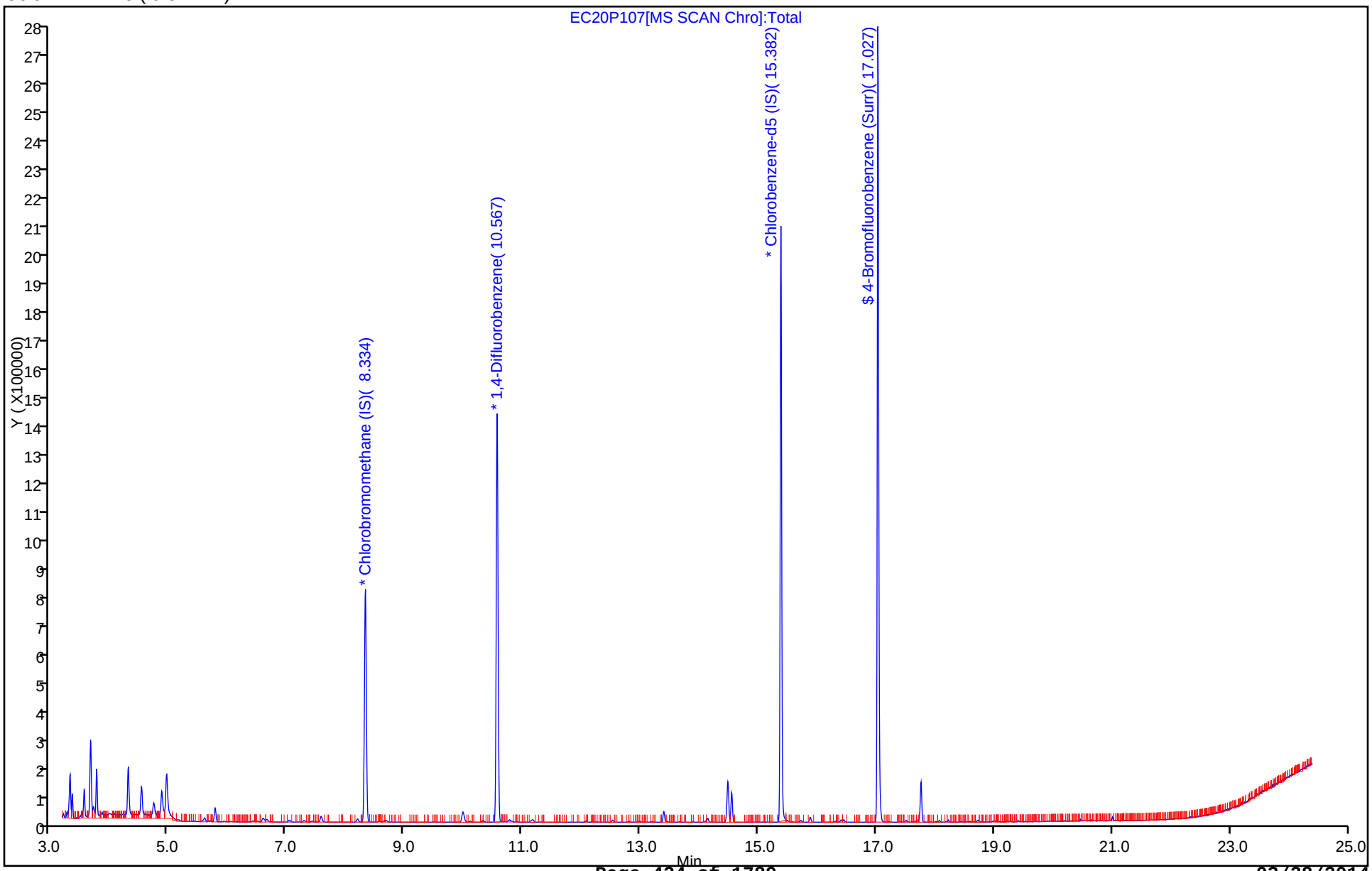
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9	Worklist Smp#:	11
Client ID:	PCV-IA1-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date: 20-Mar-2014 21:00:30 Instrument ID: ME

Lims ID: 140-1060-A-9 Lab Sample ID: 140-1060-9

Client ID: PCV-IA1-B17

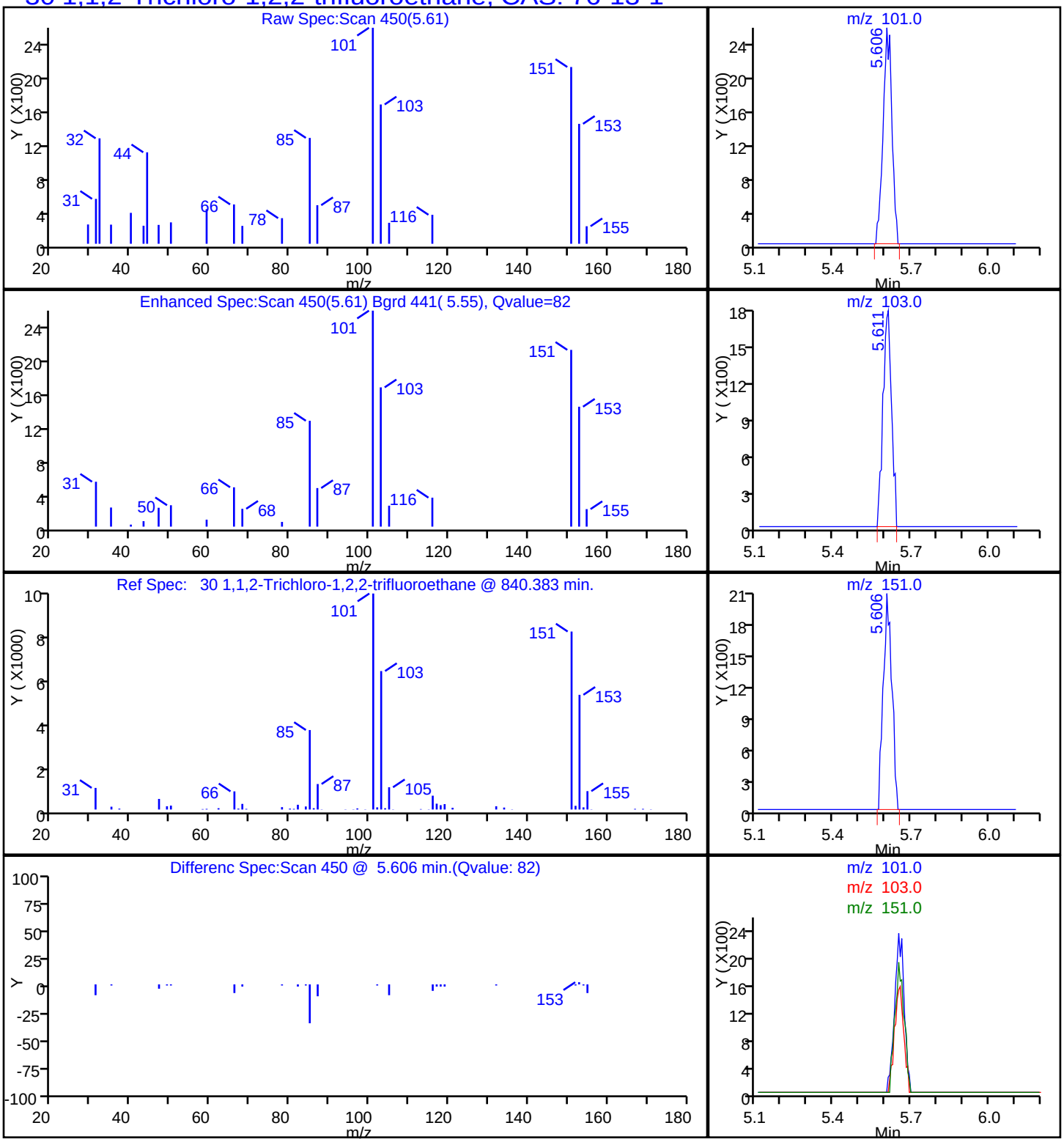
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



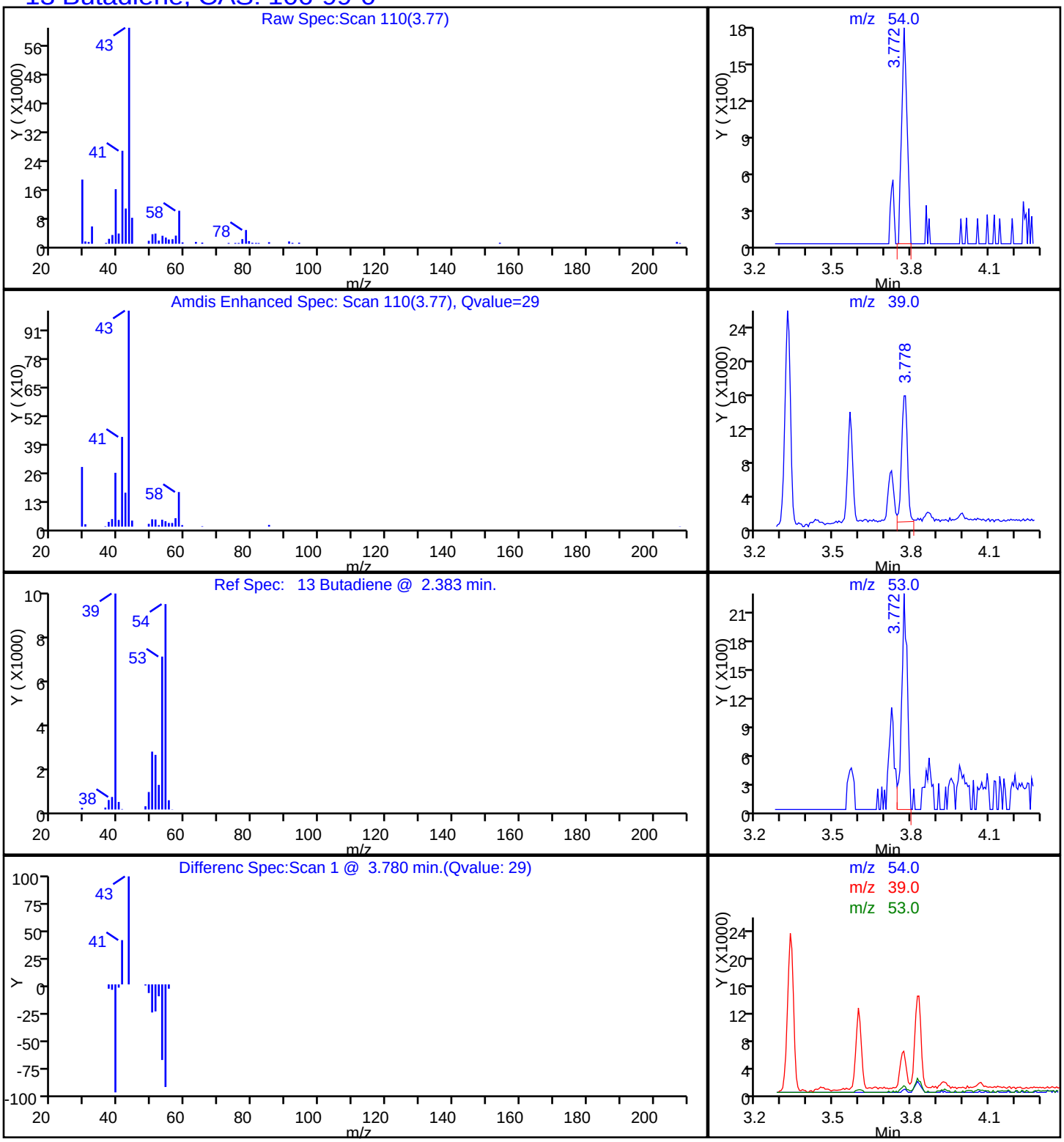
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



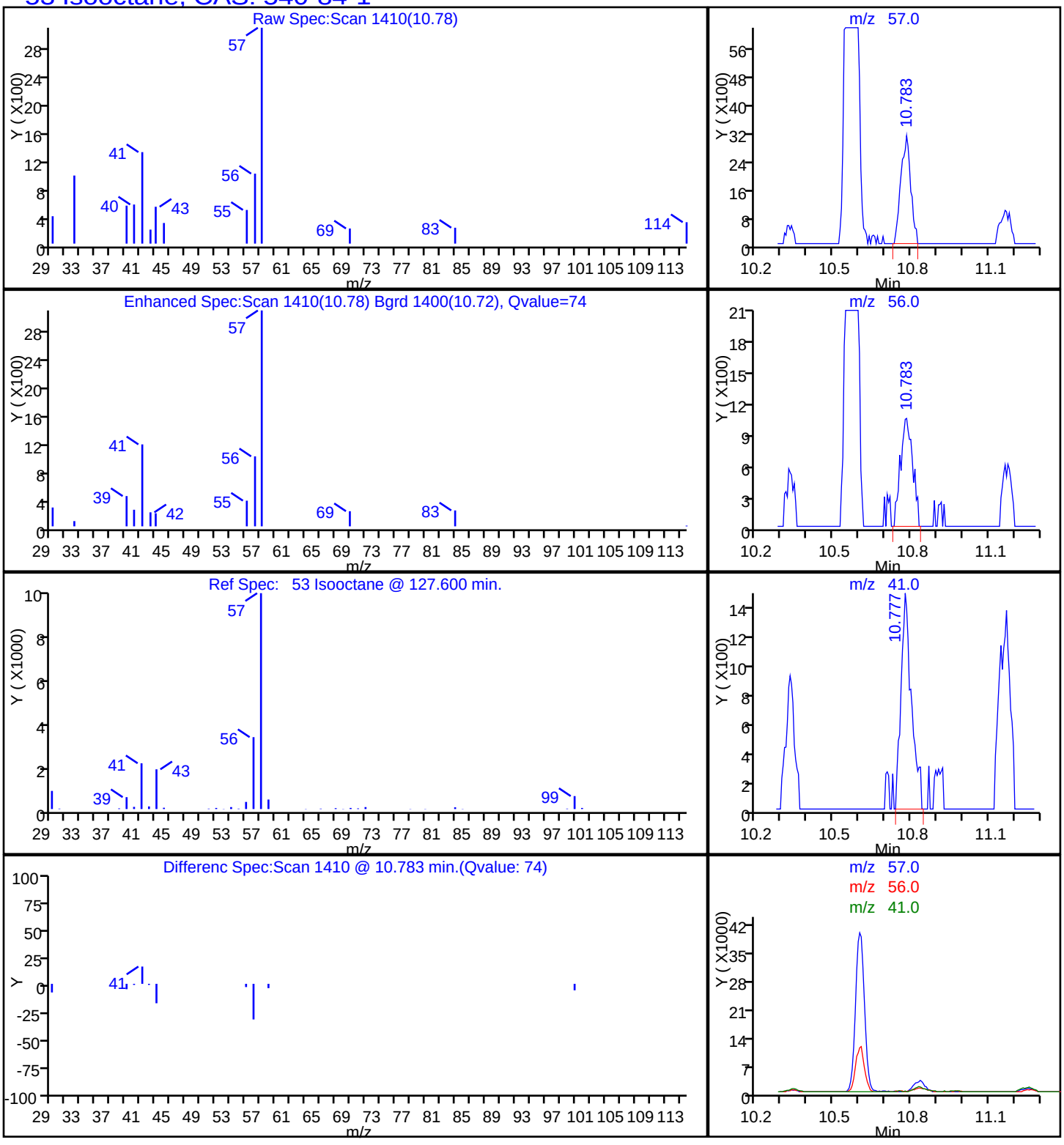
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9		
Client ID:	PCV-IA1-B17				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



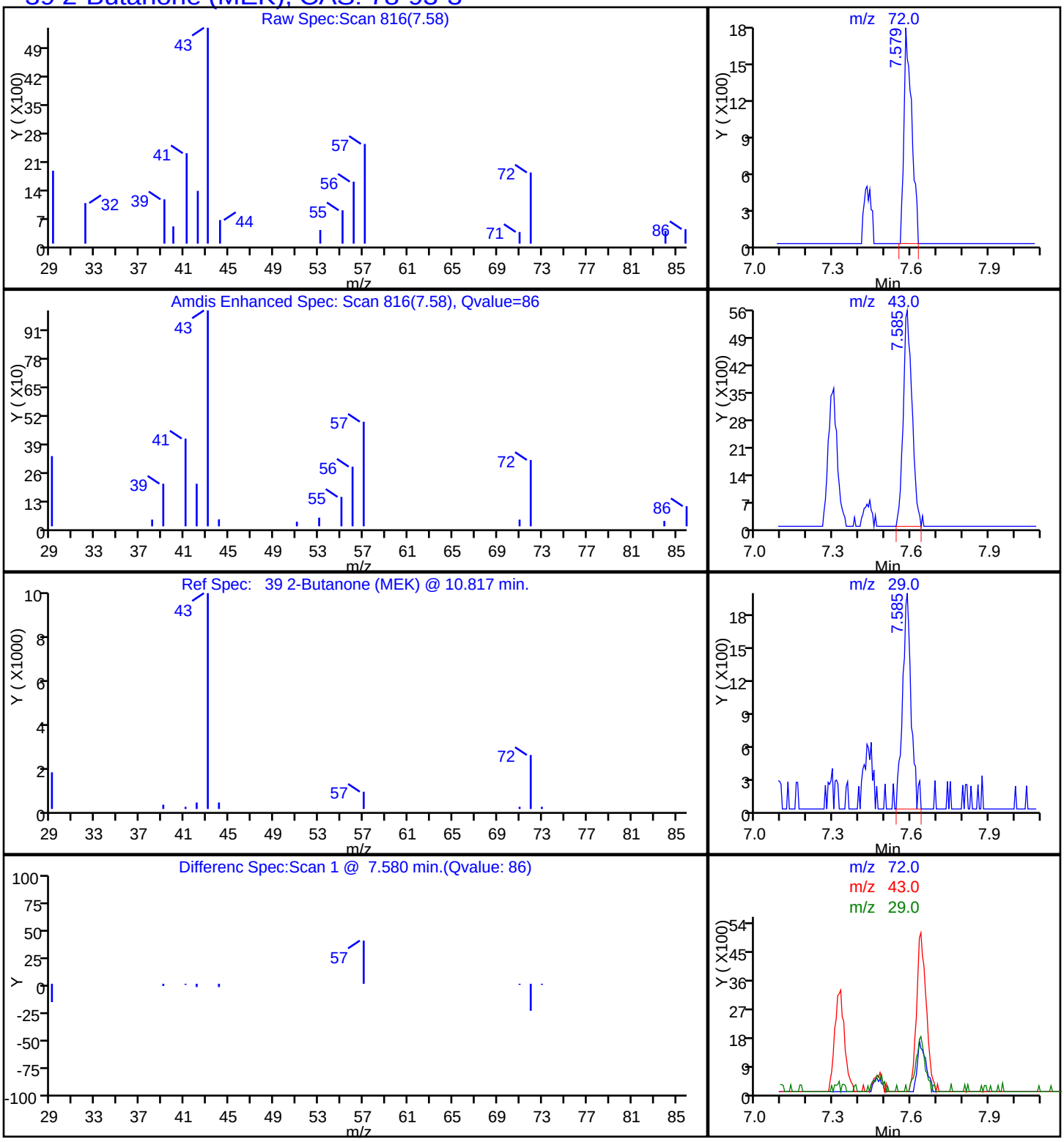
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



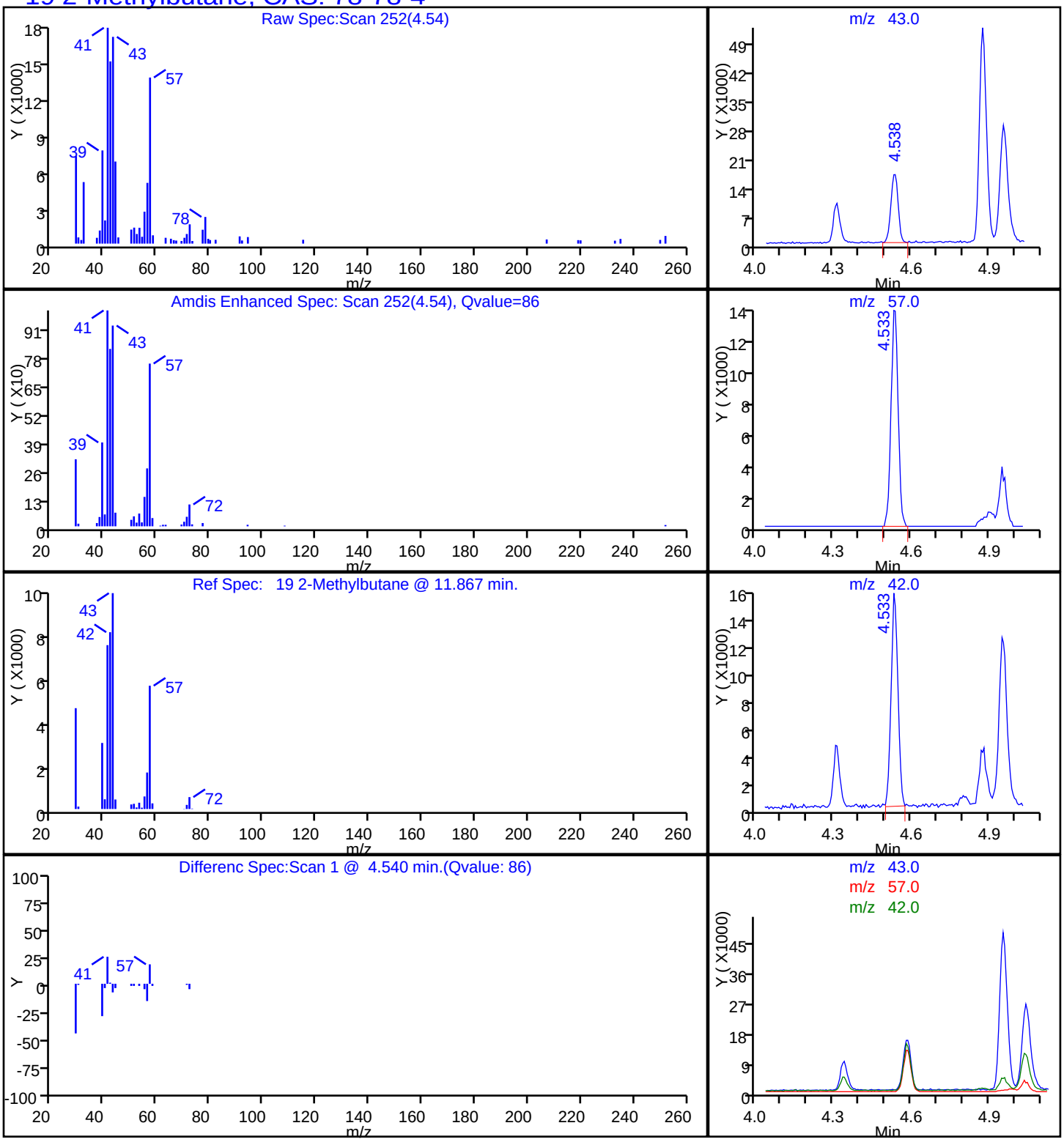
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9		
Client ID:	PCV-IA1-B17				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



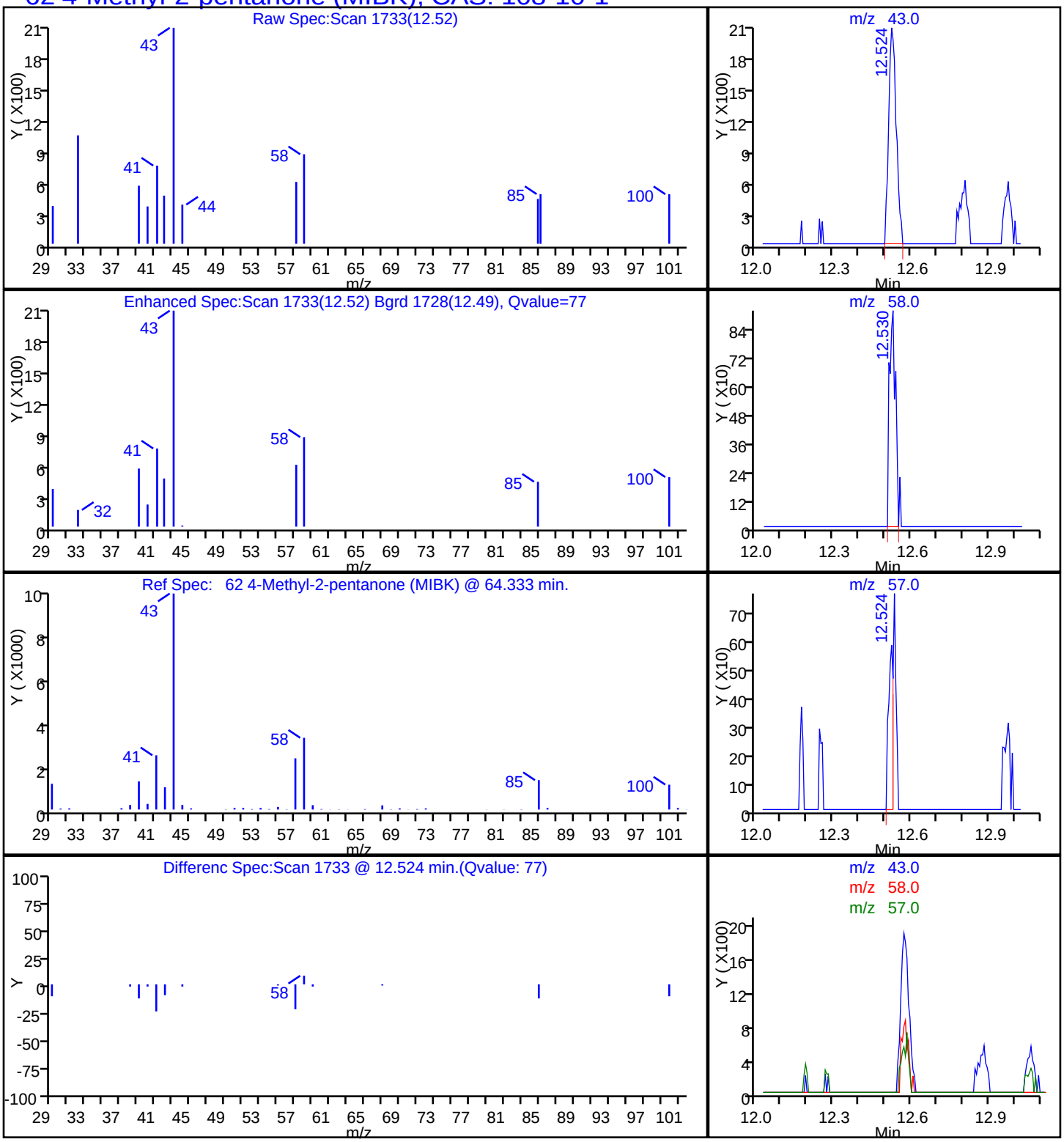
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



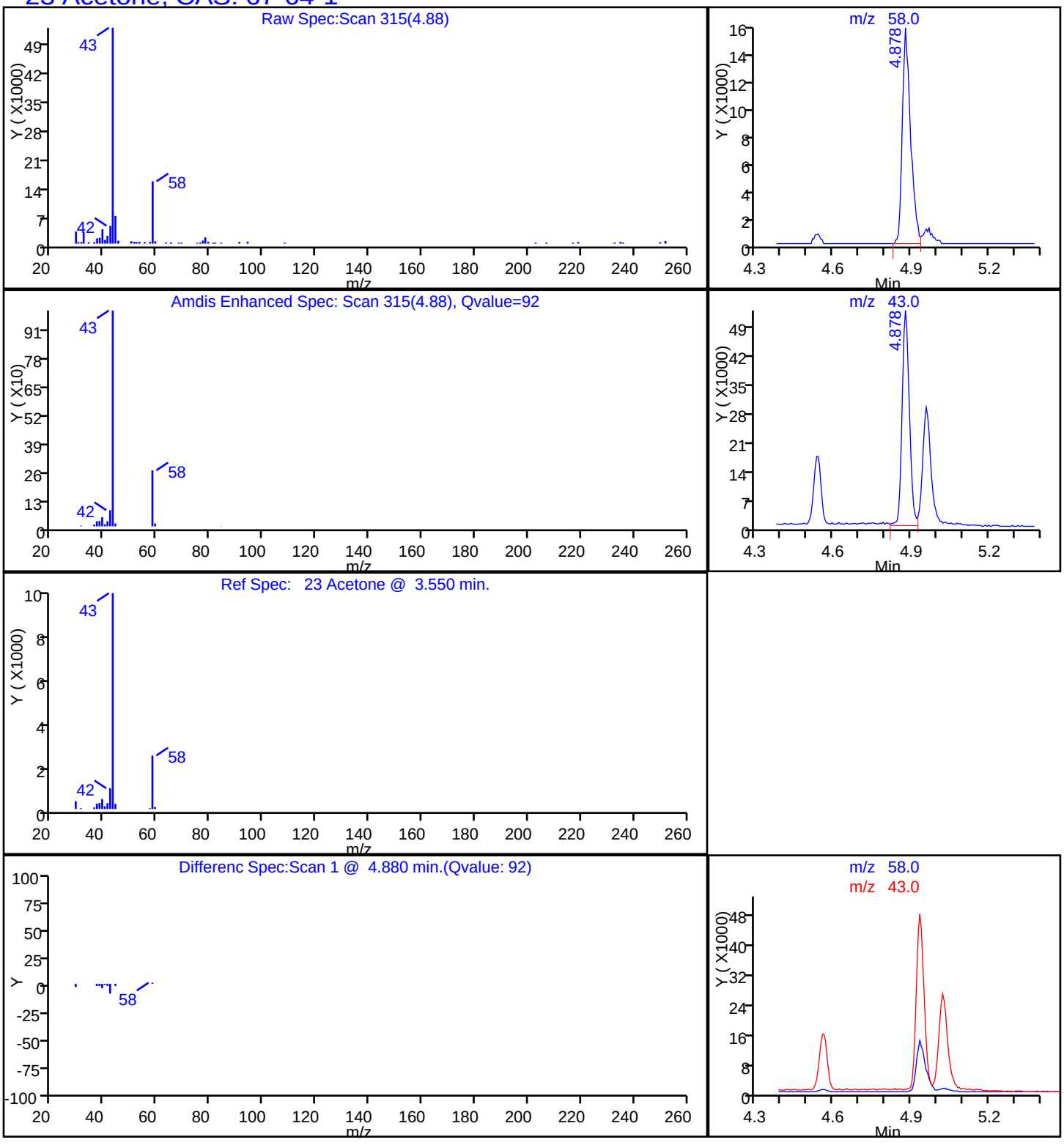
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



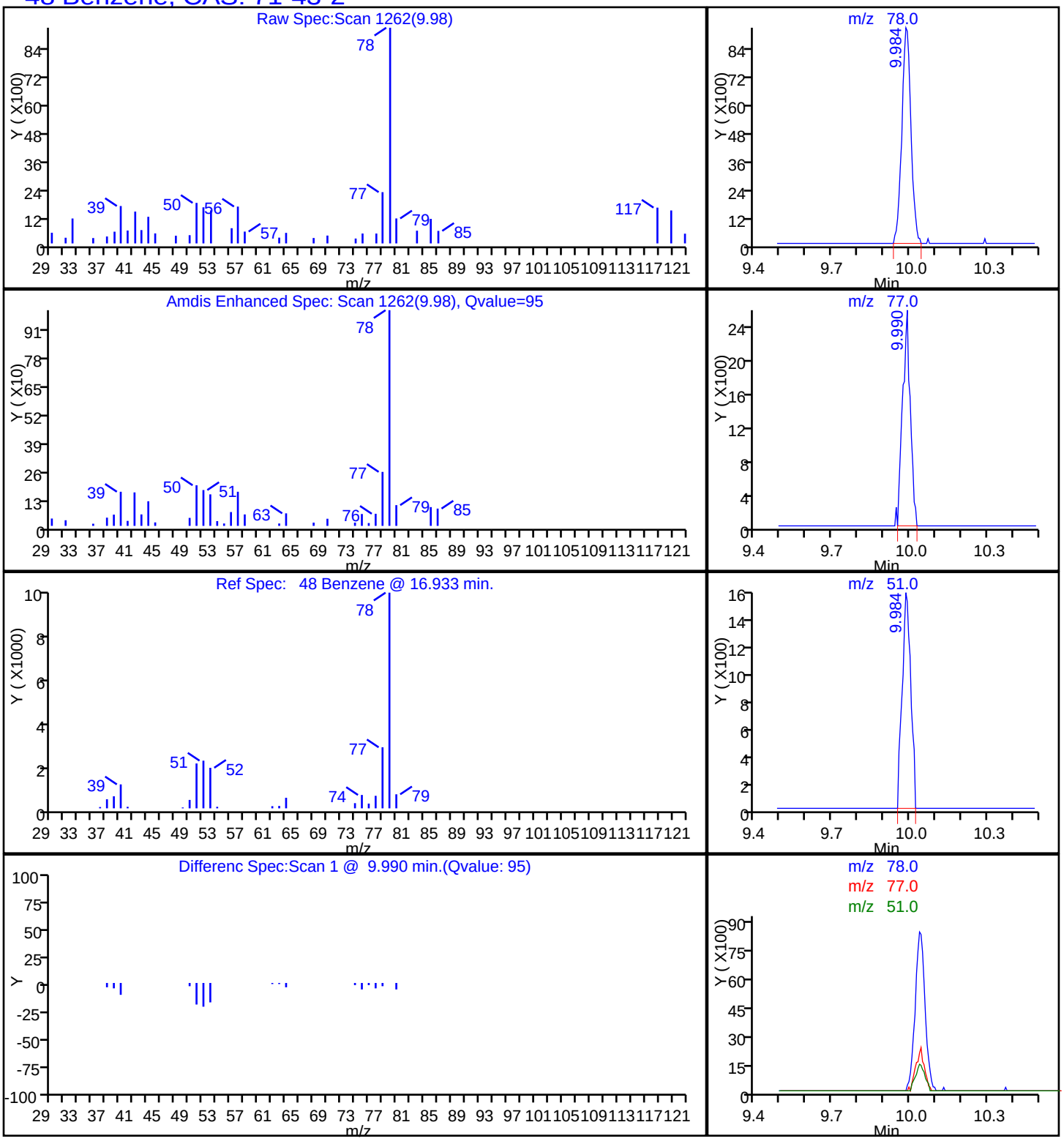
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



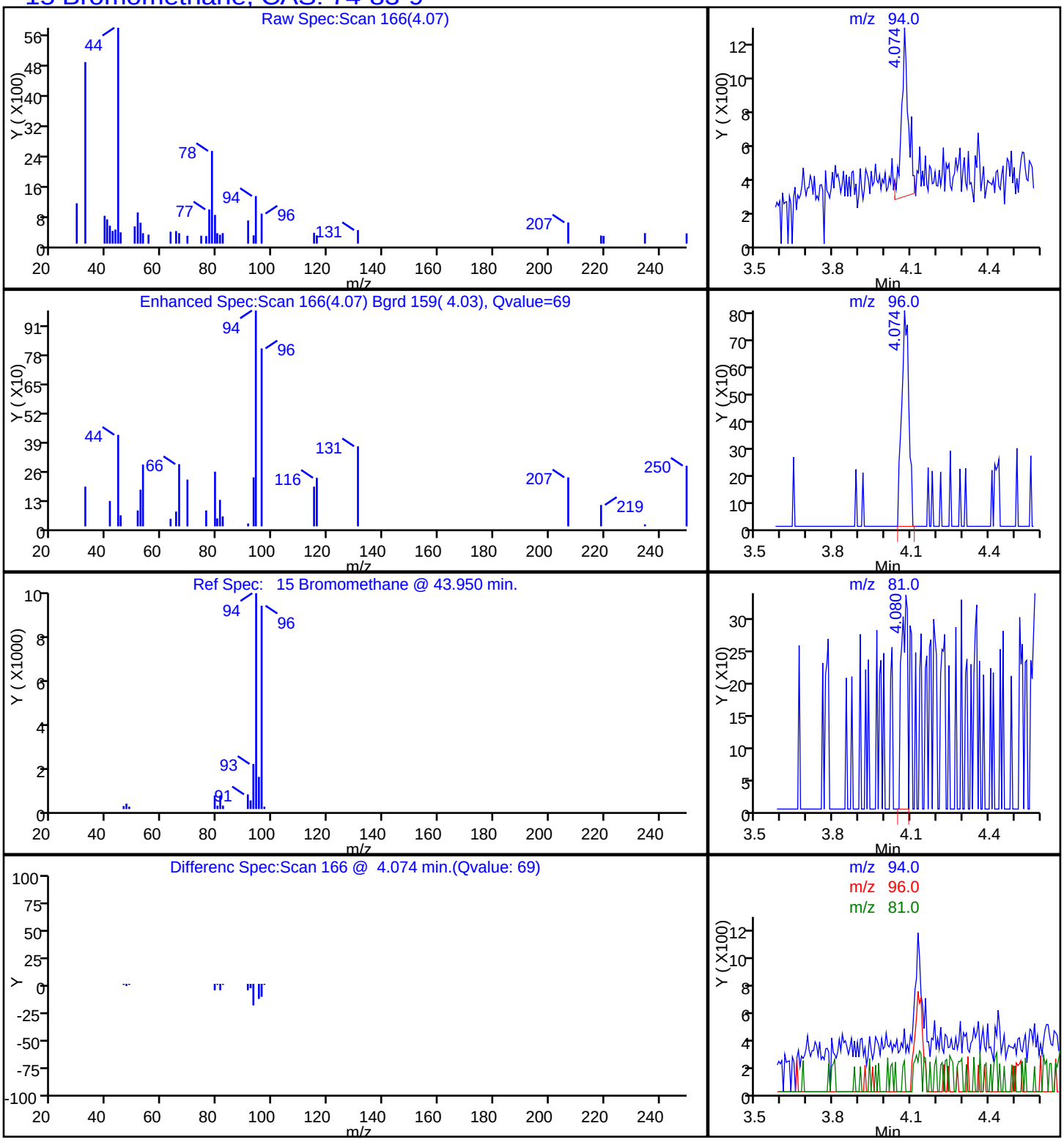
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

15 Bromomethane, CAS: 74-83-9



Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date: 20-Mar-2014 21:00:30 Instrument ID: ME

Lims ID: 140-1060-A-9 Lab Sample ID: 140-1060-9

Client ID: PCV-IA1-B17

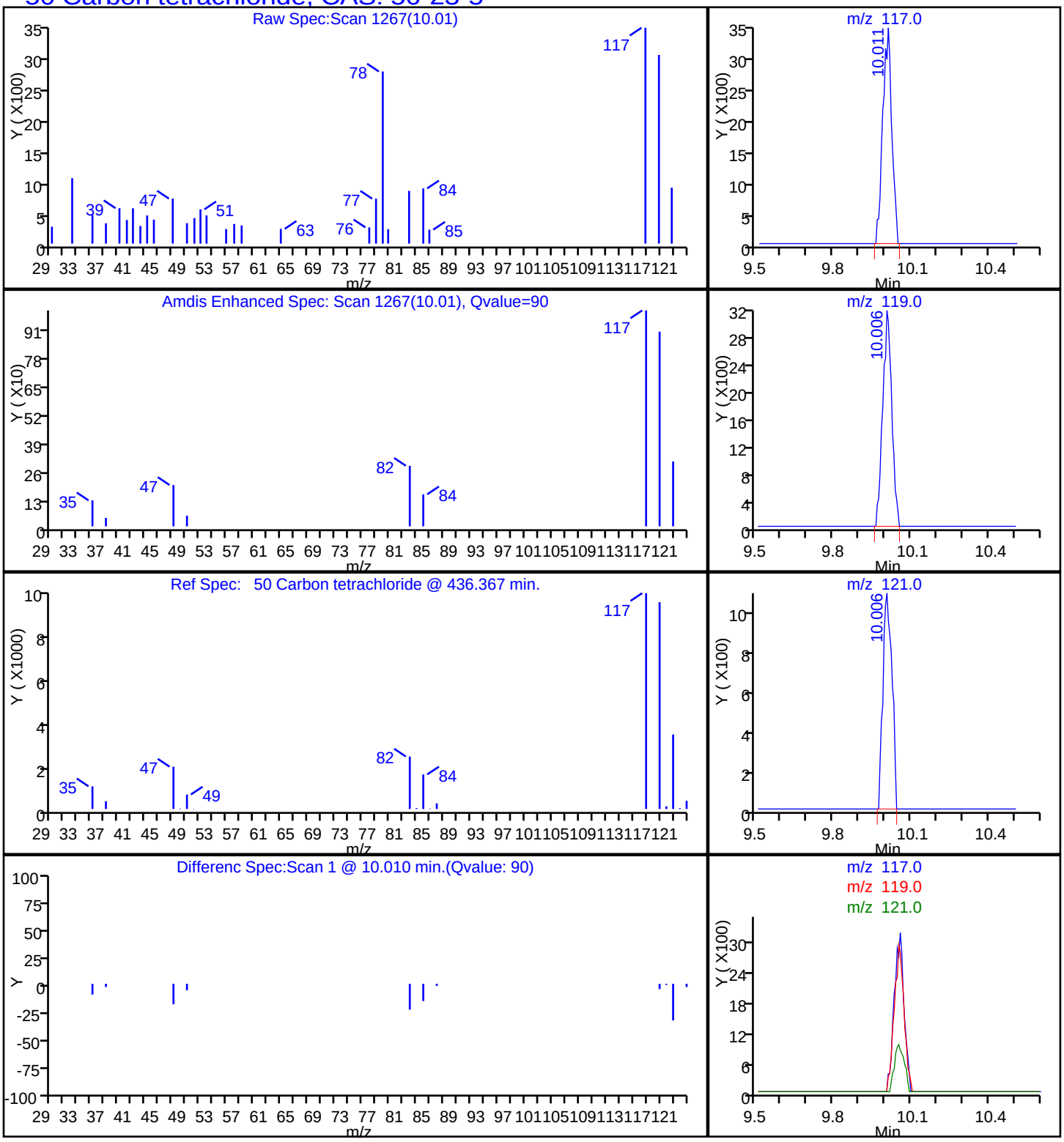
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



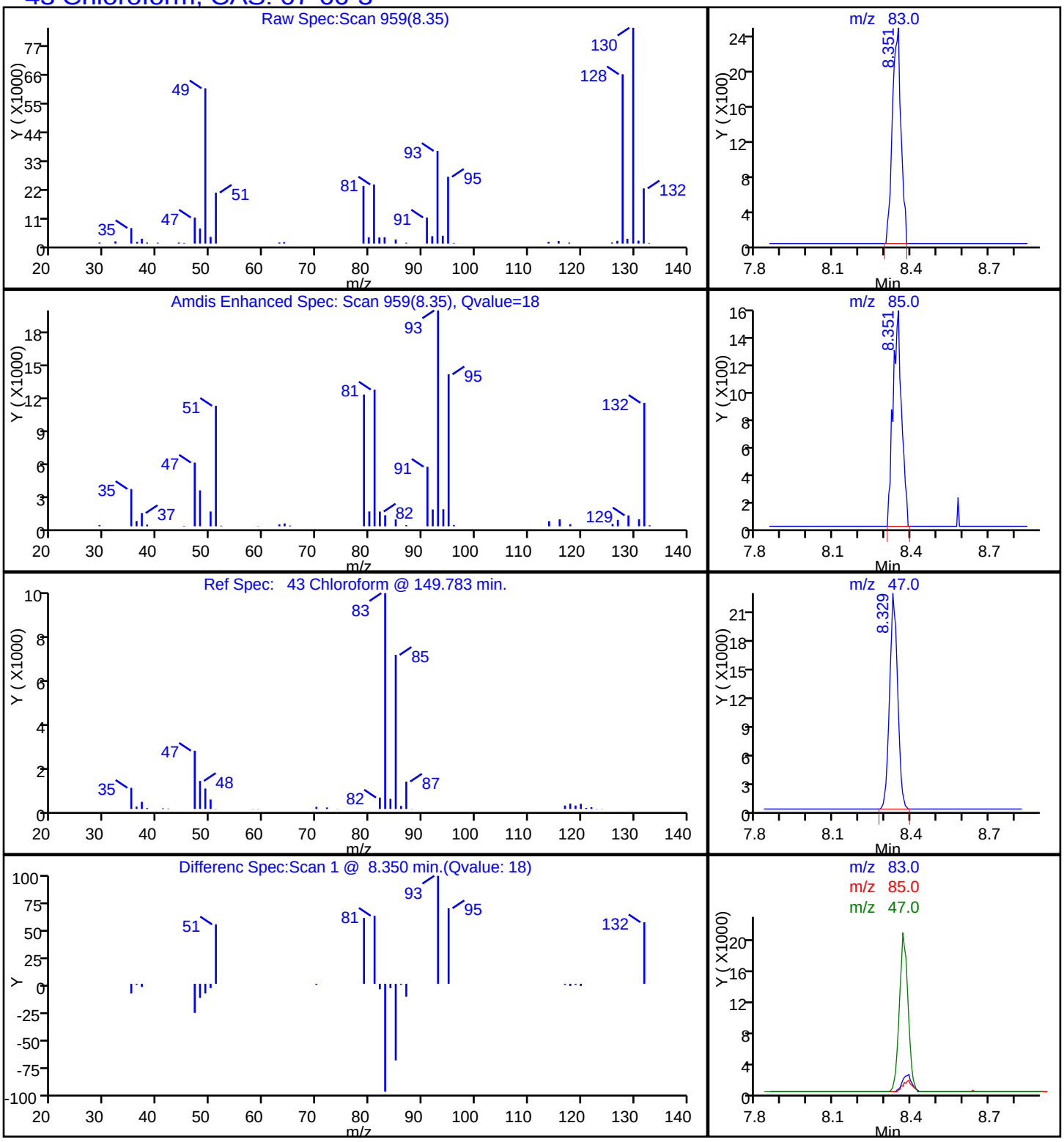
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date: 20-Mar-2014 21:00:30 Instrument ID: ME

Lims ID: 140-1060-A-9 Lab Sample ID: 140-1060-9

Client ID: PCV-IA1-B17

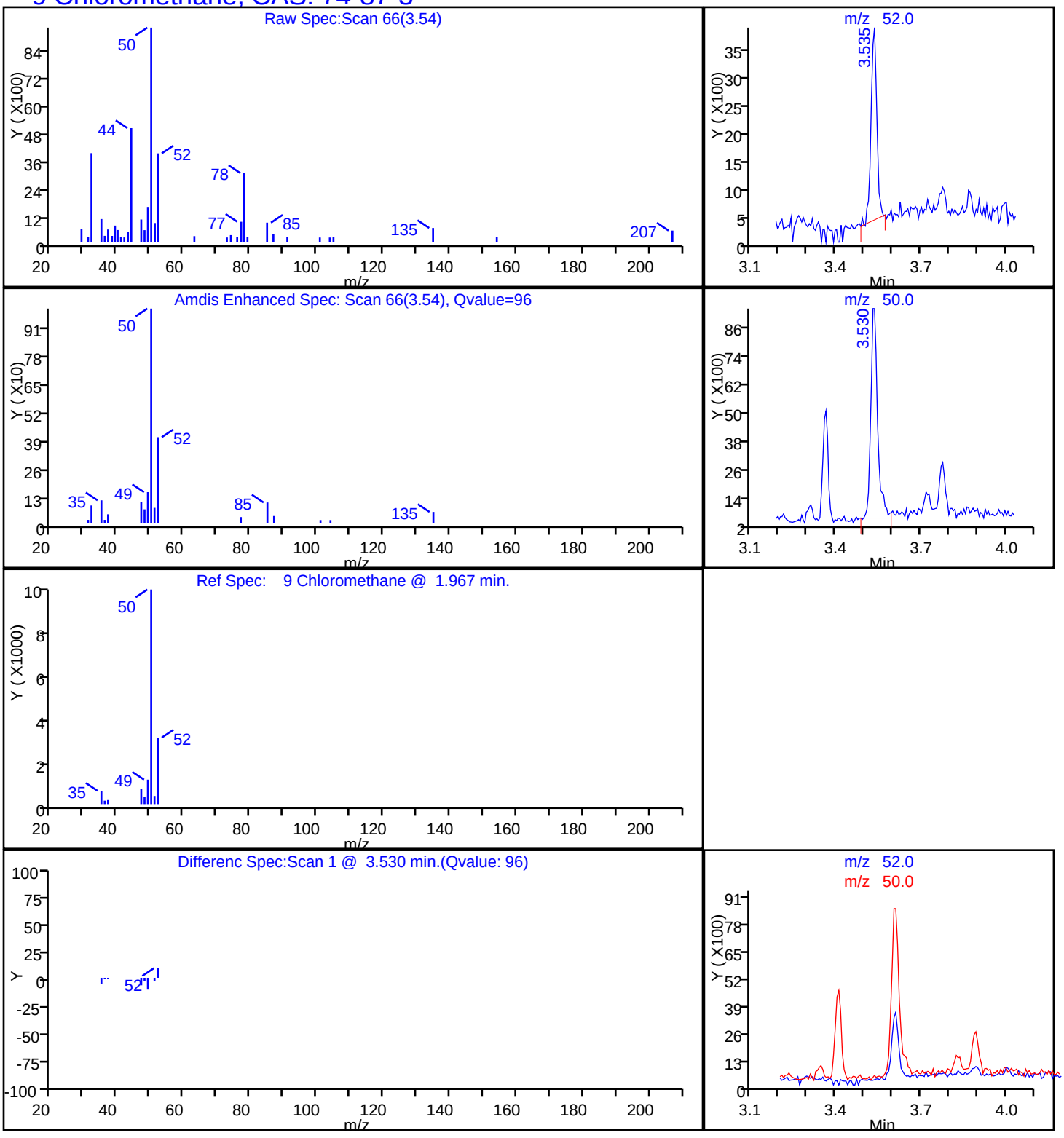
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date: 20-Mar-2014 21:00:30 Instrument ID: ME

Lims ID: 140-1060-A-9 Lab Sample ID: 140-1060-9

Client ID: PCV-IA1-B17

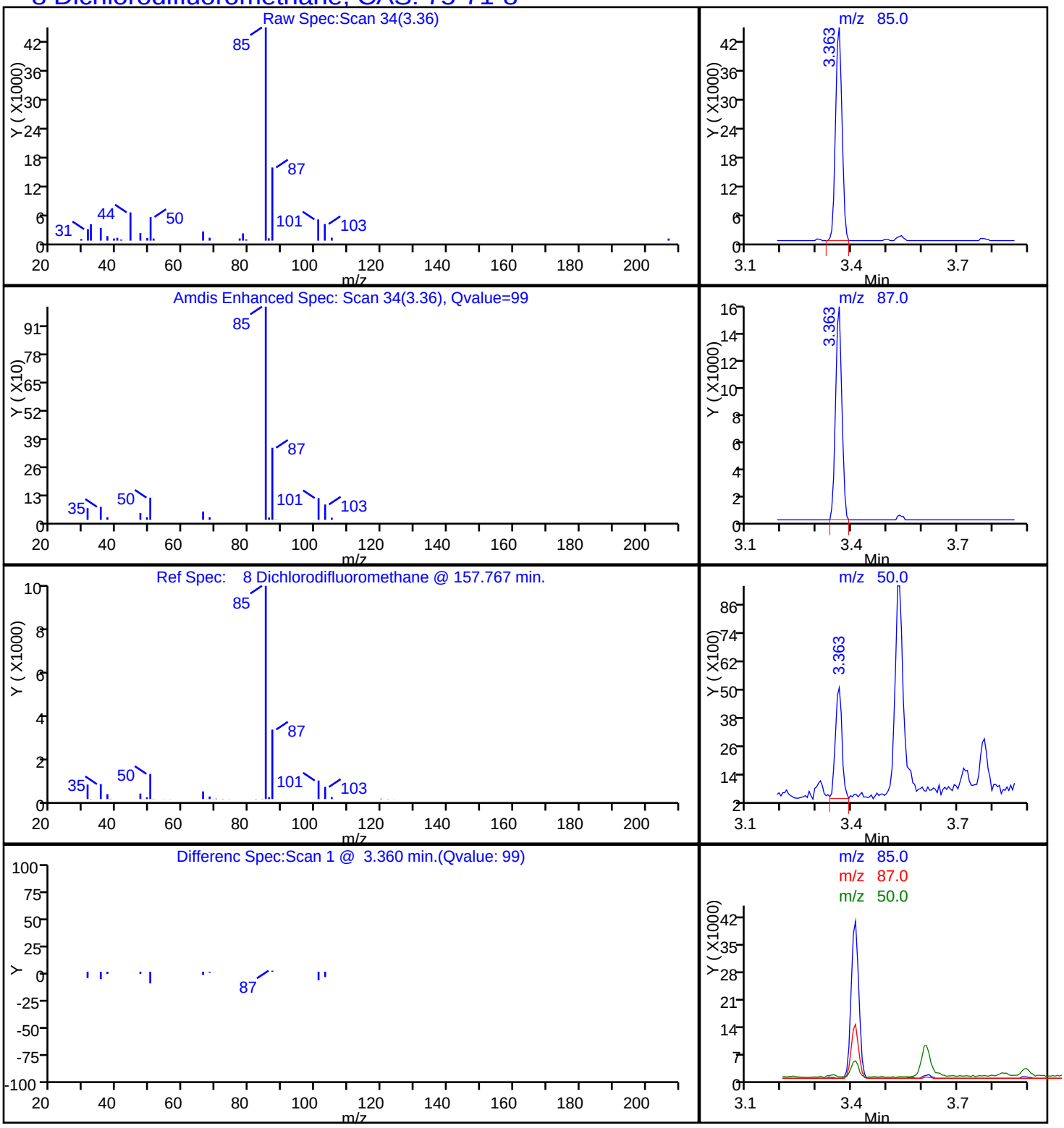
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

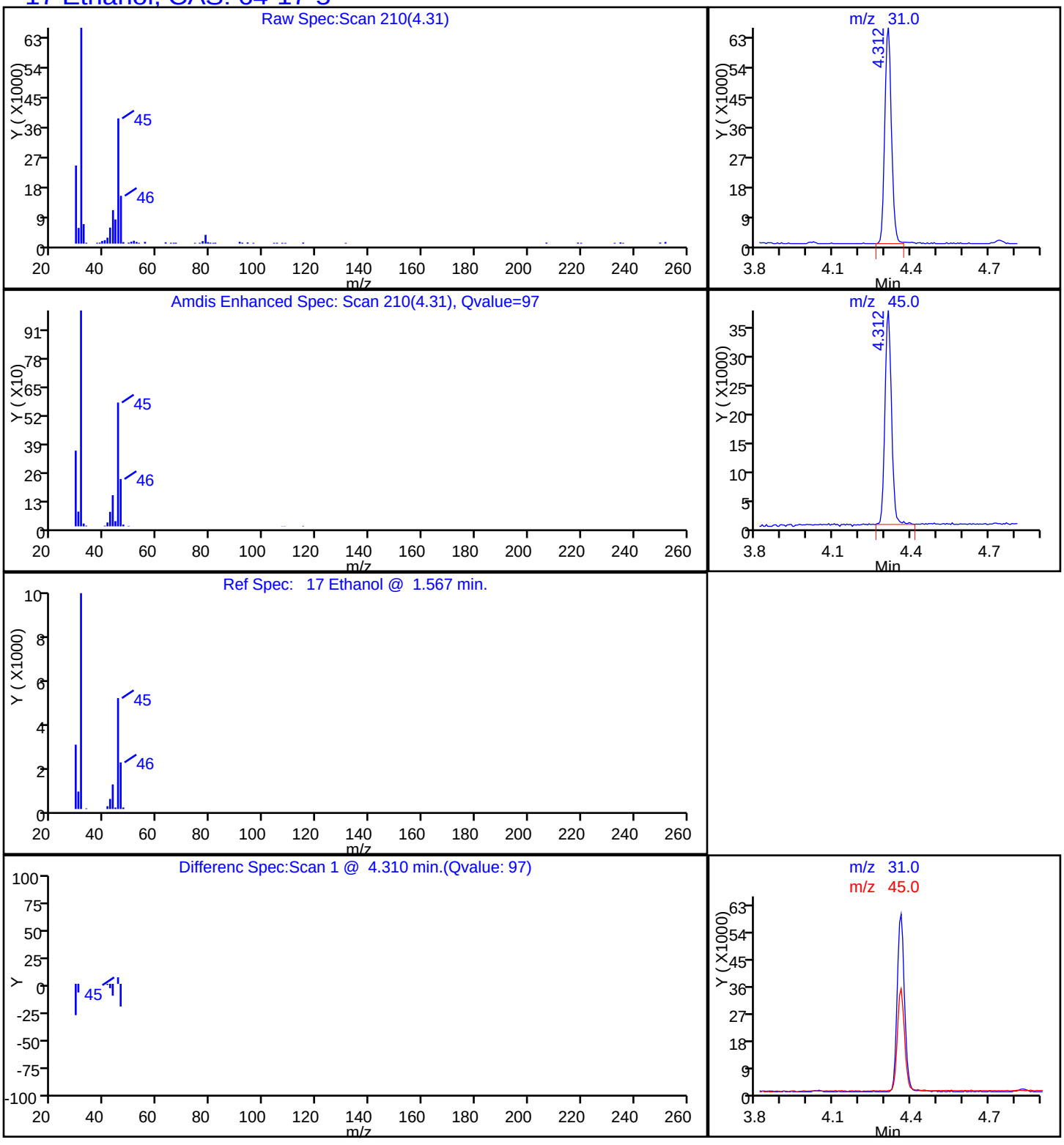


Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D		
Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



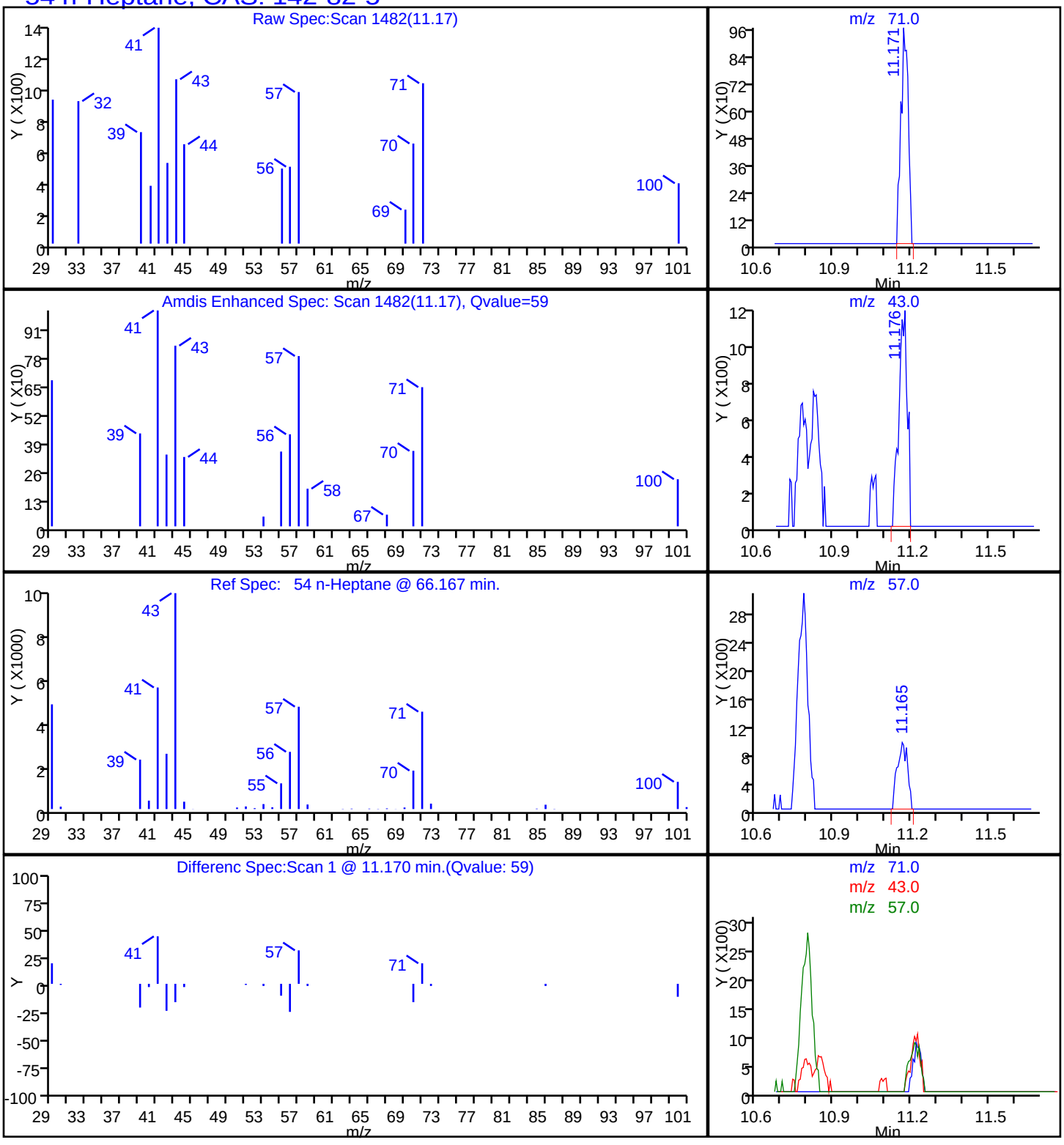
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



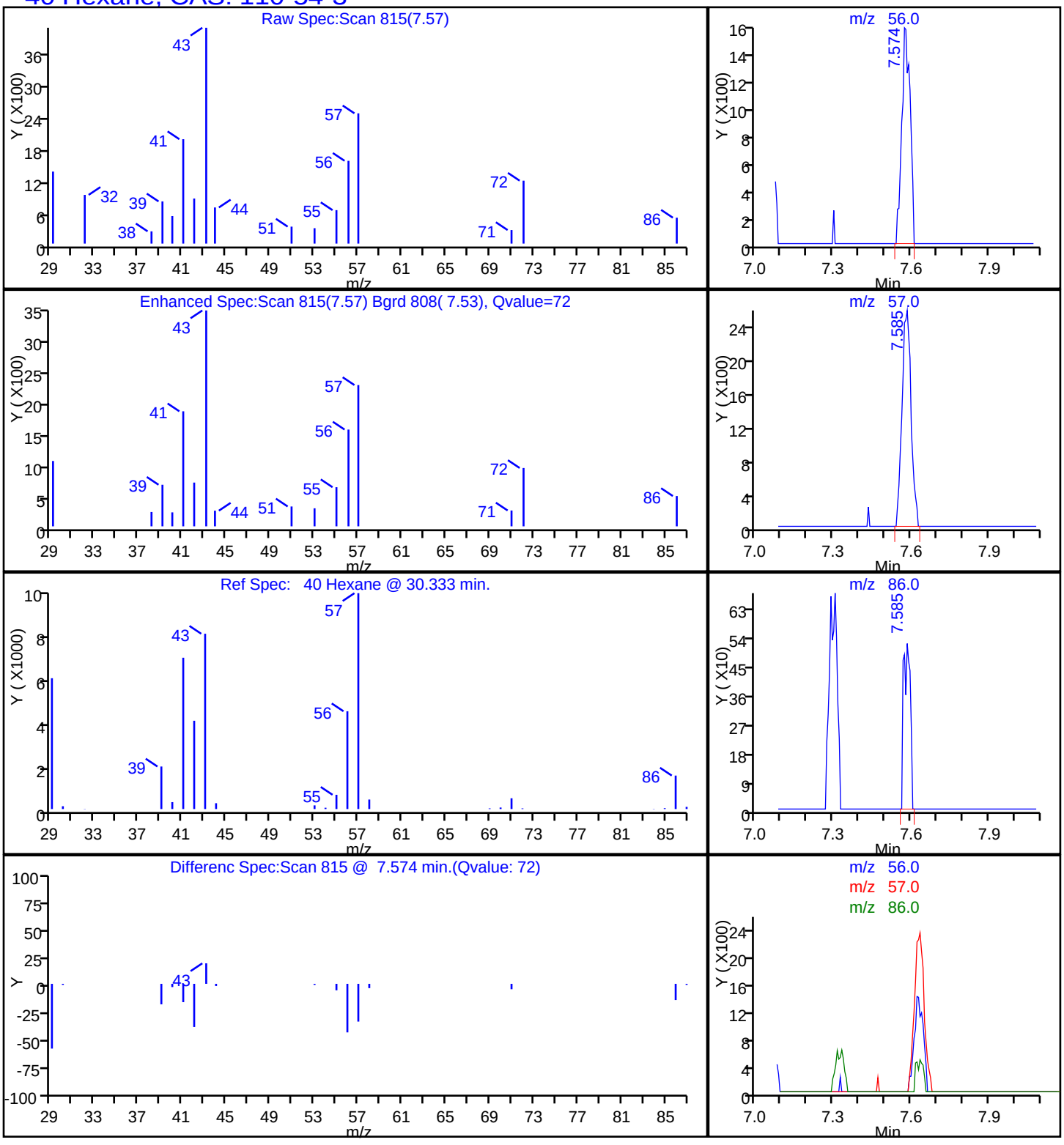
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



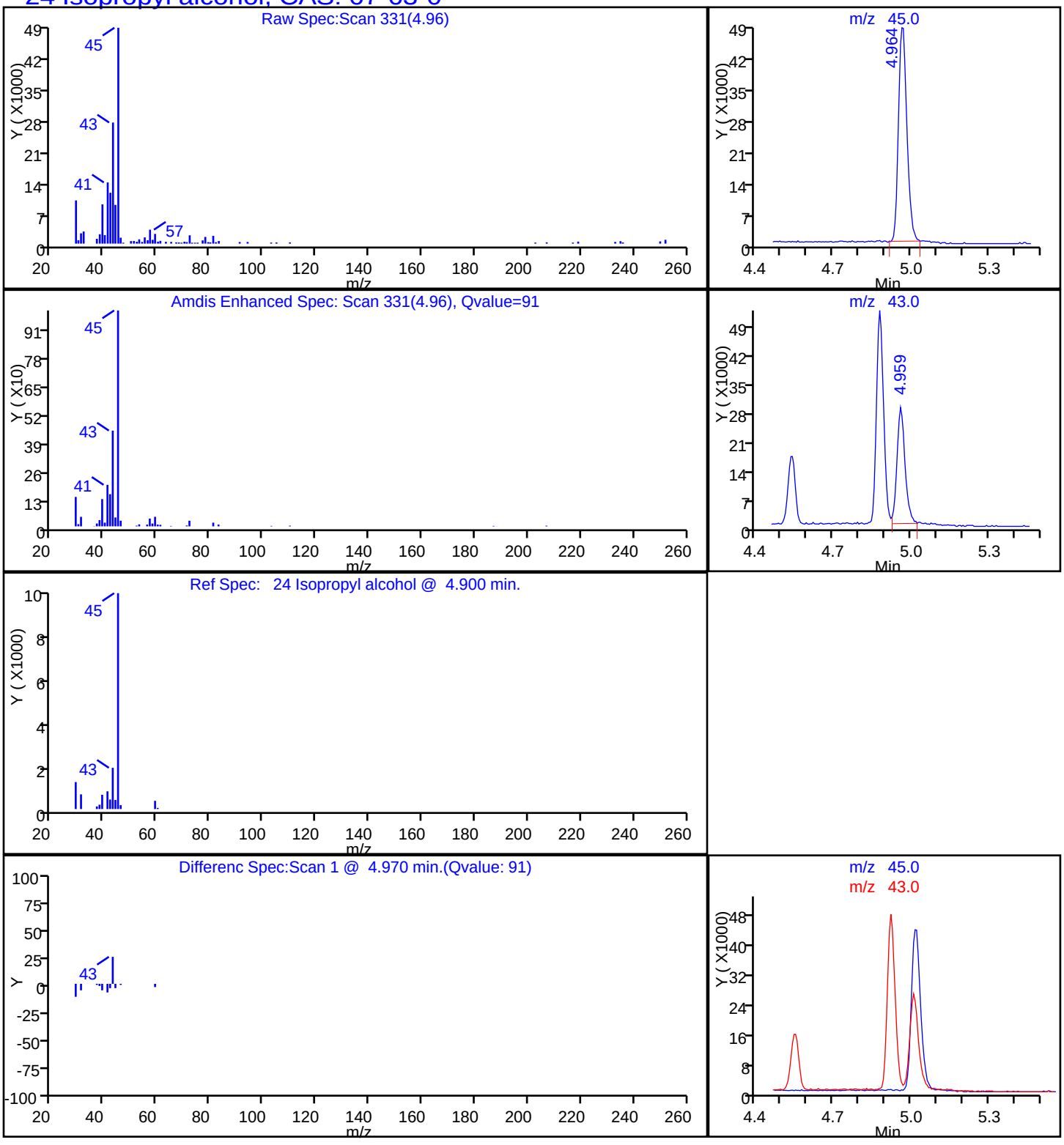
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



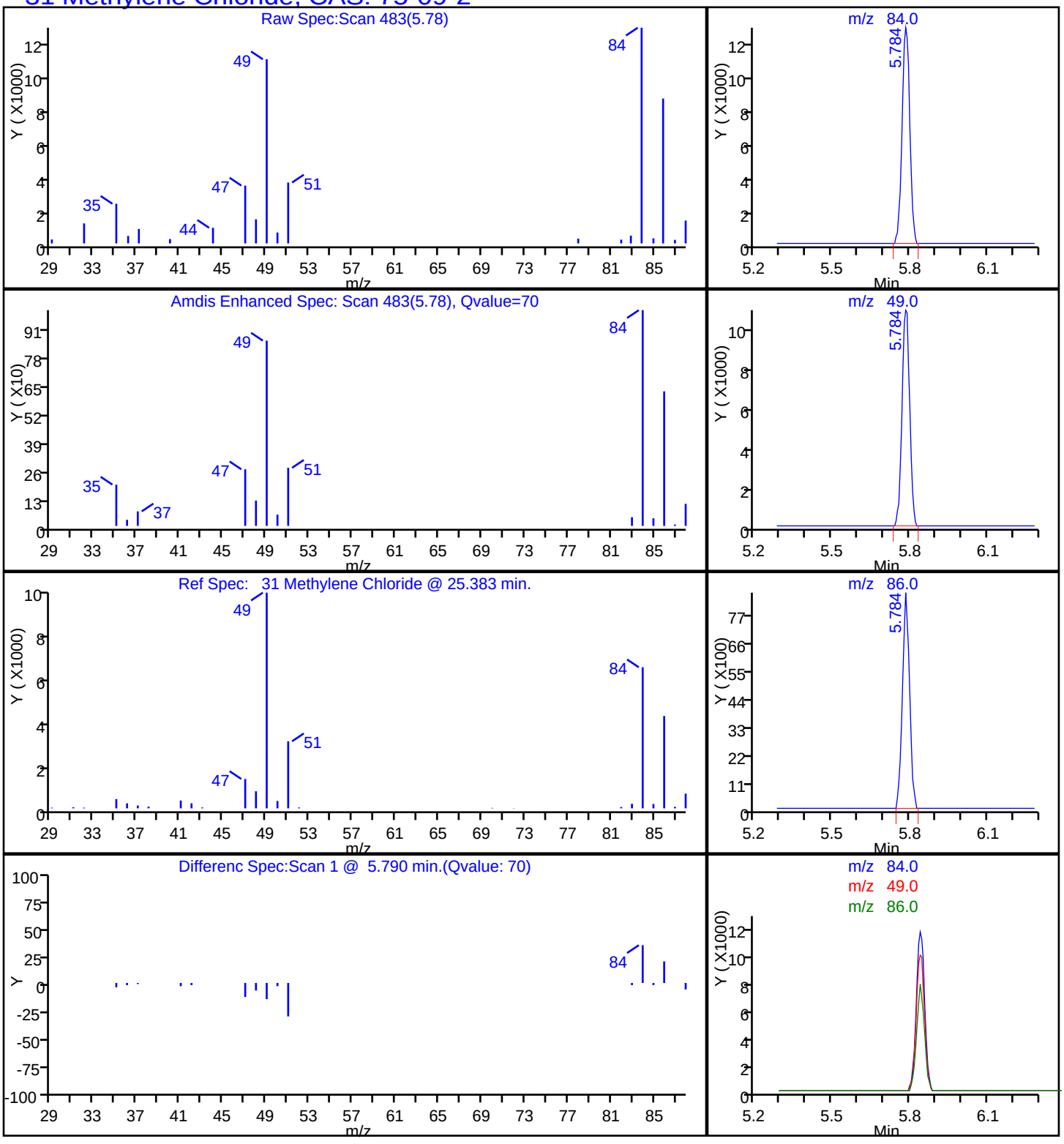
Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



Report Date: 21-Mar-2014 09:35:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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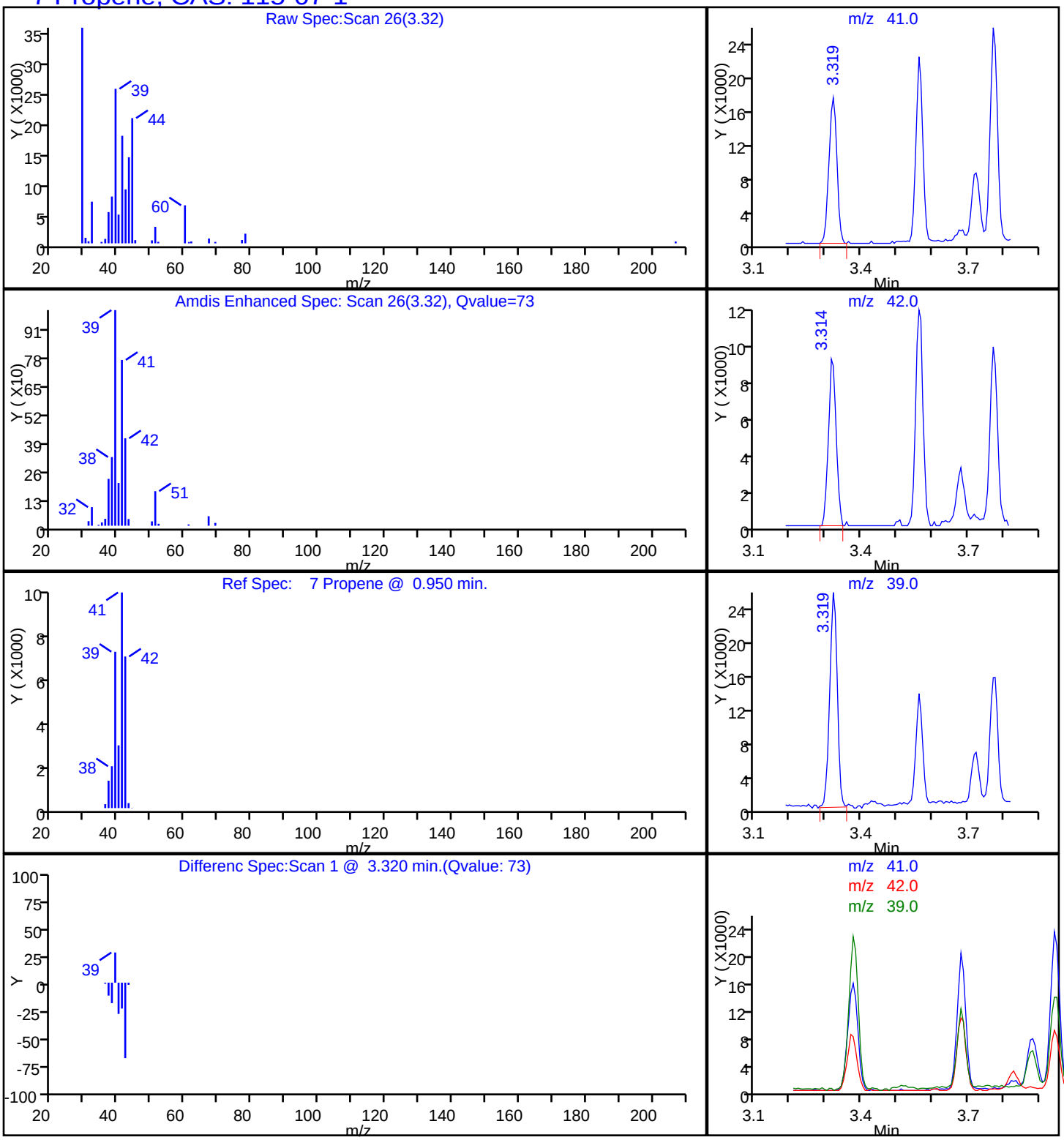
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



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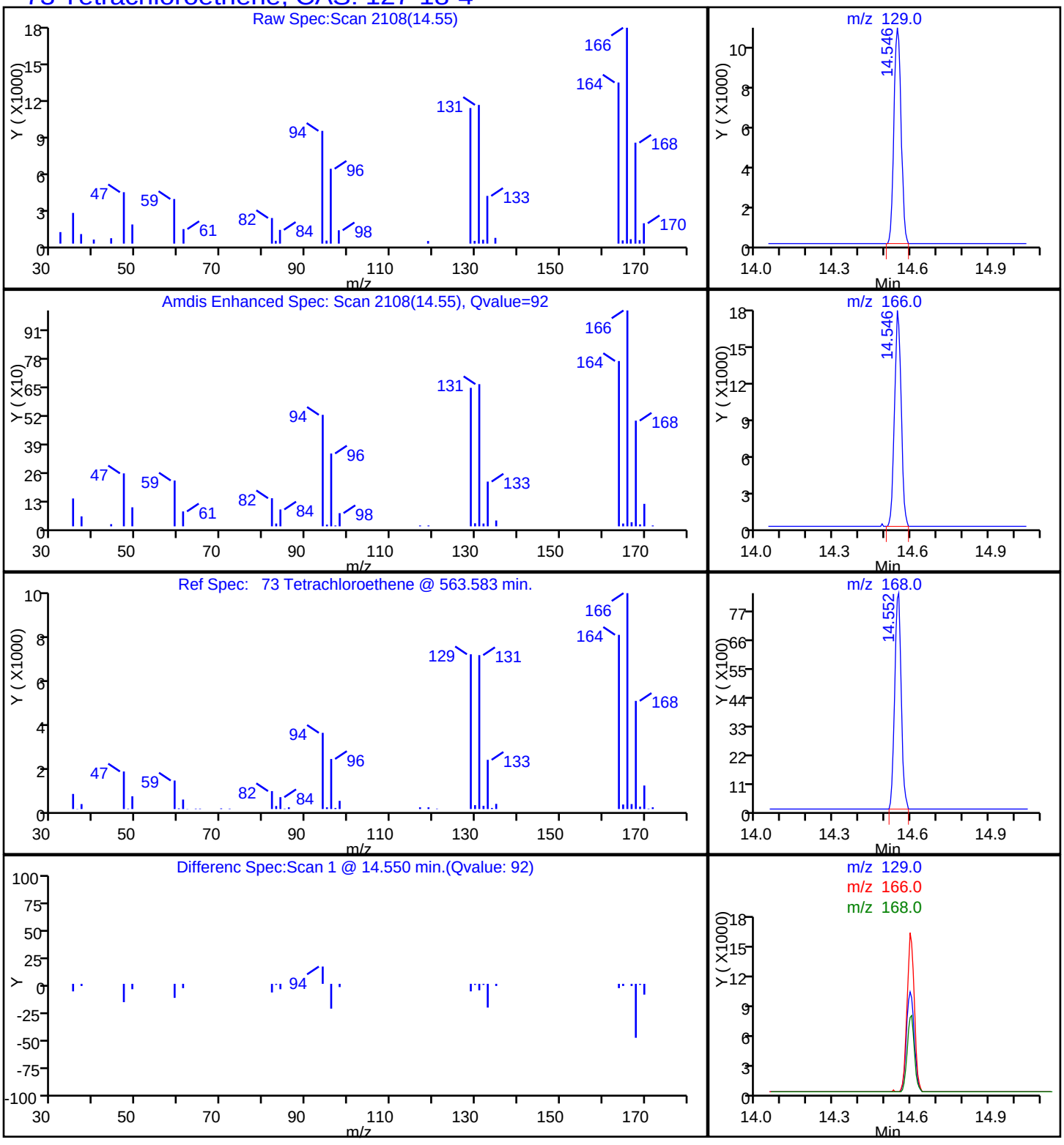
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



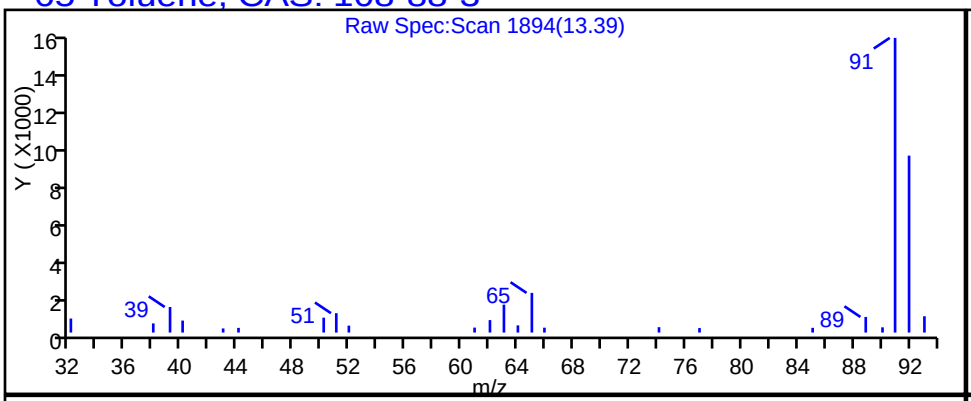
Report Date: 21-Mar-2014 09:35:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

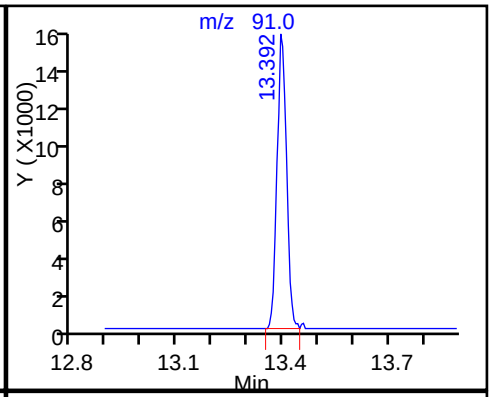
TestAmerica Knoxville

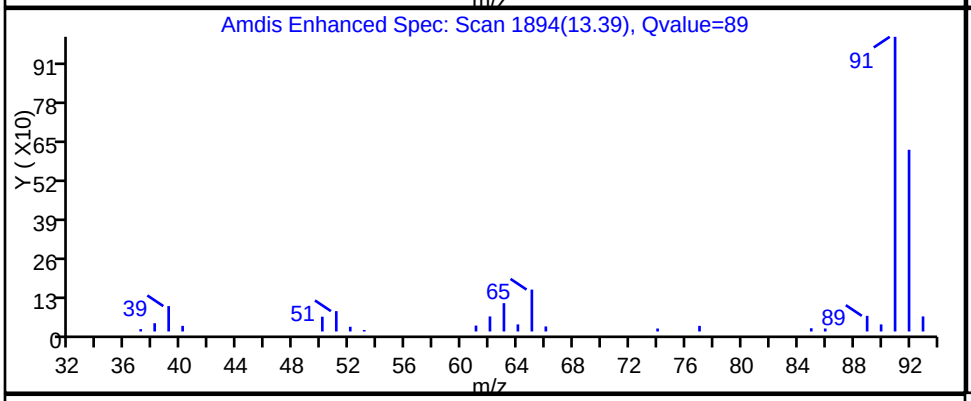
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

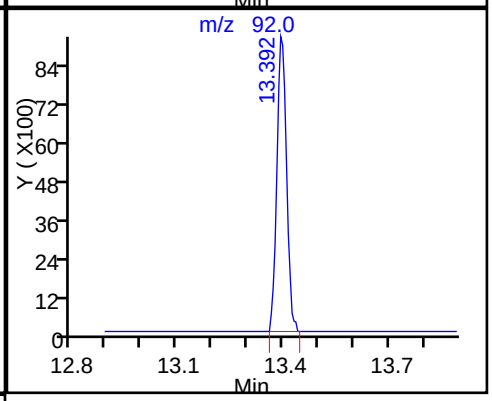
Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME		
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9		
Client ID:	PCV-IA1-B17				
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

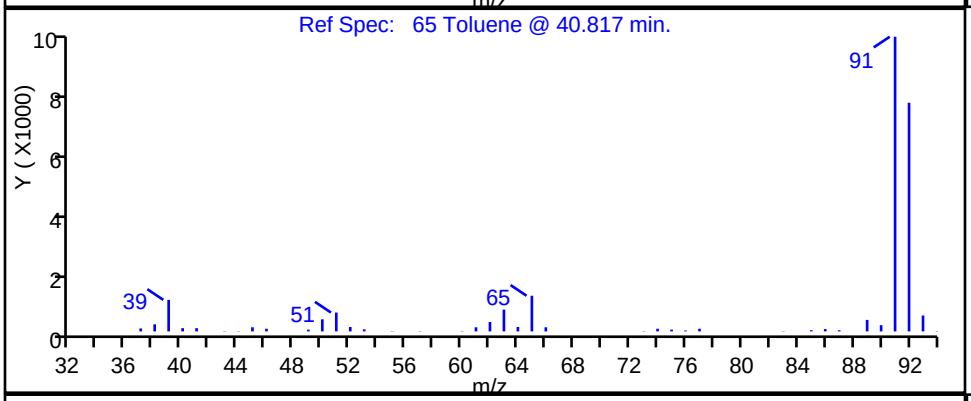
65 Toluene, CAS: 108-88-3

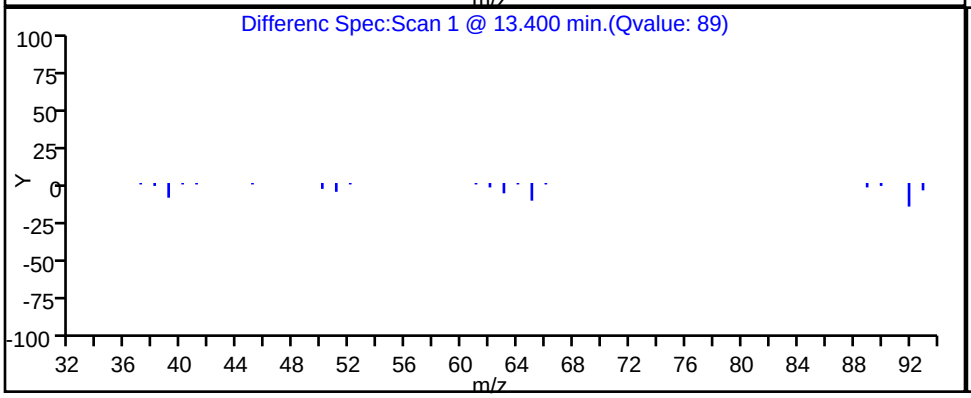


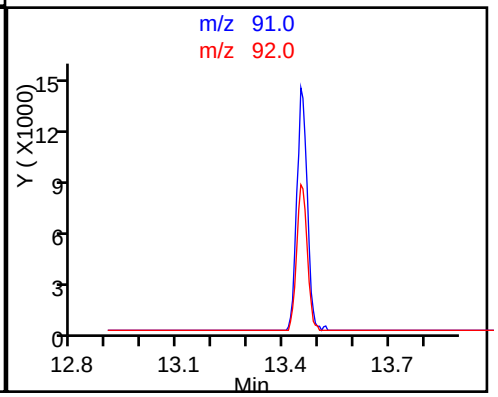












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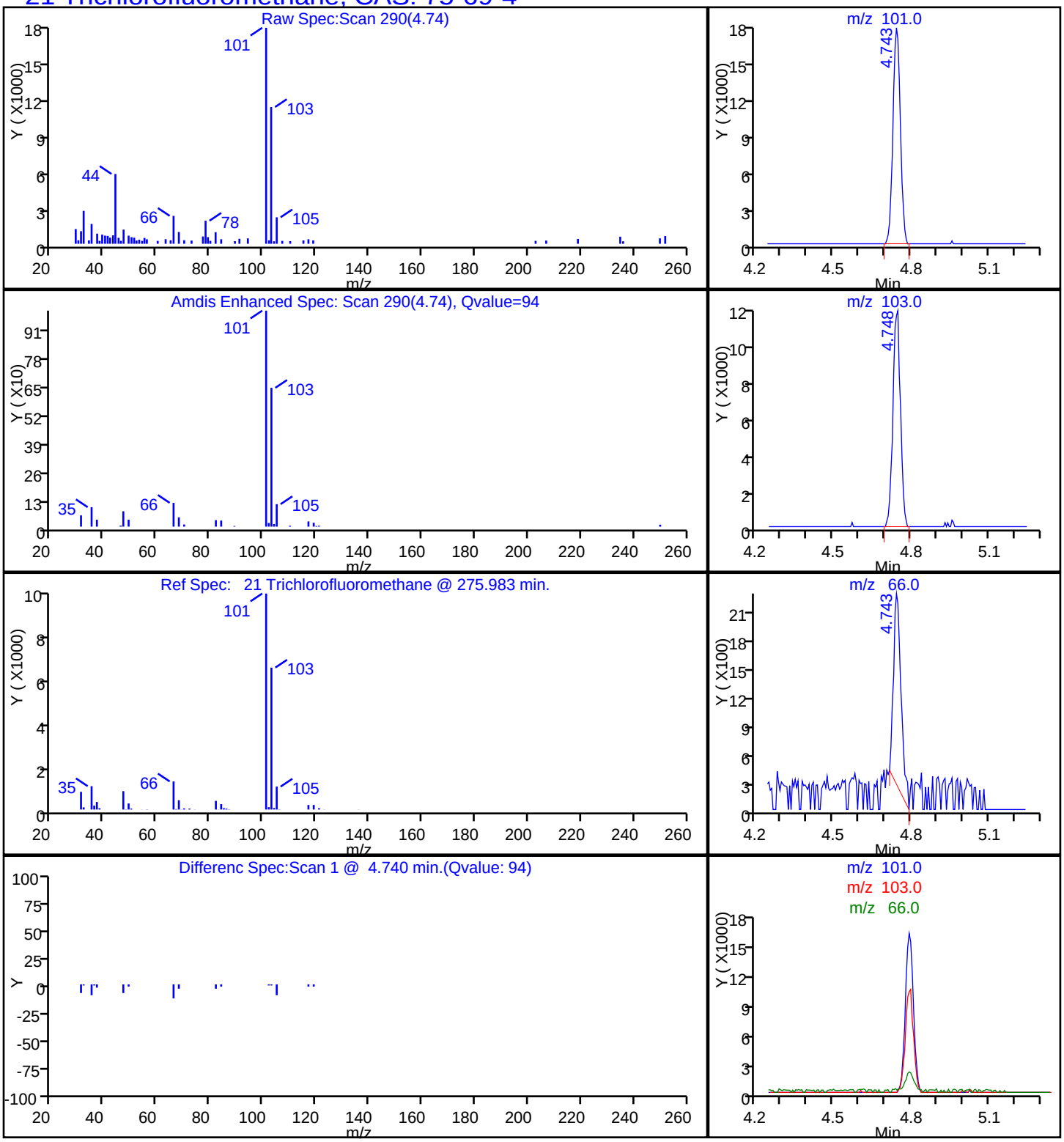
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P107.D

Injection Date:	20-Mar-2014 21:00:30	Instrument ID:	ME
Lims ID:	140-1060-A-9	Lab Sample ID:	140-1060-9
Client ID:	PCV-IA1-B17		
Operator ID:	7126	ALS Bottle#:	7 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.082	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.34	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.73		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	4.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.090	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.040	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.84		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.20	0.068
64-17-5	Ethanol	46.07	11		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.10	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	7.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	8.9		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.19	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.076	J	0.20	0.061
115-07-1	Propene	42.08	0.82	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.051	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.22		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.63	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	10	J	12	3.3
71-43-2	Benzene	78.11	0.63		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.57	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.19	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.7		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.99	0.34
64-17-5	Ethanol	46.07	20		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.36	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	19		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	31		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.83	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	0.33	J	0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.83		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B17 Lab Sample ID: 140-1060-10

Matrix: Air Lab File ID: EC20P108.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:30

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 21:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D
Lims ID: 140-1060-A-10 Lab Sample ID: 140-1060-10
Client ID: PCV-IA2-B17
Sample Type: Client
Inject. Date: 20-Mar-2014 21:45:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-10
Misc. Info.: E032014,TO155,,140-0000533-012
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:36:18 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:36:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	264001	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1170741	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	989873	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	796730	3.68	
7 Propene	41	3.319	3.314	0.005	87	21707	0.3269	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	62283	0.2133	
9 Chloromethane	52	3.530	3.530	0.0	98	7830	0.3359	
17 Ethanol	31	4.317	4.317	0.0	97	113057	4.28	
19 2-Methylbutane	43	4.533	4.538	-0.005	85	27025	0.2923	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	32898	0.1123	
23 Acetone	58	4.872	4.883	-0.011	92	68250	1.71	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	96	323389	3.14	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	77	5945	0.0328	
31 Methylene Chloride	84	5.784	5.789	-0.005	79	268394	3.56	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	90	5931	0.1372	
40 Hexane	56	7.585	7.585	0.0	58	2907	0.0414	
43 Chloroform	83	8.345	8.356	-0.011	17	3602	0.0159	
48 Benzene	78	9.990	9.995	-0.005	91	18463	0.0784	
50 Carbon tetrachloride	117	10.011	10.017	-0.006	88	8175	0.0361	
65 Toluene	91	13.392	13.398	-0.006	87	23326	0.0880	
73 Tetrachloroethene	129	14.541	14.552	-0.011	78	2316	0.0205	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	94	20558	0.0769	
82 o-Xylene	91	16.407	16.412	-0.005	81	8741	0.0302	

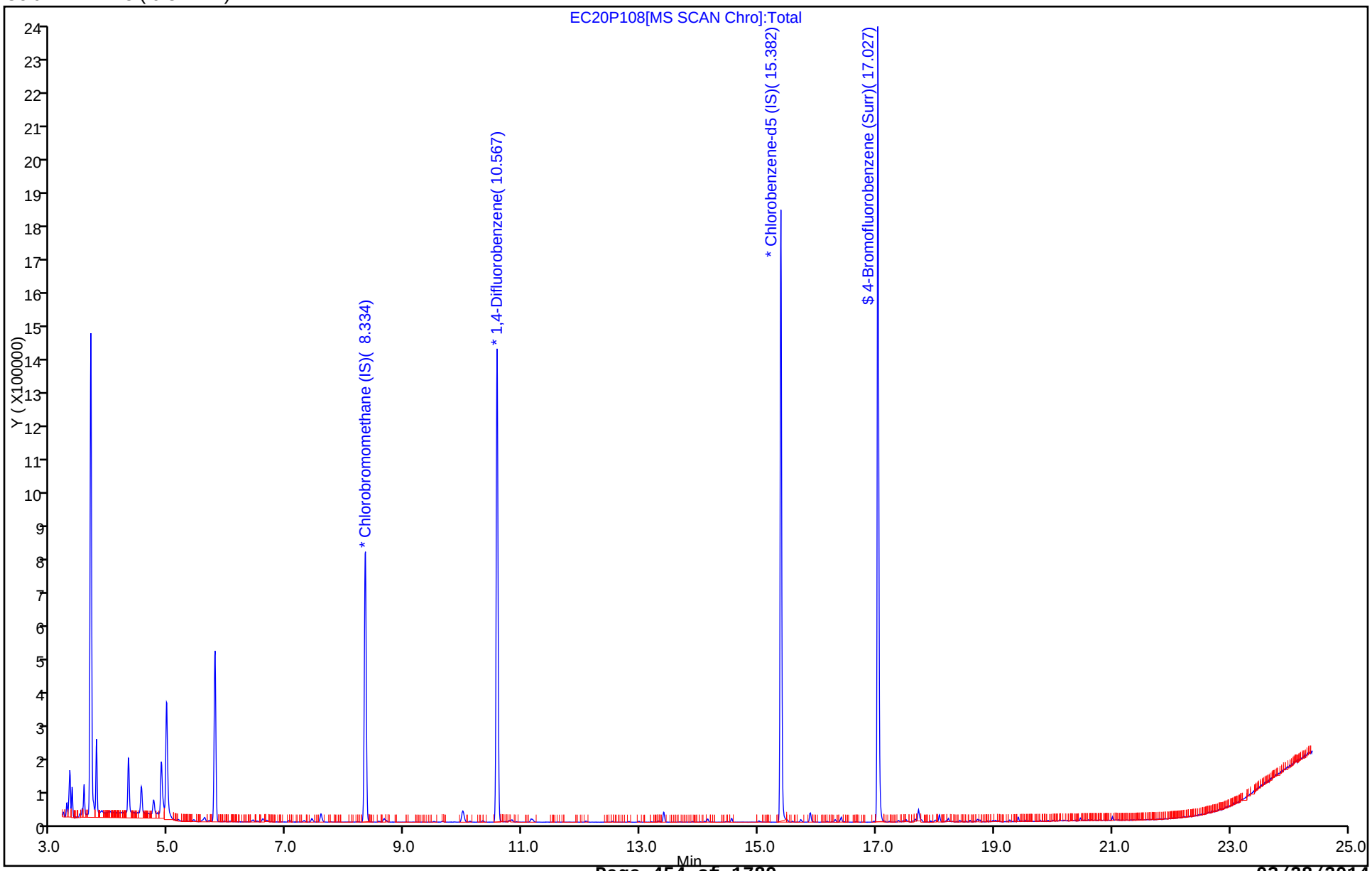
Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10	Worklist Smp#:	12
Client ID:	PCV-IA2-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date: 20-Mar-2014 21:45:30 Instrument ID: ME

Lims ID: 140-1060-A-10 Lab Sample ID: 140-1060-10

Client ID: PCV-IA2-B17

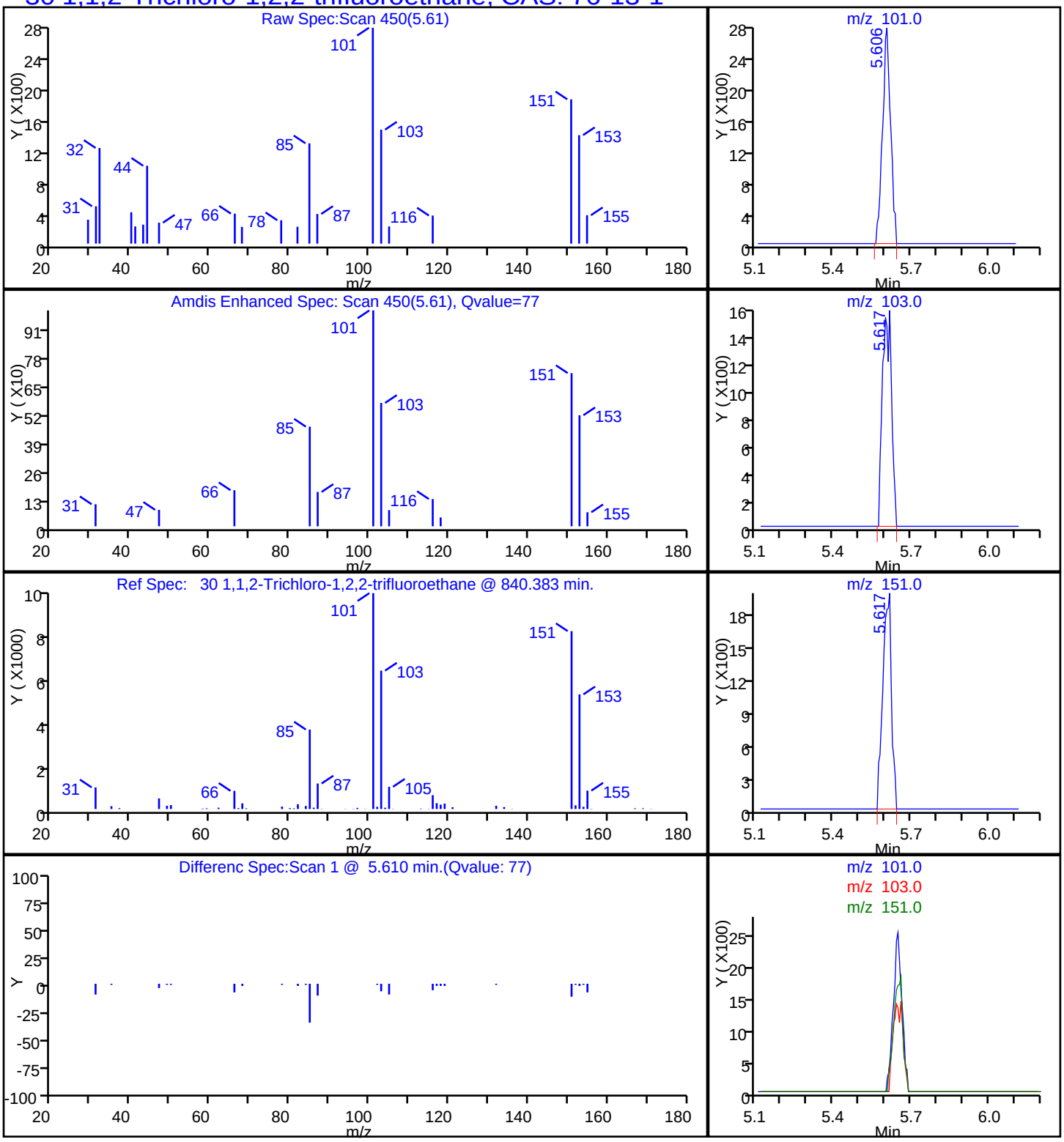
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date: 20-Mar-2014 21:45:30 Instrument ID: ME

Lims ID: 140-1060-A-10 Lab Sample ID: 140-1060-10

Client ID: PCV-IA2-B17

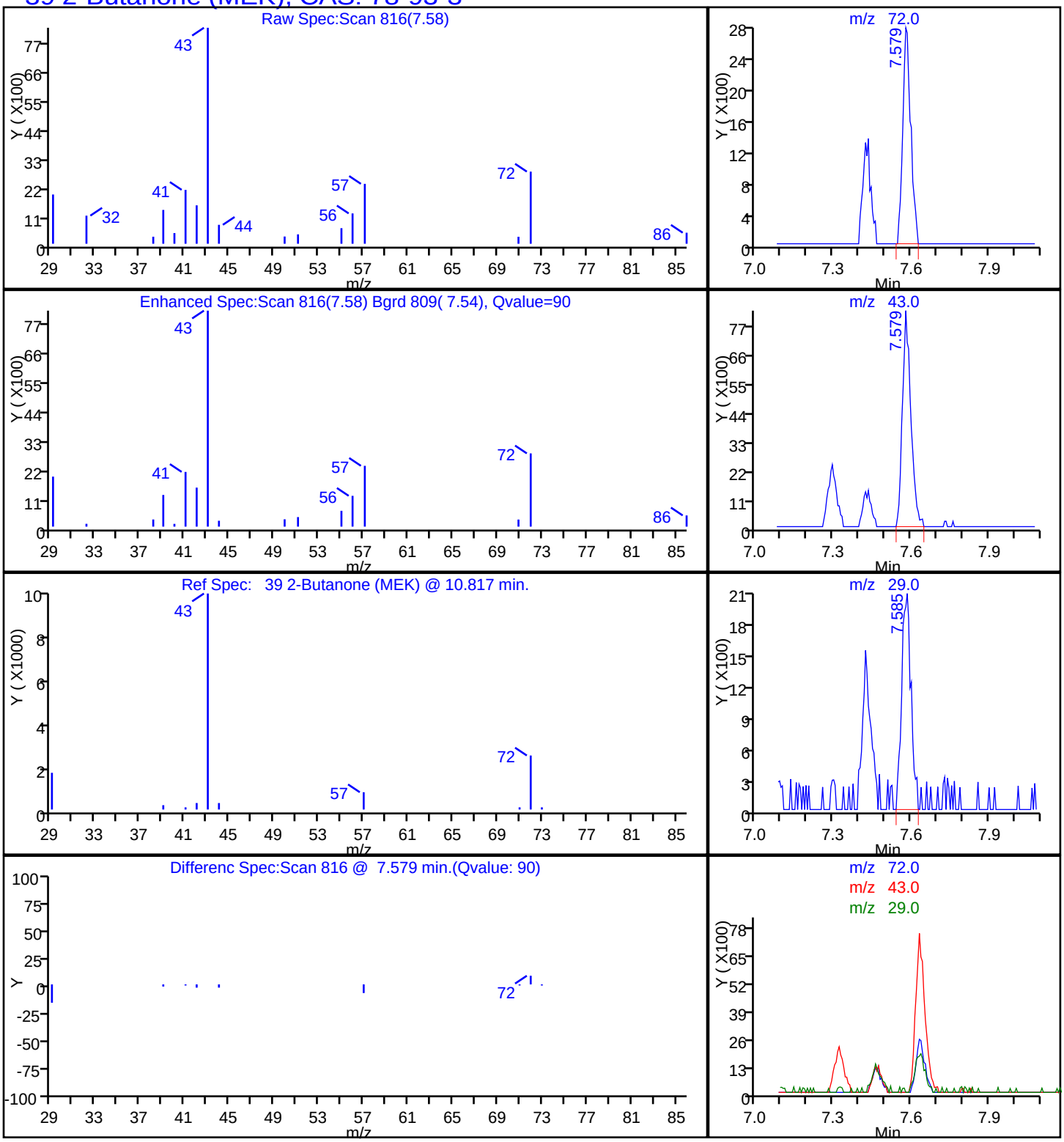
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



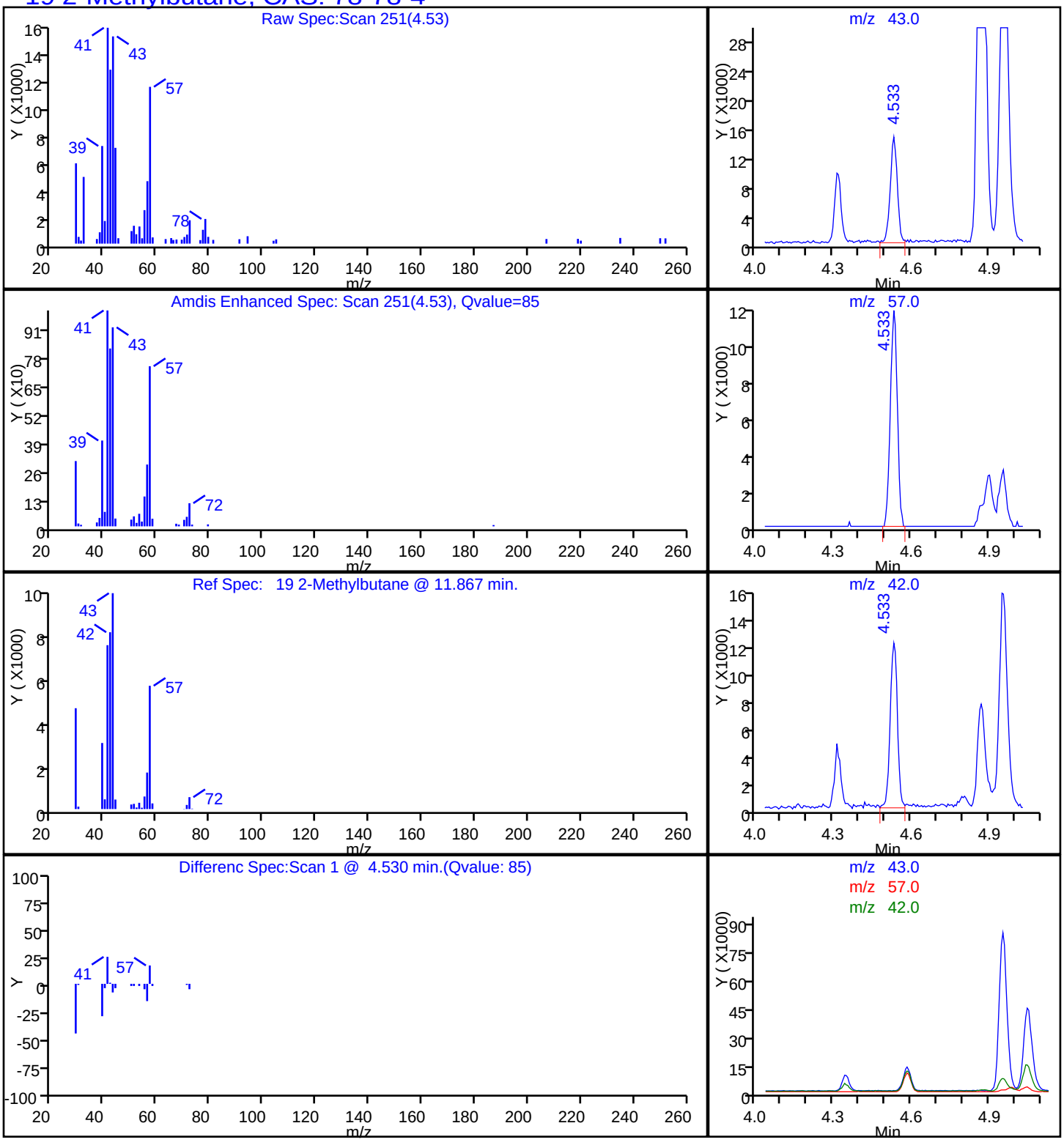
Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

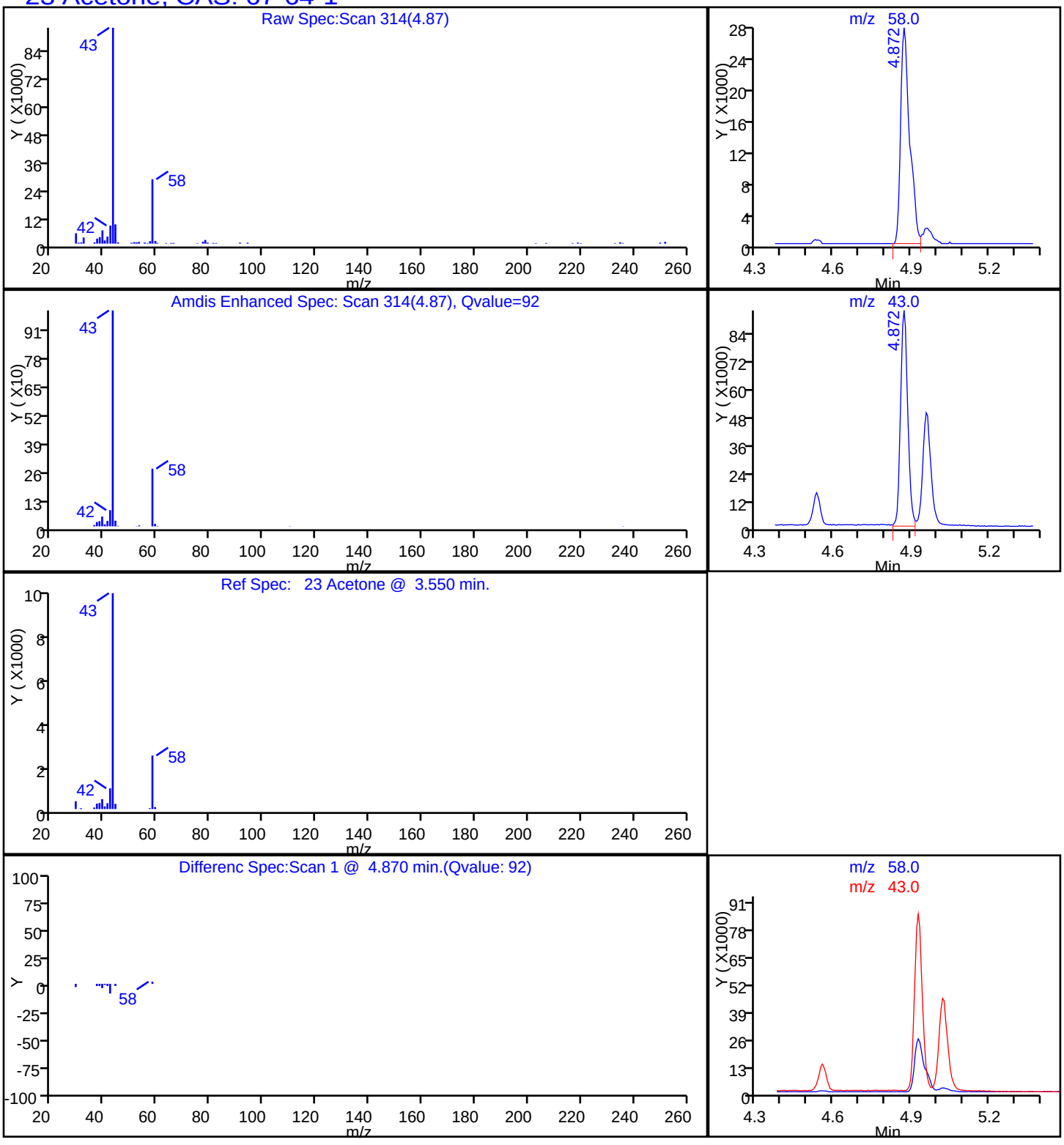


Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D		
Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



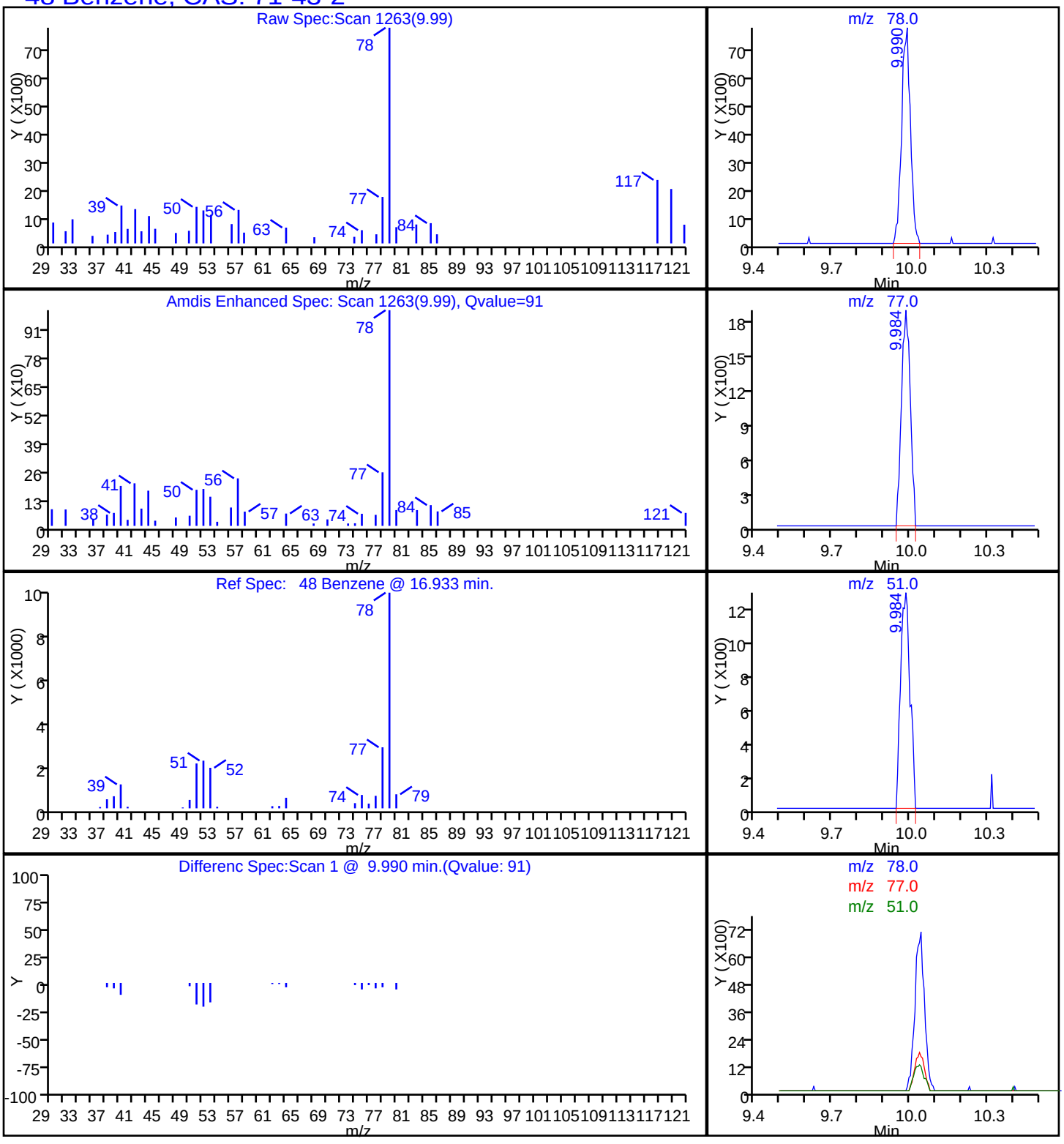
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



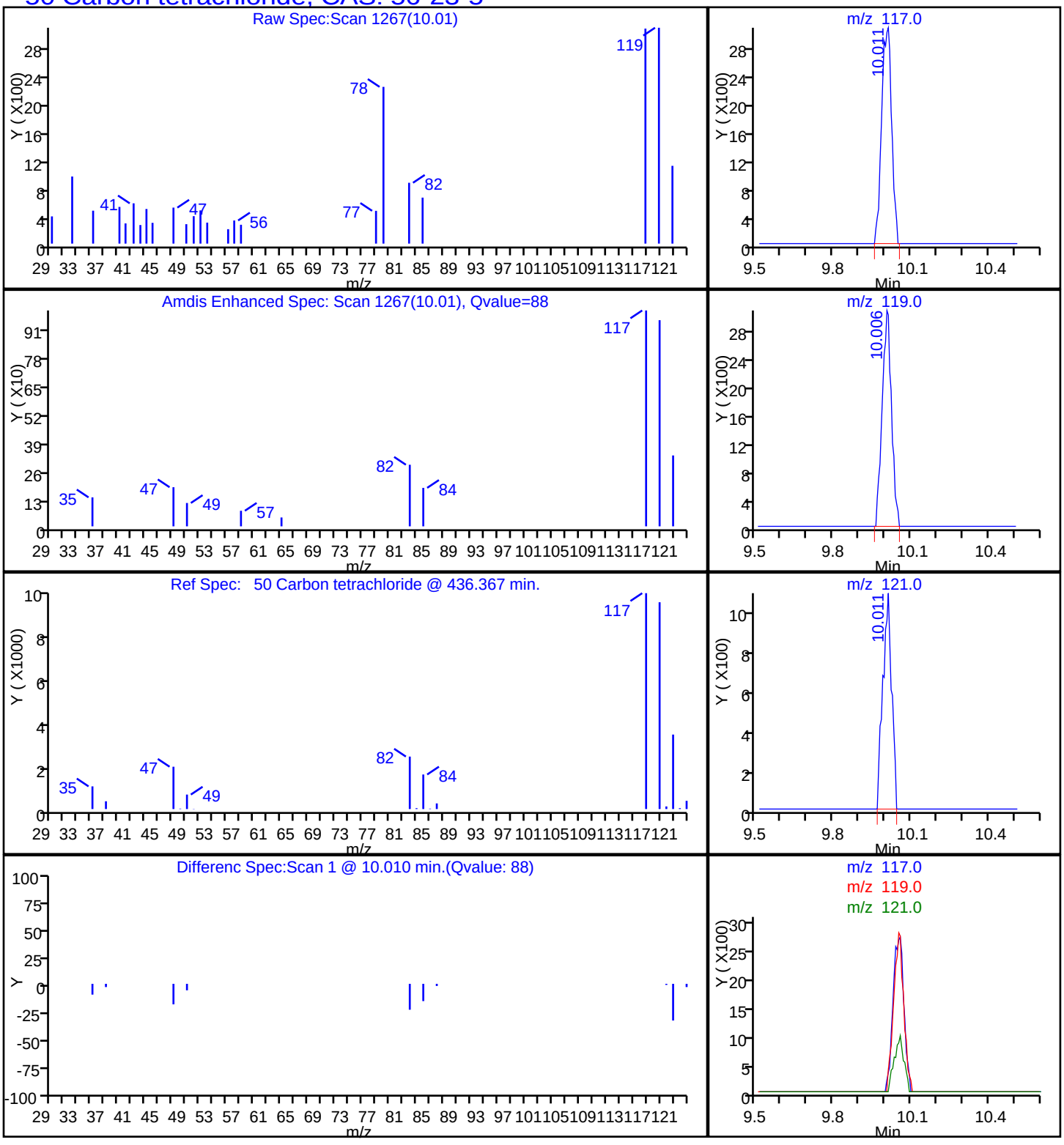
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



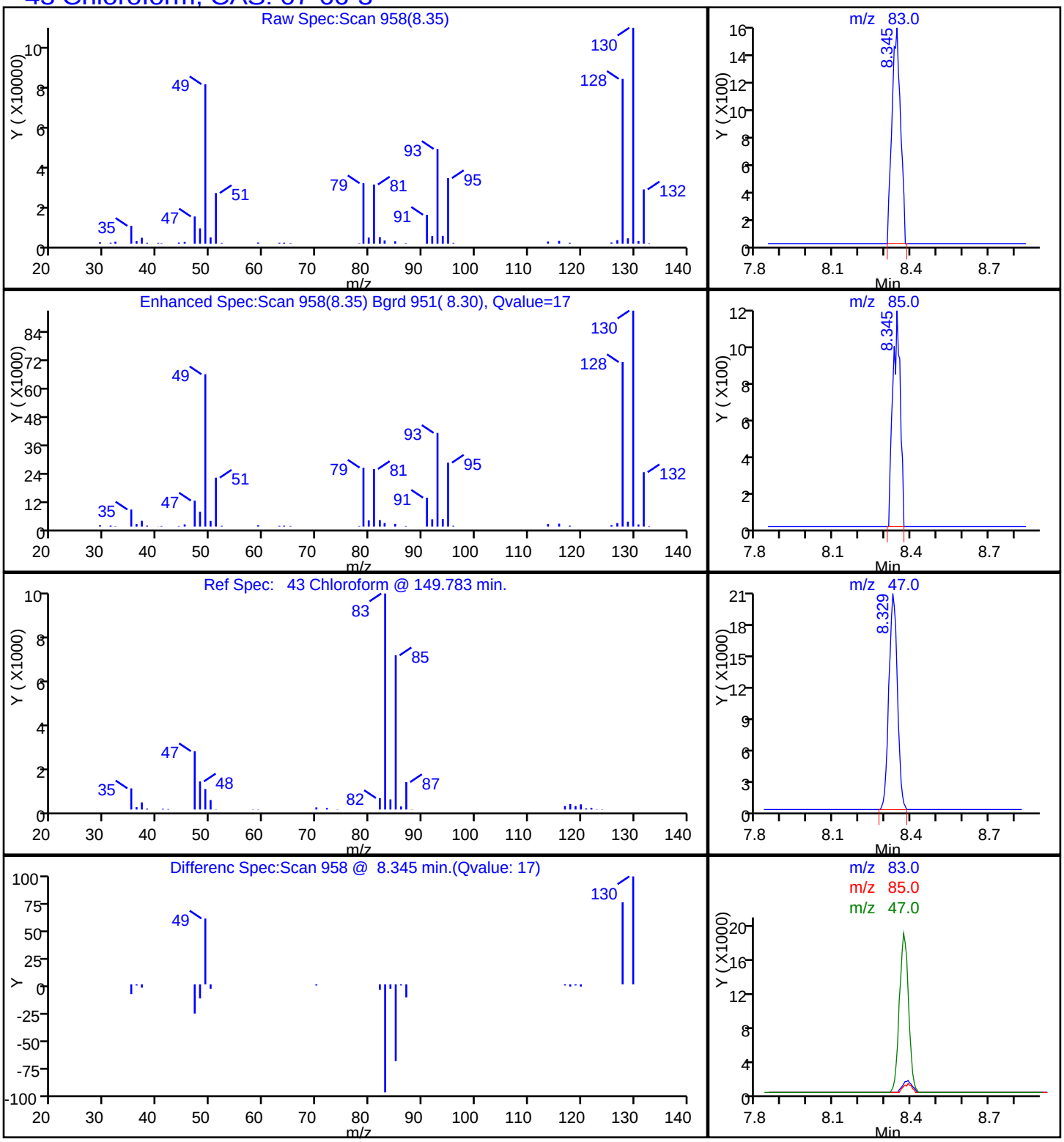
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



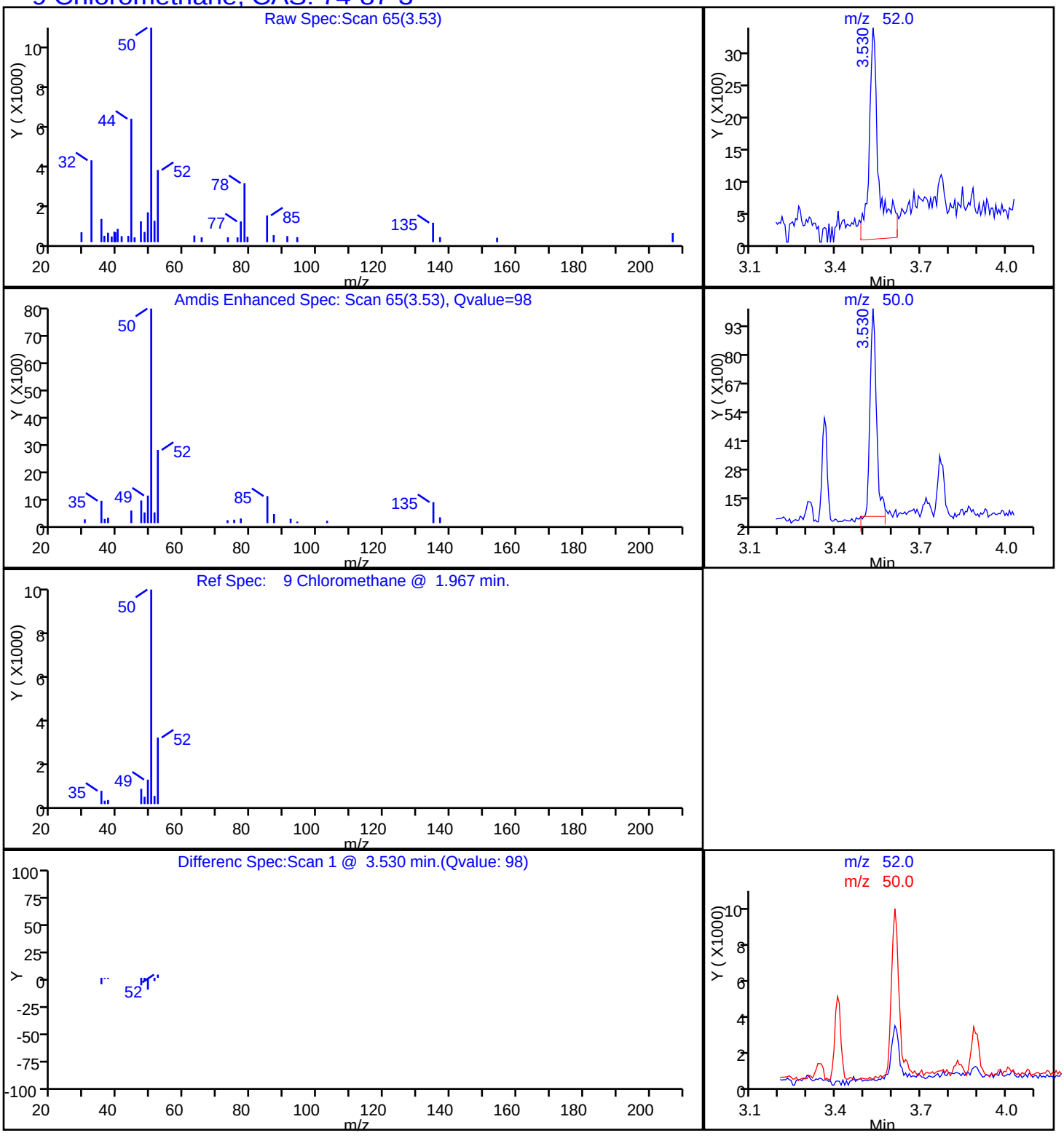
Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date: 20-Mar-2014 21:45:30 Instrument ID: ME

Lims ID: 140-1060-A-10 Lab Sample ID: 140-1060-10

Client ID: PCV-IA2-B17

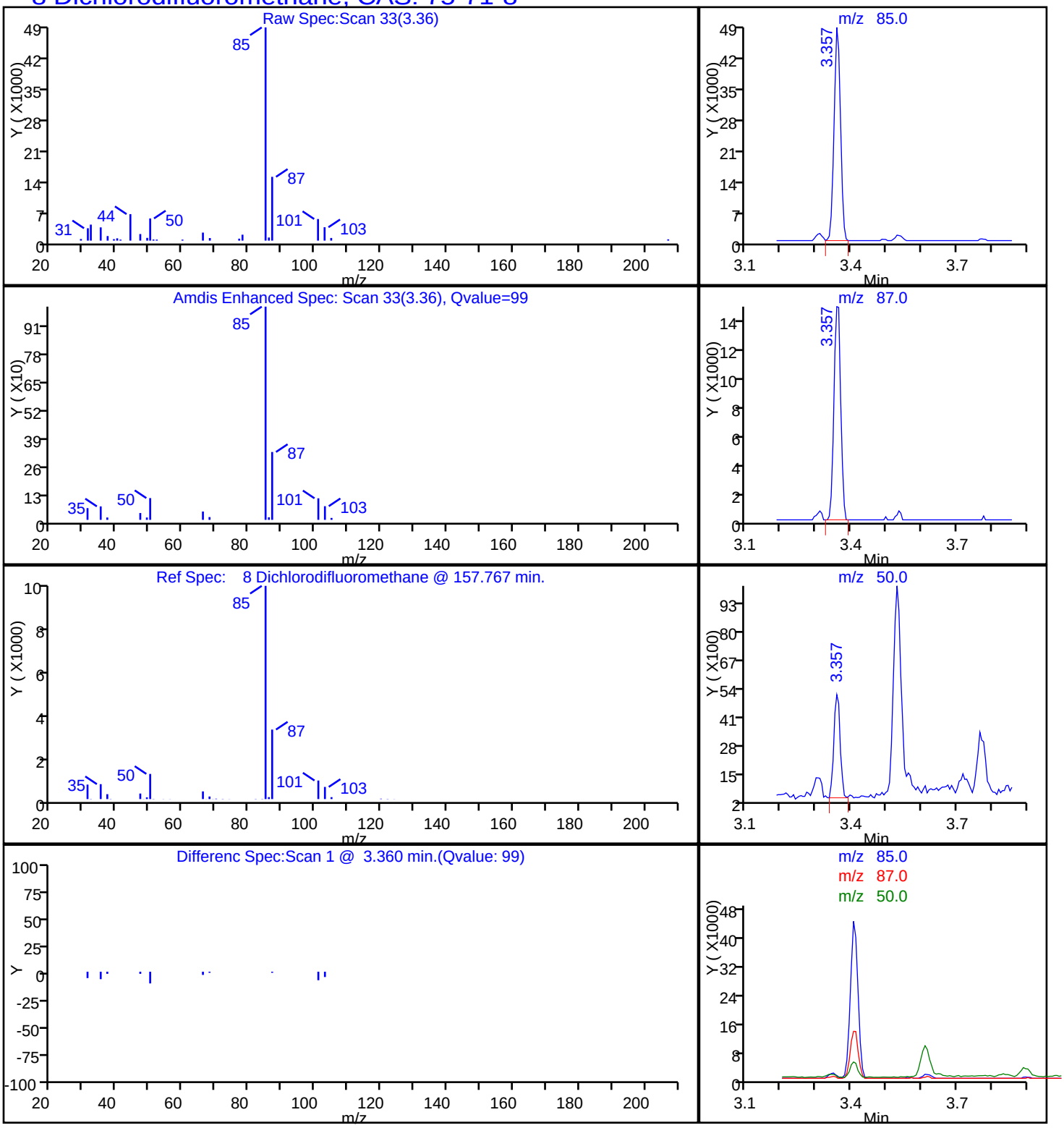
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



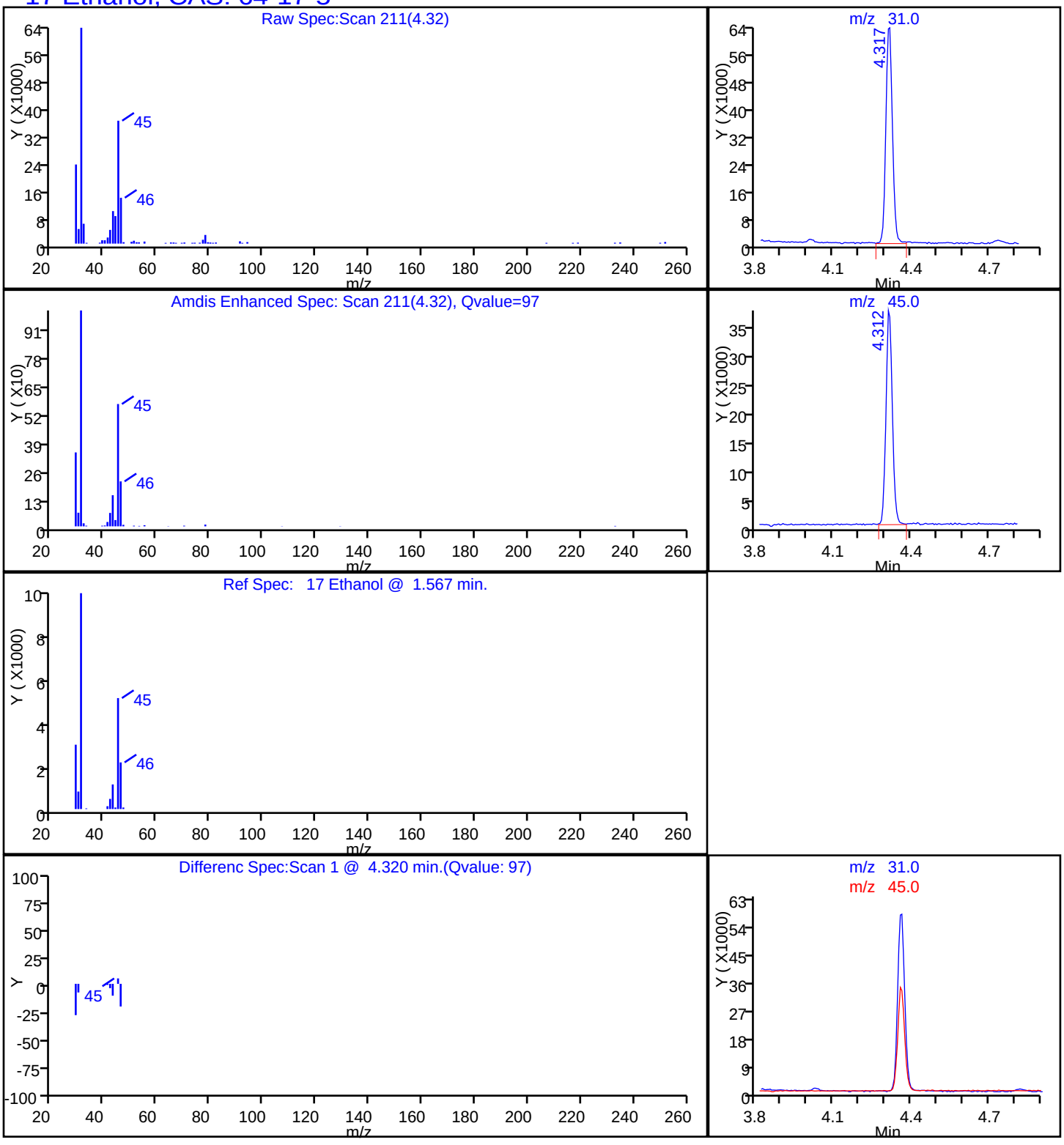
Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



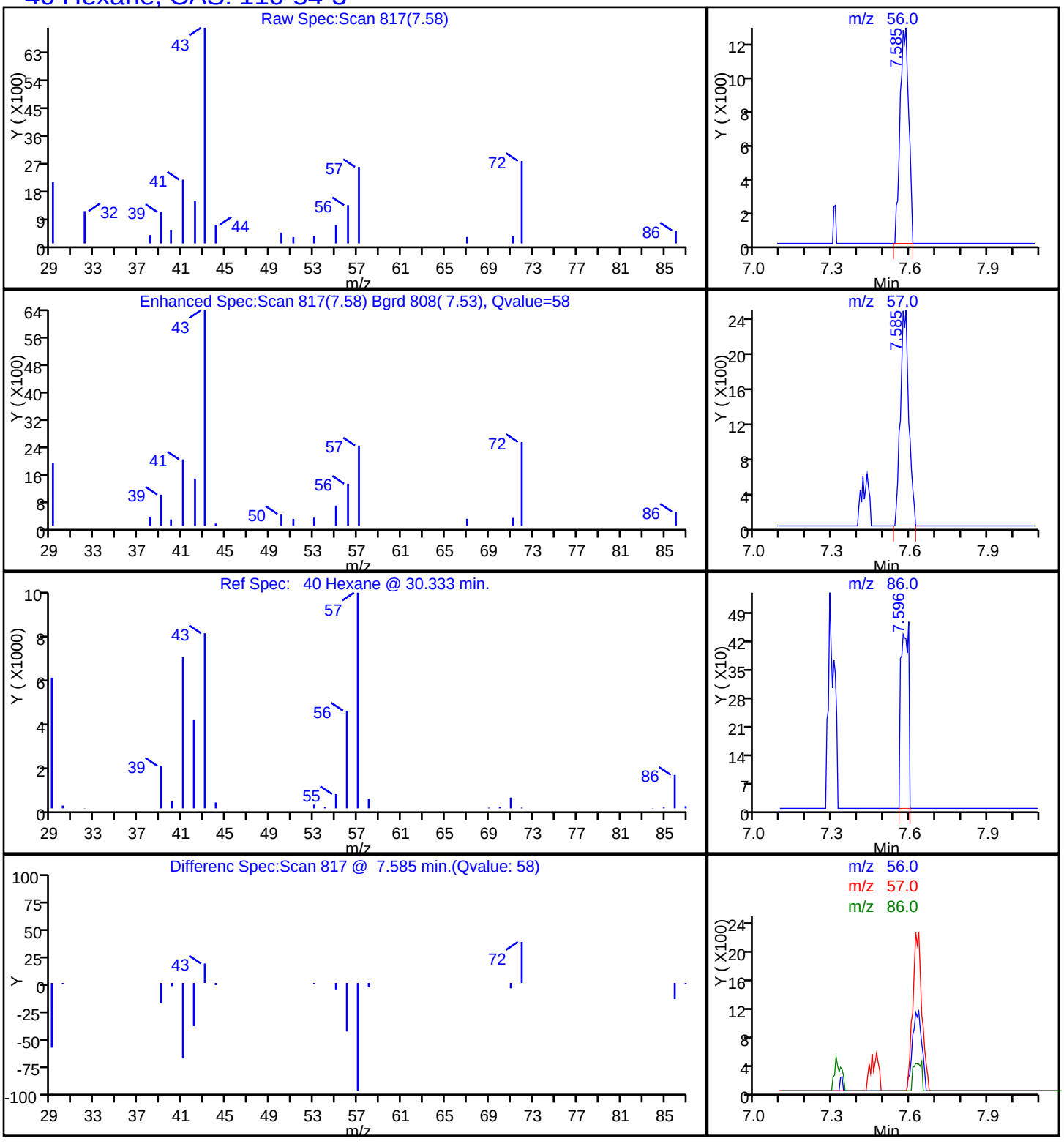
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



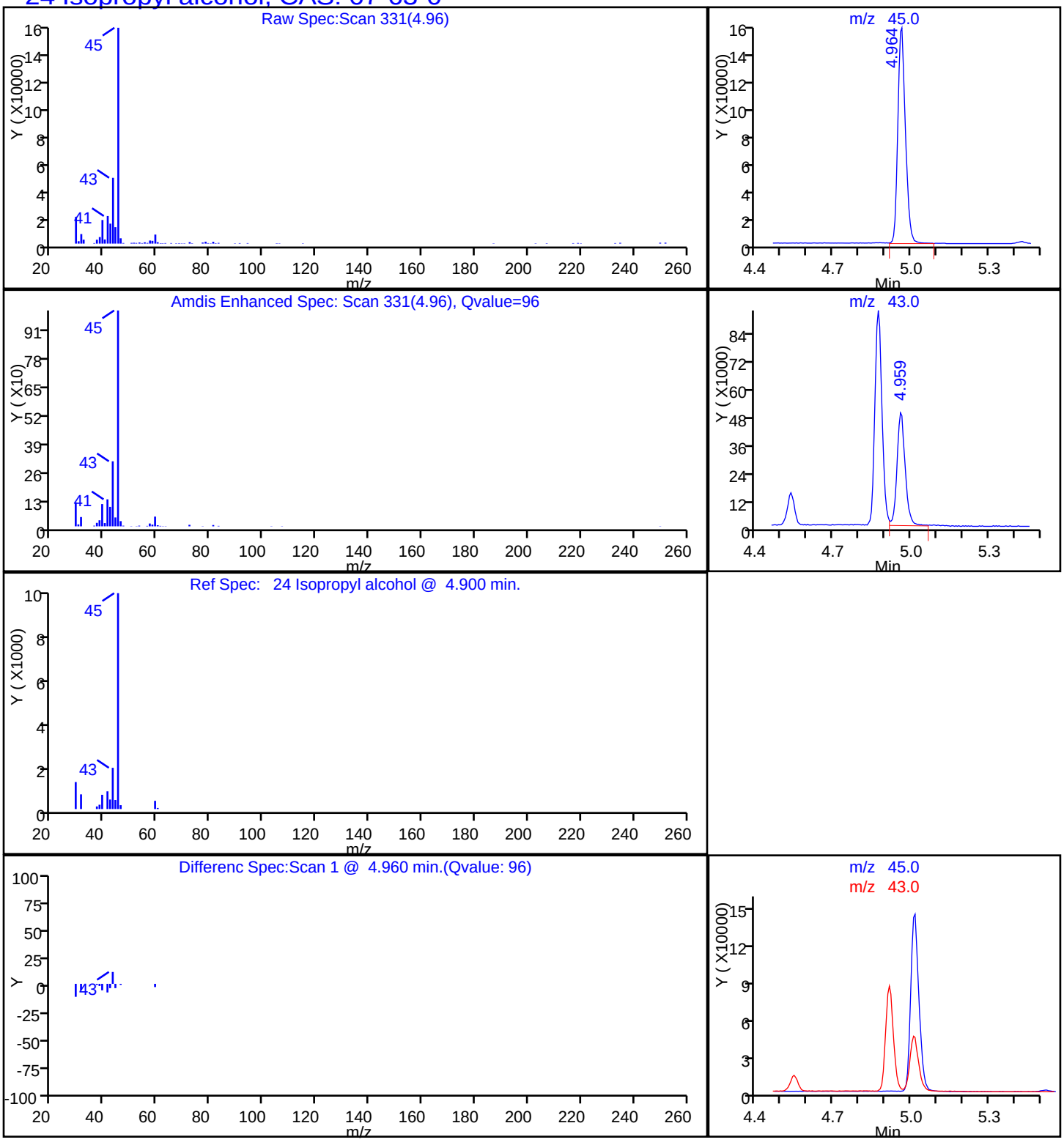
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



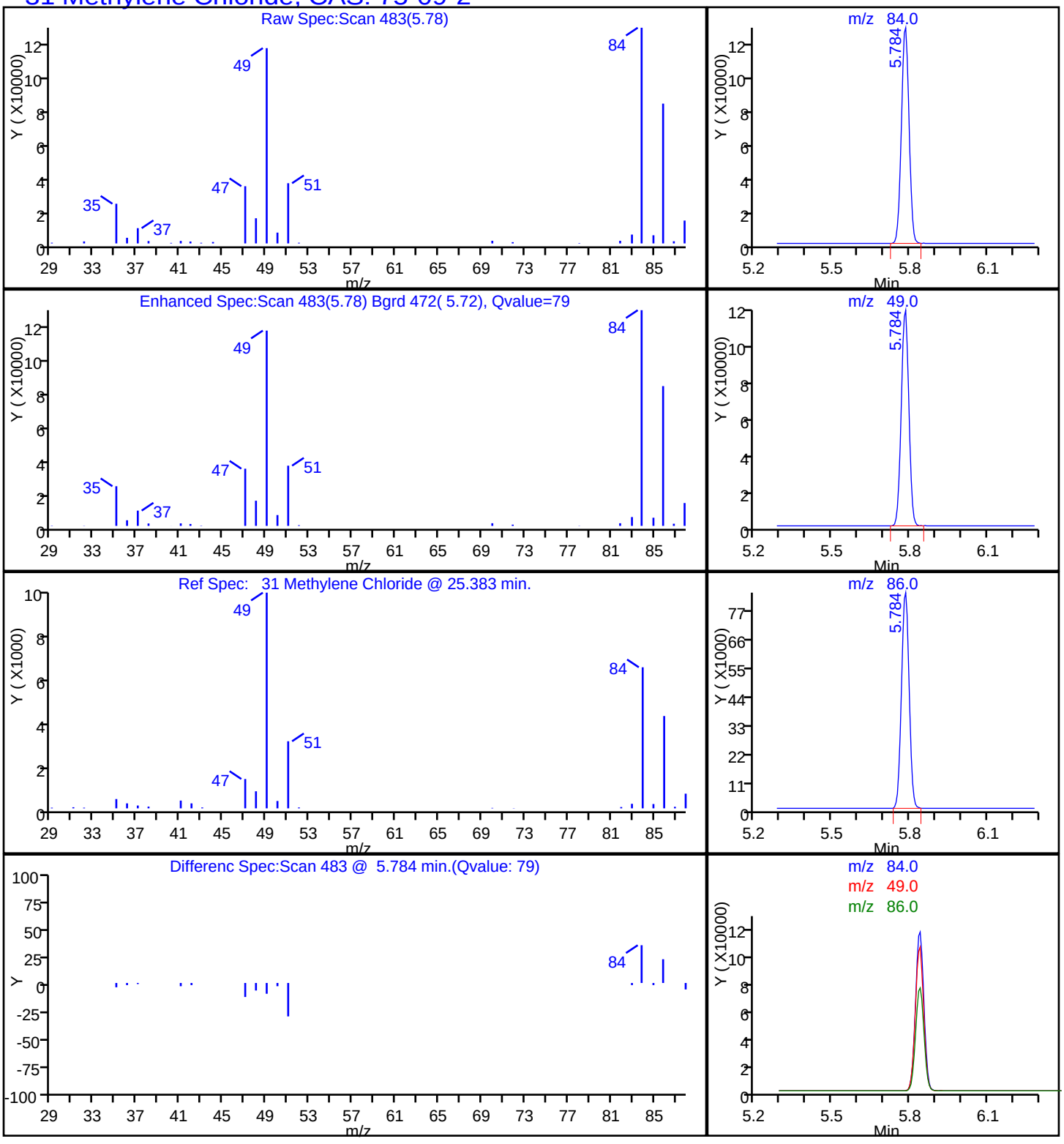
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



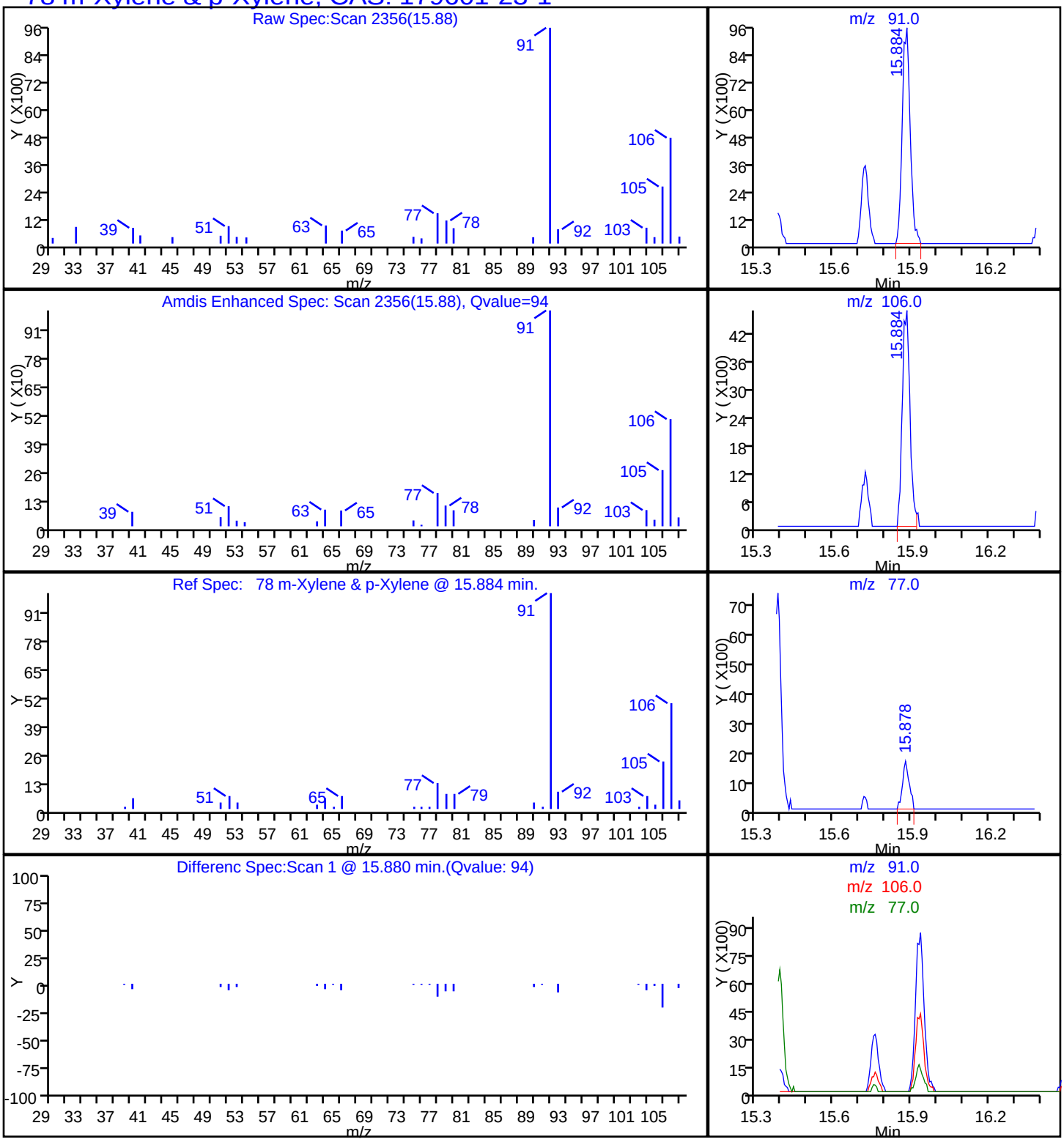
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



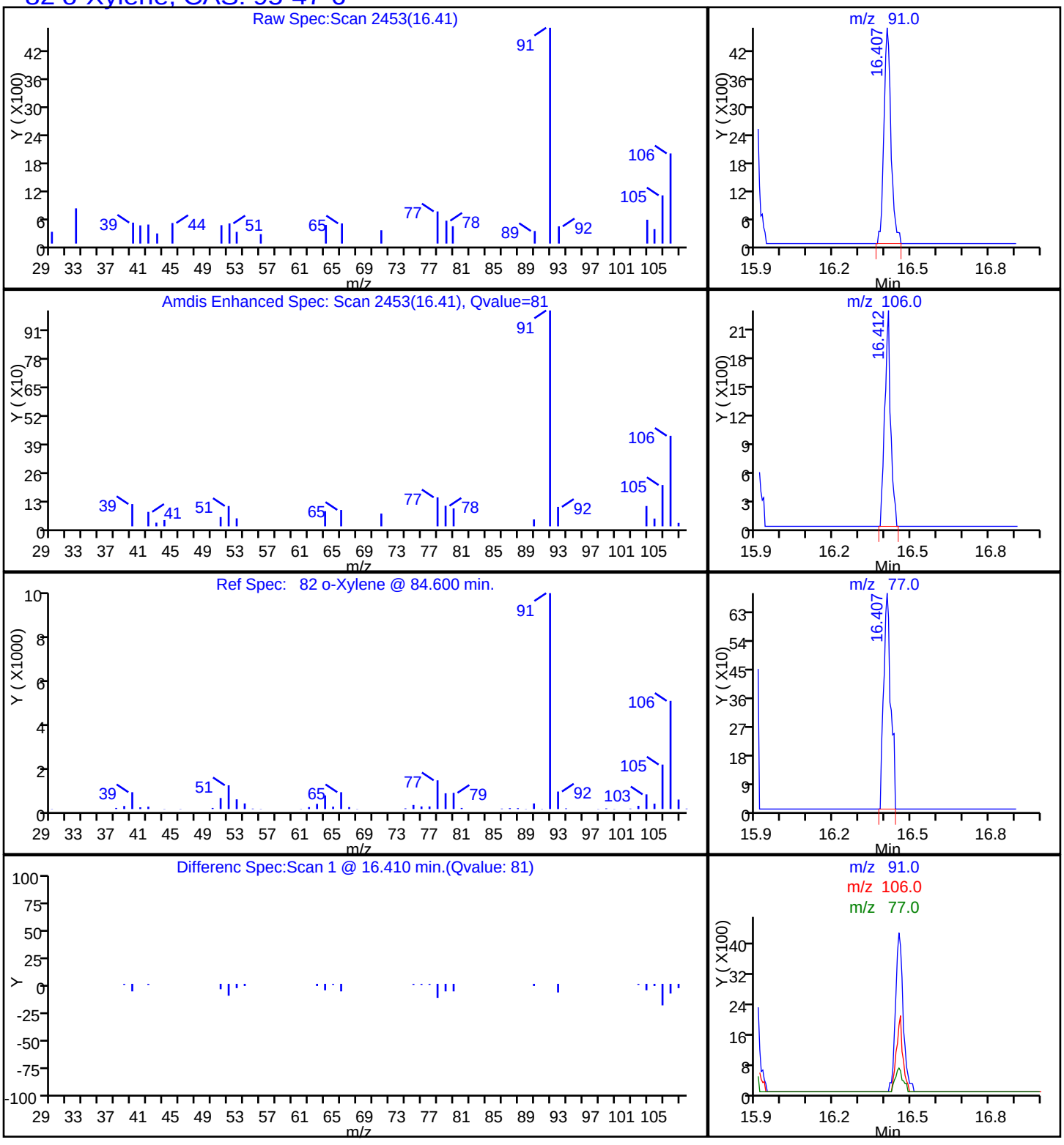
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date: 20-Mar-2014 21:45:30 Instrument ID: ME

Lims ID: 140-1060-A-10 Lab Sample ID: 140-1060-10

Client ID: PCV-IA2-B17

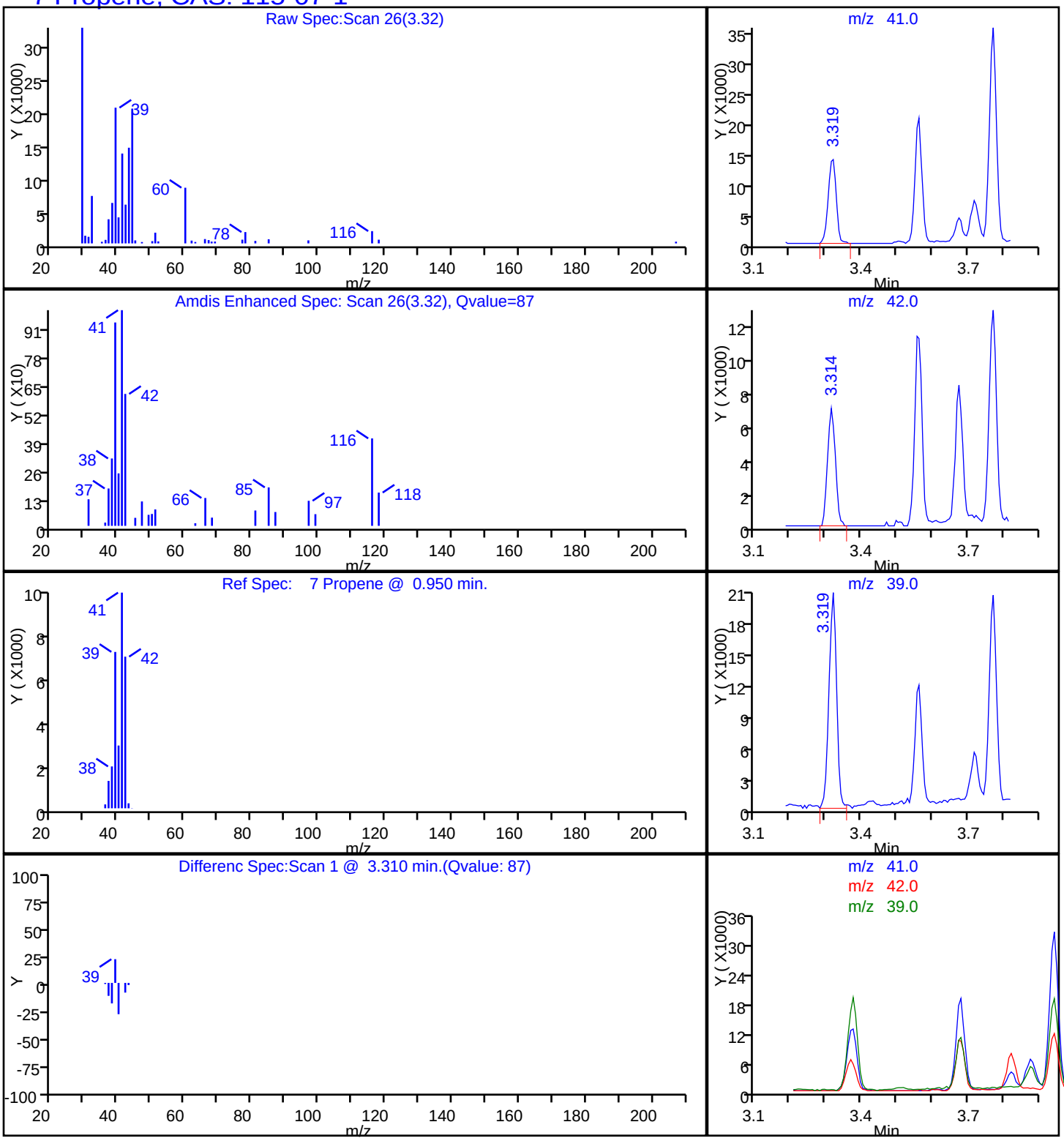
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



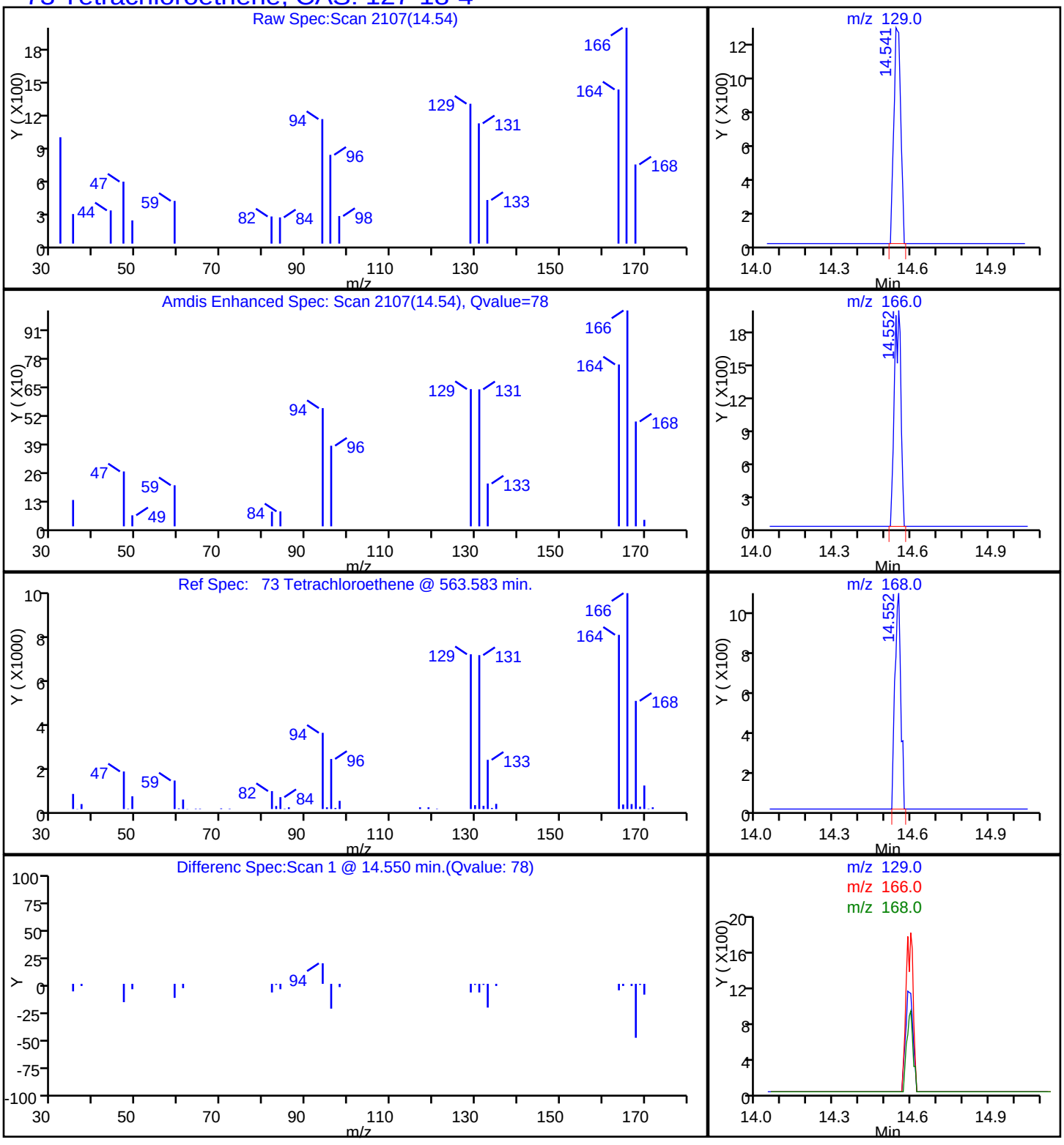
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



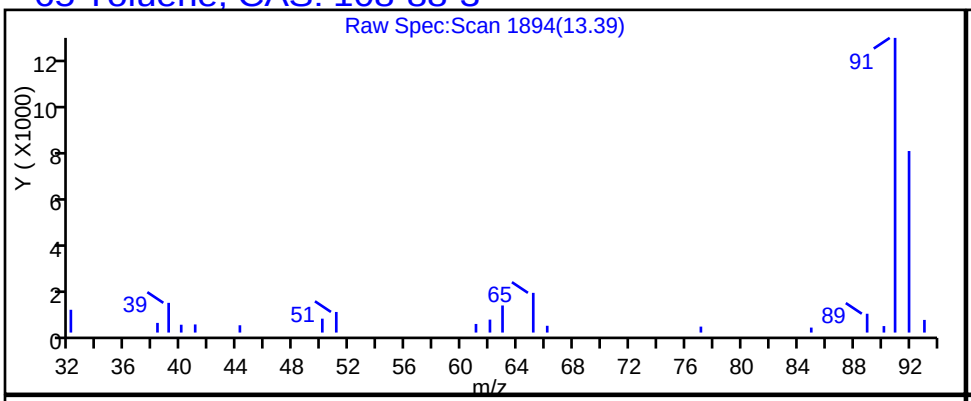
Report Date: 21-Mar-2014 09:36:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

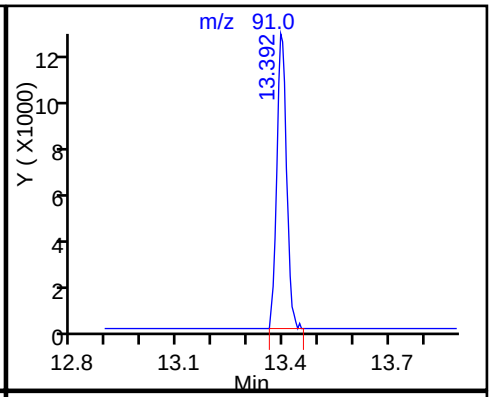
TestAmerica Knoxville

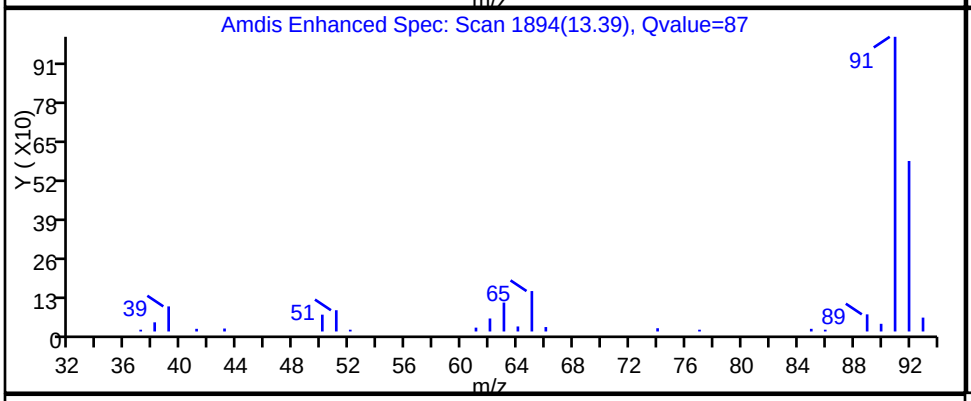
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

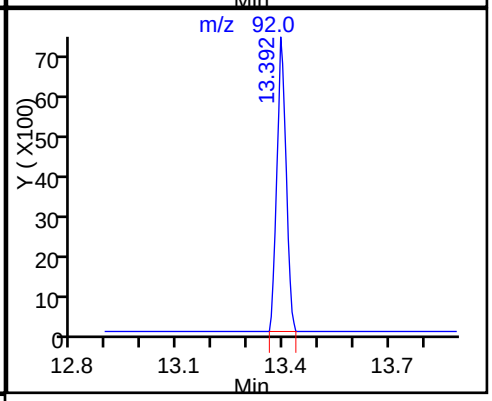
Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10
Client ID:	PCV-IA2-B17		
Operator ID:	7126	ALS Bottle#:	8 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

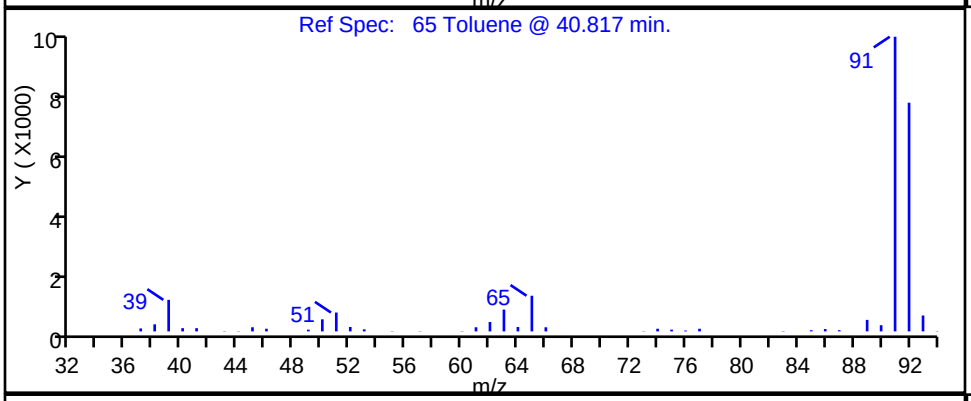
65 Toluene, CAS: 108-88-3

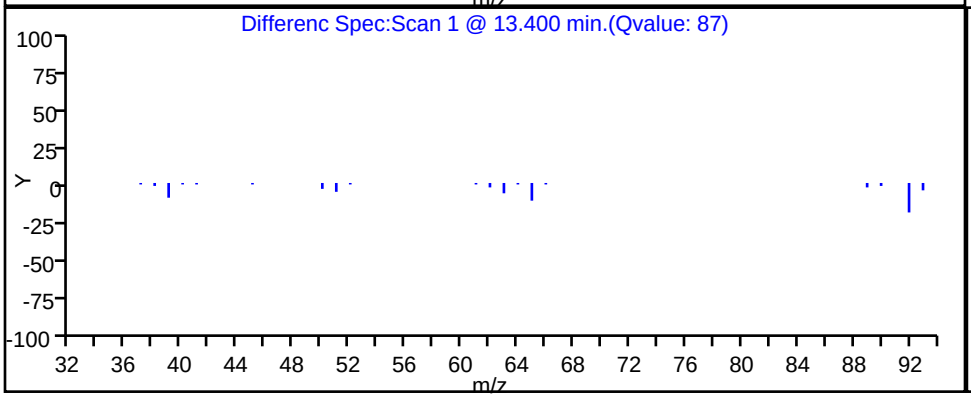


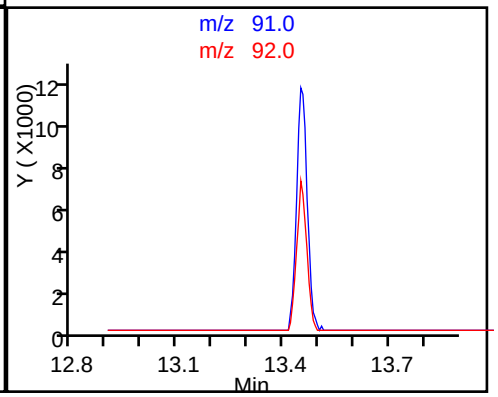












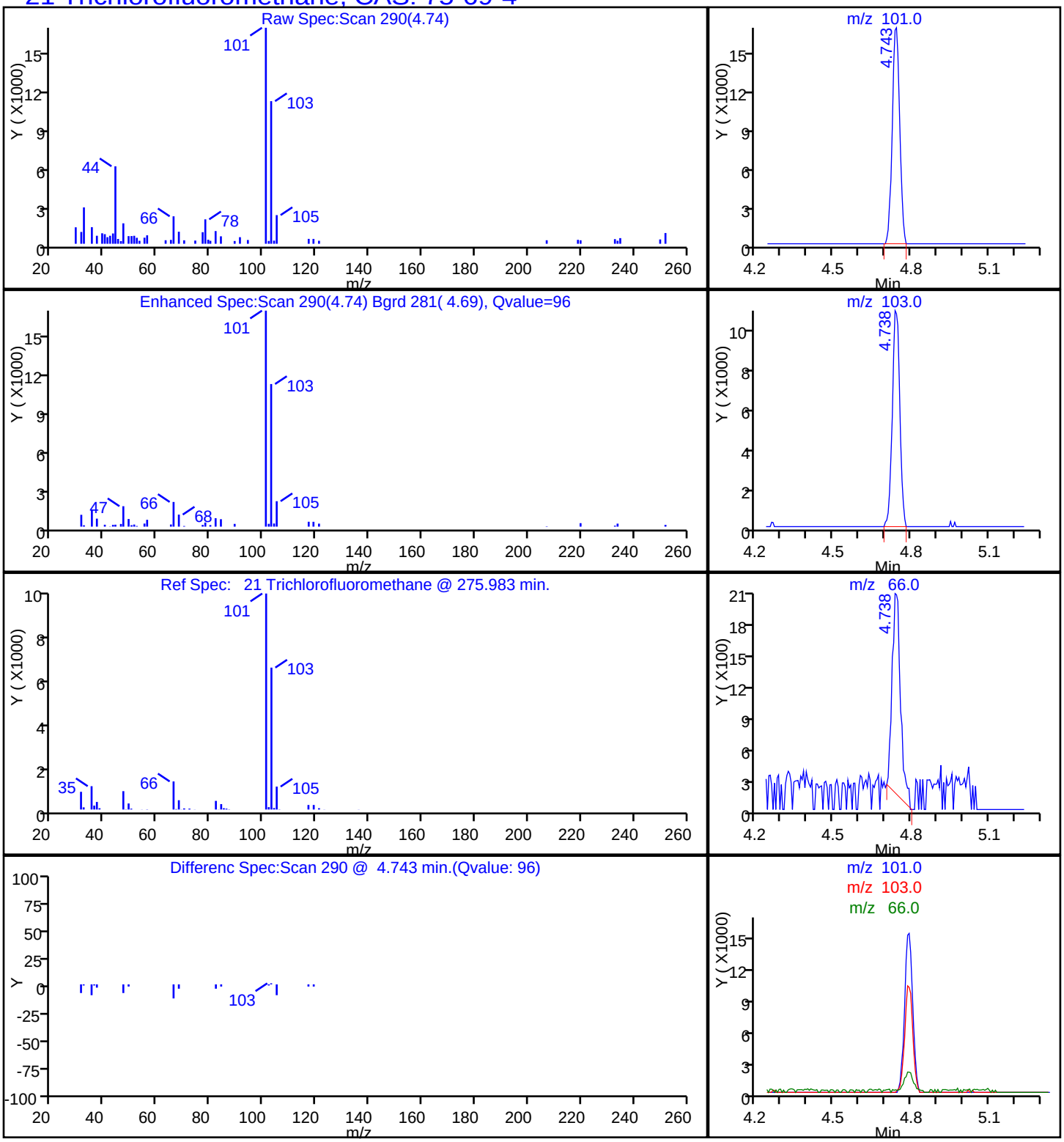
Report Date: 21-Mar-2014 09:36:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P108.D

Injection Date:	20-Mar-2014 21:45:30	Instrument ID:	ME		
Lims ID:	140-1060-A-10	Lab Sample ID:	140-1060-10		
Client ID:	PCV-IA2-B17				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.076	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.044	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.80		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.054	J	0.50	0.045
67-64-1	Acetone	58.08	2.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.18	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.073	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.098	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.41	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.046	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	13		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.8		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.6		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.92	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.052	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.16	J	0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.17	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.21	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.22	J	2.0	0.18
67-64-1	Acetone	58.08	6.2	J	12	3.3
71-43-2	Benzene	78.11	0.57	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.48	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.84	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.16	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	24		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	22		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	5.7		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.36	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.60	J	0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3FD-B17 Lab Sample ID: 140-1060-11

Matrix: Air Lab File ID: EC20P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:08

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 22:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D
Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11
Client ID: PCV-IA3FD-B17
Sample Type: Client
Inject. Date: 20-Mar-2014 22:30:30 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-11
Misc. Info.: E032014,TO155,,140-0000533-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:36:58 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:36:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	290349	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1339510	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1103276	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	917961	3.80	
7 Propene	41	3.320	3.314	0.006	83	26772	0.3665	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	57681	0.1796	
9 Chloromethane	52	3.530	3.530	0.0	97	4160	0.1623	
13 Butadiene	54	3.773	3.772	0.001	29	2090	0.0305	
17 Ethanol	31	4.317	4.317	0.0	98	145640	5.02	
19 2-Methylbutane	43	4.533	4.538	-0.005	85	32720	0.3218	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	36471	0.1132	
23 Acetone	58	4.878	4.883	-0.005	99	45942	1.04	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	96	400529	3.54	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	70	5356	0.0269	
31 Methylene Chloride	84	5.784	5.789	-0.005	77	54503	0.6569	
40 Hexane	56	7.585	7.585	0.0	81	4627	0.0599	
43 Chloroform	83	8.340	8.356	-0.016	18	9738	0.0391	
49 Cyclohexane	69	9.995	9.984	0.011	41	928	0.0184	
48 Benzene	78	9.985	9.995	-0.010	94	19102	0.0709	
50 Carbon tetrachloride	117	10.012	10.017	-0.005	89	7552	0.0292	
53 Isooctane	57	10.772	10.788	-0.016	70	7307	0.0176	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	76	3416	0.0215	
65 Toluene	91	13.398	13.398	0.0	83	18964	0.0642	
73 Tetrachloroethene	129	14.546	14.552	-0.006	79	2637	0.0209	

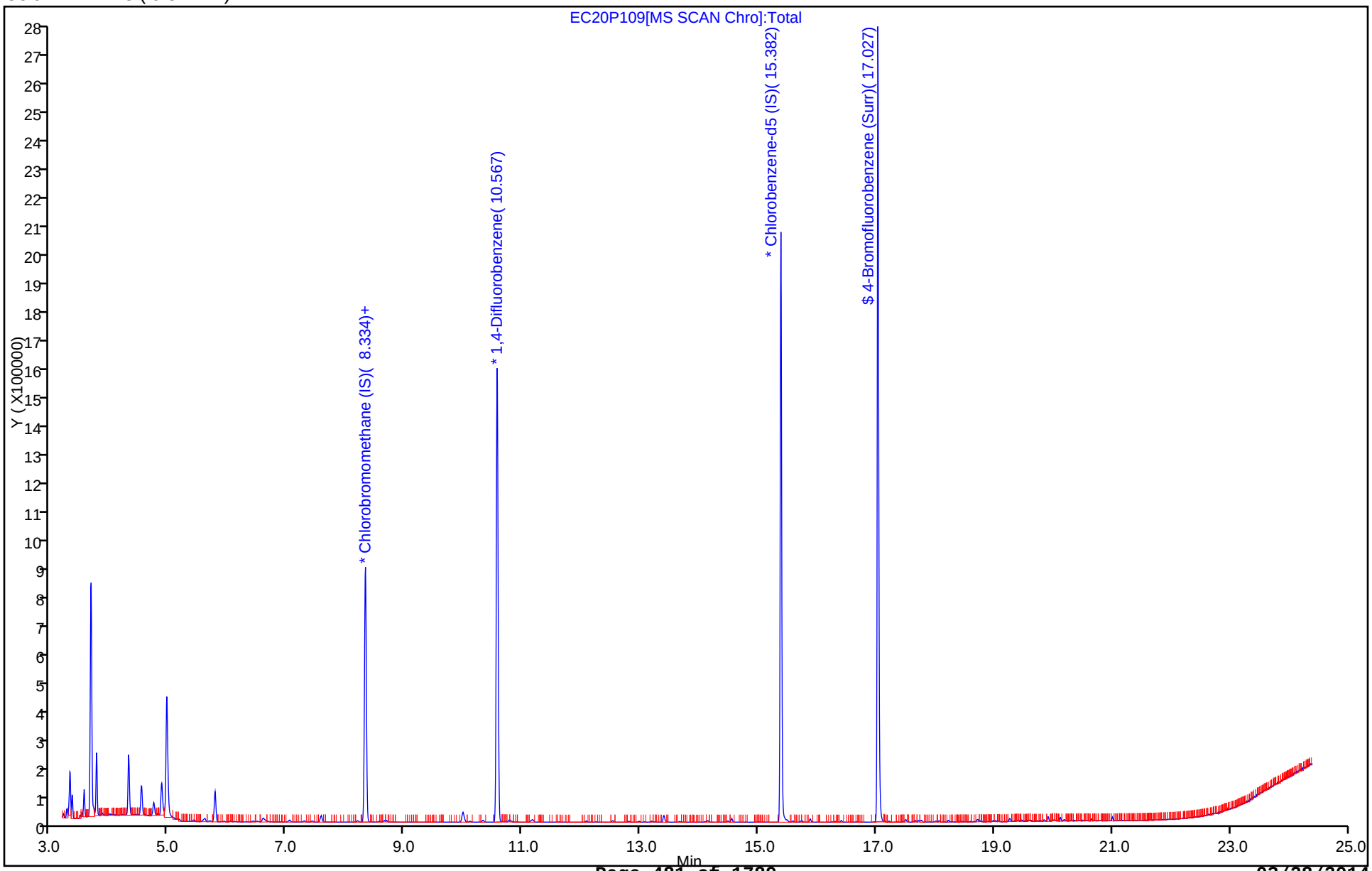
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11	Worklist Smp#:	13
Client ID:	PCV-IA3FD-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

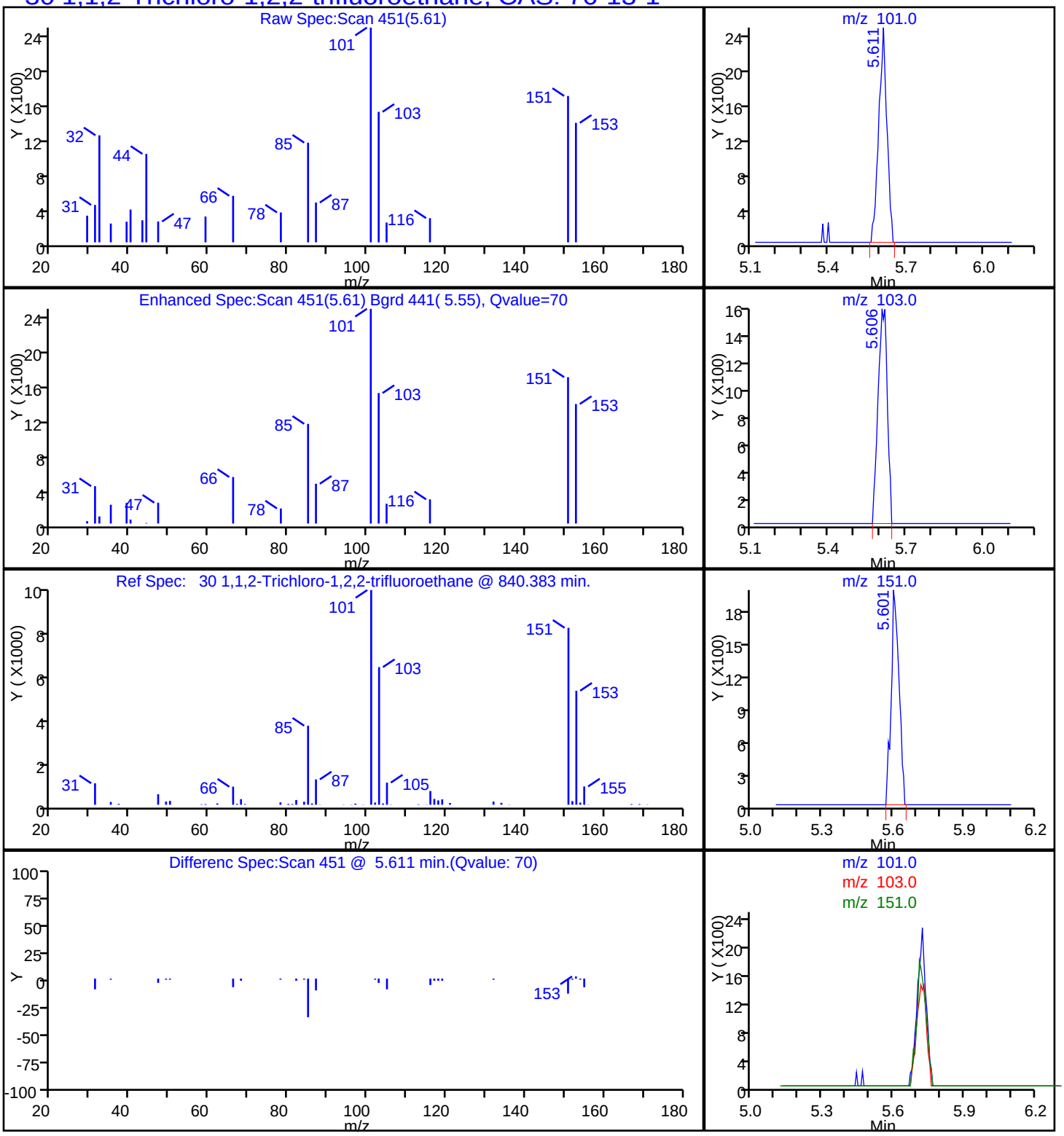
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



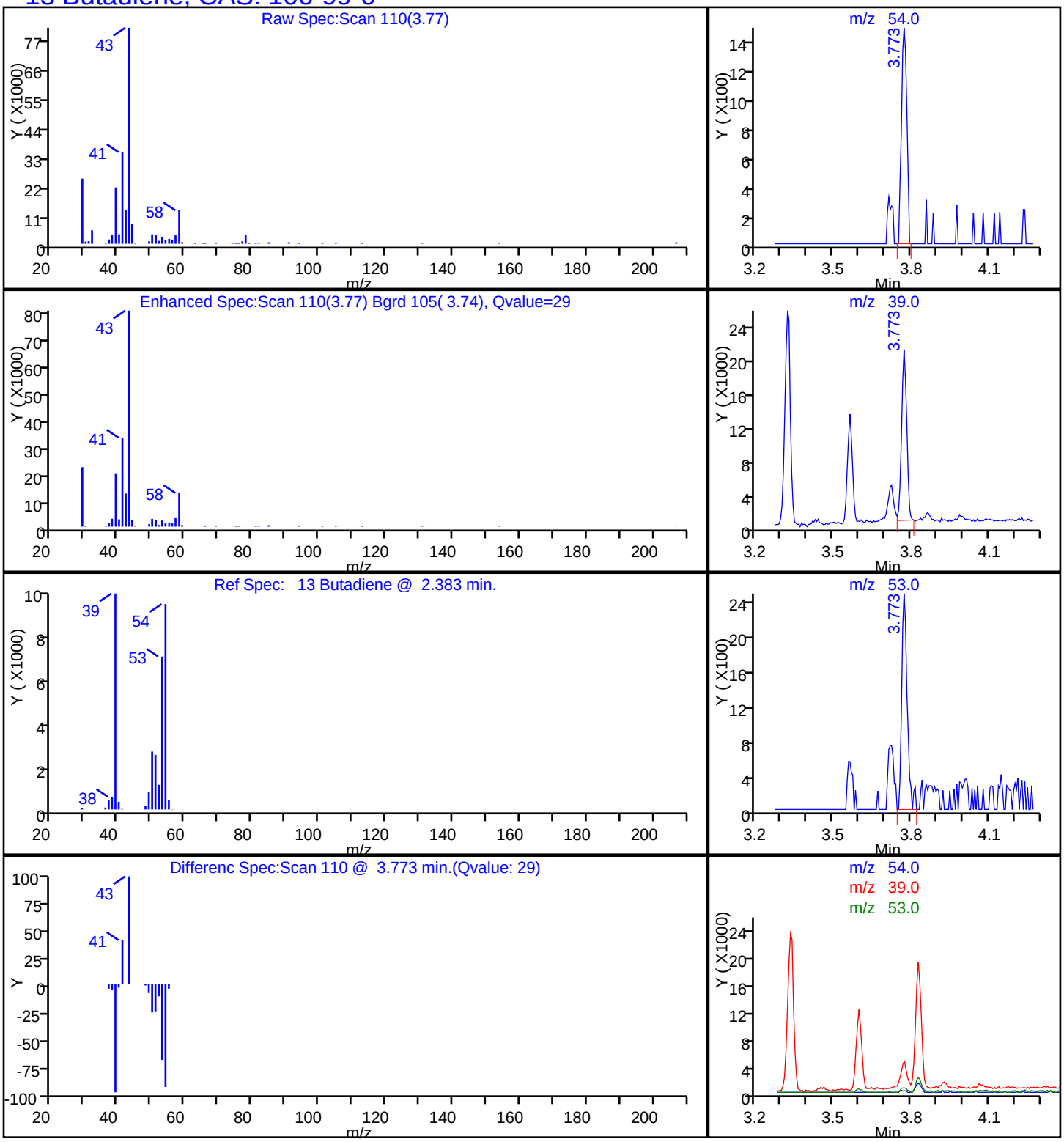
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0



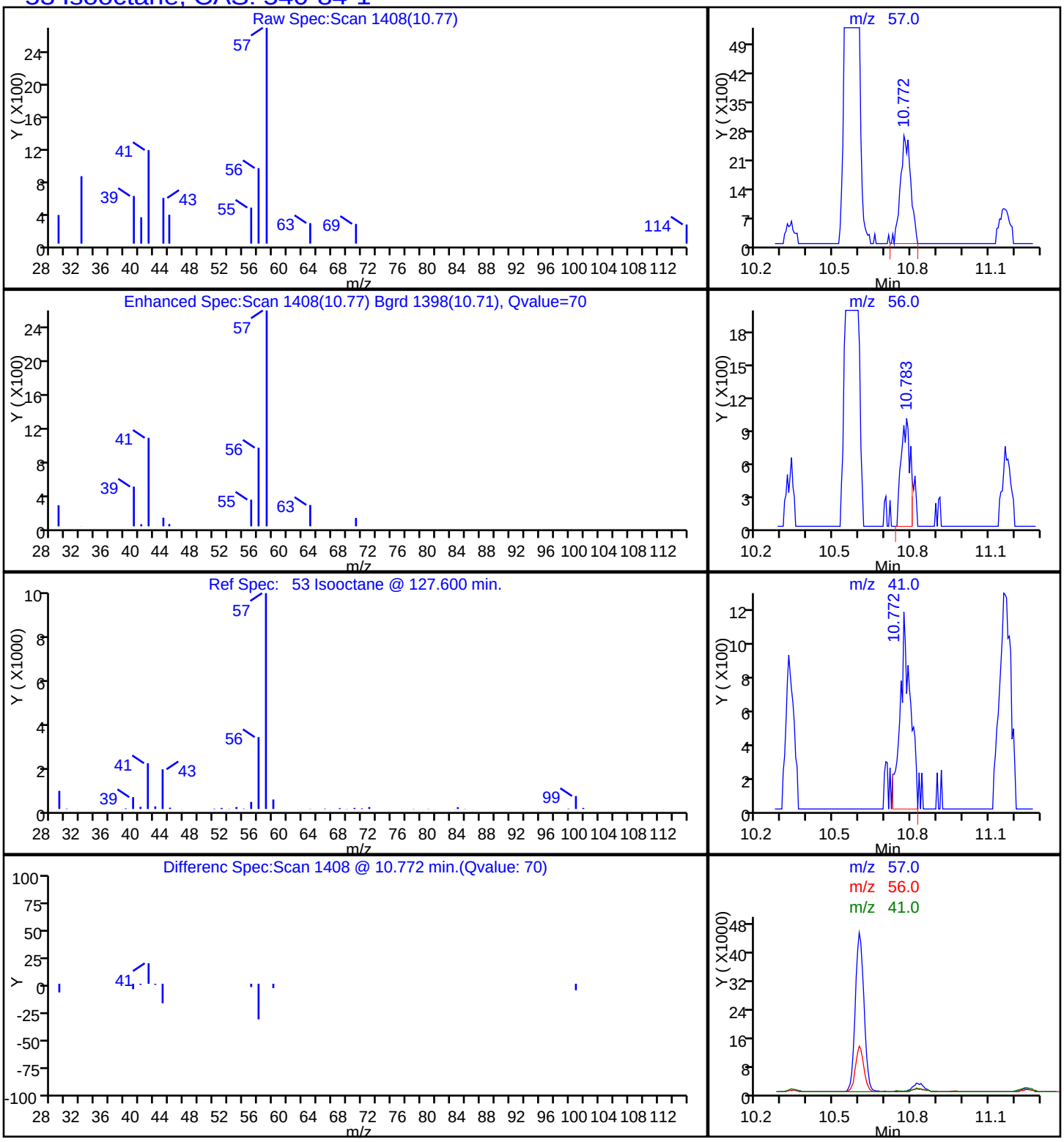
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



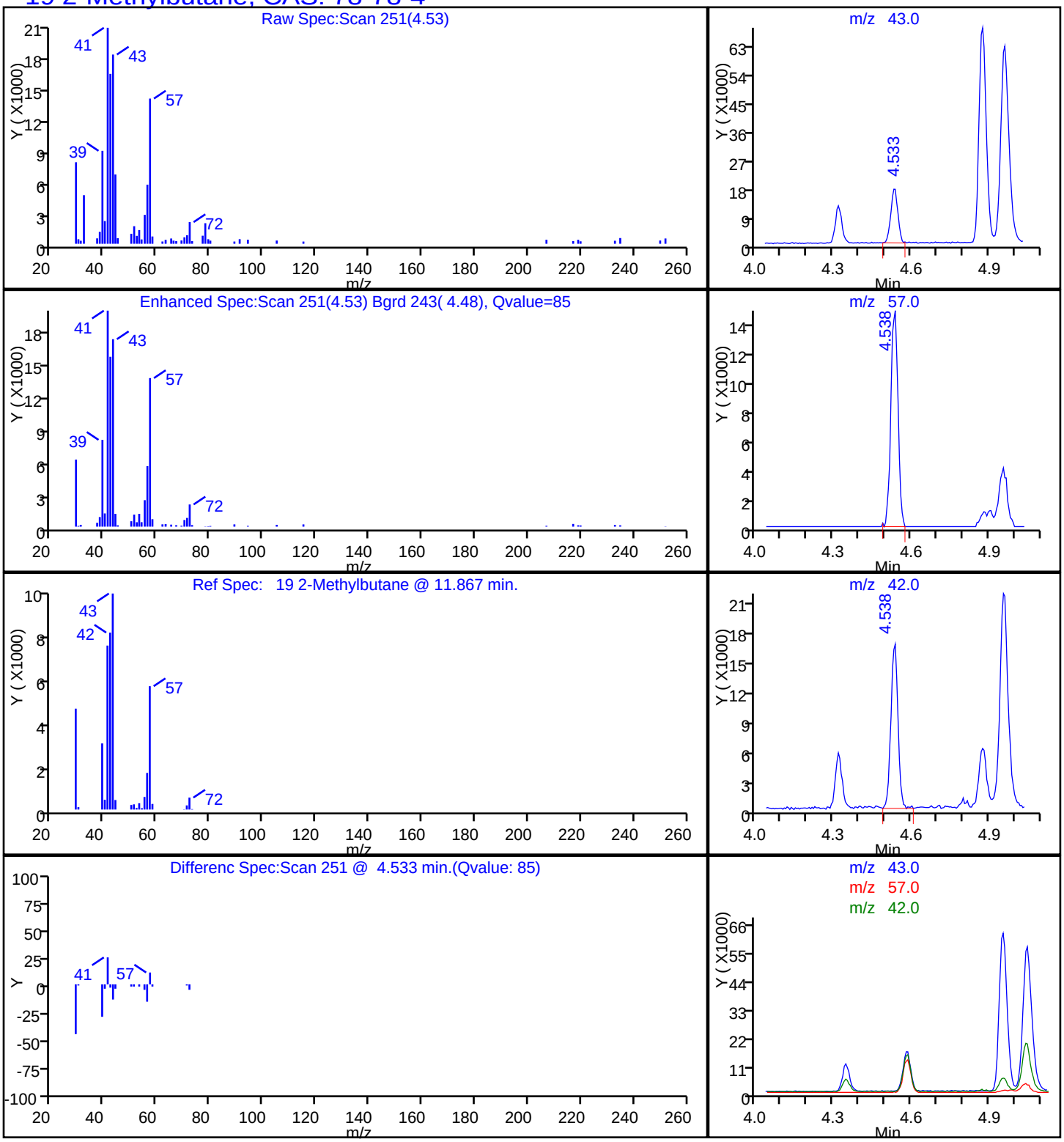
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

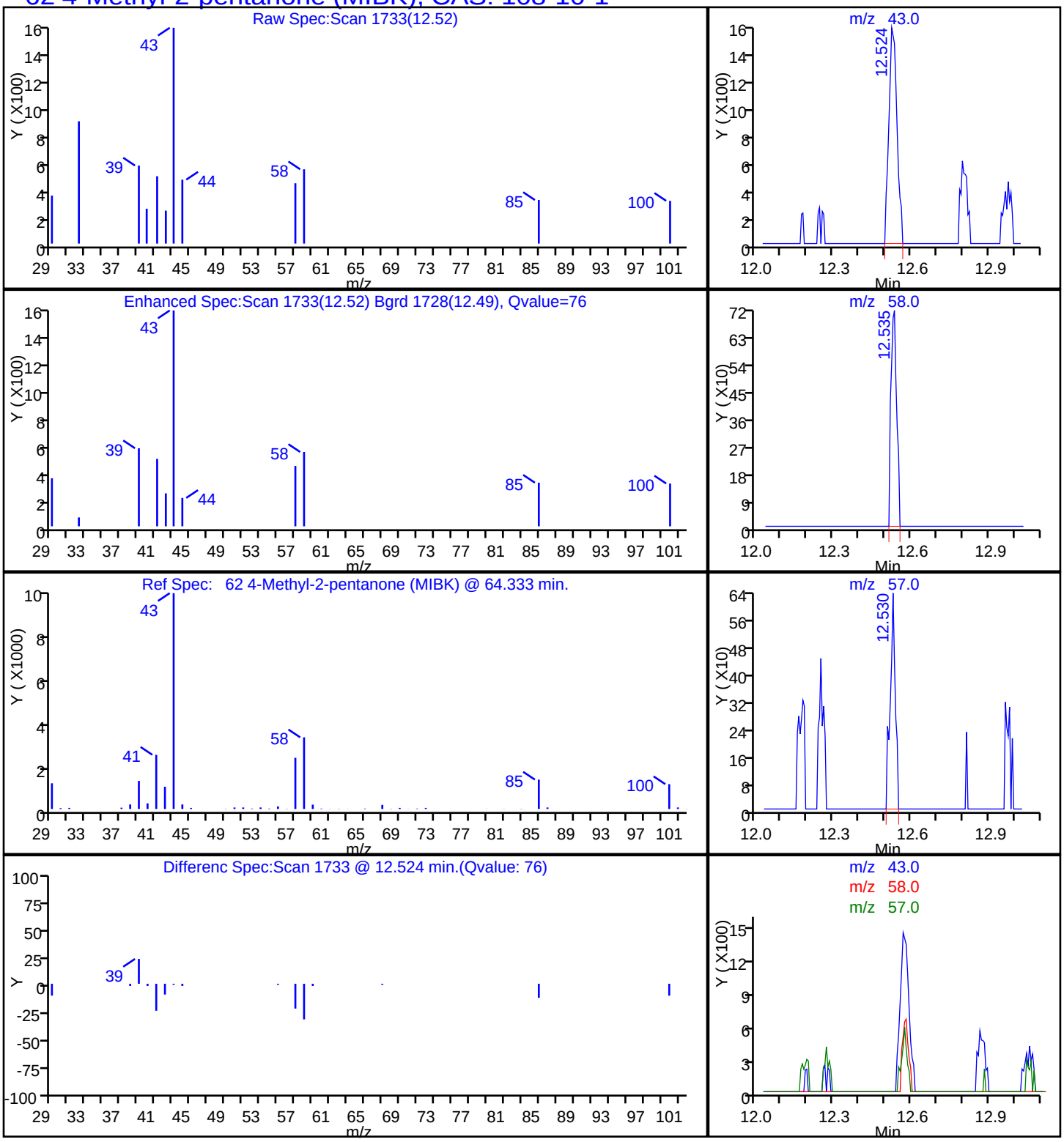
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

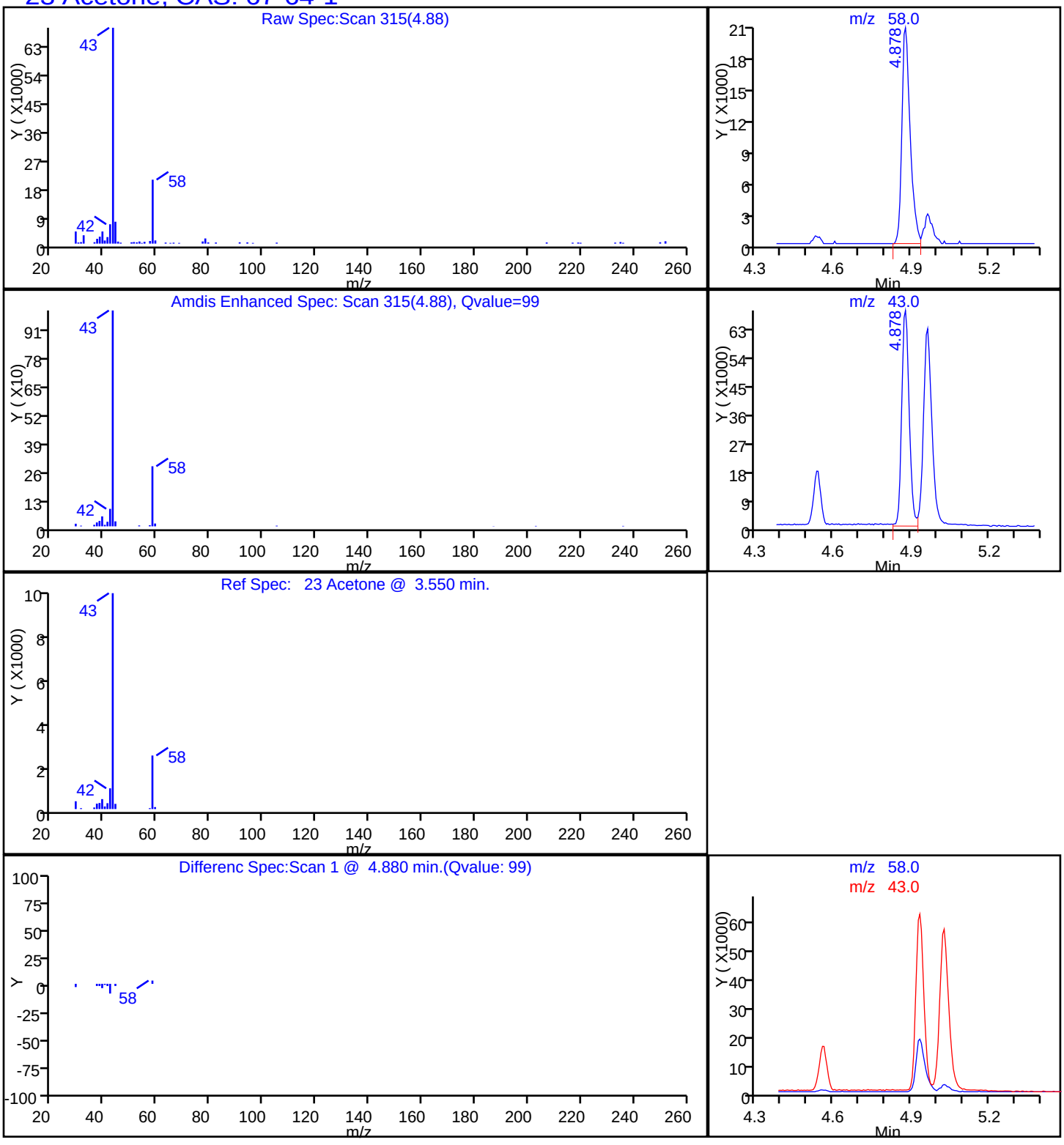


Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D		
Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

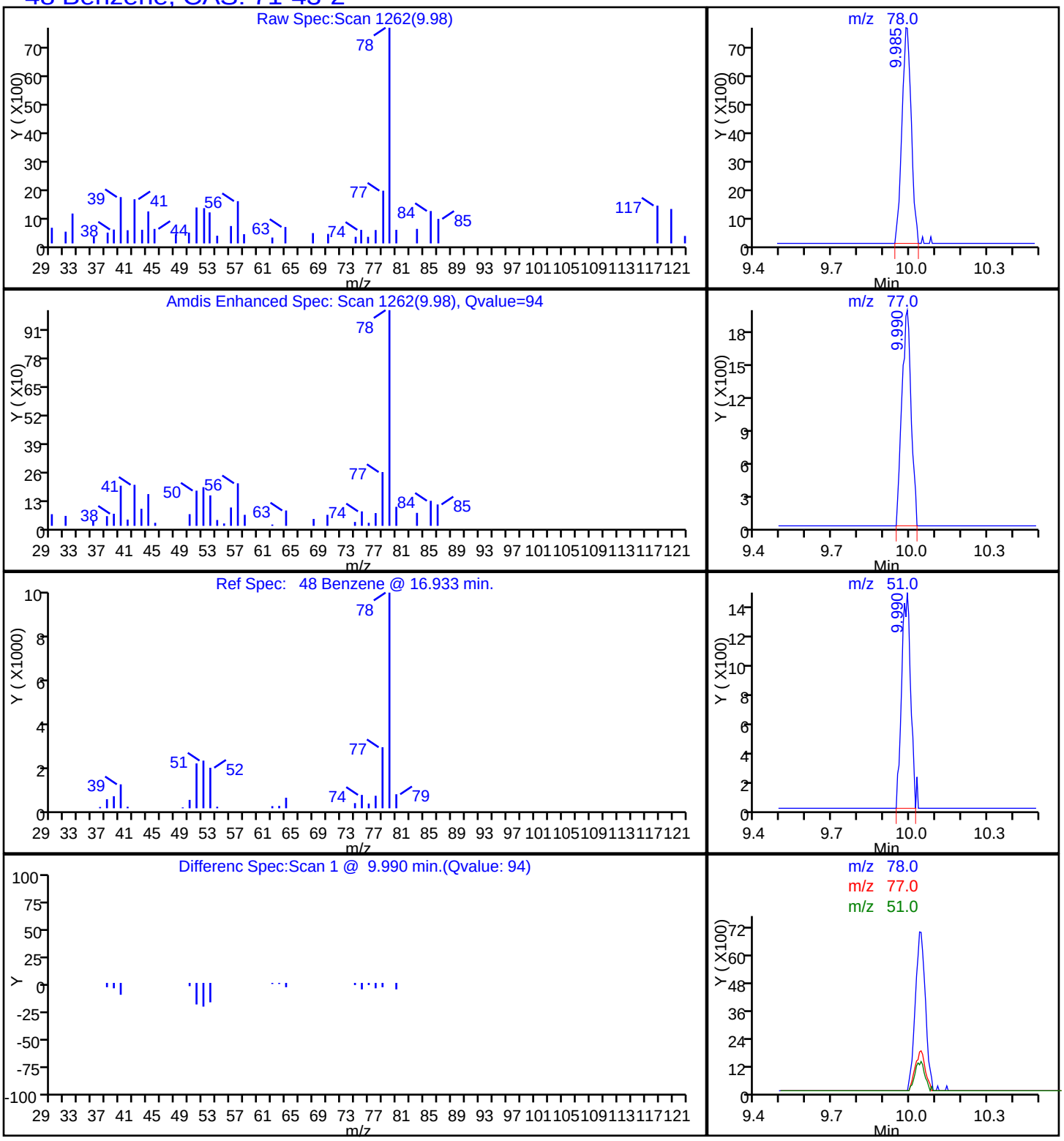
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

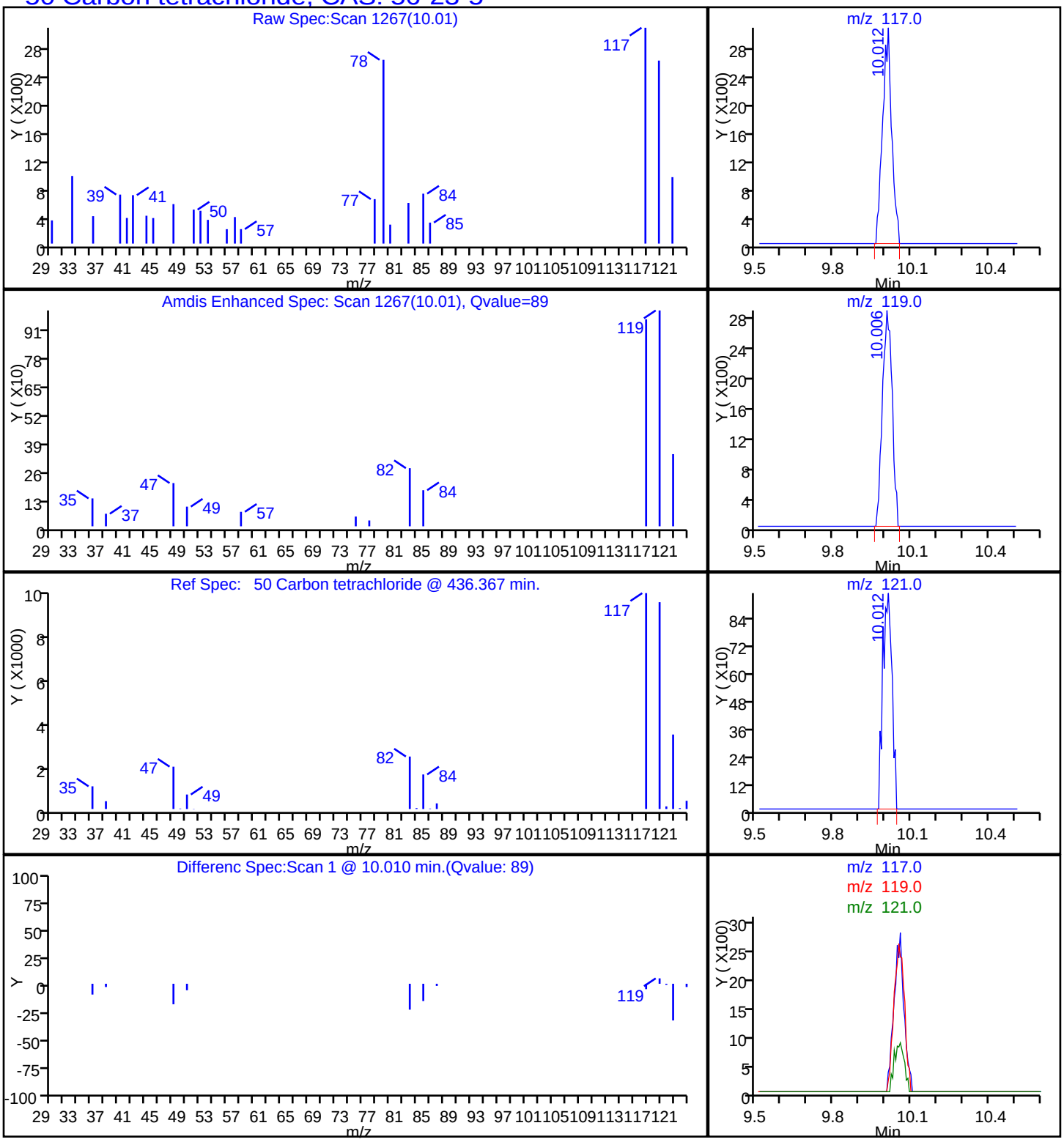
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

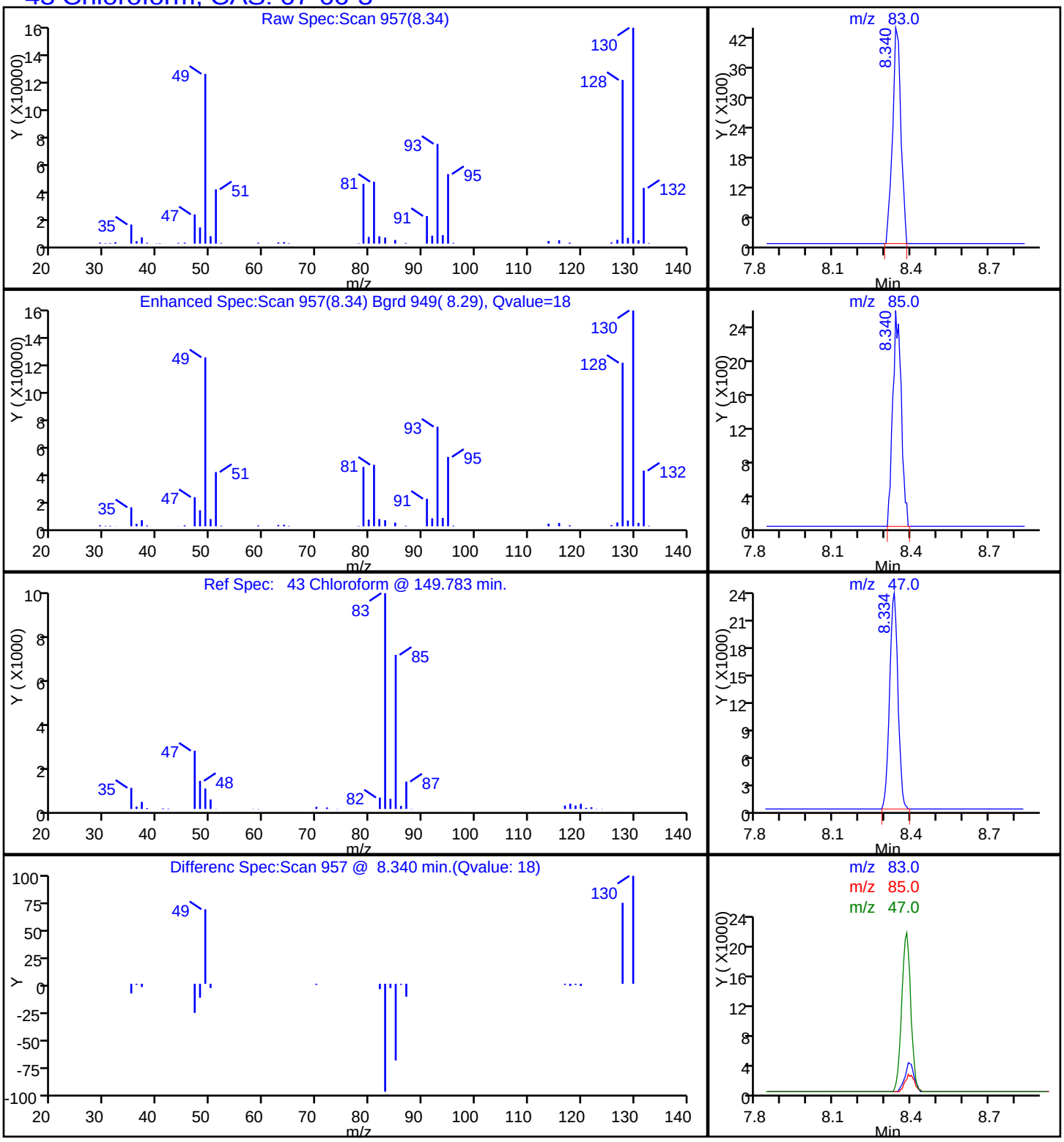
50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D				
Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME		
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11		
Client ID:	PCV-IA3FD-B17				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



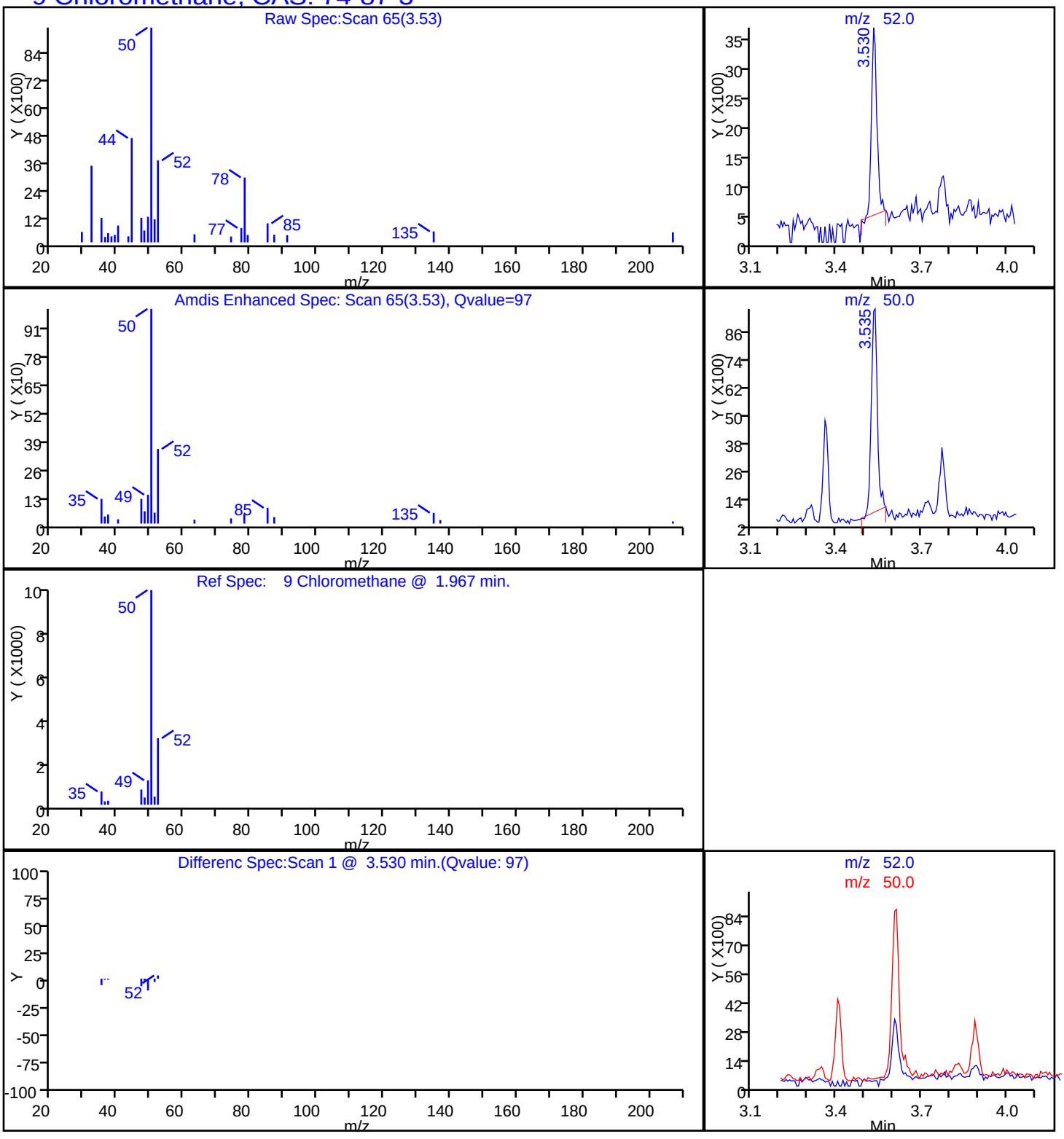
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

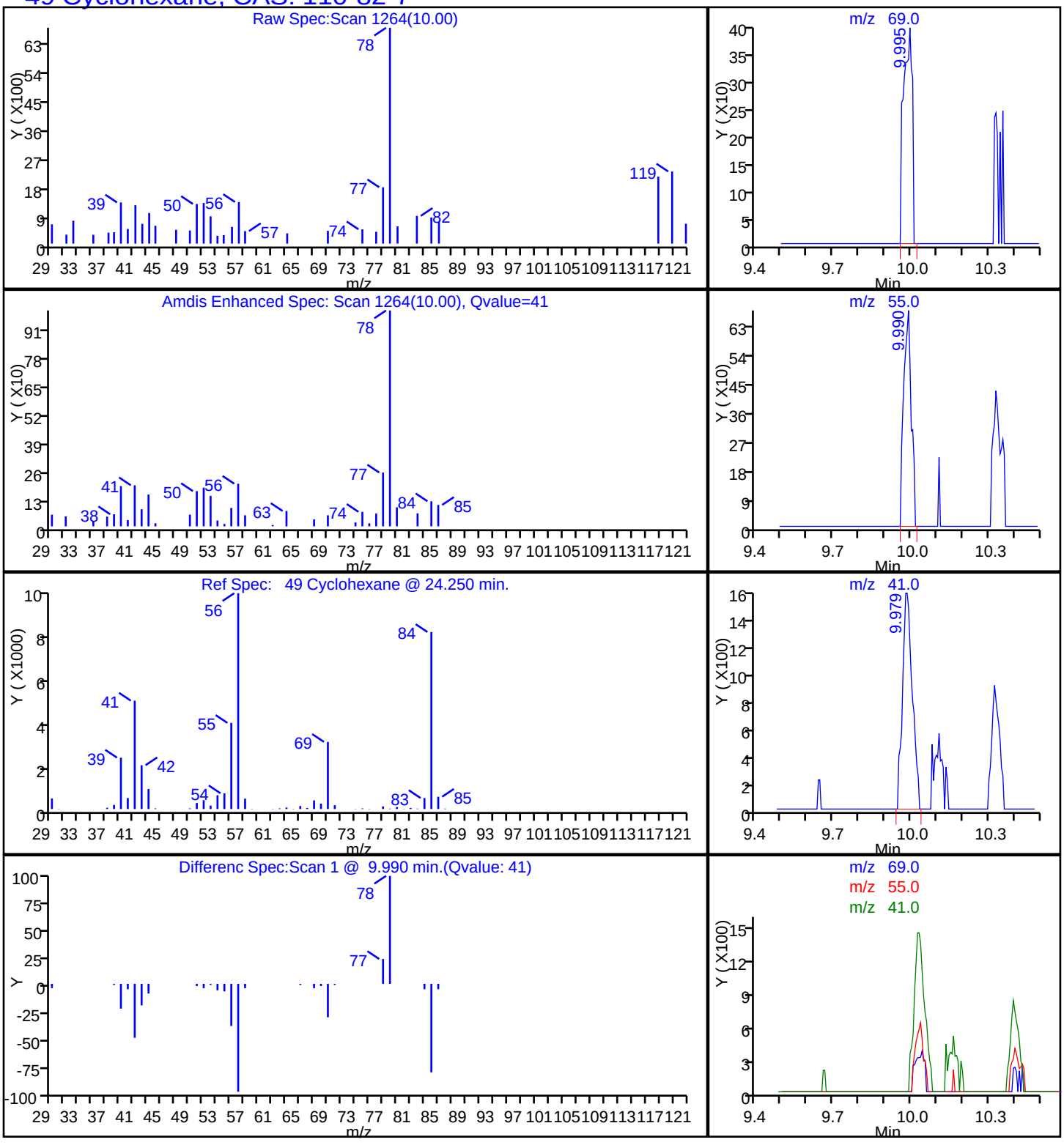
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

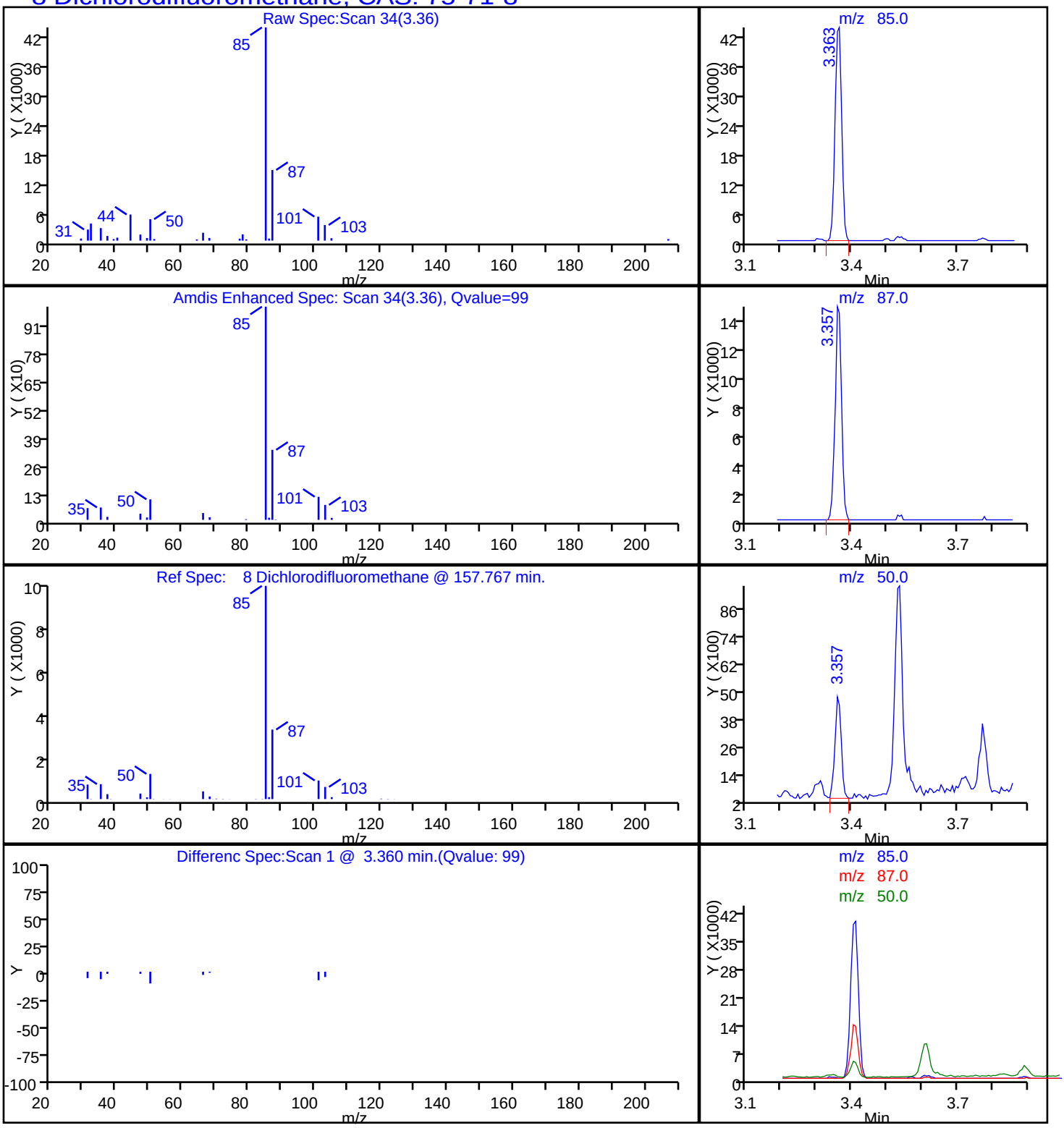
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

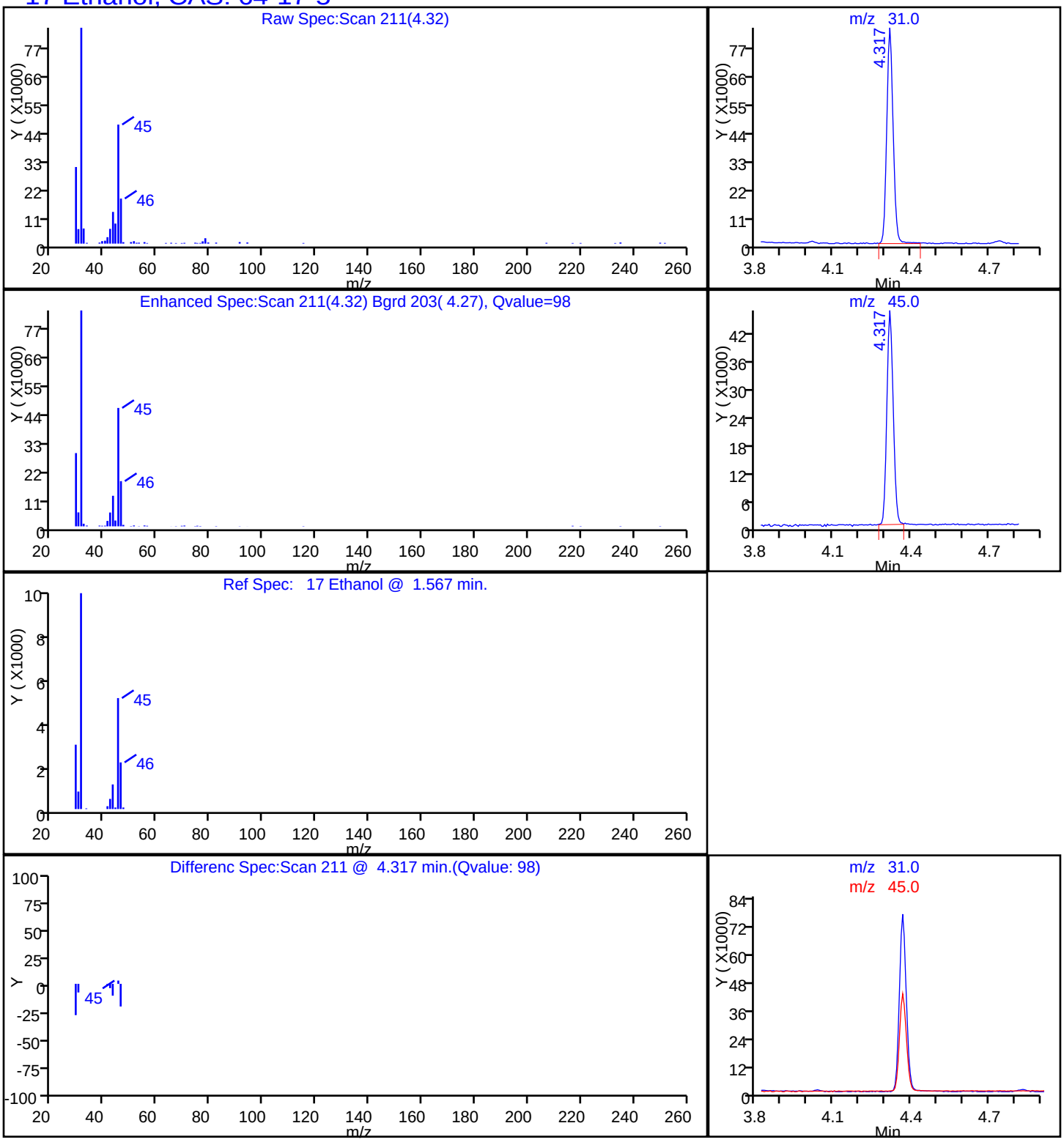
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5



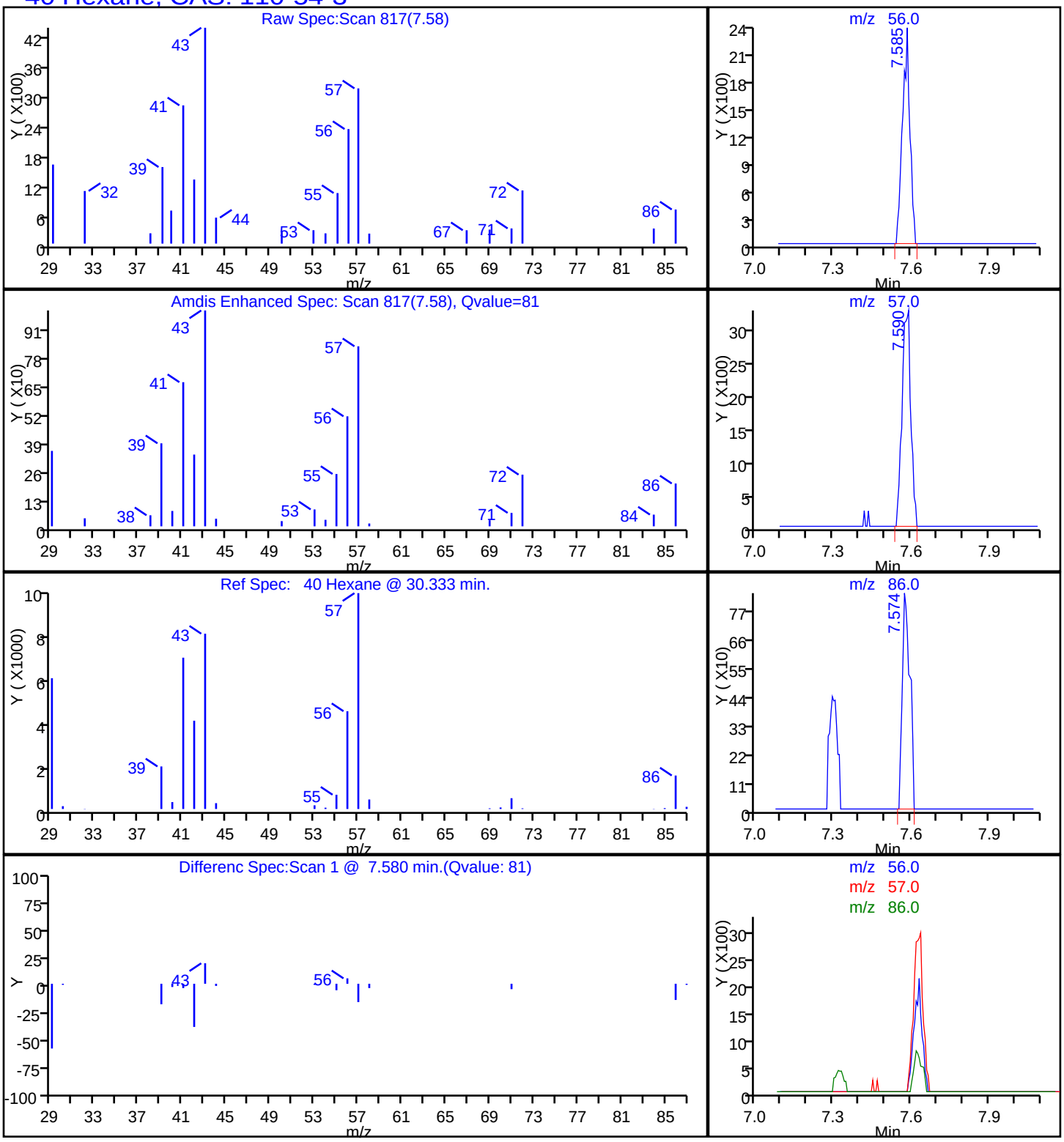
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



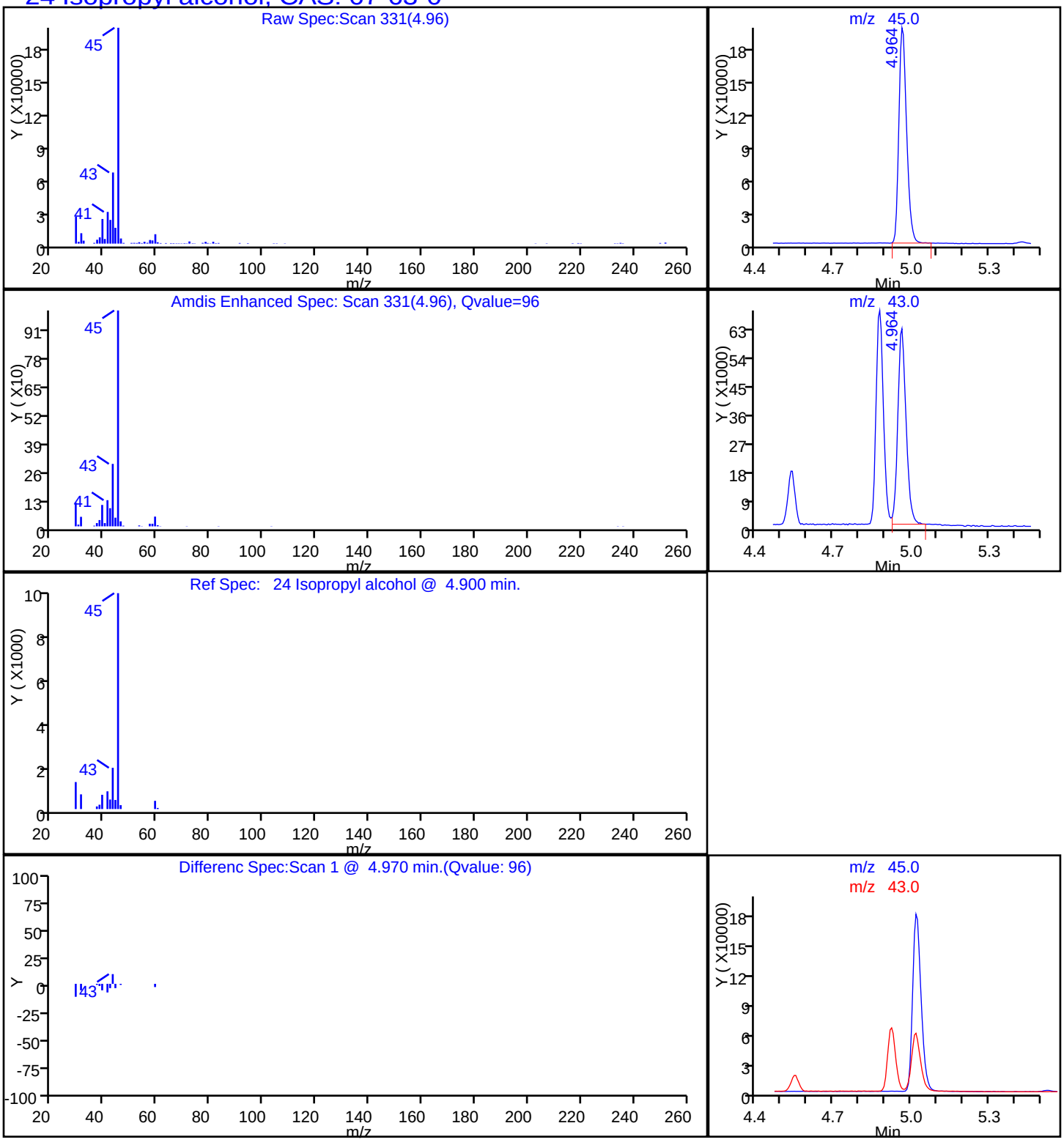
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME		
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11		
Client ID:	PCV-IA3FD-B17				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

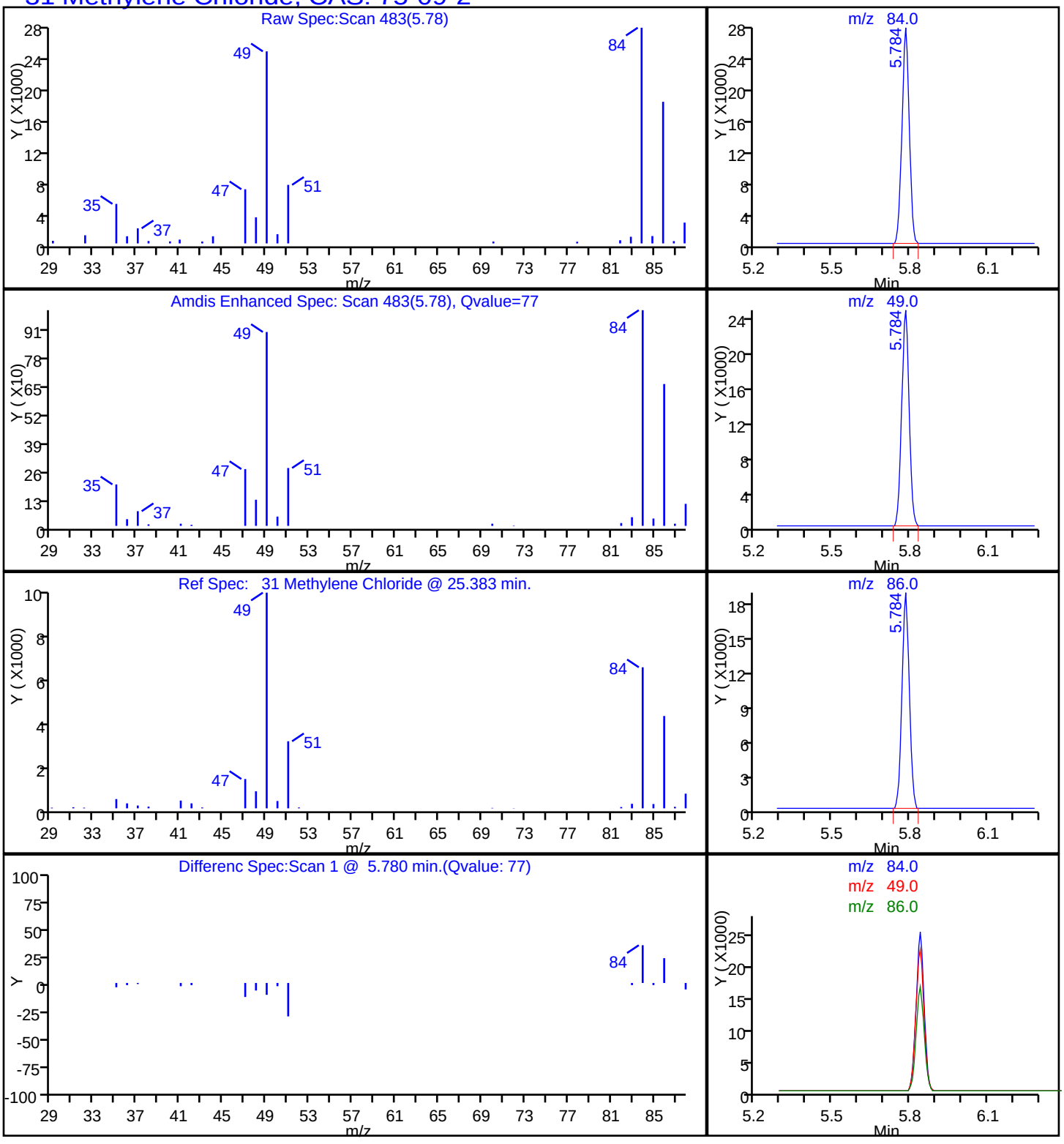
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date: 20-Mar-2014 22:30:30 Instrument ID: ME

Lims ID: 140-1060-A-11 Lab Sample ID: 140-1060-11

Client ID: PCV-IA3FD-B17

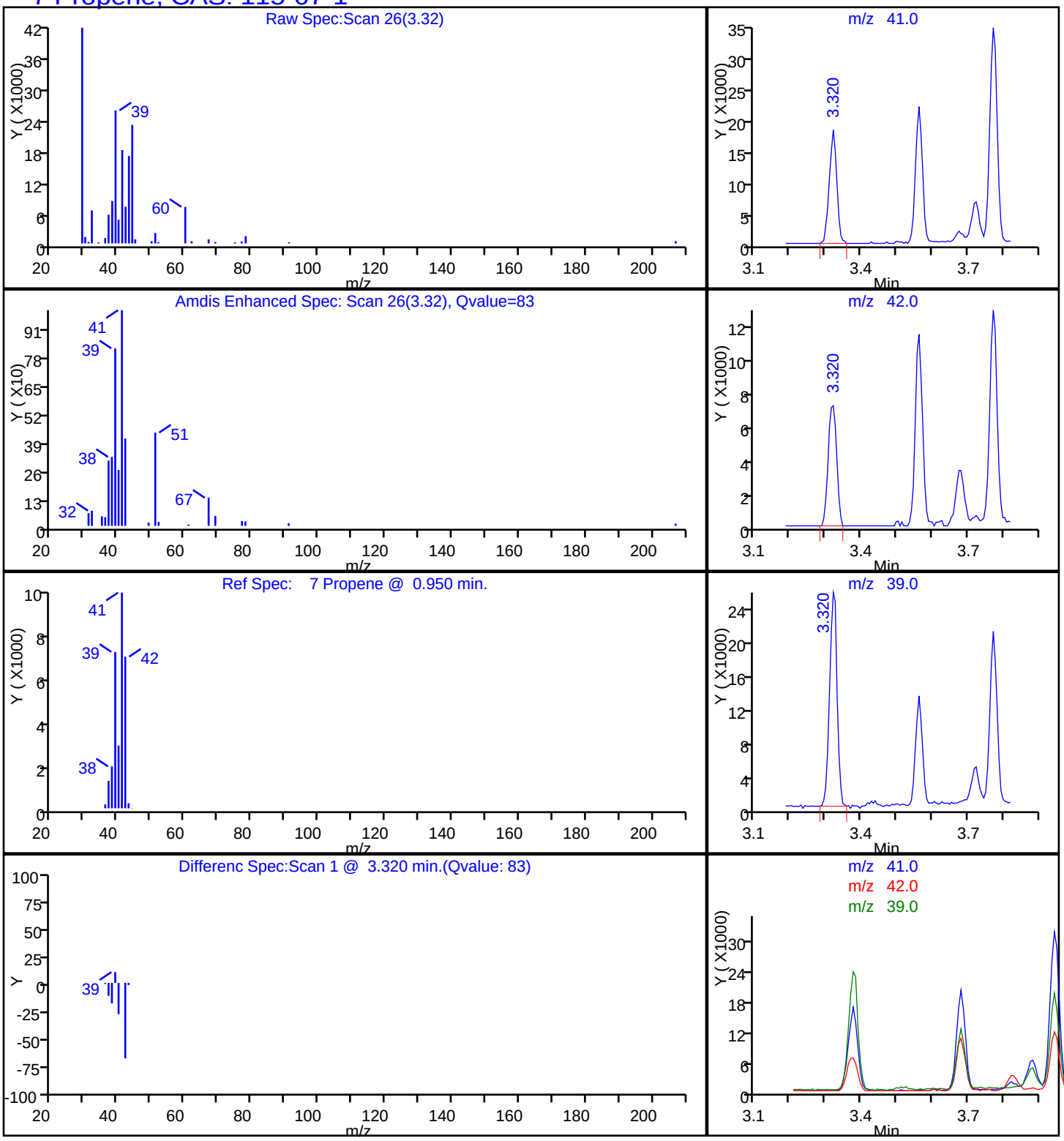
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



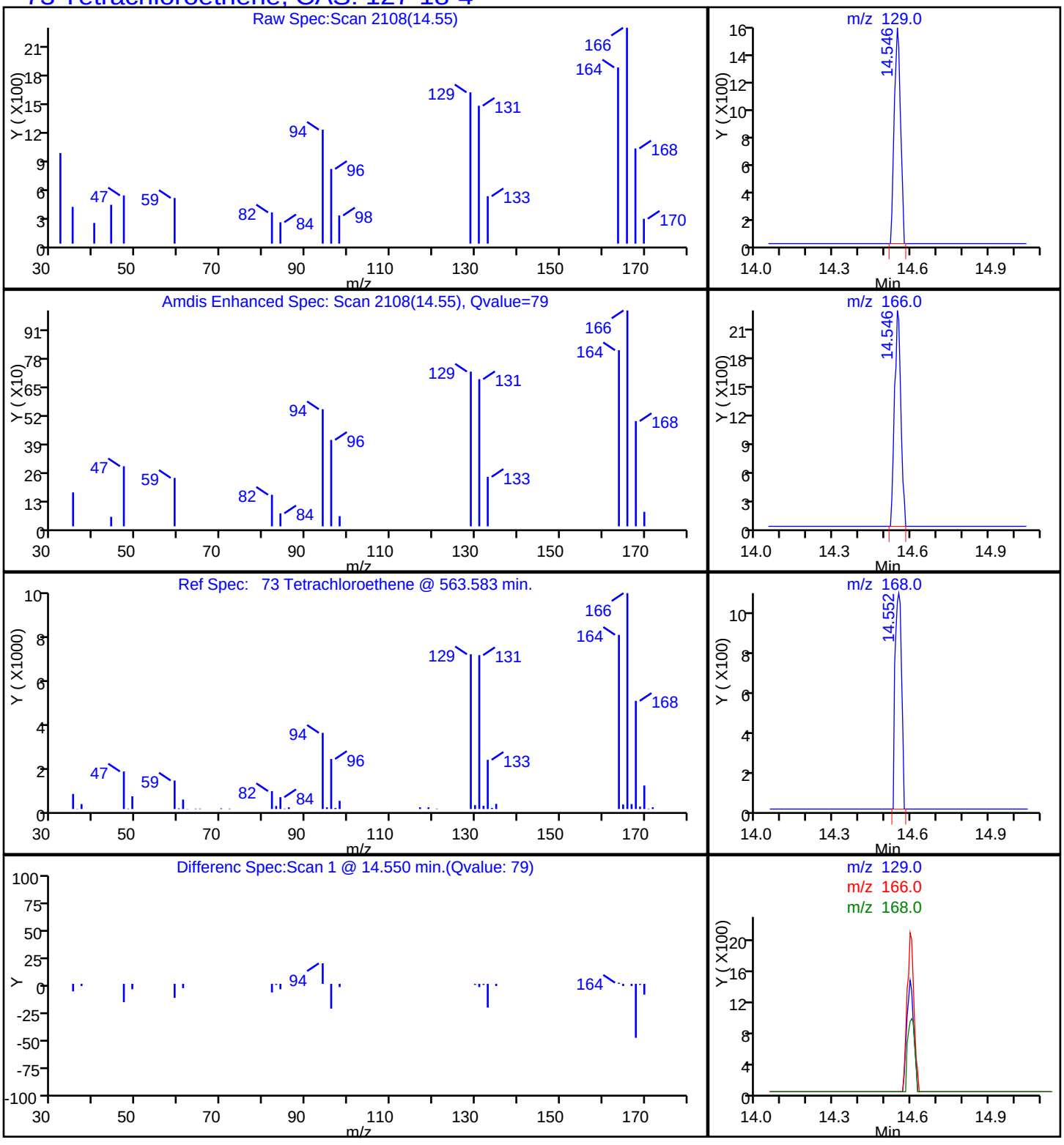
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



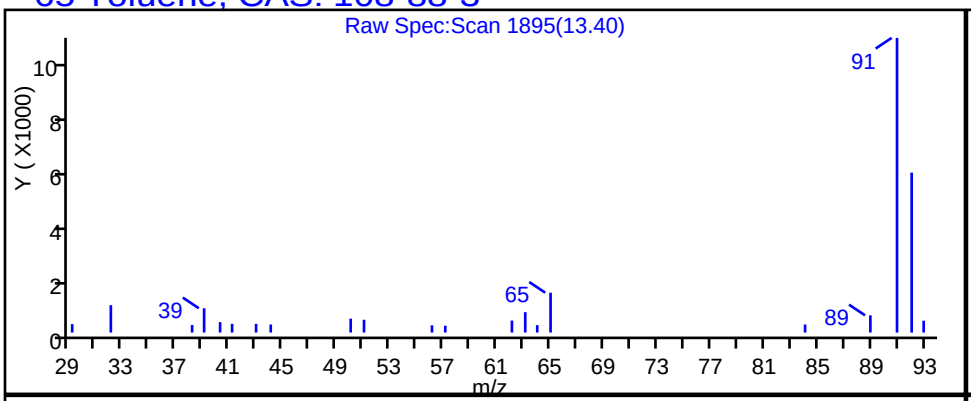
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

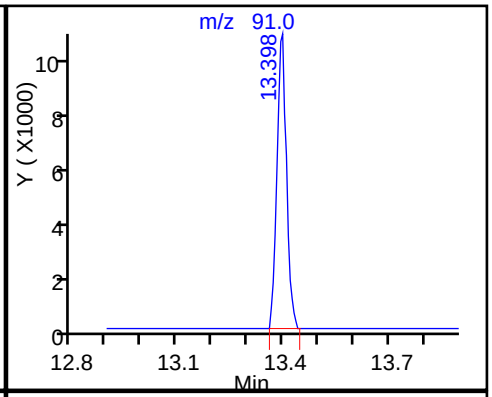
TestAmerica Knoxville

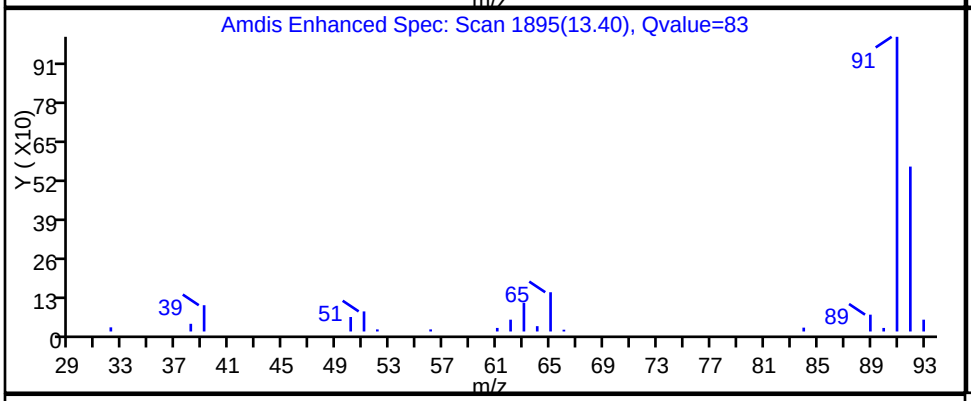
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

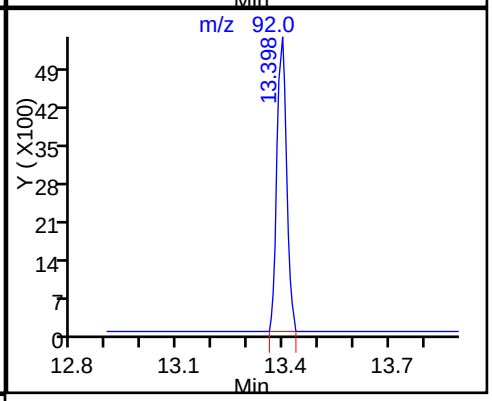
Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11
Client ID:	PCV-IA3FD-B17		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

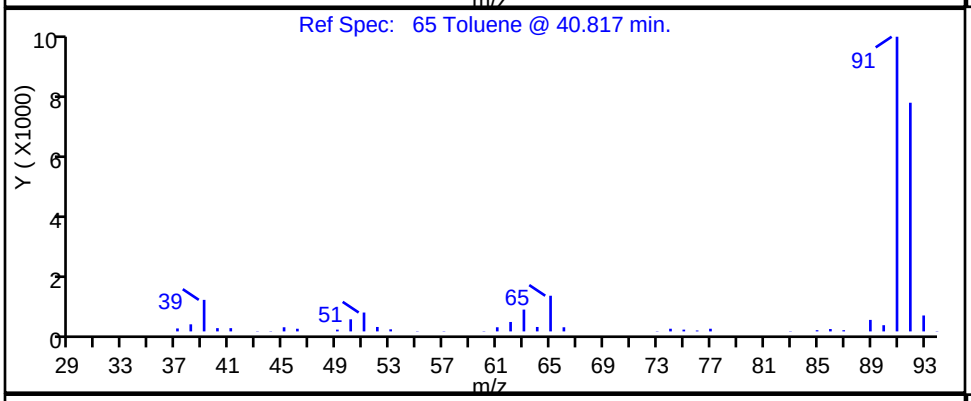
65 Toluene, CAS: 108-88-3

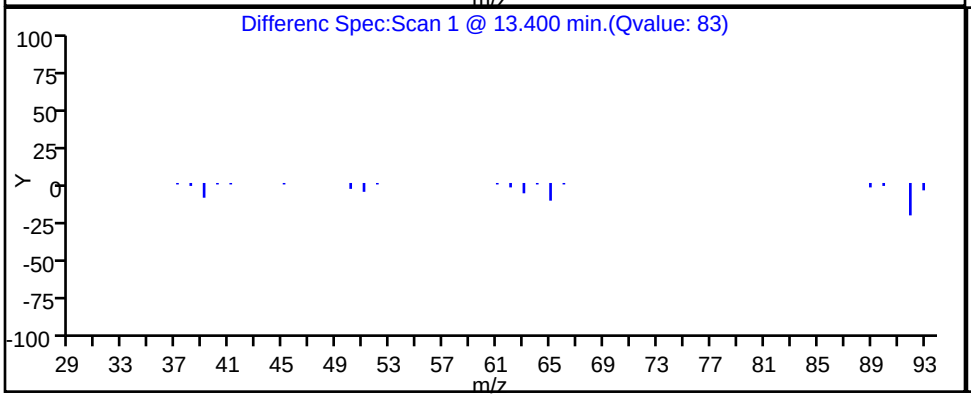


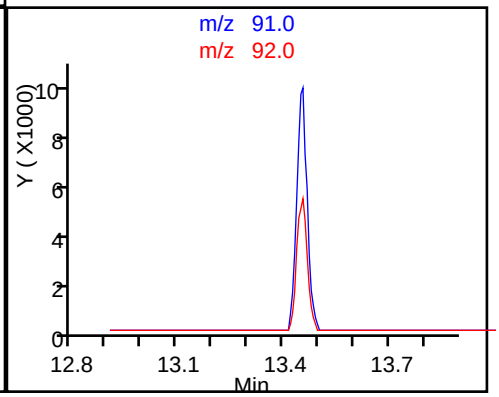












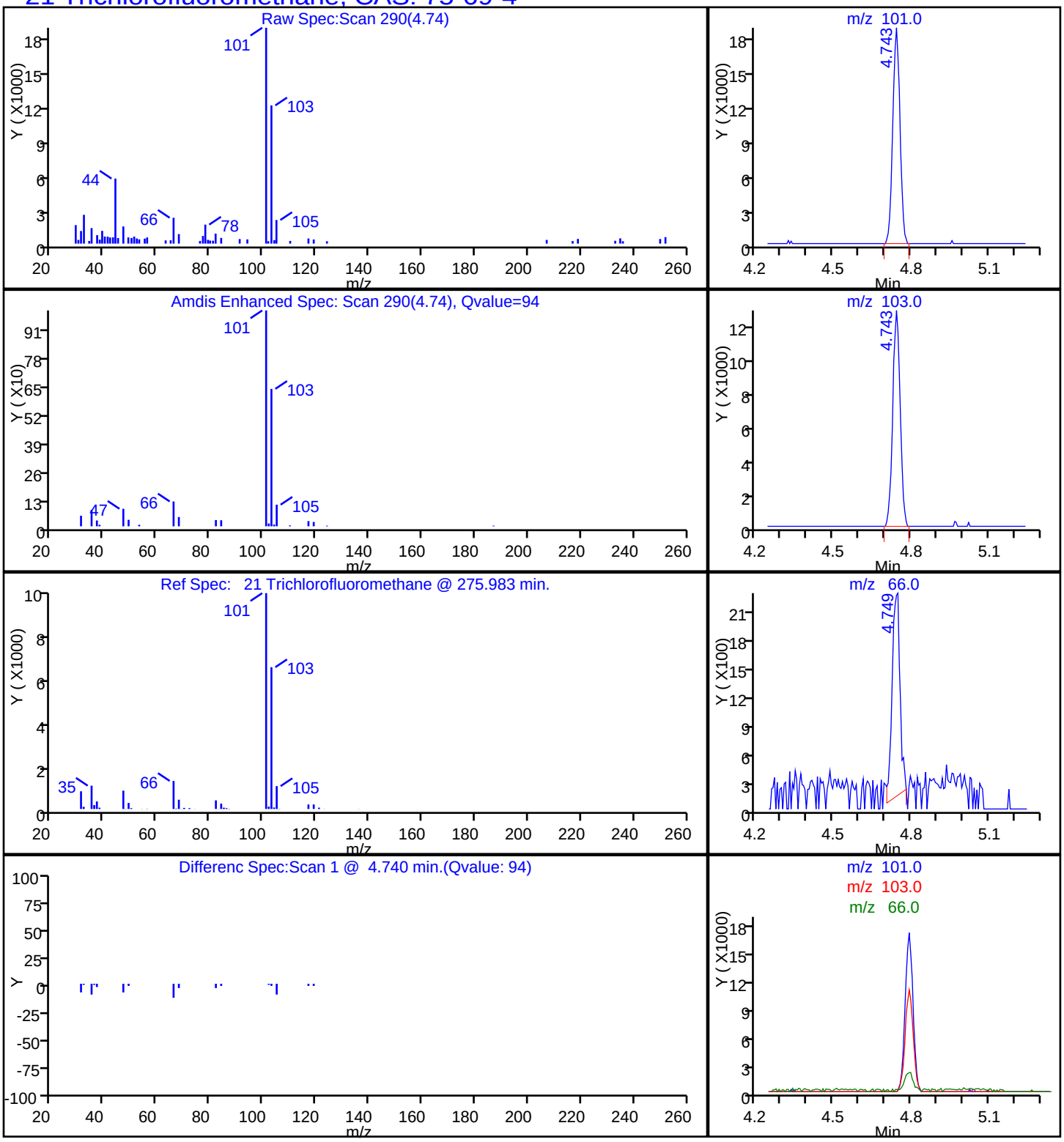
Report Date: 21-Mar-2014 09:36:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P109.D

Injection Date:	20-Mar-2014 22:30:30	Instrument ID:	ME		
Lims ID:	140-1060-A-11	Lab Sample ID:	140-1060-11		
Client ID:	PCV-IA3FD-B17				
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.083	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.10	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.051	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.43	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.97		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.059	J	0.50	0.045
67-64-1	Acetone	58.08	5.0		5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.047	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.088	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.085	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.51		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.060	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	3.1		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.061	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.28		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.30		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.63	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.22	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.24	J	2.0	0.18
67-64-1	Acetone	58.08	12		12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.18	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.56	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.41	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	23		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.44	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	11		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.41	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.7		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B17 Lab Sample ID: 140-1060-12

Matrix: Air Lab File ID: EC20P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:55

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D
Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12
Client ID: PCV-IA3-B17
Sample Type: Client
Inject. Date: 20-Mar-2014 23:16:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-12
Misc. Info.: E032014,TO155,,140-0000533-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:37:38 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:37:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	255195	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1112080	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	964698	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	786003	3.72	
7 Propene	41	3.319	3.314	0.005	78	30384	0.4733	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	57524	0.2038	
9 Chloromethane	52	3.530	3.530	0.0	96	4575	0.2030	
13 Butadiene	54	3.778	3.772	0.006	29	2422	0.0403	
15 Bromomethane	94	4.080	4.080	0.0	47	1769	0.0188	
17 Ethanol	31	4.312	4.317	-0.005	97	124294	4.87	
19 2-Methylbutane	43	4.538	4.538	0.0	85	34515	0.3862	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	34005	0.1201	
23 Acetone	58	4.878	4.883	-0.005	92	76997	1.99	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	94	214374	2.15	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	77	5800	0.0331	
31 Methylene Chloride	84	5.784	5.789	-0.005	77	89258	1.22	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	90	7151	0.1712	
40 Hexane	56	7.585	7.585	0.0	54	3390	0.0499	
43 Chloroform	83	8.345	8.356	-0.011	18	7396	0.0338	
48 Benzene	78	9.984	9.995	-0.011	91	21225	0.0948	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	89	7600	0.0353	
53 Isooctane	57	10.783	10.788	-0.006	67	7084	0.0205	
54 n-Heptane	71	11.171	11.182	-0.011	42	2017	0.0238	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	59	3099	0.0235	
65 Toluene	91	13.398	13.398	0.0	87	28552	0.1105	
73 Tetrachloroethene	129	14.552	14.552	0.0	76	2669	0.0242	

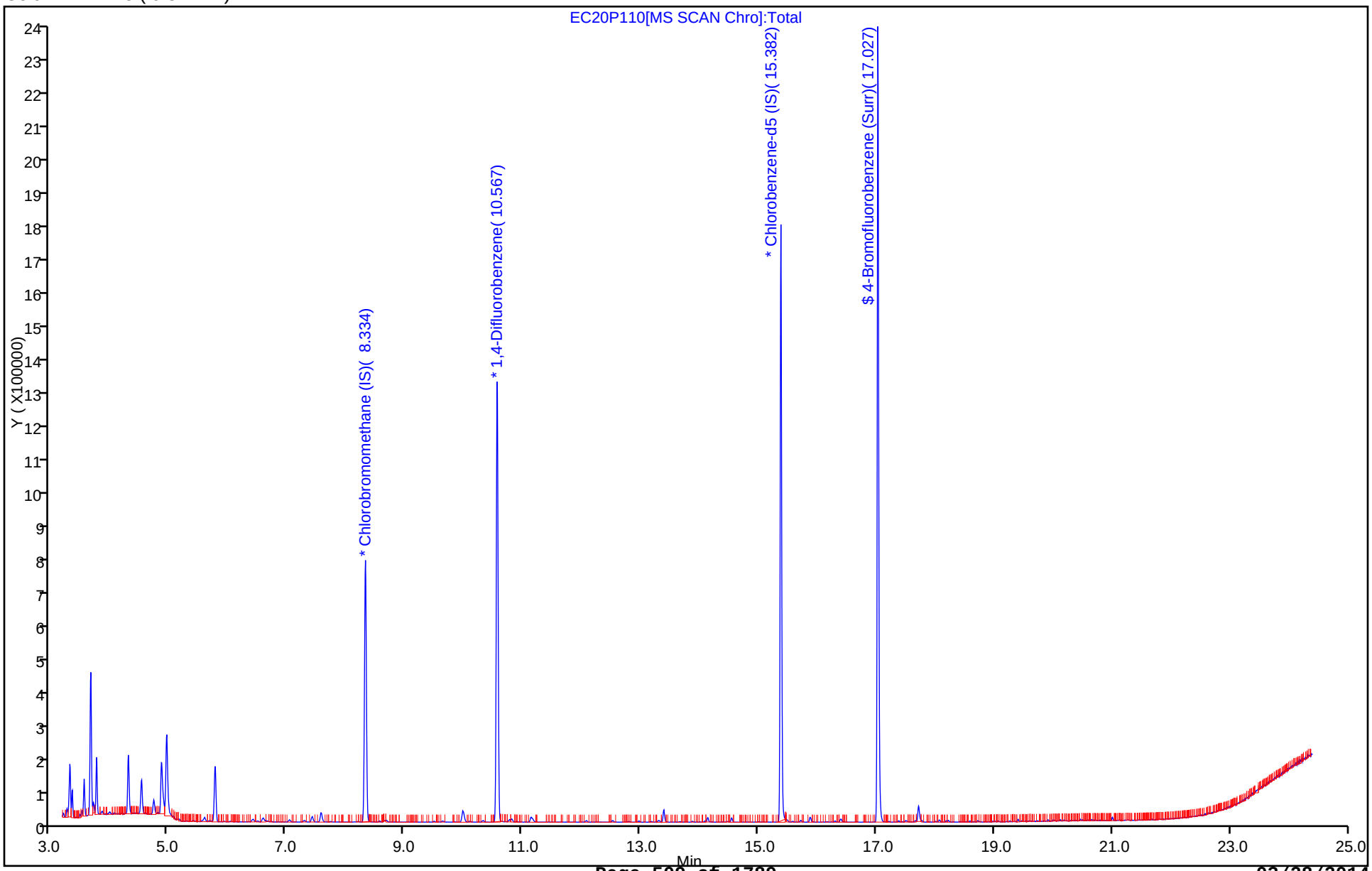
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12	Worklist Smp#:	14
Client ID:	PCV-IA3-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



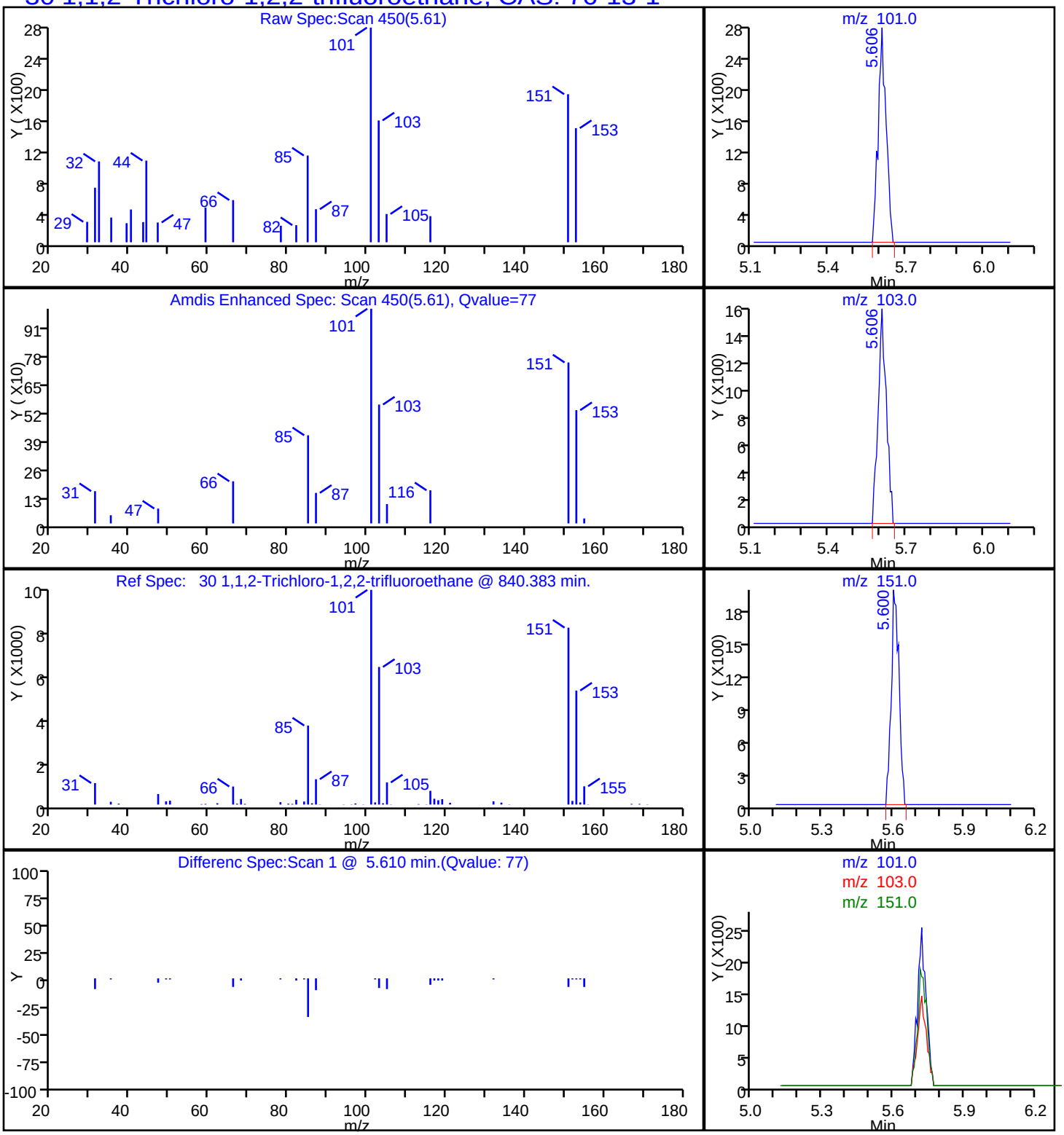
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



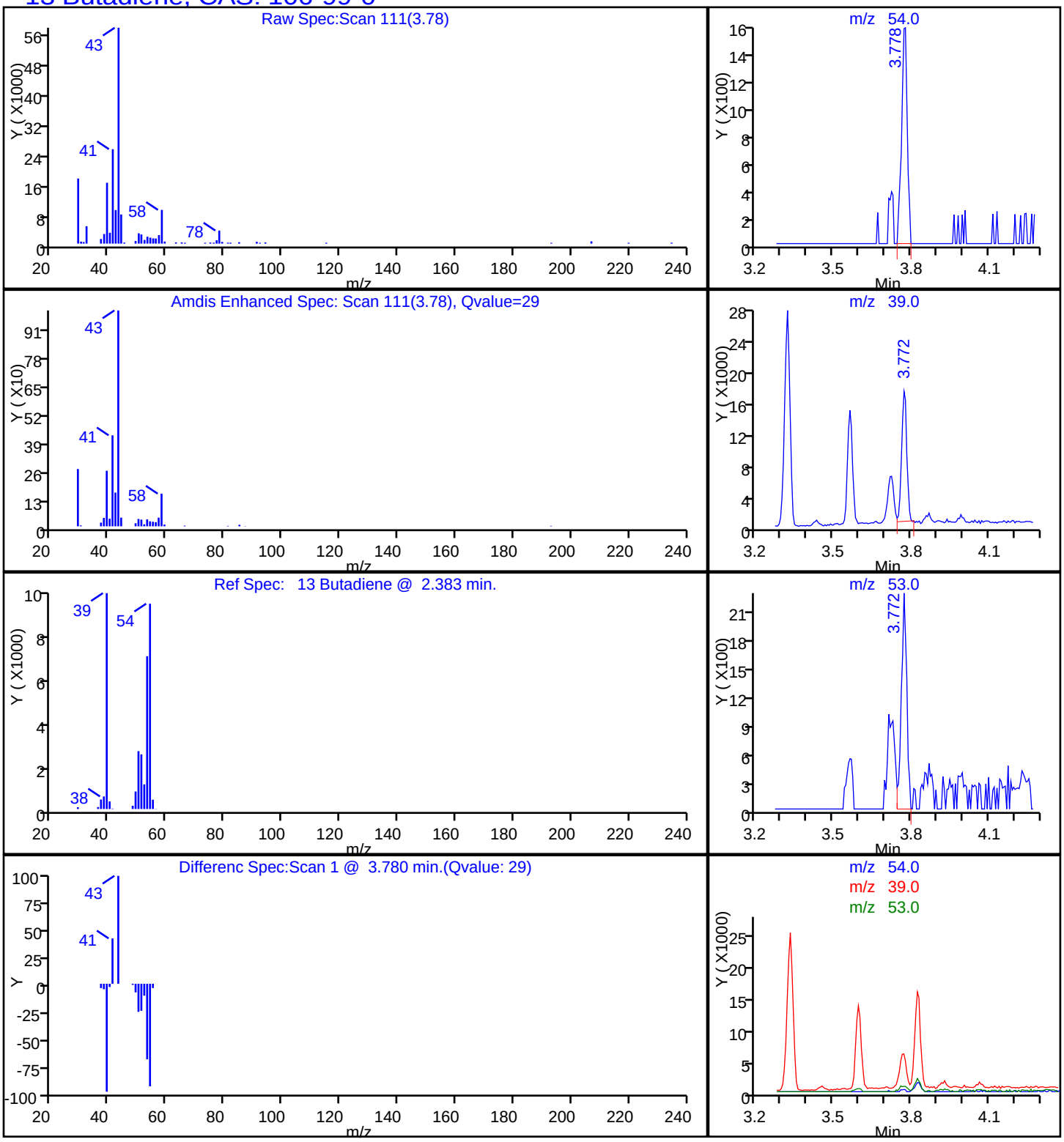
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

13 Butadiene, CAS: 106-99-0

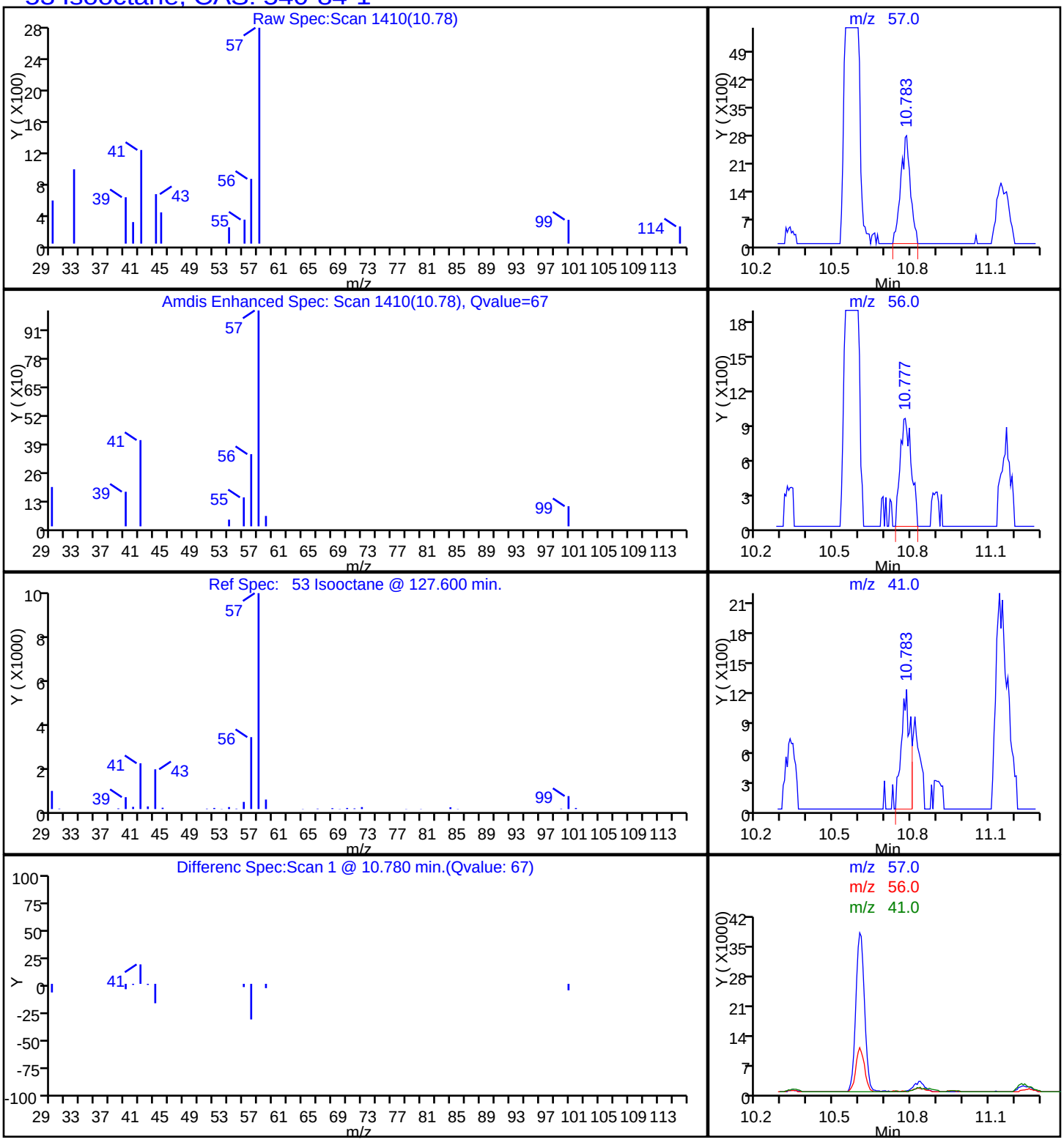


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D		
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



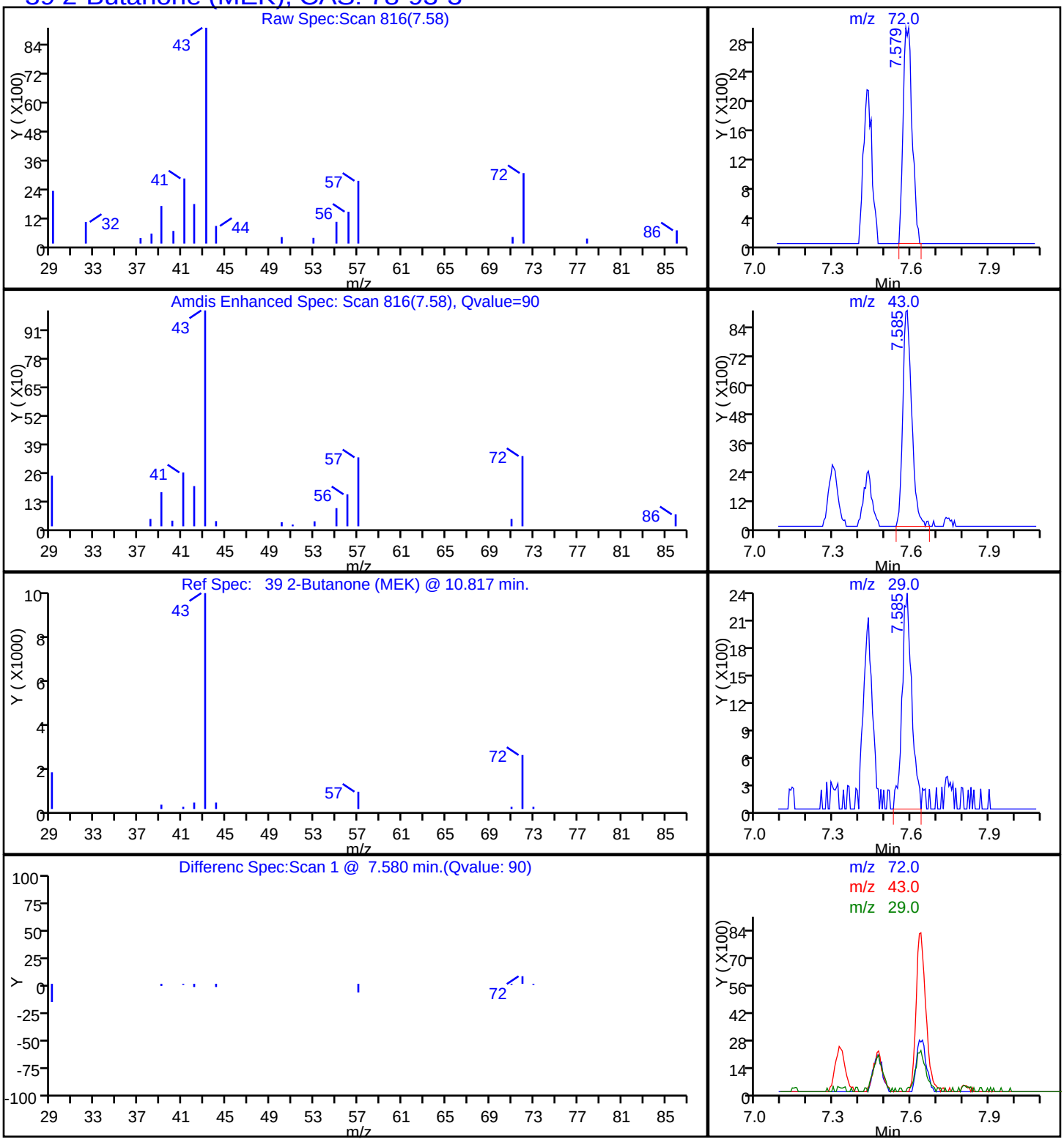
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

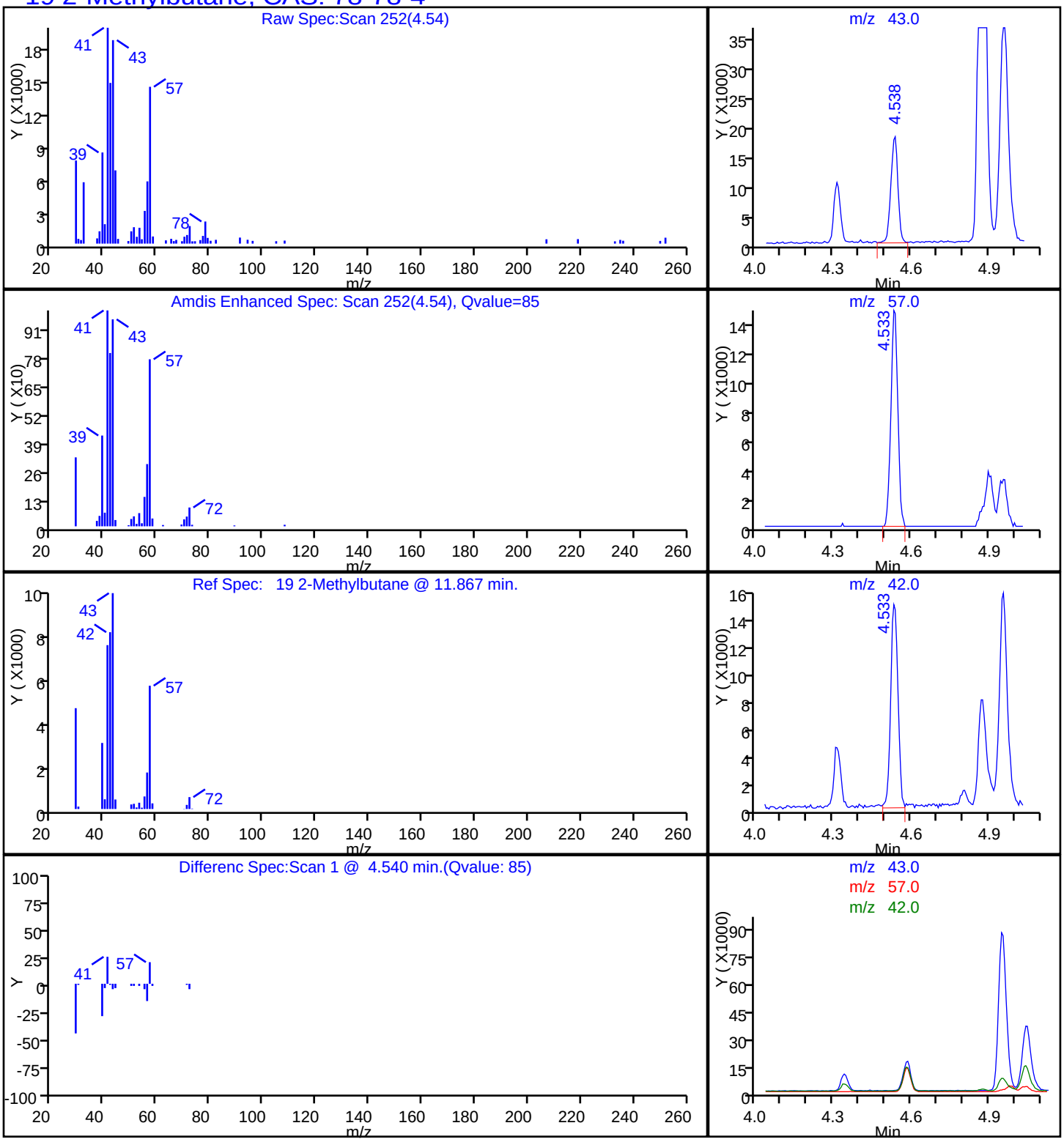
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

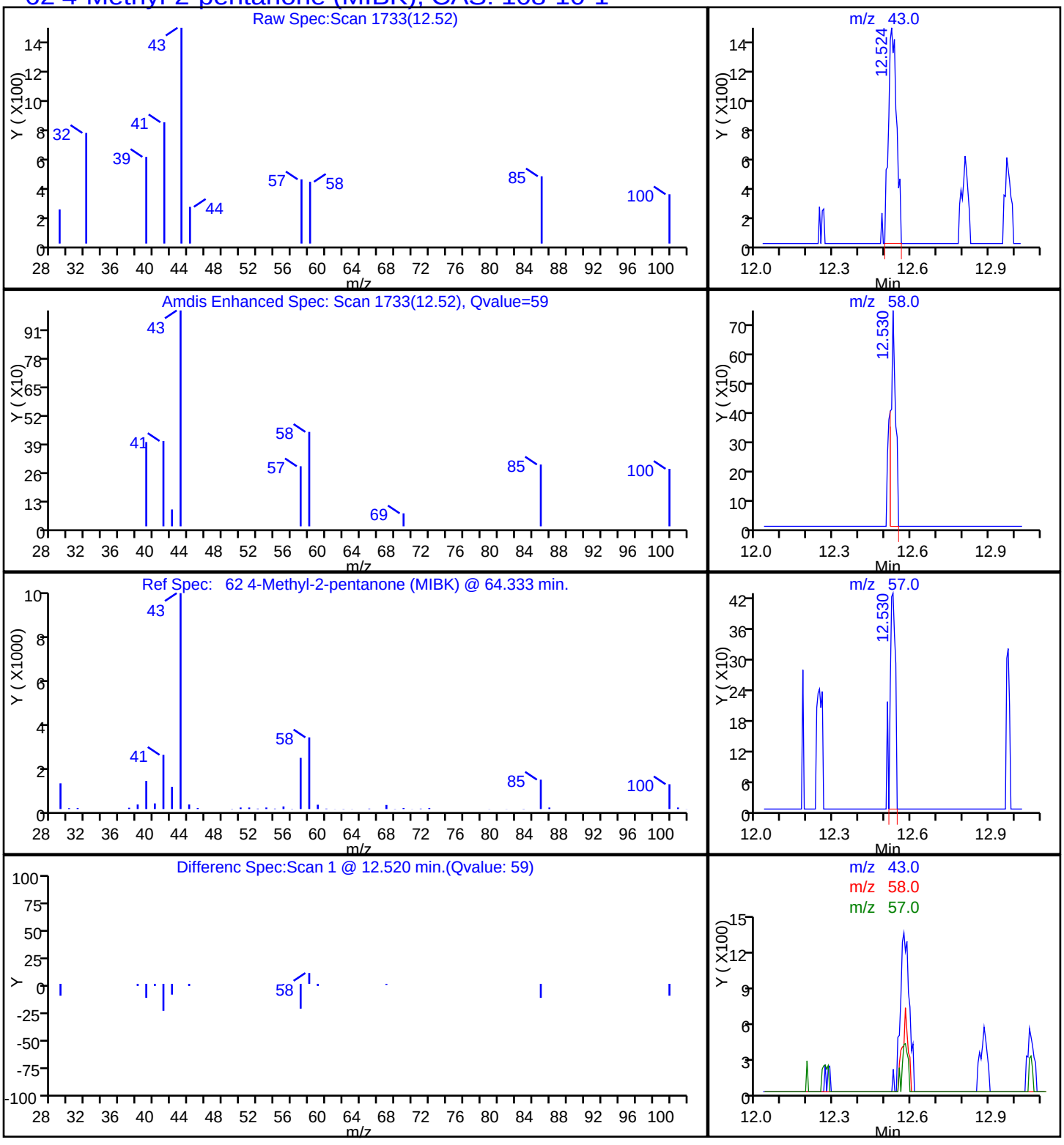
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



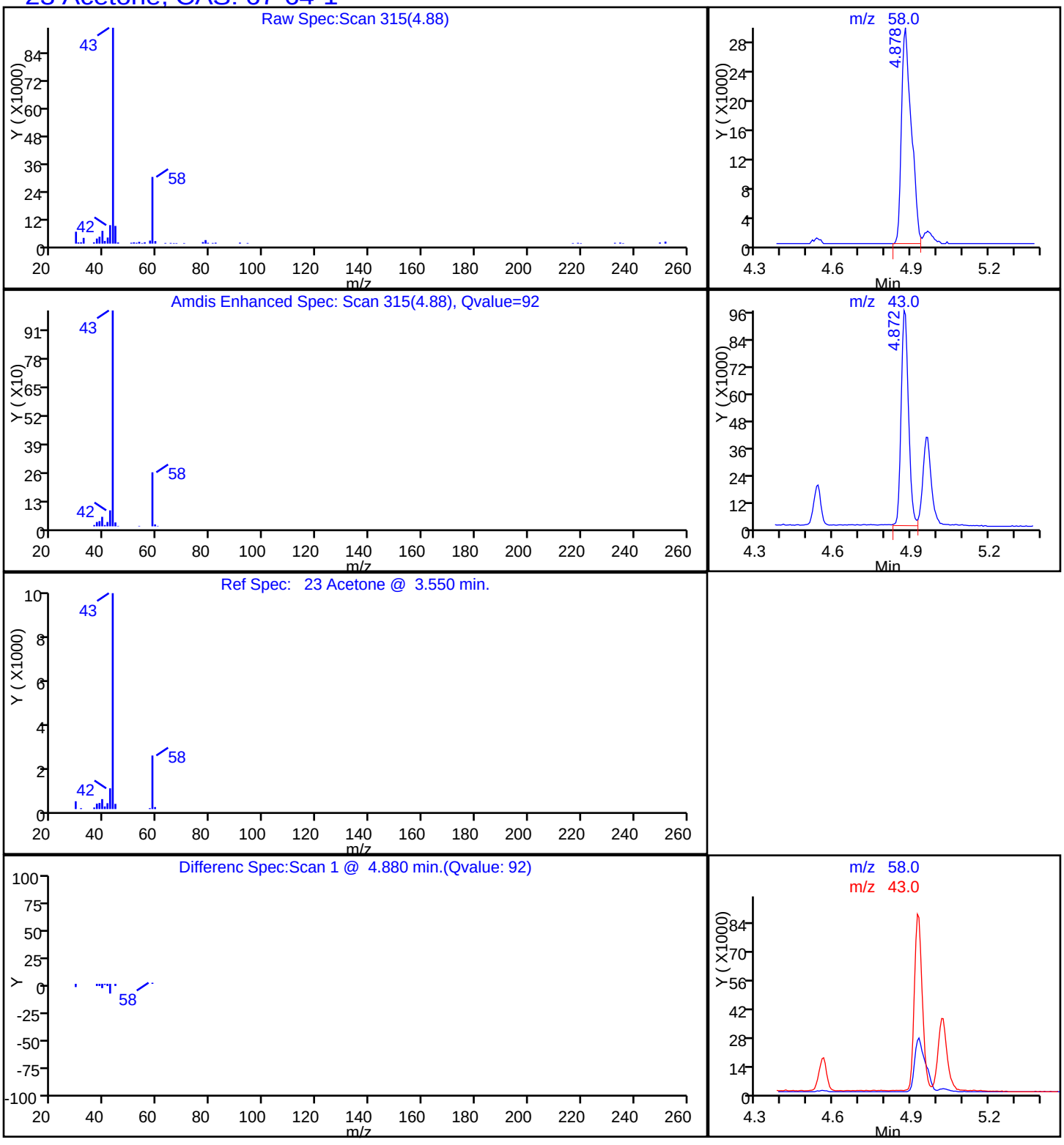
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



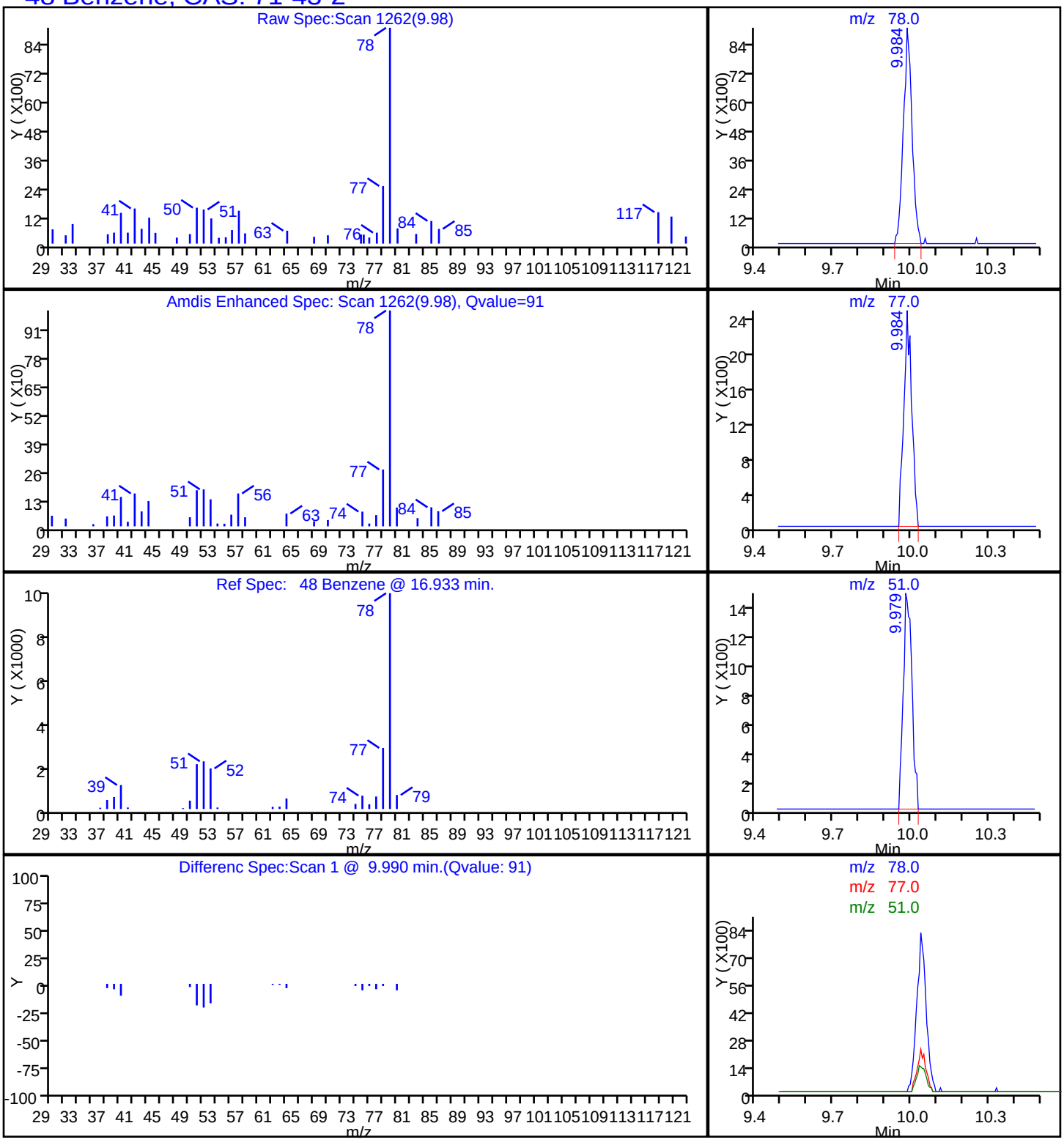
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2

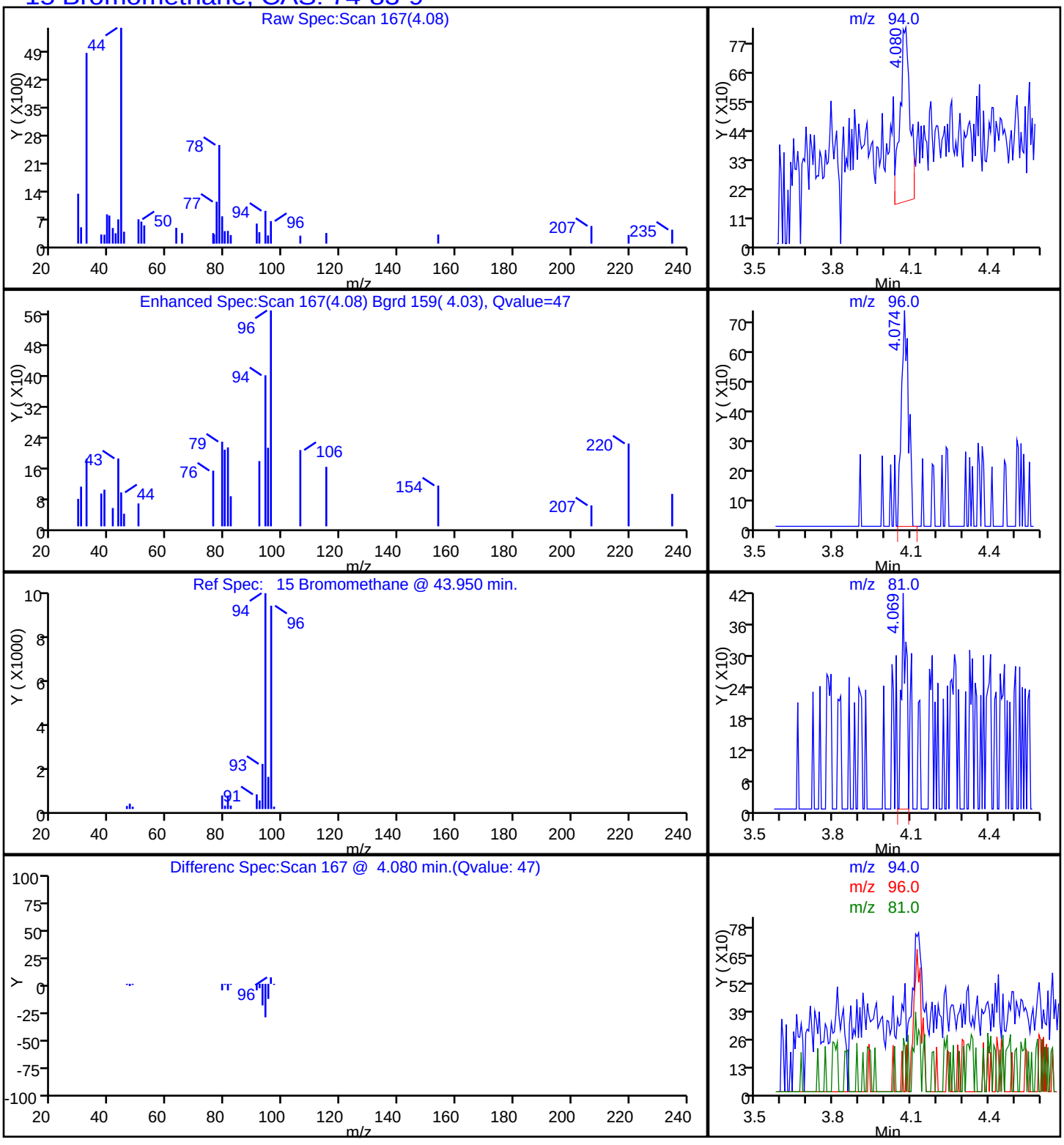


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D				
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

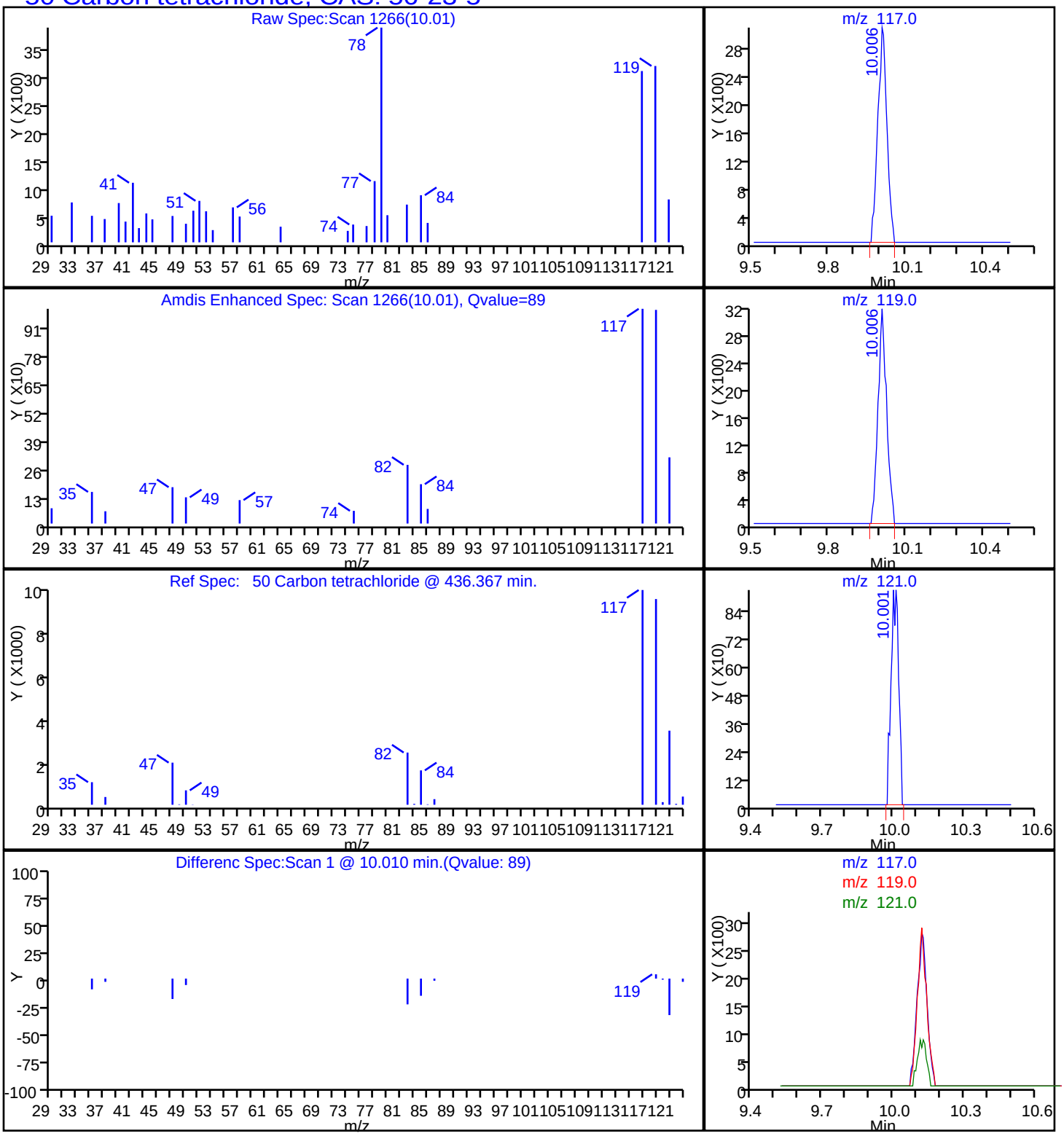
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

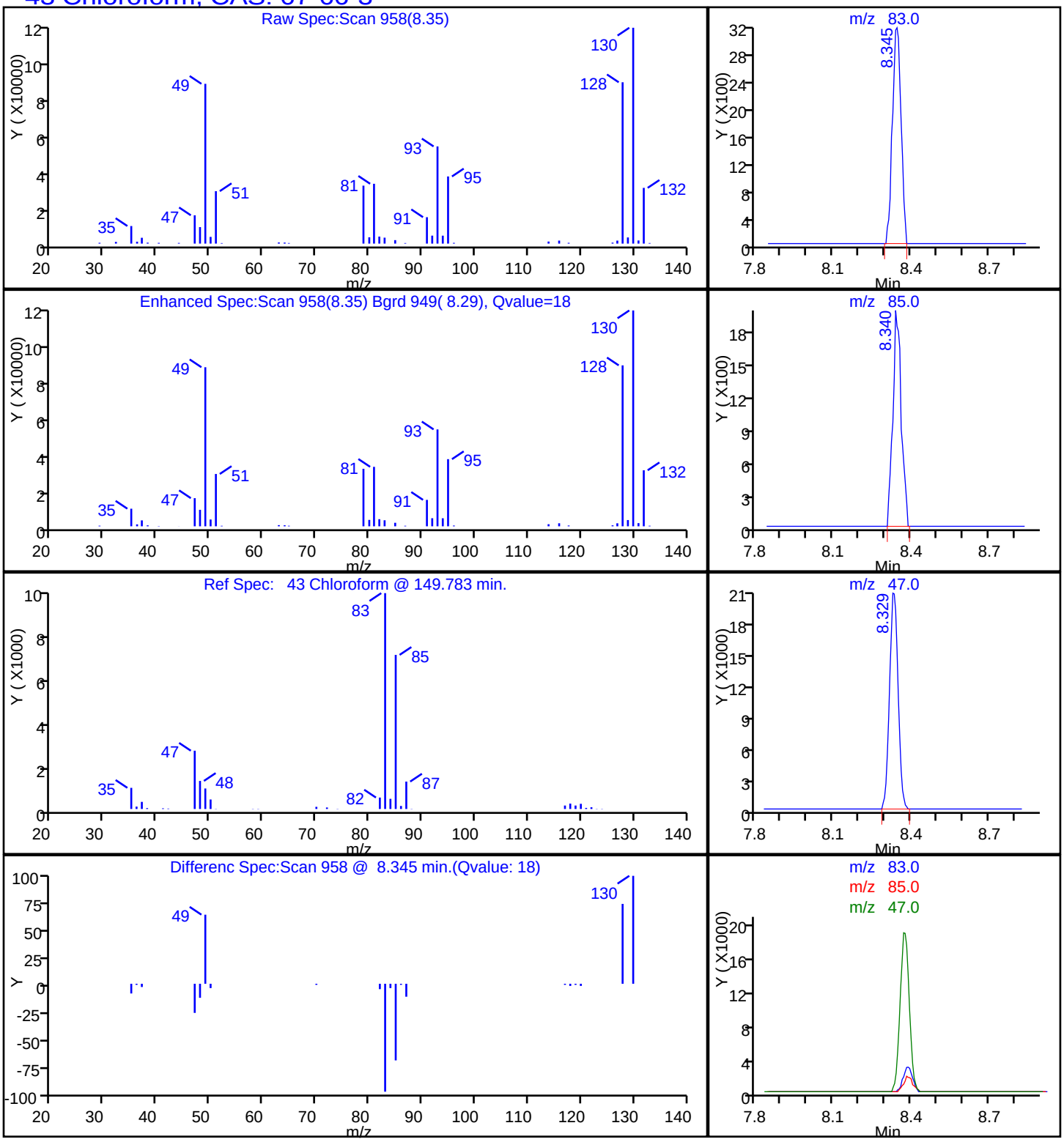
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3

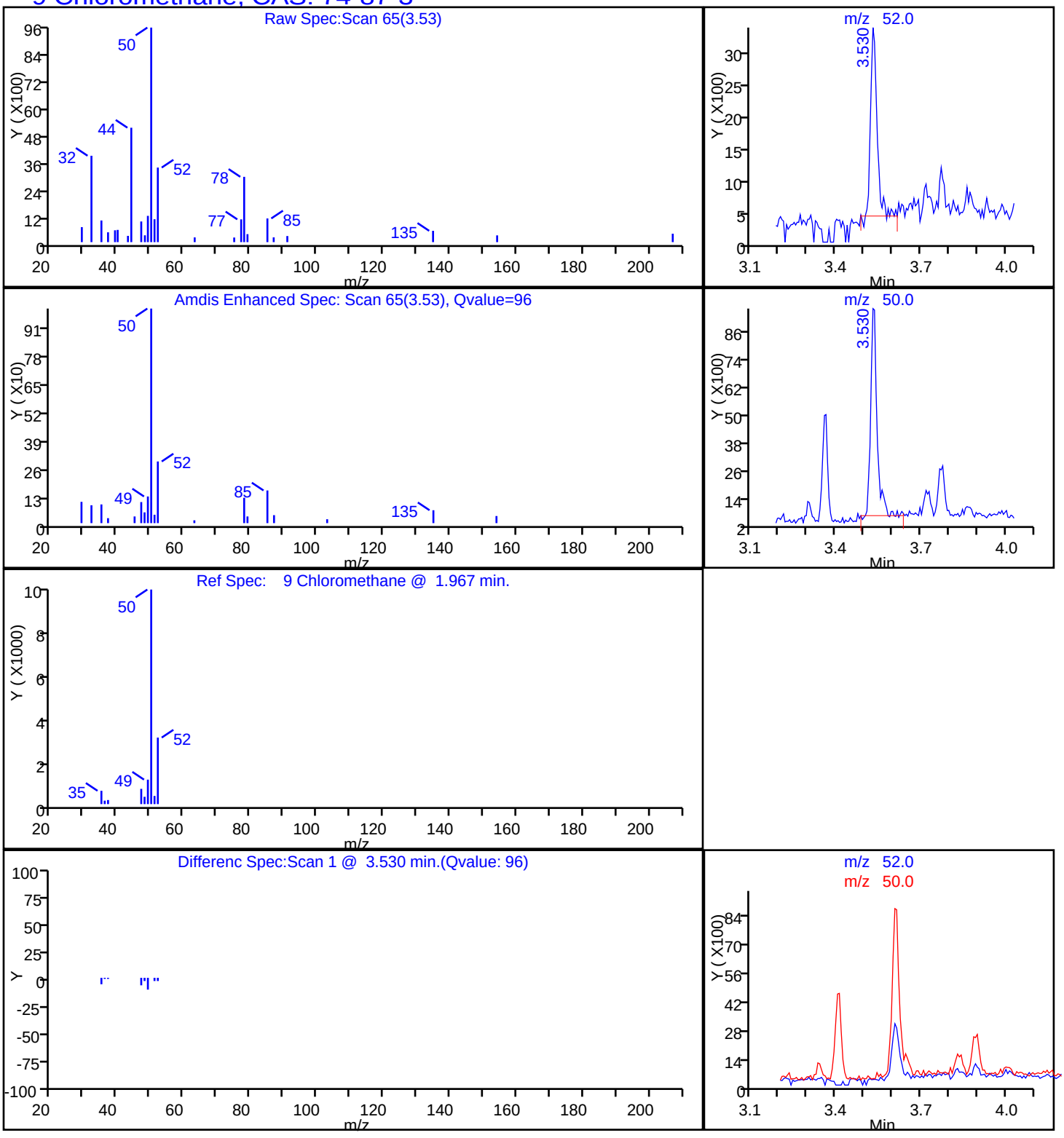


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D				
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

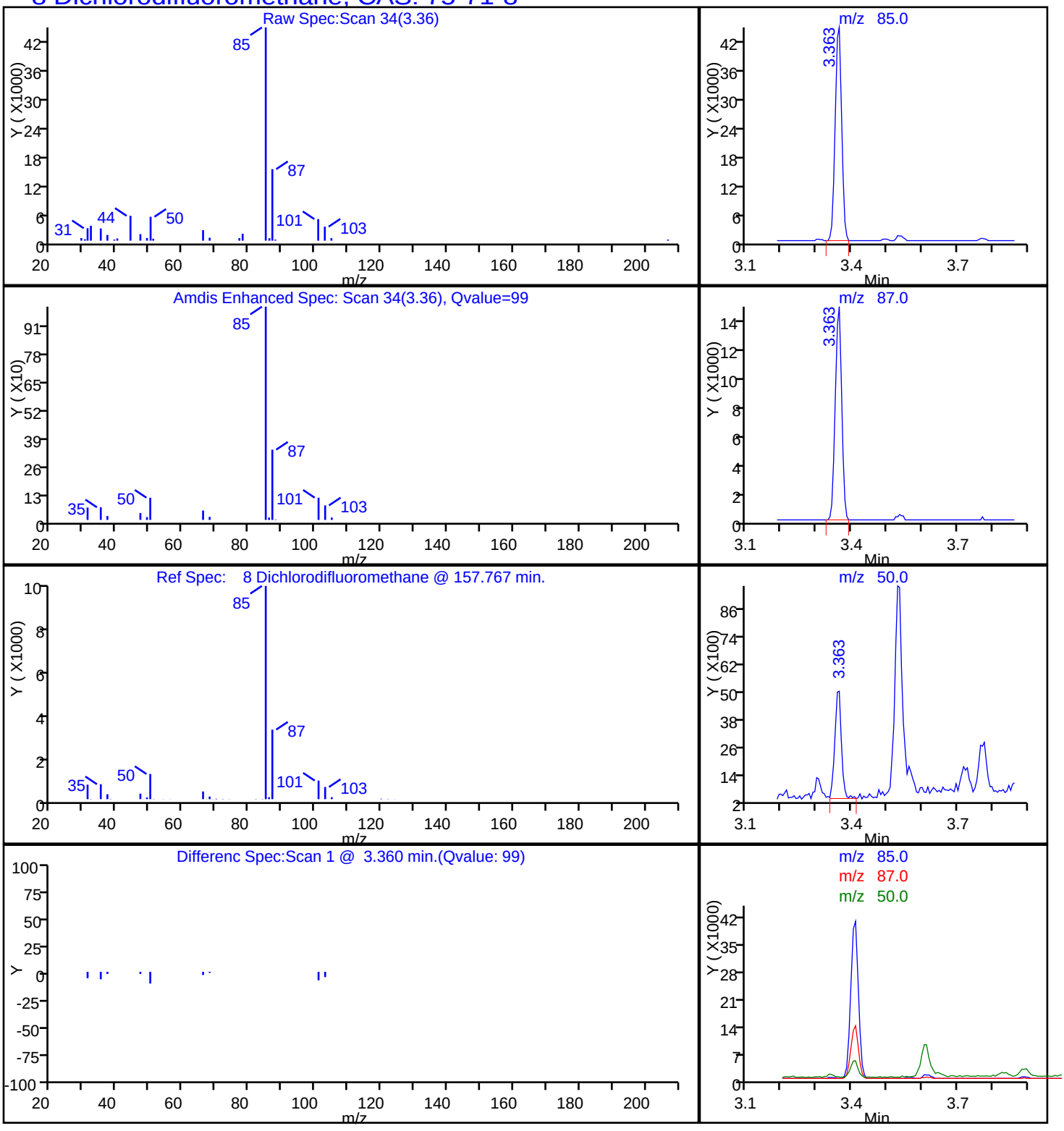
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

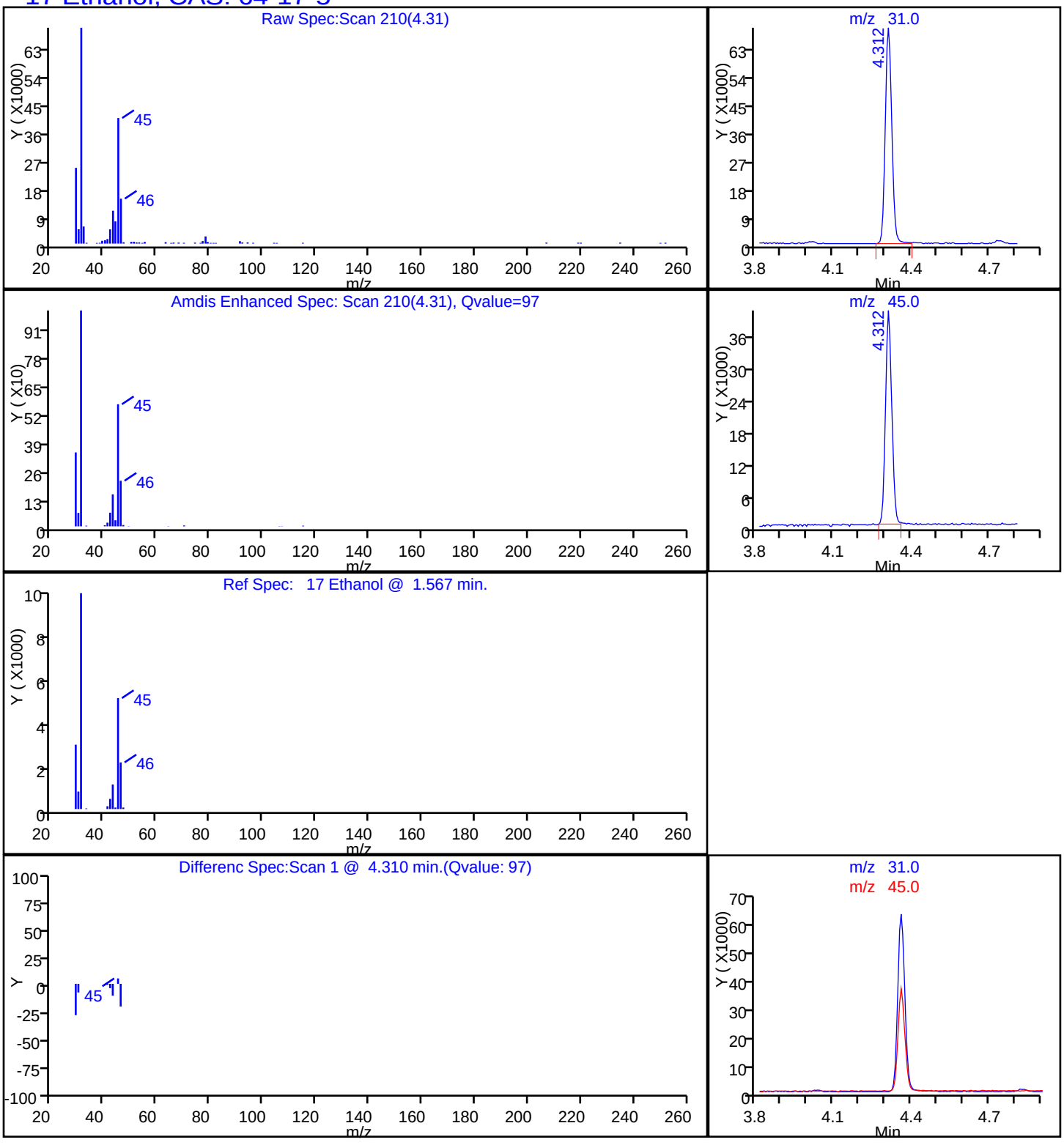


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D				
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

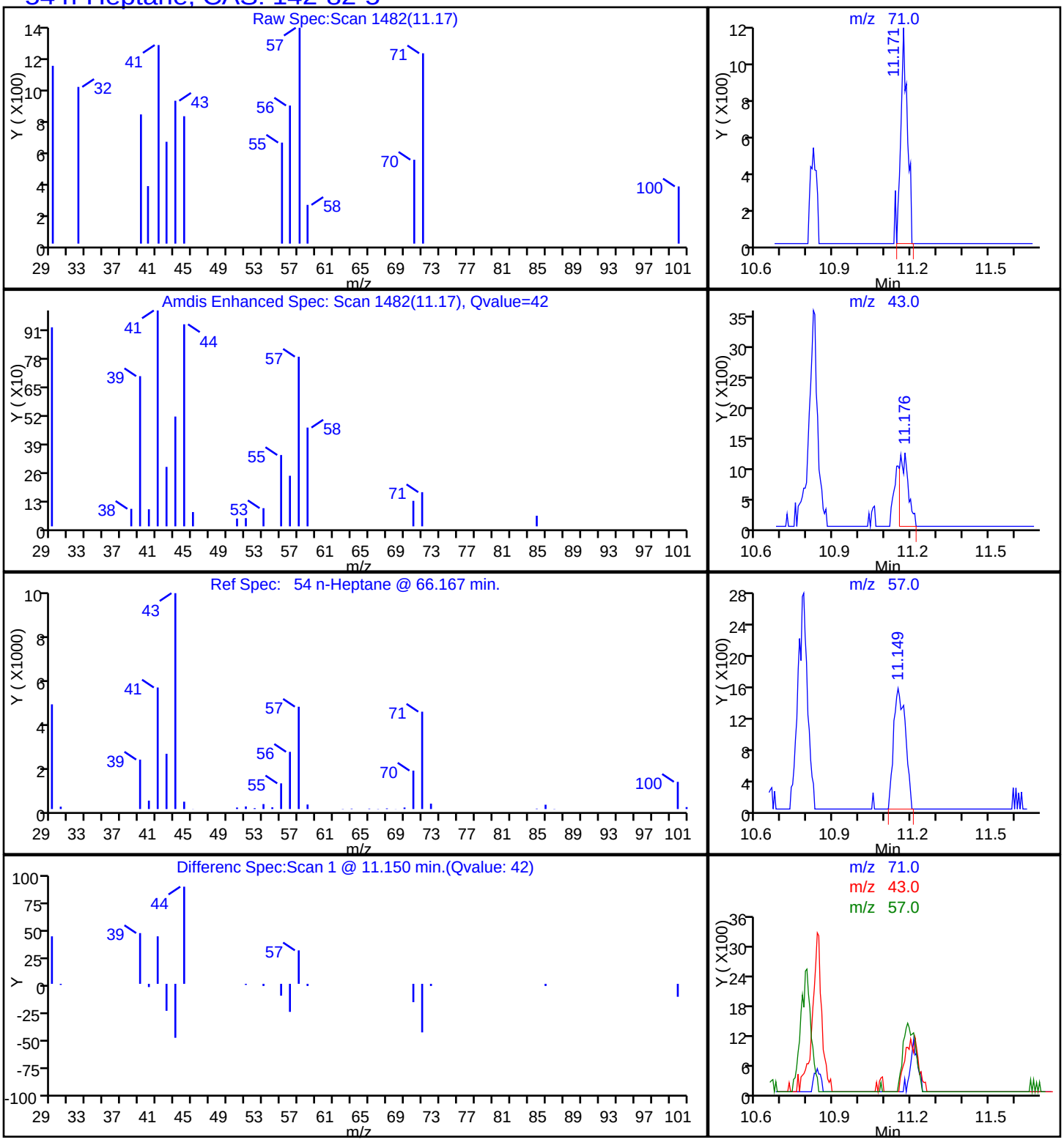


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D				
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

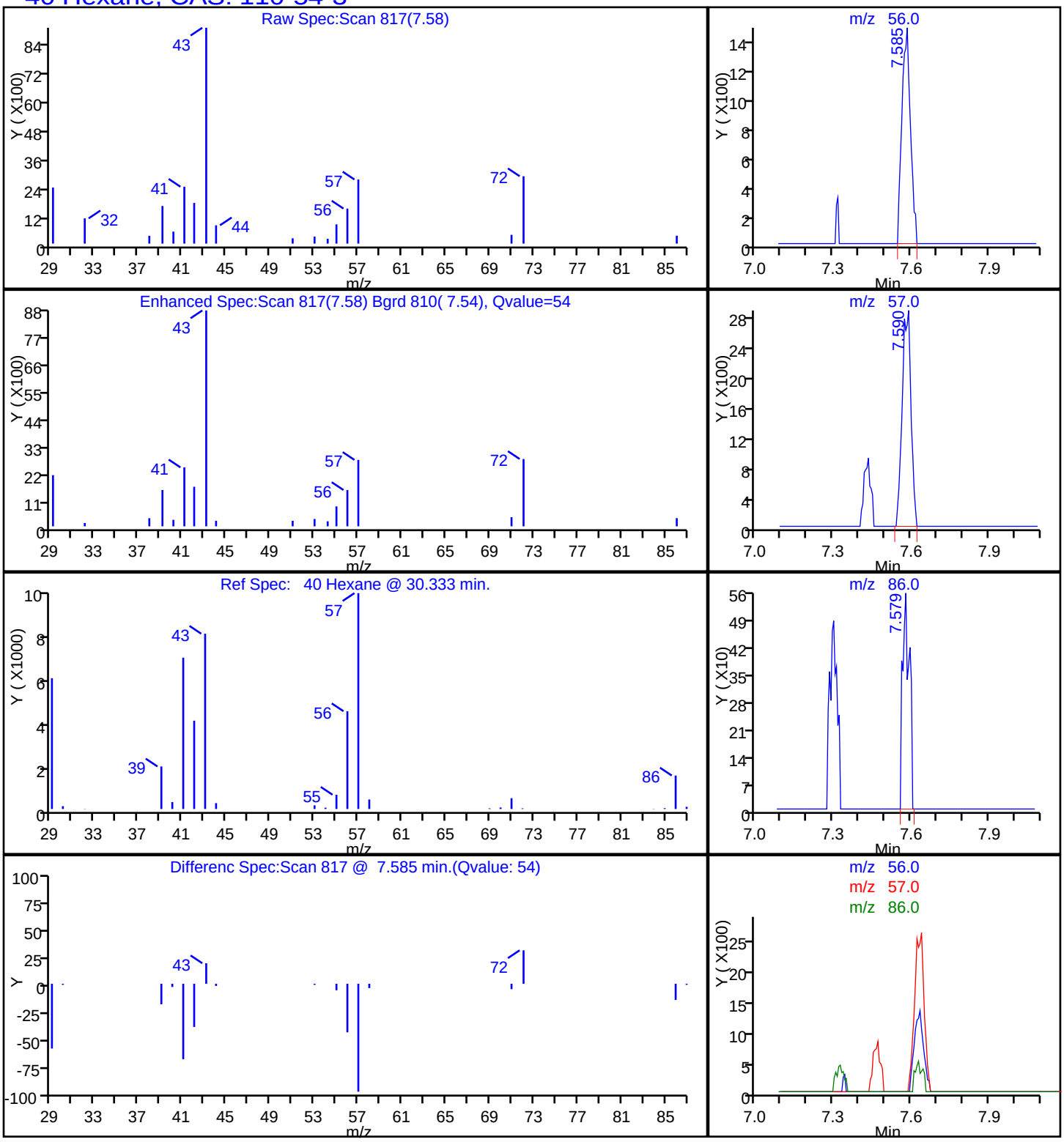
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3

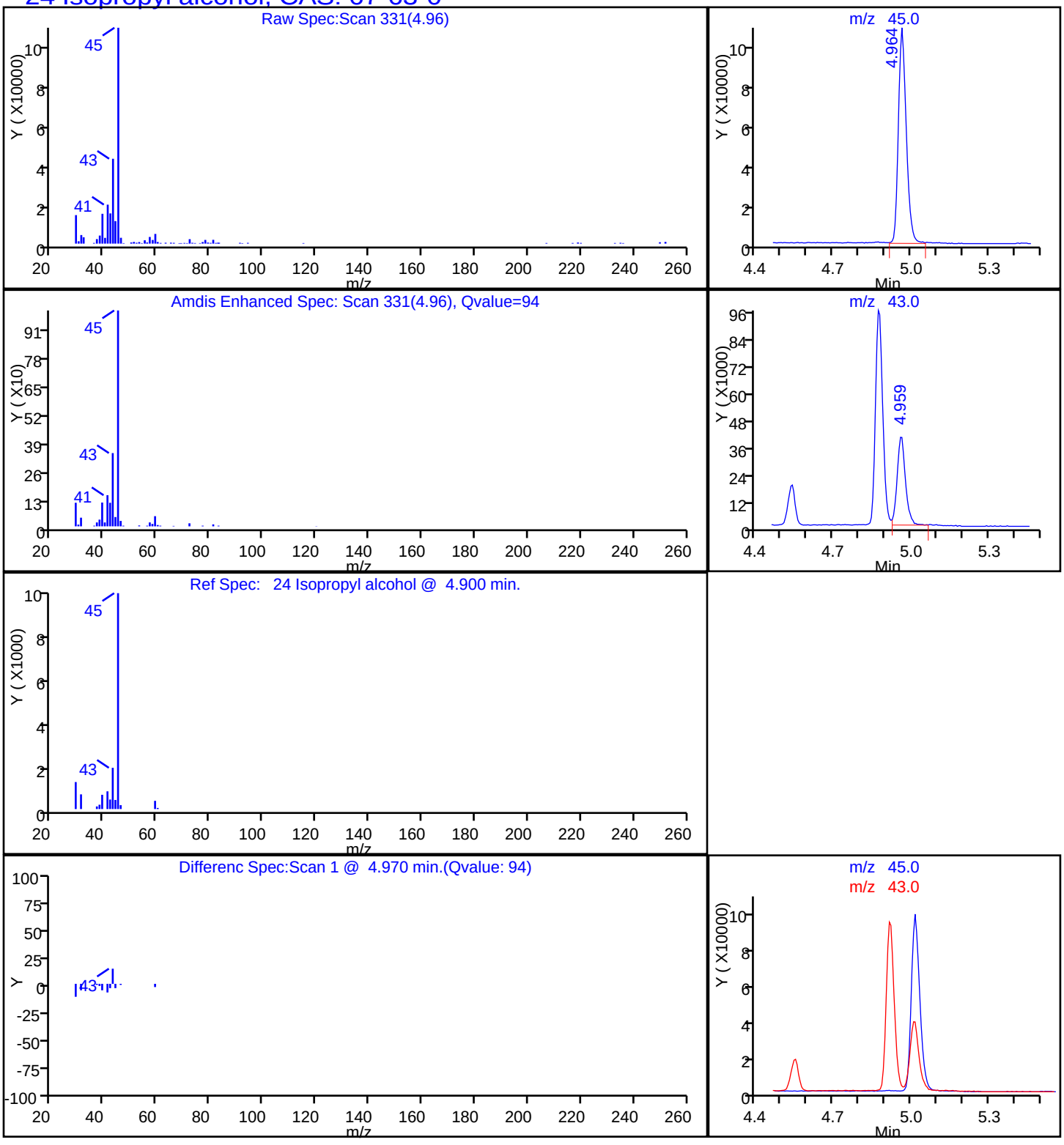


Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D		
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



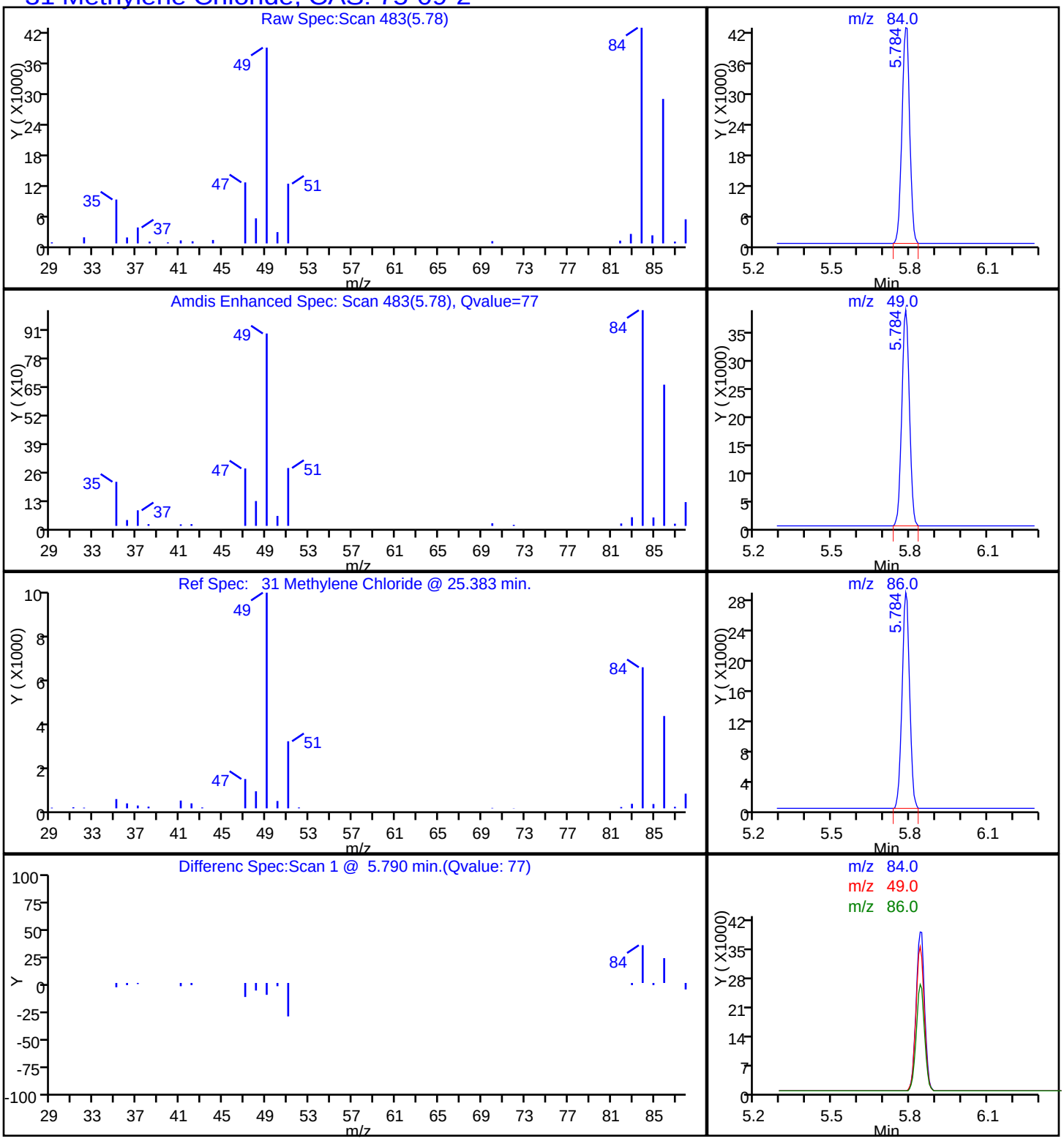
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

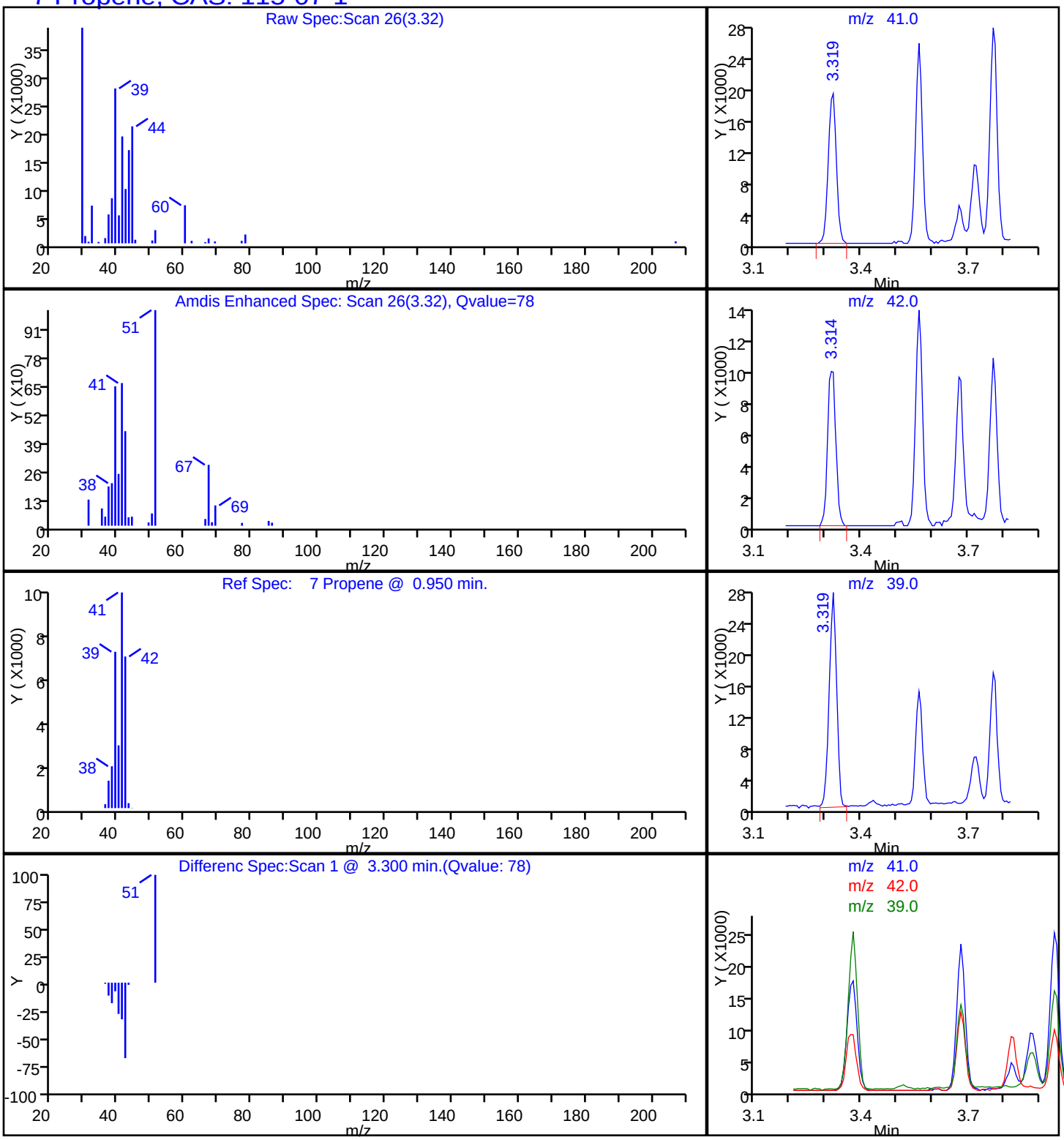
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date: 20-Mar-2014 23:16:30 Instrument ID: ME

Lims ID: 140-1060-A-12 Lab Sample ID: 140-1060-12

Client ID: PCV-IA3-B17

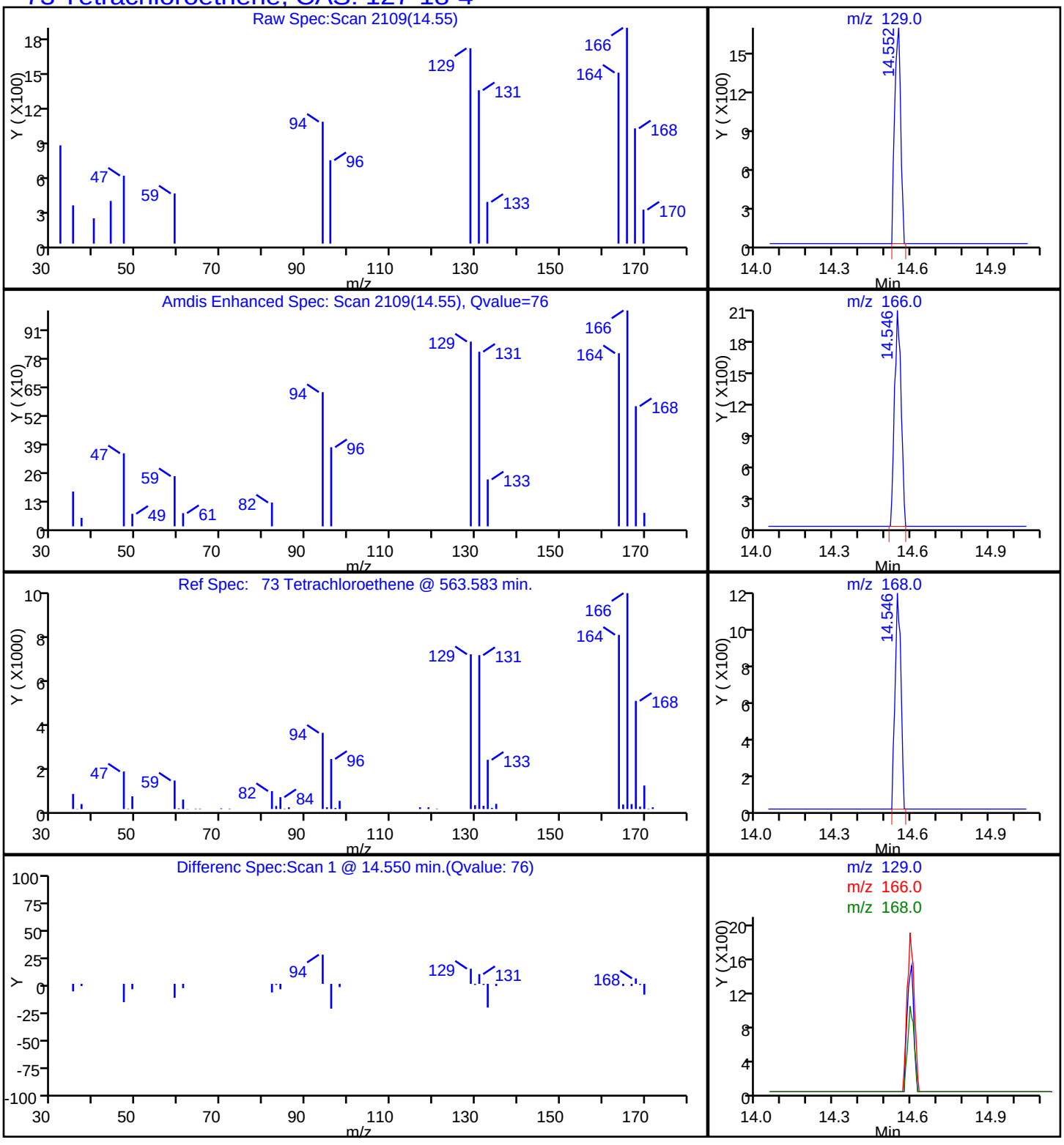
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

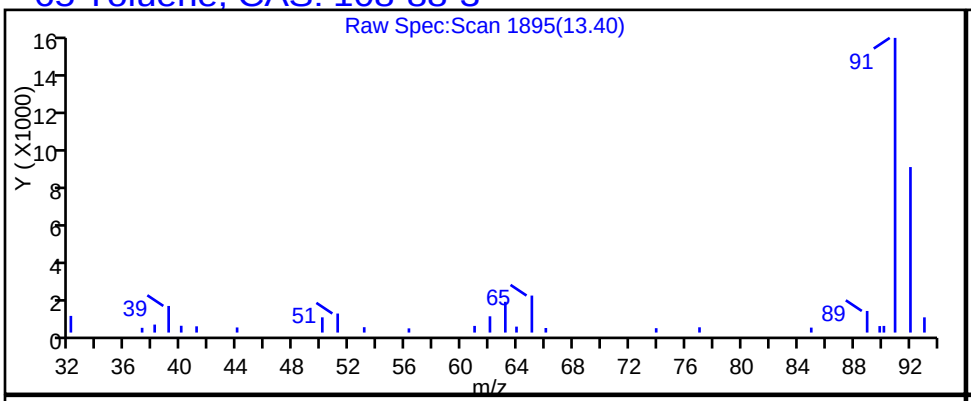


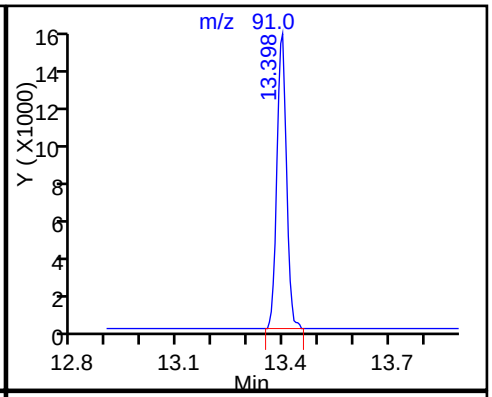
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

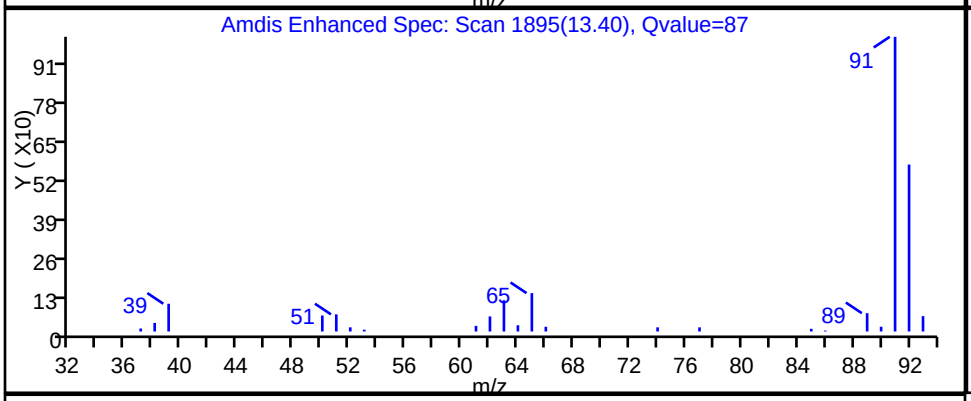
TestAmerica Knoxville

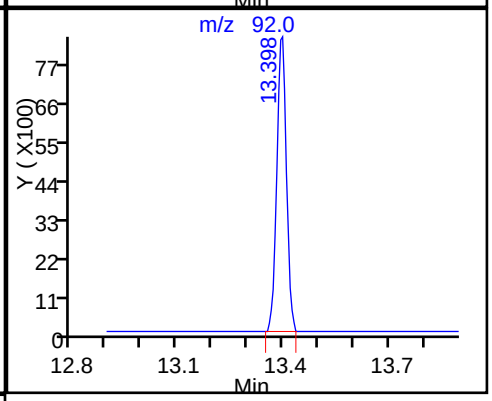
Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D		
Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12
Client ID:	PCV-IA3-B17		
Operator ID:	7126	ALS Bottle#:	10 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

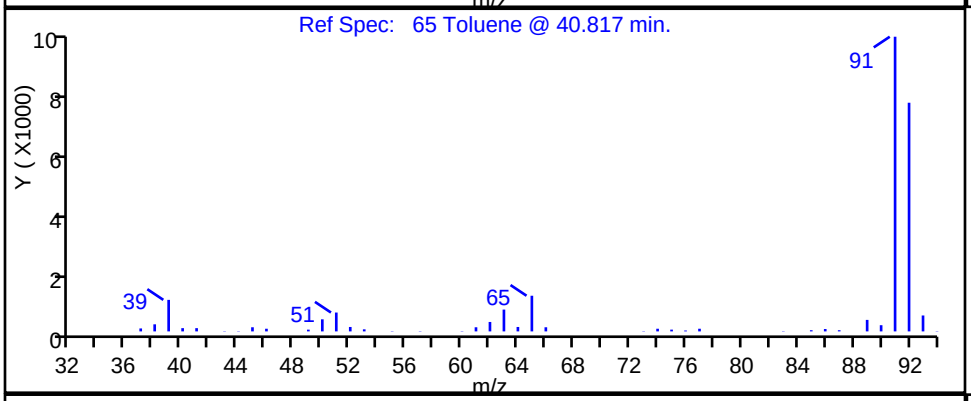
65 Toluene, CAS: 108-88-3

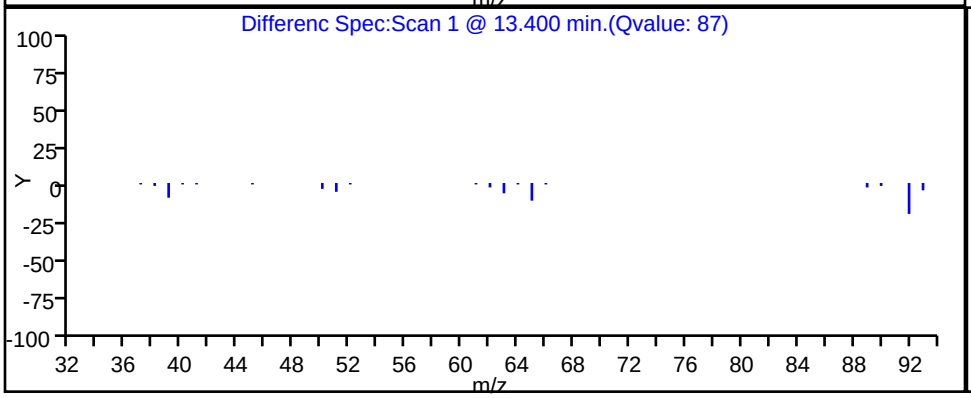


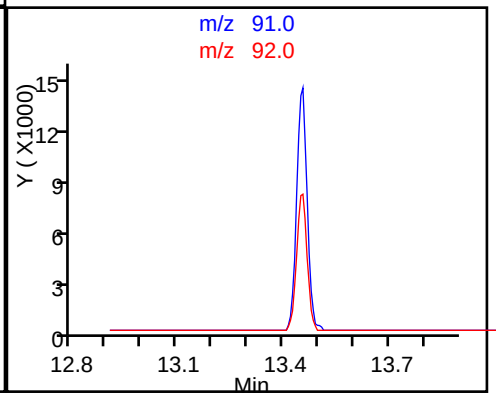












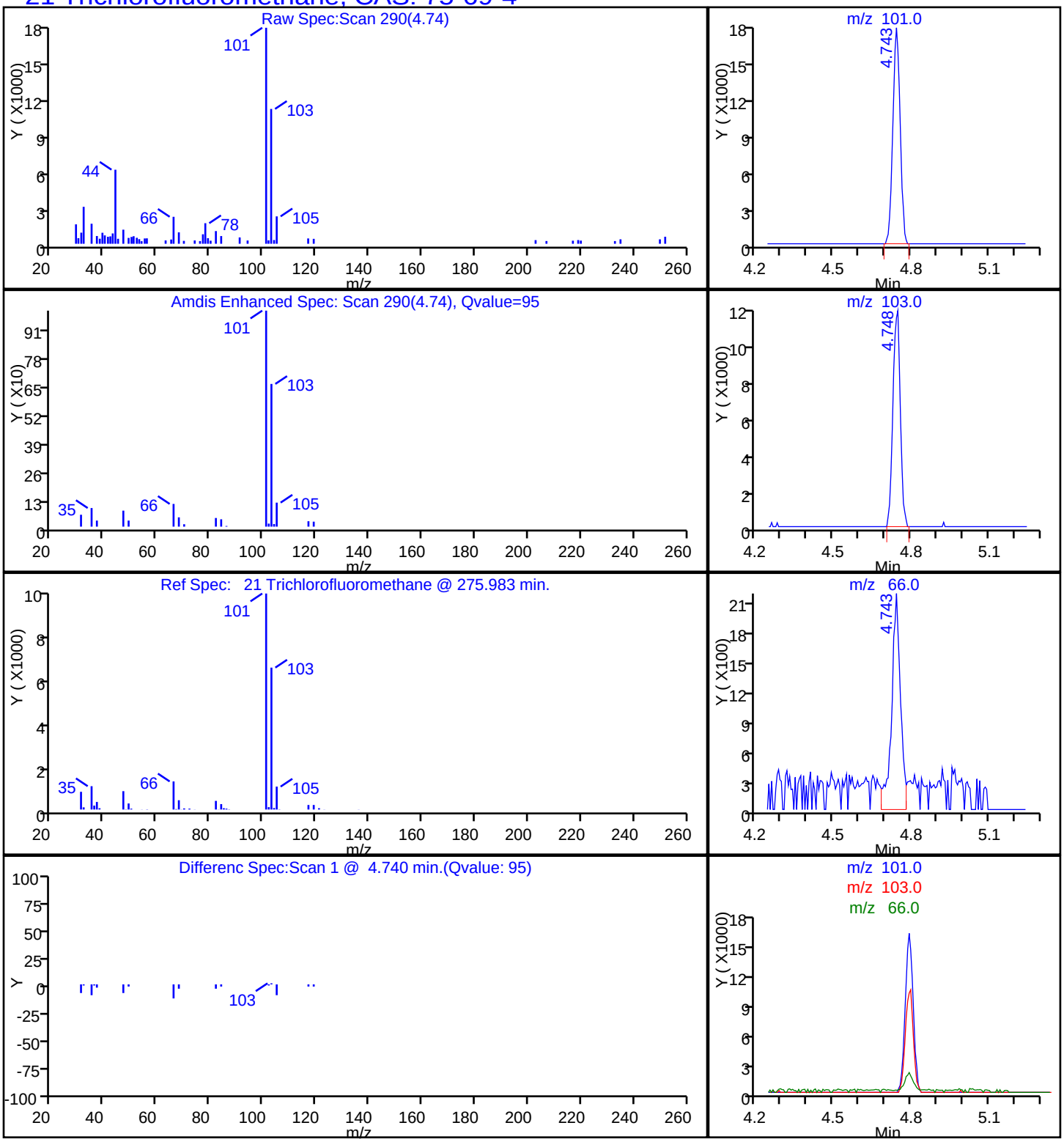
Report Date: 21-Mar-2014 09:37:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P110.D

Injection Date:	20-Mar-2014 23:16:30	Instrument ID:	ME		
Lims ID:	140-1060-A-12	Lab Sample ID:	140-1060-12		
Client ID:	PCV-IA3-B17				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

Matrix: Air Lab File ID: EC20P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.88		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.048	J	0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.16	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

Matrix: Air Lab File ID: EC20P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.18	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.41	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	9.9		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.081	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	18		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.3		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.13	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.76	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.057	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.18	J	0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.26		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

Matrix: Air Lab File ID: EC20P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

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Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.20	J	2.0	0.18
67-64-1	Acetone	58.08	5.8	J	12	3.3
71-43-2	Benzene	78.11	0.50	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

Matrix: Air Lab File ID: EC20P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.90	J	0.98	0.19
74-87-3	Chloromethane	50.49	0.85	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	19		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.29	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	45		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	4.6		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.57	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.39	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.67	J	0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA4-B17 Lab Sample ID: 140-1060-13

Matrix: Air Lab File ID: EC20P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D
Lims ID: 140-1060-A-13 Lab Sample ID: 140-1060-13
Client ID: PCV-IA4-B17
Sample Type: Client
Inject. Date: 21-Mar-2014 00:01:30 ALS Bottle#: 11 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-13
Misc. Info.: E032014,TO155,,140-0000533-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:38:21 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:38:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	303649	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1485266	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1265513	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	1077736	3.89	
7 Propene	41	3.320	3.314	0.006	72	23225	0.3041	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	58761	0.1749	
9 Chloromethane	52	3.530	3.530	0.0	97	4399	0.1641	
17 Ethanol	31	4.317	4.317	0.0	98	120421	3.97	
19 2-Methylbutane	43	4.538	4.538	0.0	86	37497	0.3526	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	35059	0.1041	
23 Acetone	58	4.878	4.883	-0.005	92	45024	0.9790	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	97	857952	7.25	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	79	5737	0.0275	
31 Methylene Chloride	84	5.784	5.789	-0.005	77	45877	0.5287	
40 Hexane	56	7.580	7.585	-0.005	70	2619	0.0324	
43 Chloroform	83	8.345	8.356	-0.011	66	19112	0.0735	
48 Benzene	78	9.990	9.995	-0.005	90	18632	0.0623	
50 Carbon tetrachloride	117	10.012	10.017	-0.005	90	7746	0.0270	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	72	3384	0.0192	
65 Toluene	91	13.398	13.398	0.0	85	23990	0.0708	
73 Tetrachloroethene	129	14.552	14.552	0.0	81	3317	0.0230	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	94	18033	0.0528	

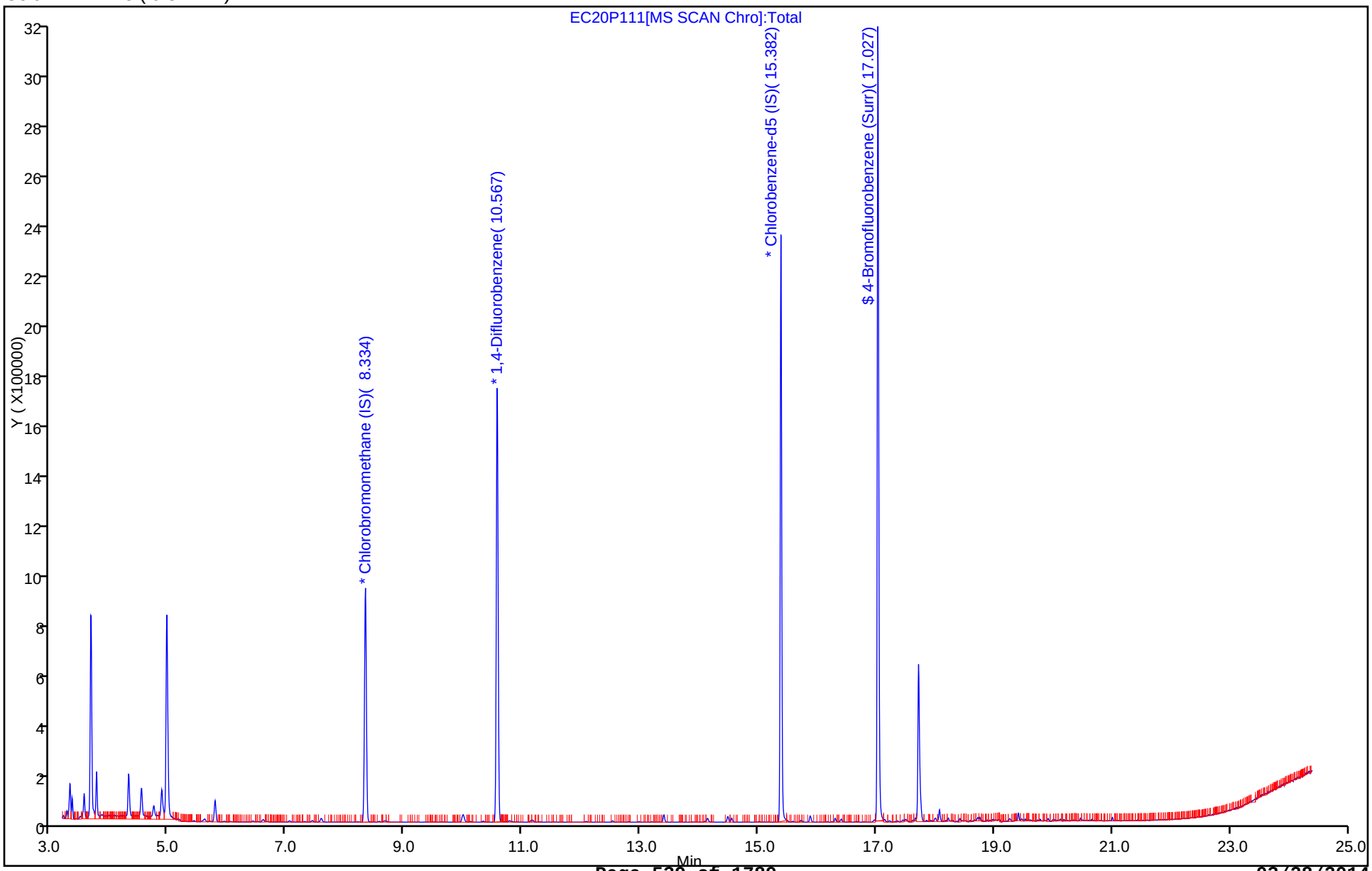
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13	Worklist Smp#:	15
Client ID:	PCV-IA4-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date: 21-Mar-2014 00:01:30 Instrument ID: ME

Lims ID: 140-1060-A-13 Lab Sample ID: 140-1060-13

Client ID: PCV-IA4-B17

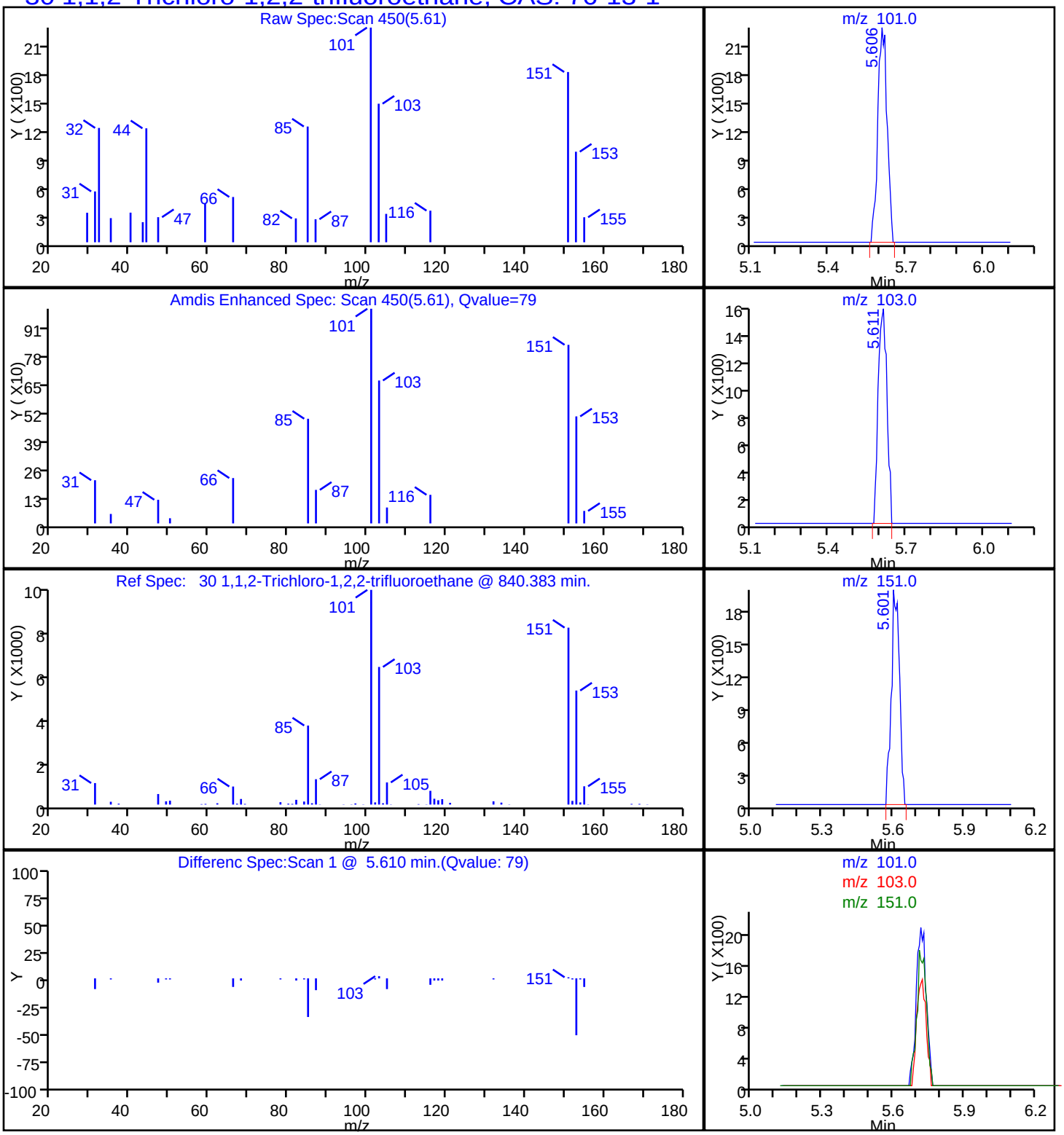
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



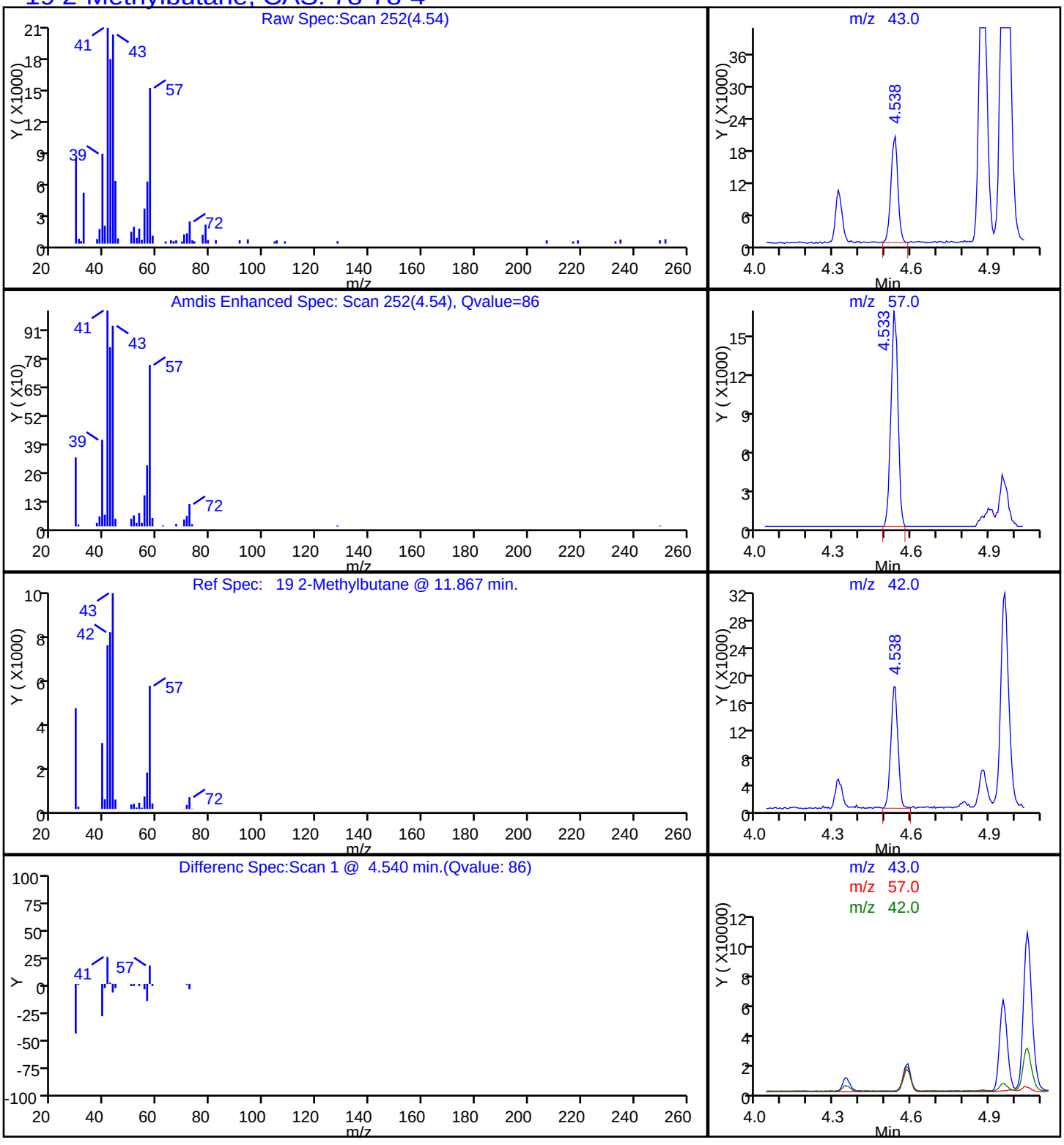
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13
Client ID:	PCV-IA4-B17		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4

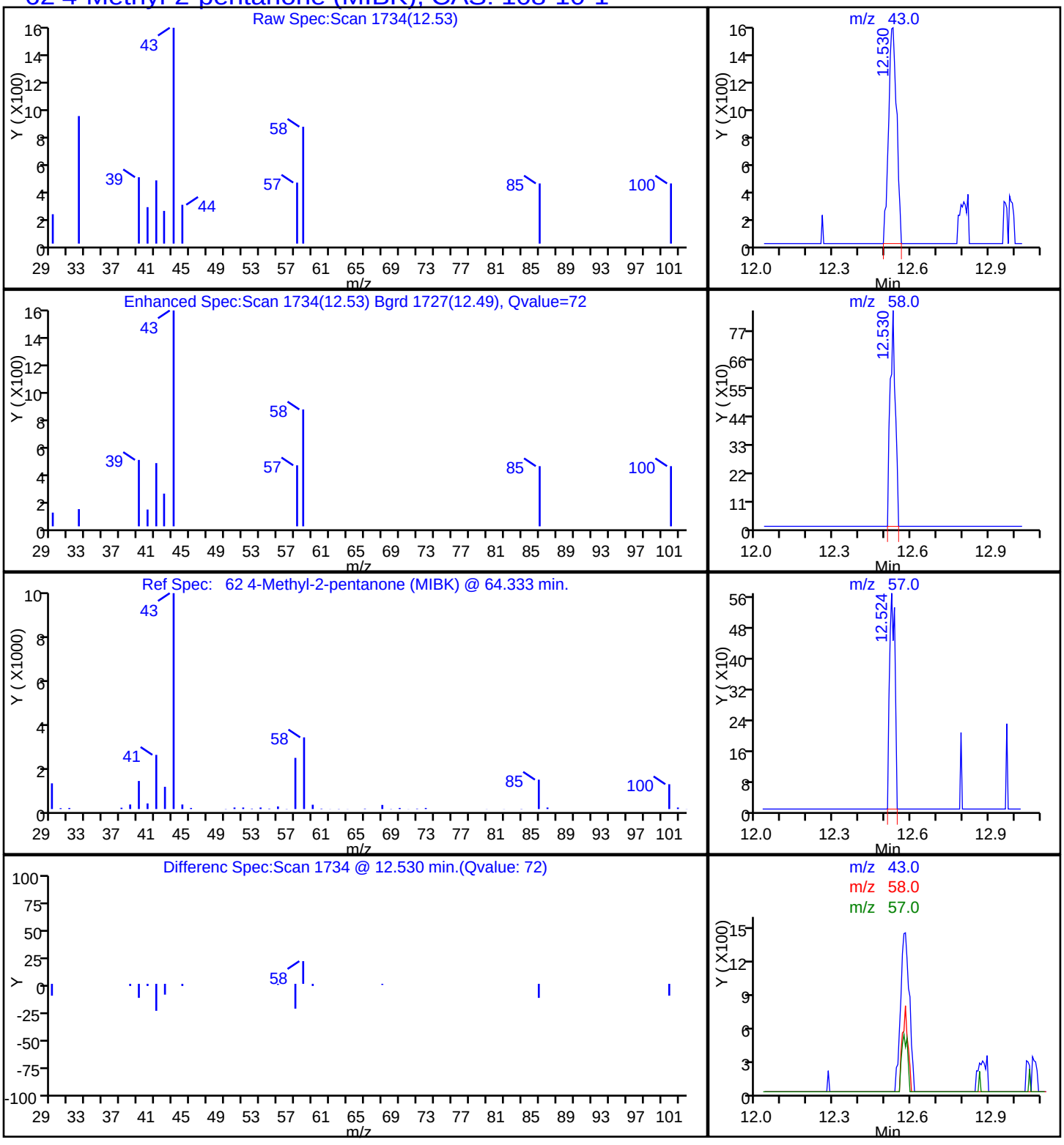


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

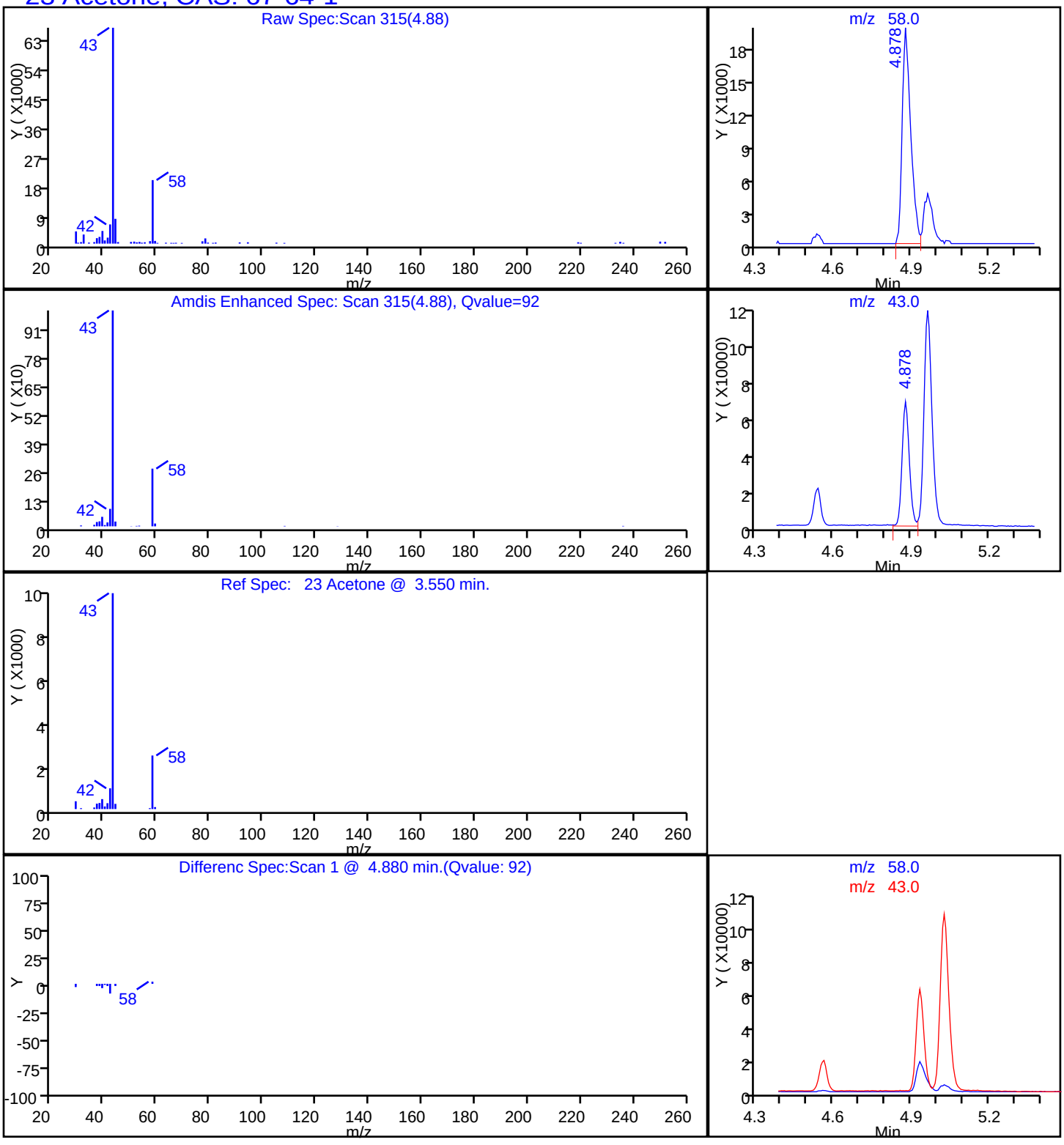


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D		
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13
Client ID:	PCV-IA4-B17		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

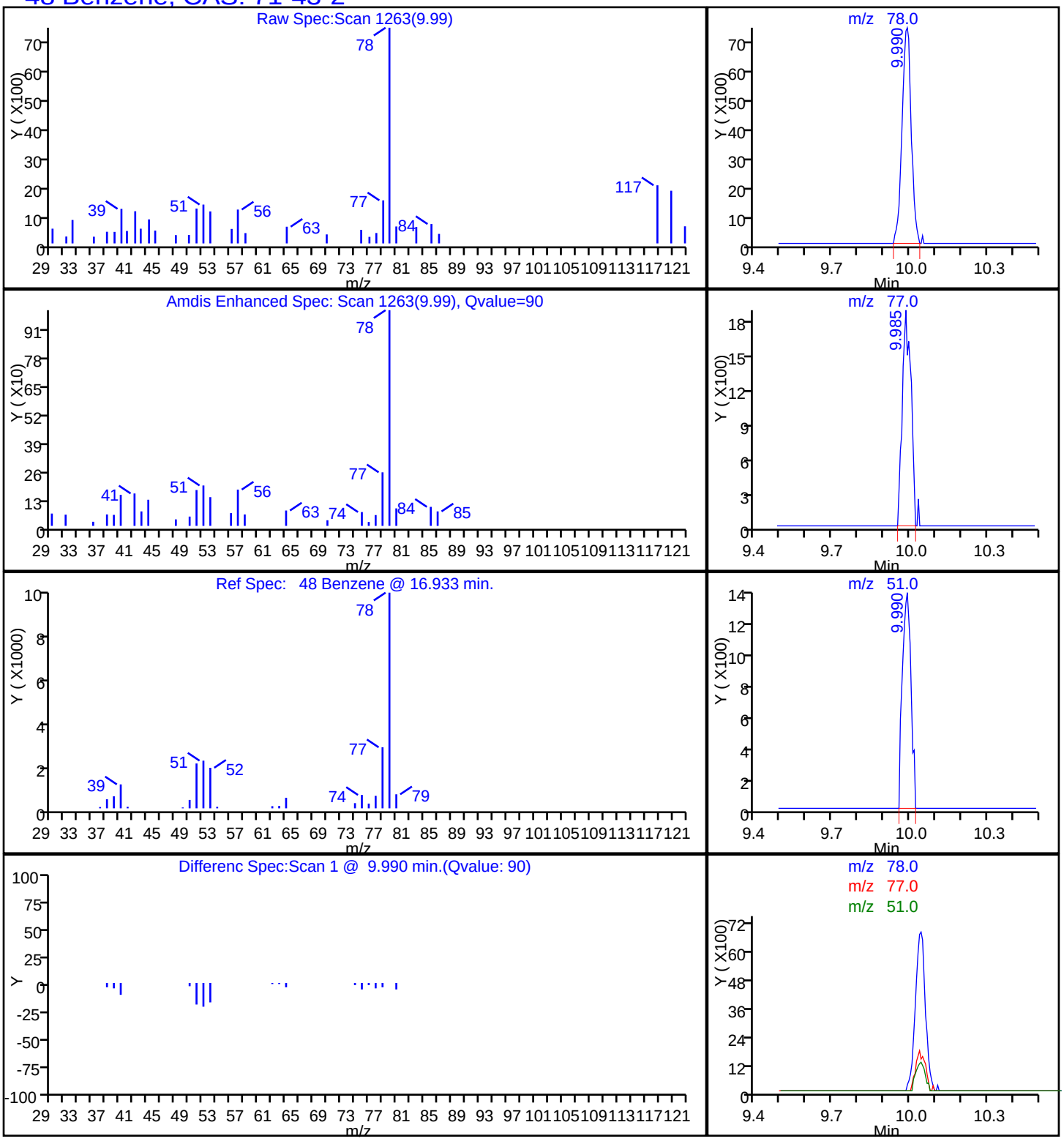


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



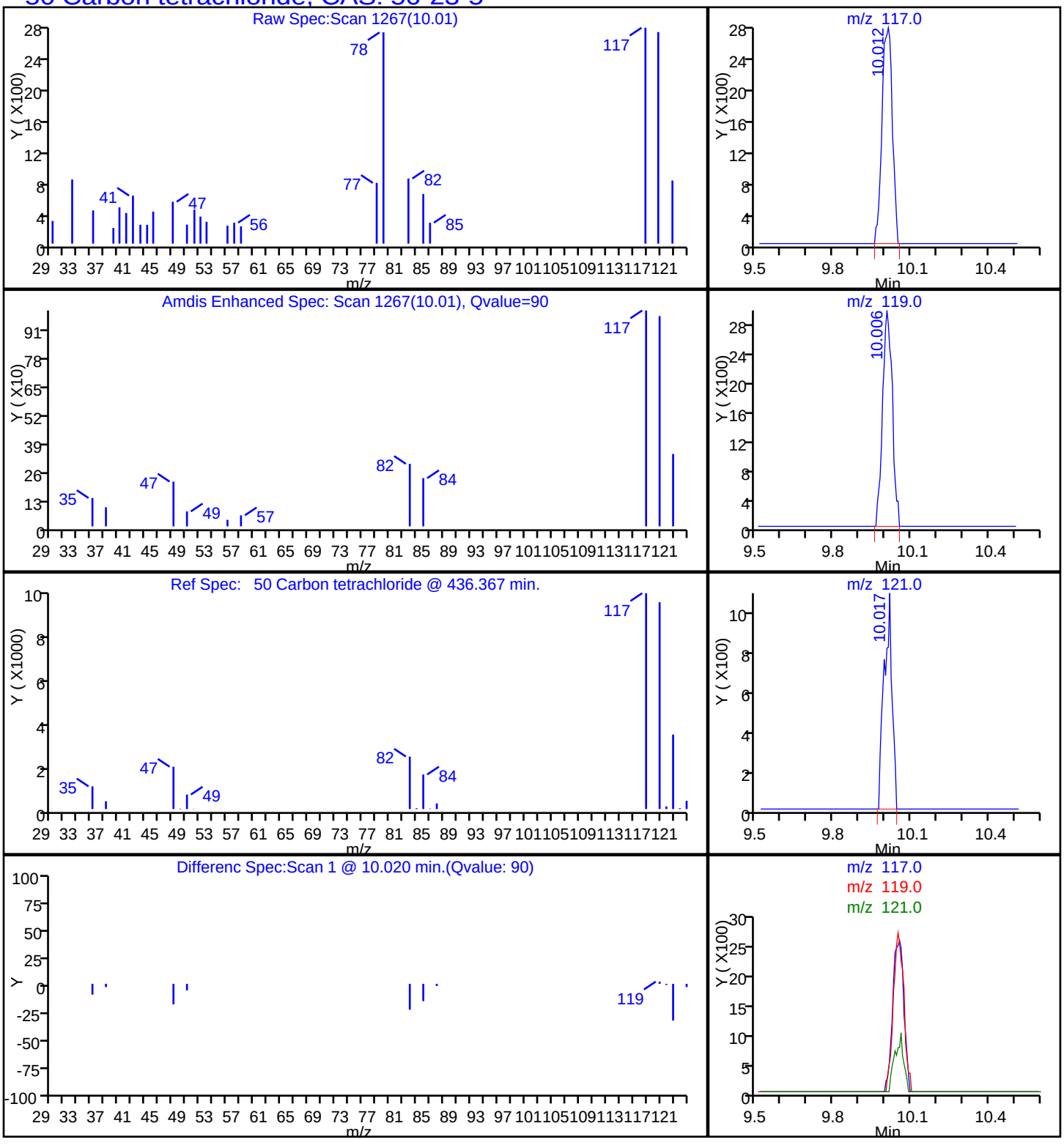
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13
Client ID:	PCV-IA4-B17		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

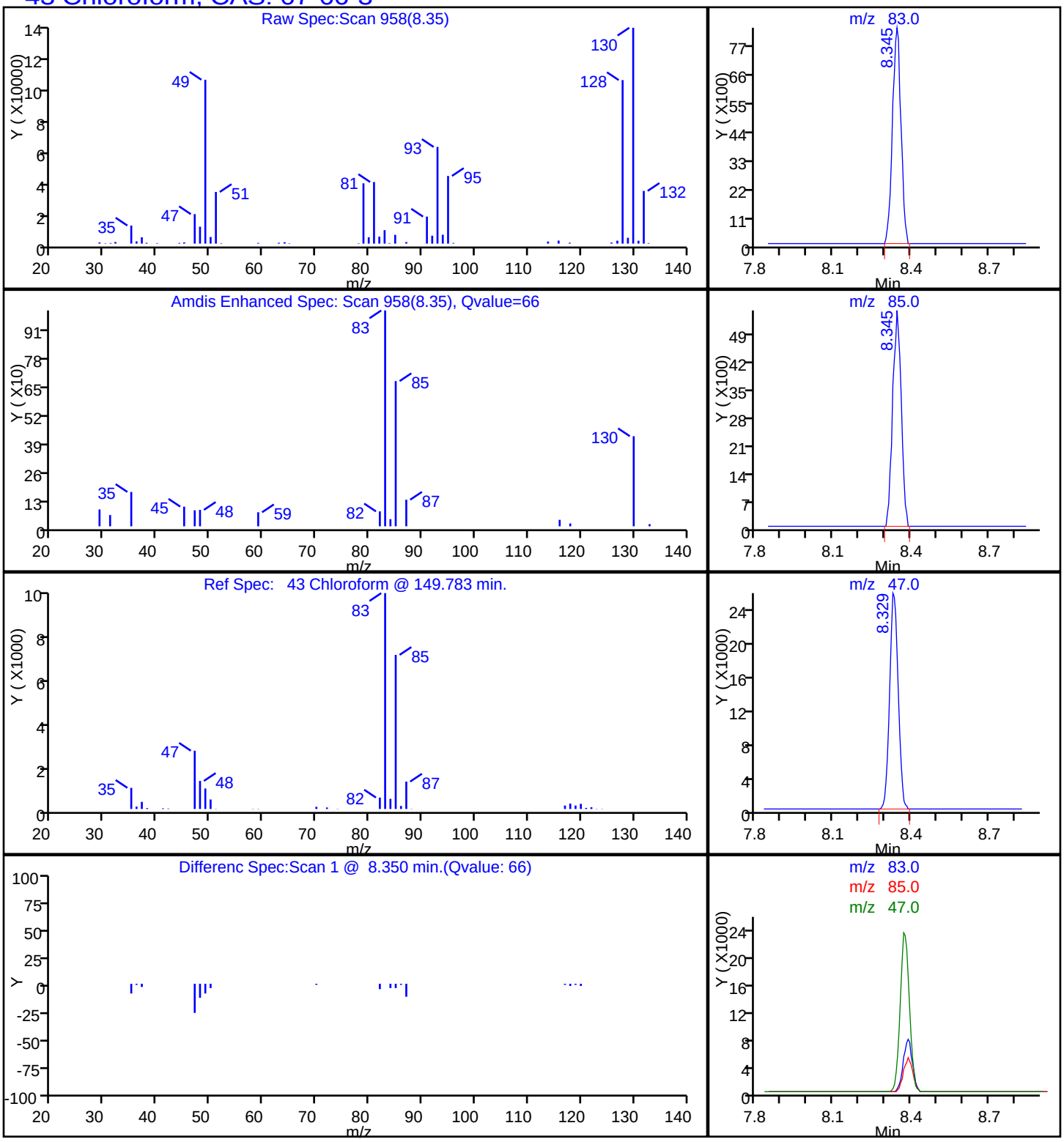


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date: 21-Mar-2014 00:01:30 Instrument ID: ME

Lims ID: 140-1060-A-13 Lab Sample ID: 140-1060-13

Client ID: PCV-IA4-B17

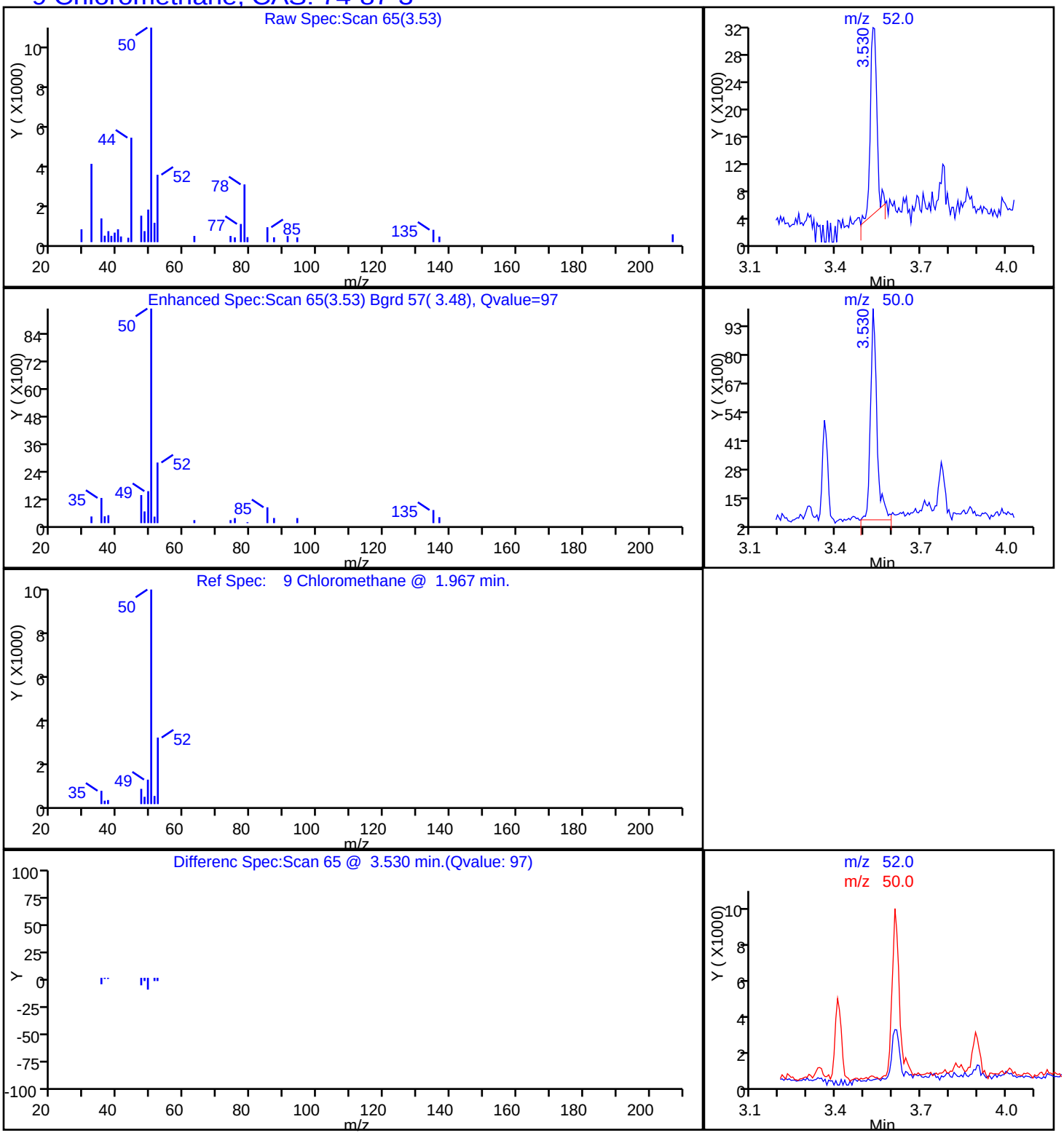
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3

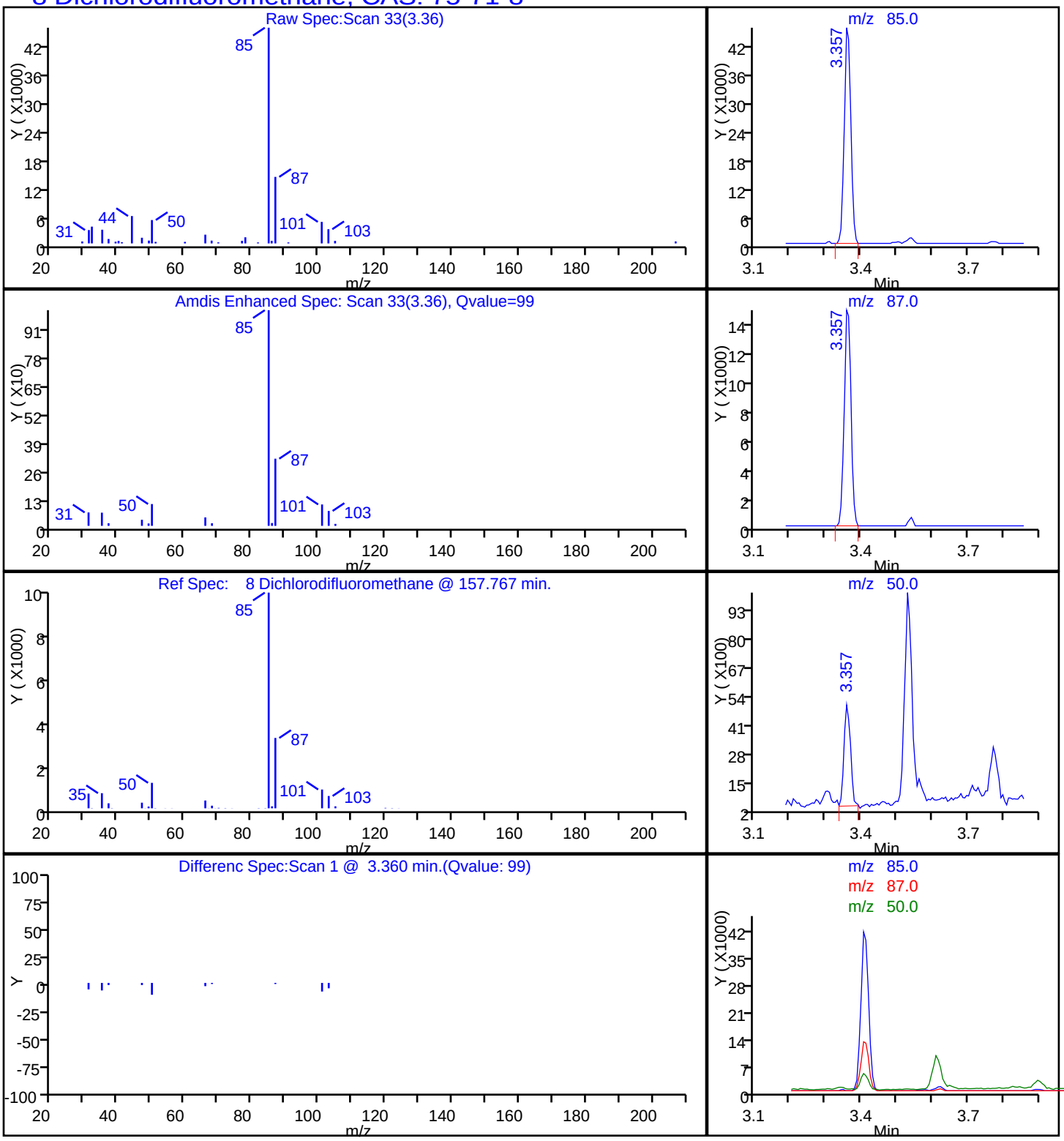


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

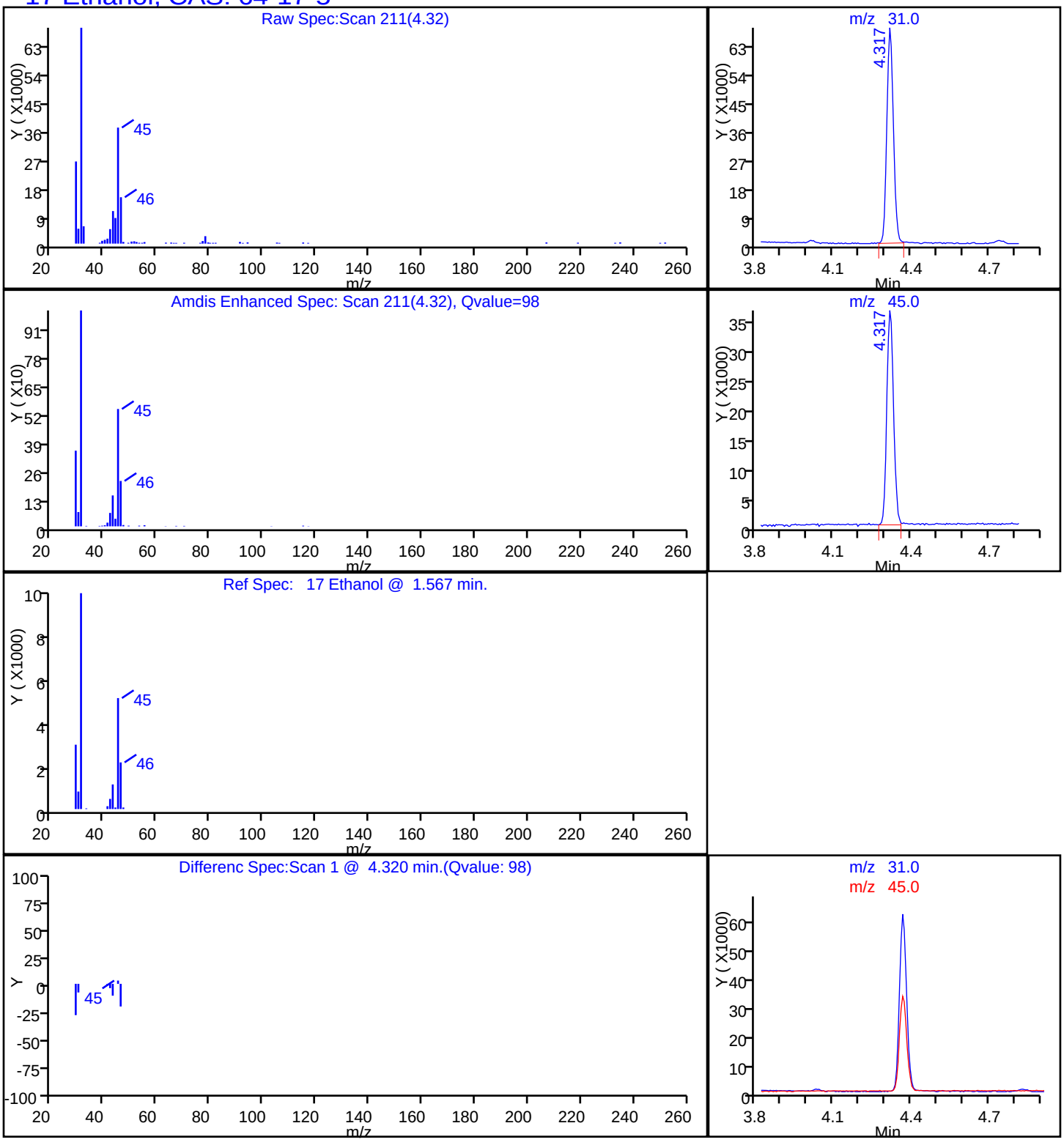


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



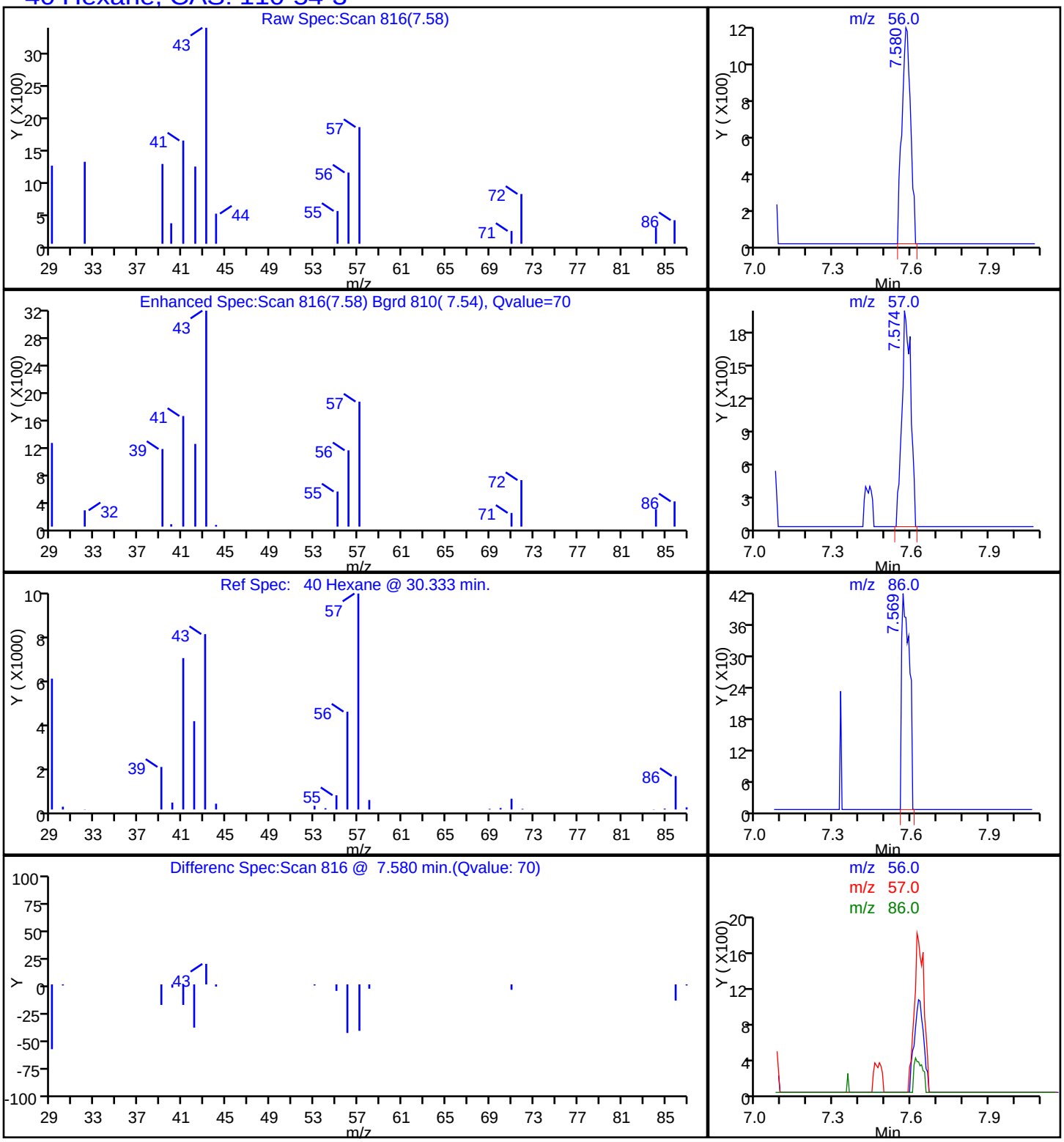
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



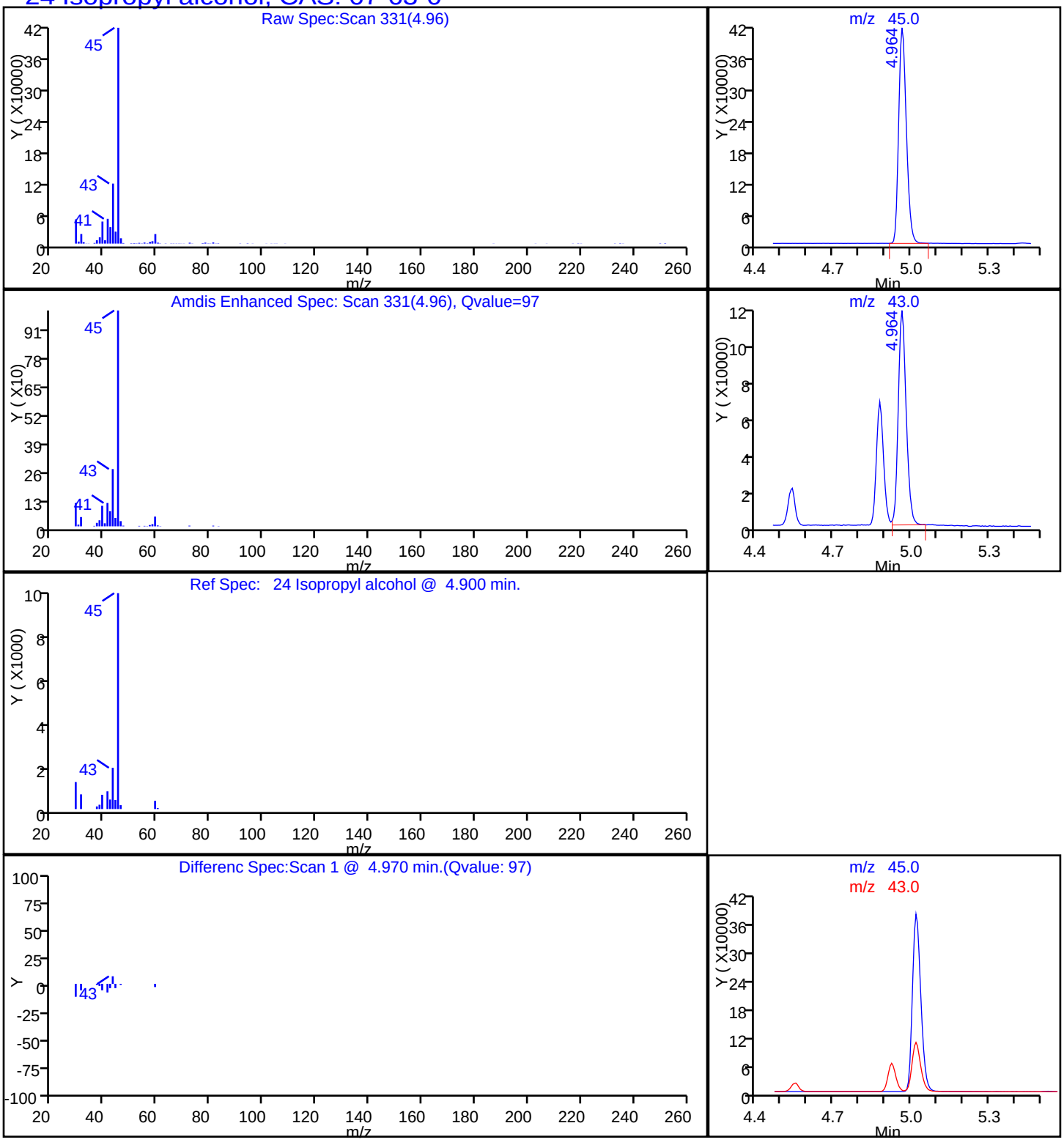
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



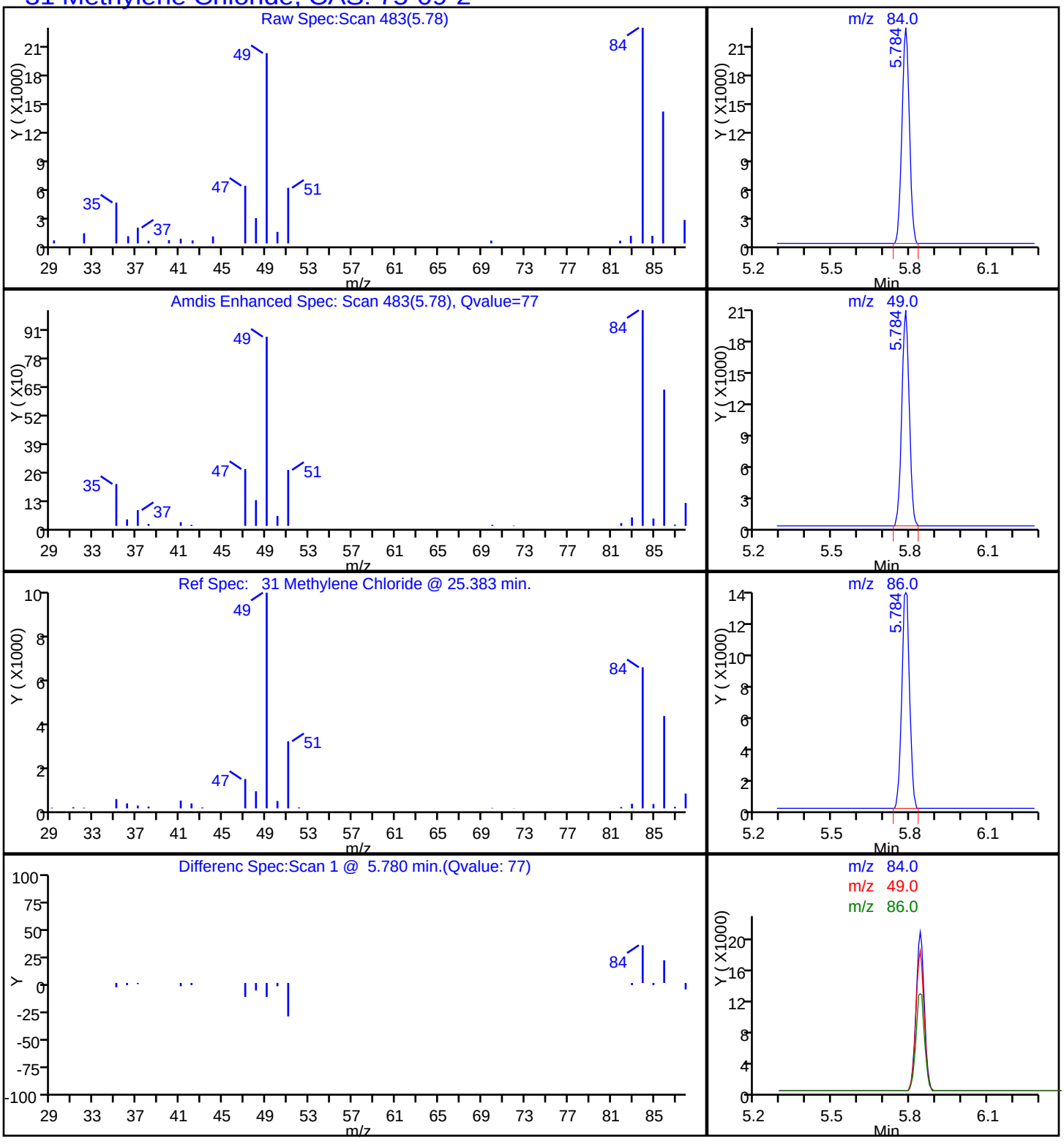
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

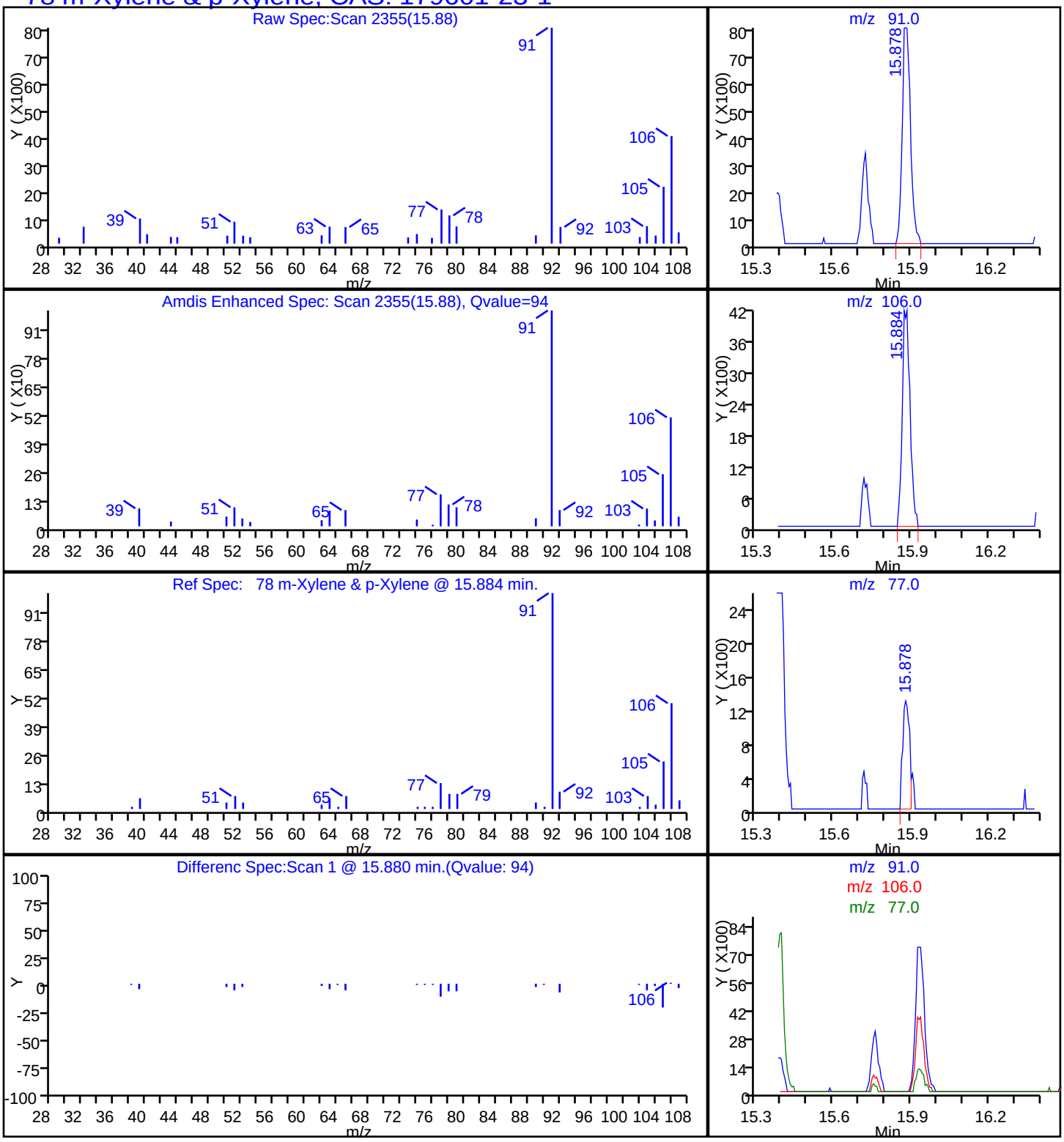


Report Date: 21-Mar-2014 09:38:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



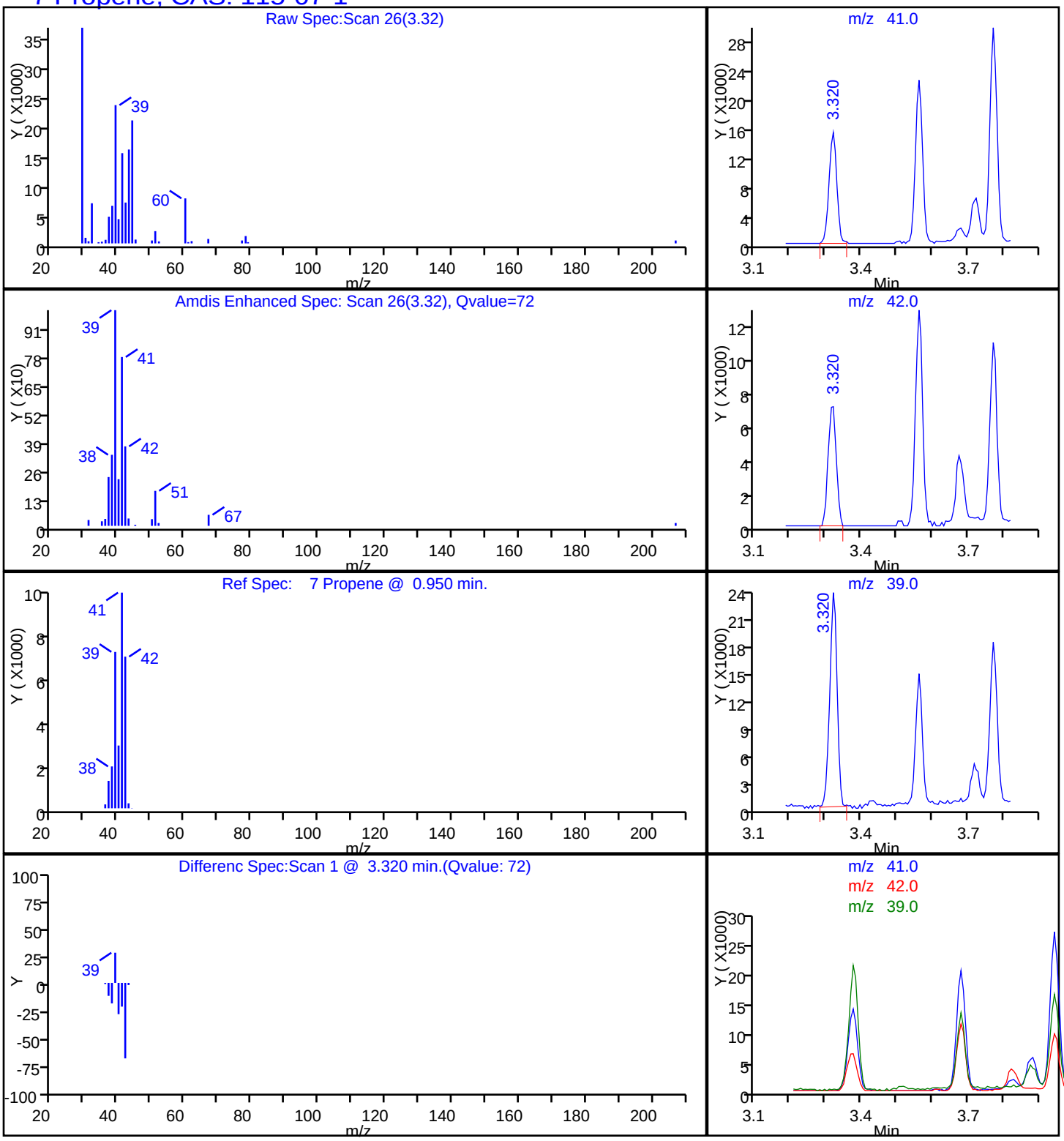
Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13
Client ID:	PCV-IA4-B17		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



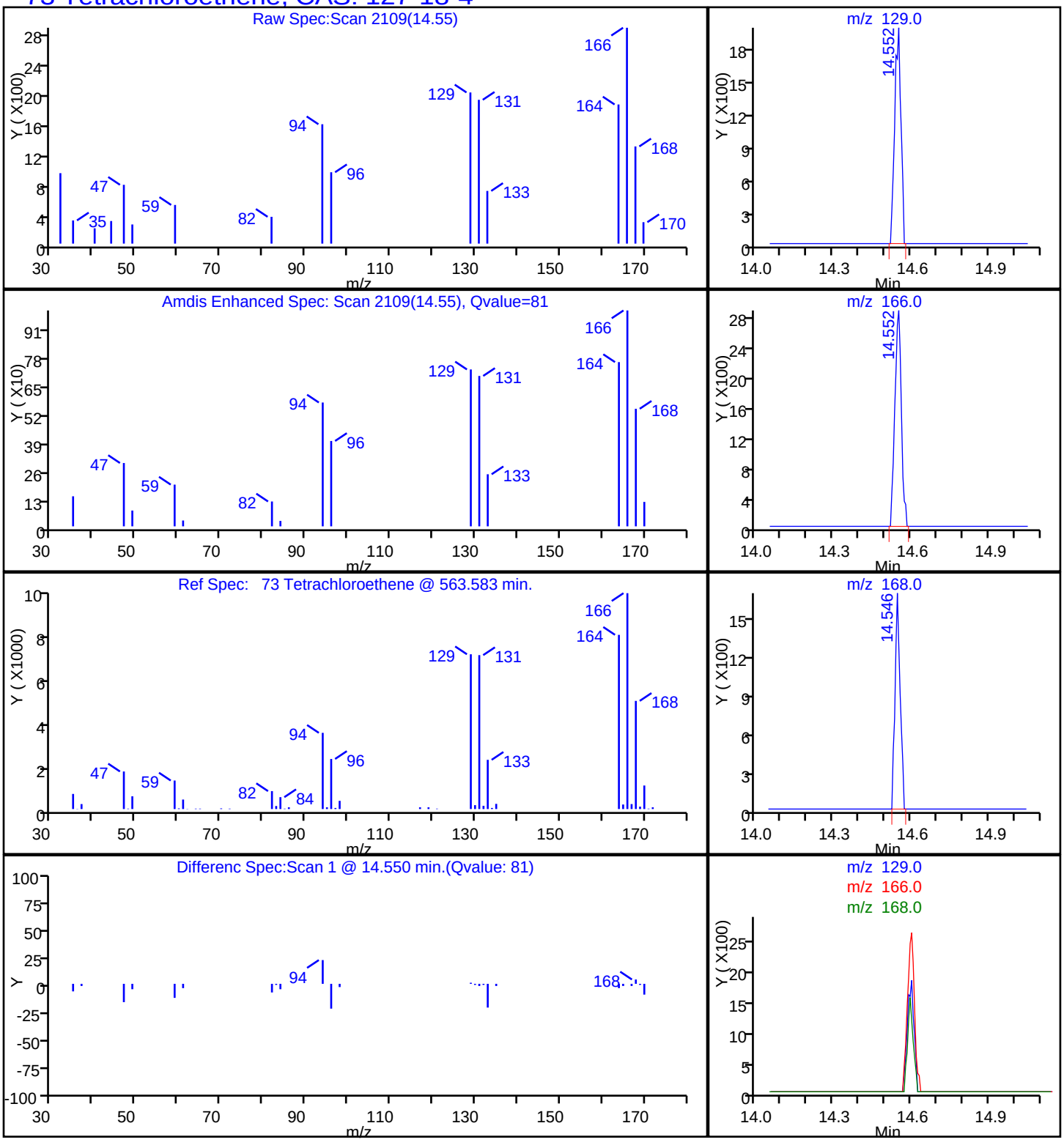
Report Date: 21-Mar-2014 09:38:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D

Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13
Client ID:	PCV-IA4-B17		
Operator ID:	7126	ALS Bottle#:	11 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

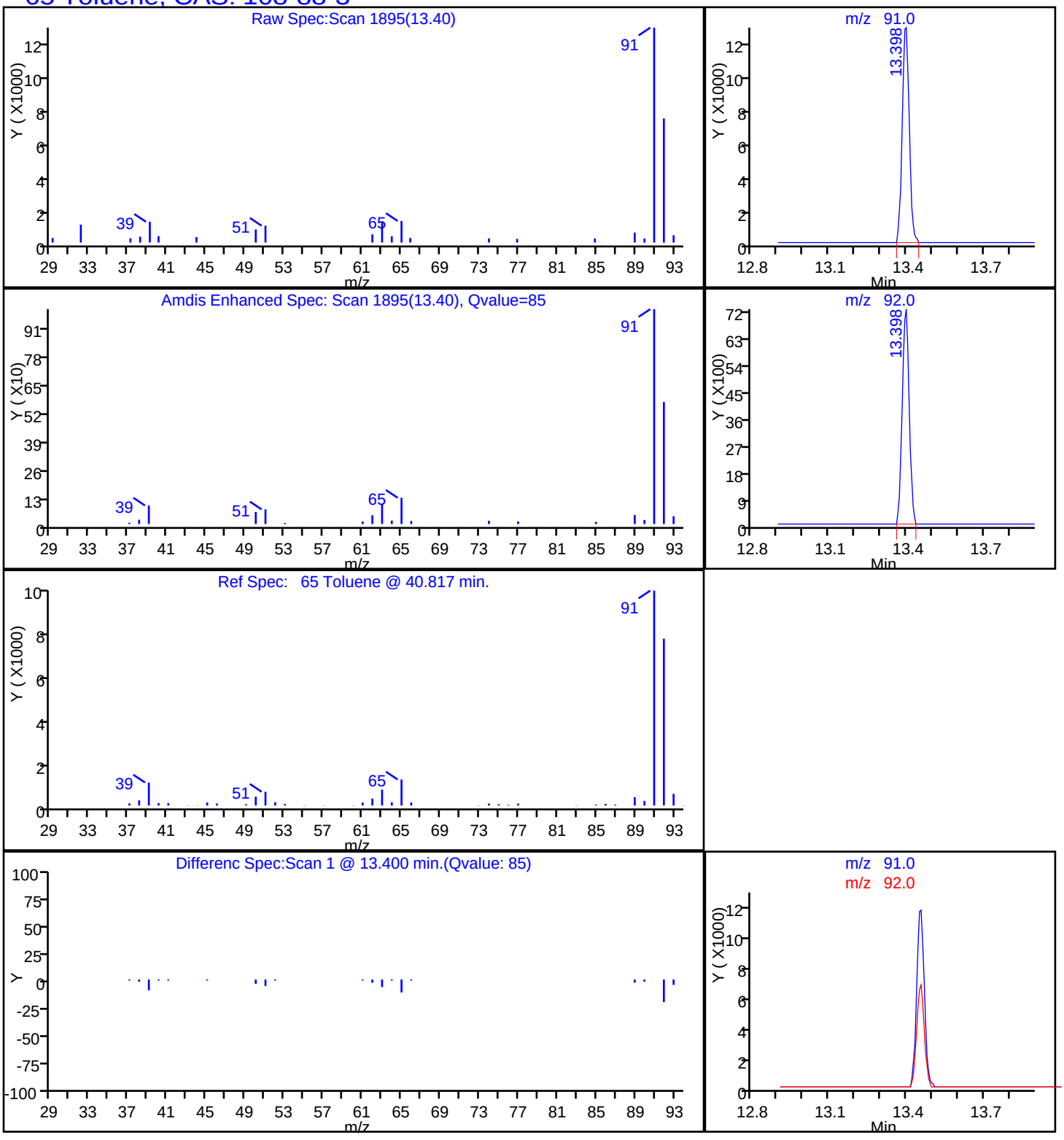
73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

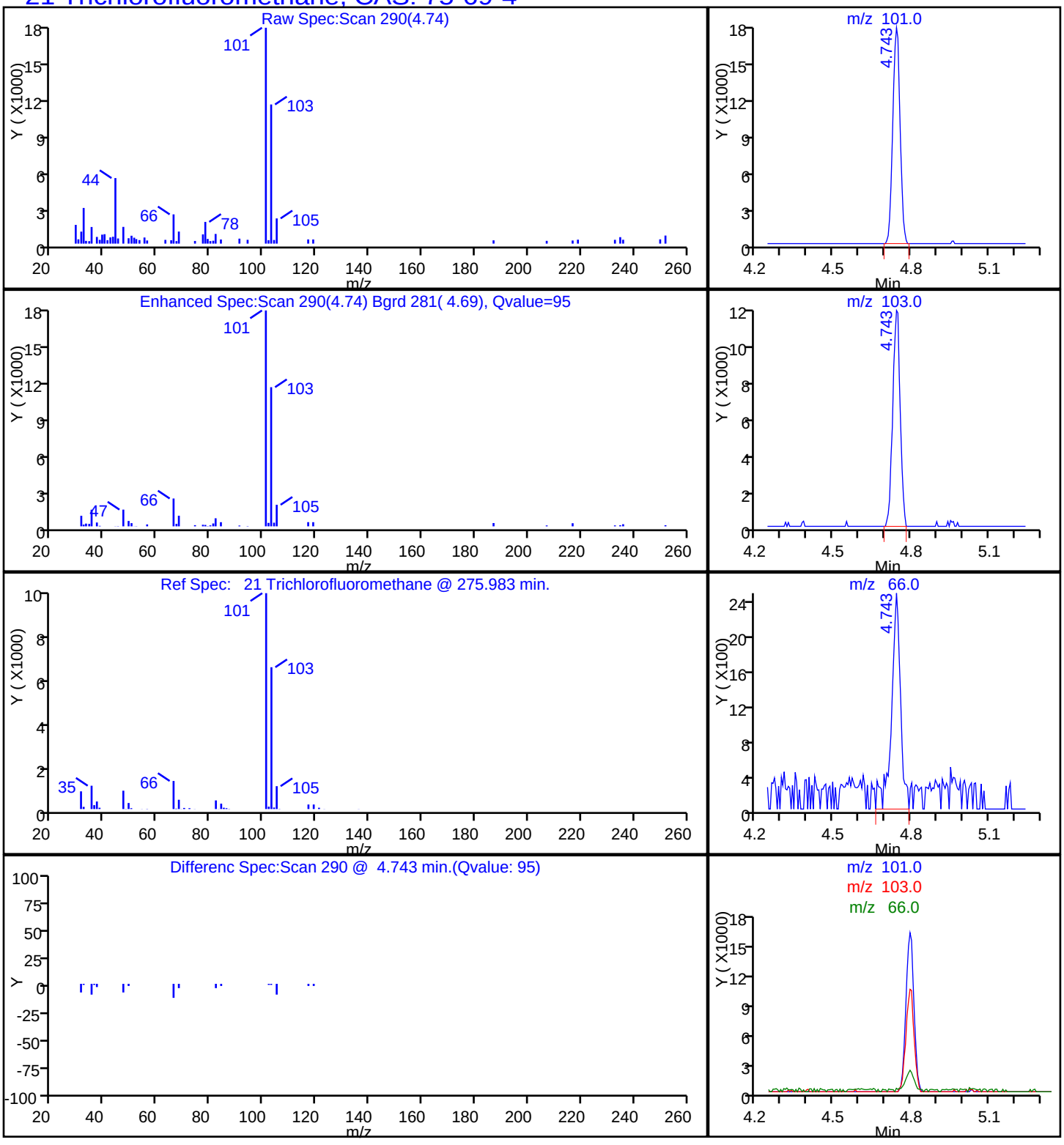


Report Date: 21-Mar-2014 09:38:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P111.D				
Injection Date:	21-Mar-2014 00:01:30	Instrument ID:	ME		
Lims ID:	140-1060-A-13	Lab Sample ID:	140-1060-13		
Client ID:	PCV-IA4-B17				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.075	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.087	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.040	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.31	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.88		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.11	J	0.50	0.045
67-64-1	Acetone	58.08	4.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.26		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.034	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	0.10	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.084	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.60		0.20	0.038
74-87-3	Chloromethane	50.49	0.73		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	Ethanol	46.07	24		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.055	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.10	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	3.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.7		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	0.16	J *	0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.055	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.22		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.19	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.92	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	2.0	0.18
67-64-1	Acetone	58.08	10	J	12	3.3
71-43-2	Benzene	78.11	0.82		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.13	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	0.31	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.53	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	2.9		0.98	0.19
74-87-3	Chloromethane	50.49	1.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	Ethanol	46.07	44		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.36	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	7.7		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	5.9		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	0.86	J *	2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	2.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.37	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.84		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA5-B17 Lab Sample ID: 140-1060-14

Matrix: Air Lab File ID: EC20P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 15:55

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D
Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14
Client ID: PCV-IA5-B17
Sample Type: Client
Inject. Date: 21-Mar-2014 00:47:30 ALS Bottle#: 12 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-14
Misc. Info.: E032014,TO155,,140-0000533-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:39:21 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:39:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	266274	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1183778	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1040863	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	864587	3.79	
7 Propene	41	3.319	3.314	0.005	93	31854	0.4756	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	57604	0.1956	
9 Chloromethane	52	3.530	3.530	0.0	96	6903	0.2936	
13 Butadiene	54	3.778	3.772	0.006	28	2178	0.0347	
15 Bromomethane	94	4.074	4.080	-0.006	56	1318	0.0134	
17 Ethanol	31	4.317	4.317	0.0	97	251078	9.43	
19 2-Methylbutane	43	4.533	4.538	-0.005	85	32996	0.3538	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	34533	0.1169	
23 Acetone	58	4.878	4.883	-0.005	92	69440	1.72	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	91	129898	1.25	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	78	5502	0.0301	
31 Methylene Chloride	84	5.784	5.789	-0.005	78	51998	0.6834	
33 Carbon disulfide	76	5.935	5.940	-0.005	82	11125	0.0404	
39 2-Butanone (MEK)	72	7.585	7.579	0.006	89	5452	0.1251	
40 Hexane	56	7.579	7.585	-0.006	58	2913	0.0411	
43 Chloroform	83	8.345	8.356	-0.011	80	54671	0.2396	
48 Benzene	78	9.984	9.995	-0.011	94	24457	0.1027	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	88	7709	0.0337	
53 Isooctane	57	10.777	10.788	-0.011	65	5908	0.0161	
54 n-Heptane	71	11.171	11.182	-0.011	29	1981	0.0220	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	74	6012	0.0429	
65 Toluene	91	13.398	13.398	0.0	87	24774	0.0888	
73 Tetrachloroethene	129	14.546	14.552	-0.006	77	2626	0.0221	
112 Naphthalene	128	20.796	20.796	0.0	94	15126	0.0654	

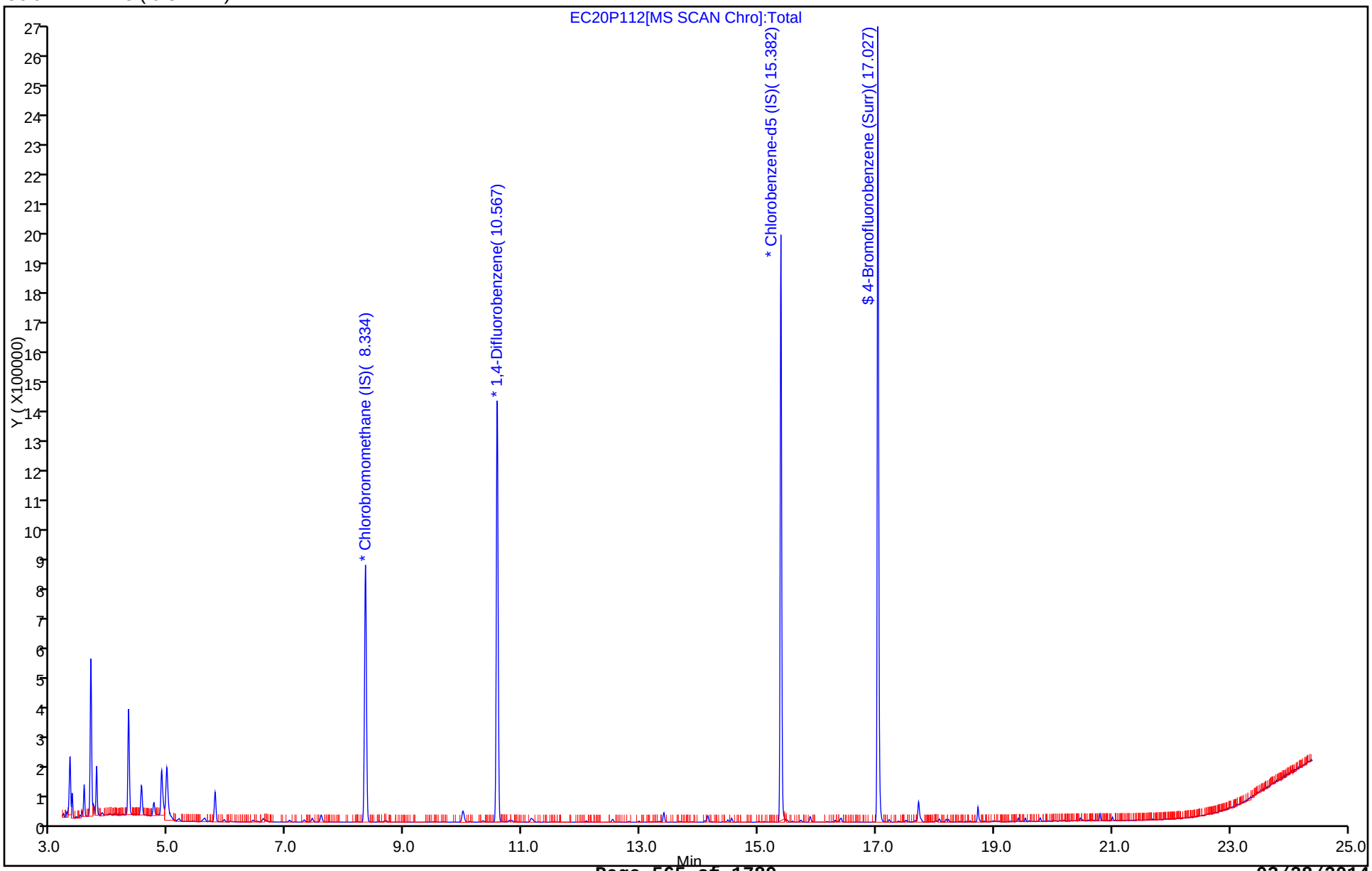
Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14	Worklist Smp#:	16
Client ID:	PCV-IA5-B17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

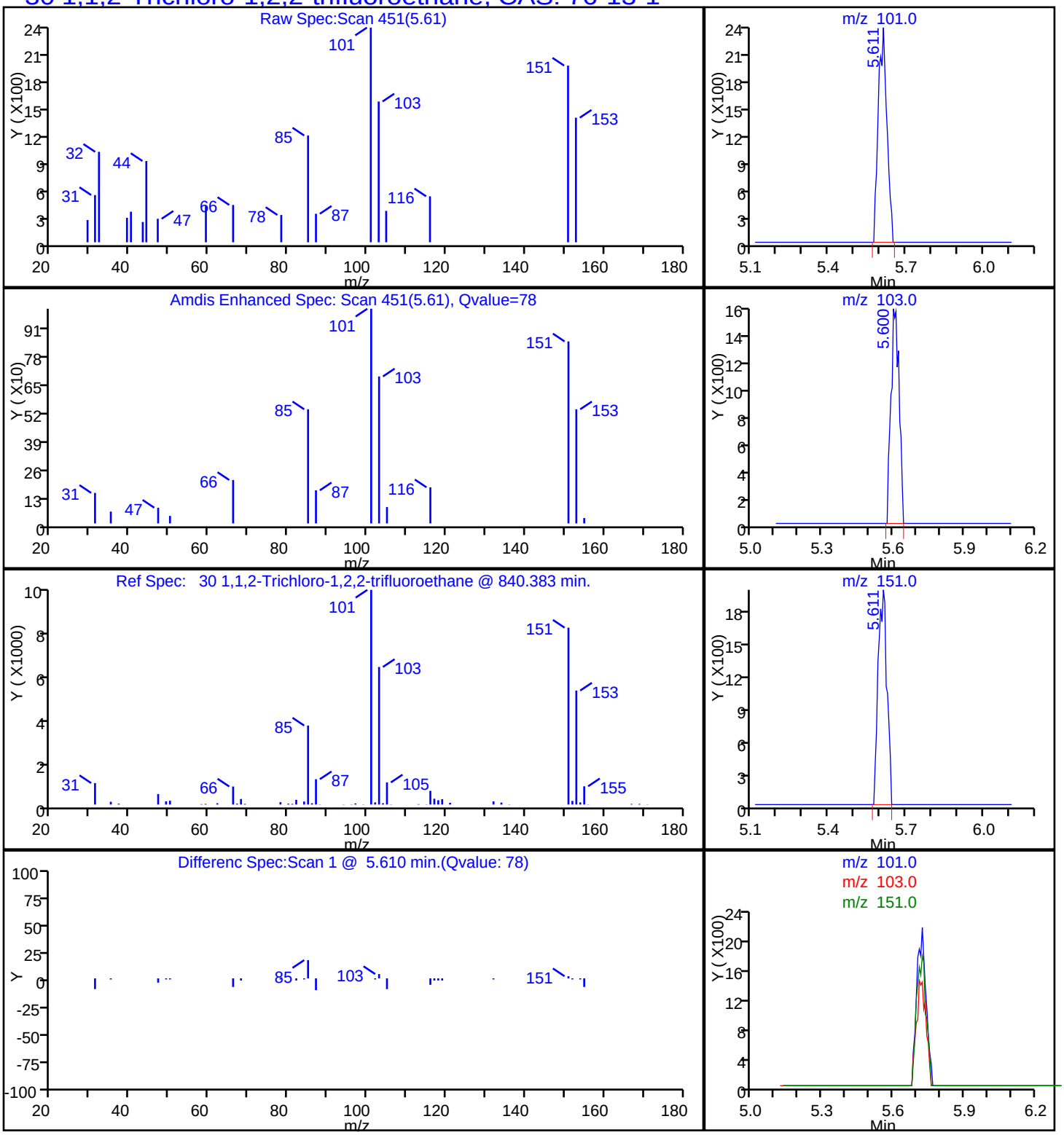
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

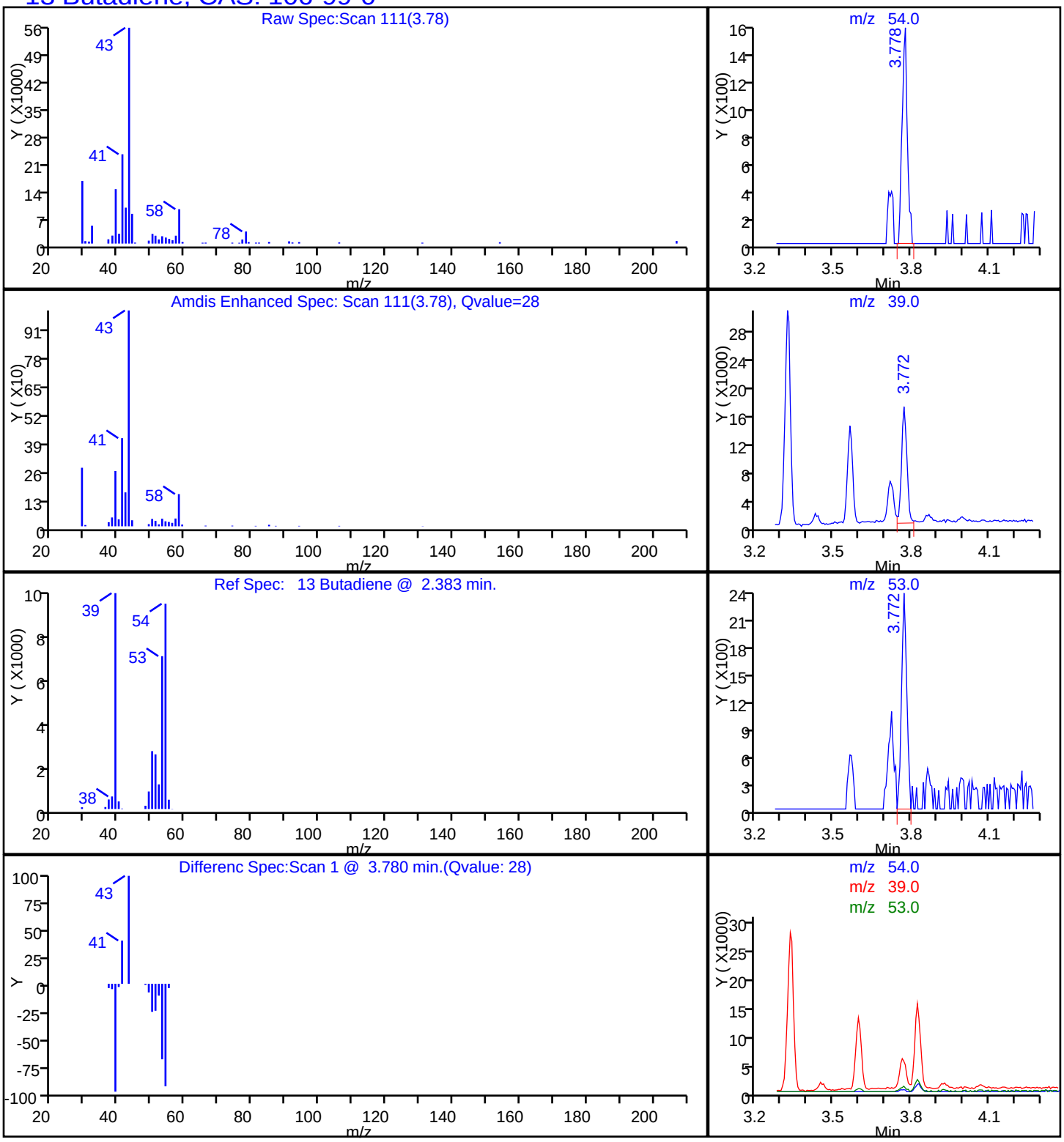


Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0

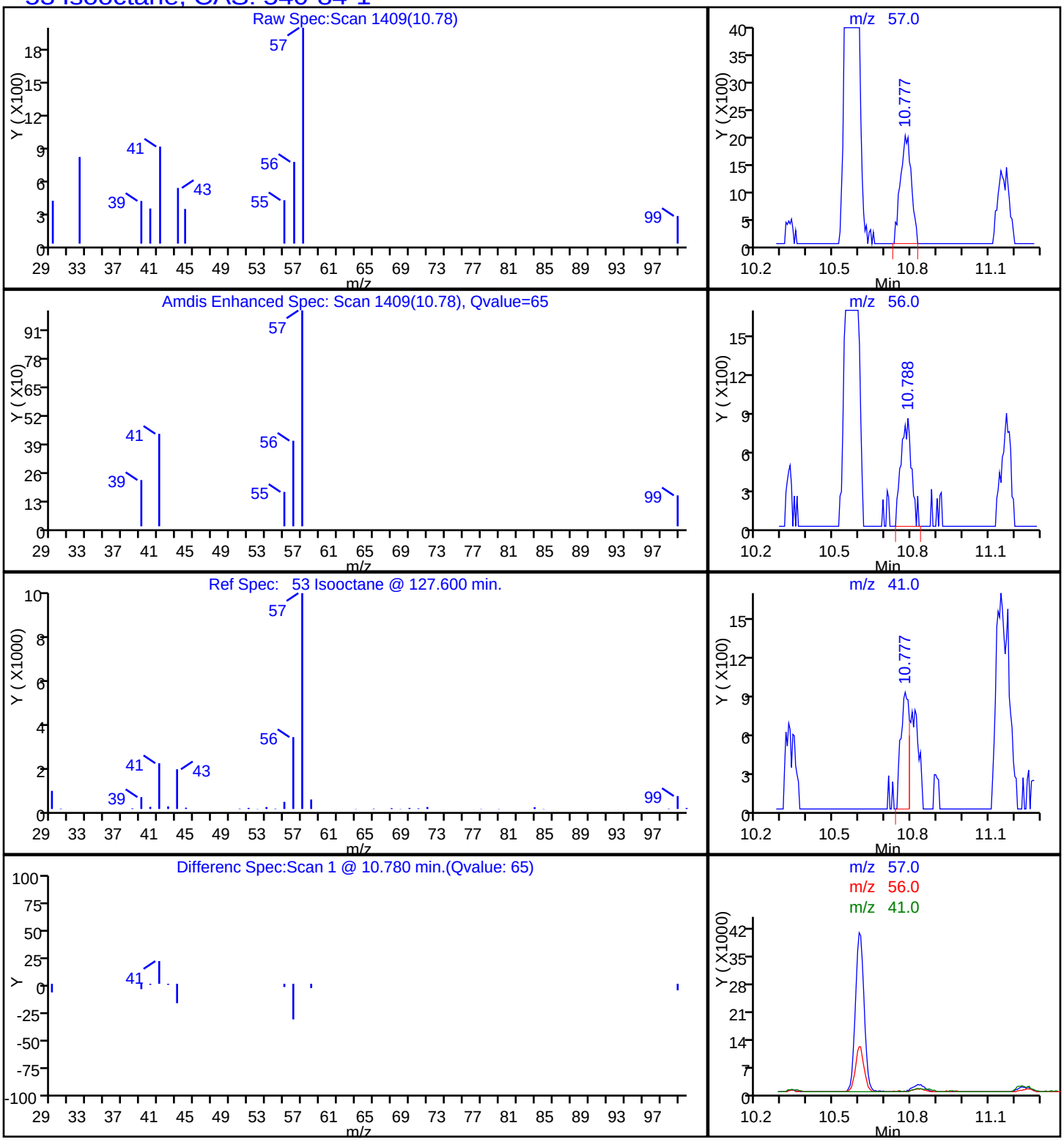


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

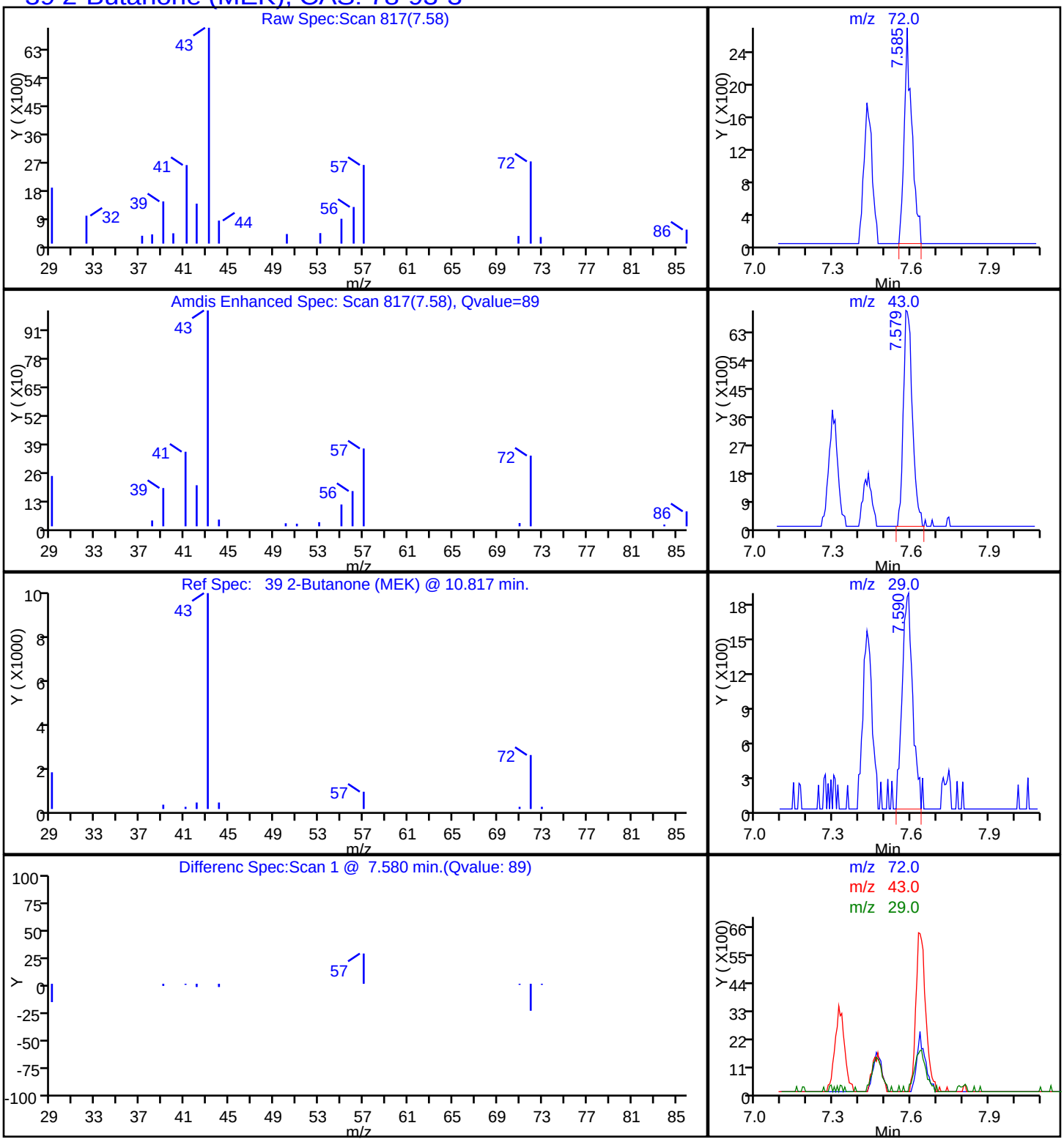
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



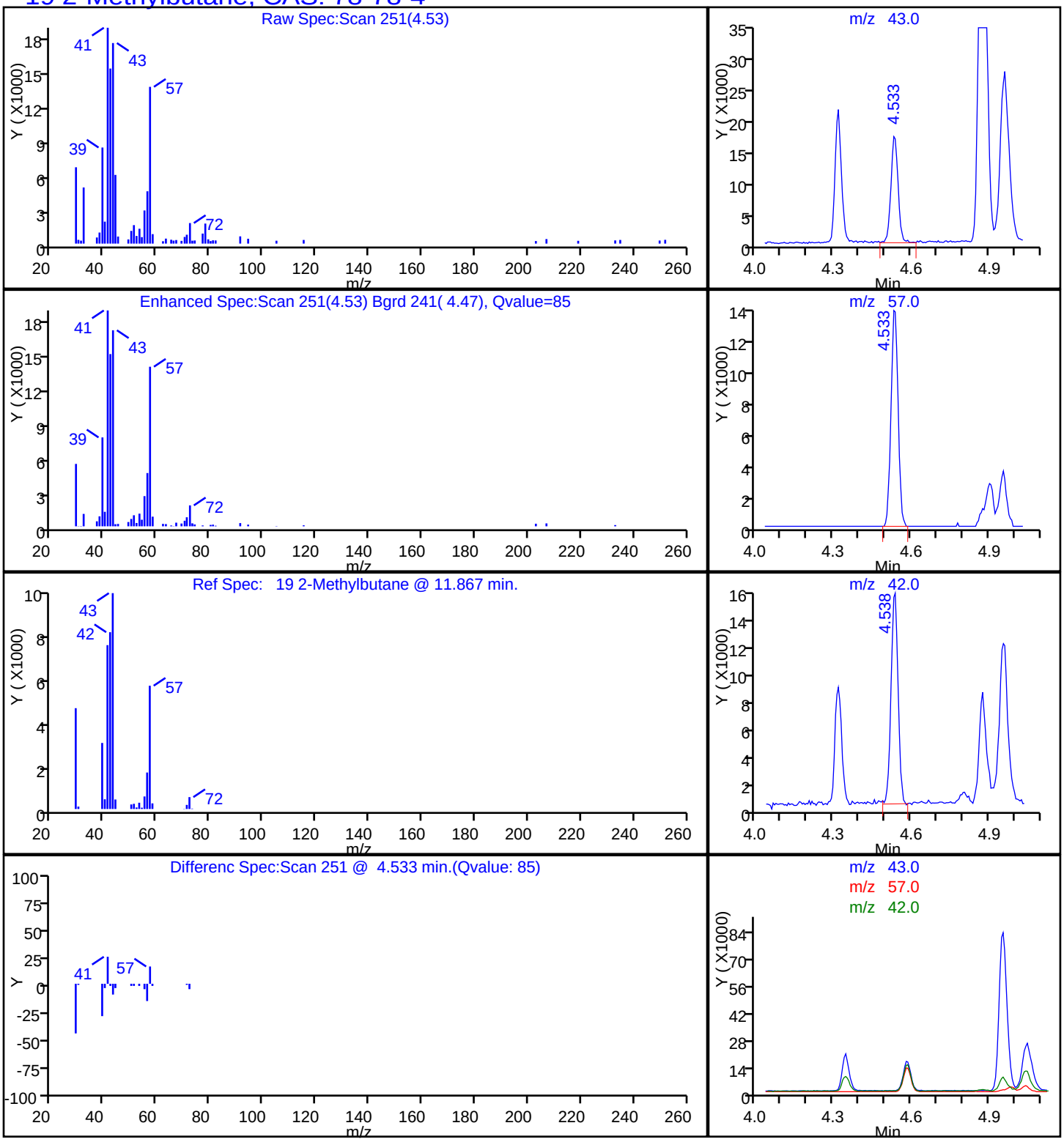
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14
Client ID:	PCV-IA5-B17		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



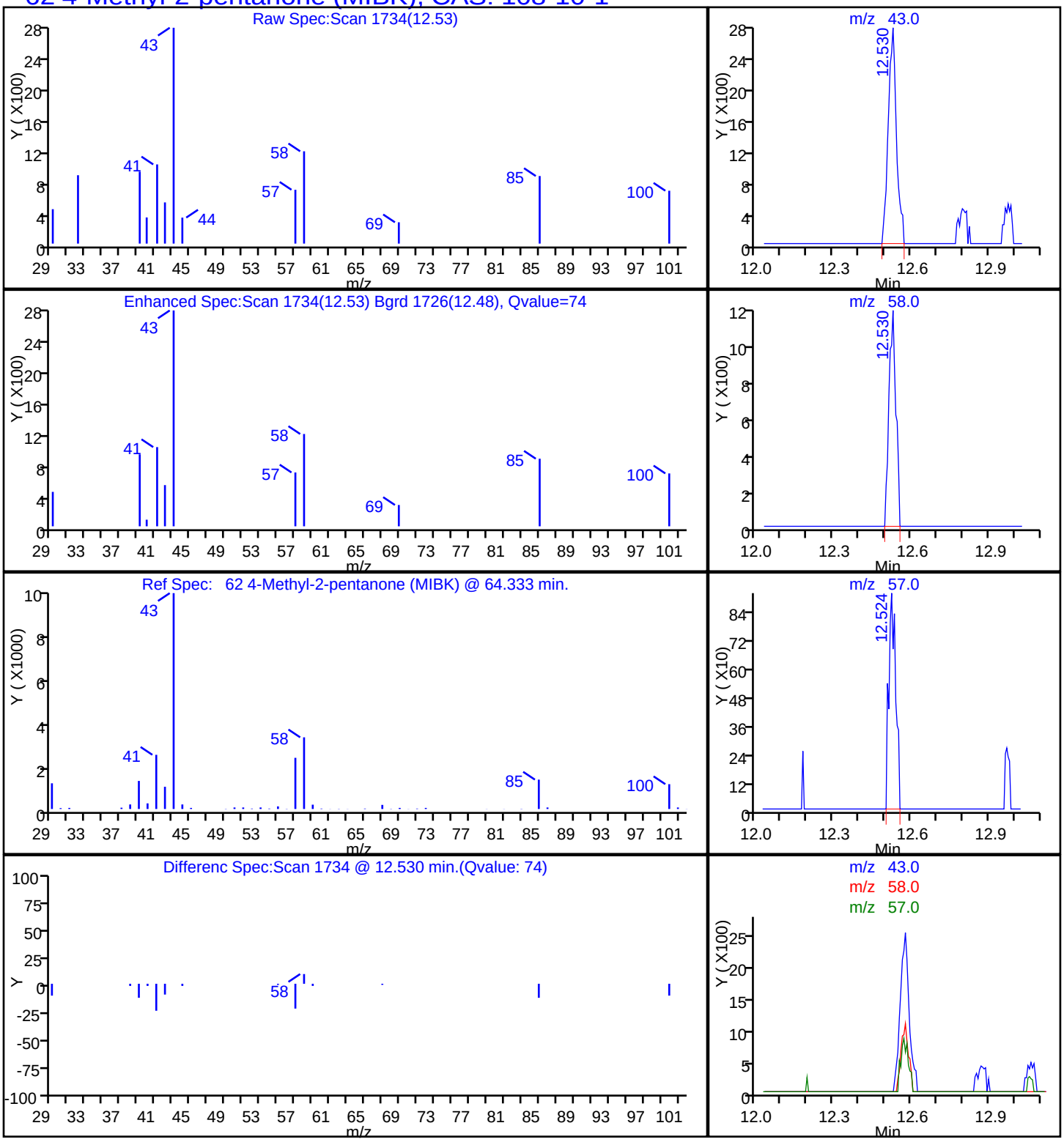
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

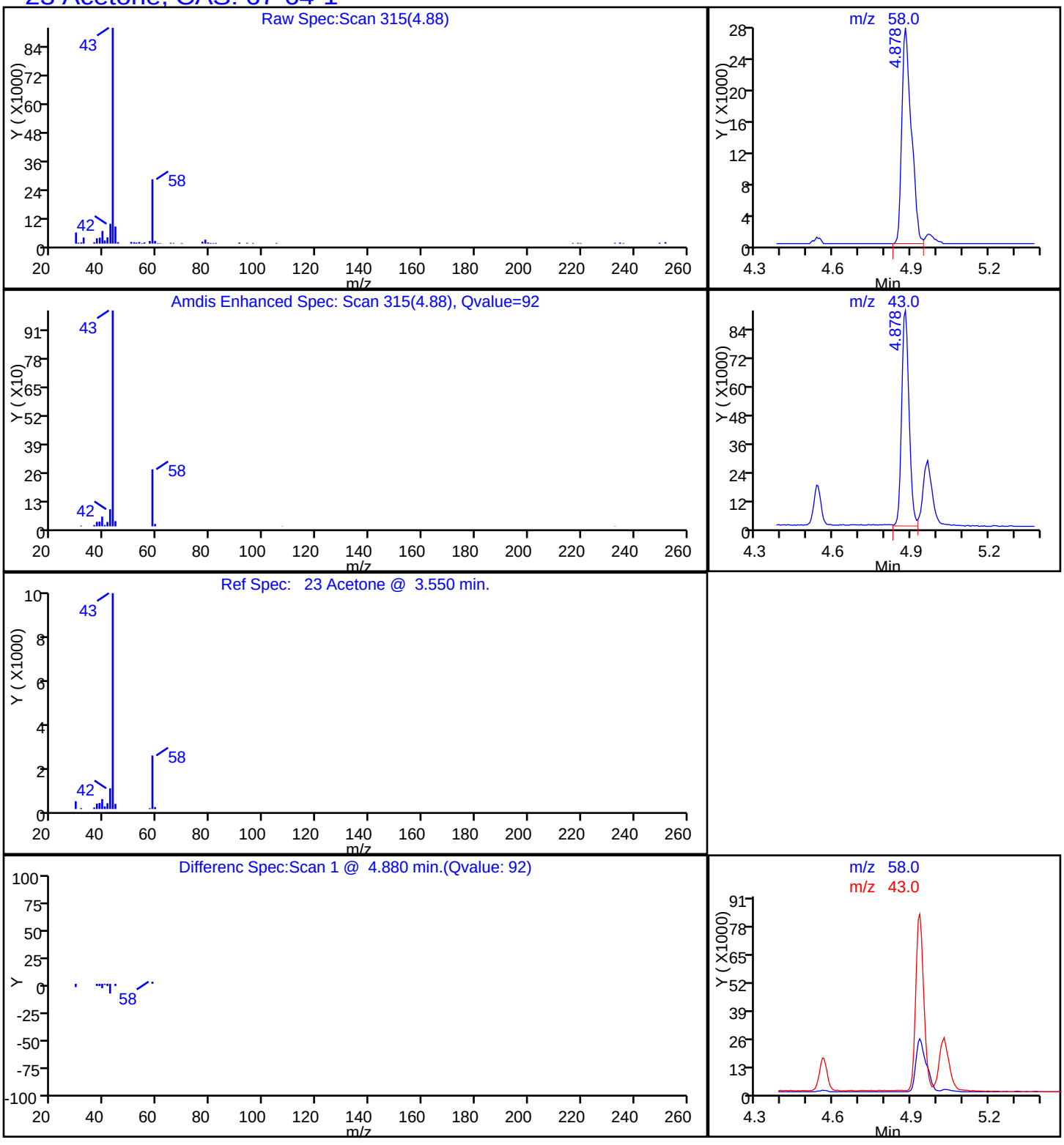


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

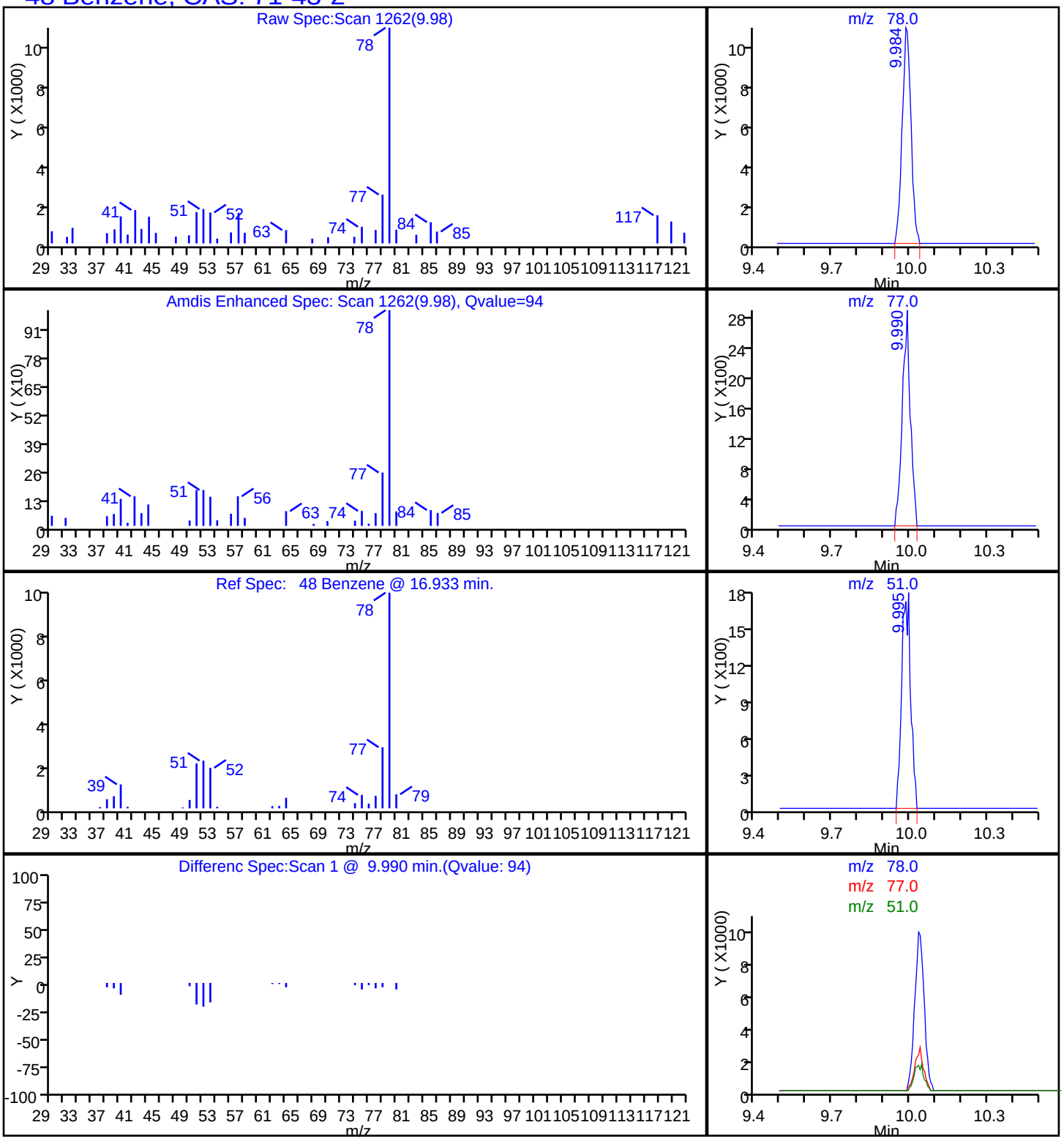


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

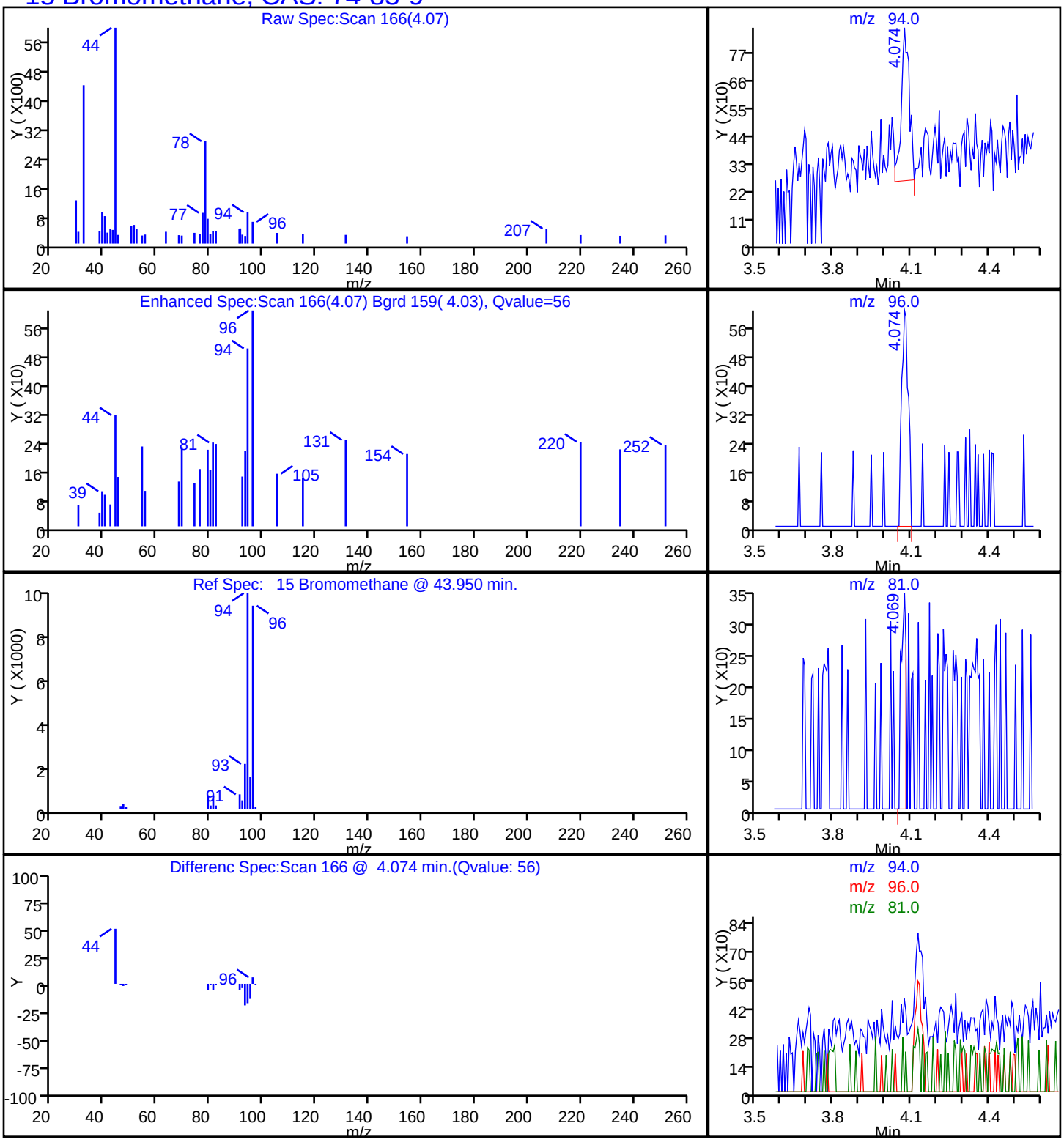
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

15 Bromomethane, CAS: 74-83-9



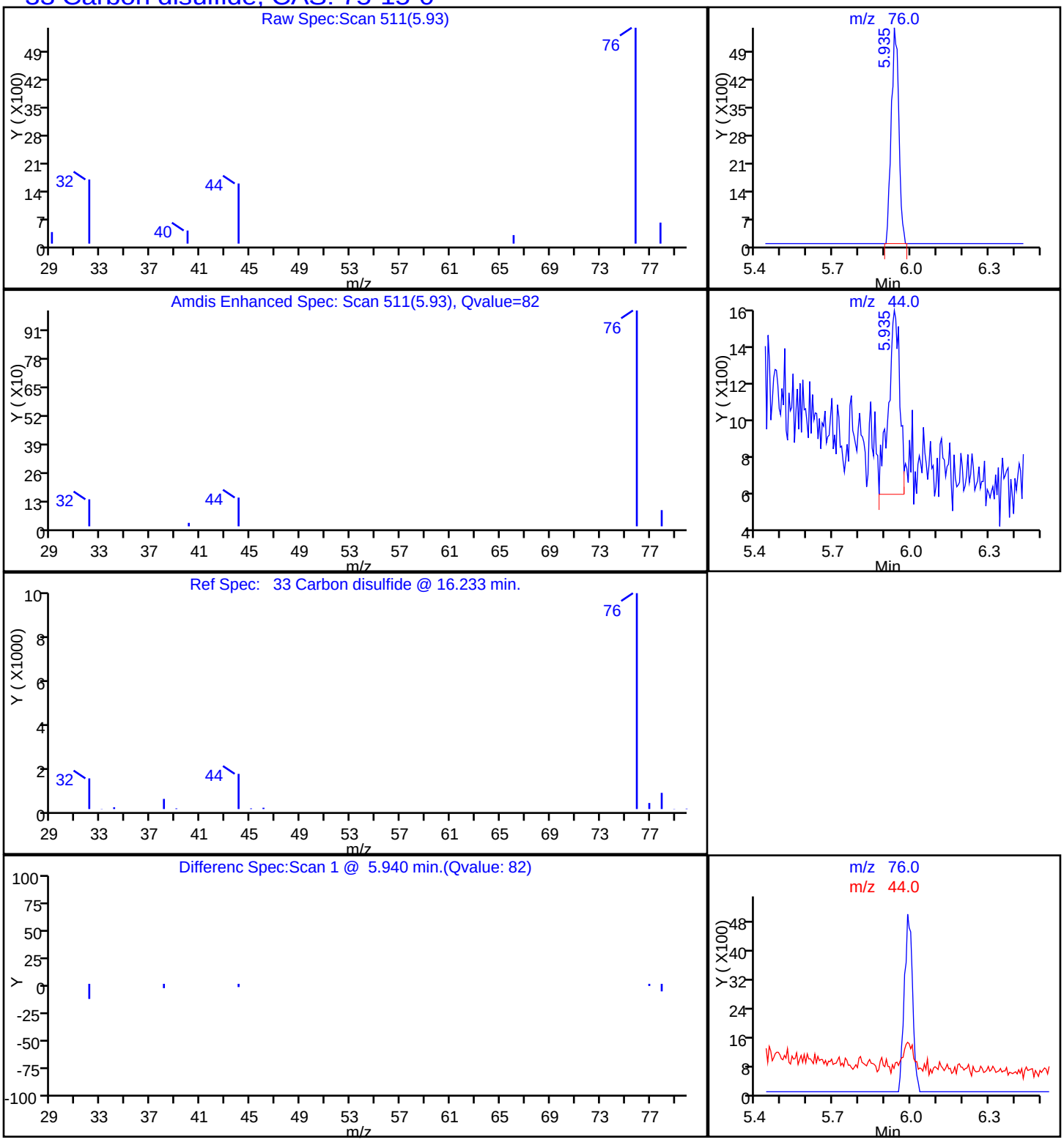
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

33 Carbon disulfide, CAS: 75-15-0



Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

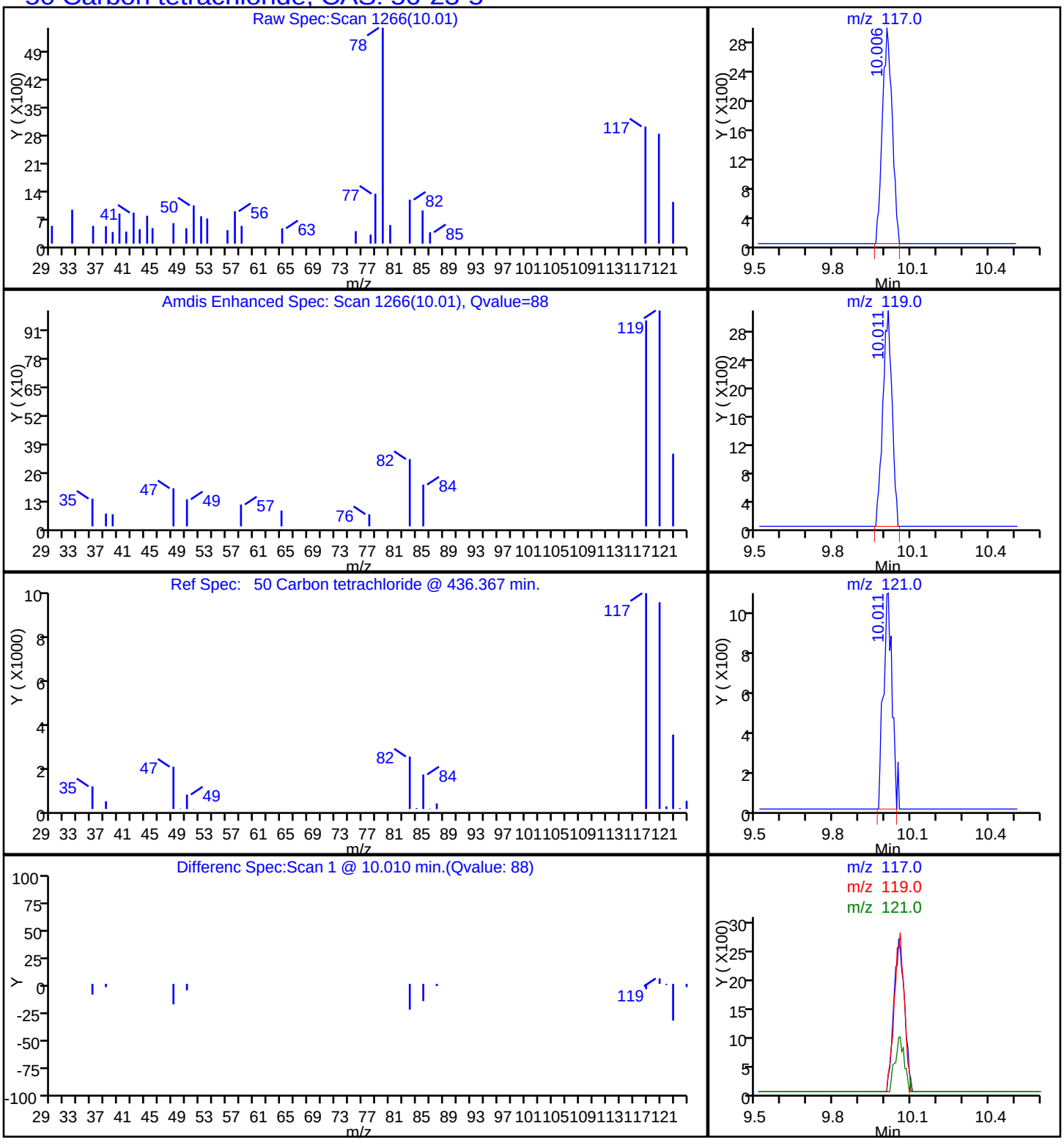
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



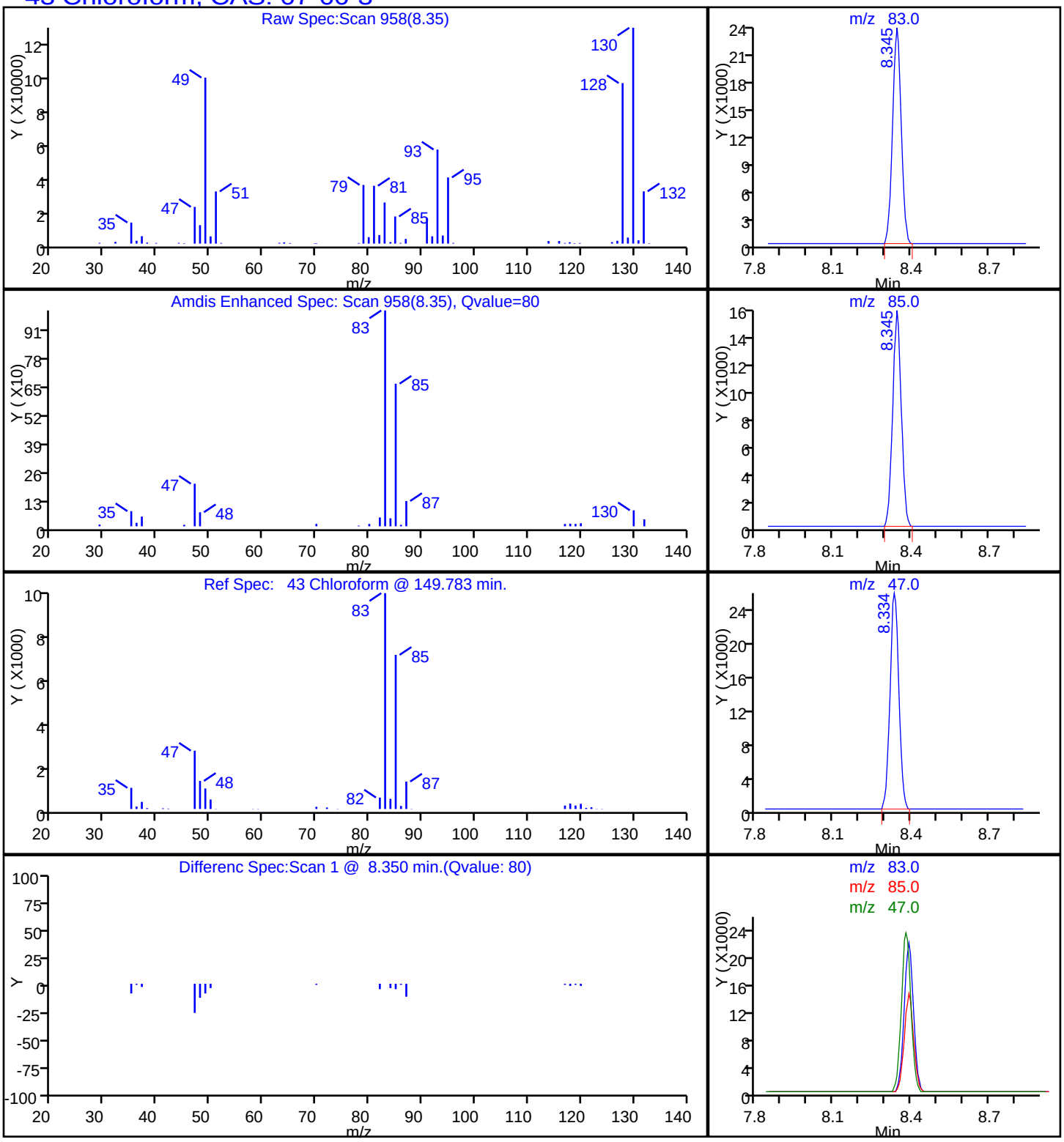
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

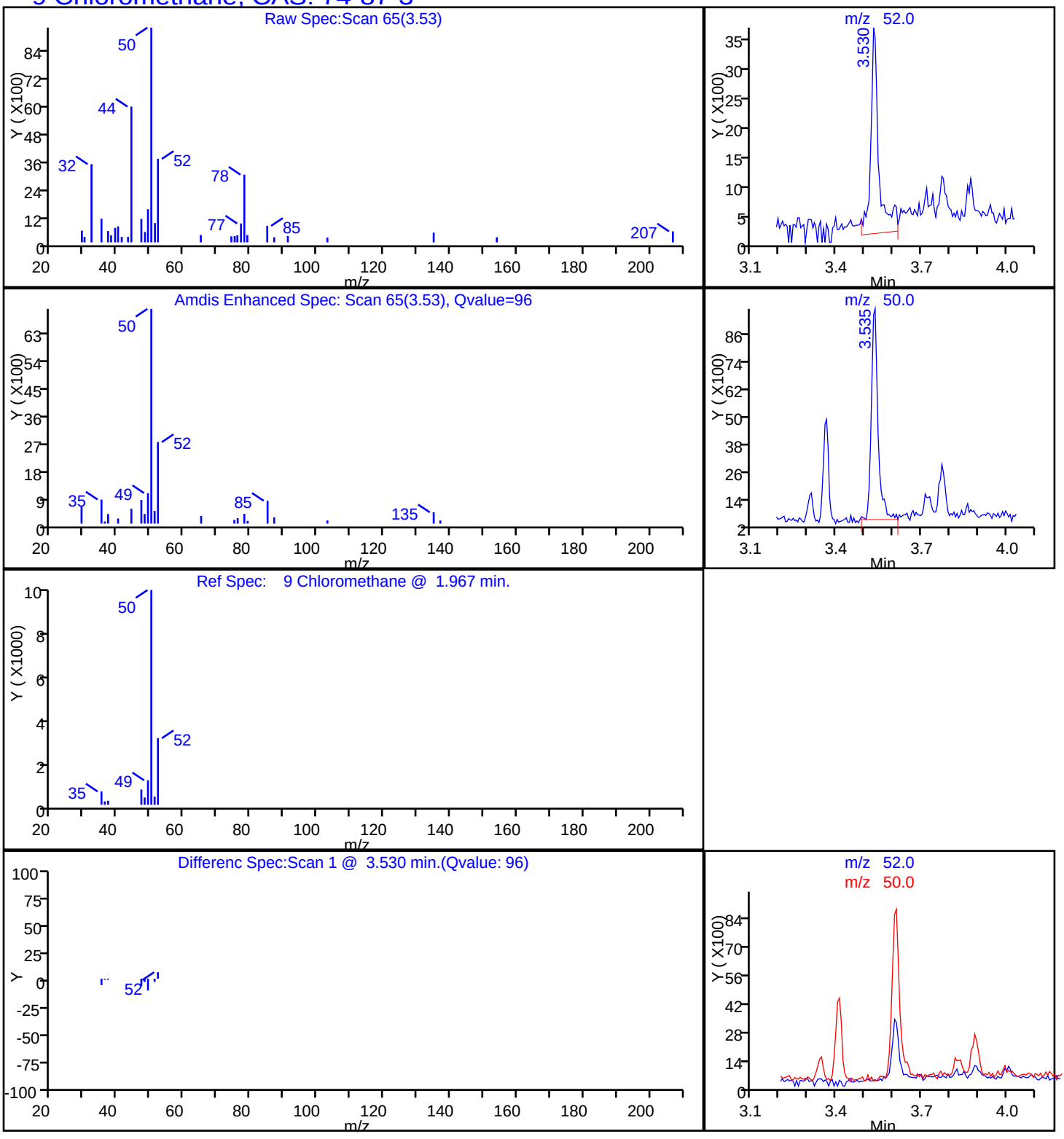
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

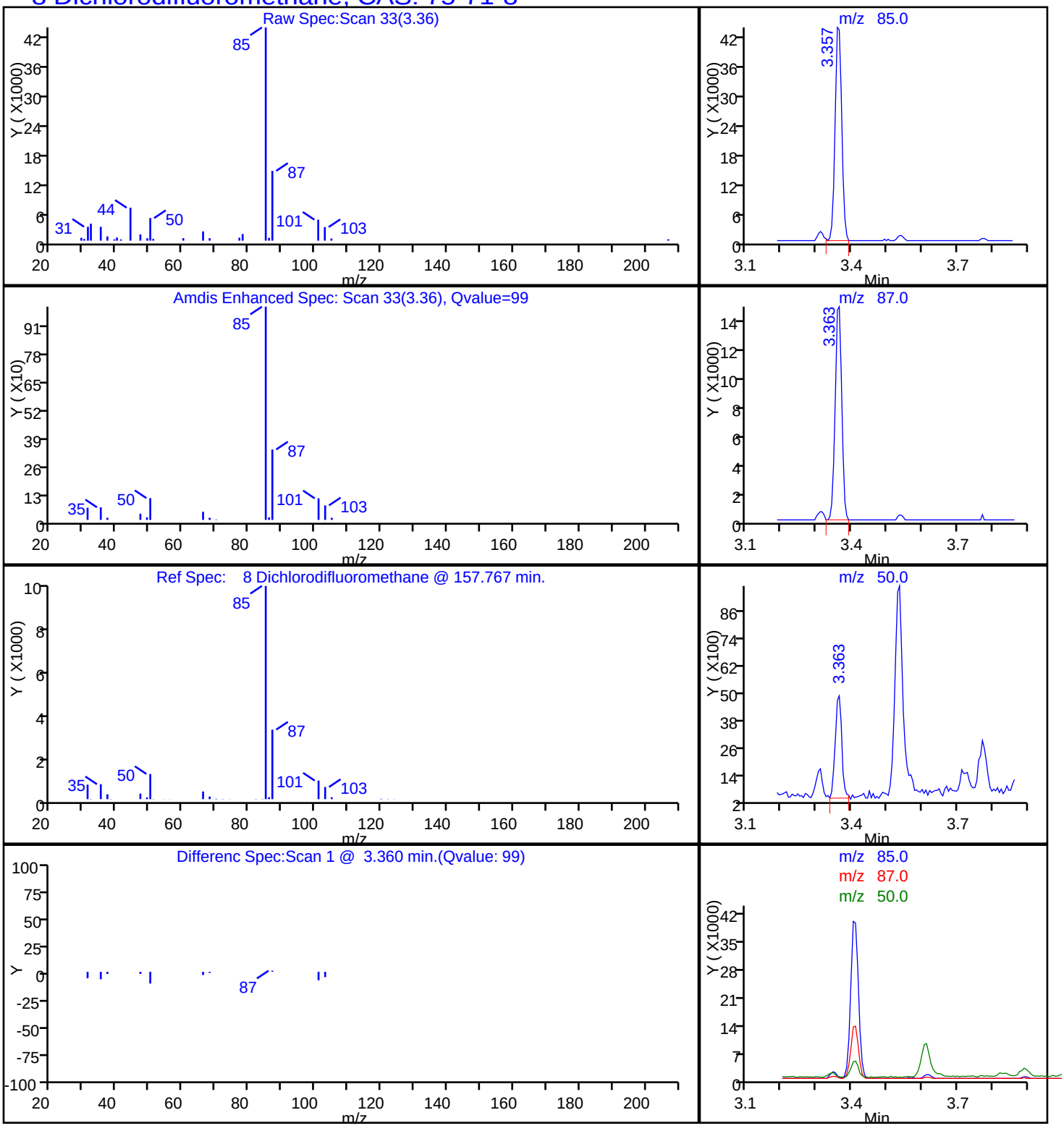
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

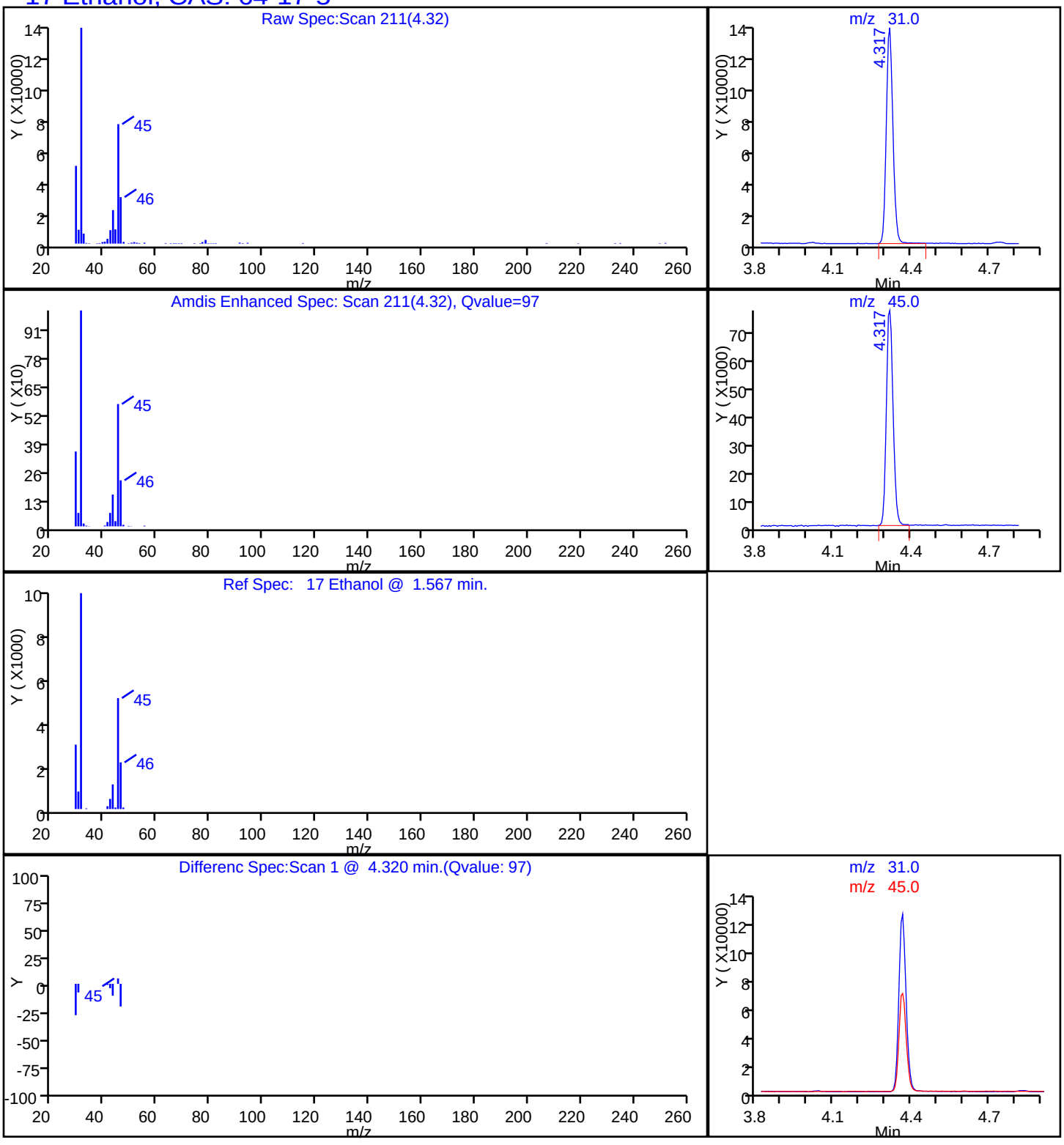


Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



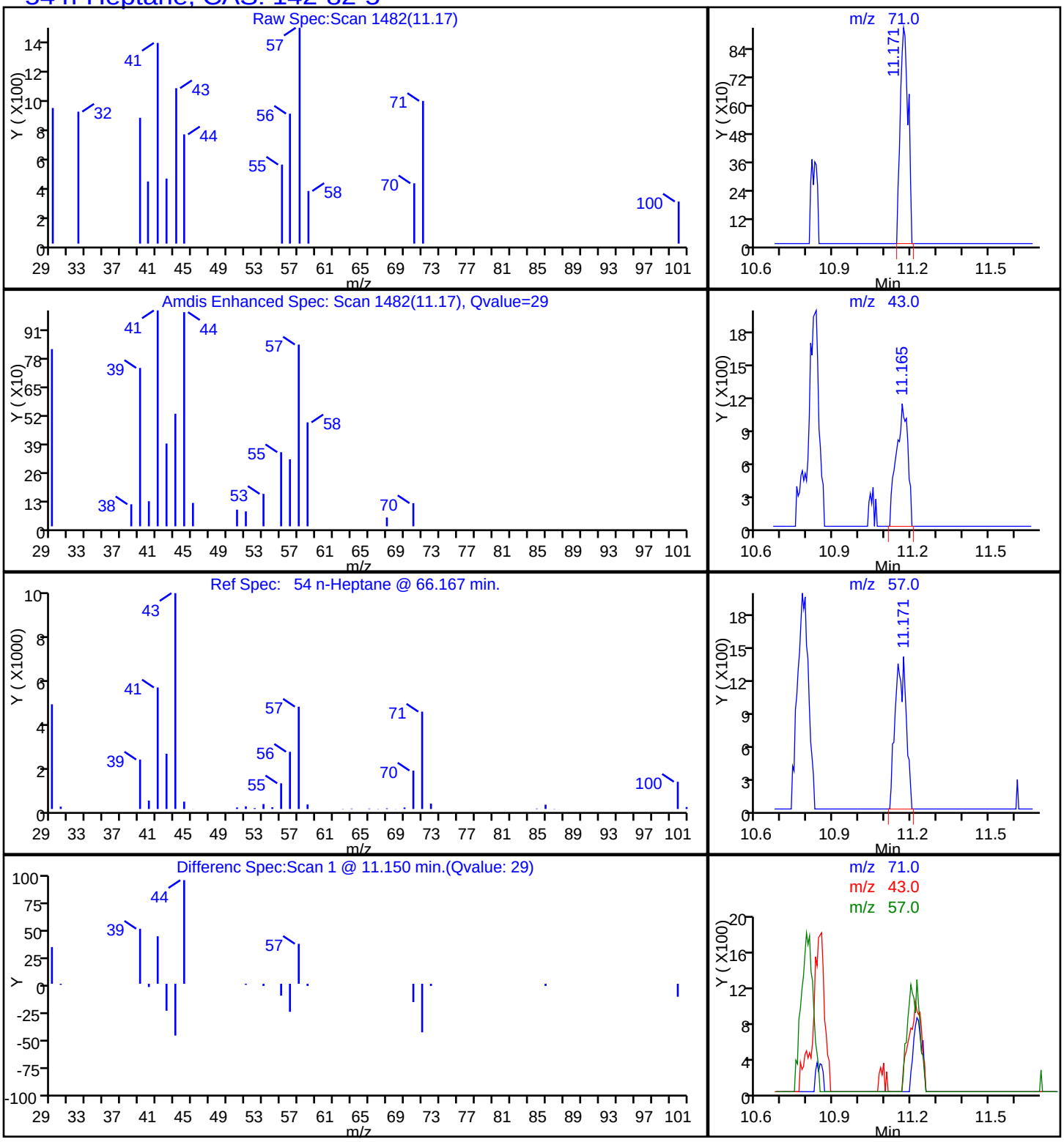
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5

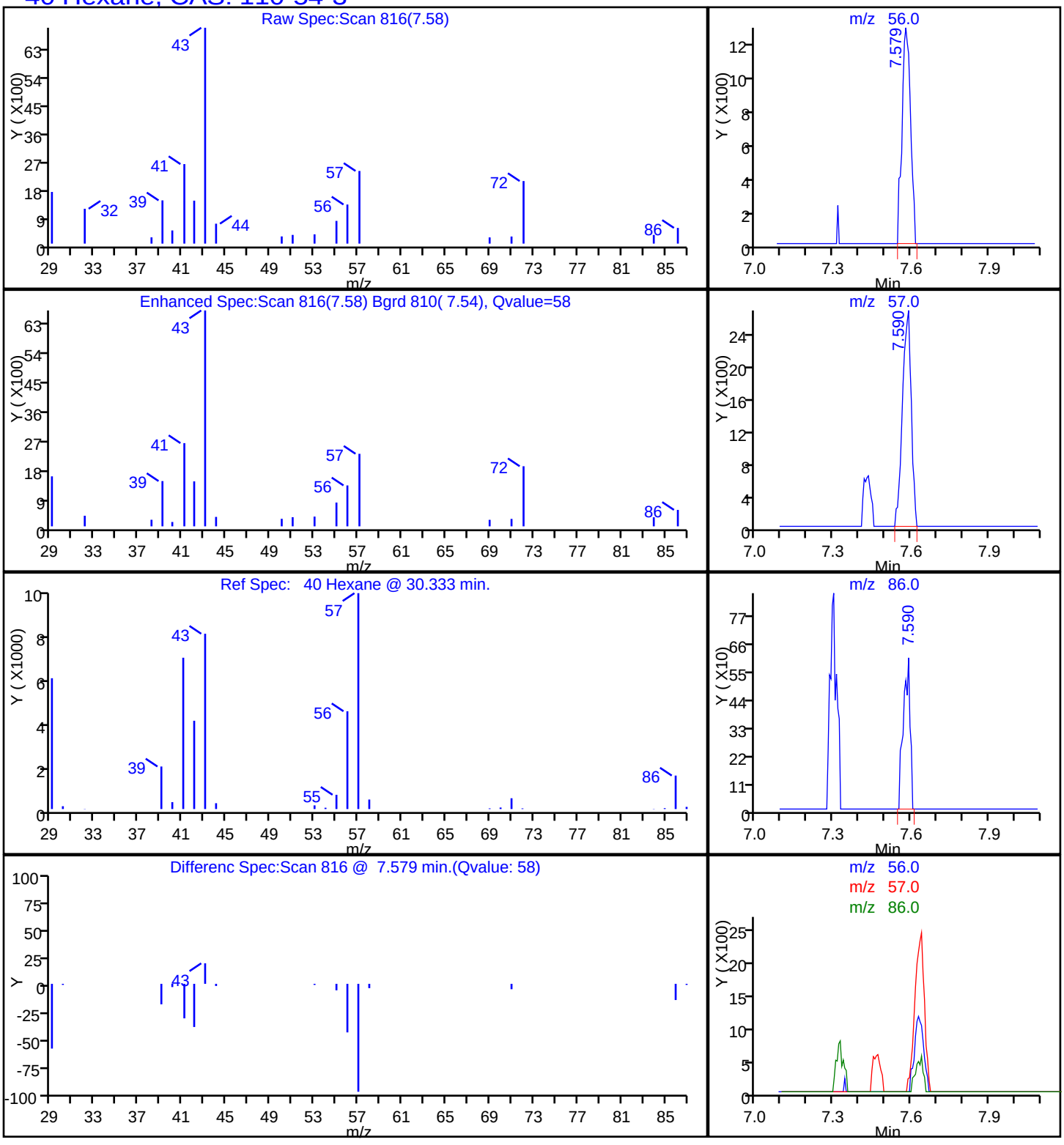


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

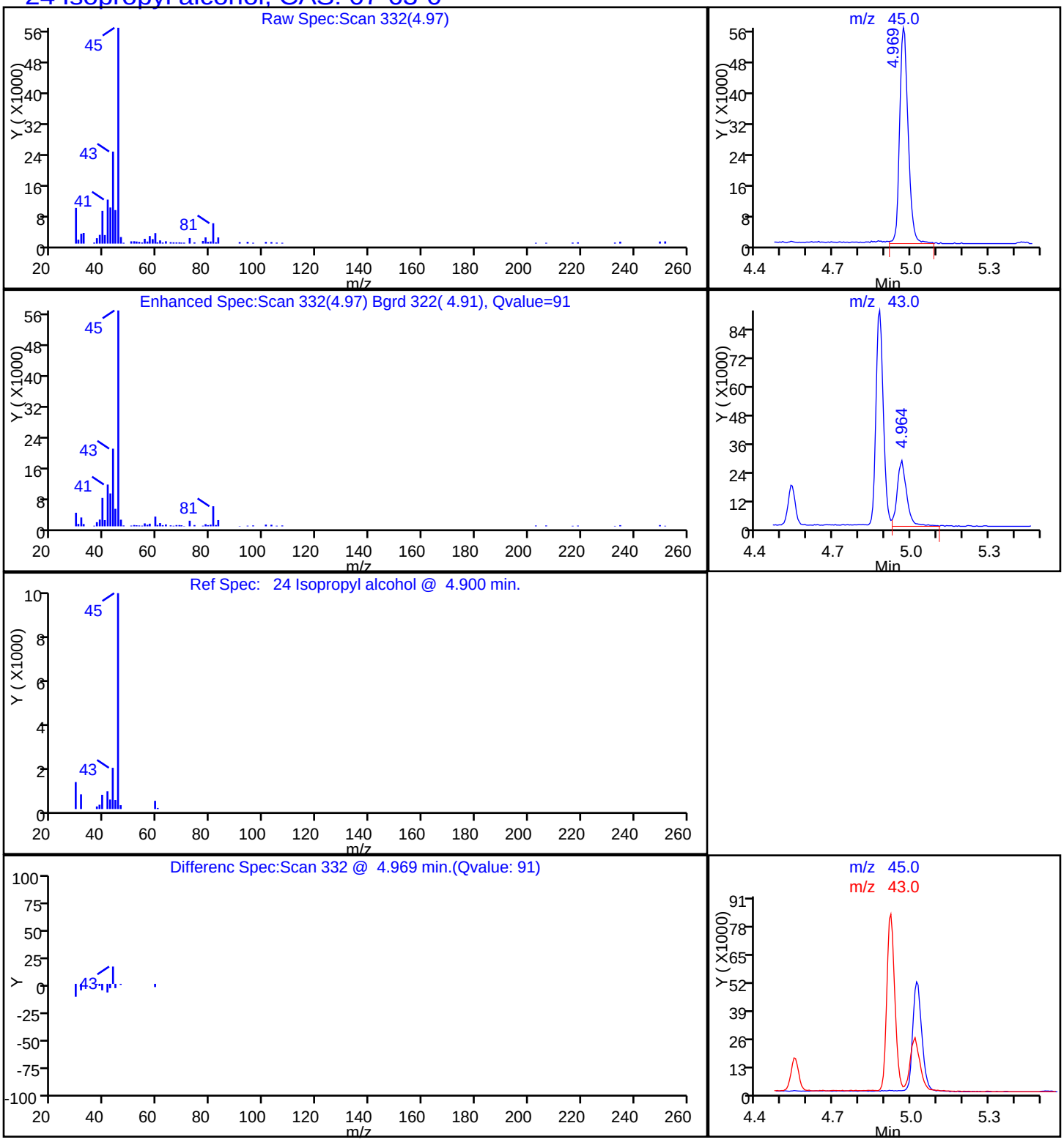


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D		
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14
Client ID:	PCV-IA5-B17		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



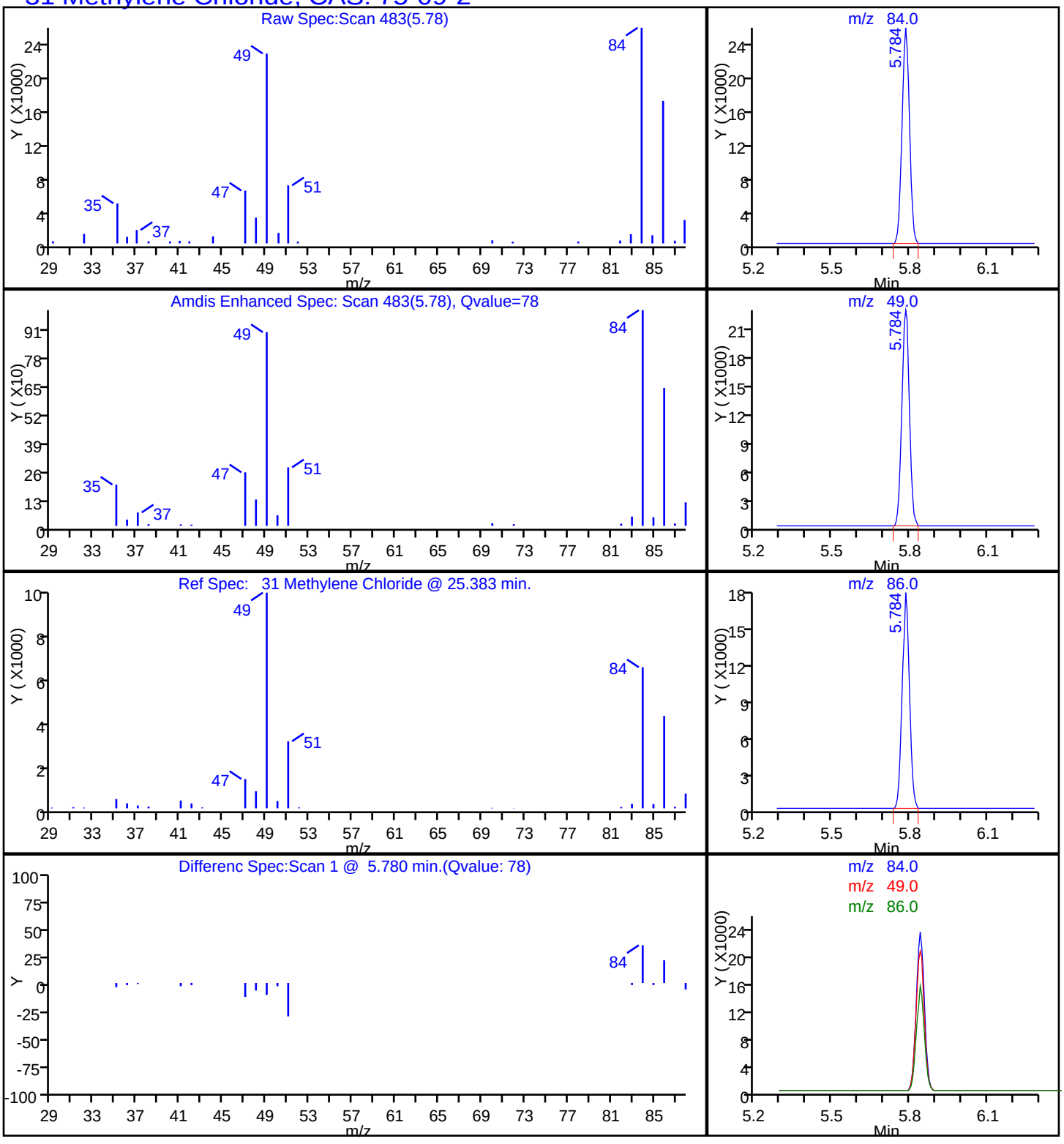
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

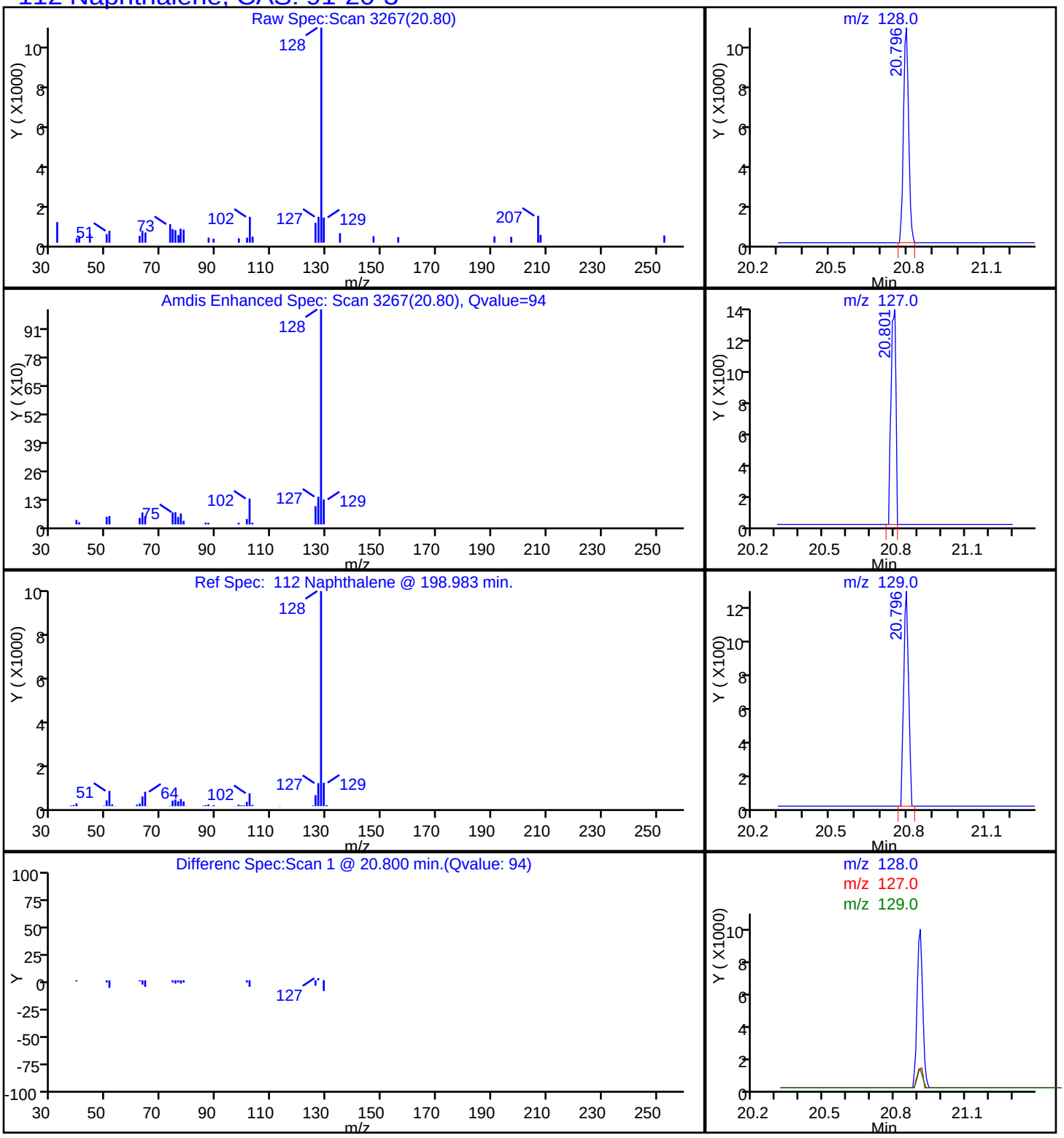


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

112 Naphthalene, CAS: 91-20-3



Report Date: 21-Mar-2014 09:39:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date: 21-Mar-2014 00:47:30 Instrument ID: ME

Lims ID: 140-1060-A-14 Lab Sample ID: 140-1060-14

Client ID: PCV-IA5-B17

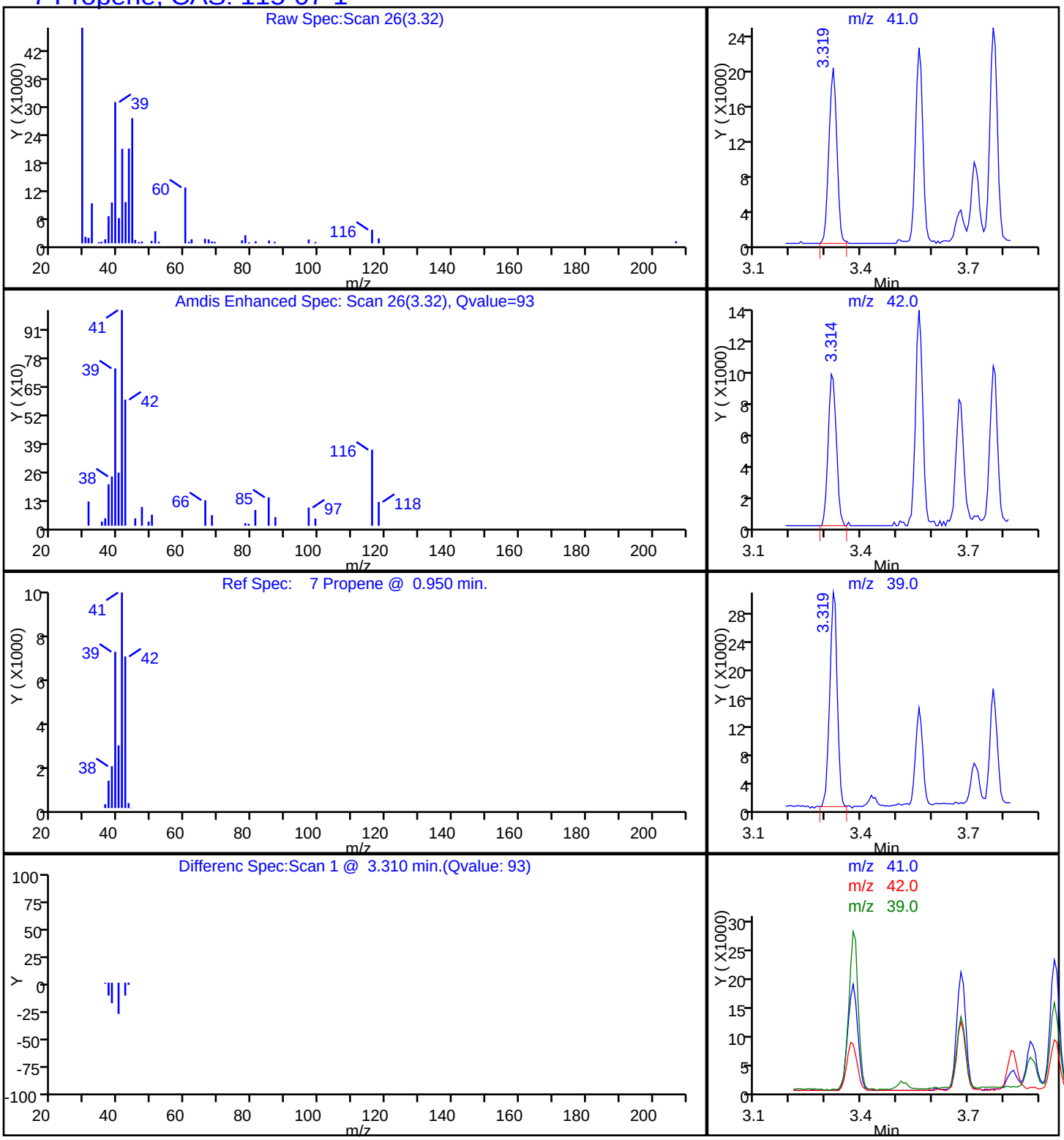
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



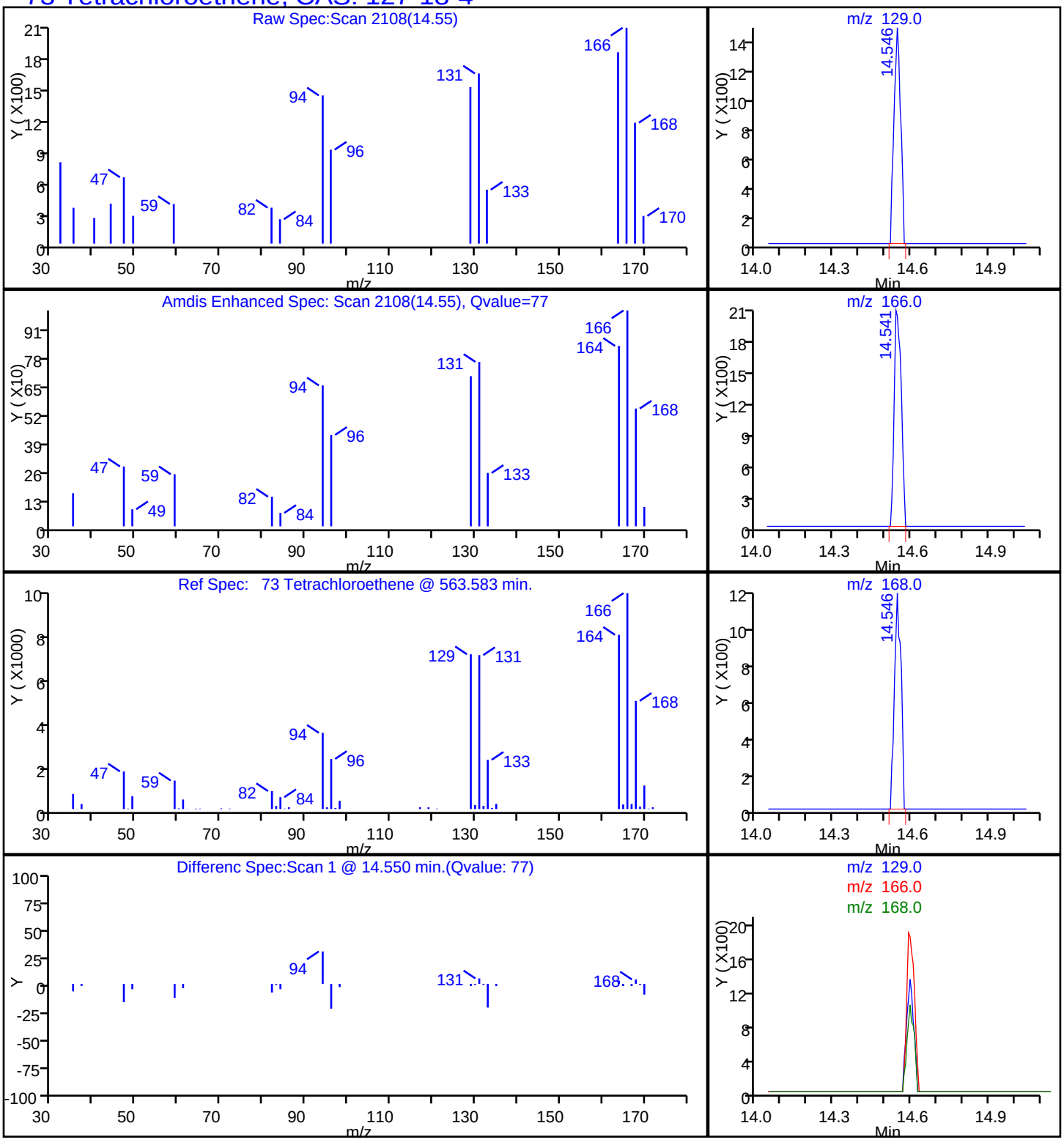
Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D

Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14
Client ID:	PCV-IA5-B17		
Operator ID:	7126	ALS Bottle#:	12 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

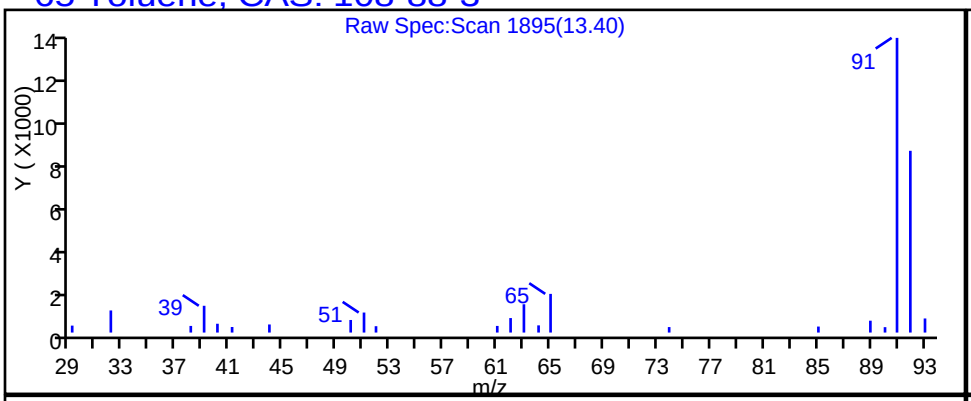
73 Tetrachloroethene, CAS: 127-18-4

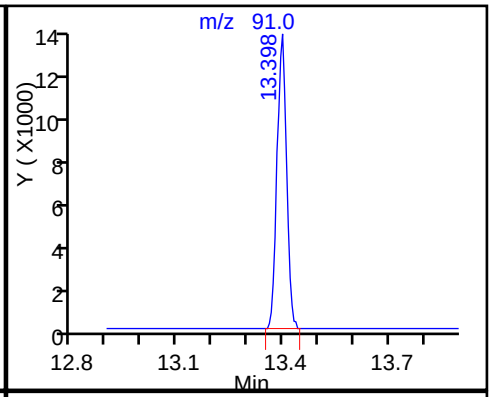


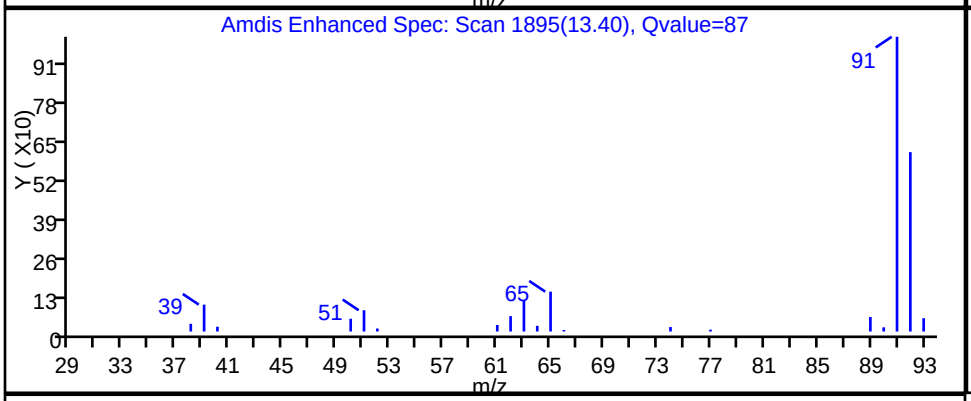
TestAmerica Knoxville

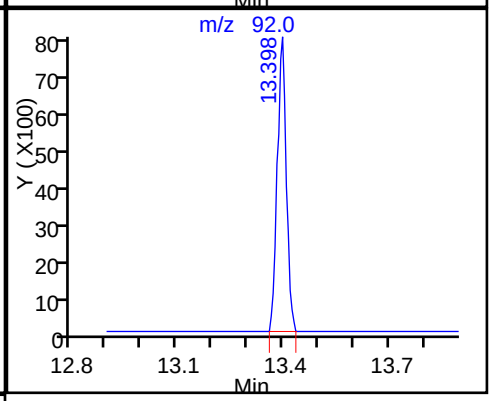
Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

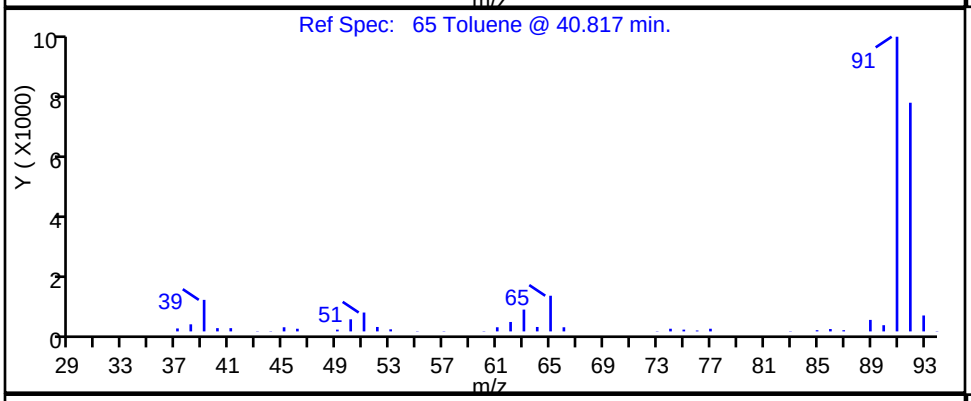
65 Toluene, CAS: 108-88-3

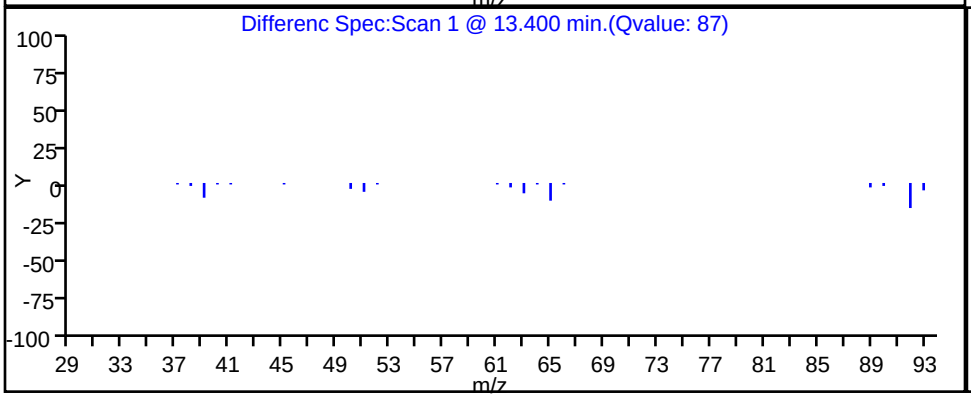


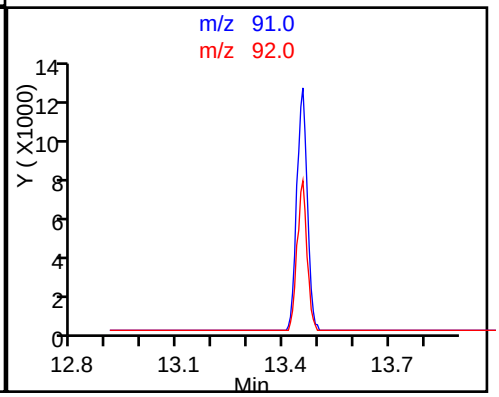










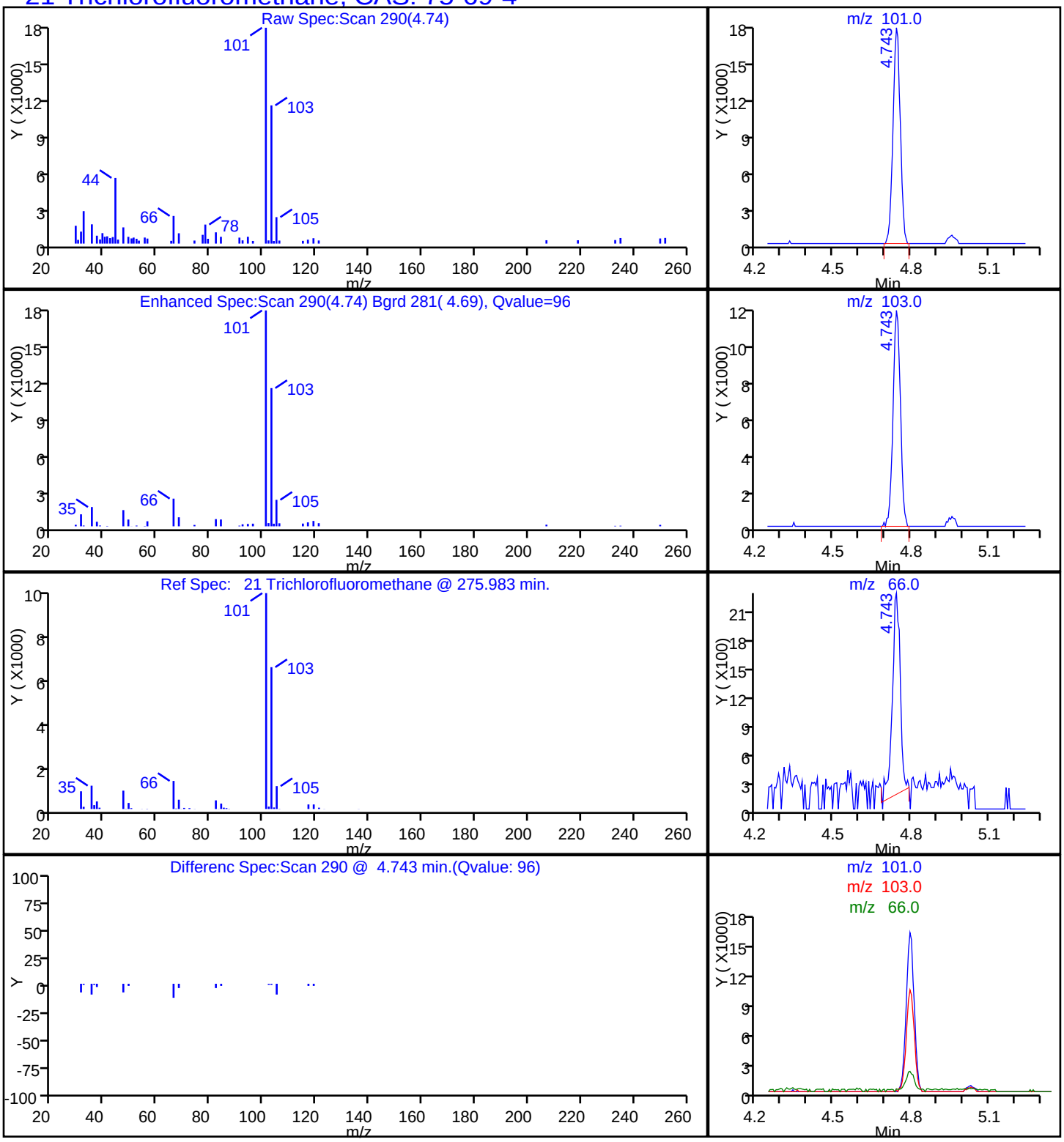


Report Date: 21-Mar-2014 09:39:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P112.D				
Injection Date:	21-Mar-2014 00:47:30	Instrument ID:	ME		
Lims ID:	140-1060-A-14	Lab Sample ID:	140-1060-14		
Client ID:	PCV-IA5-B17				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.074	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.074	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.18	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.17	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.81		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.045	J	0.50	0.045
67-64-1	Acetone	58.08	4.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.080	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.071	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.55		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.053	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*230*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	2.2		0.20	0.068
142-82-5	Heptane	100.21	0.073	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	1.2		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	12		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	3.3		0.20	0.061
115-07-1	Propene	42.08	1.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.047	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	3.3		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.57	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.41	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.81	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.19	J	2.0	0.18
67-64-1	Acetone	58.08	11	J	12	3.3
71-43-2	Benzene	78.11	0.71		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.50	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.35	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.18	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*430*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	9.6		0.87	0.30
142-82-5	Heptane	100.21	0.30	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.39	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	4.3		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	52		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	14		0.87	0.26
115-07-1	Propene	42.08	2.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.32	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	12		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 Lab Sample ID: 140-1060-15

Matrix: Air Lab File ID: EC20P113.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D
Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15
Client ID: PCV-IA1-B9
Sample Type: Client
Inject. Date: 21-Mar-2014 01:33:30 ALS Bottle#: 13 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-15
Misc. Info.: E032014,TO155,,140-0000533-017
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:40:20 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:40:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	270020	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.578	-0.006	94	1229119	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1056109	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	873096	3.78	
7 Propene	41	3.320	3.314	0.006	85	37289	0.5490	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	58163	0.1947	
9 Chloromethane	52	3.535	3.530	0.005	98	5201	0.2181	
13 Butadiene	54	3.772	3.772	0.0	30	4689	0.0737	
17 Ethanol	31	4.333	4.317	0.016	96	2477593	91.7	E
19 2-Methylbutane	43	4.538	4.538	0.0	85	30737	0.3251	
21 Trichlorofluoromethane	101	4.749	4.748	0.001	94	34189	0.1141	
23 Acetone	58	4.873	4.883	-0.010	99	73939	1.81	
24 Isopropyl alcohol	45	4.986	4.970	0.016	99	247709	2.35	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	79	5491	0.0296	
31 Methylene Chloride	84	5.784	5.789	-0.005	74	38275	0.4960	
40 Hexane	56	7.585	7.585	0.0	65	3212	0.0447	
43 Chloroform	83	8.345	8.356	-0.011	18	6606	0.0286	
49 Cyclohexane	69	9.990	9.984	0.006	44	989	0.0213	
48 Benzene	78	9.985	9.995	-0.010	92	21944	0.0887	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	90	7596	0.0320	
53 Isooctane	57	10.783	10.788	-0.005	91	26631	0.0697	
54 n-Heptane	71	11.171	11.182	-0.011	61	2722	0.0291	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	74	2637	0.0181	
65 Toluene	91	13.398	13.398	0.0	93	369719	1.31	
73 Tetrachloroethene	129	14.546	14.552	-0.006	76	2257	0.0187	
76 Ethylbenzene	91	15.722	15.722	0.0	99	319907	0.8820	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	1355744	4.75	
82 o-Xylene	91	16.407	16.412	-0.005	98	411352	1.33	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	75	9656	0.0298	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

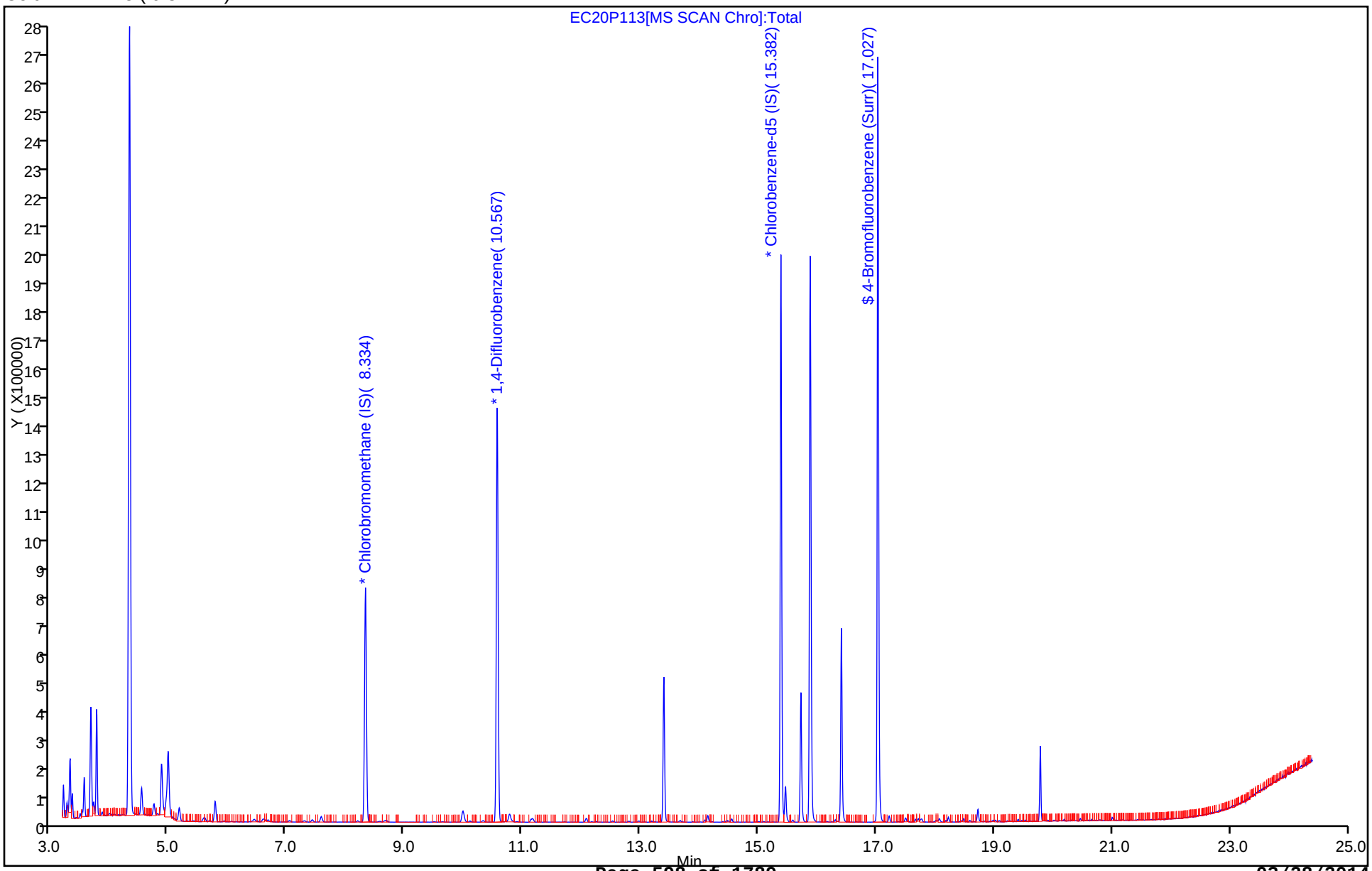
Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15	Worklist Smp#:	17
Client ID:	PCV-IA1-B9				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

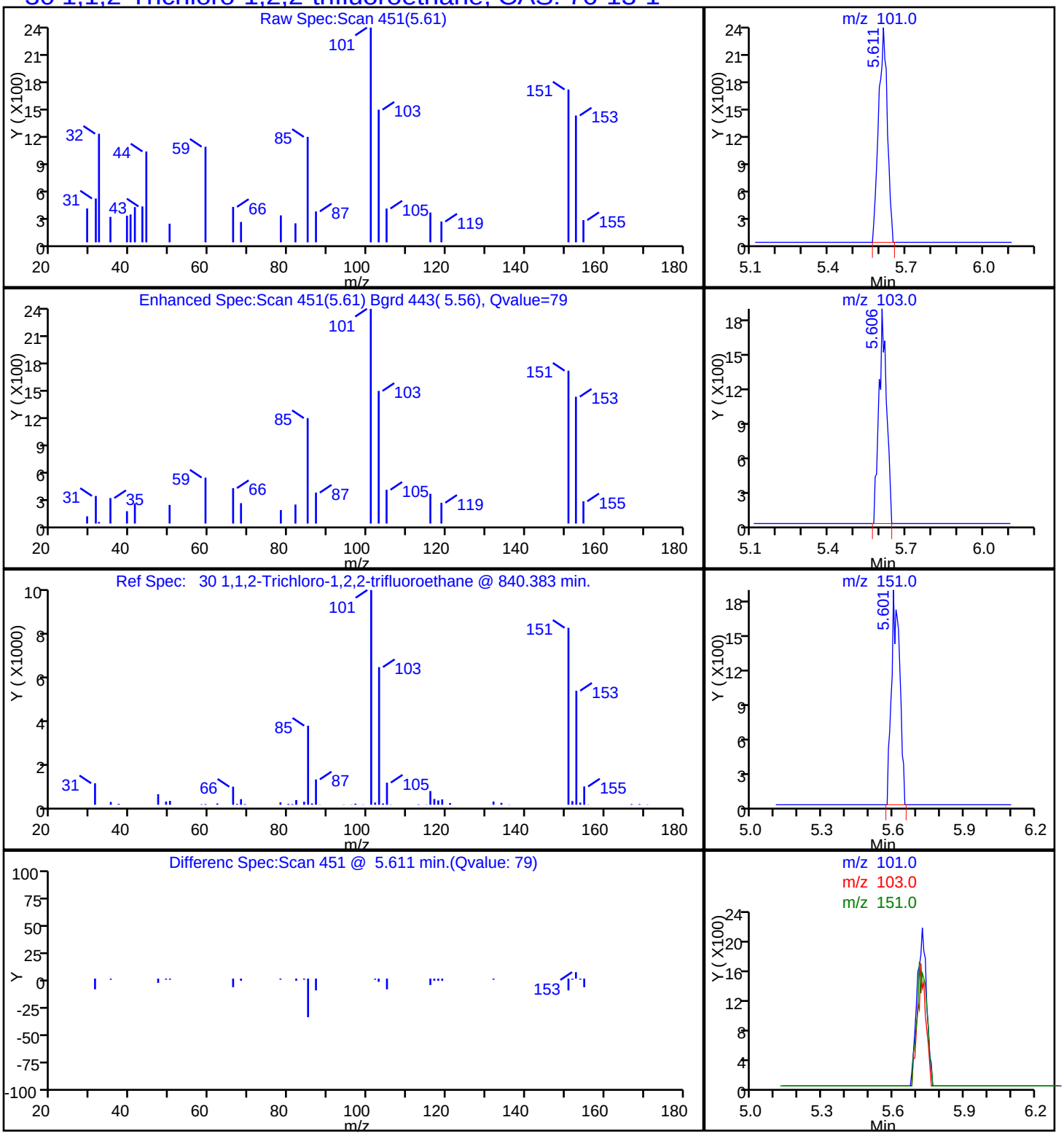
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

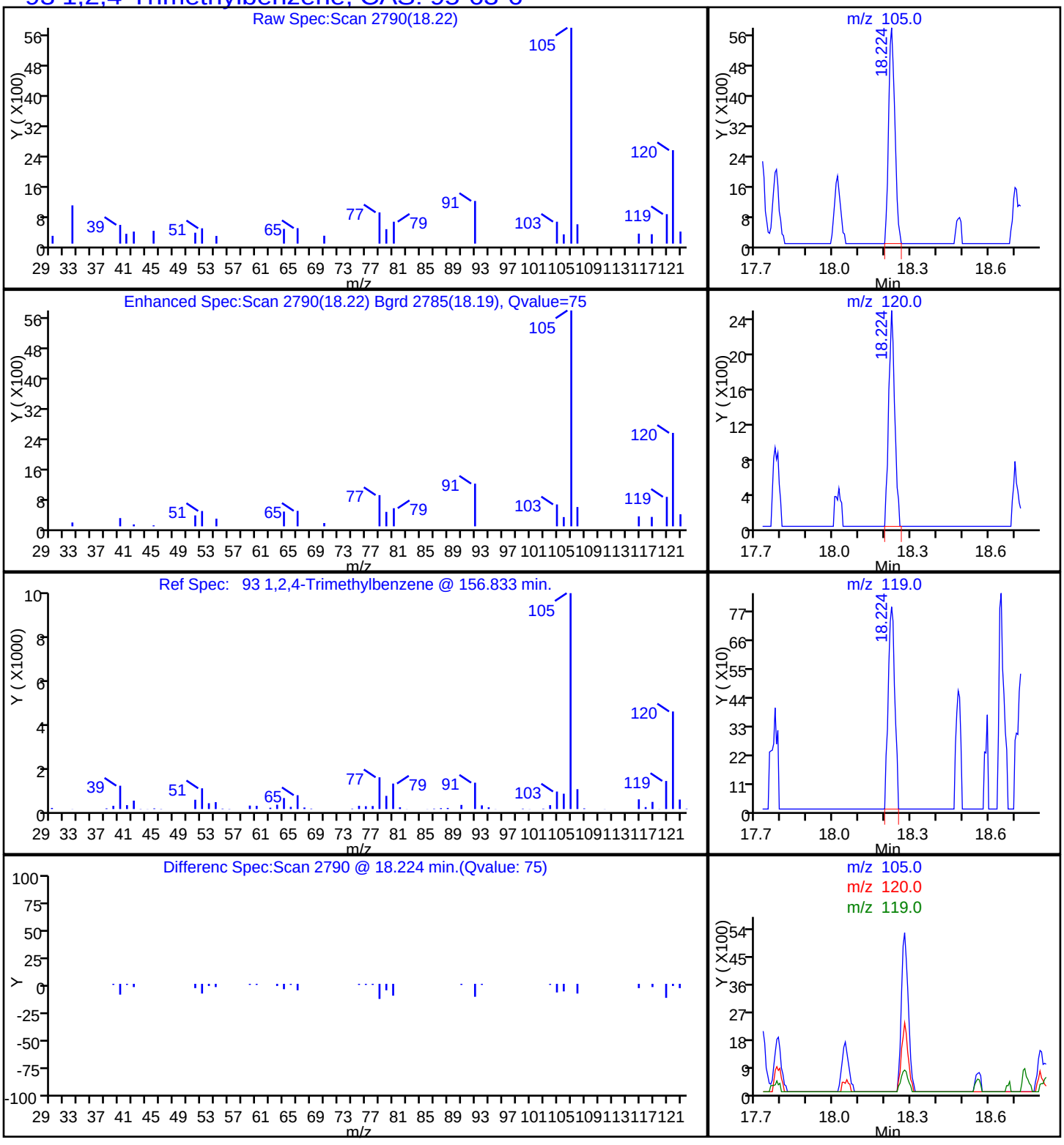


Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

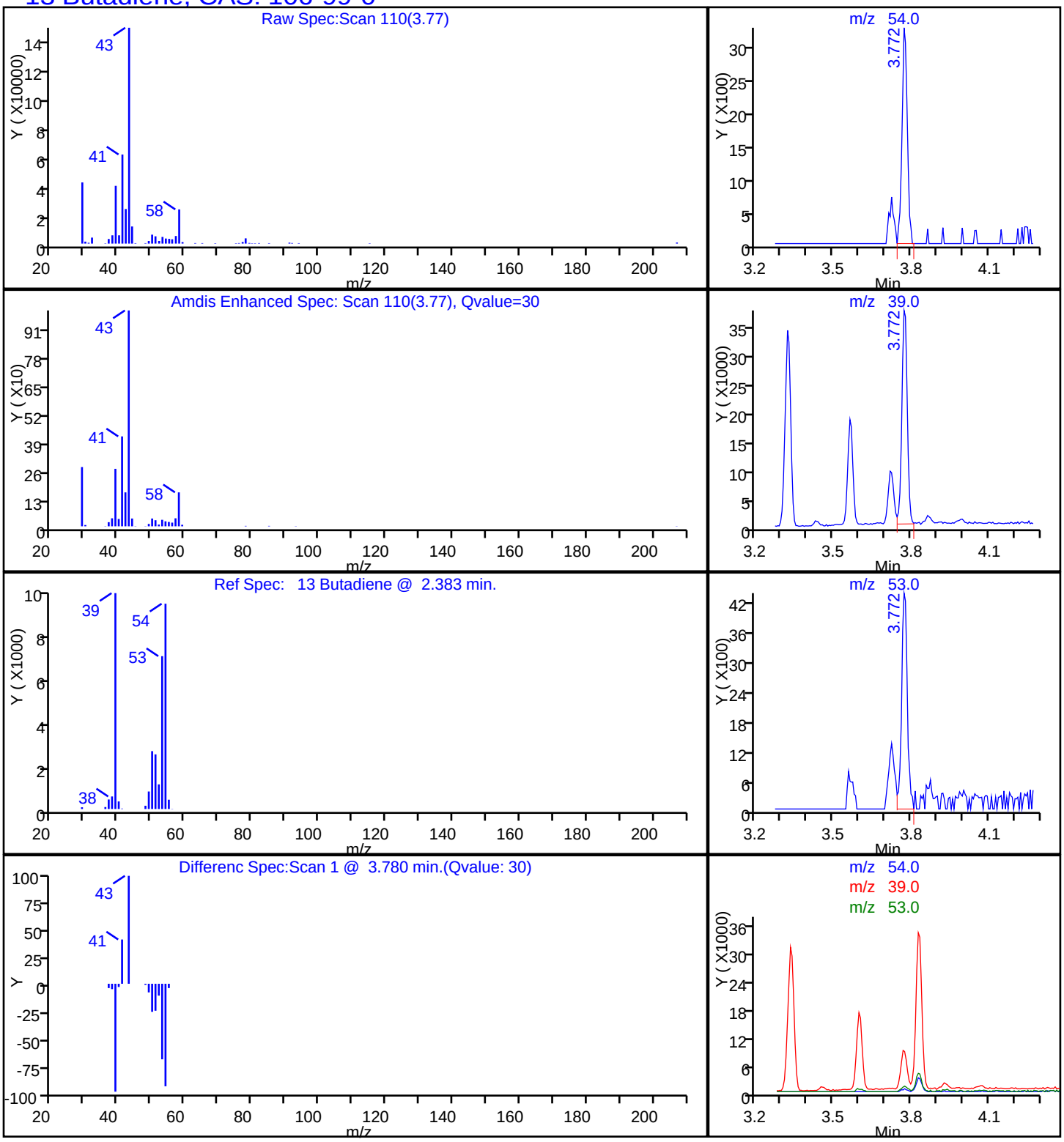
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

13 Butadiene, CAS: 106-99-0



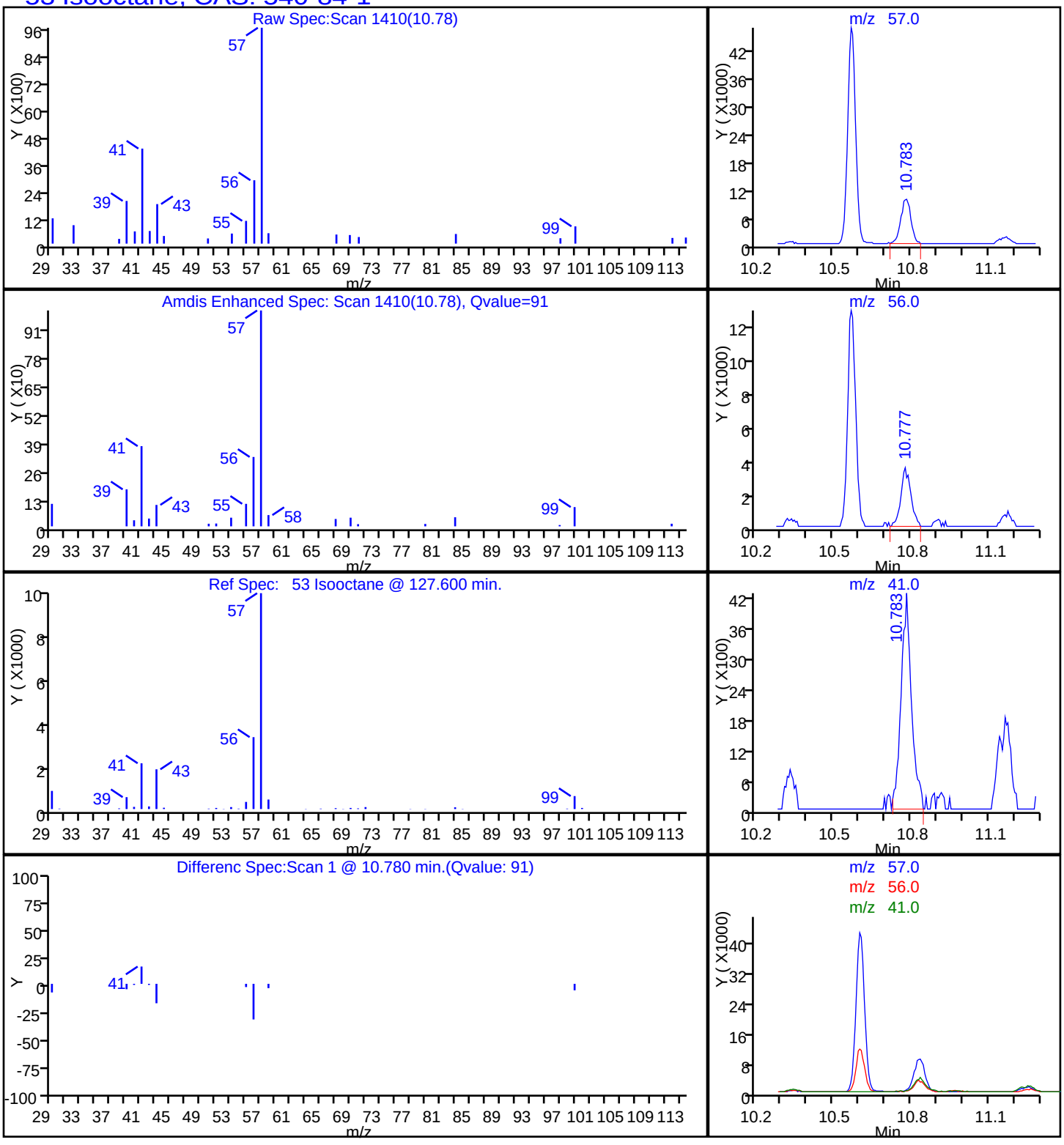
Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15
Client ID:	PCV-IA1-B9		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

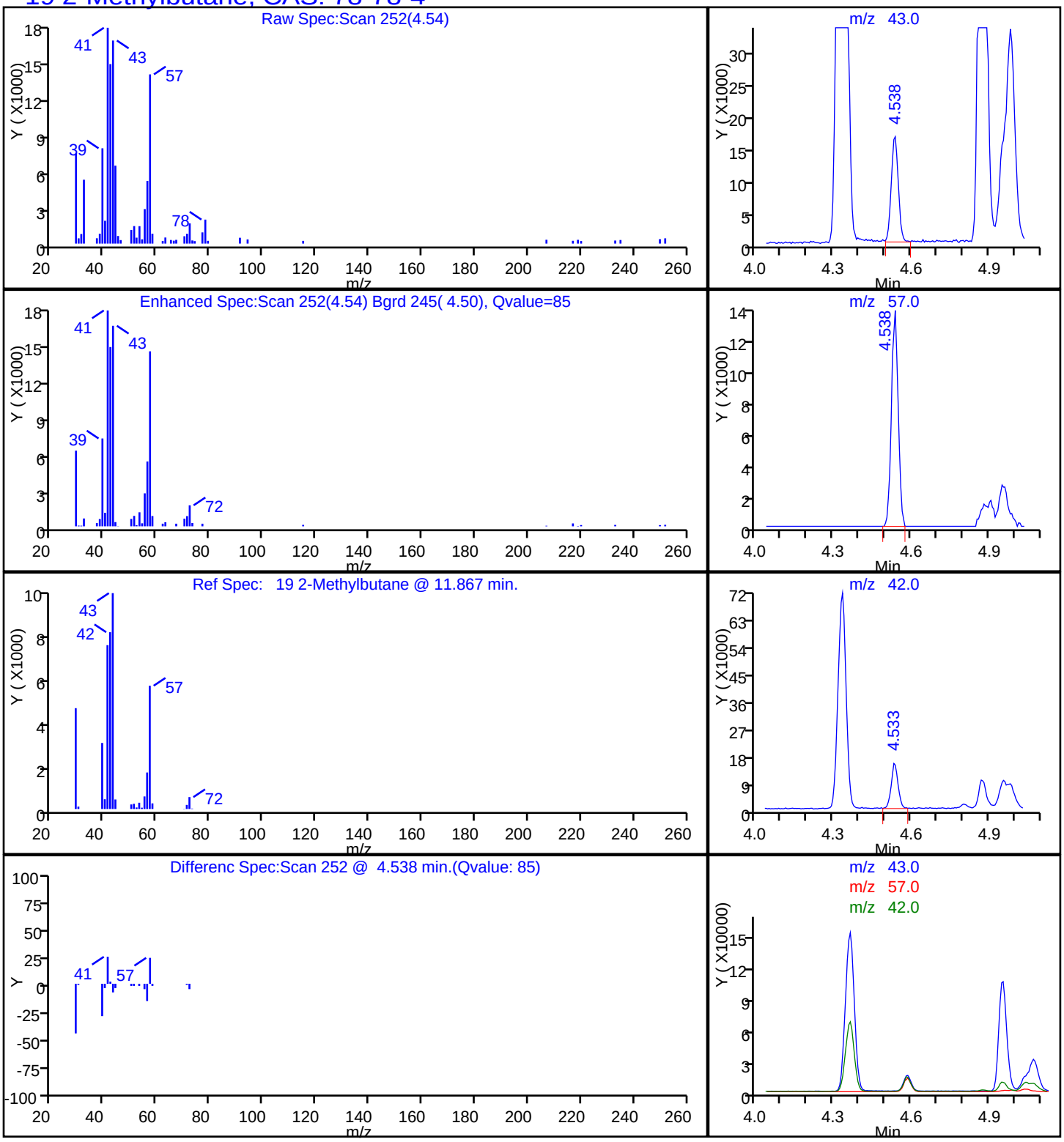
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



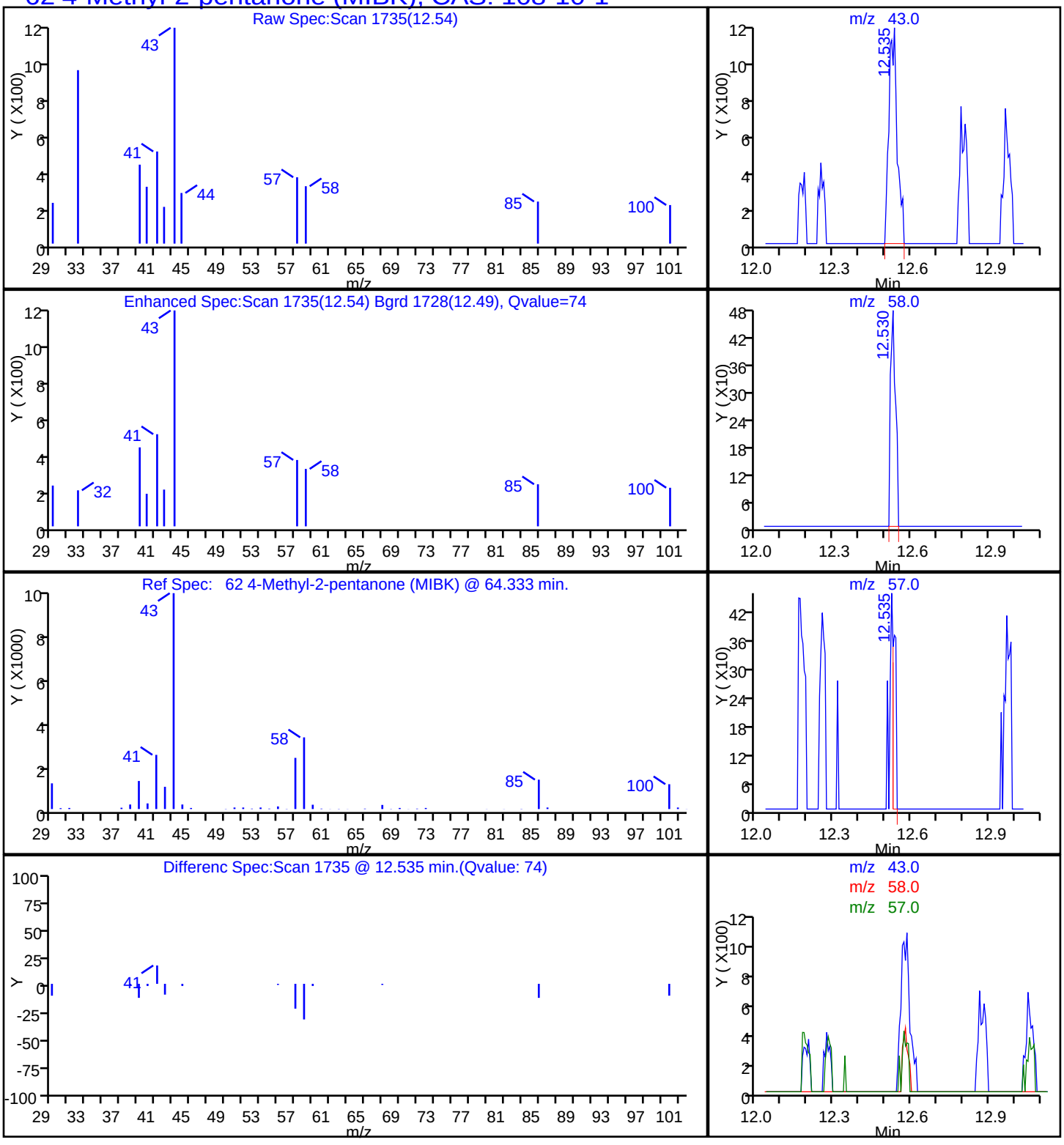
Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

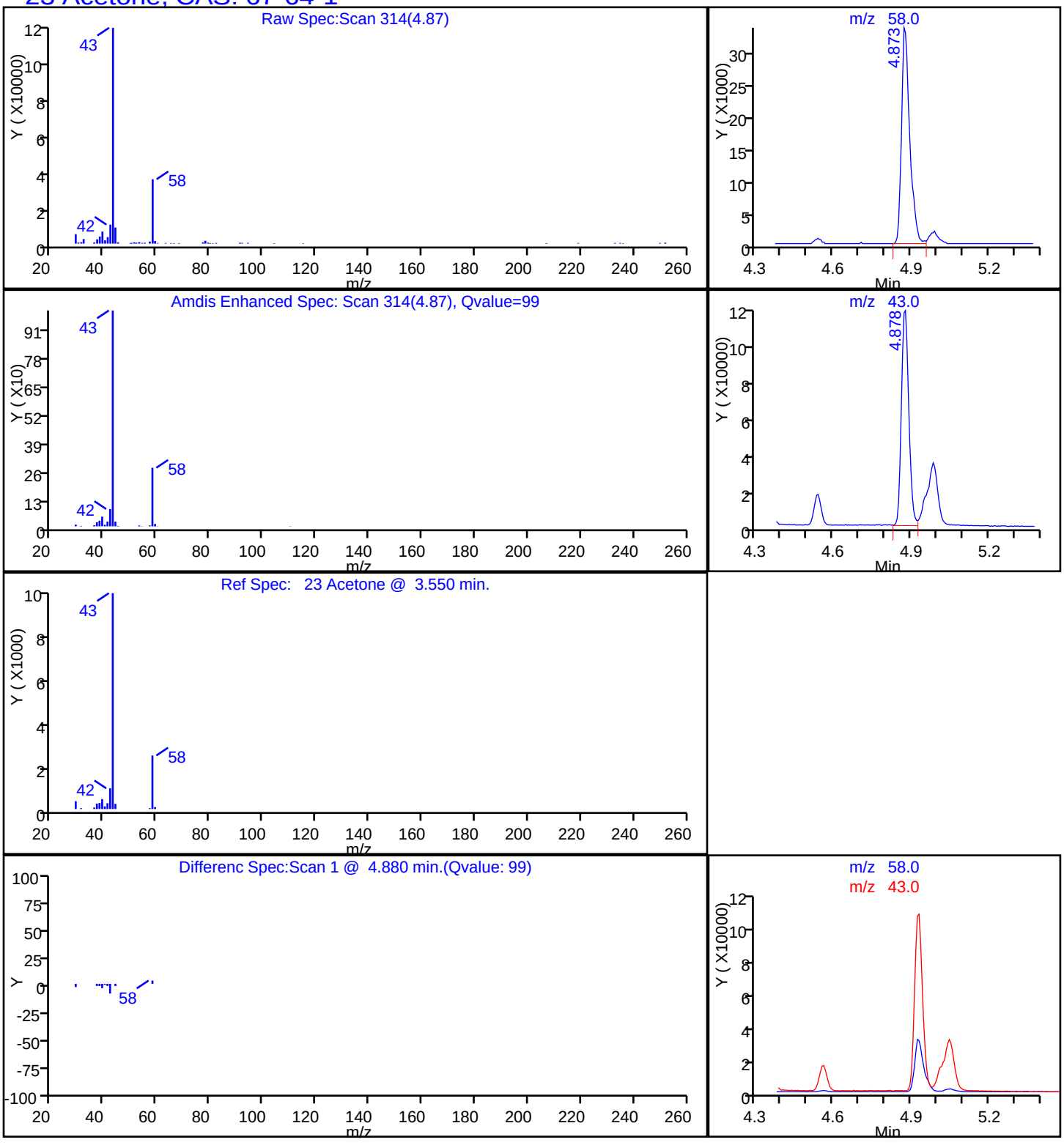


Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



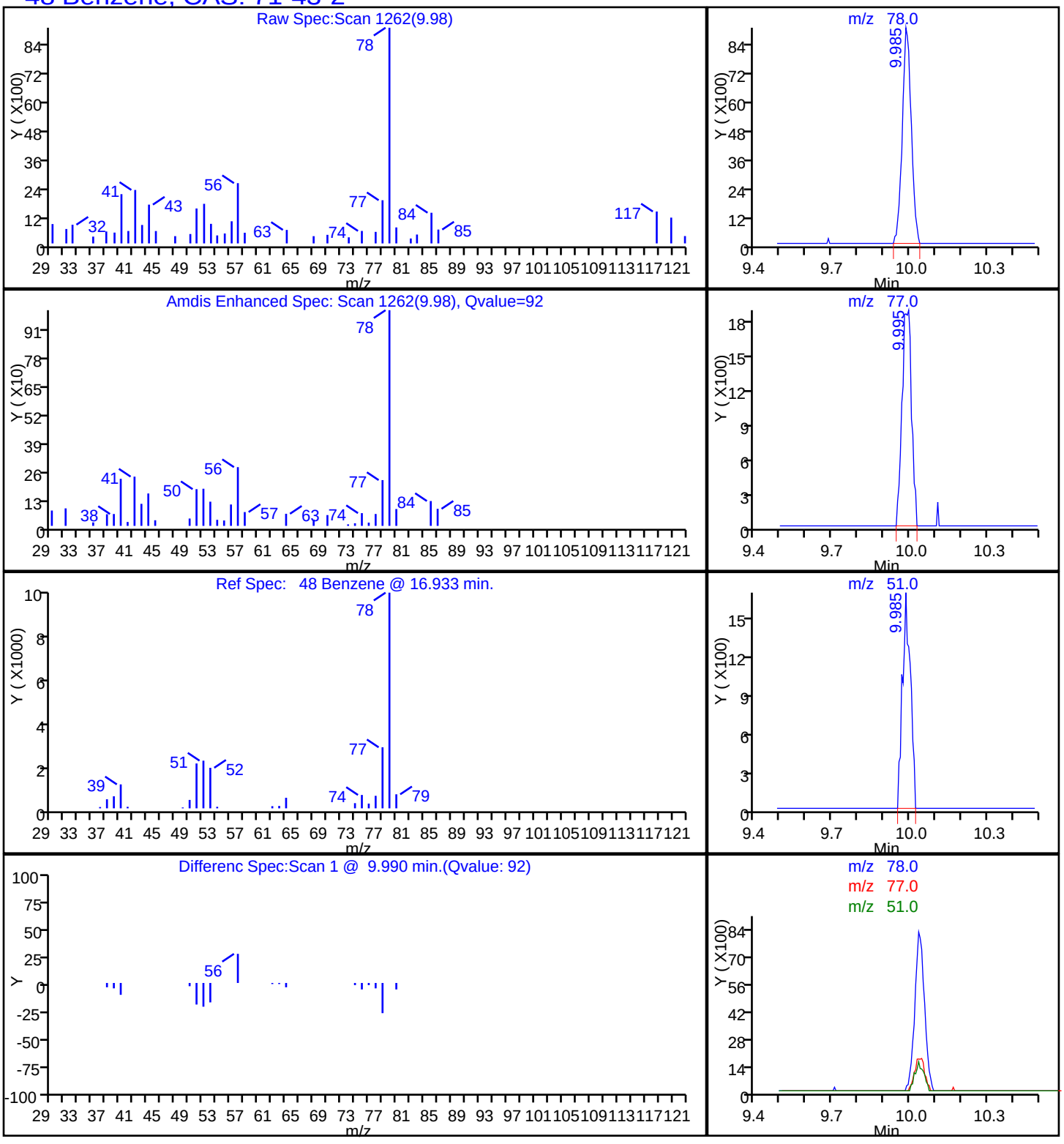
Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15
Client ID:	PCV-IA1-B9		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



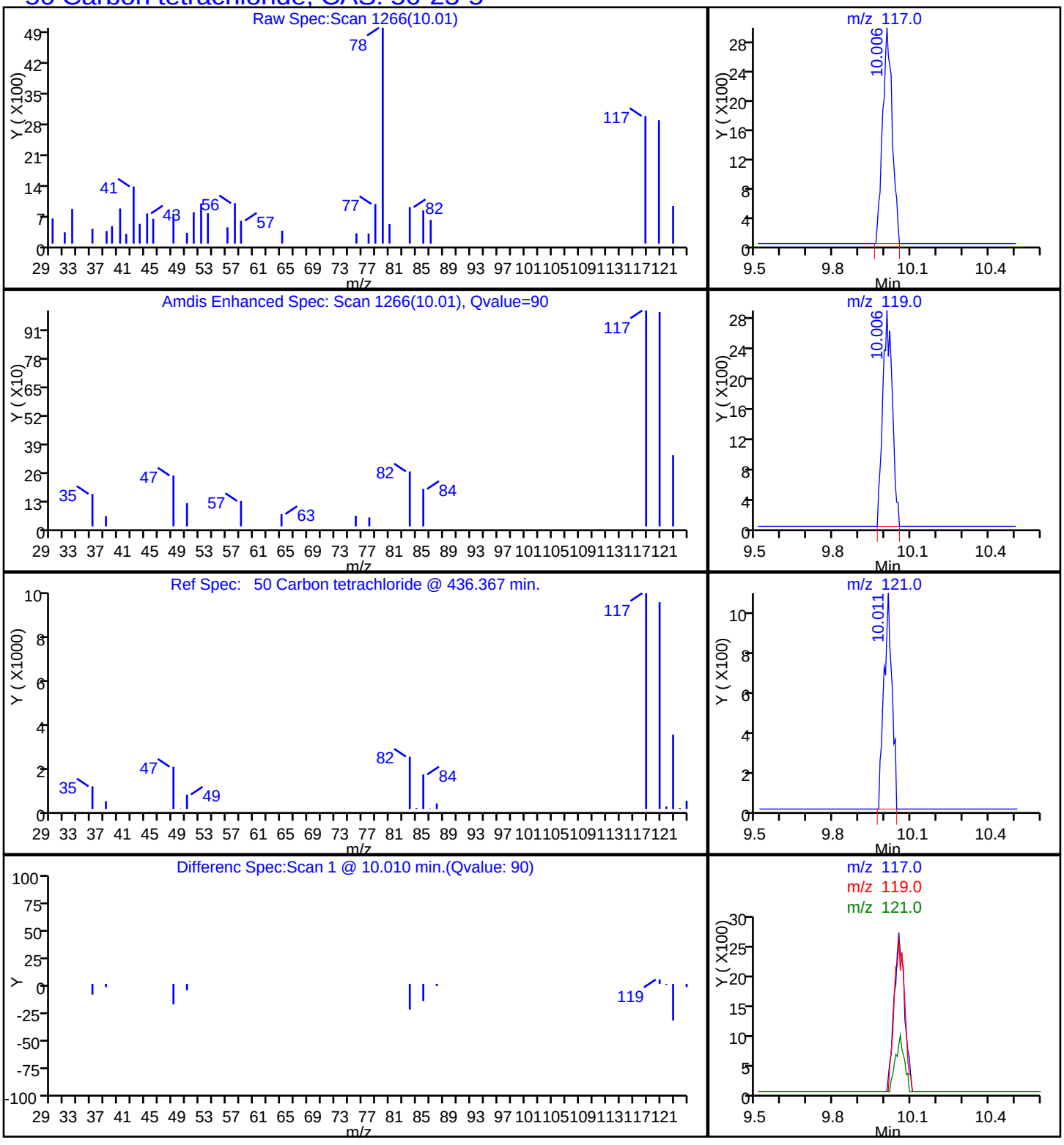
Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15
Client ID:	PCV-IA1-B9		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

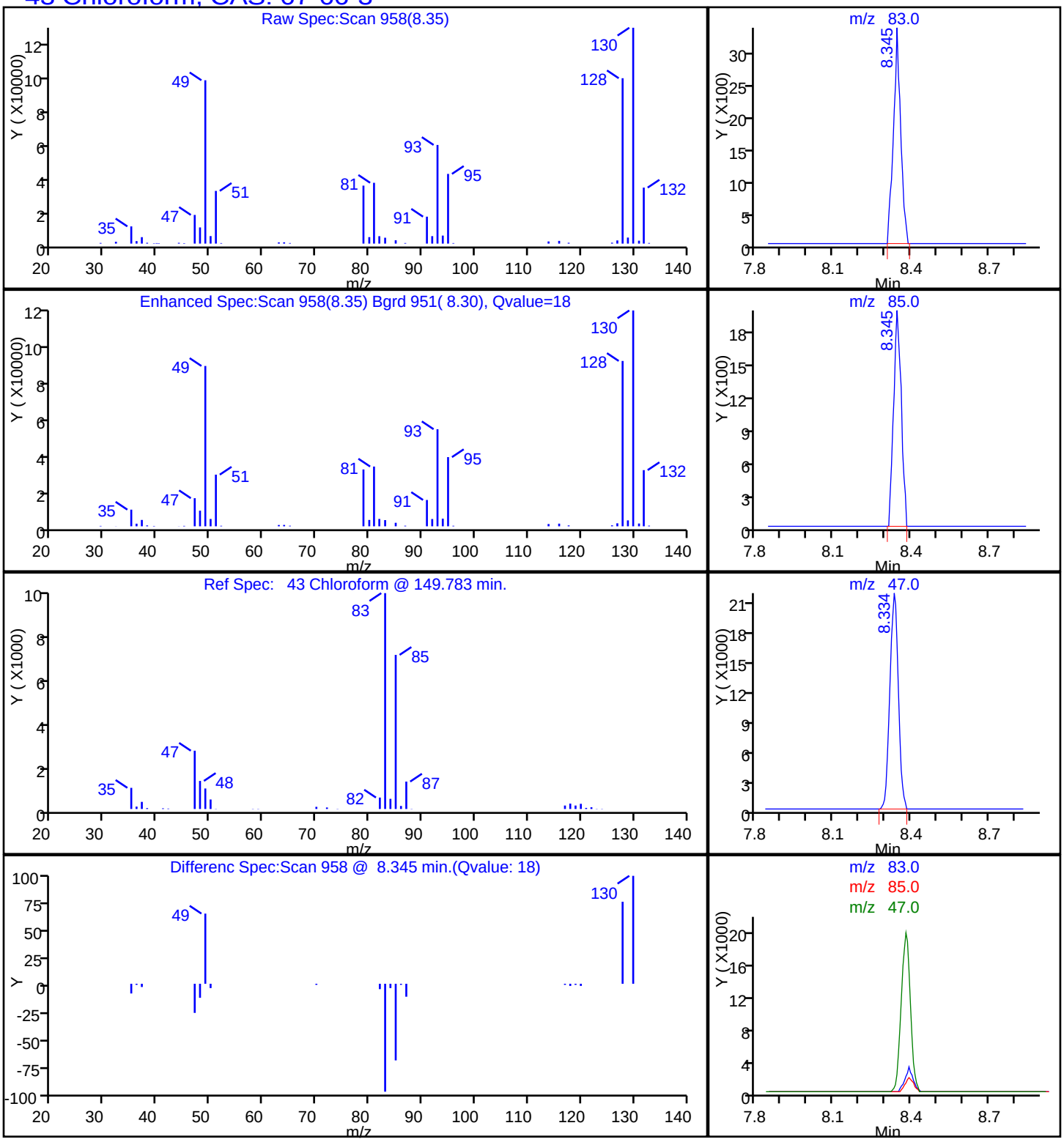
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

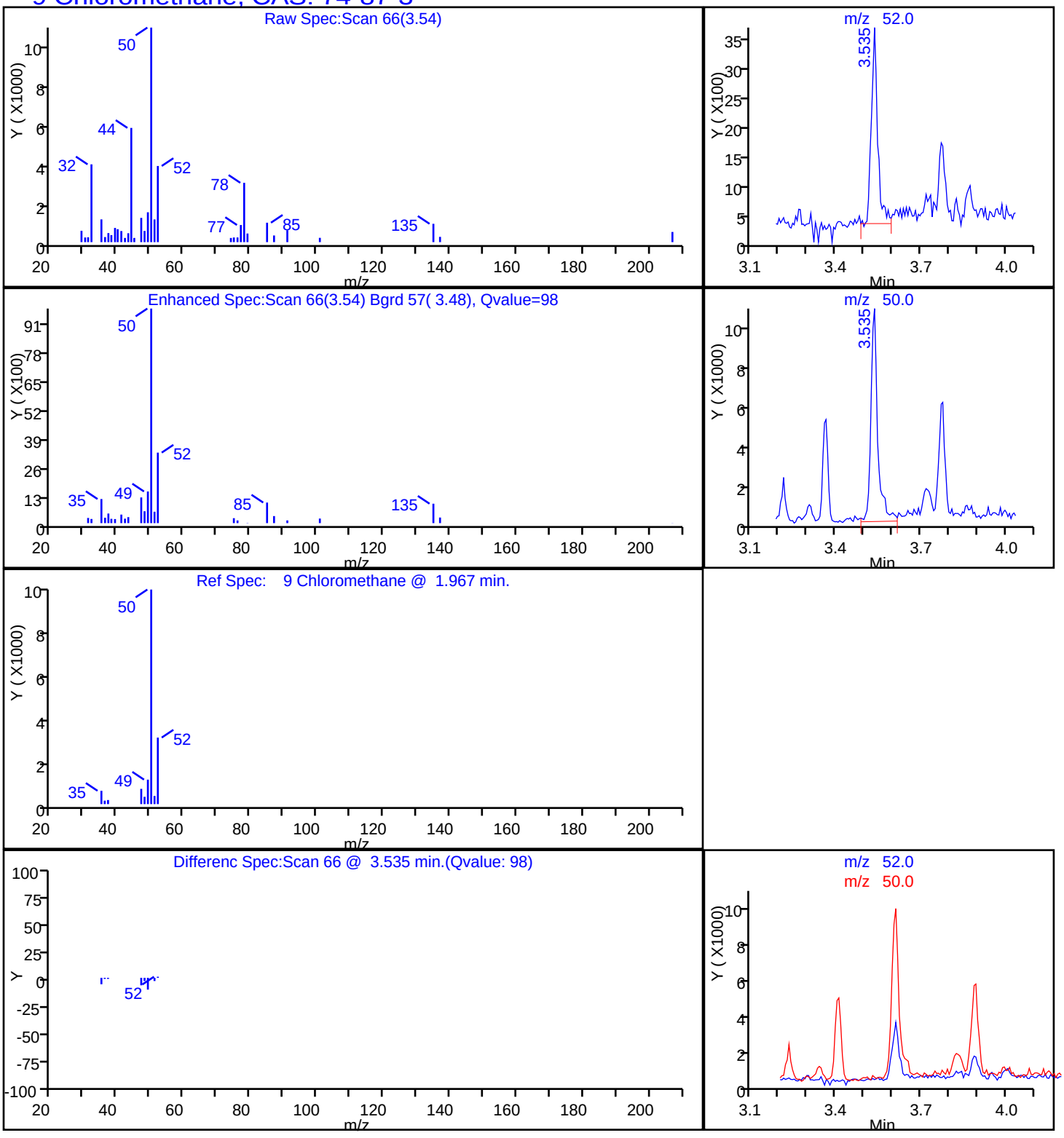
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

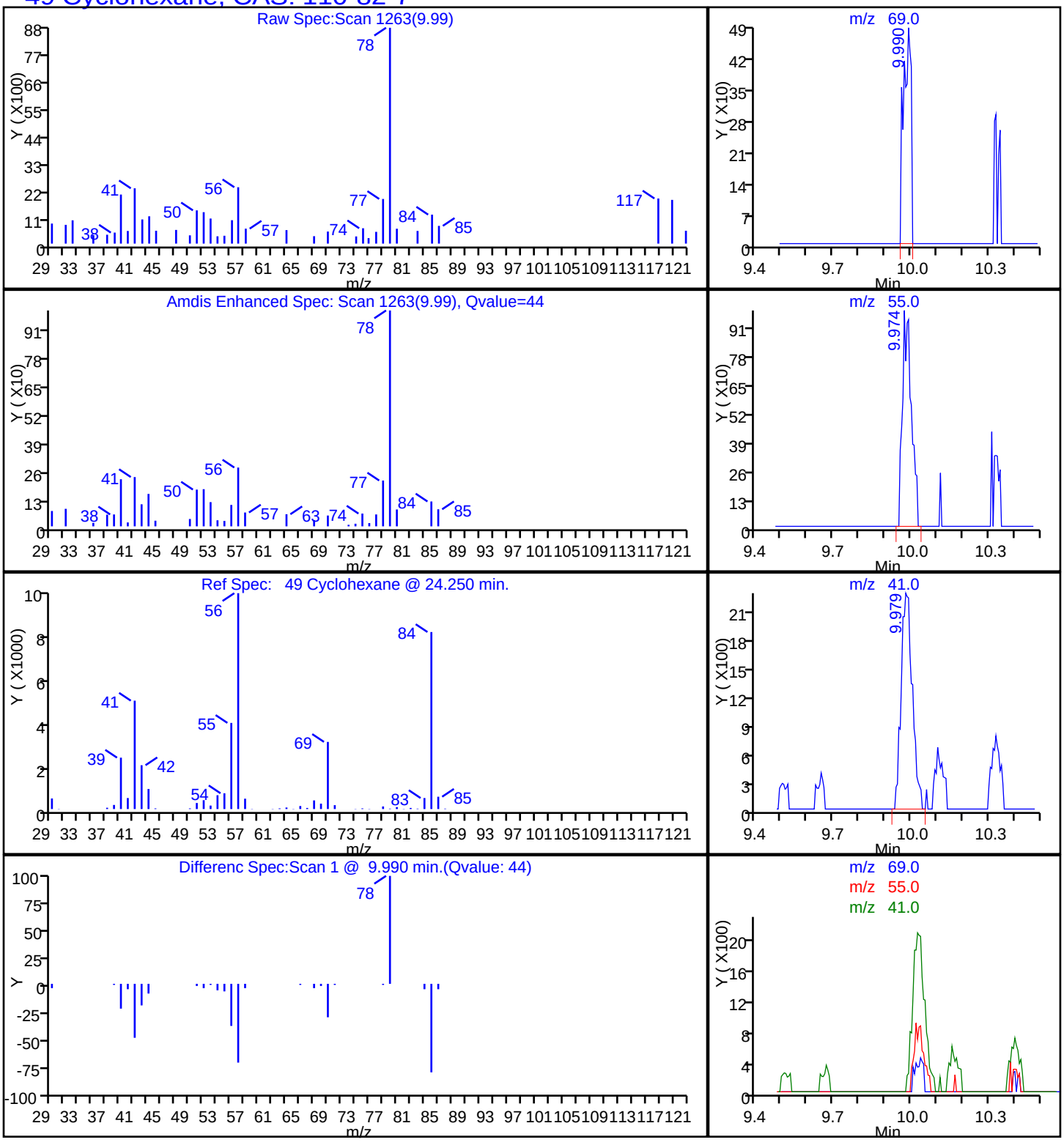
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

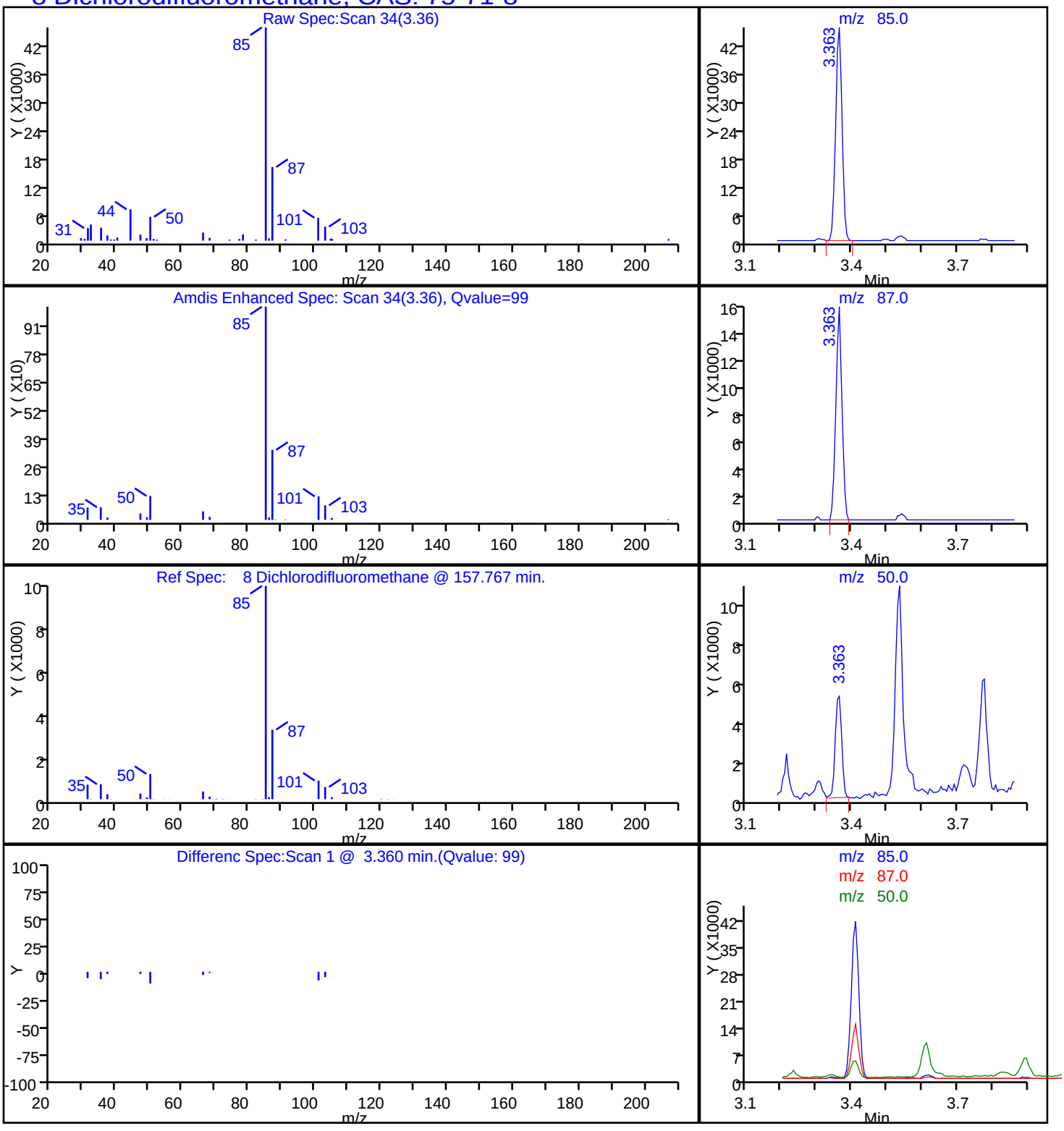
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

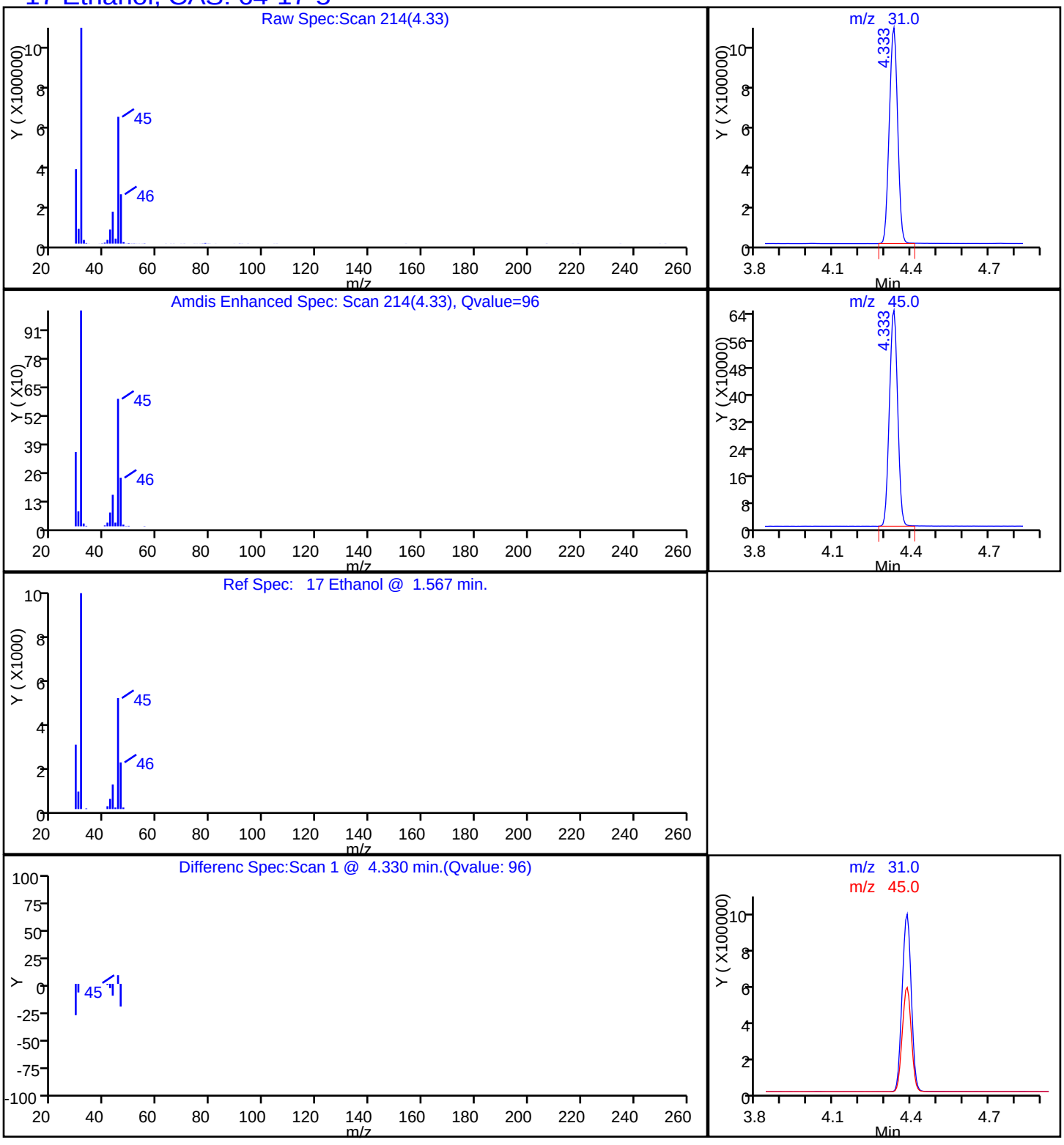


Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



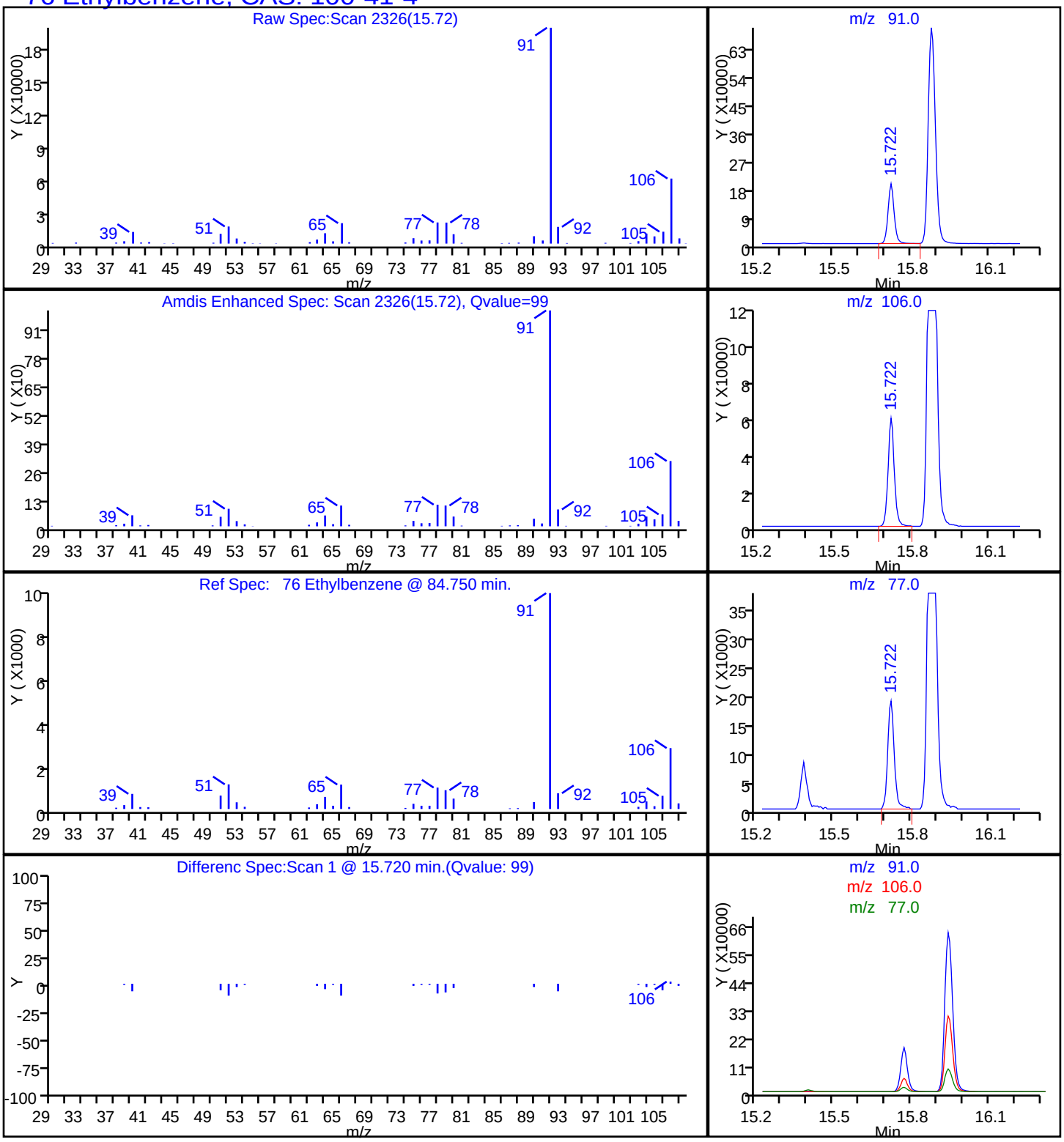
Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



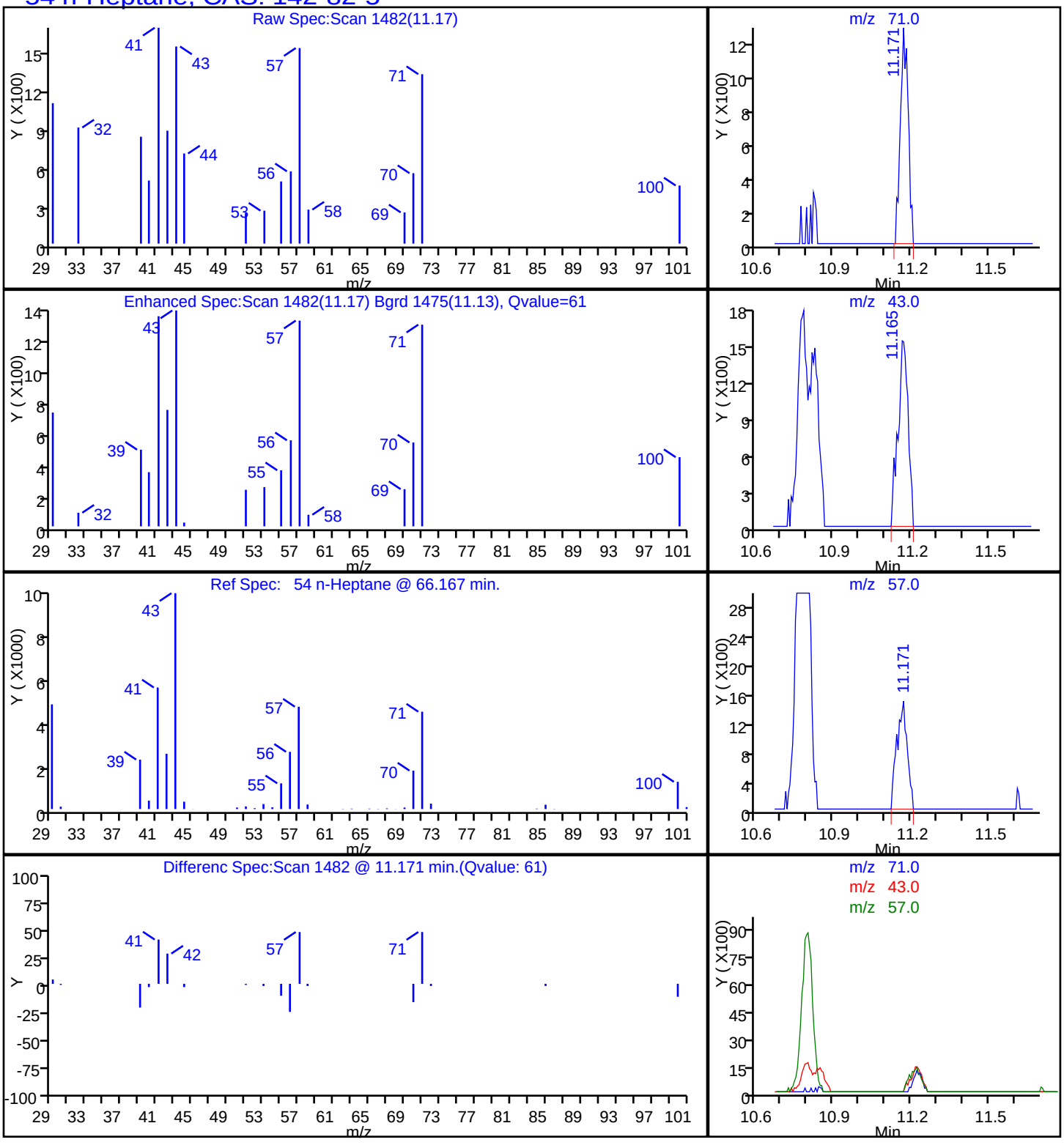
Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



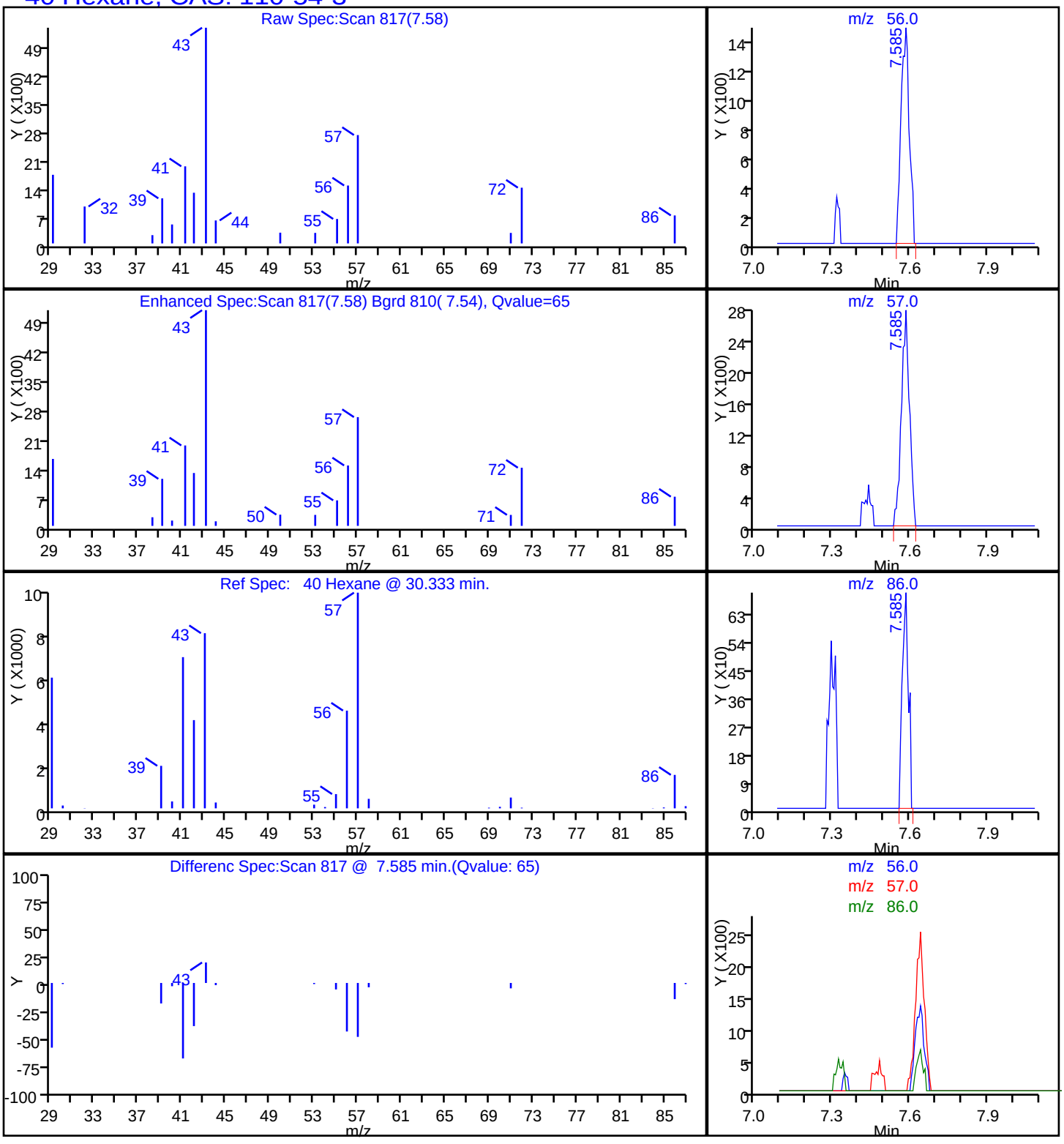
Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

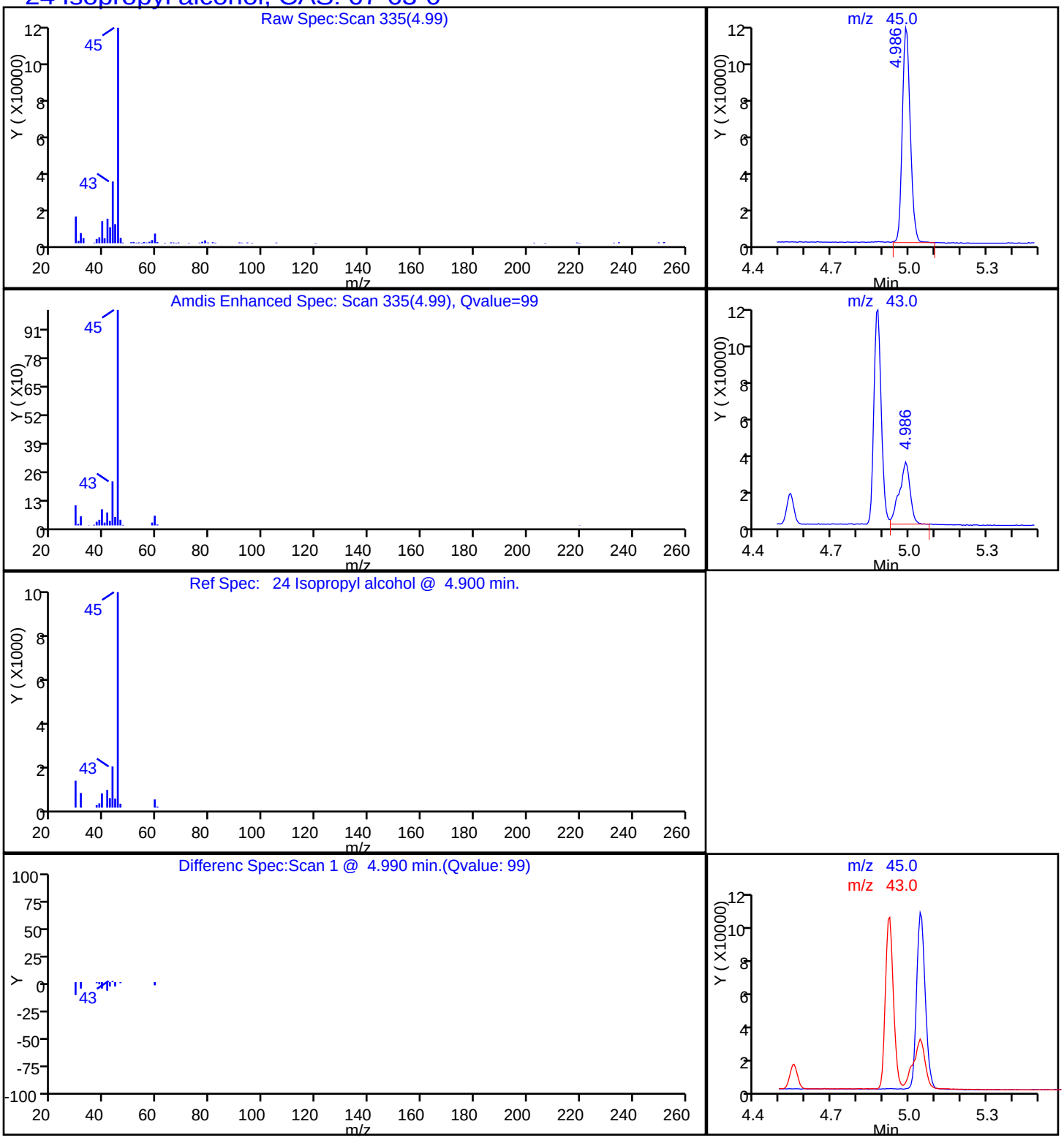
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



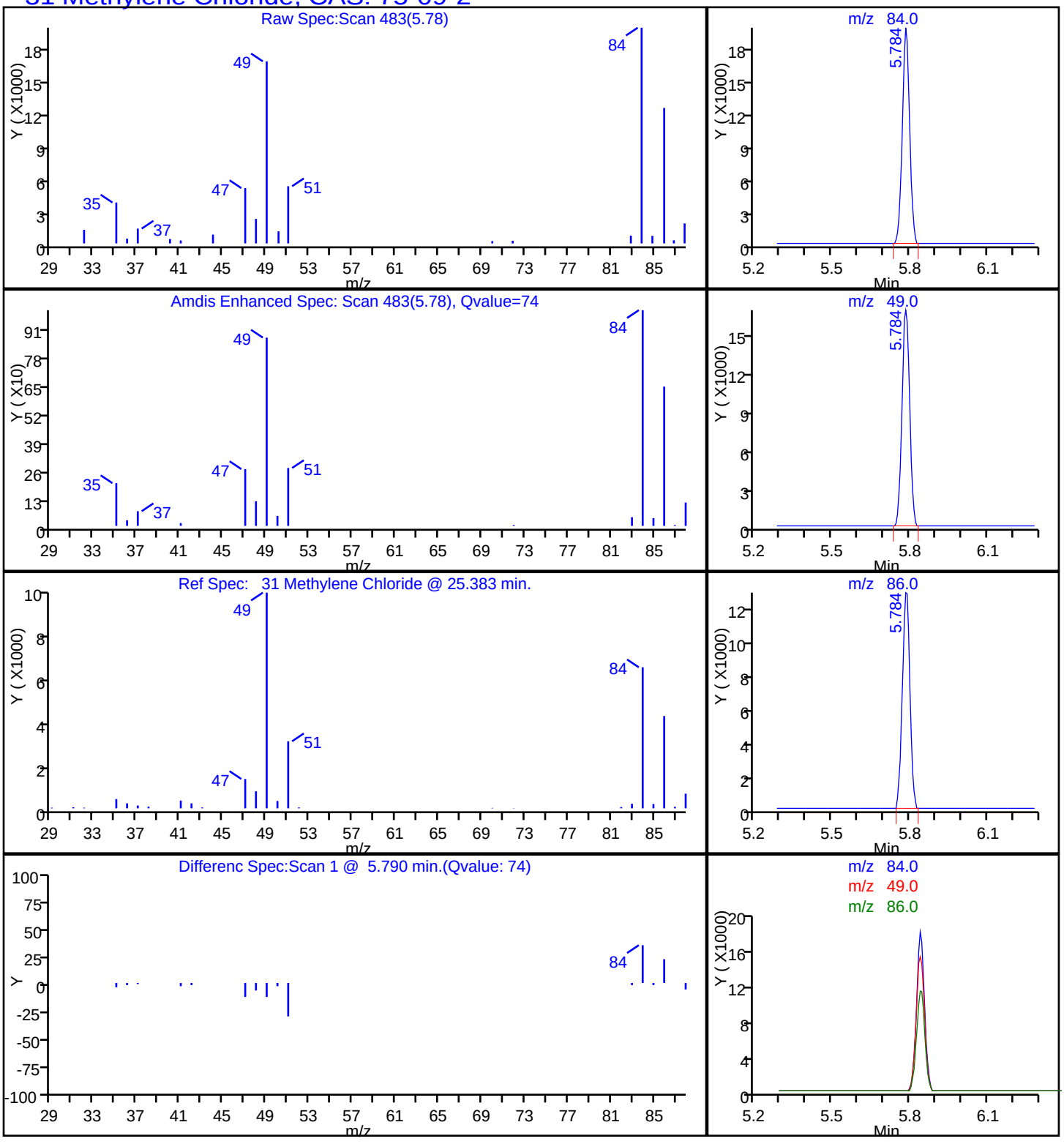
Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

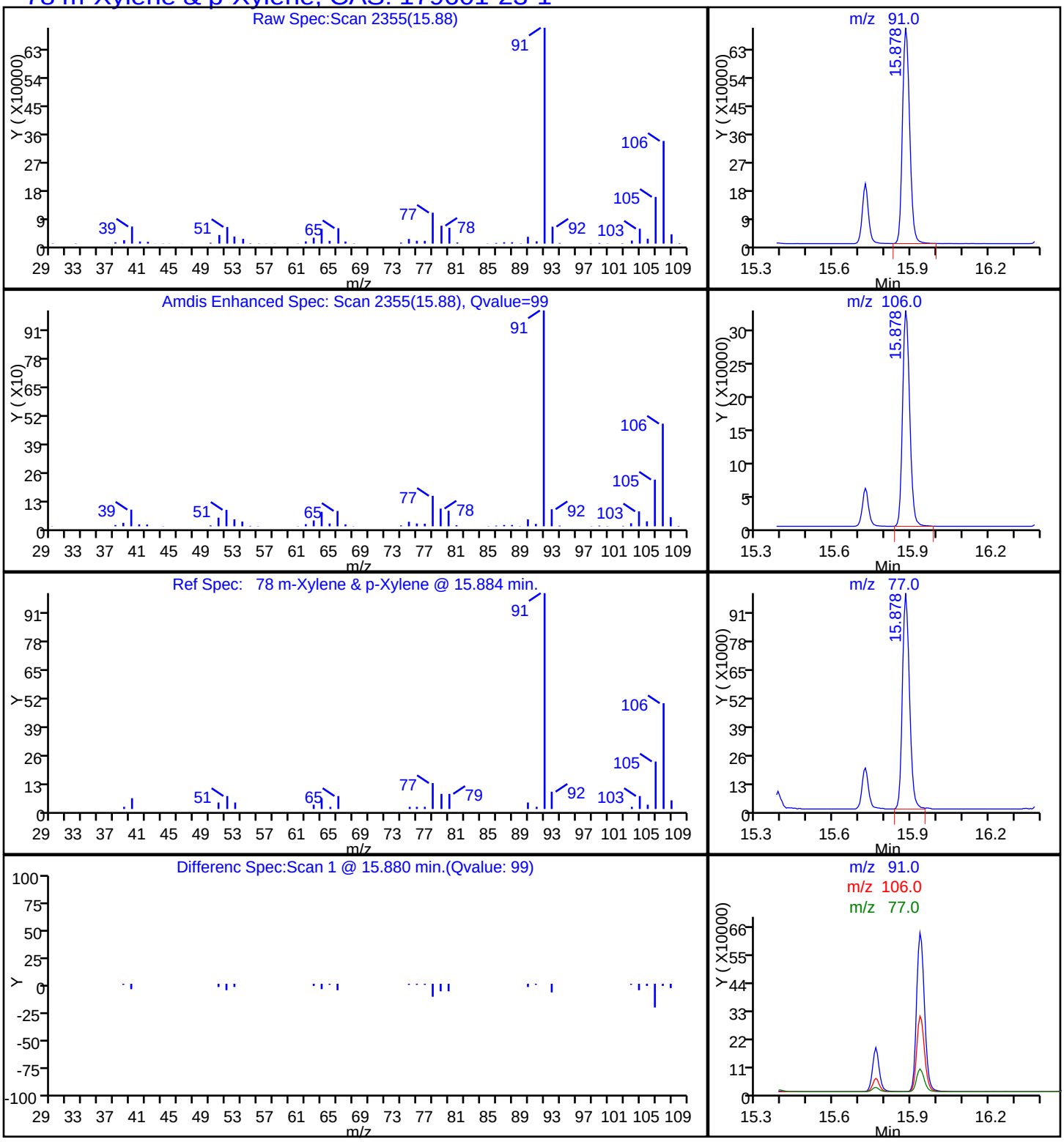


Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

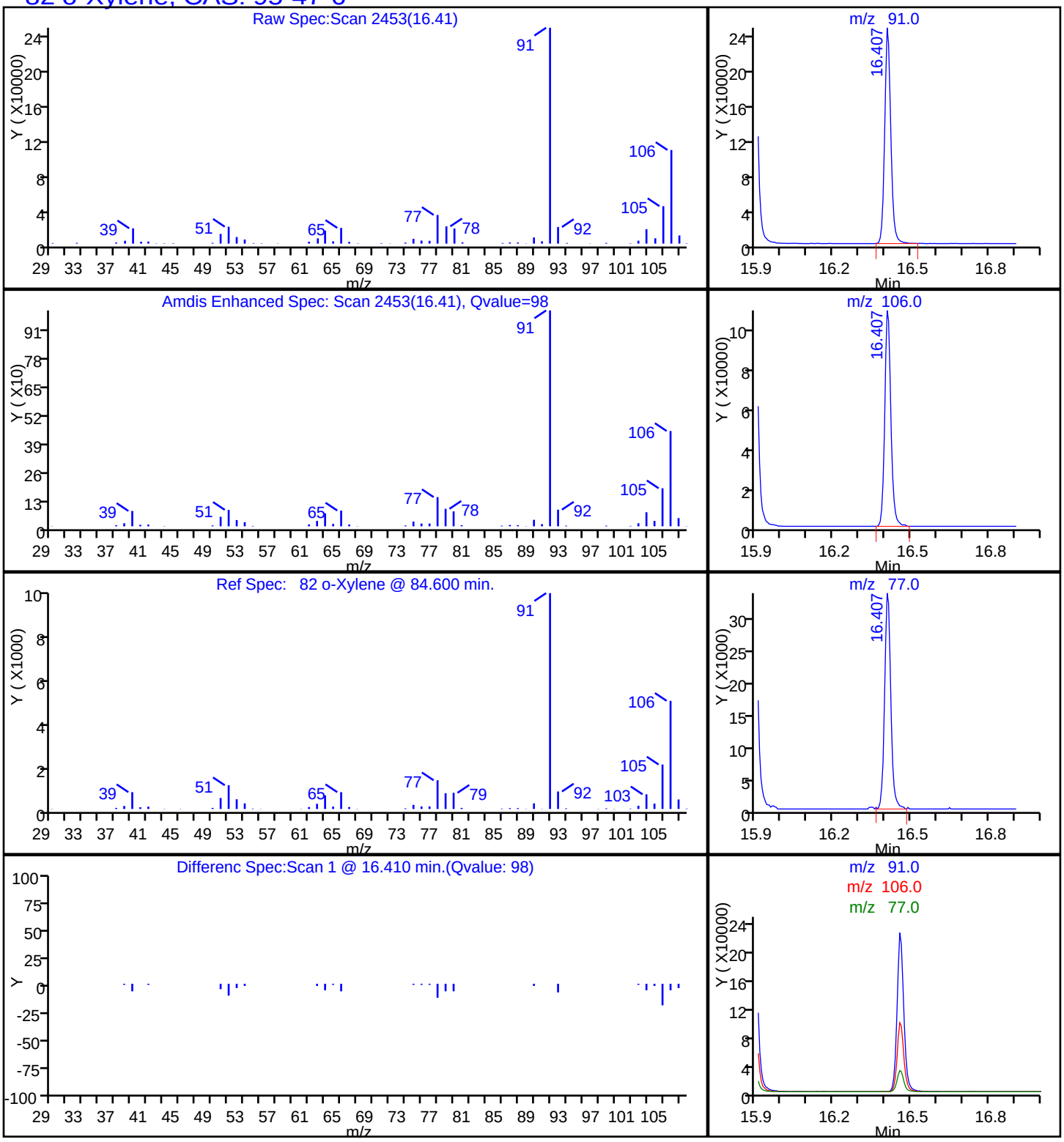


Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date: 21-Mar-2014 01:33:30 Instrument ID: ME

Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15

Client ID: PCV-IA1-B9

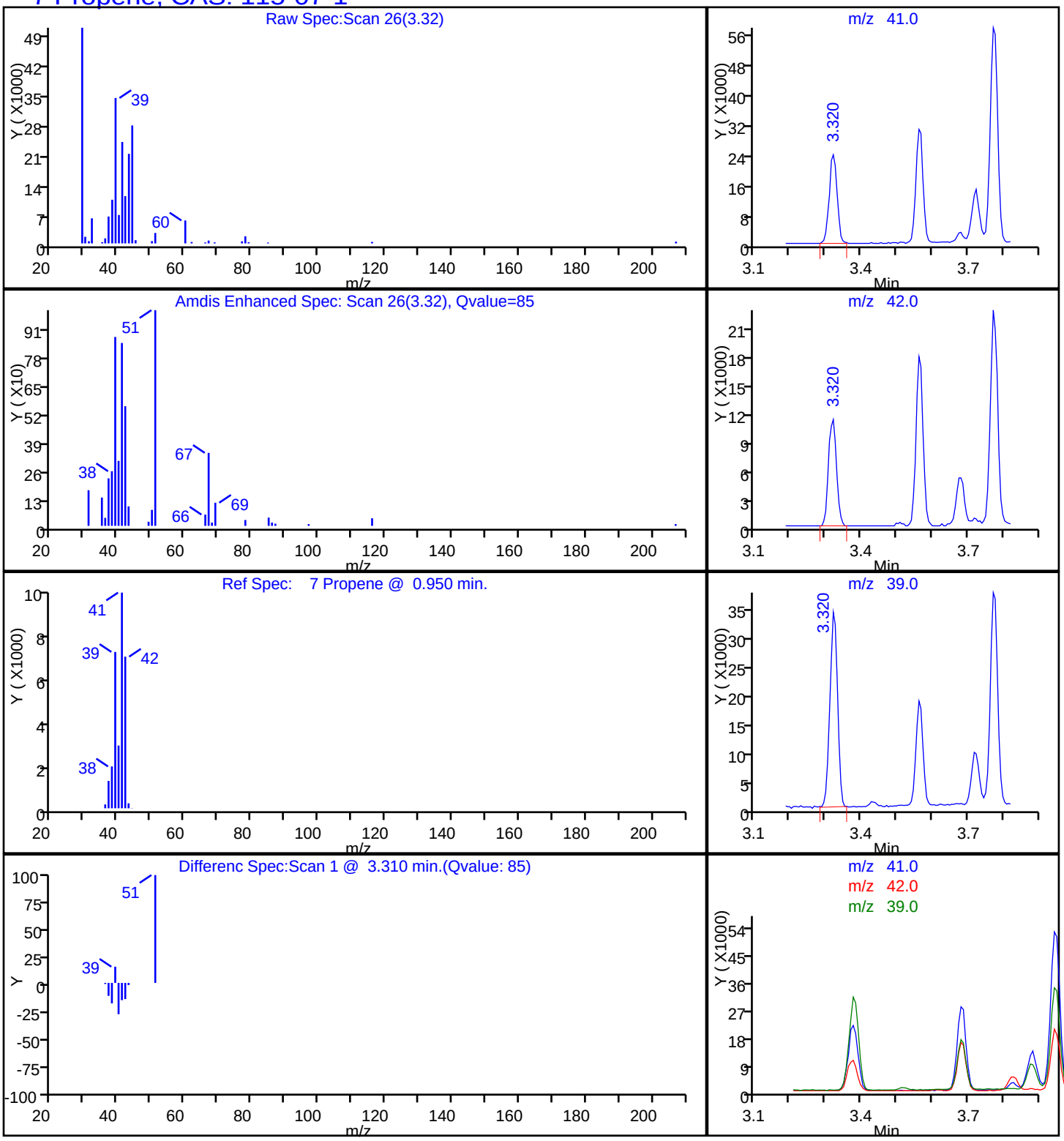
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



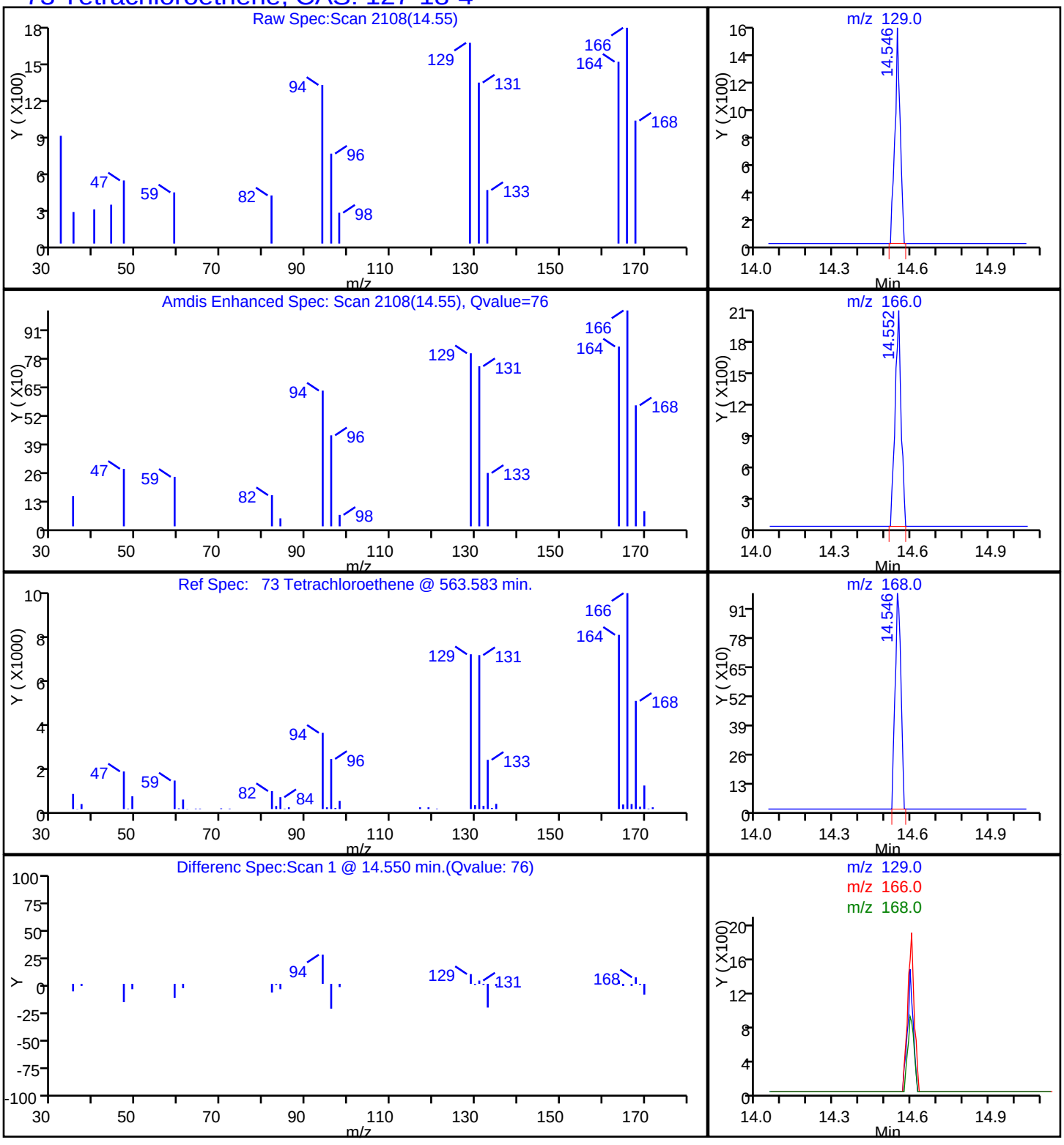
Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D

Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4

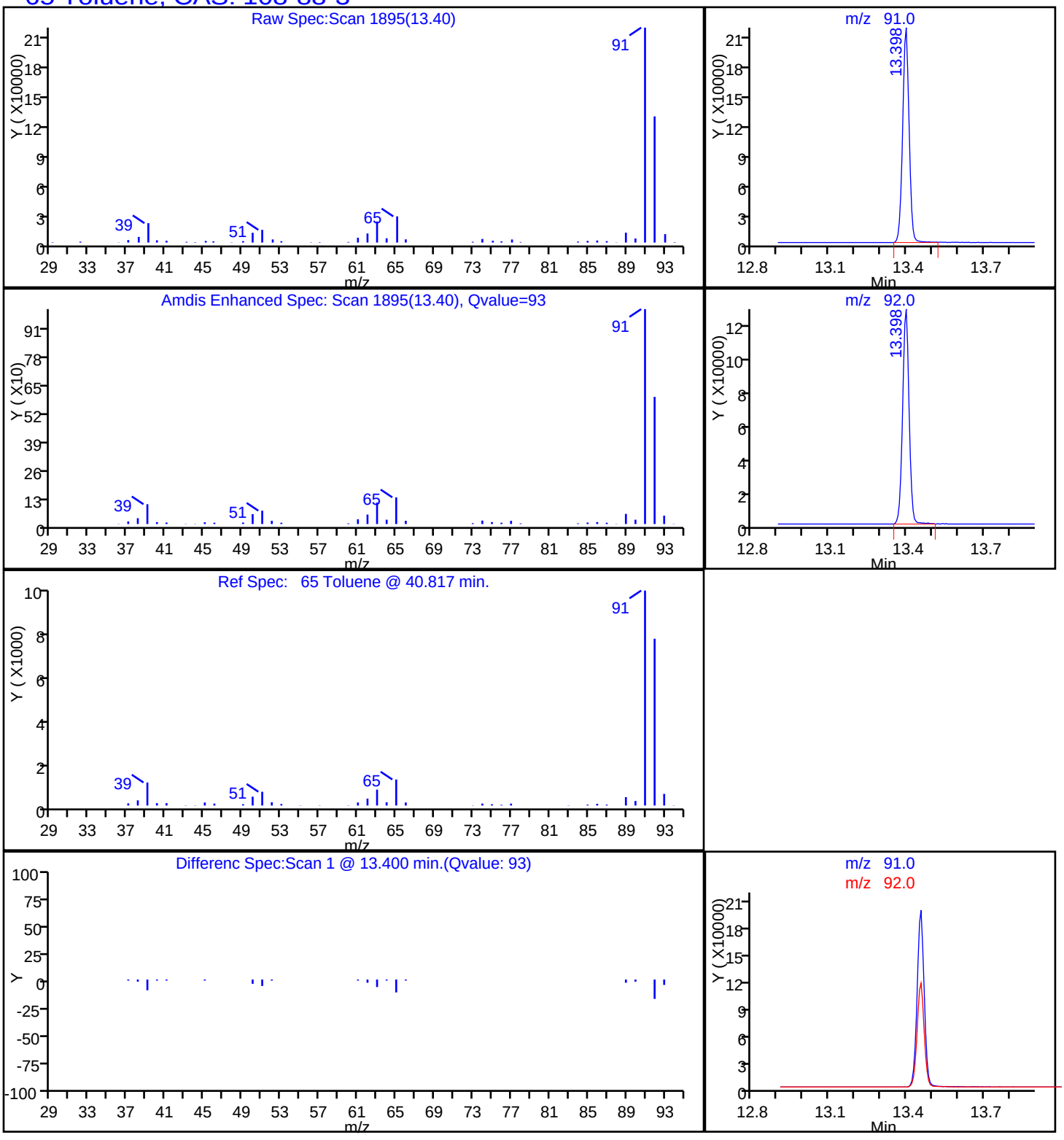


Report Date: 21-Mar-2014 09:40:22 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D		
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15
Client ID:	PCV-IA1-B9		
Operator ID:	7126	ALS Bottle#:	13 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3

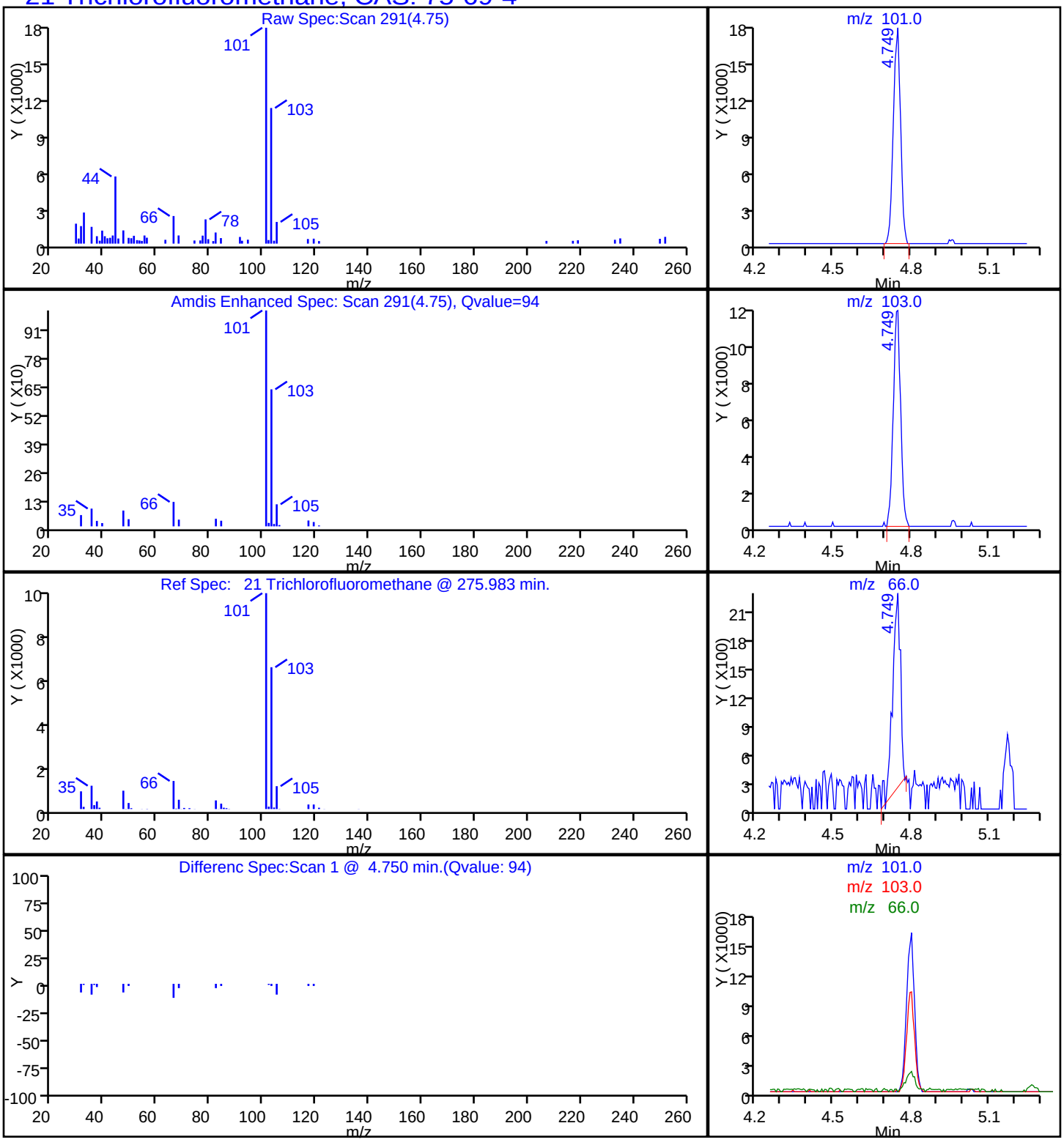


Report Date: 21-Mar-2014 09:40:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P113.D				
Injection Date:	21-Mar-2014 01:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 DL Lab Sample ID: 140-1060-15 DL

Matrix: Air Lab File ID: JC21P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 20:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	280		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B9 DL Lab Sample ID: 140-1060-15 DL

Matrix: Air Lab File ID: JC21P106.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:19

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 20:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	520		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P106.D
Lims ID: 140-1060-A-15 Lab Sample ID: 140-1060-15
Client ID: PCV-IA1-B9
Sample Type: Client
Inject. Date: 21-Mar-2014 20:00:30 ALS Bottle#: 6 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-15
Misc. Info.: J032114,TO15,,140-0000540-011
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 12:42:24 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: liul Date: 25-Mar-2014 12:42:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.372	9.379	-0.007	91	308849	4.00	
* 2 1,4-Difluorobenzene	114	11.529	11.530	-0.001	94	1484617	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.193	16.194	-0.001	87	1283330	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.812	17.814	-0.002	90	886194	3.90	
7 Propene	41	3.976	3.972	0.004	94	37114	0.3919	
8 Dichlorodifluoromethane	85	4.025	4.031	-0.006	95	31066	0.1015	
9 Chloromethane	52	4.229	4.231	-0.002	88	4858	0.1398	
14 Butadiene	54	4.514	4.516	-0.002	25	3087	0.0388	
17 Ethanol	31	5.111	5.113	-0.002	94	1376693	55.5	
19 2-Methylbutane	43	5.407	5.409	-0.002	89	24981	0.1904	
20 Trichlorofluoromethane	101	5.639	5.640	-0.001	71	12618	0.0470	
23 Acetone	58	5.768	5.769	-0.001	91	41660	0.9489	
24 Isopropyl alcohol	45	5.848	5.844	0.004	97	162969	1.41	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.575	6.576	-0.001	43	2830	0.0152	
31 Methylene Chloride	84	6.747	6.753	-0.006	96	24456	0.2960	
39 2-Butanone (MEK)	72	8.597	8.583	0.015	90	2358	0.0807	
40 Hexane	56	8.624	8.631	-0.007	68	3814	0.0459	
43 Chloroform	83	9.383	9.389	-0.006	7	2837	0.0158	
48 Benzene	78	11.013	11.014	-0.001	78	16550	0.0650	
53 Isooctane	57	11.755	11.756	-0.001	91	33701	0.0775	
54 n-Heptane	71	12.105	12.117	-0.012	79	2745	0.0305	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.365	0.009	62	5486	0.0353	
65 Toluene	91	14.246	14.247	-0.001	93	231526	0.9725	
76 Ethylbenzene	91	16.521	16.523	-0.002	98	177137	0.6736	
78 m-Xylene & p-Xylene	91	16.677	16.684	-0.007	99	595841	2.81	
82 o-Xylene	91	17.205	17.206	-0.001	99	202504	0.9414	
93 1,2,4-Trimethylbenzene	105	18.937	18.938	-0.001	51	7983	0.0320	

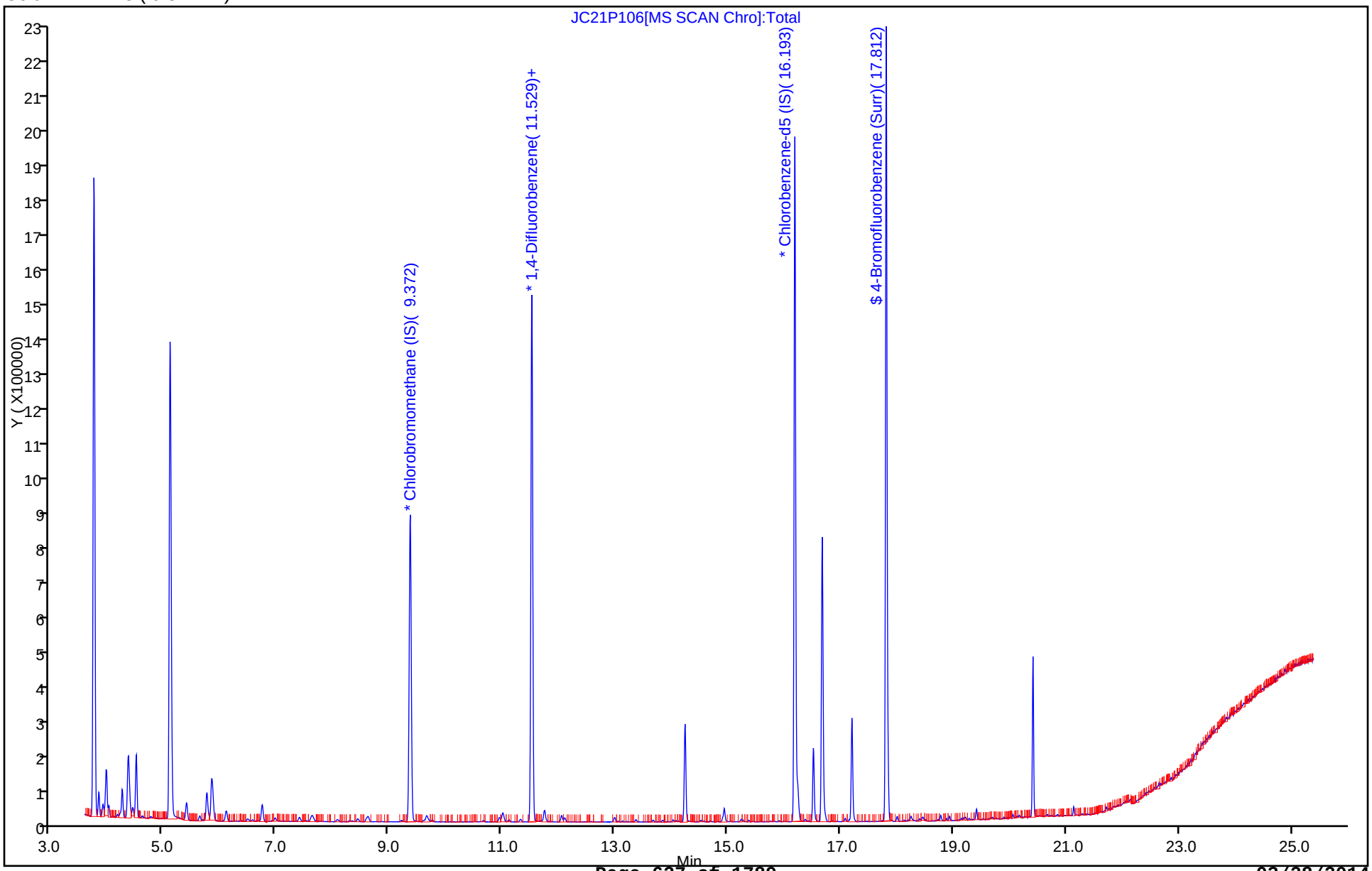
Report Date: 25-Mar-2014 12:43:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P106.D

Injection Date:	21-Mar-2014 20:00:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15	Worklist Smp#:	11
Client ID:	PCV-IA1-B9				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

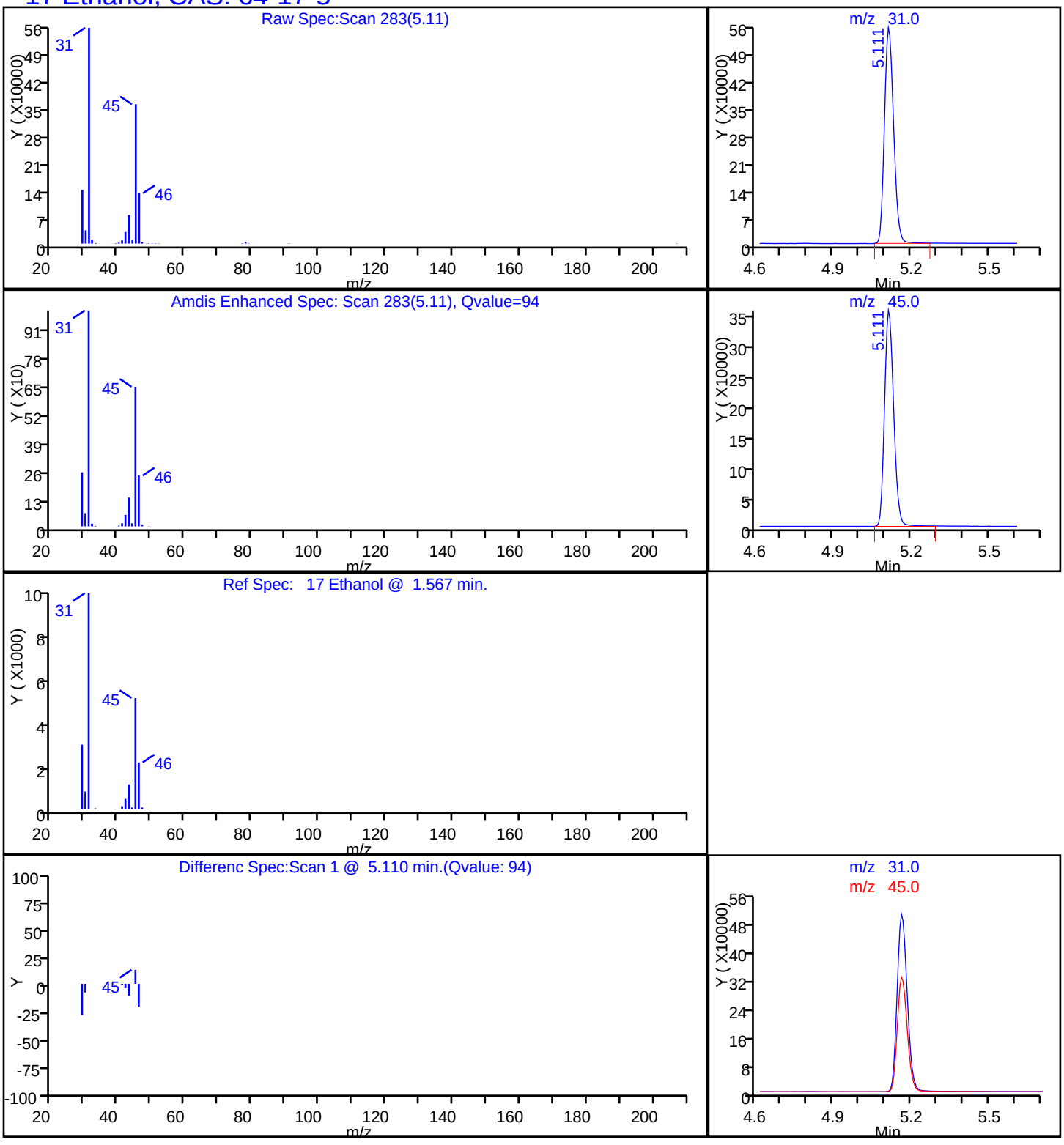


Report Date: 25-Mar-2014 12:43:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P106.D				
Injection Date:	21-Mar-2014 20:00:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-15	Lab Sample ID:	140-1060-15		
Client ID:	PCV-IA1-B9				
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 Lab Sample ID: 140-1060-16

Matrix: Air Lab File ID: EC20P114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.058	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.092	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.17	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.77		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	3.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 | Lab Sample ID: 140-1060-16

Matrix: Air | Lab File ID: EC20P114.D

Analysis Method: TO-15 | Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) | Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 977 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.064	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.48	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.045	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*200*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	2.2		0.20	0.068
142-82-5	Heptane	100.21	0.063	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.094	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.99		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	12		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	3.2		0.20	0.061
115-07-1	Propene	42.08	1.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.051	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	4.5		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.24		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 Lab Sample ID: 140-1060-16

Matrix: Air Lab File ID: EC20P114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 Lab Sample ID: 140-1060-16

Matrix: Air Lab File ID: EC20P114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.45	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.45	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.37	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	7.9	J	12	3.3
71-43-2	Benzene	78.11	0.62	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 Lab Sample ID: 140-1060-16

Matrix: Air Lab File ID: EC20P114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.15	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*390*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	9.7		0.87	0.30
142-82-5	Heptane	100.21	0.26	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.33	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	3.4		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	50		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	14		0.87	0.26
115-07-1	Propene	42.08	2.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	17		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 Lab Sample ID: 140-1060-16

Matrix: Air Lab File ID: EC20P114.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D
Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16
Client ID: PCV-IA1FD-B9
Sample Type: Client
Inject. Date: 21-Mar-2014 02:19:30 ALS Bottle#: 14 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-16
Misc. Info.: E032014,TO155,,140-0000533-018
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:43:54 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:43:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	304517	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1424160	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1214669	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1017901	3.83	
7 Propene	41	3.319	3.314	0.005	60	40221	0.5251	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	57715	0.1713	
9 Chloromethane	52	3.530	3.530	0.0	98	5199	0.1934	
13 Butadiene	54	3.772	3.772	0.0	29	4802	0.0669	
17 Ethanol	31	4.328	4.317	0.011	96	2496588	82.0	E
19 2-Methylbutane	43	4.533	4.538	-0.005	84	32684	0.3065	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	31830	0.0942	
23 Acetone	58	4.872	4.883	-0.011	99	61492	1.33	
24 Isopropyl alcohol	45	4.980	4.970	0.010	98	256391	2.16	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	68	4892	0.0234	
31 Methylene Chloride	84	5.784	5.789	-0.005	78	34315	0.3943	
40 Hexane	56	7.579	7.585	-0.006	71	3046	0.0376	
43 Chloroform	83	8.340	8.356	-0.016	17	6647	0.0255	
49 Cyclohexane	69	9.984	9.984	0.0	56	957	0.0178	
48 Benzene	78	9.984	9.995	-0.011	93	22083	0.0770	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	84	7614	0.0277	
53 Isooctane	57	10.777	10.788	-0.011	94	35244	0.0797	
54 n-Heptane	71	11.176	11.182	-0.006	57	2717	0.0250	
65 Toluene	91	13.398	13.398	0.0	94	579867	1.78	
73 Tetrachloroethene	129	14.541	14.552	-0.011	78	2853	0.0206	
76 Ethylbenzene	91	15.722	15.722	0.0	98	373043	0.8943	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	1508887	4.60	
82 o-Xylene	91	16.407	16.412	-0.005	98	458534	1.29	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	76	13664	0.0367	

QC Flag Legend

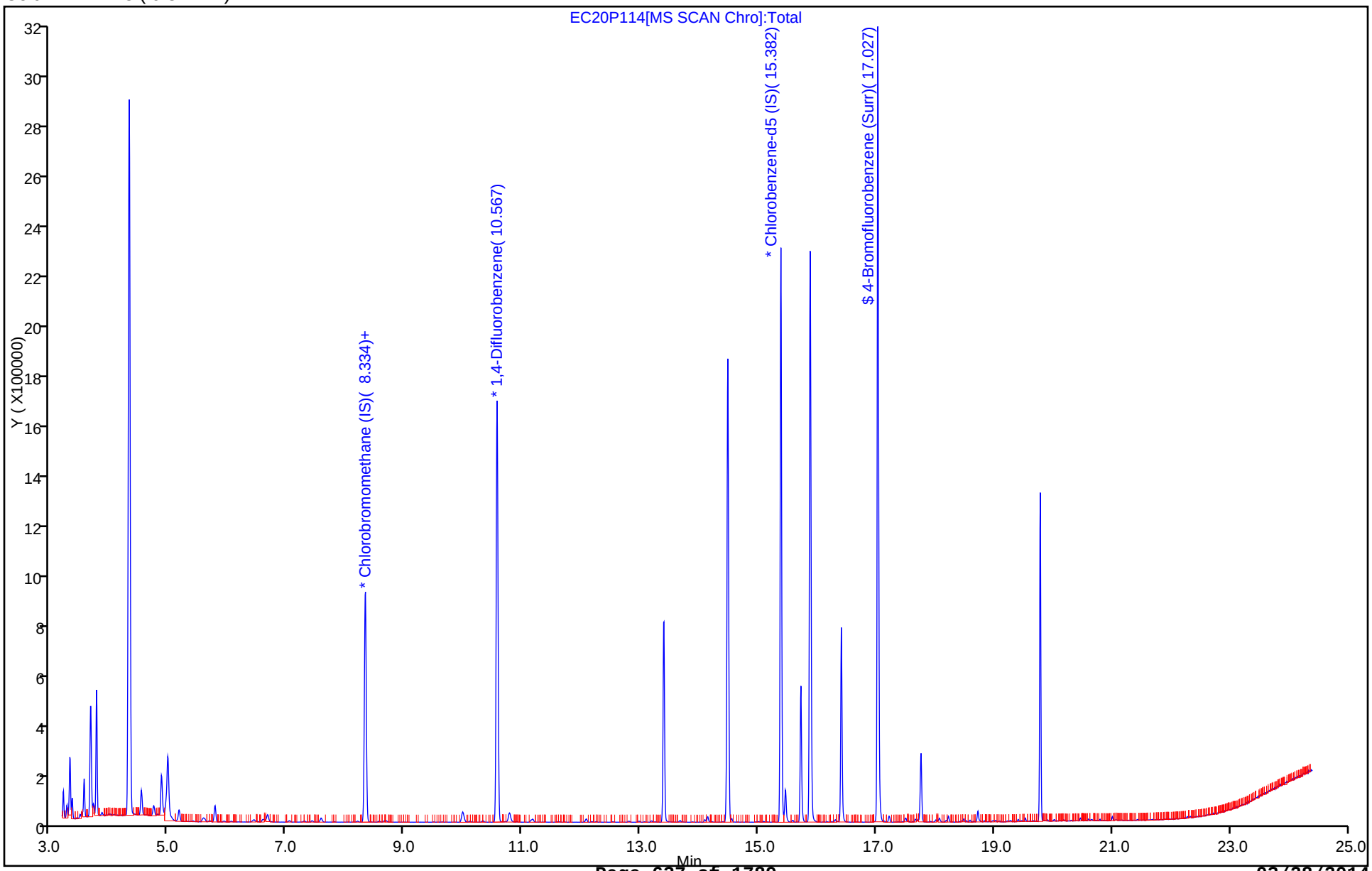
Processing Flags
E - Exceeded Maximum Amount

Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D				
Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16	Worklist Smp#:	18
Client ID:	PCV-IA1FD-B9				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



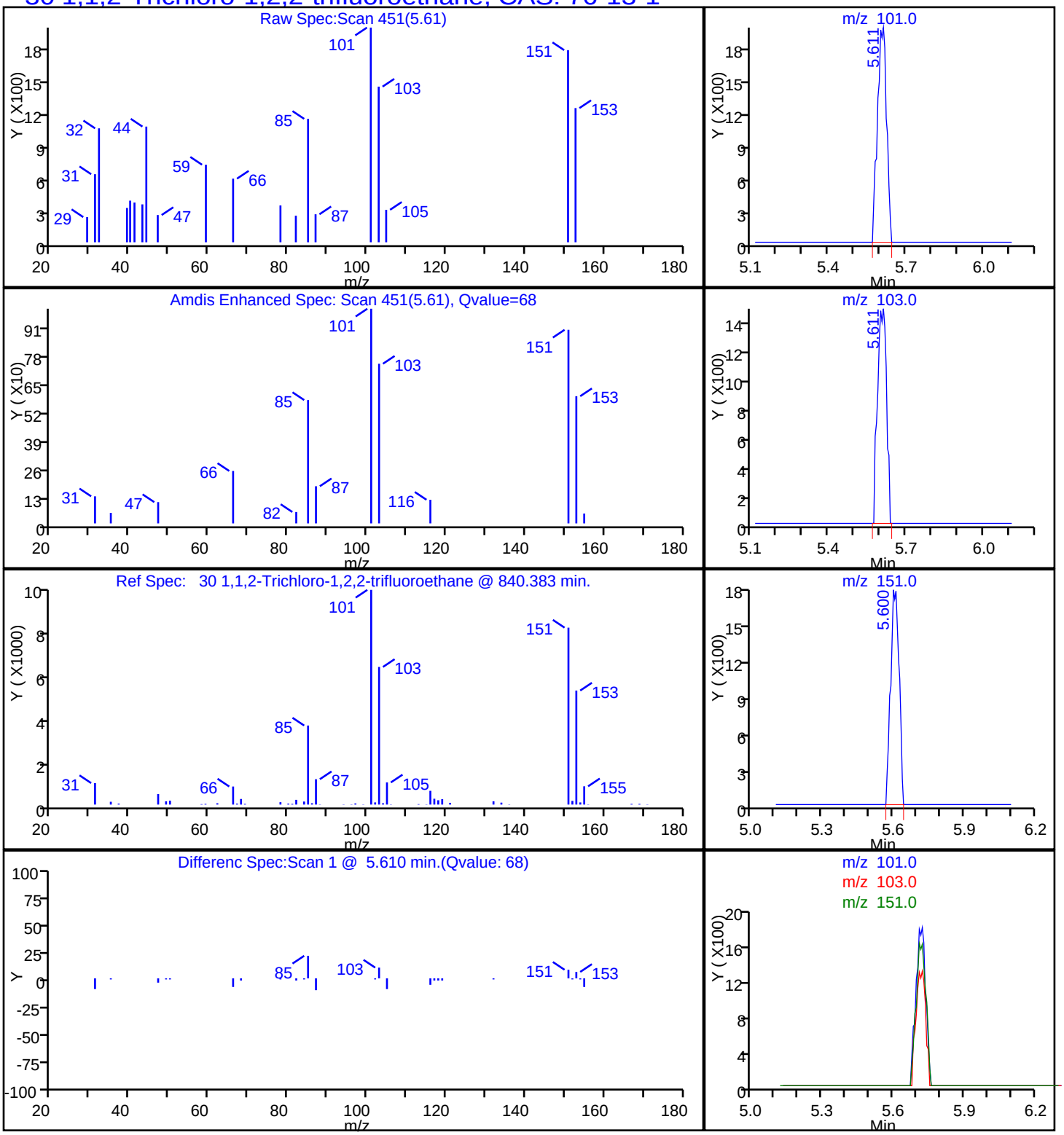
Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

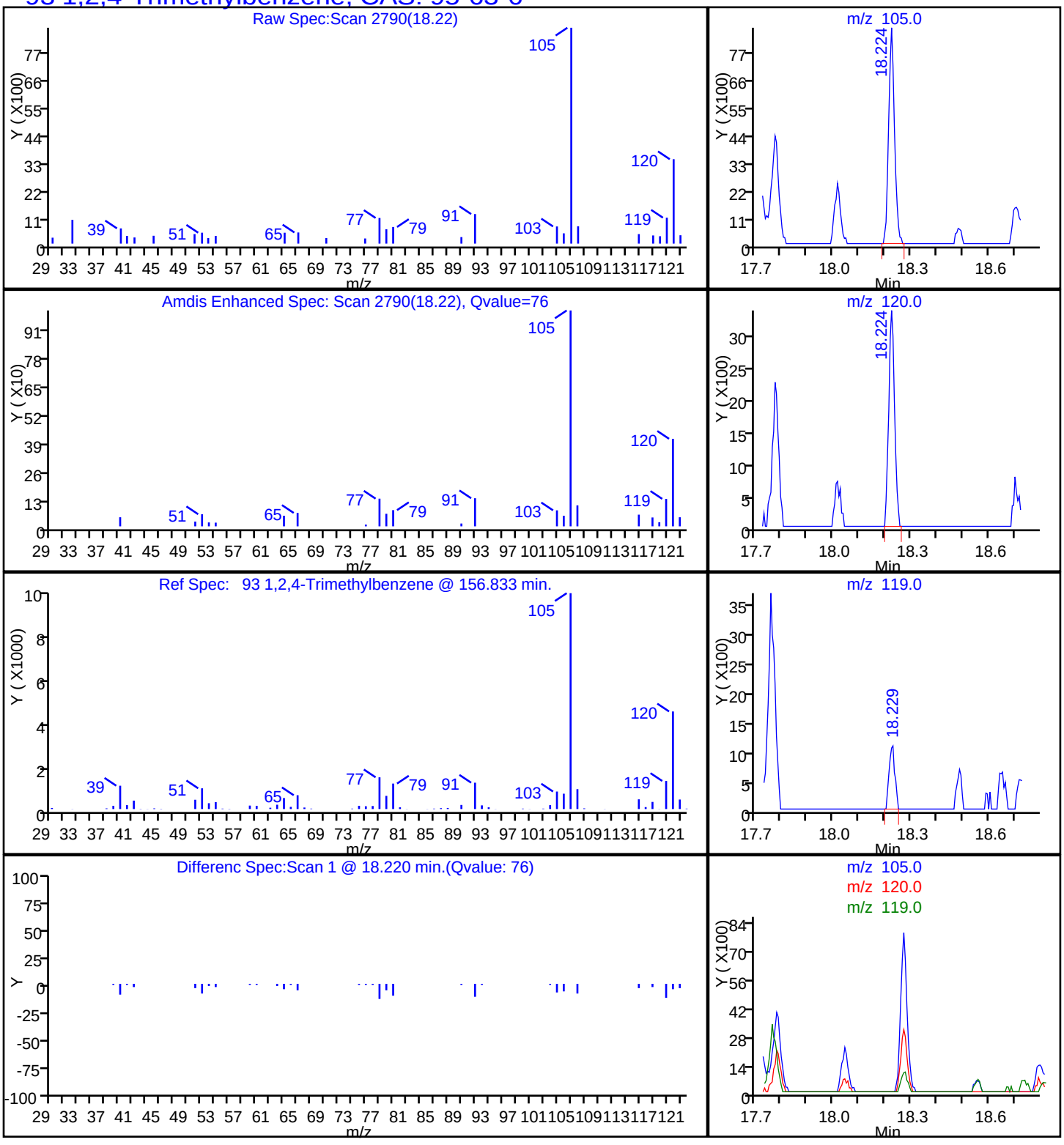


Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D				
Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

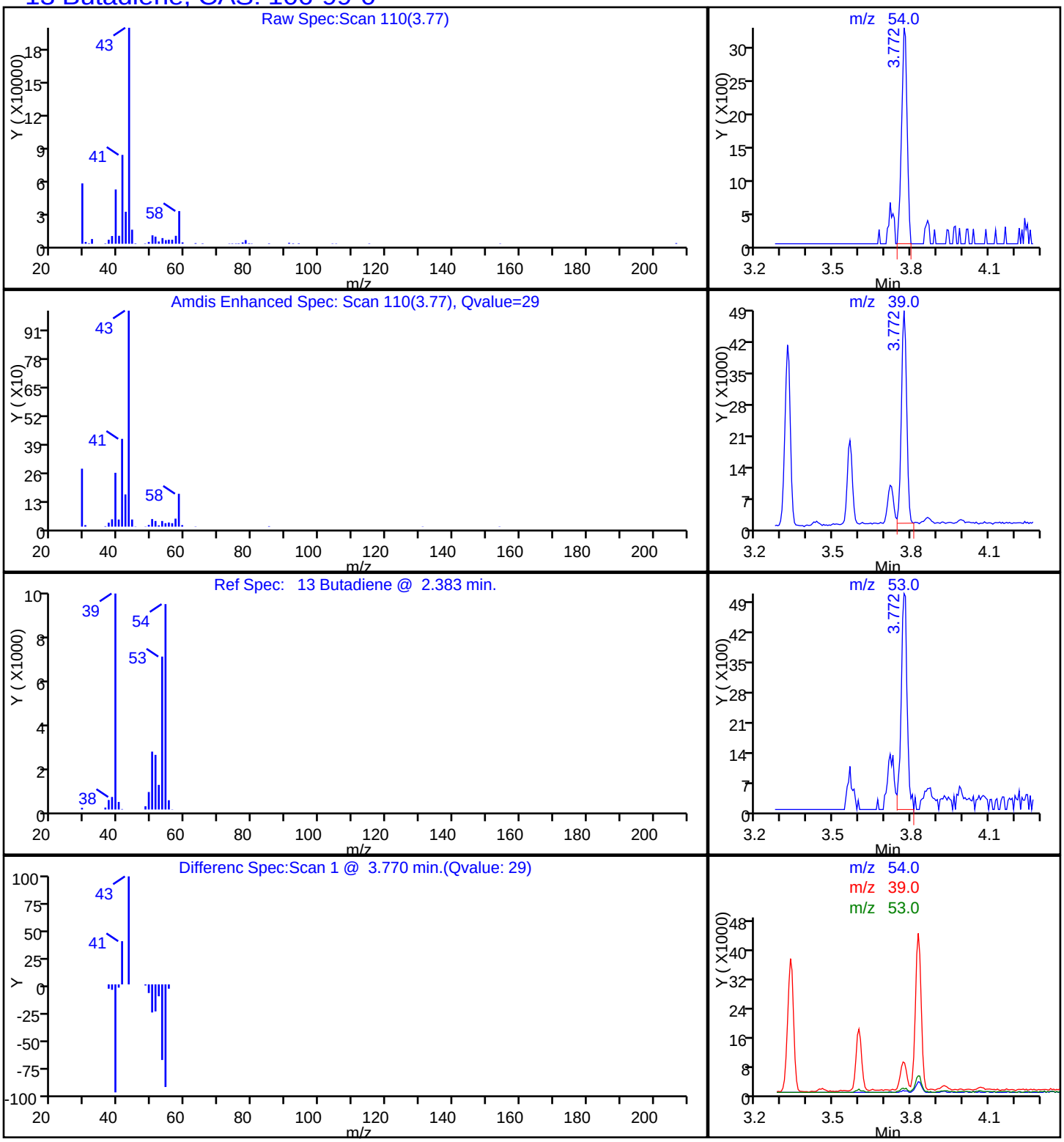


Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D				
Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0



Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

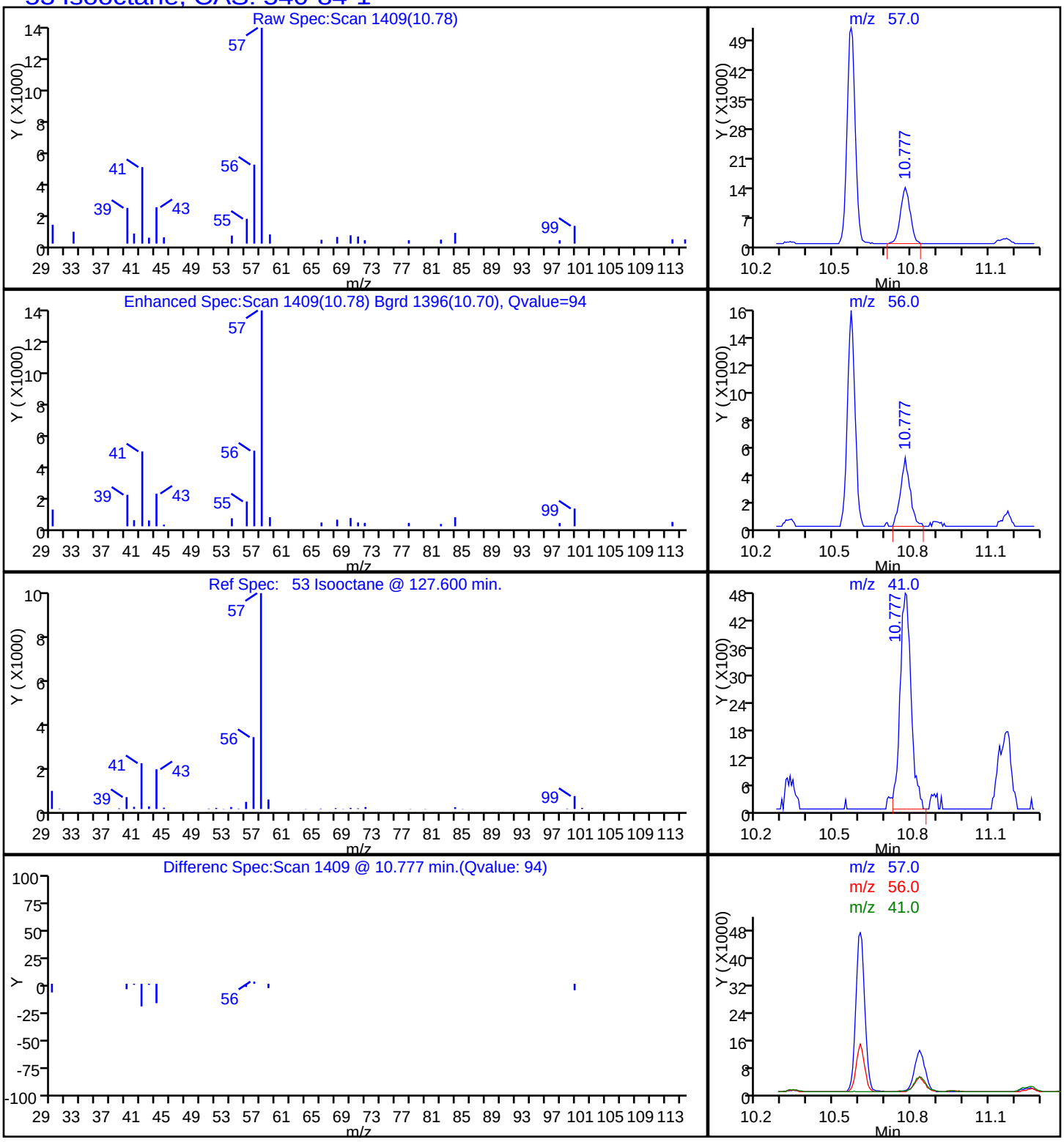
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



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TestAmerica Knoxville

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Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

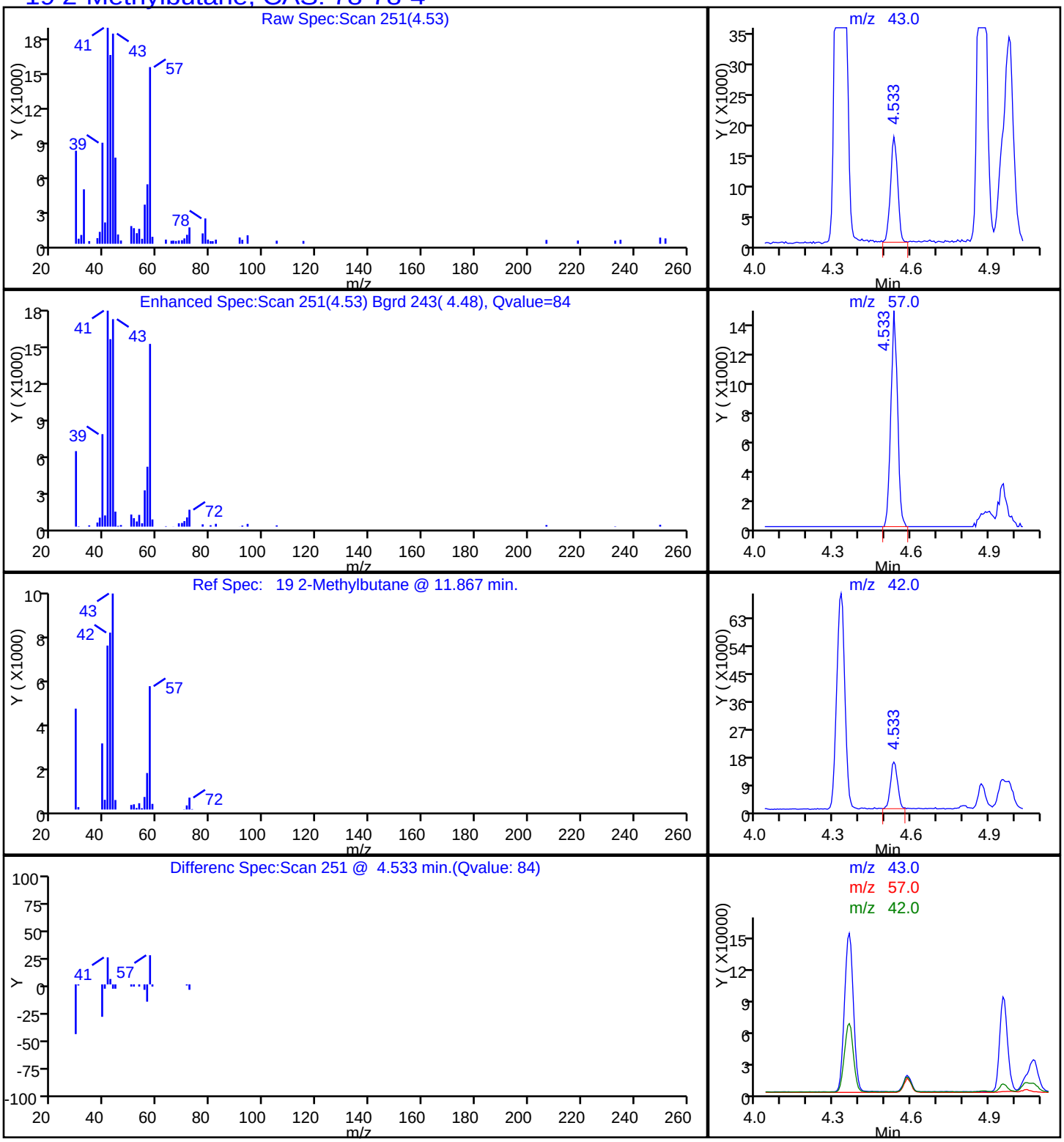
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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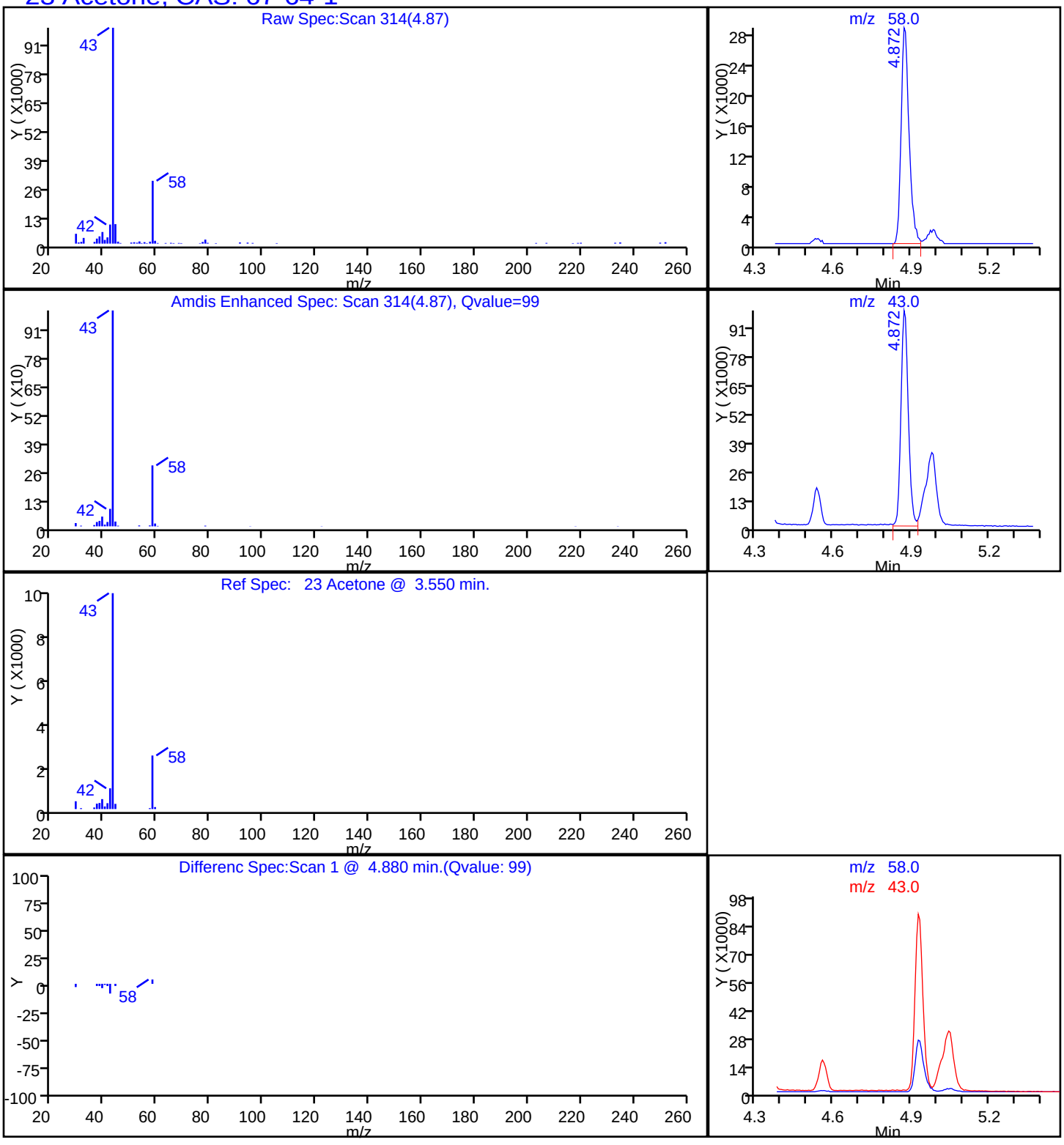
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

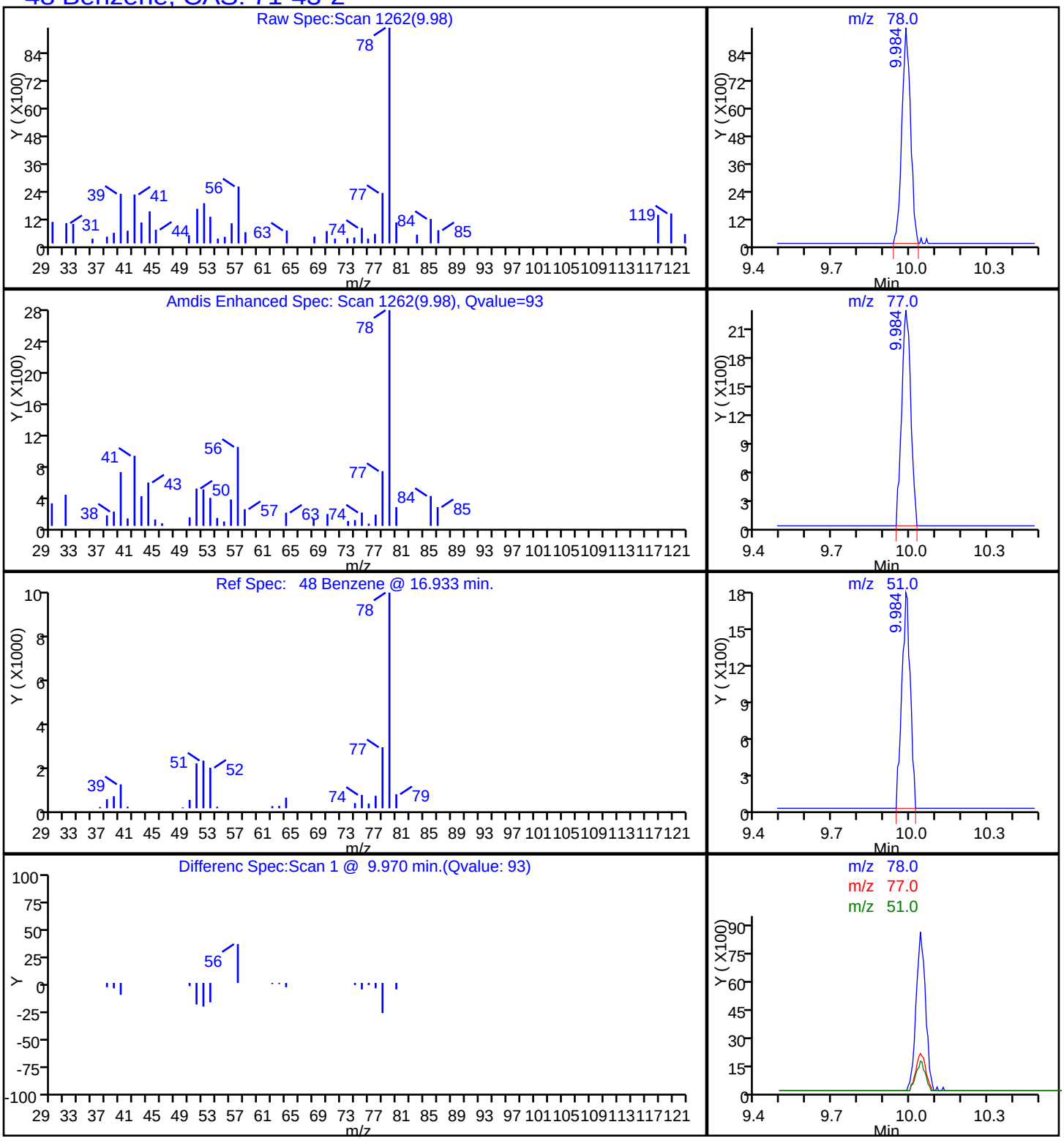
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



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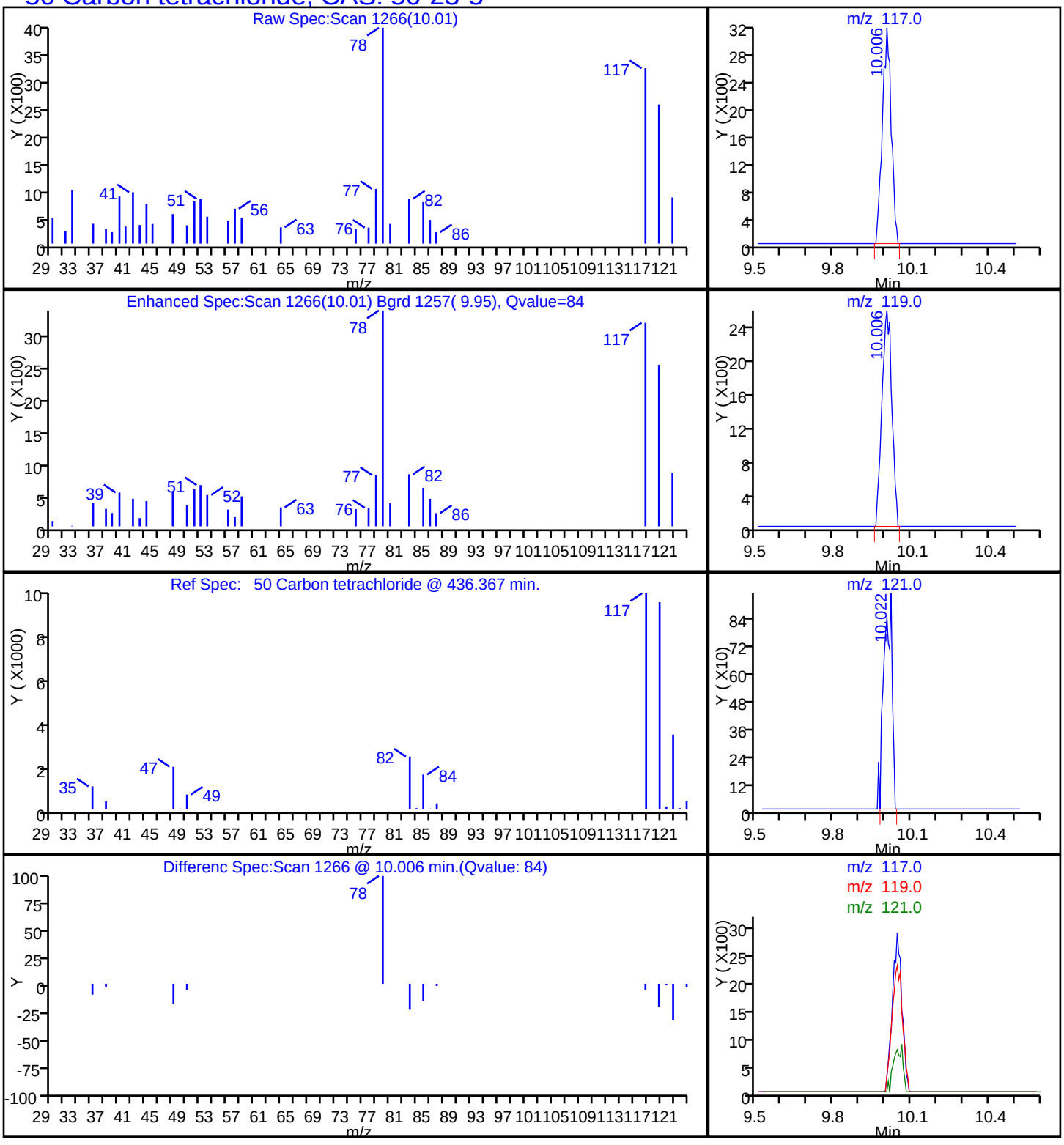
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

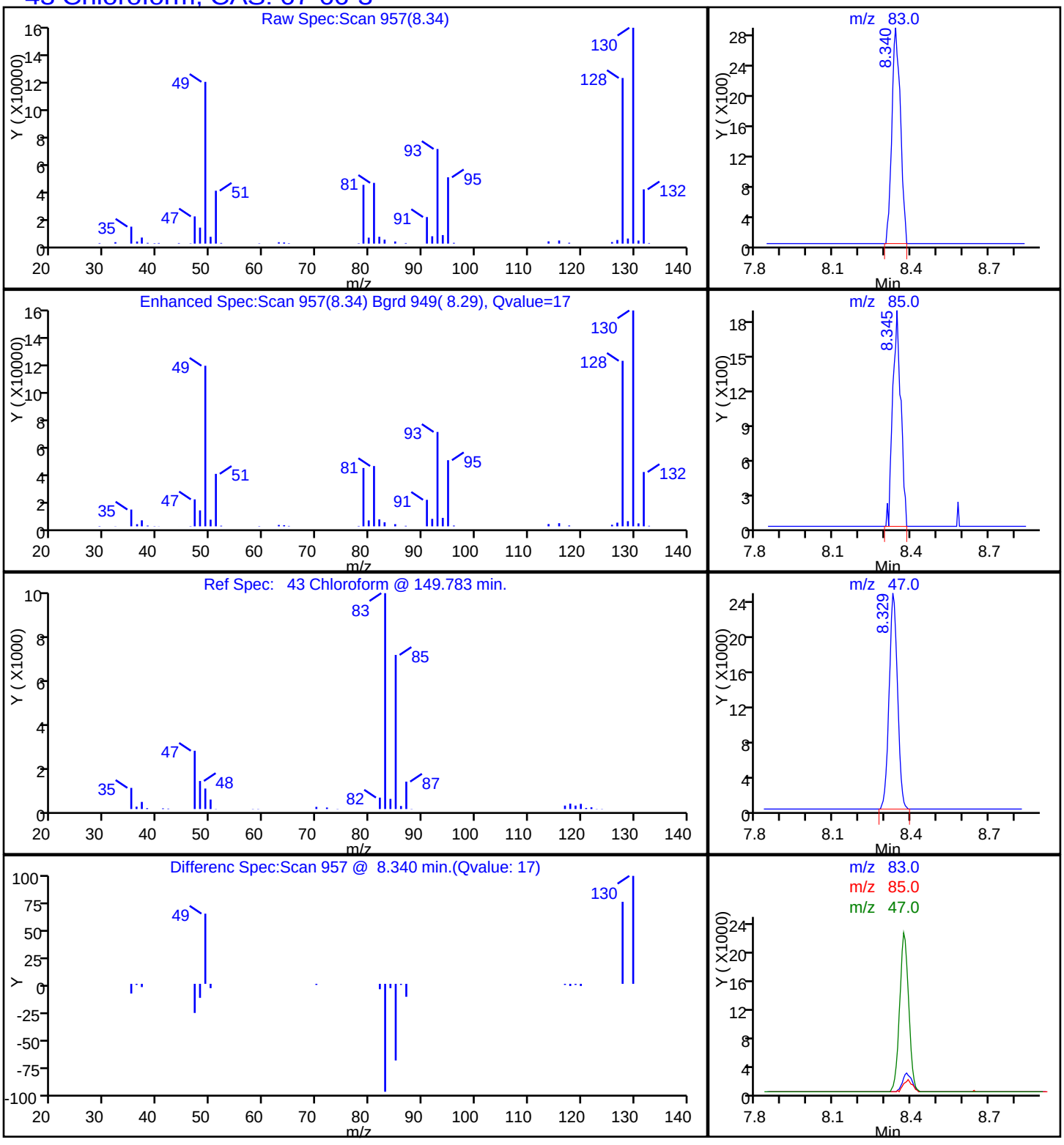
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



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Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

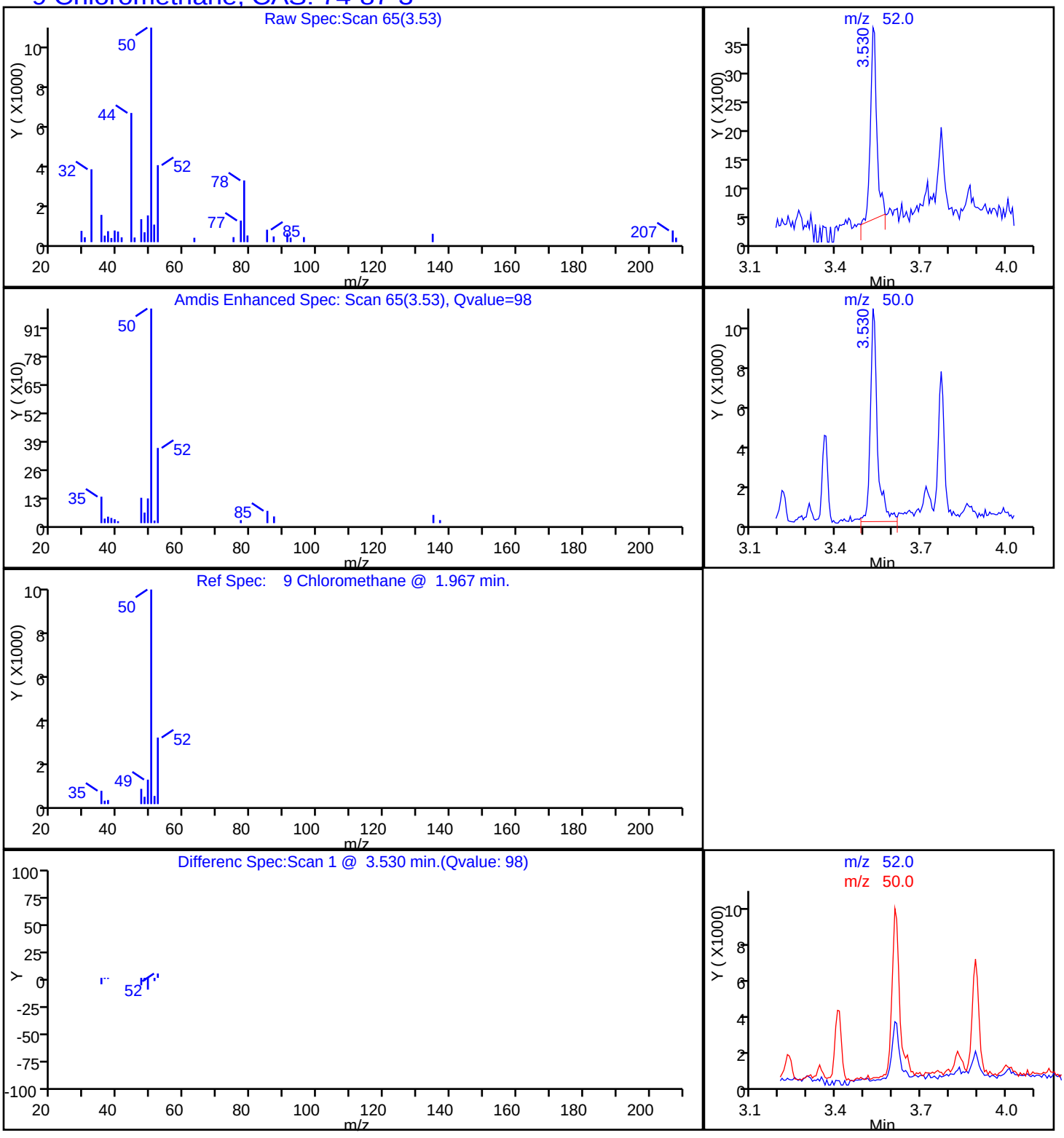
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

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Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

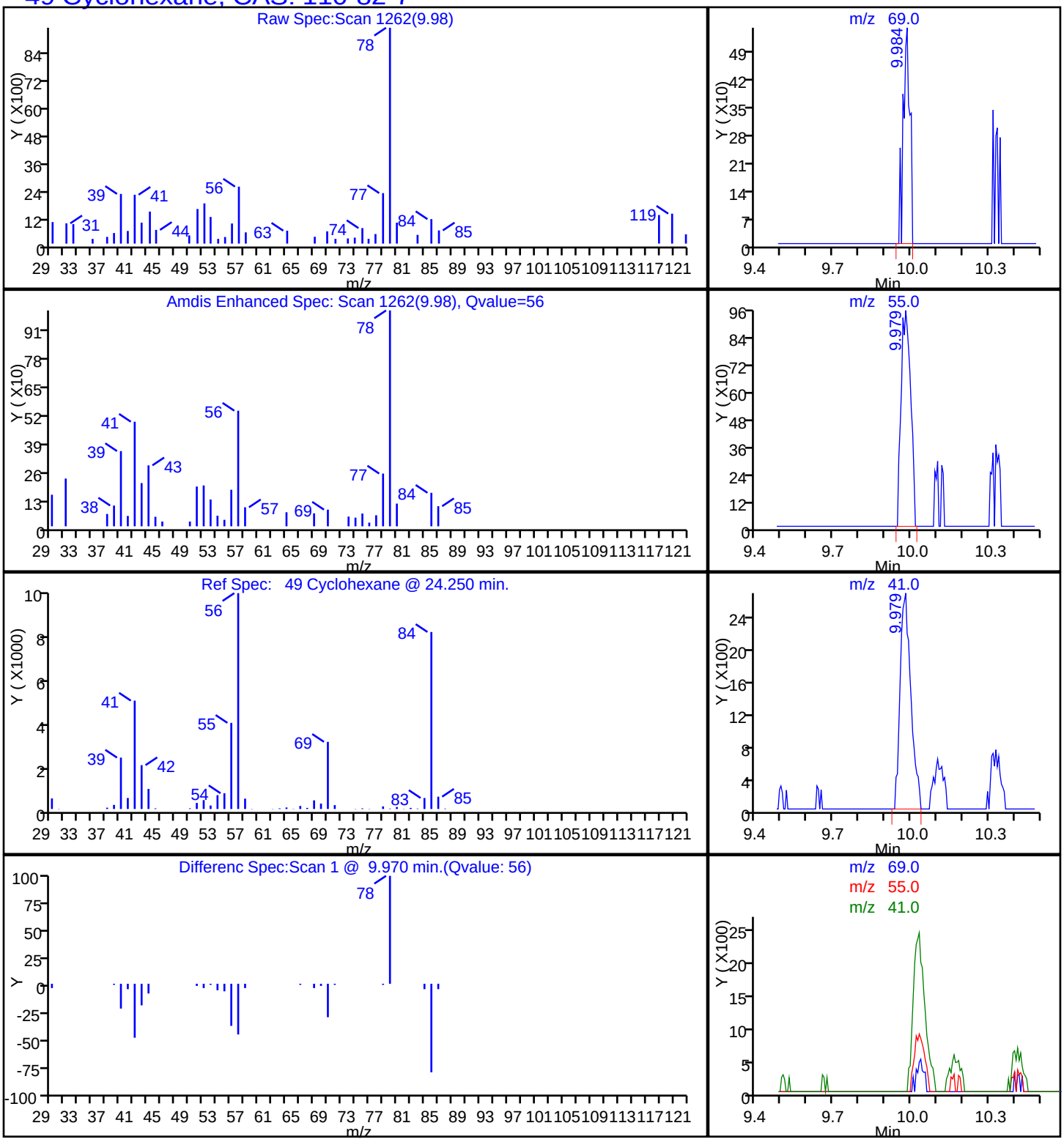
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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TestAmerica Knoxville

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Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

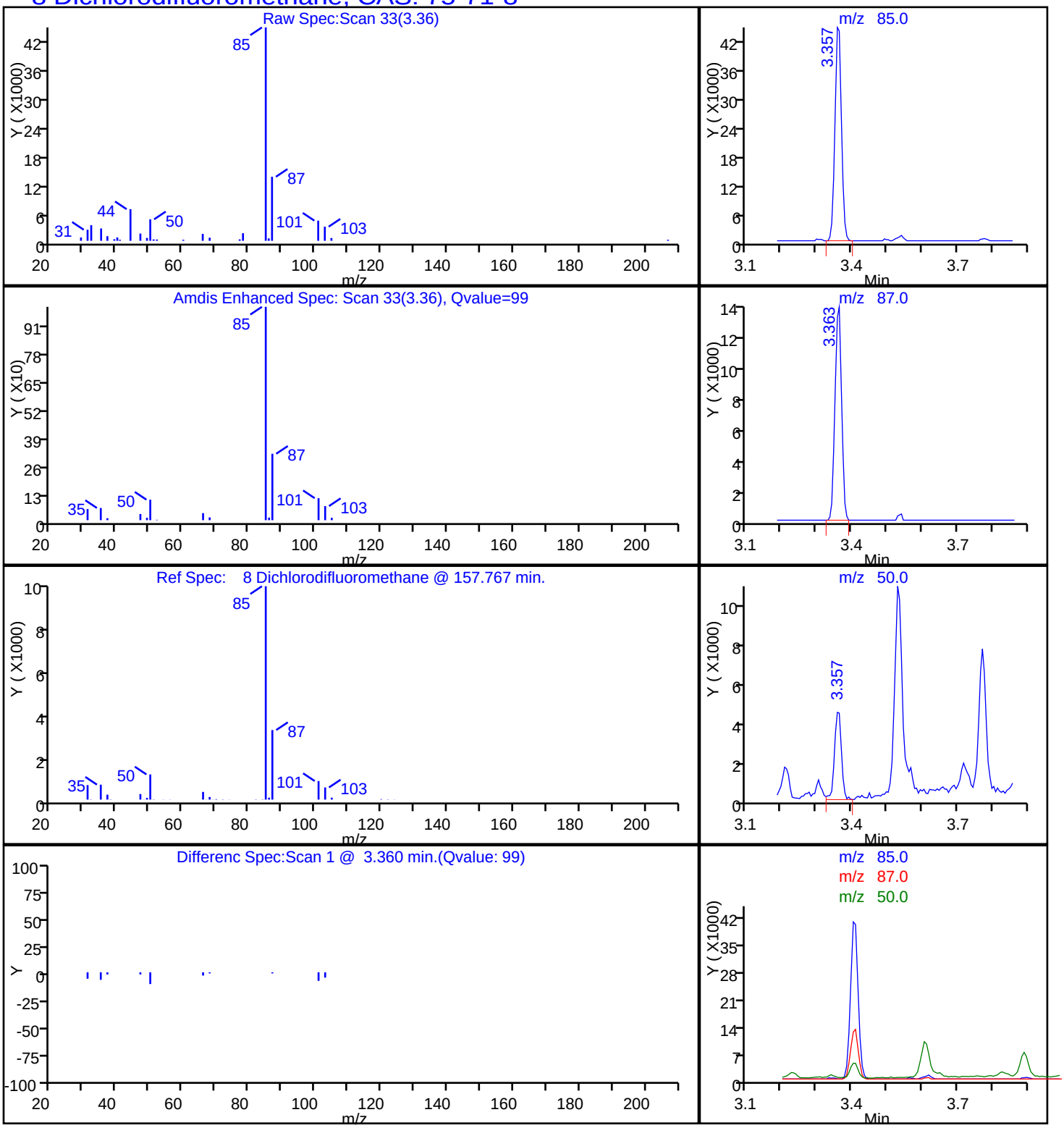
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

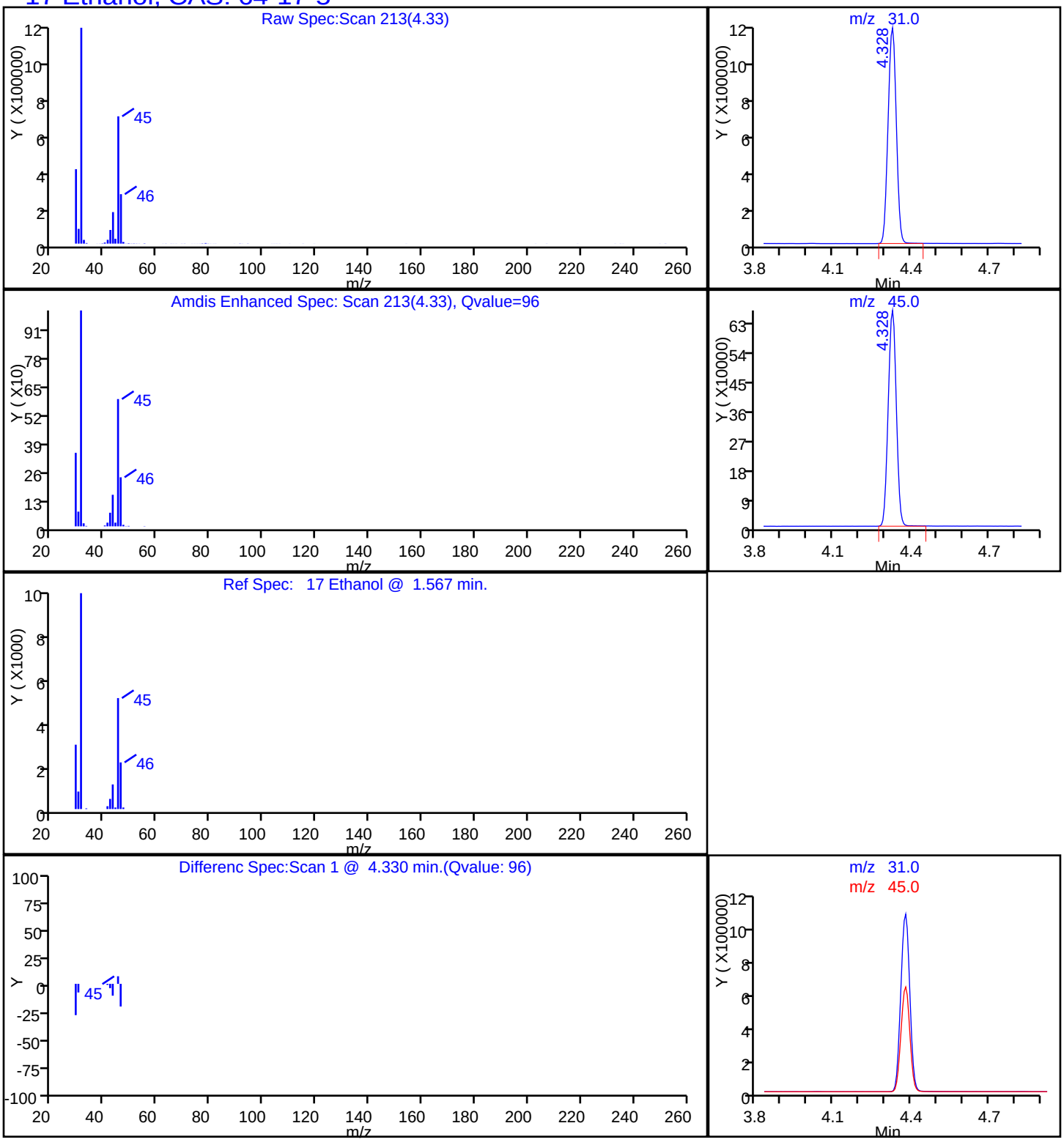
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5



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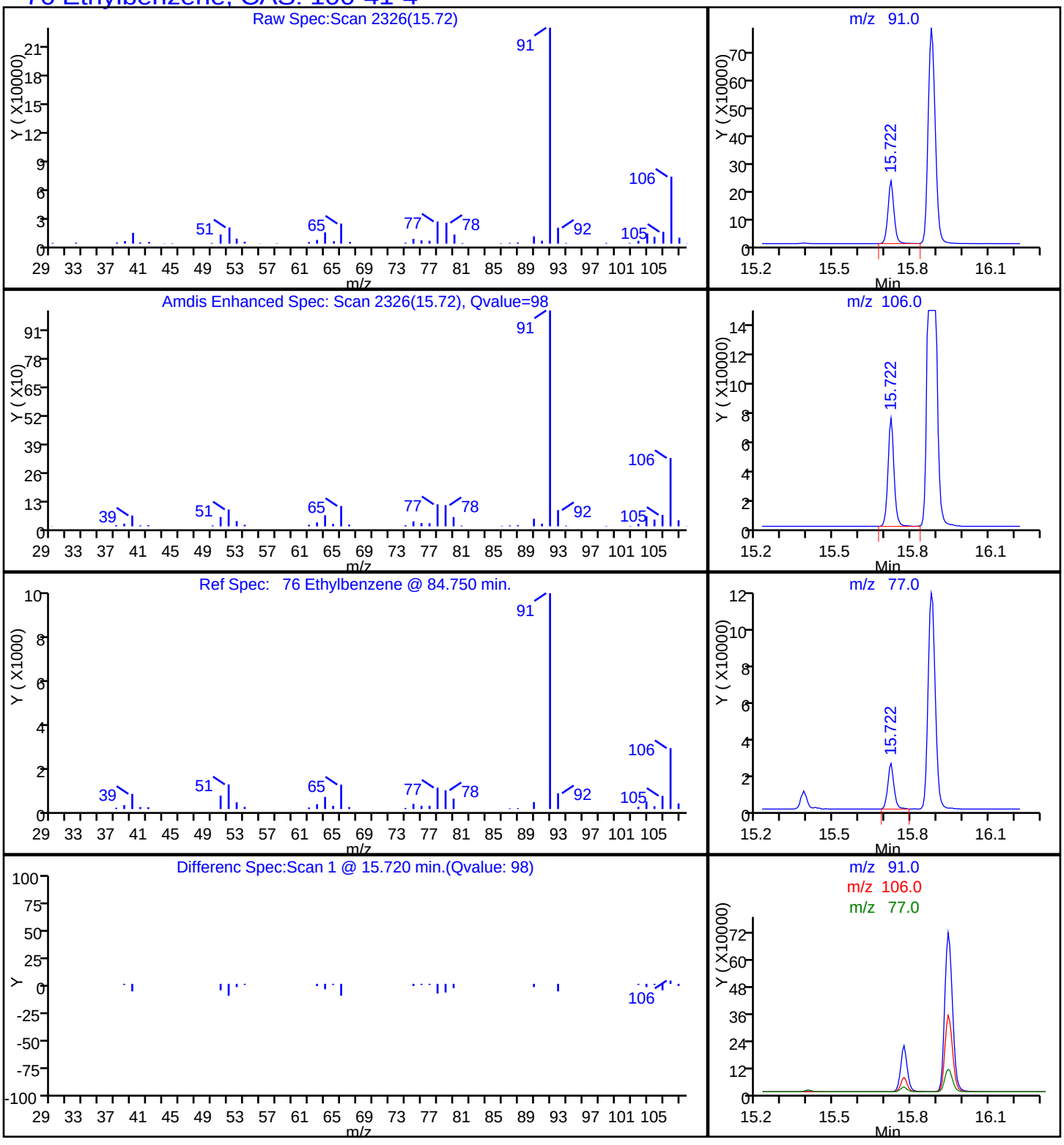
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



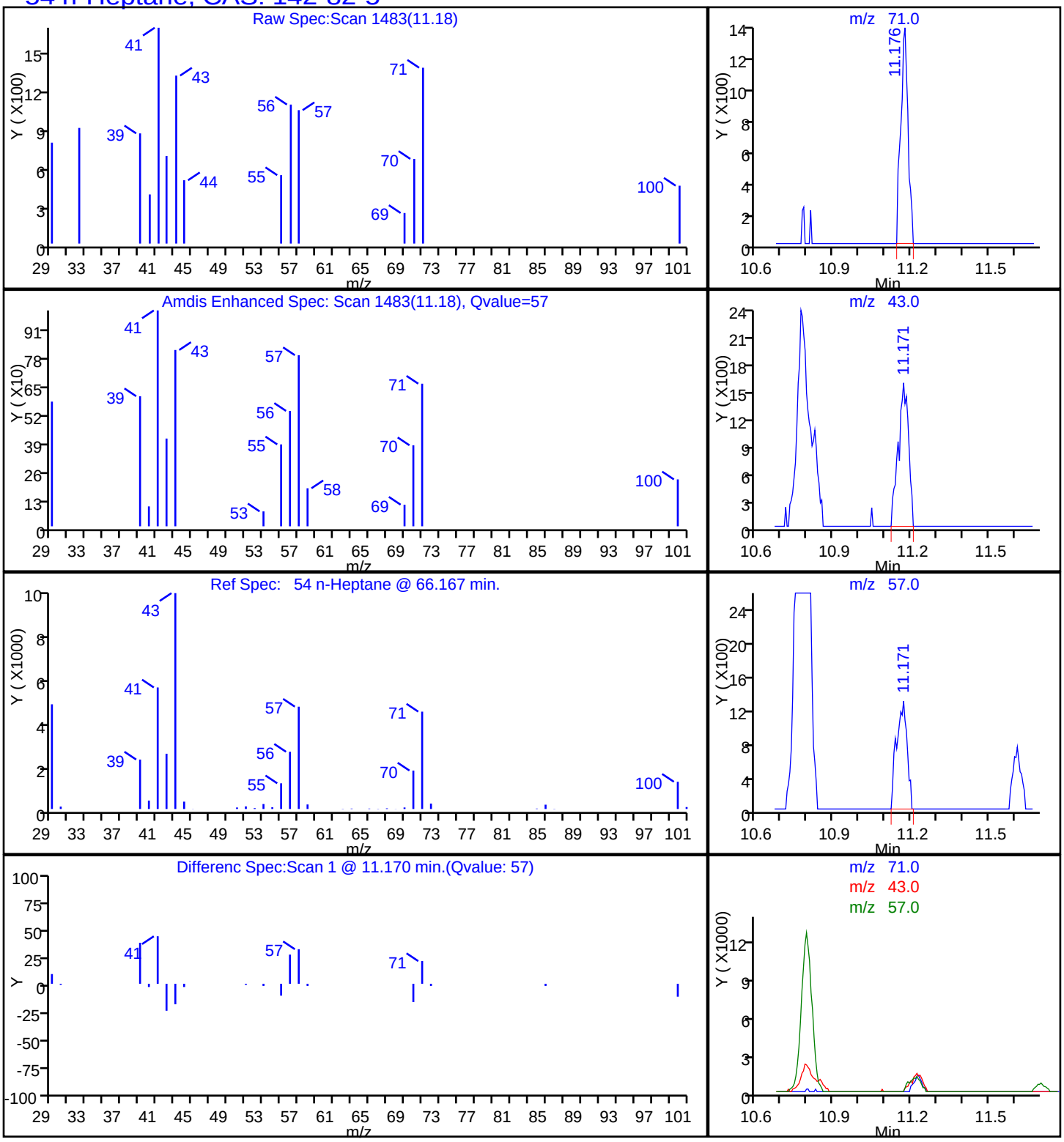
Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16
Client ID:	PCV-IA1FD-B9		
Operator ID:	7126	ALS Bottle#:	14 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

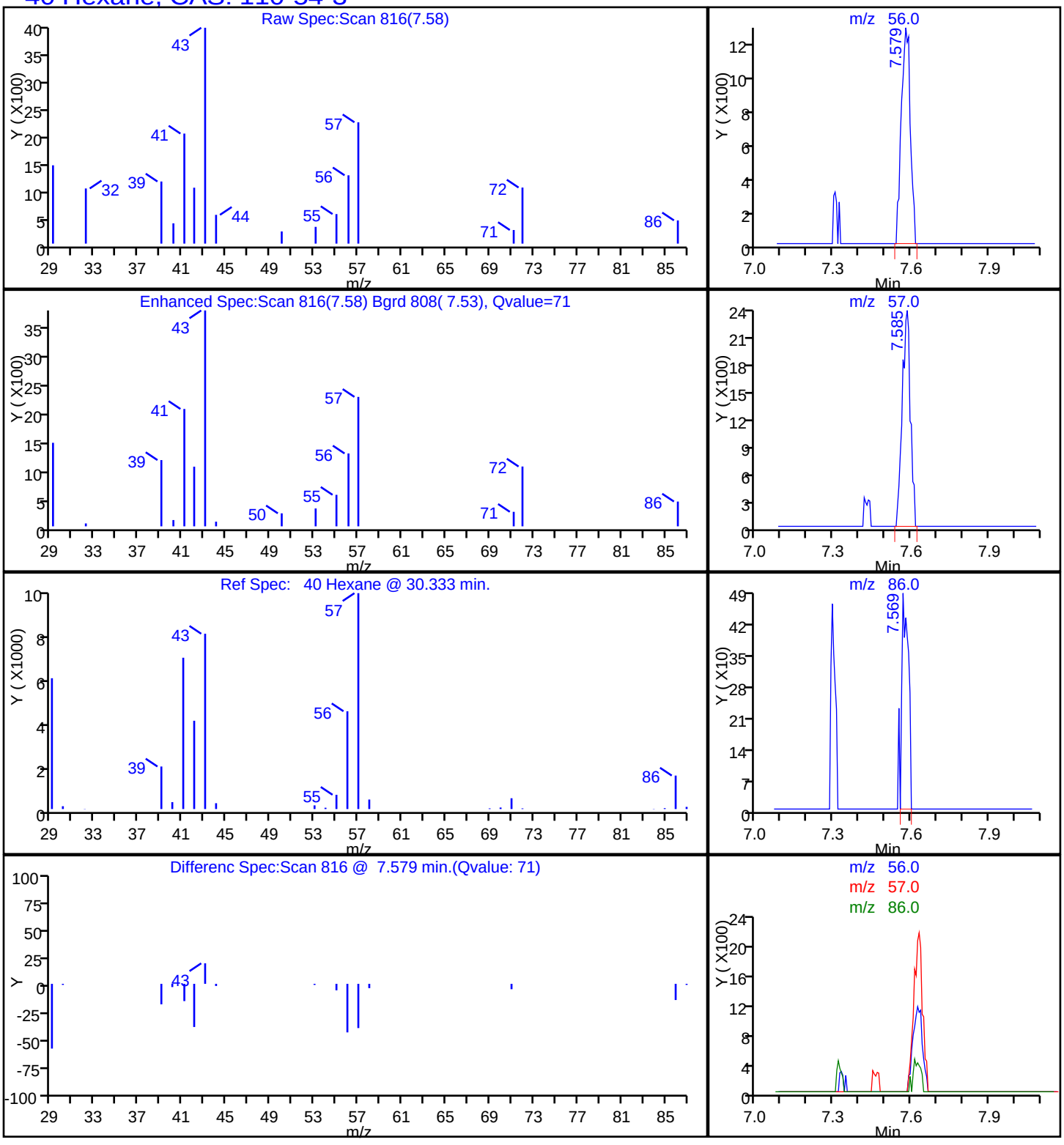
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 21-Mar-2014 09:43:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

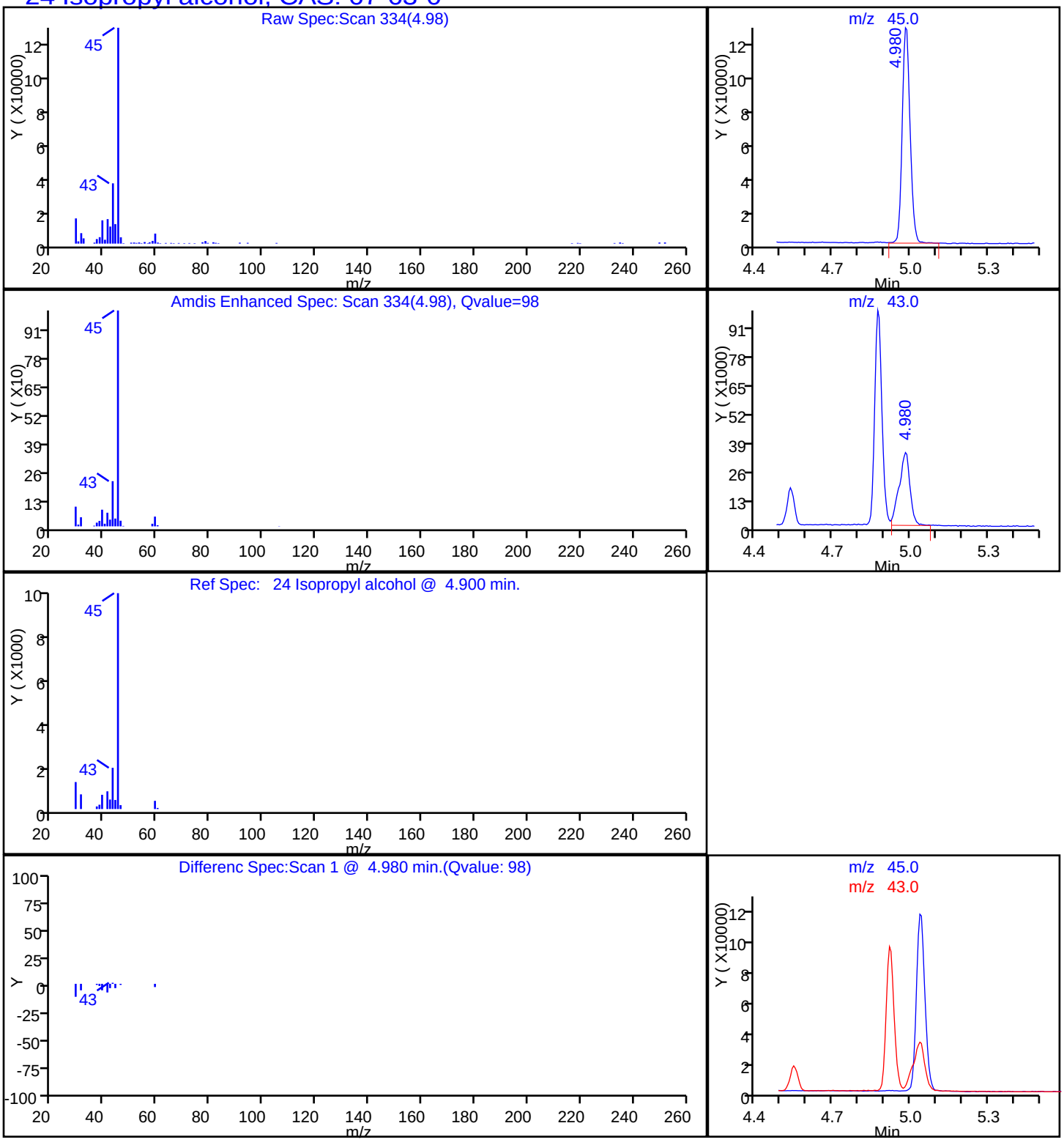
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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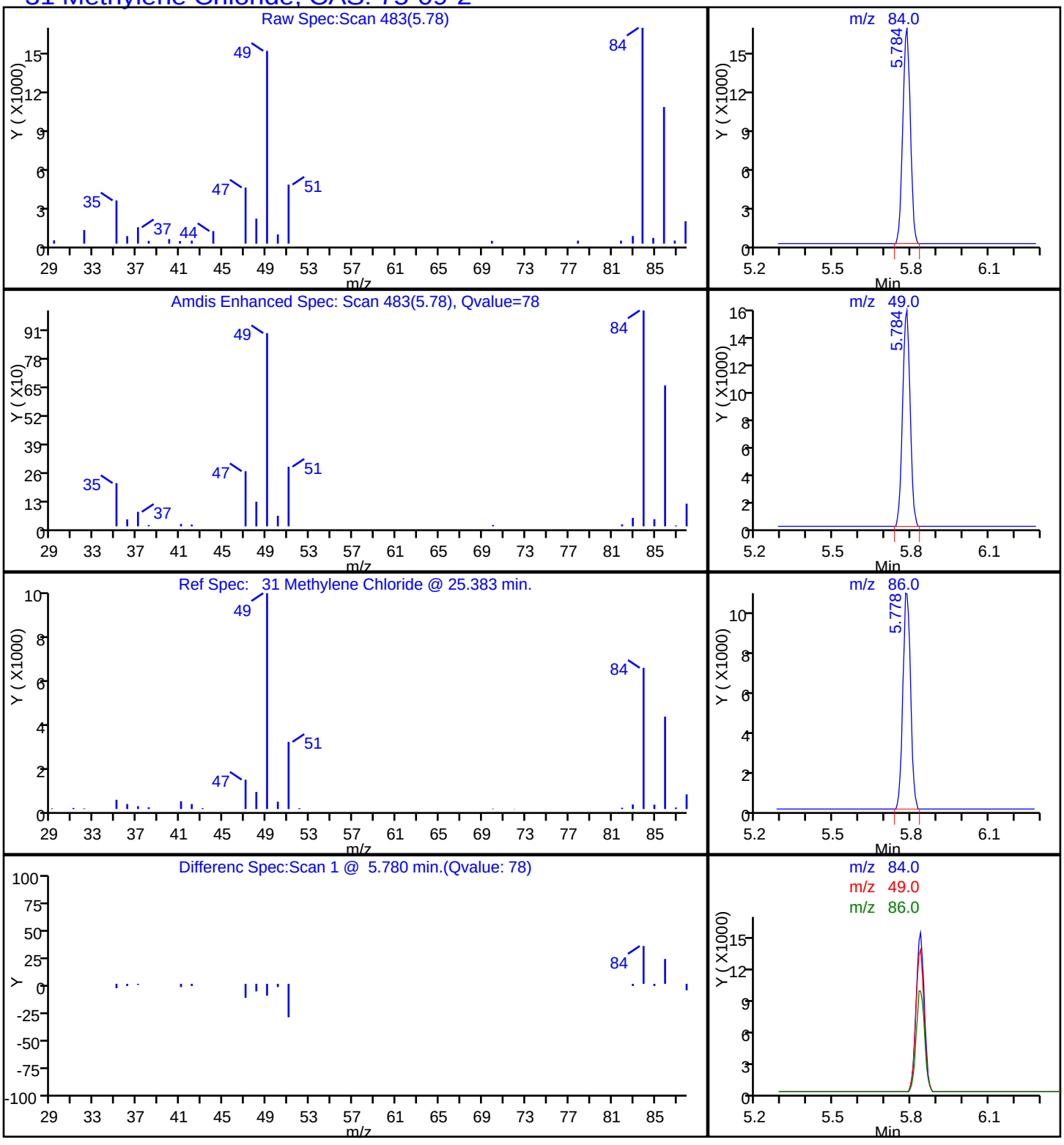
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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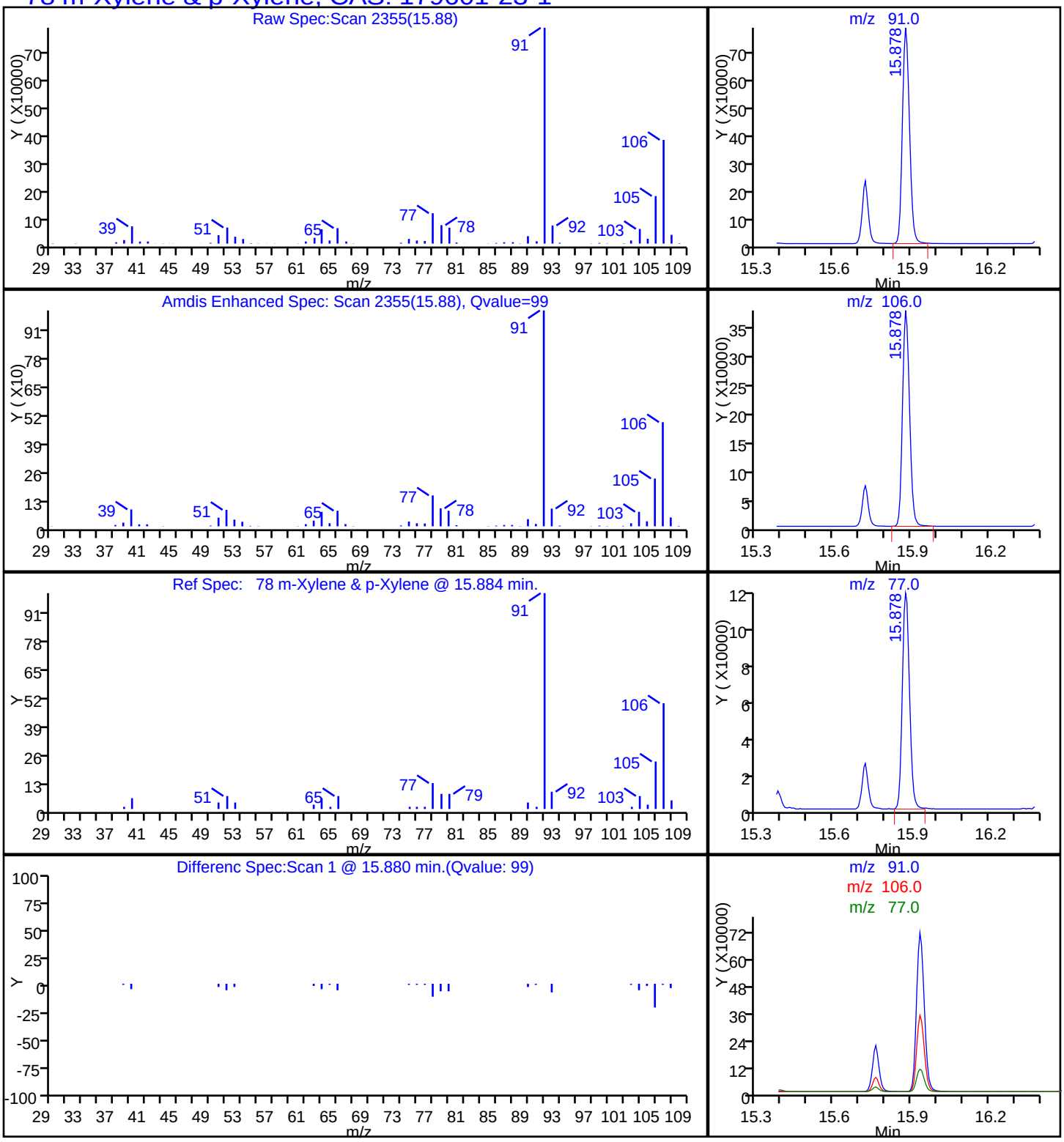
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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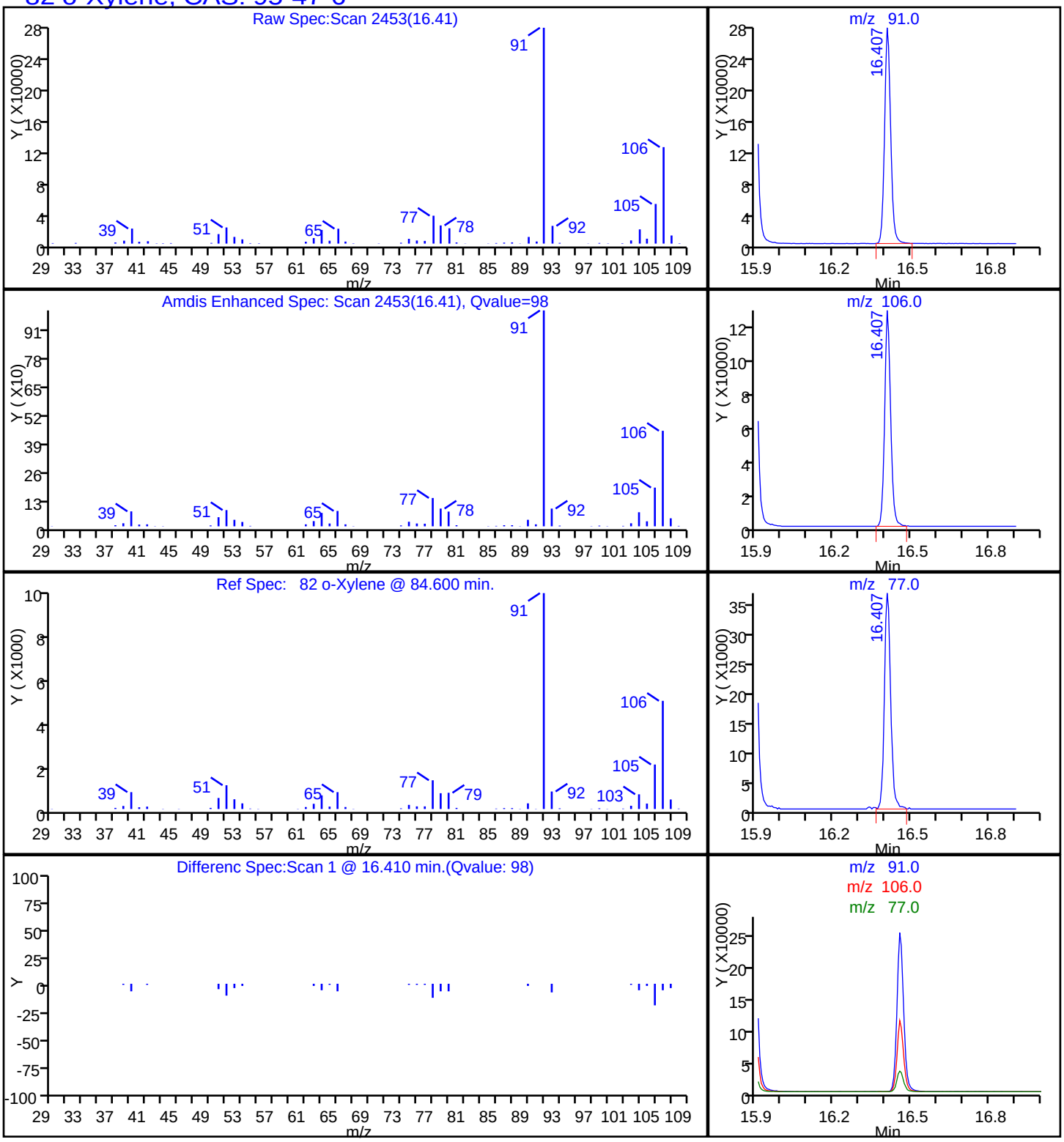
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date: 21-Mar-2014 02:19:30 Instrument ID: ME

Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16

Client ID: PCV-IA1FD-B9

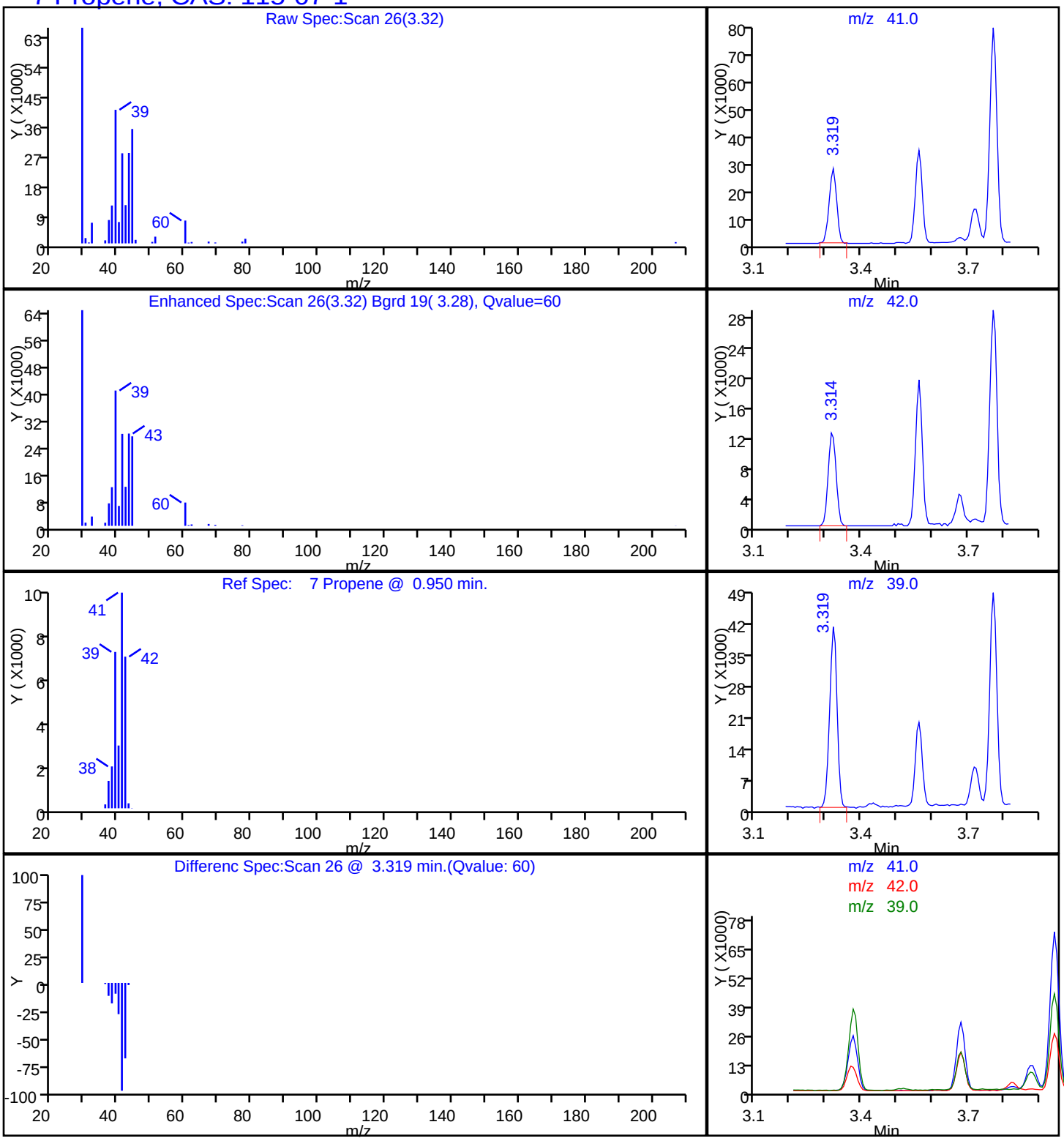
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



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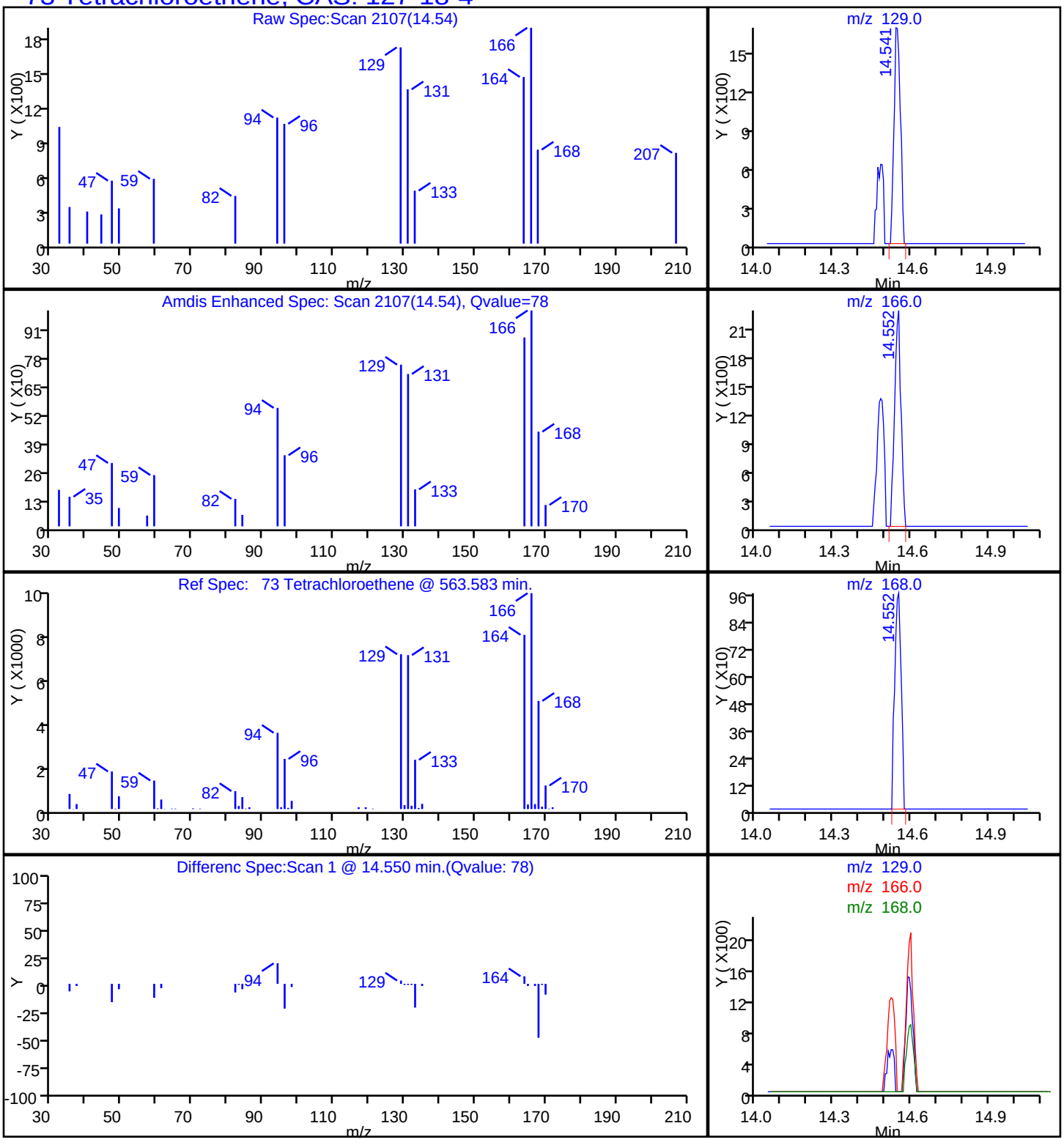
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D

Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



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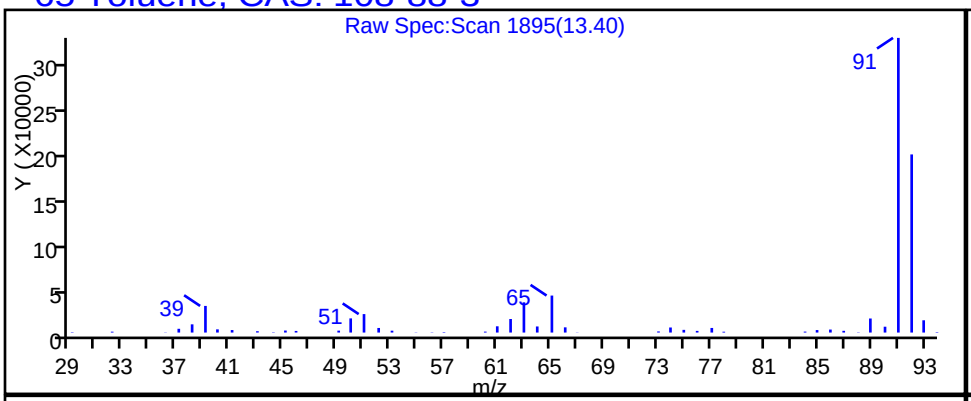
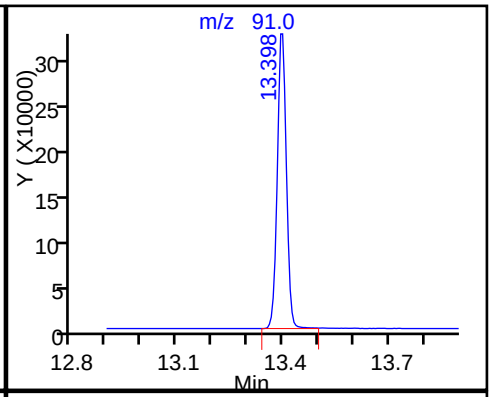
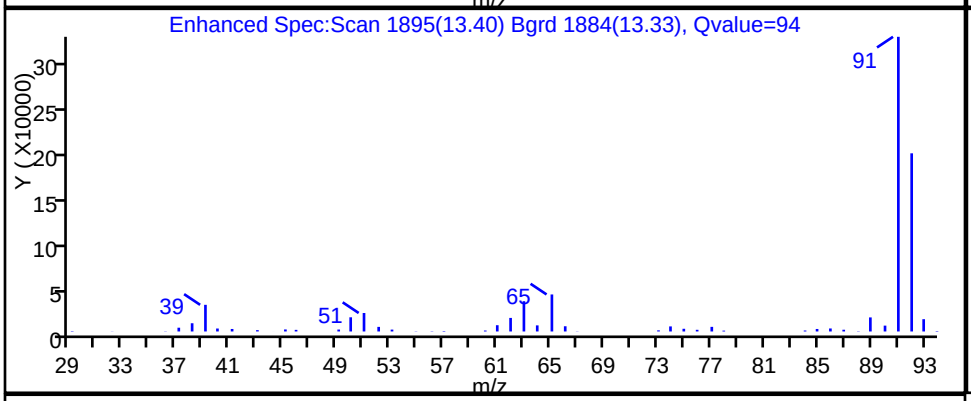
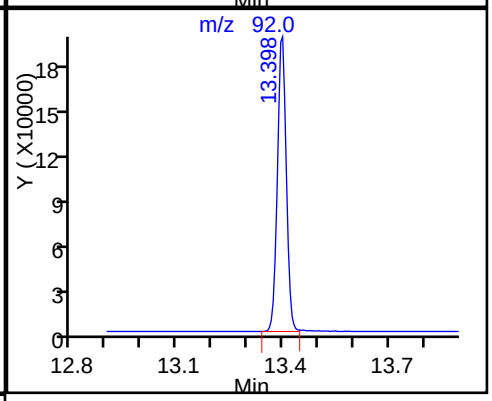
Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

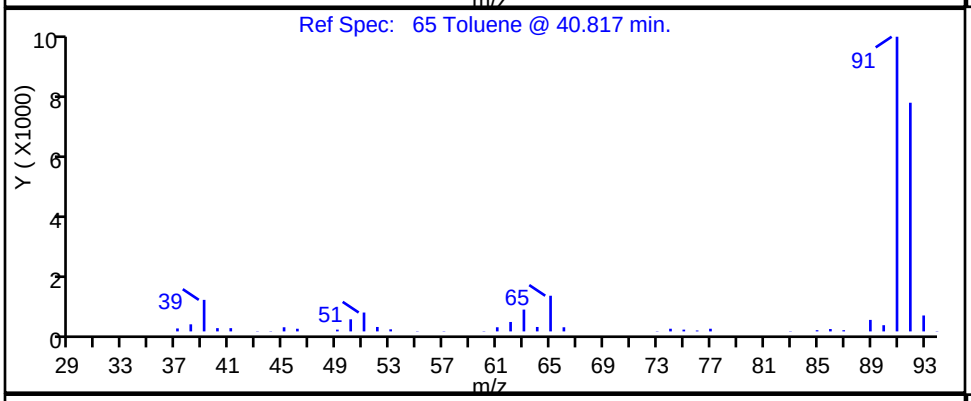
65 Toluene, CAS: 108-88-3

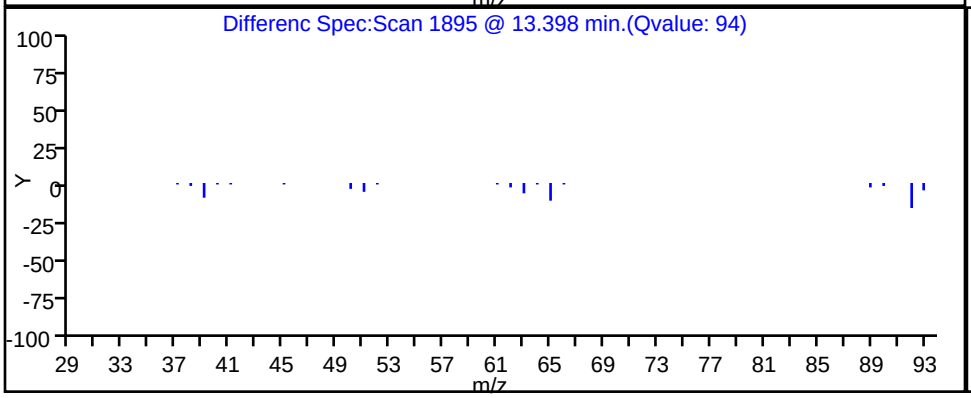


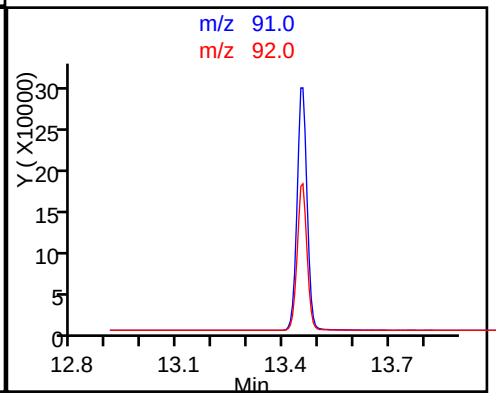








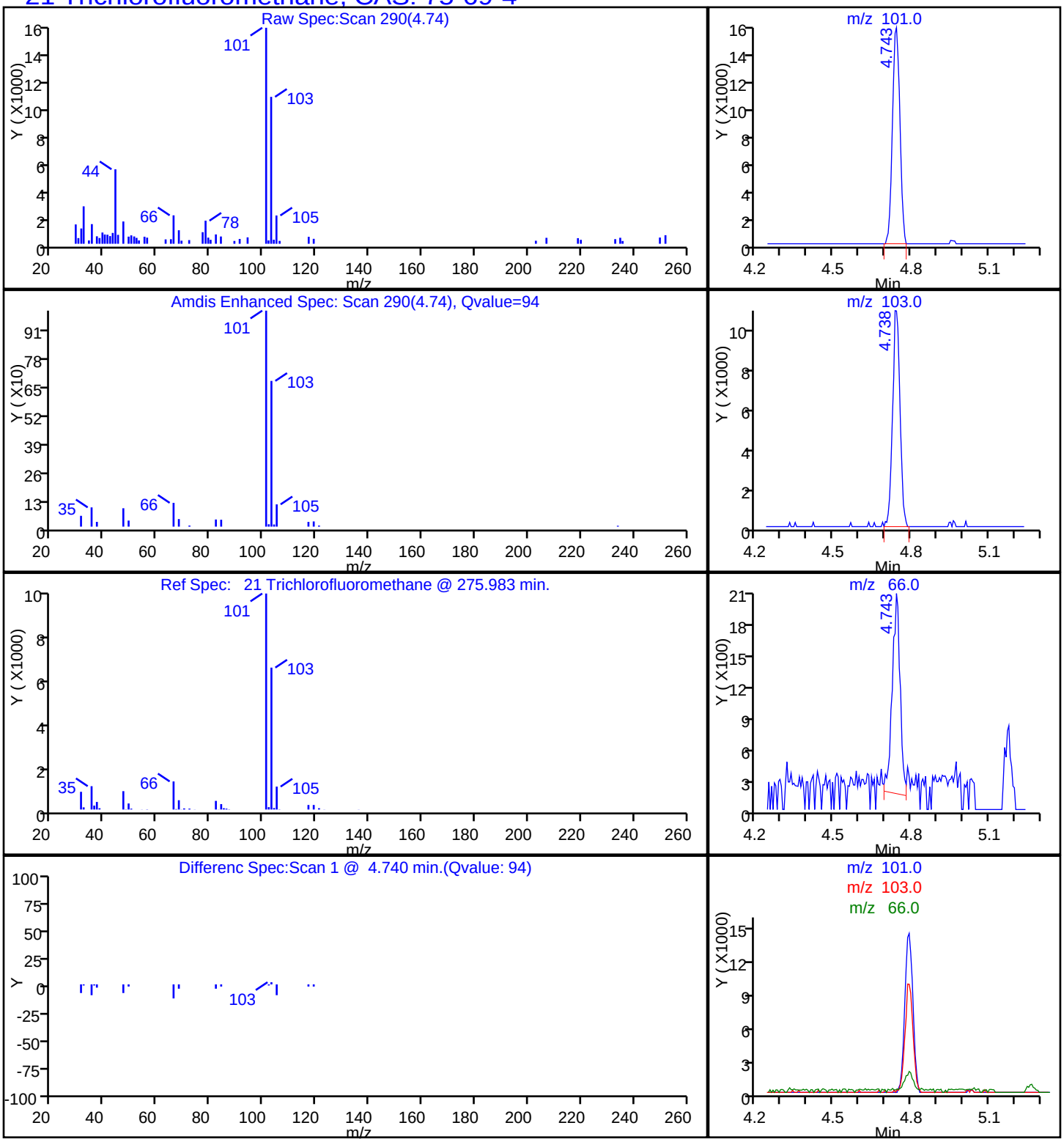




TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P114.D				
Injection Date:	21-Mar-2014 02:19:30	Instrument ID:	ME		
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16		
Client ID:	PCV-IA1FD-B9				
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 DL Lab Sample ID: 140-1060-16 DL

Matrix: Air Lab File ID: EC24P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 17:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	220		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B9 DL Lab Sample ID: 140-1060-16 DL

Matrix: Air Lab File ID: EC24P109.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 17:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	410		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P109.D
Lims ID: 140-1060-A-16 Lab Sample ID: 140-1060-16
Client ID: PCV-IA1FD-B9
Sample Type: Client
Inject. Date: 24-Mar-2014 17:39:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-16
Misc. Info.: E032414,TO155,,140-0000541-012
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:24:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	68	260943	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1246575	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1105290	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	947795	3.92	
7 Propene	41	3.319	3.314	0.005	78	18241	0.2779	
8 Dichlorodifluoromethane	85	3.362	3.357	0.005	99	27776	0.0962	
9 Chloromethane	52	3.530	3.530	0.0	96	2764	0.1200	
13 Butadiene	54	3.772	3.772	0.0	29	2472	0.0402	
17 Ethanol	31	4.317	4.312	0.005	97	1123202	43.0	
19 2-Methylbutane	43	4.538	4.533	0.005	81	14755	0.1615	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	92	16693	0.0577	
23 Acetone	58	4.878	4.878	0.0	92	29564	0.7480	
24 Isopropyl alcohol	45	4.975	4.969	0.006	98	113711	1.12	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.600	5.606	-0.006	63	2387	0.0133	
31 Methylene Chloride	84	5.789	5.789	0.0	70	16546	0.2219	
40 Hexane	56	7.574	7.579	-0.005	59	1189	0.0171	
48 Benzene	78	9.984	9.990	-0.006	84	8330	0.0332	
53 Isooctane	57	10.777	10.782	-0.005	90	14414	0.0372	
65 Toluene	91	13.398	13.398	0.0	93	210739	0.7117	
76 Ethylbenzene	91	15.722	15.722	0.0	99	132988	0.3504	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	606328	2.03	
82 o-Xylene	91	16.412	16.407	0.005	98	158132	0.4901	

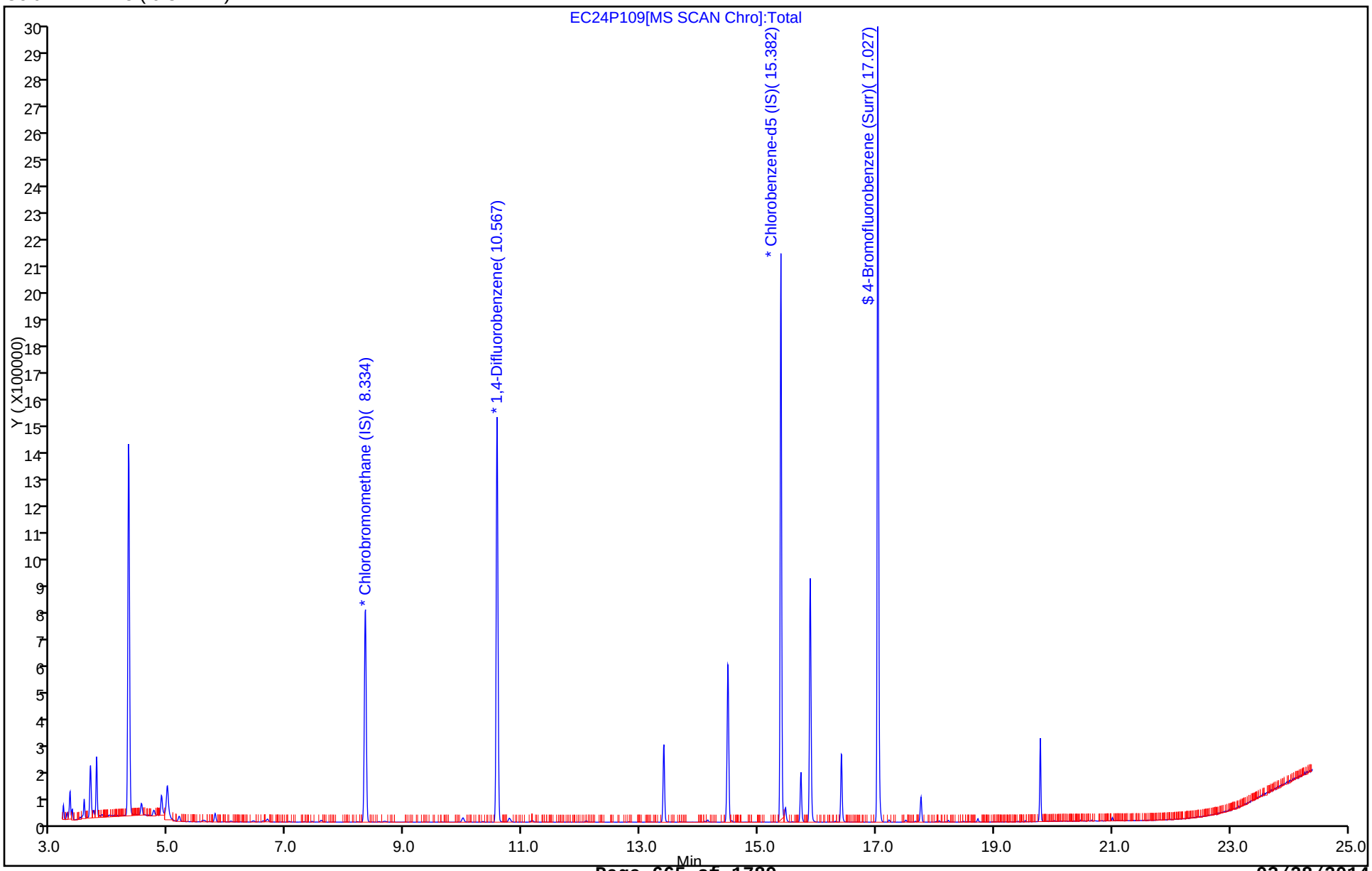
Report Date: 25-Mar-2014 07:24:26 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P109.D

Injection Date:	24-Mar-2014 17:39:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16	Worklist Smp#:	12
Client ID:	PCV-IA1FD-B9				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



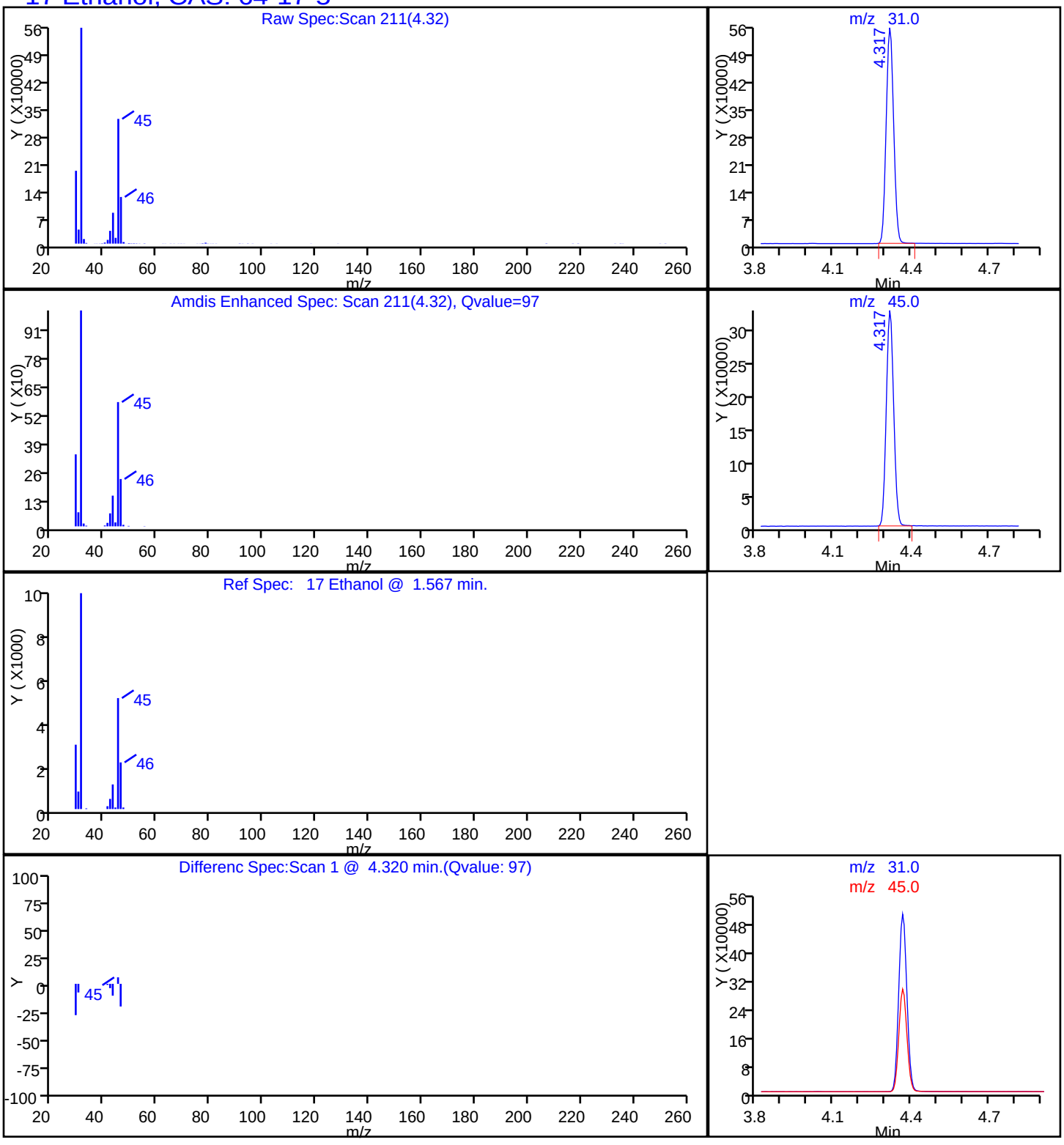
Report Date: 25-Mar-2014 07:24:26 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P109.D

Injection Date:	24-Mar-2014 17:39:30	Instrument ID:	ME
Lims ID:	140-1060-A-16	Lab Sample ID:	140-1060-16
Client ID:	PCV-IA1FD-B9		
Operator ID:	7126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.13	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.13	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.087	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.79		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.21		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	0.049	J	0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.12	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.54		0.20	0.068
64-17-5	Ethanol	46.07	45		2.0	2.0
100-41-4	Ethylbenzene	106.17	17		0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.086	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.5	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.57		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	69		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	24		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.052	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	4.0		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.62	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.29	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.41	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	5.8	J	12	3.3
71-43-2	Benzene	78.11	0.68		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	0.19	J	0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.58	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.7		0.99	0.34
64-17-5	Ethanol	46.07	86		3.8	3.8
100-41-4	Ethylbenzene	106.17	73		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.30	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.0		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	300		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	110		0.87	0.26
115-07-1	Propene	42.08	1.9	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.35	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	15		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 Lab Sample ID: 140-1060-17

Matrix: Air Lab File ID: EC20P115.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D
Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17
Client ID: PCV-IA2-B9
Sample Type: Client
Inject. Date: 21-Mar-2014 03:04:30 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-17
Misc. Info.: E032014,TO155,,140-0000533-019
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:45:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:45:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.345	-0.016	68	252638	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1146665	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1008035	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	878282	3.98	
7 Propene	41	3.319	3.314	0.005	74	27777	0.4371	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	99	59982	0.2146	
9 Chloromethane	52	3.530	3.530	0.0	97	5179	0.2322	
13 Butadiene	54	3.772	3.772	0.0	29	3156	0.0530	
15 Bromomethane	94	4.074	4.080	-0.006	57	1830	0.0197	
17 Ethanol	31	4.317	4.317	0.0	97	459736	18.2	
19 2-Methylbutane	43	4.533	4.538	-0.005	84	28002	0.3165	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	93	32016	0.1142	
23 Acetone	58	4.878	4.883	-0.005	92	37055	0.9684	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	89	57866	0.5874	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	79	4921	0.0284	
31 Methylene Chloride	84	5.784	5.789	-0.005	72	16469	0.2281	
40 Hexane	56	7.574	7.585	-0.011	72	2310	0.0344	
43 Chloroform	83	8.340	8.356	-0.016	23	10298	0.0476	
48 Benzene	78	9.984	9.995	-0.011	94	19748	0.0856	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	78	7181	0.0324	
53 Isooctane	57	10.777	10.788	-0.011	90	12363	0.0347	
54 n-Heptane	71	11.171	11.182	-0.011	56	1683	0.0193	
65 Toluene	91	13.398	13.398	0.0	93	436396	1.62	
73 Tetrachloroethene	129	14.552	14.552	0.0	79	2375	0.0206	
76 Ethylbenzene	91	15.722	15.722	0.0	98	2312854	6.68	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	92	7484040	27.5	
82 o-Xylene	91	16.407	16.412	-0.005	99	2865838	9.74	
88 4-Ethyltoluene	105	17.706	17.706	0.005	86	7635	0.0205	7M
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	83	15638	0.0506	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

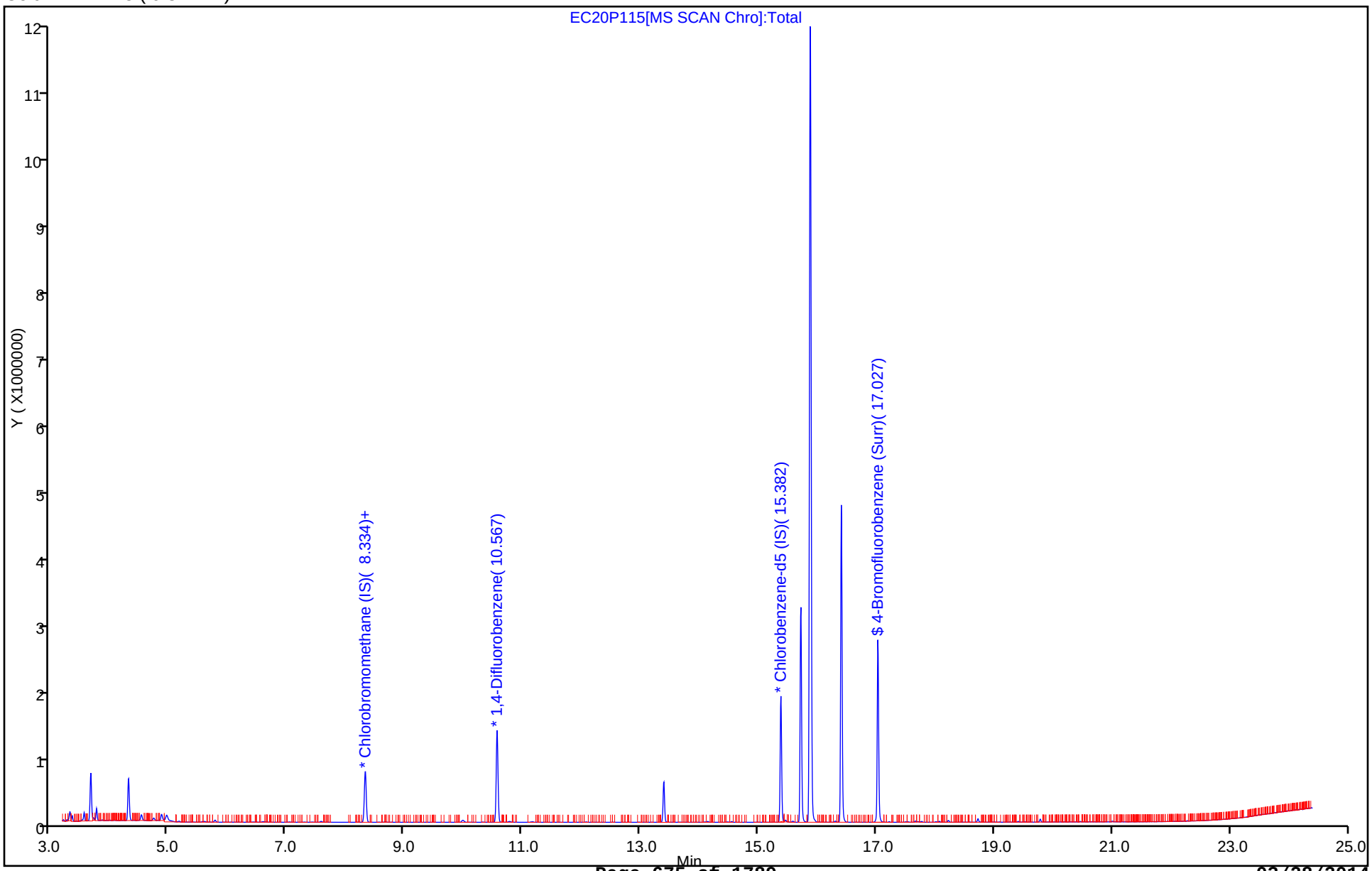
Review Flags
M - Manually Integrated

Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17	Worklist Smp#:	19
Client ID:	PCV-IA2-B9				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

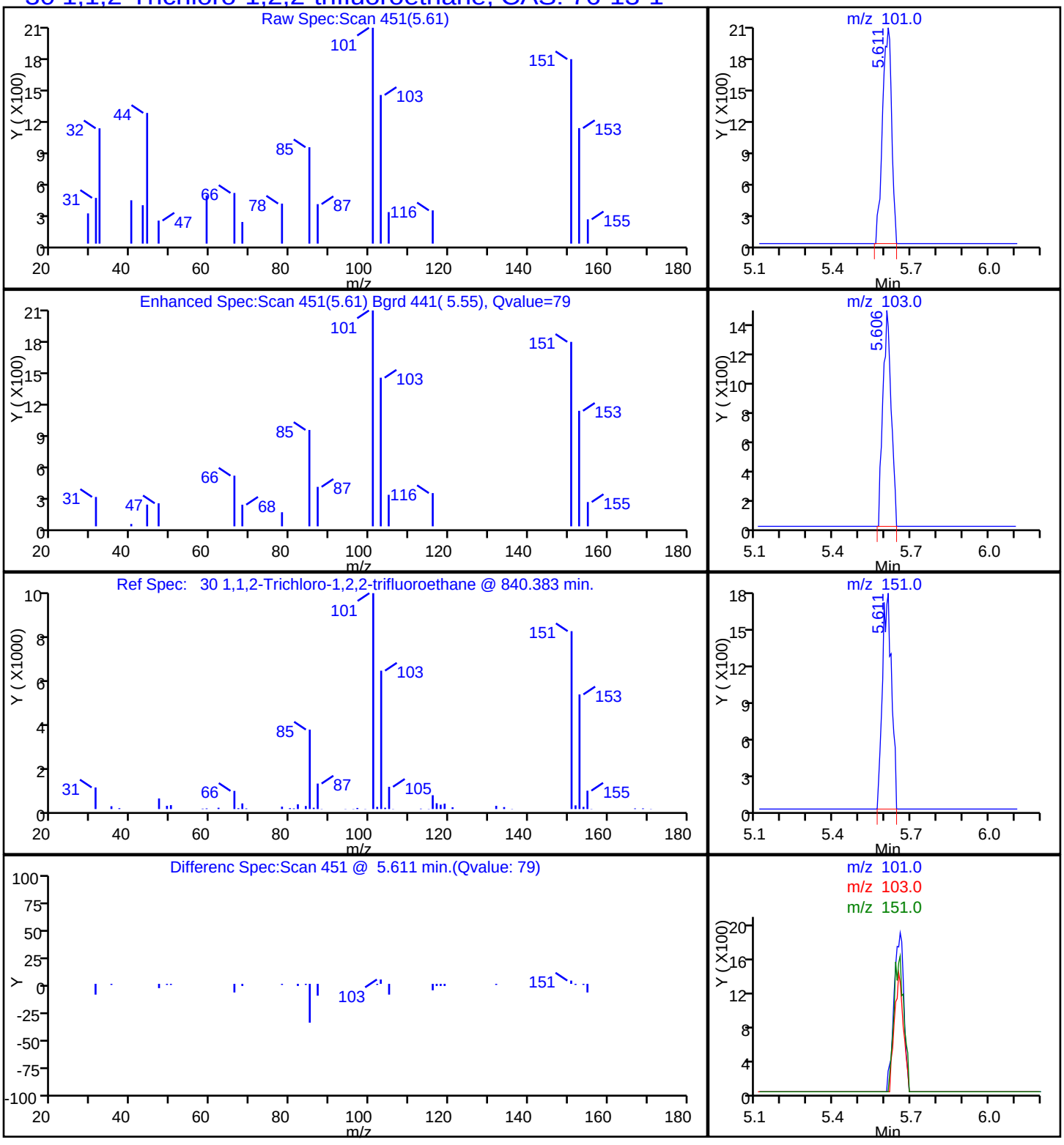
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

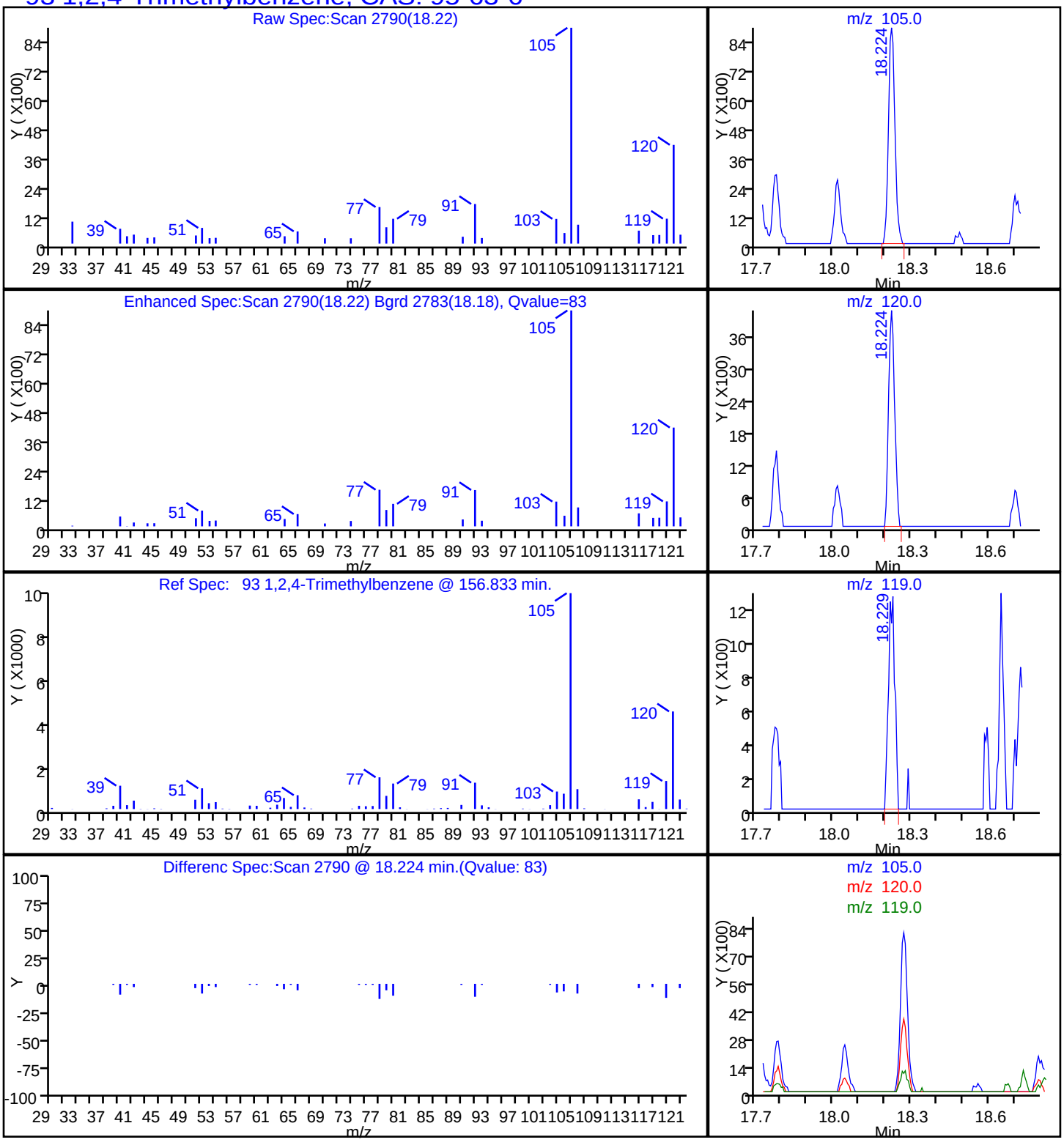


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

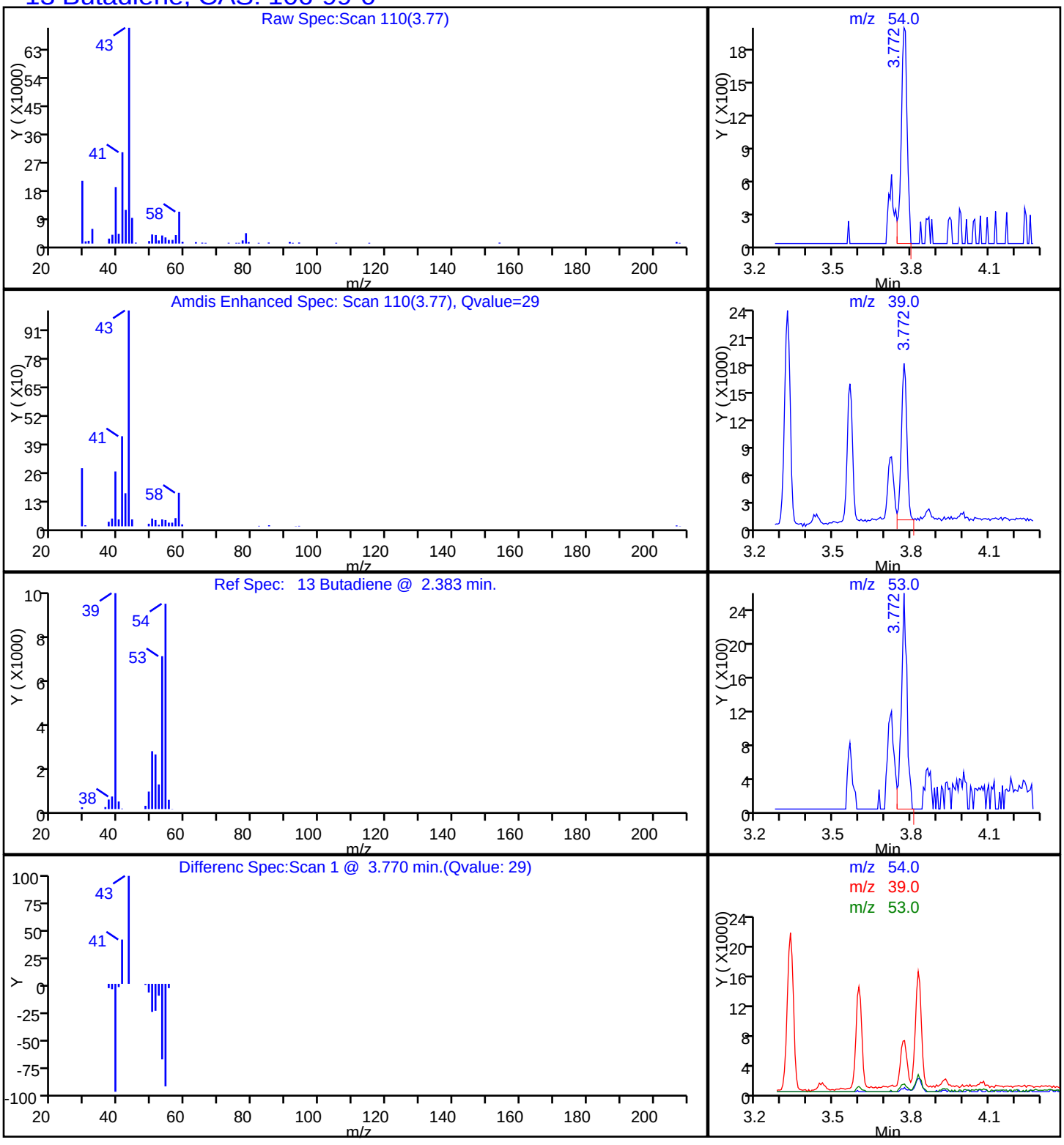


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

13 Butadiene, CAS: 106-99-0



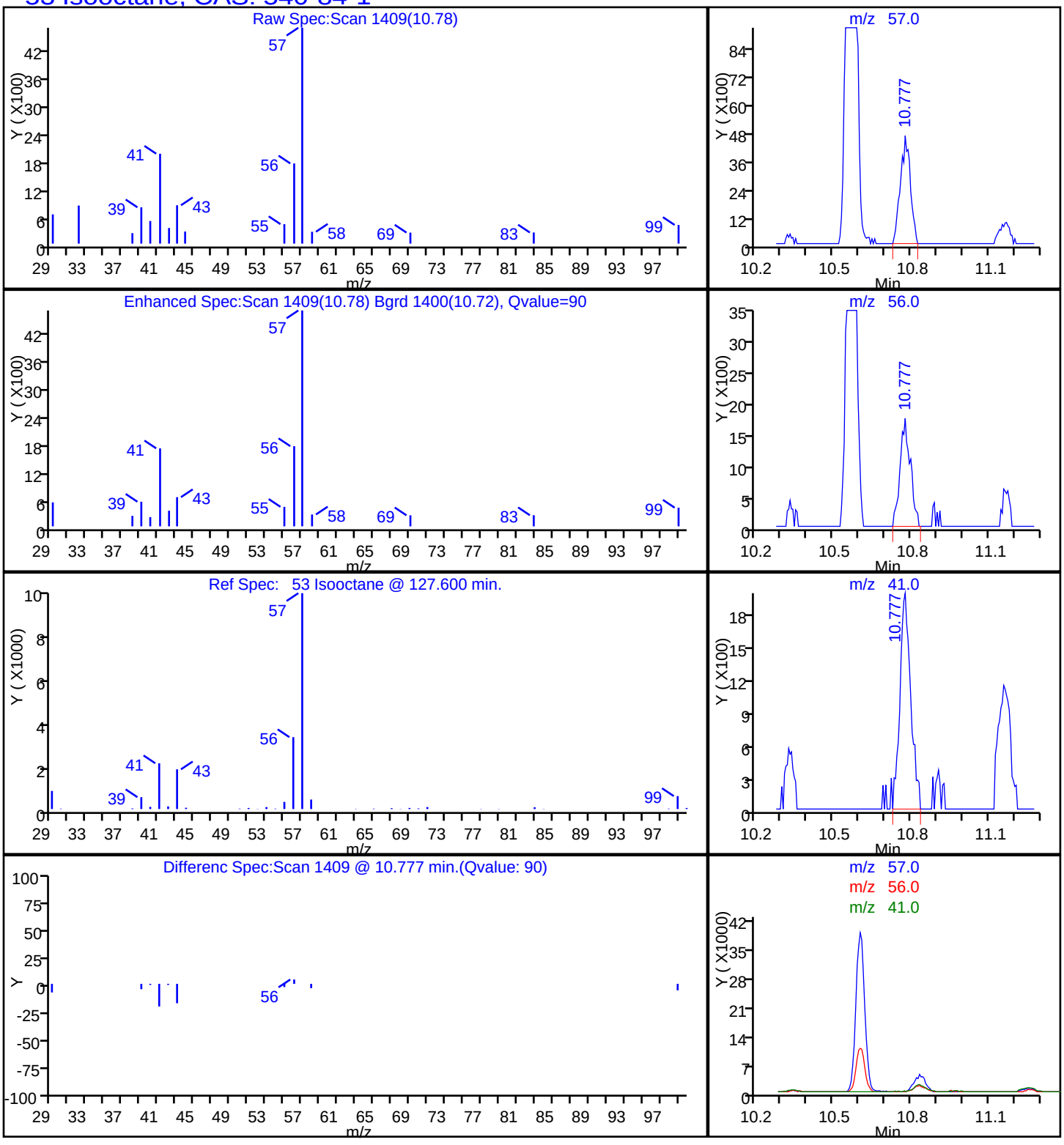
Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17
Client ID:	PCV-IA2-B9		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

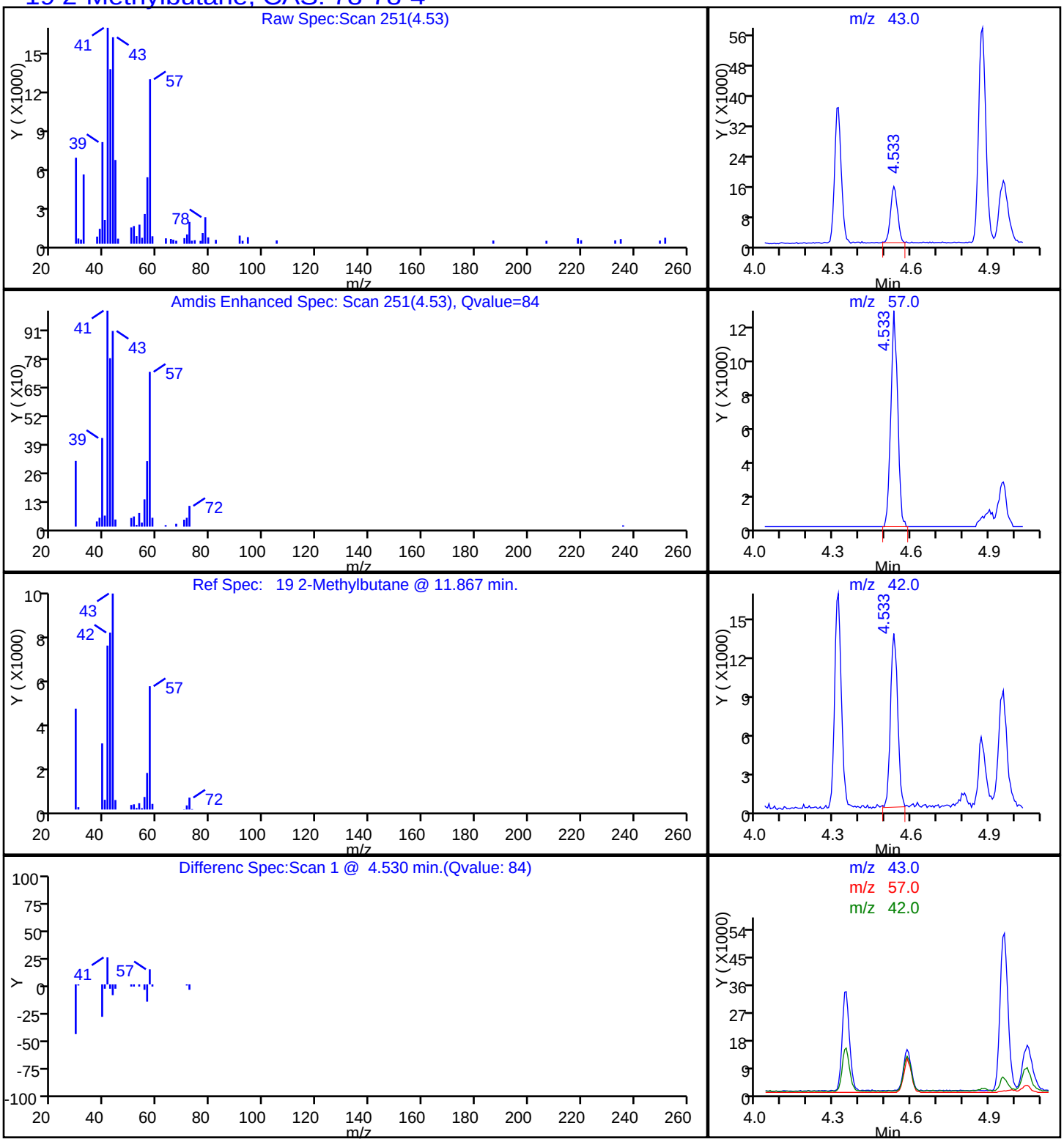
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4

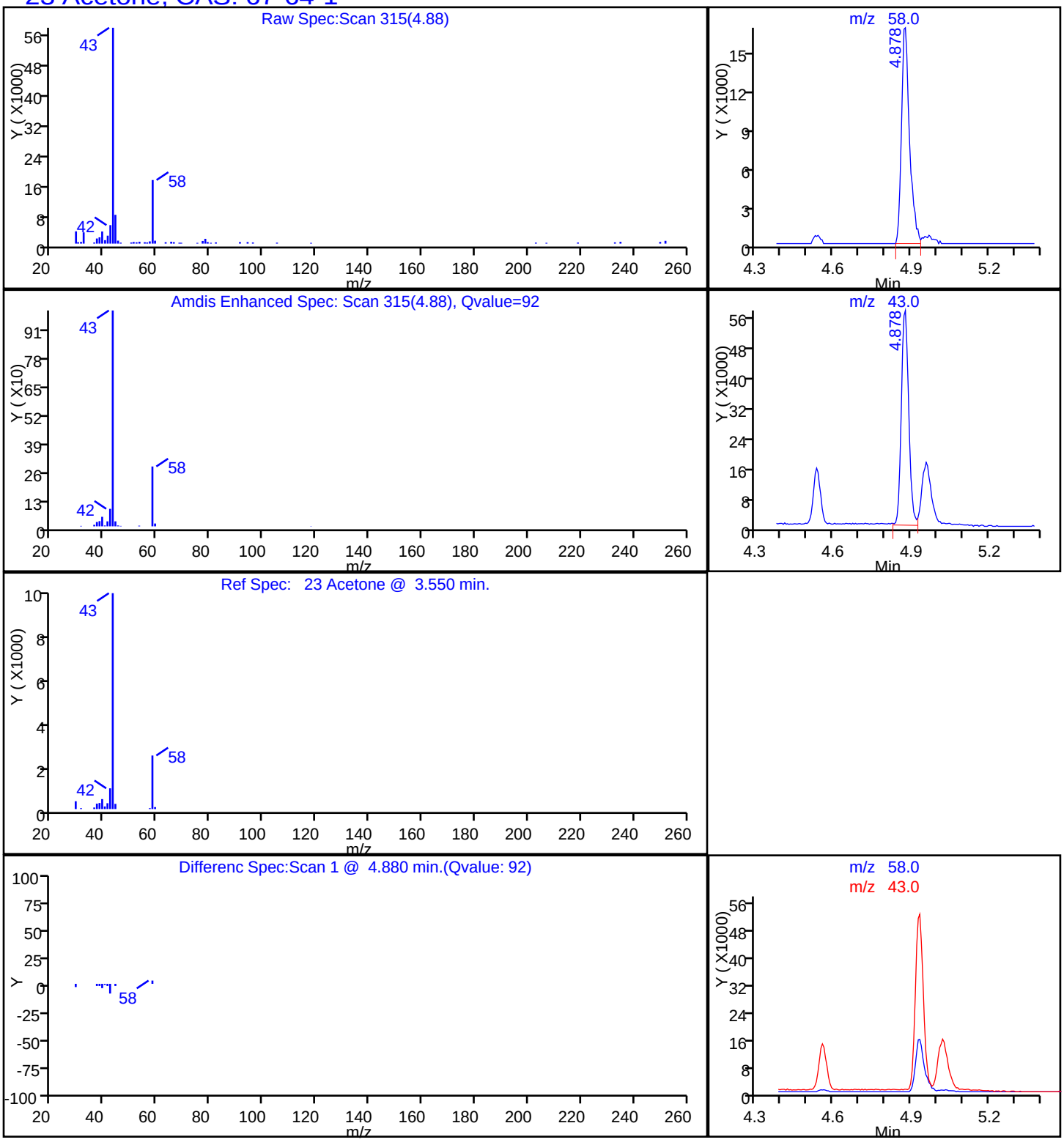


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D		
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17
Client ID:	PCV-IA2-B9		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

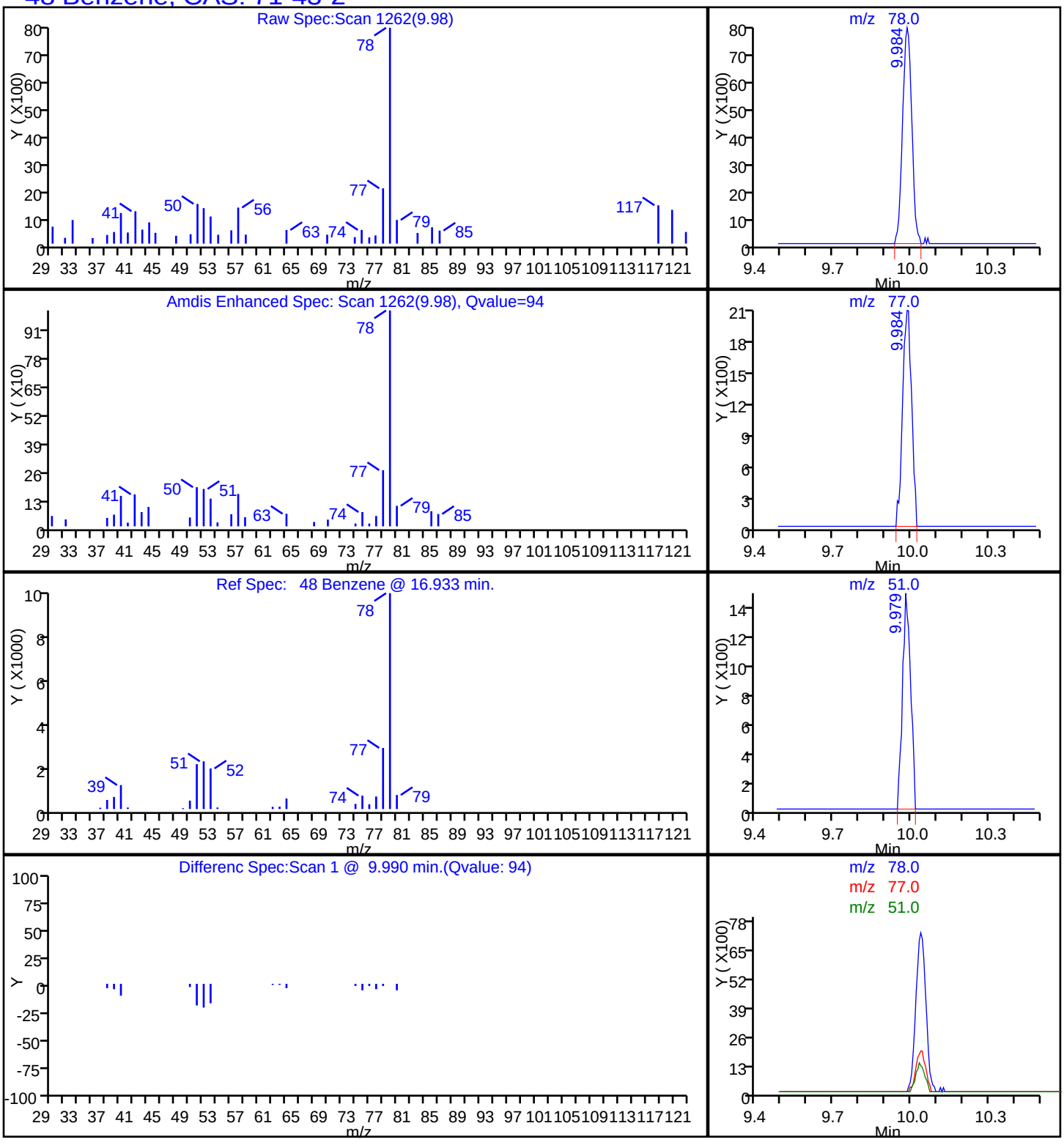
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

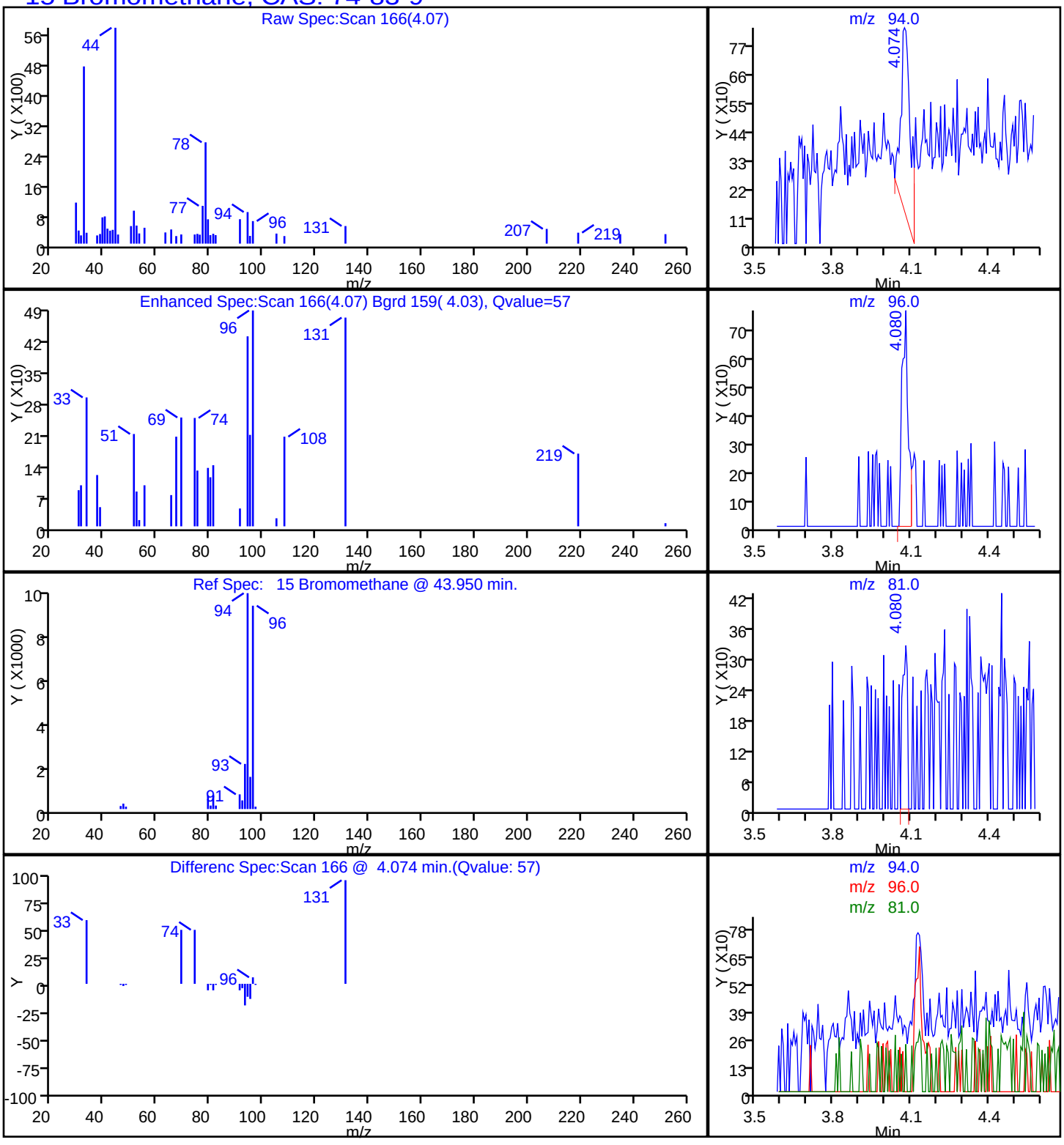
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

15 Bromomethane, CAS: 74-83-9



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

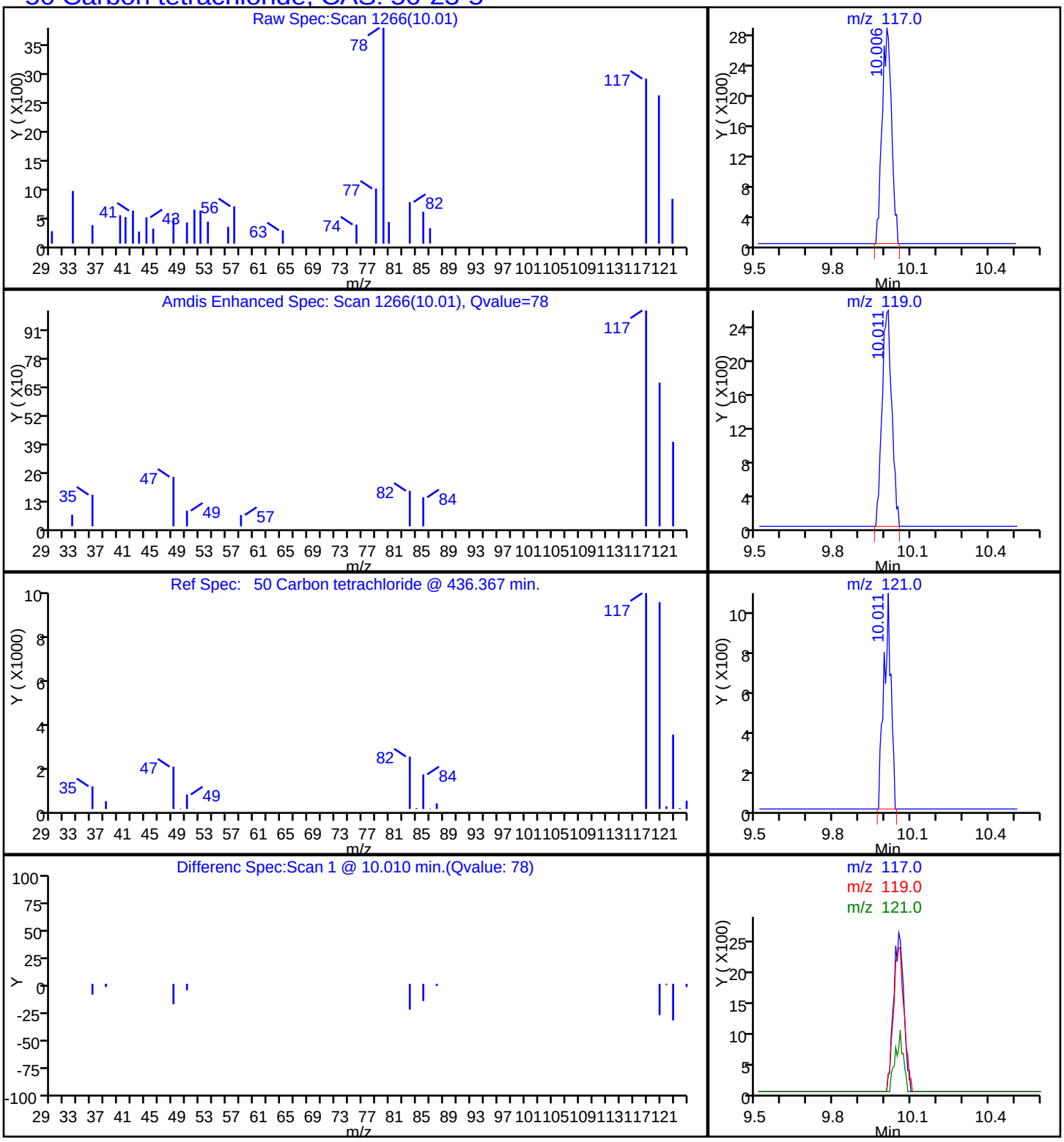
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

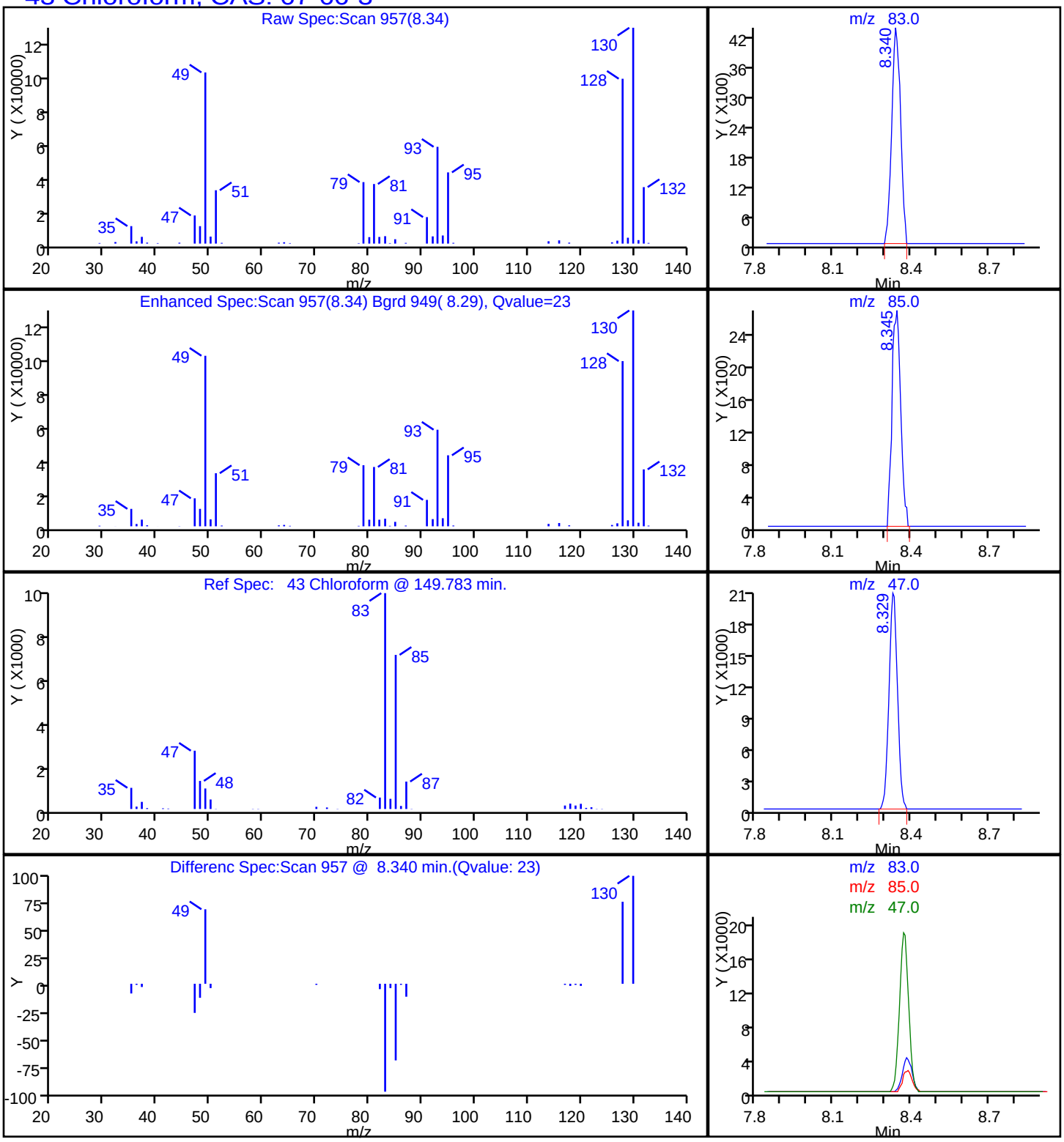
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

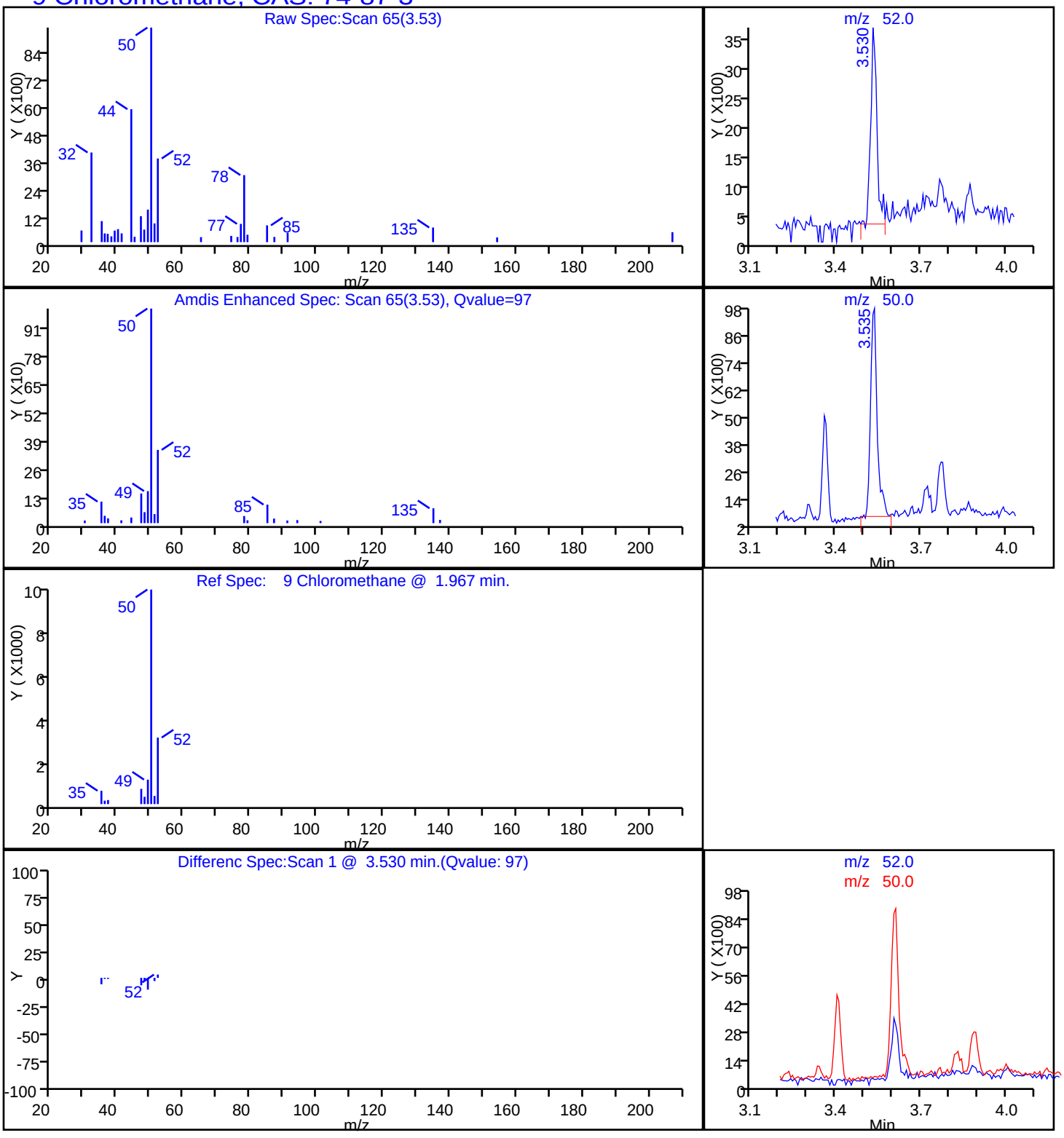
Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D
Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME
Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17
Client ID: PCV-IA2-B9
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

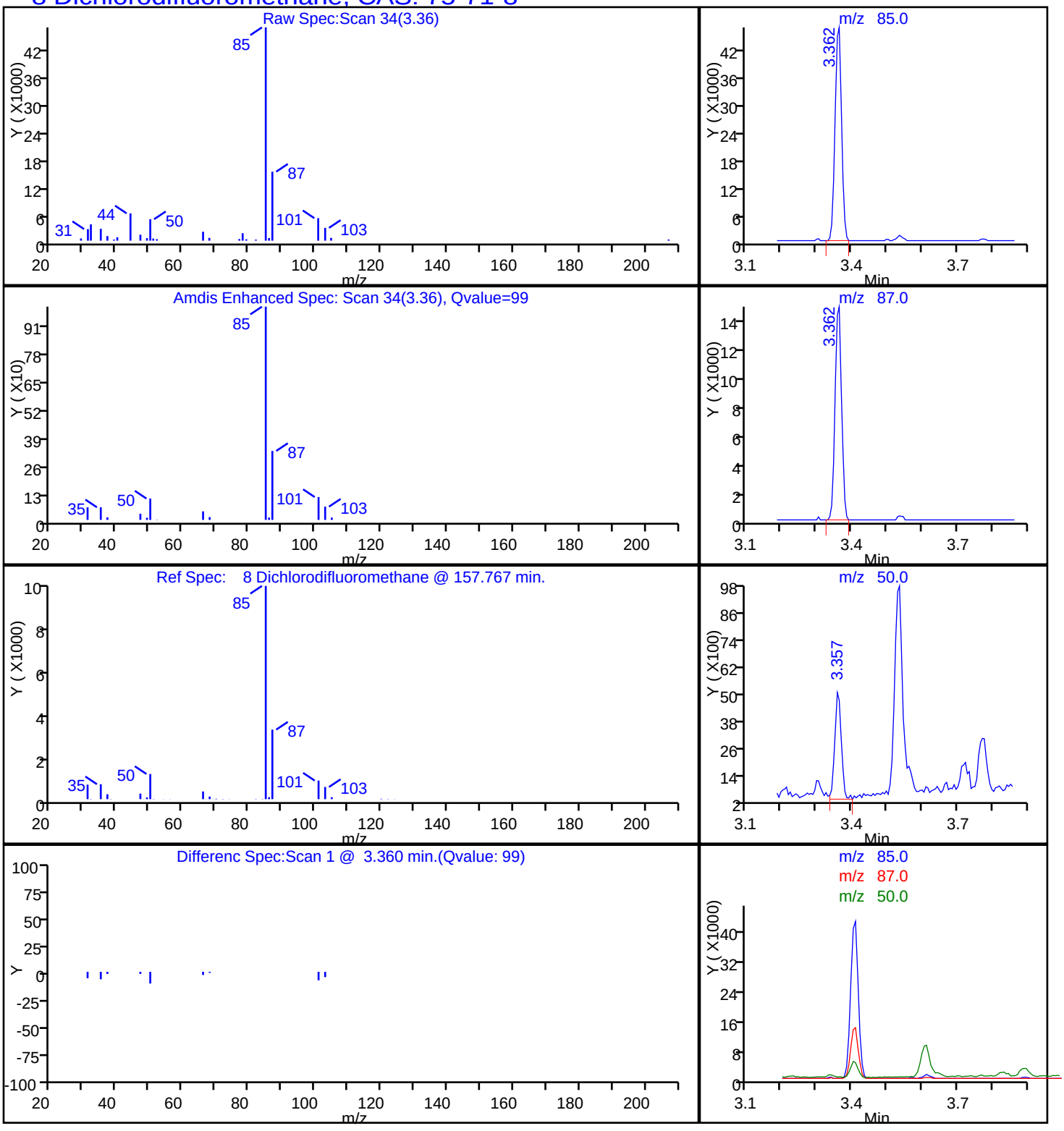
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



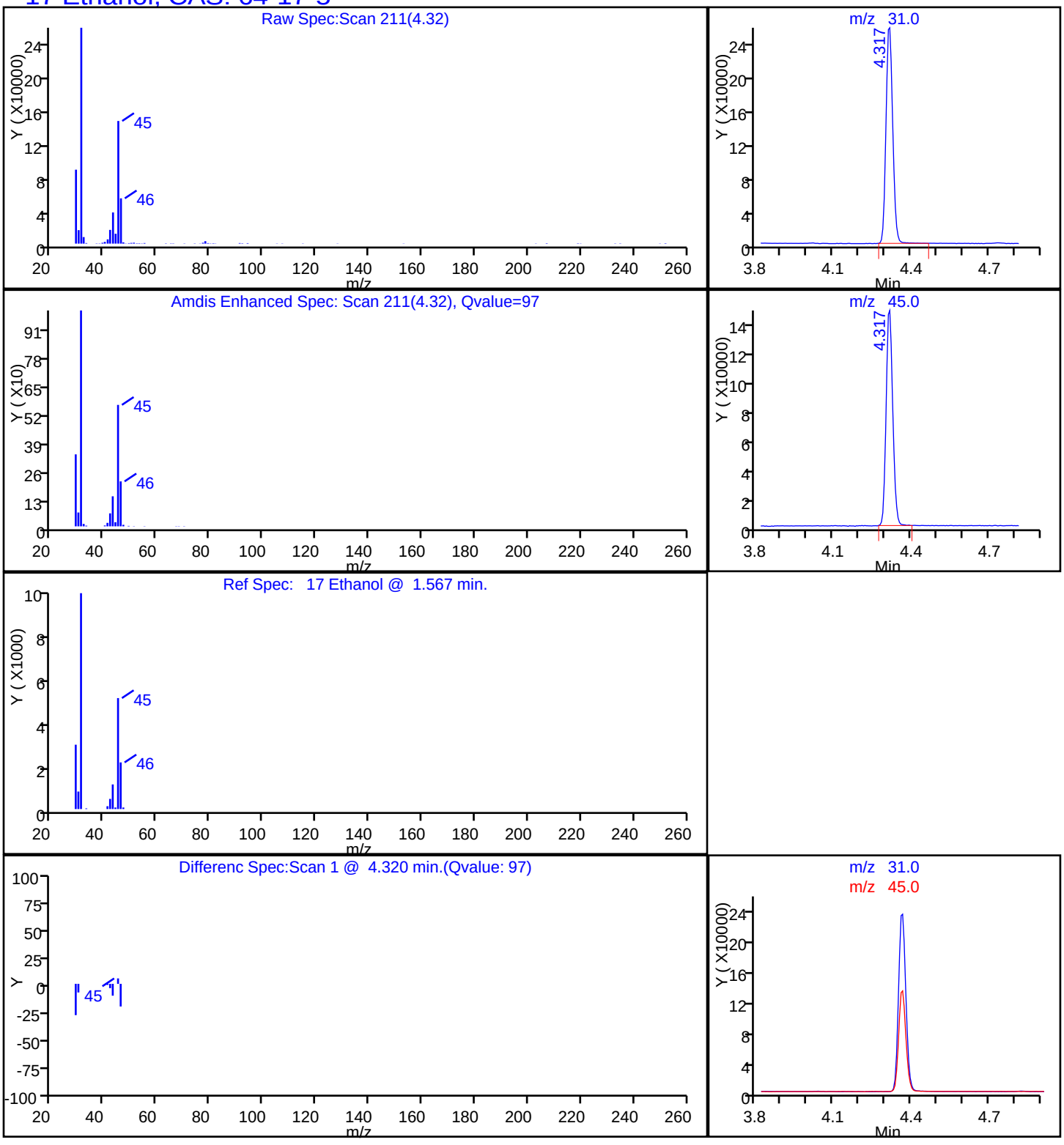
Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17
Client ID:	PCV-IA2-B9		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



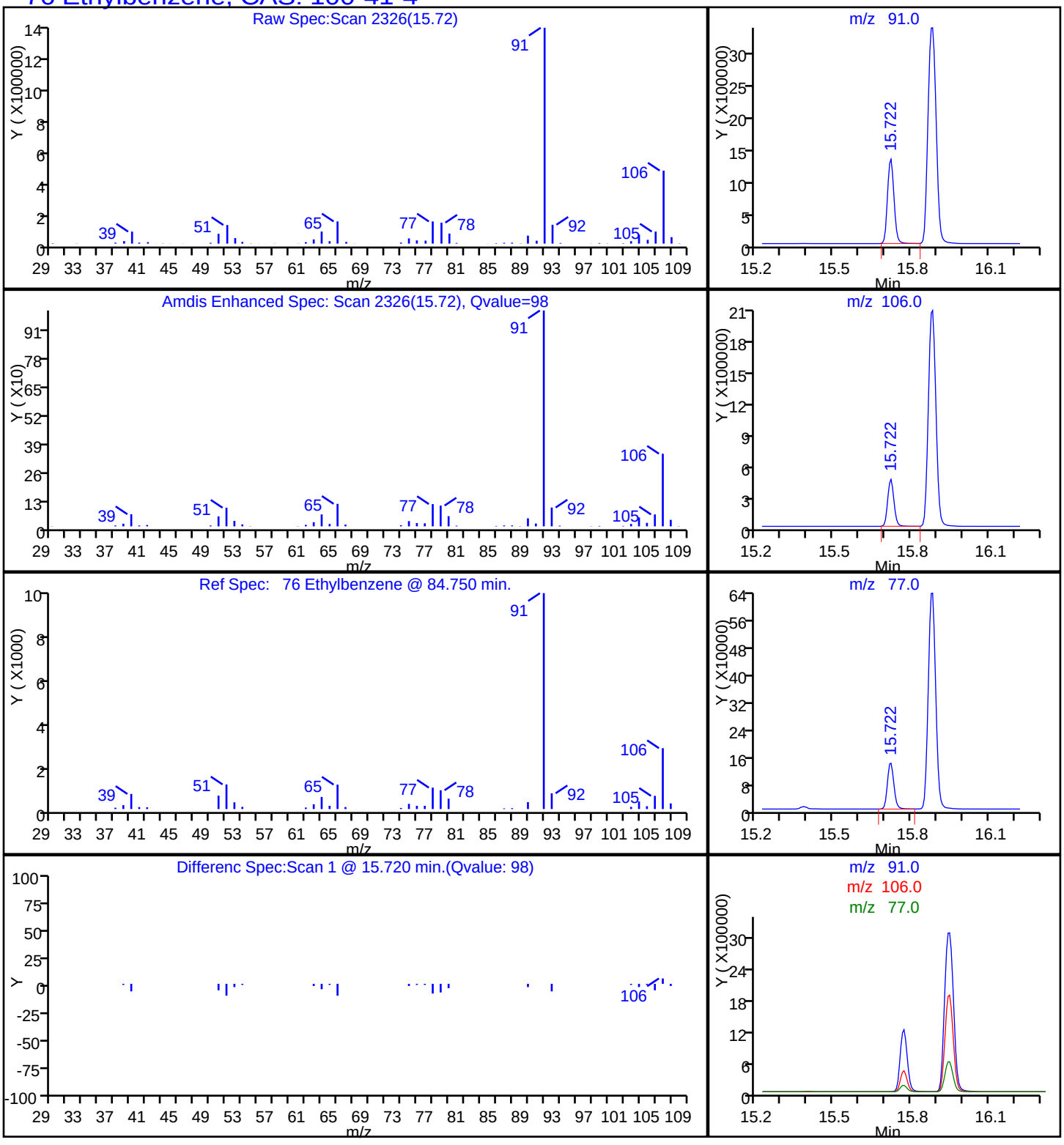
Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



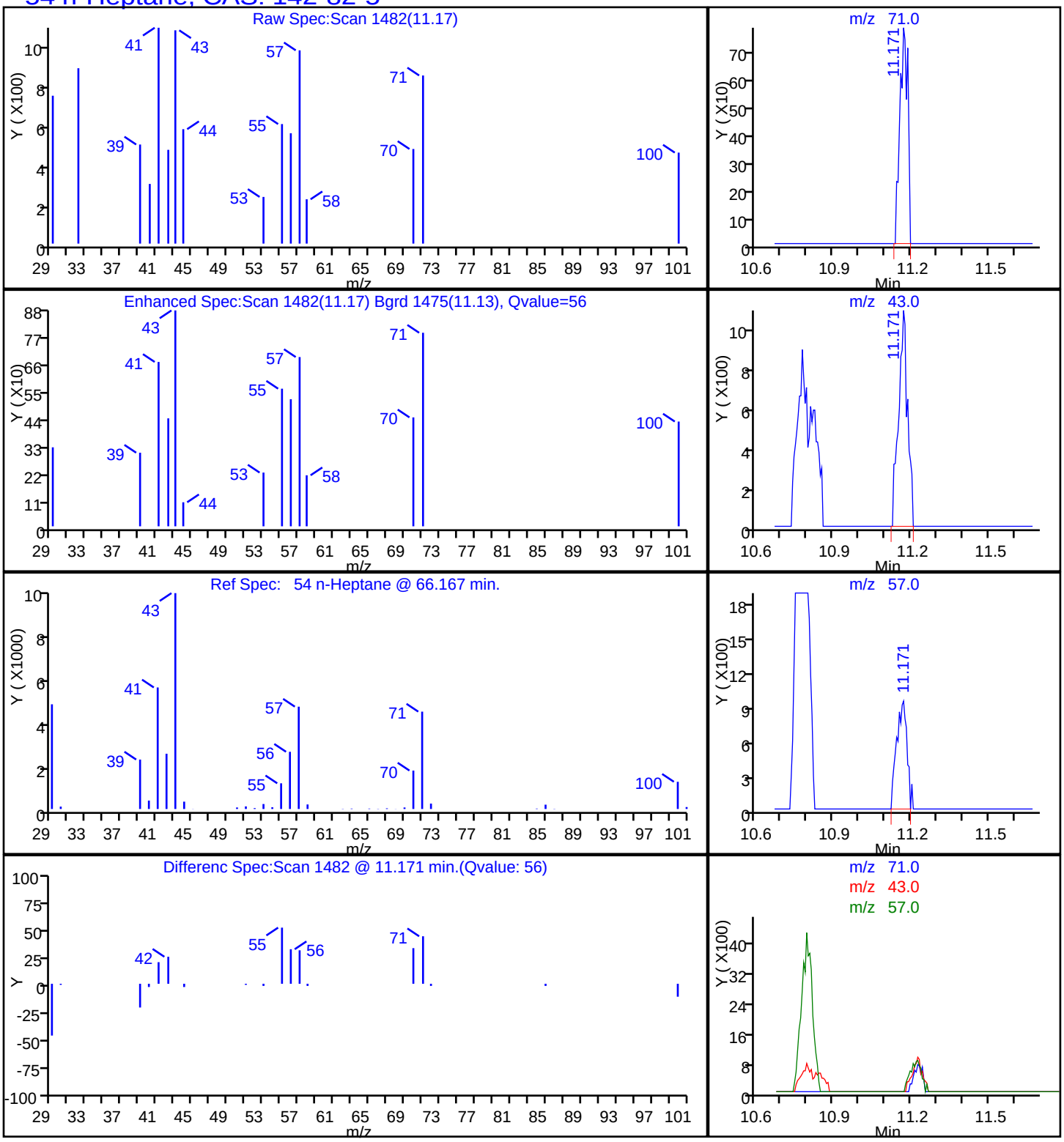
Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17
Client ID:	PCV-IA2-B9		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



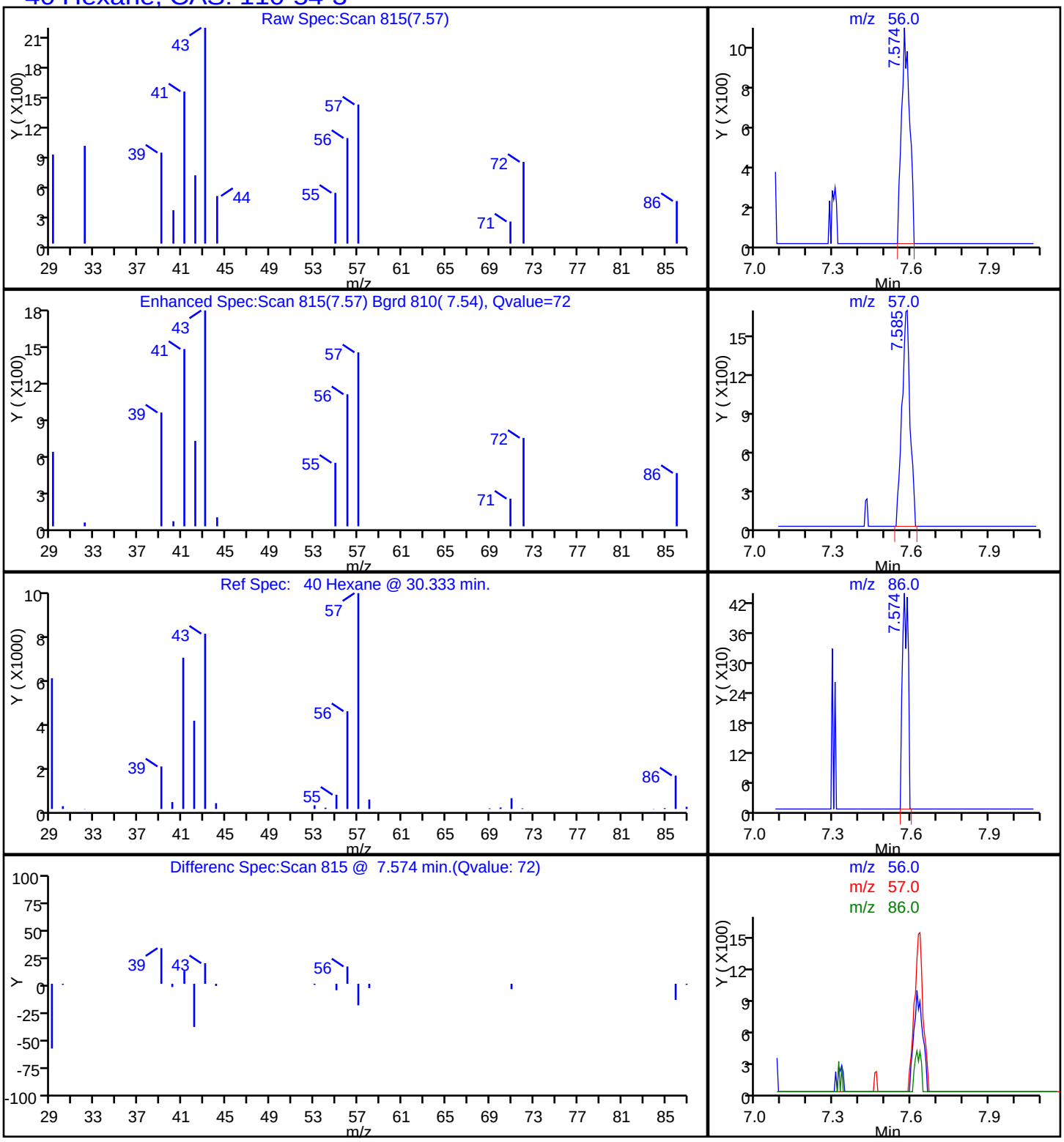
Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

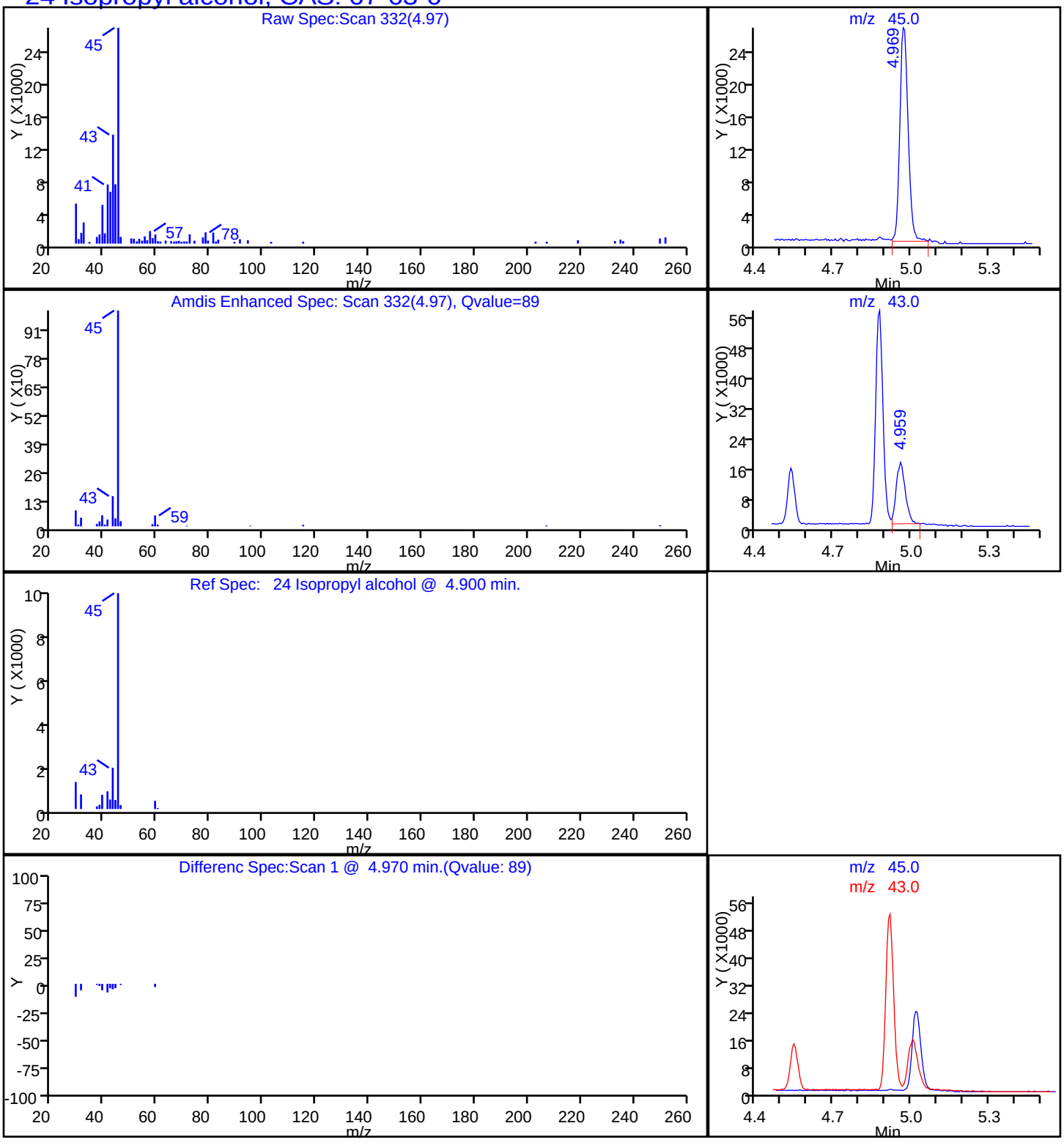
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

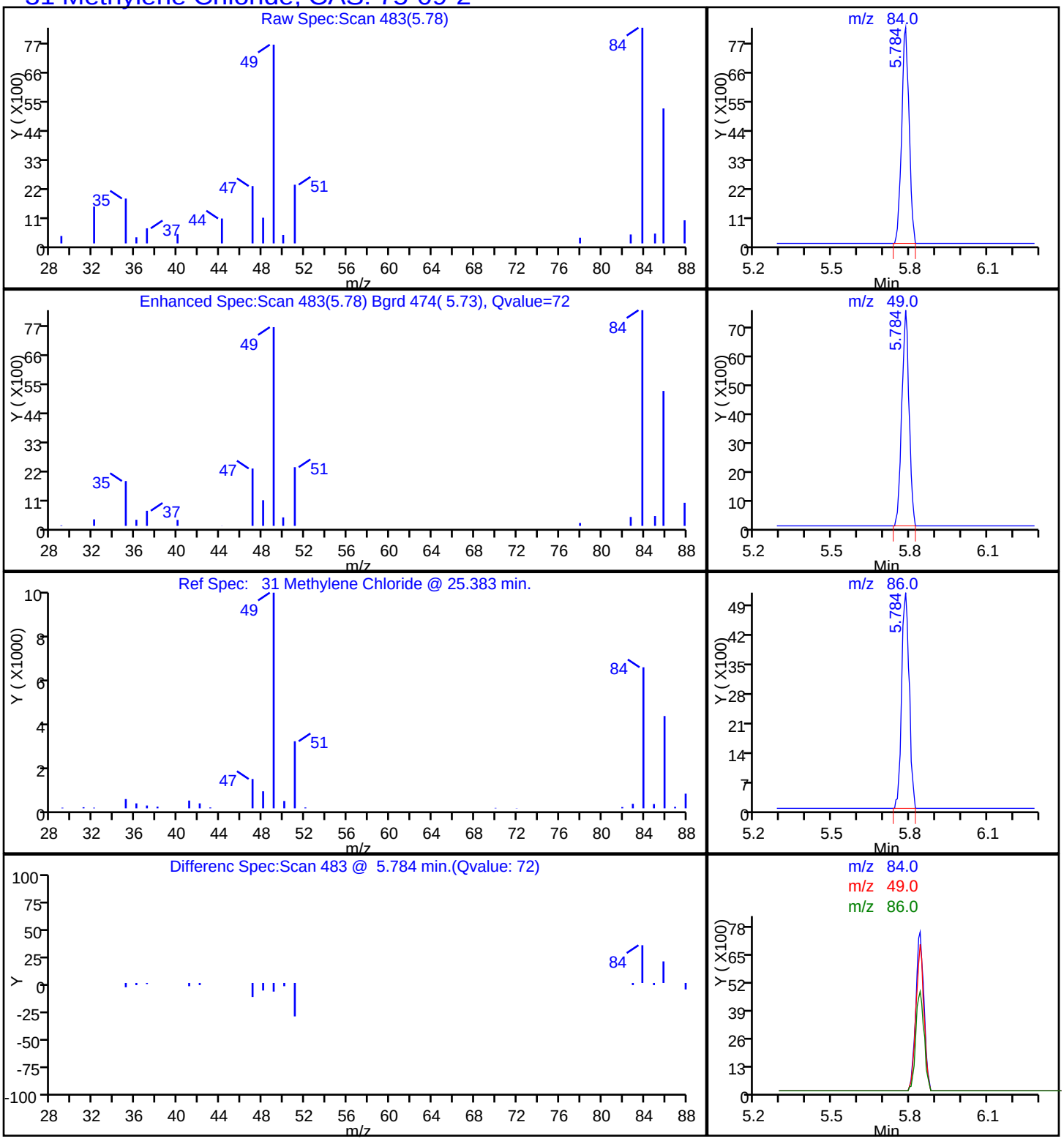
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

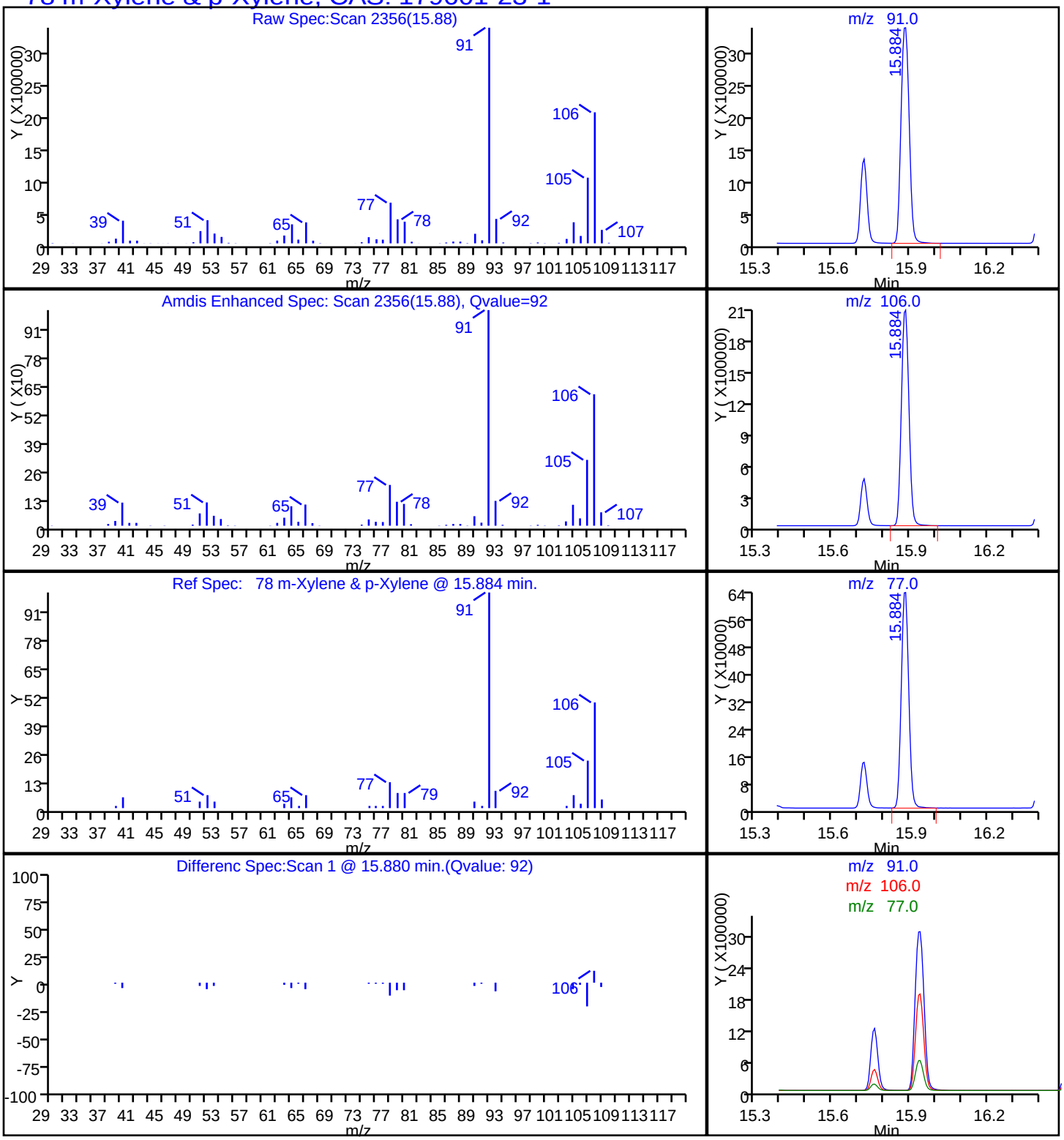


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

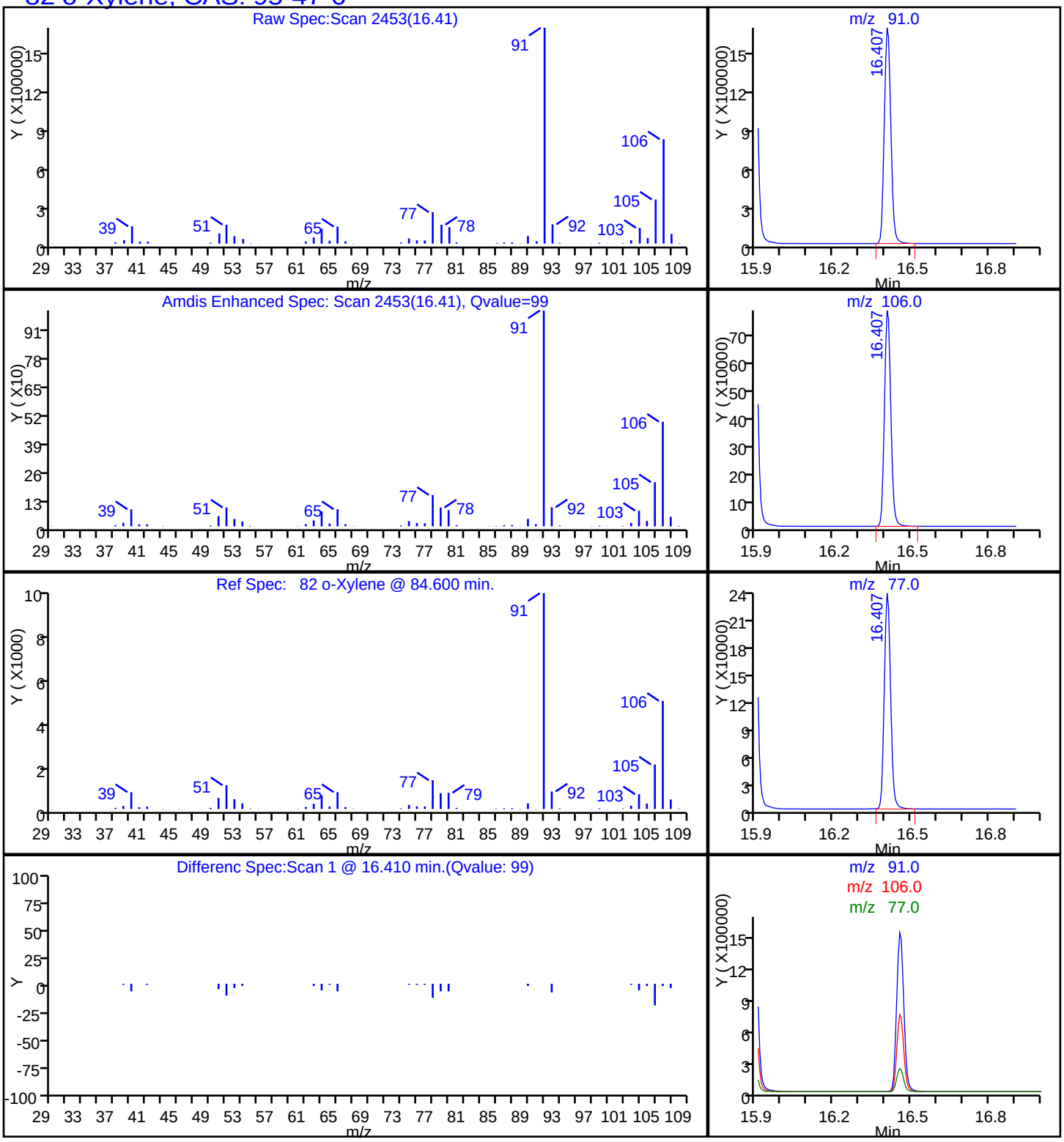


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D

Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME

Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17

Client ID: PCV-IA2-B9

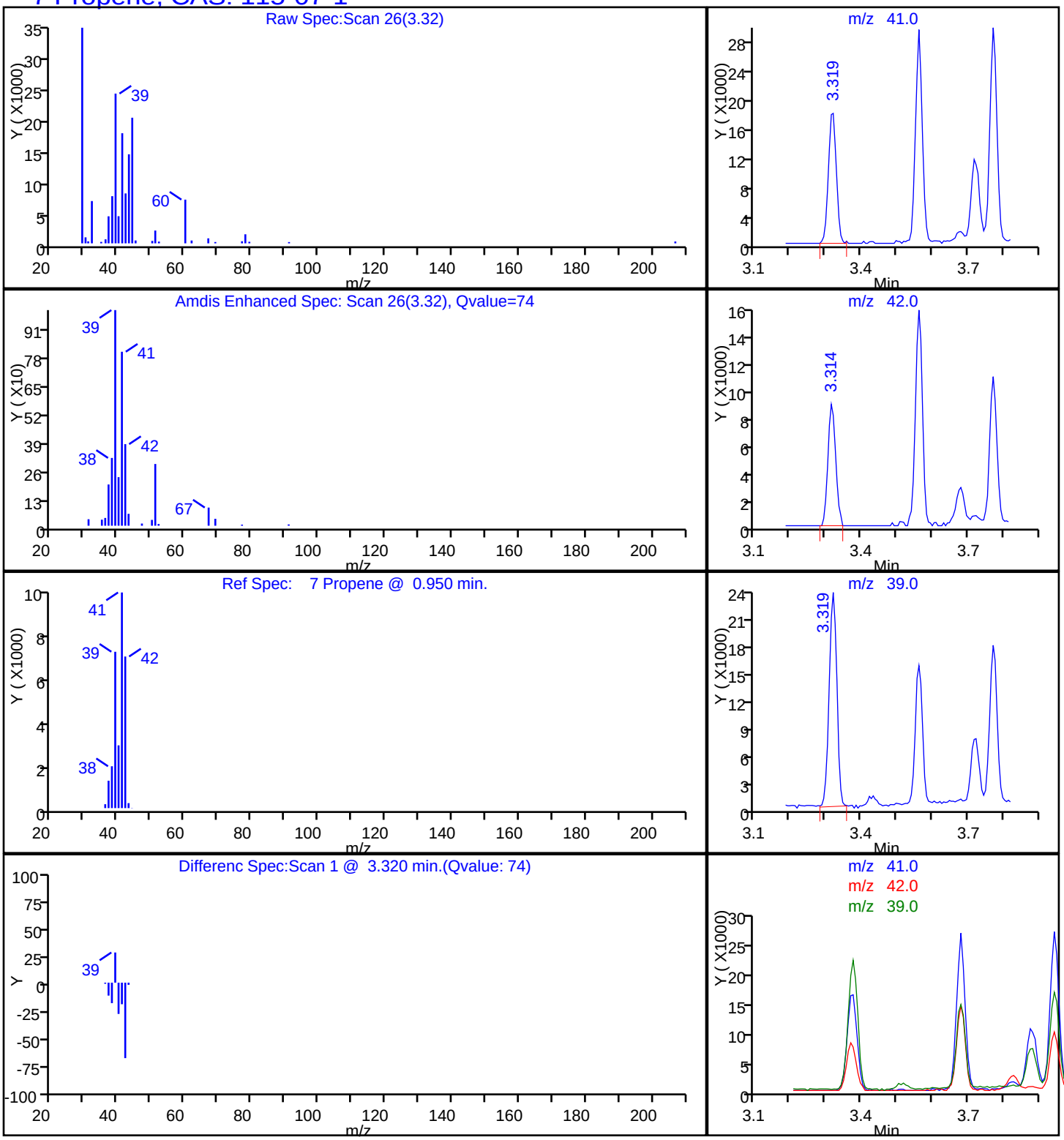
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

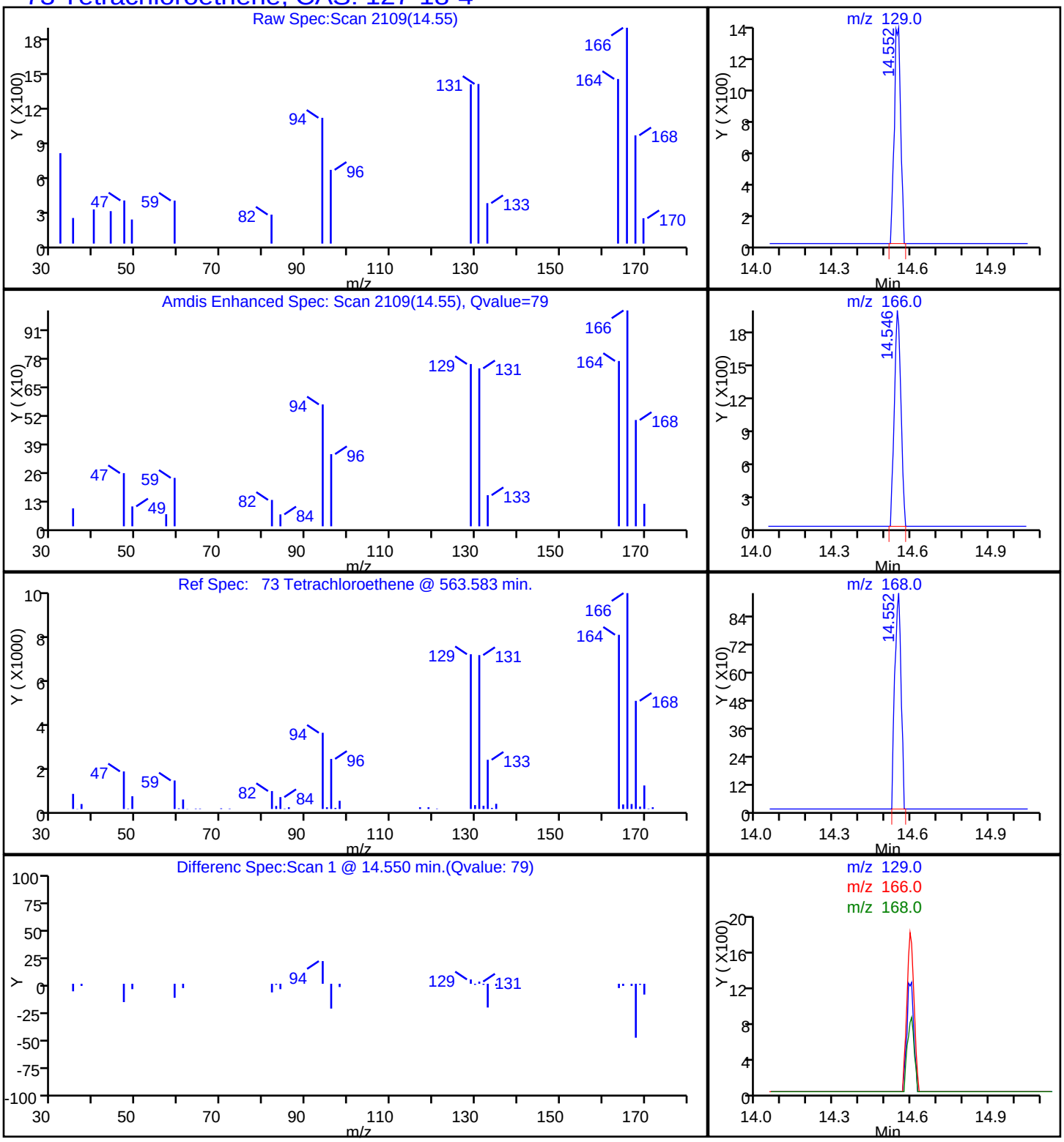
Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D
Injection Date: 21-Mar-2014 03:04:30 Instrument ID: ME
Lims ID: 140-1060-A-17 Lab Sample ID: 140-1060-17
Client ID: PCV-IA2-B9
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

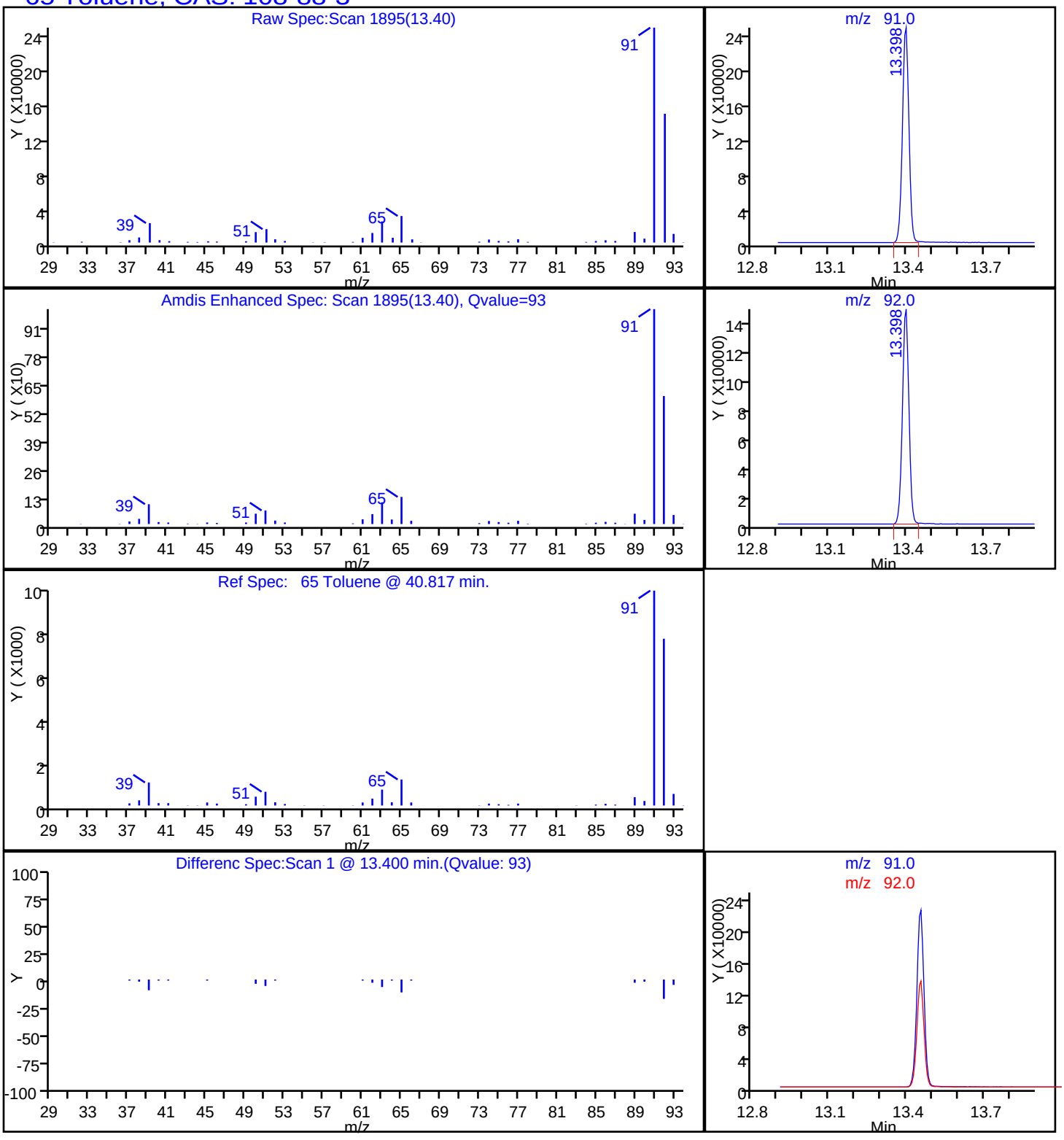
73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D		
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17
Client ID:	PCV-IA2-B9		
Operator ID:	7126	ALS Bottle#:	15 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3

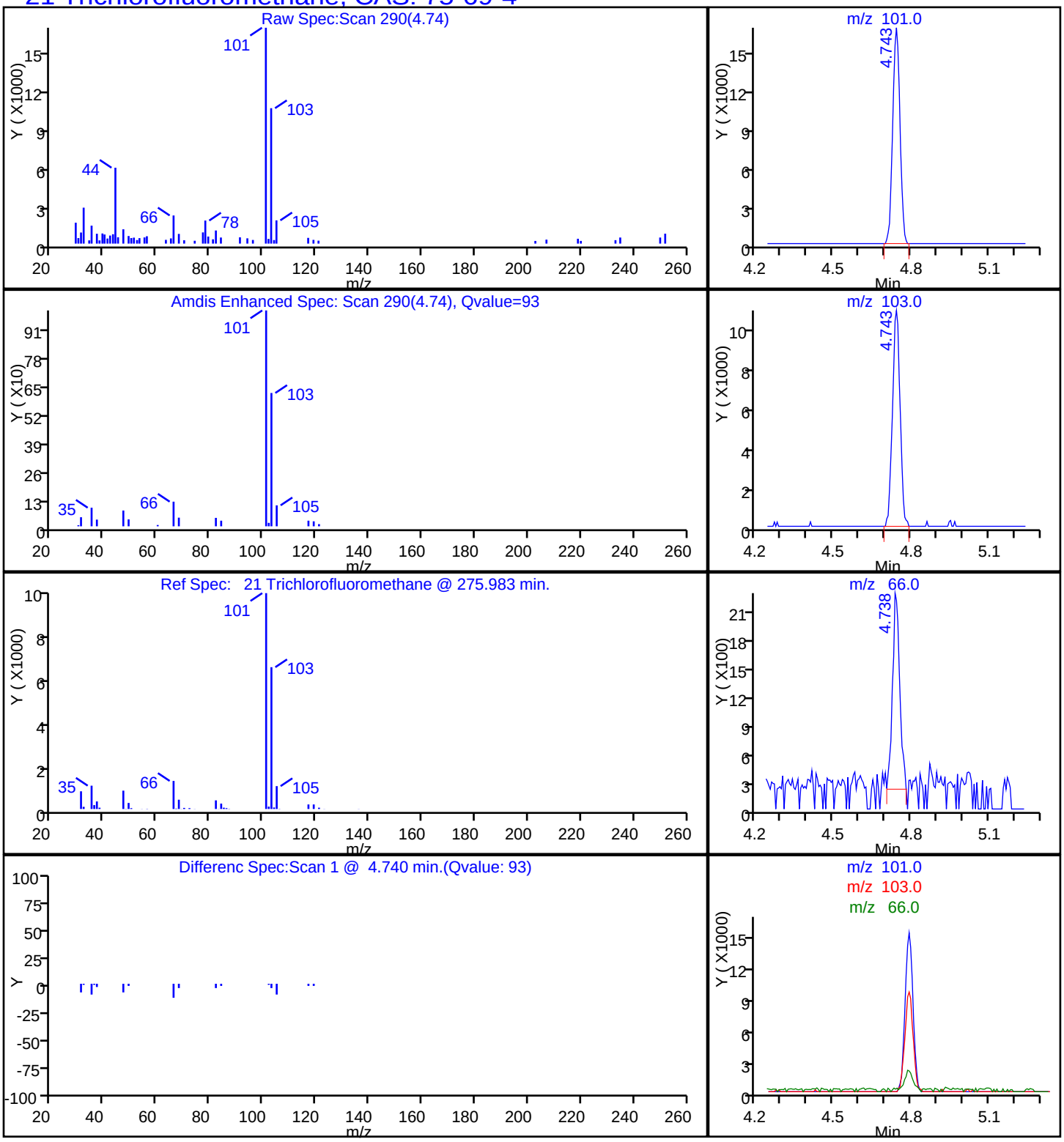


Report Date: 21-Mar-2014 09:45:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

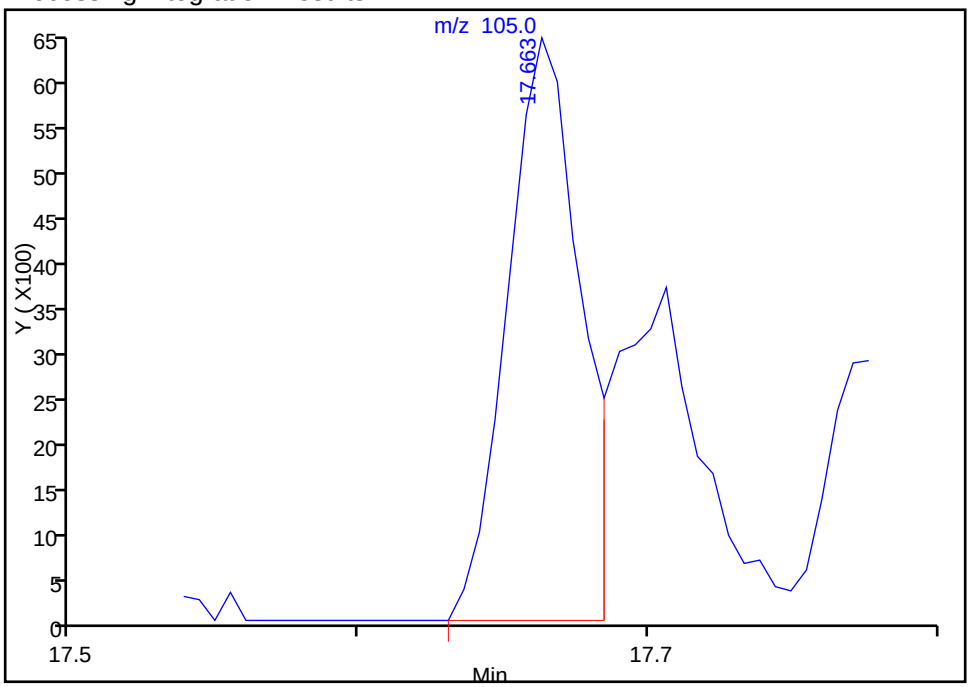
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115.D				
Injection Date:	21-Mar-2014 03:04:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17	Lab Sample ID:	140-1060-17		
Client ID:	PCV-IA2-B9				
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

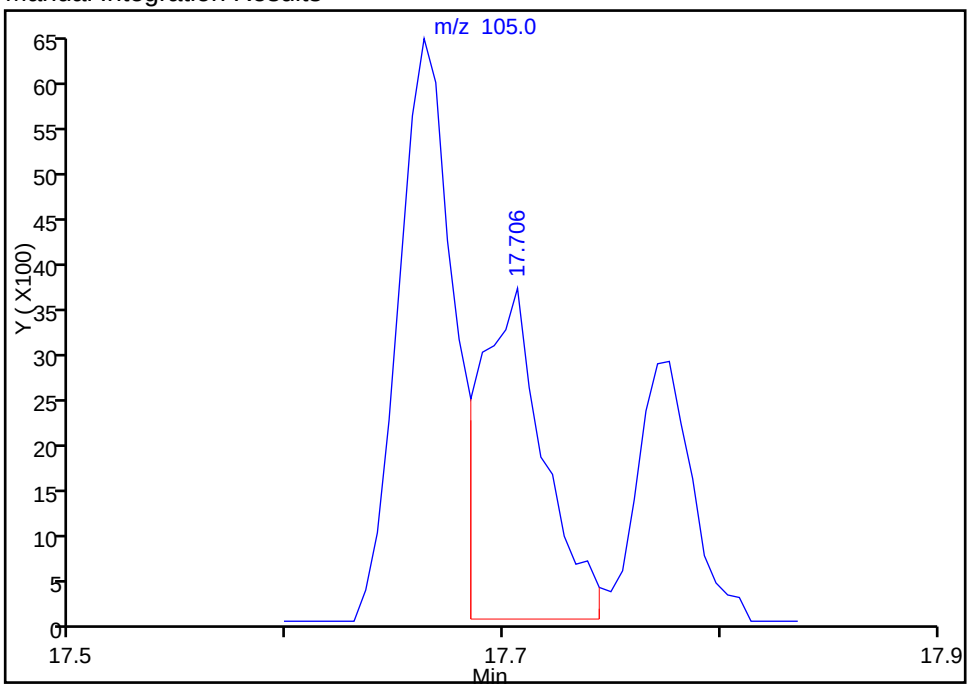
Processing Integration Results

RT: 17.66
Response: 11338
Amount: 0.030452



Manual Integration Results

RT: 17.71
Response: 7635
Amount: 0.020506



Reviewer: tajh, 21-Mar-2014 09:45:02
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.077	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.075	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.069	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.68		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.11	J	0.50	0.045
67-64-1	Acetone	58.08	2.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.077	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.64		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.52		0.20	0.068
64-17-5	Ethanol	46.07	17		2.0	2.0
100-41-4	Ethylbenzene	106.17	26		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.10	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.76	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.53		0.50	0.13
179601-23-1	*m-Xylene & p-Xylene*	*106.17*	*86*	*E*	*0.20*	*0.12*
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	35		0.20	0.061
115-07-1	Propene	42.08	0.79	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.045	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.65		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.042	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.27		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.59	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.15	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.0		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	2.0	0.18
67-64-1	Acetone	58.08	6.6	J	12	3.3
71-43-2	Benzene	78.11	0.75		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.49	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	32		3.8	3.8
100-41-4	Ethylbenzene	106.17	110		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.36	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.9	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	*m-Xylene & p-Xylene*	*106.17*	*370*	*E*	*0.87*	*0.52*
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	150		0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.31	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.22	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 Lab Sample ID: 140-1060-18

Matrix: Air Lab File ID: EC20P201.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 04:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D
Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18
Client ID: PCV-IA1-B8
Sample Type: Client
Inject. Date: 21-Mar-2014 04:33:30 ALS Bottle#: 1 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-18
Misc. Info.: E032014,TO155,,140-0000533-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:48:58 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:48:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	260421	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1217725	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1145319	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	1051610	4.19	
7 Propene	41	3.319	3.314	0.005	73	20679	0.3157	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	59362	0.2061	
9 Chloromethane	52	3.535	3.530	0.005	98	5847	0.2543	
13 Butadiene	54	3.778	3.772	0.006	28	1684	0.0274	
17 Ethanol	31	4.312	4.317	-0.005	97	179567	6.89	
19 2-Methylbutane	43	4.533	4.538	-0.005	84	24714	0.2710	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	31185	0.1079	
23 Acetone	58	4.878	4.883	-0.005	92	43688	1.11	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	91	30828	0.3036	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	78	5488	0.0307	
31 Methylene Chloride	84	5.784	5.789	-0.005	70	15636	0.2101	
40 Hexane	56	7.574	7.585	-0.011	73	2800	0.0404	
48 Benzene	78	9.984	9.995	-0.011	94	23133	0.0944	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	90	7262	0.0308	
56 Trichloroethene	130	11.295	11.306	-0.011	51	2013	0.0166	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	82	6189	0.0429	
65 Toluene	91	13.398	13.398	0.0	93	79321	0.2585	
73 Tetrachloroethene	129	14.546	14.552	-0.006	75	2353	0.0180	
76 Ethylbenzene	91	15.722	15.722	0.0	97	4090241	10.4	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	82	10646271	34.4	E
82 o-Xylene	91	16.407	16.412	-0.005	98	4689512	14.0	
88 4-Ethyltoluene	105	17.696	17.701	-0.005	56	11070	0.0262	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	72	10524	0.0299	

QC Flag Legend

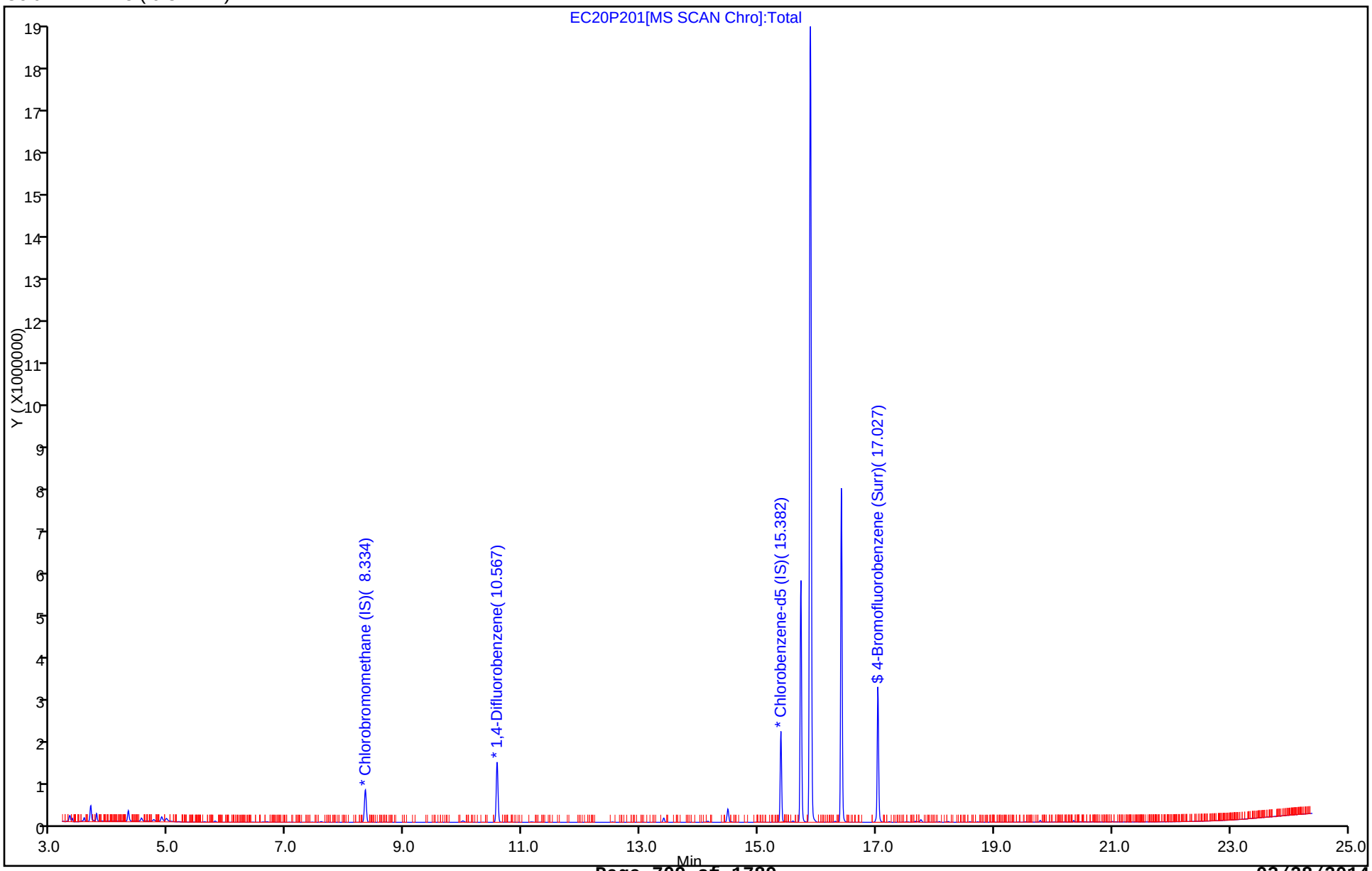
Processing Flags
E - Exceeded Maximum Amount

Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D				
Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18	Worklist Smp#:	21
Client ID:	PCV-IA1-B8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



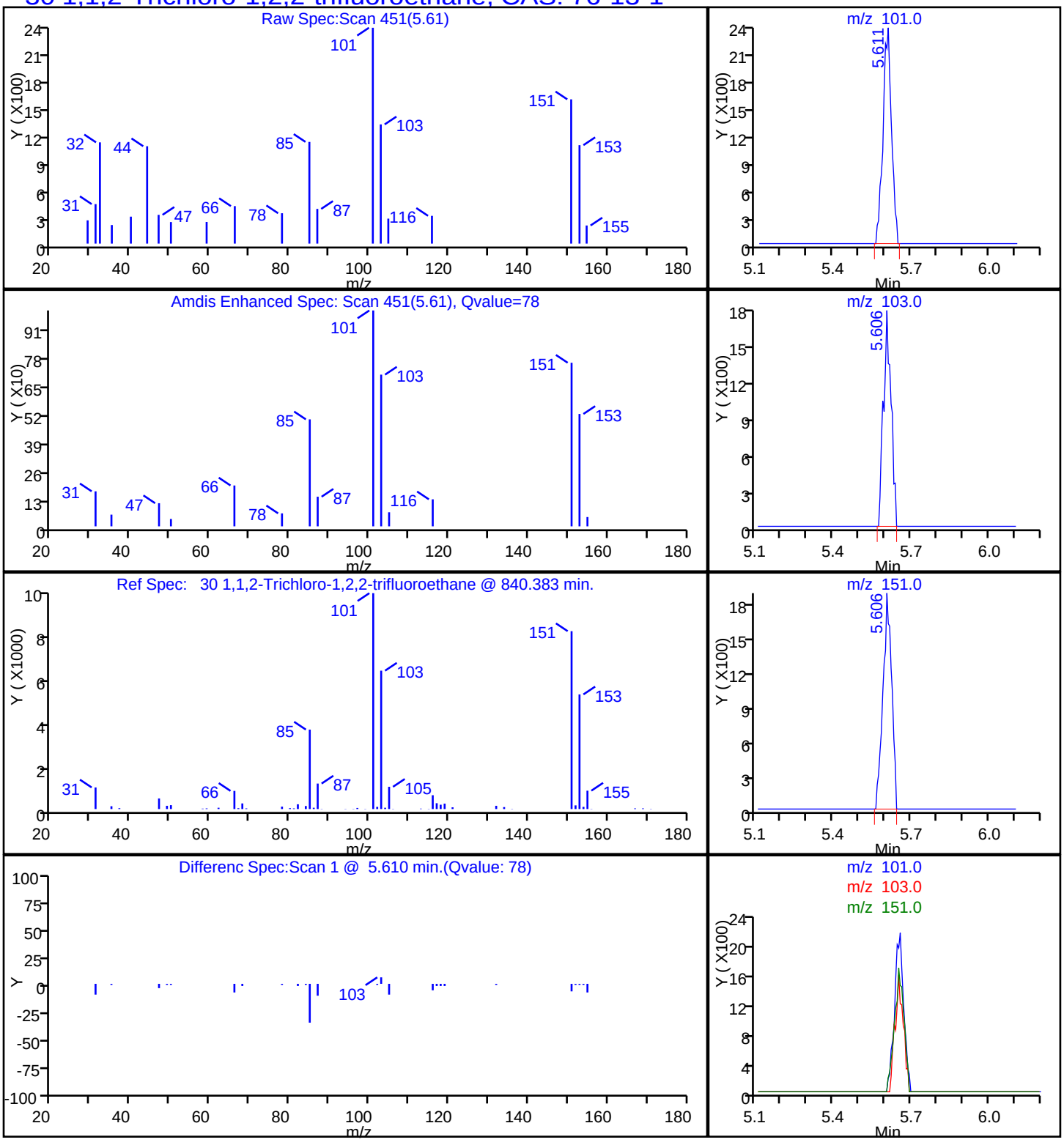
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

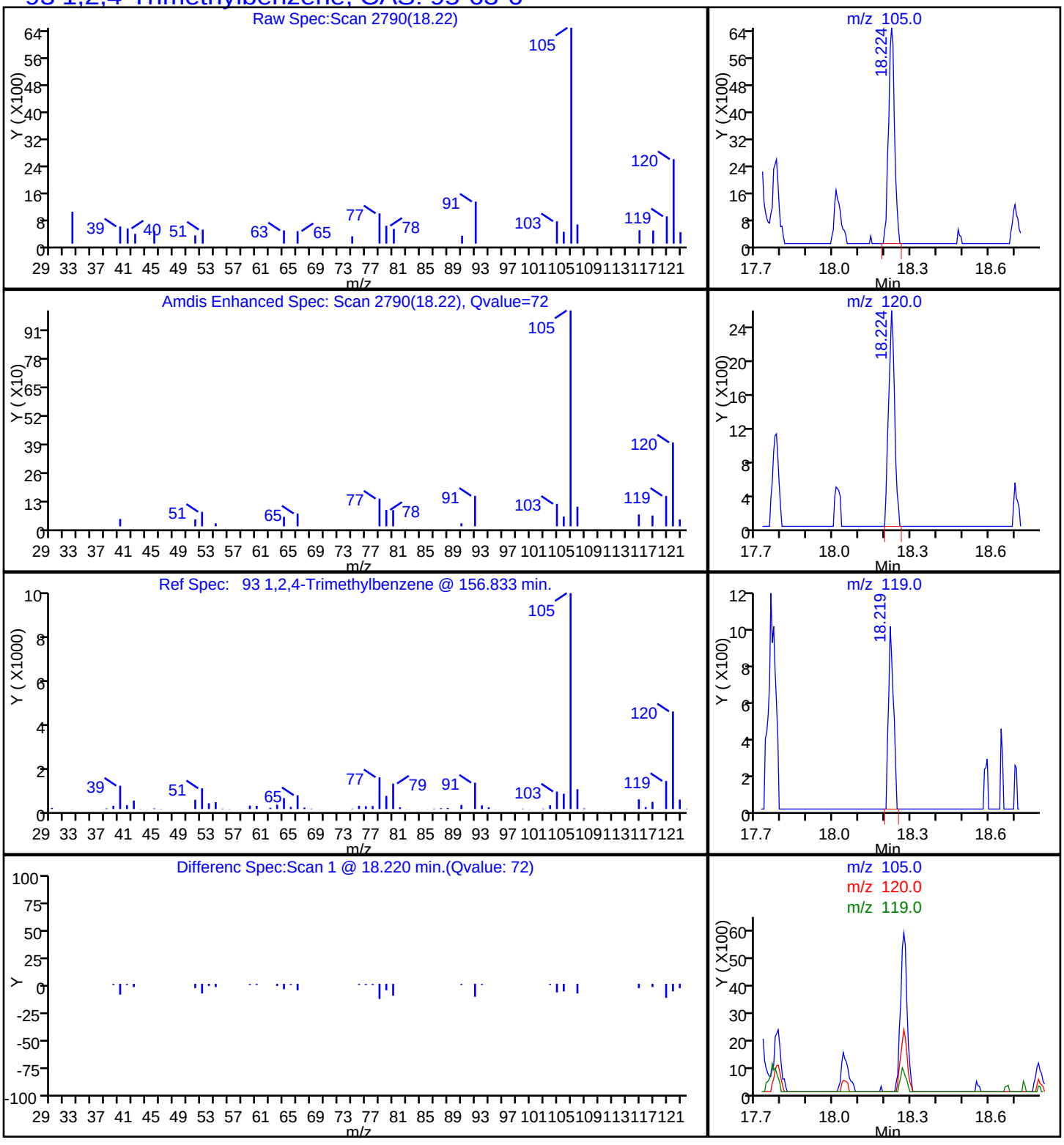


Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D				
Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

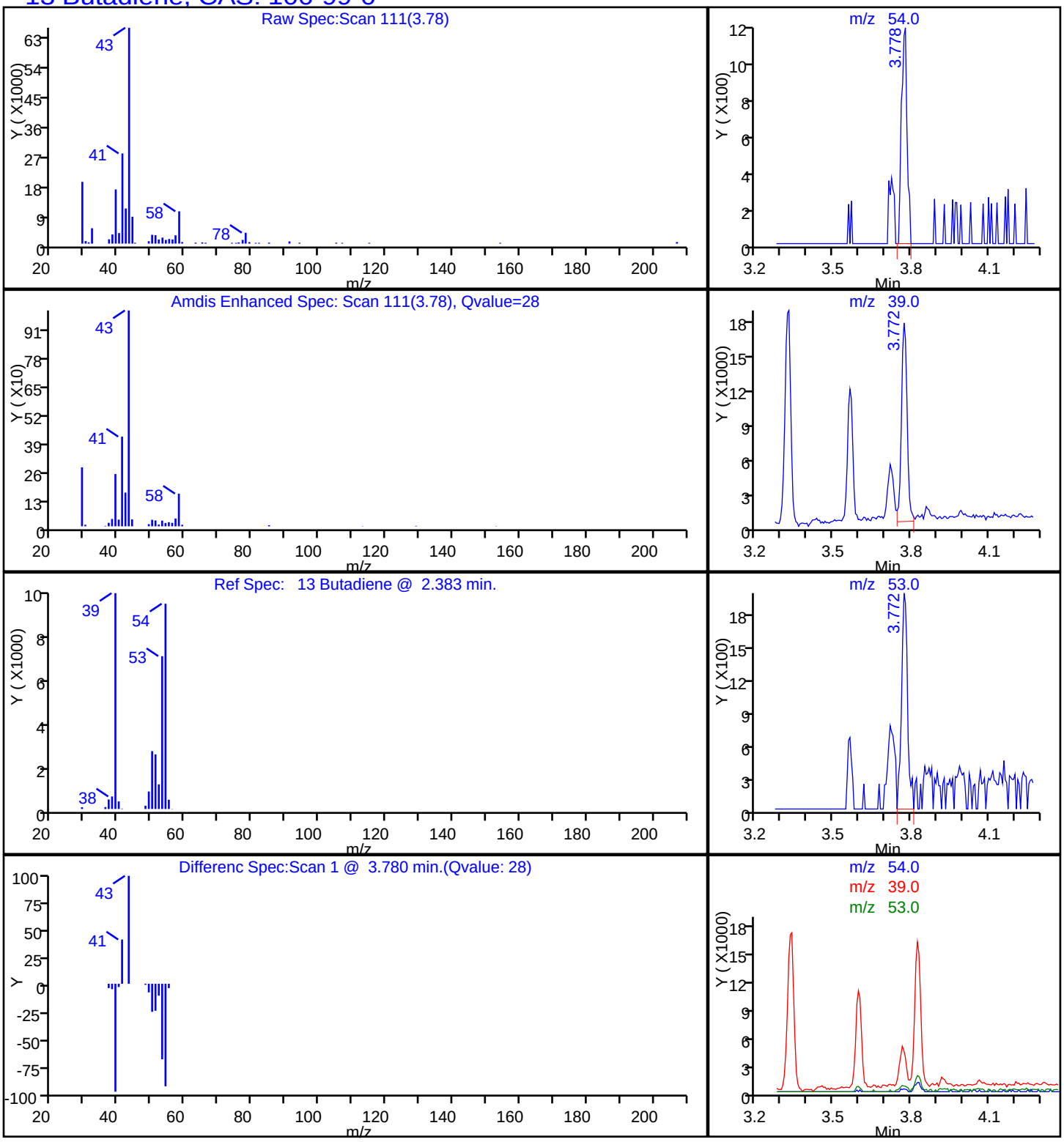
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

13 Butadiene, CAS: 106-99-0



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

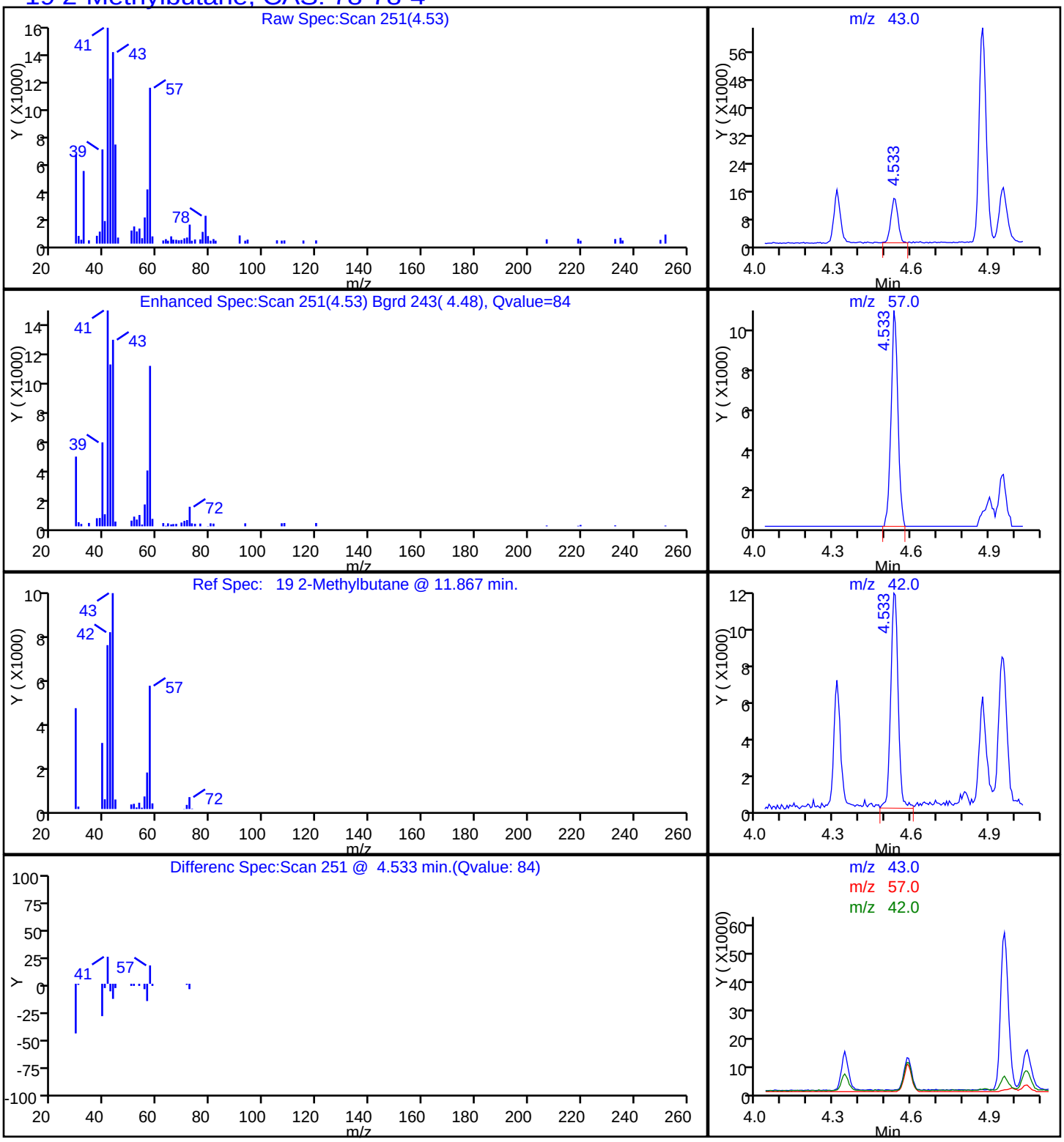
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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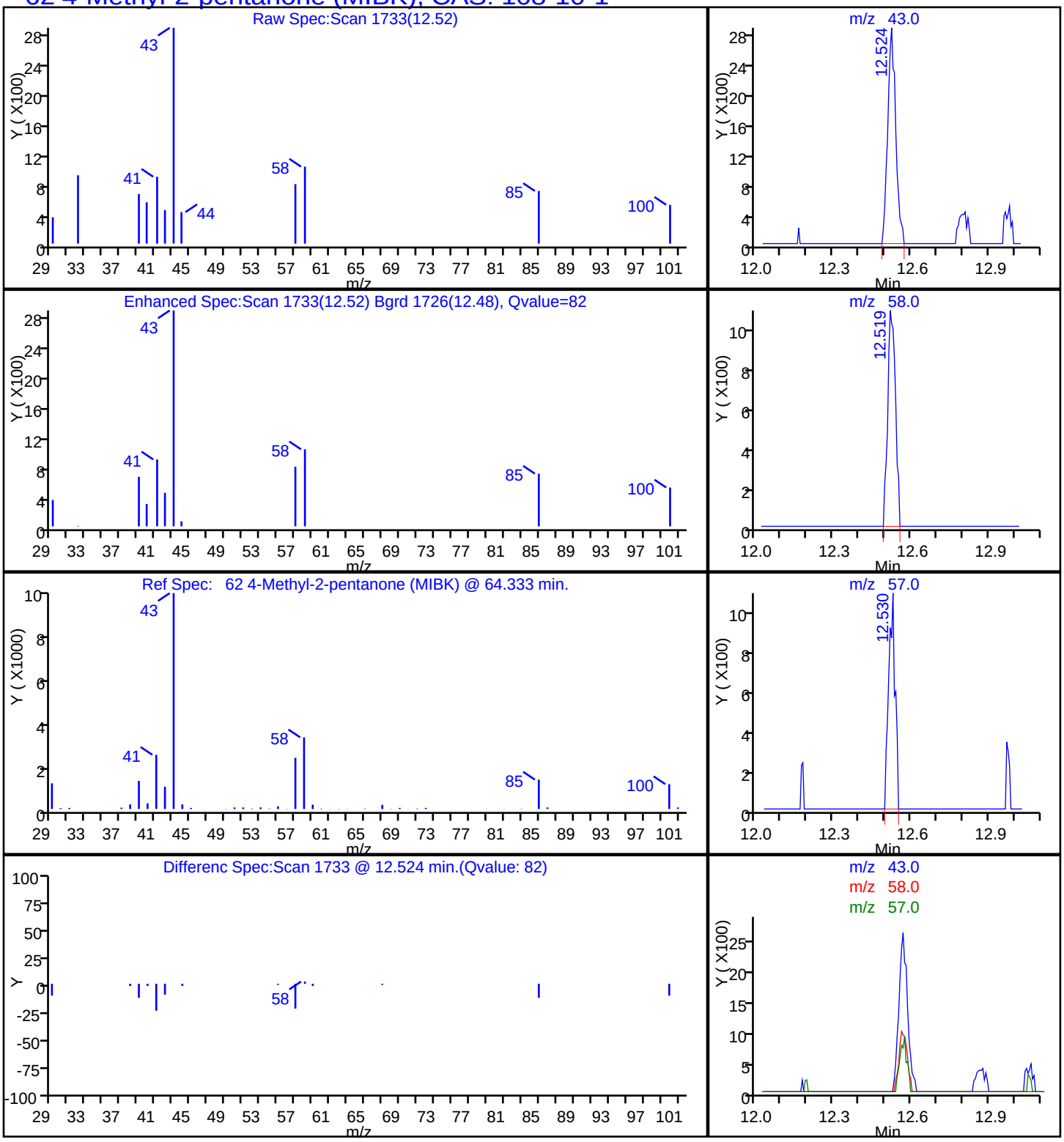
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

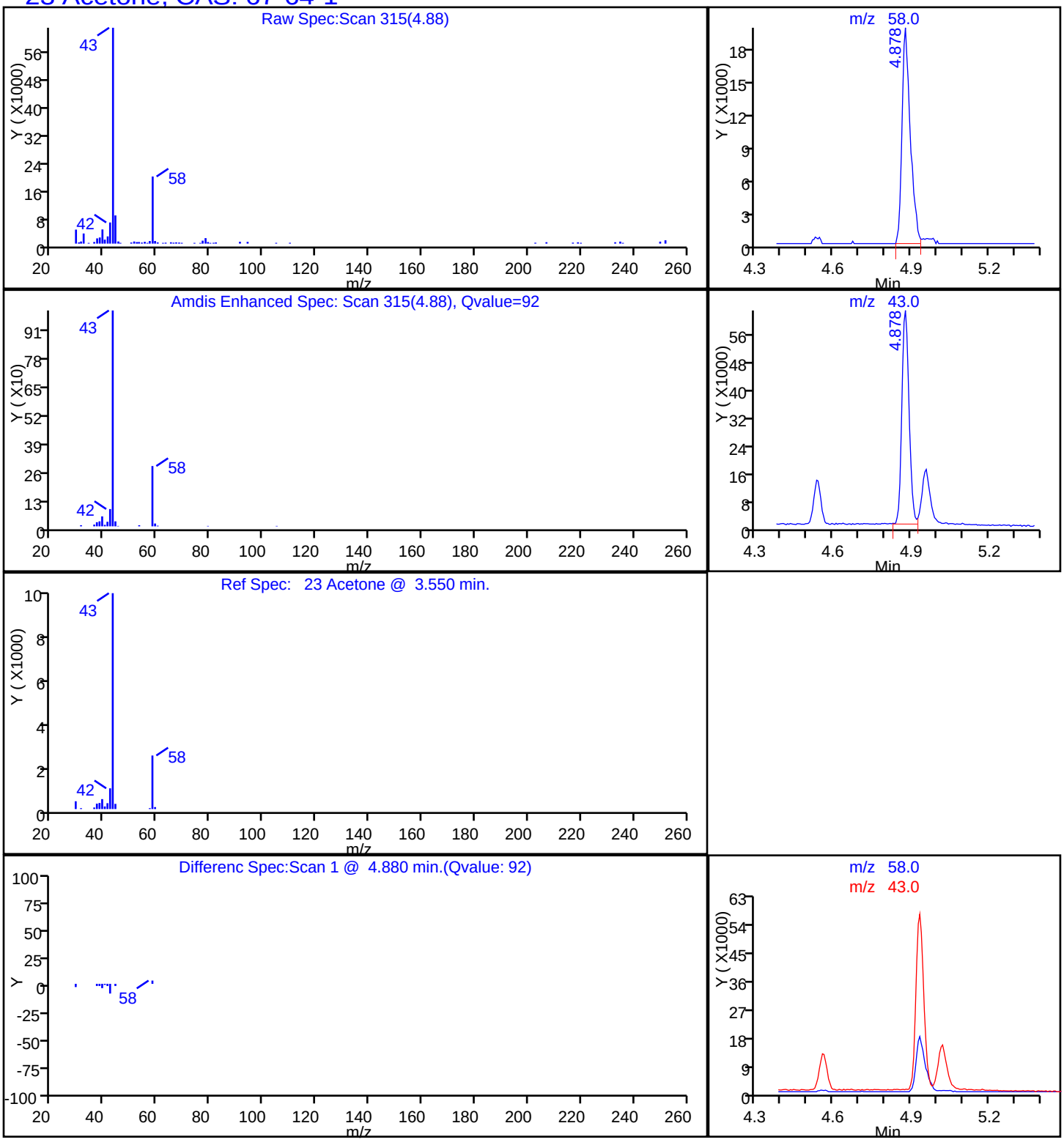
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



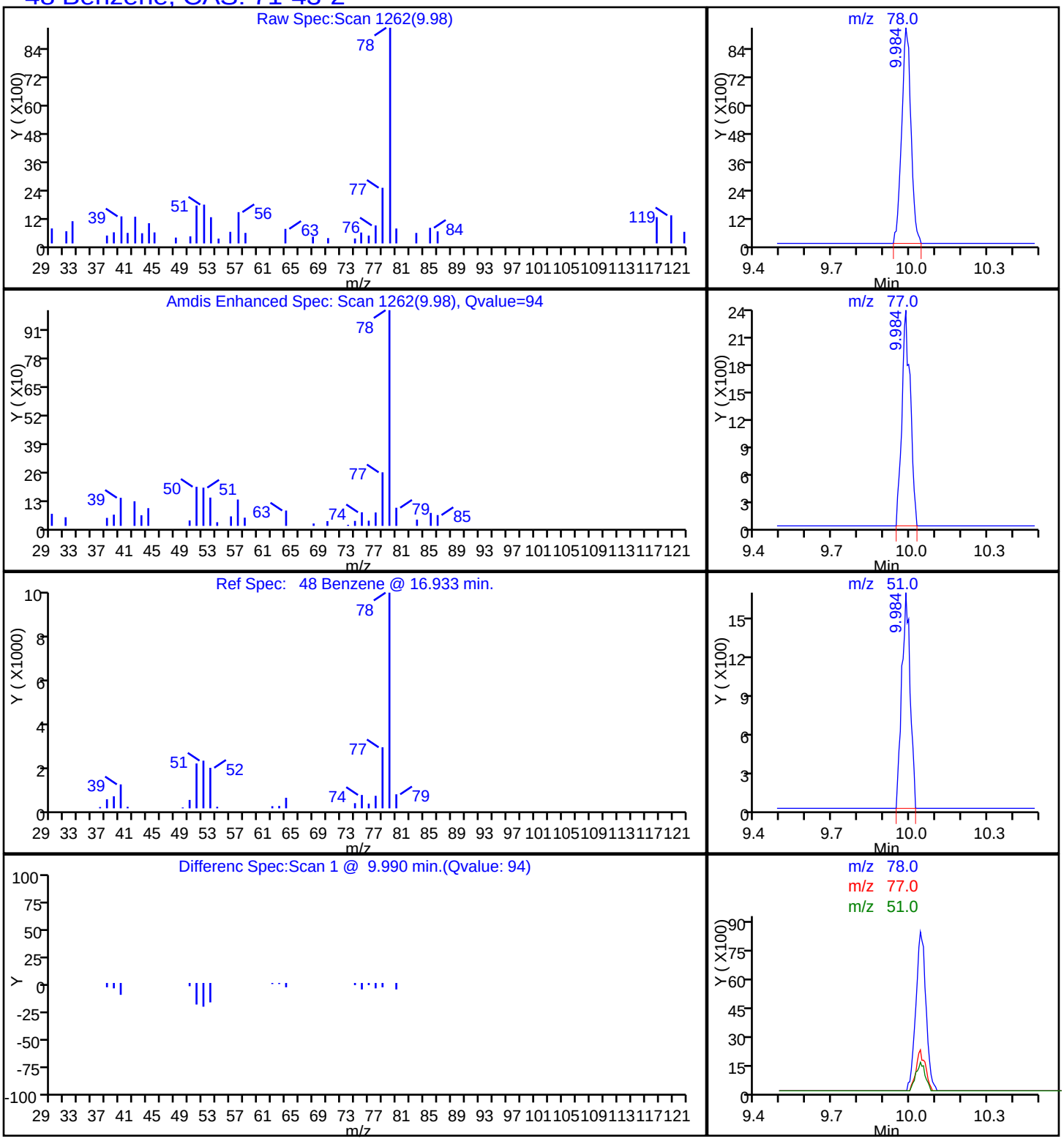
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



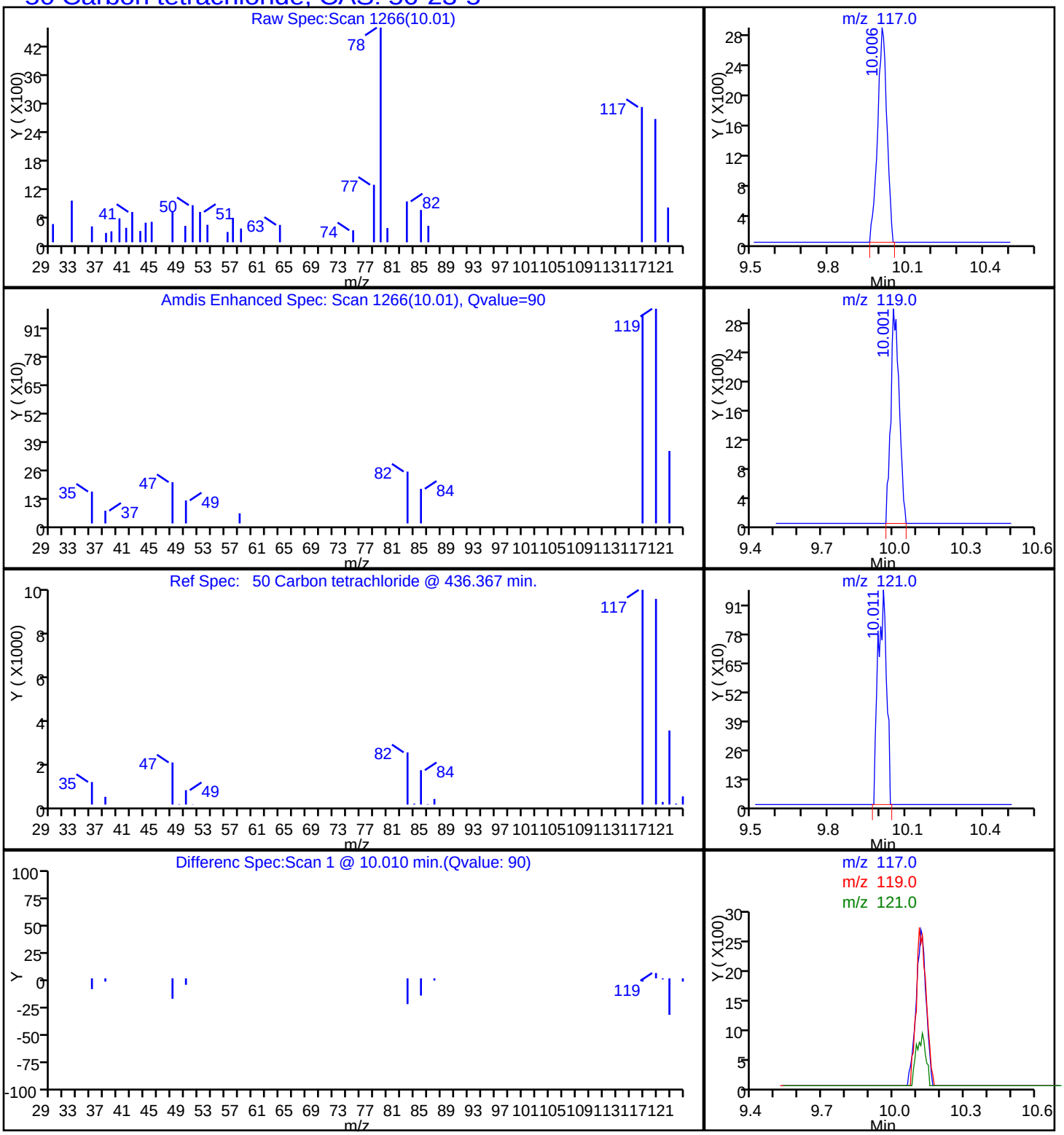
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

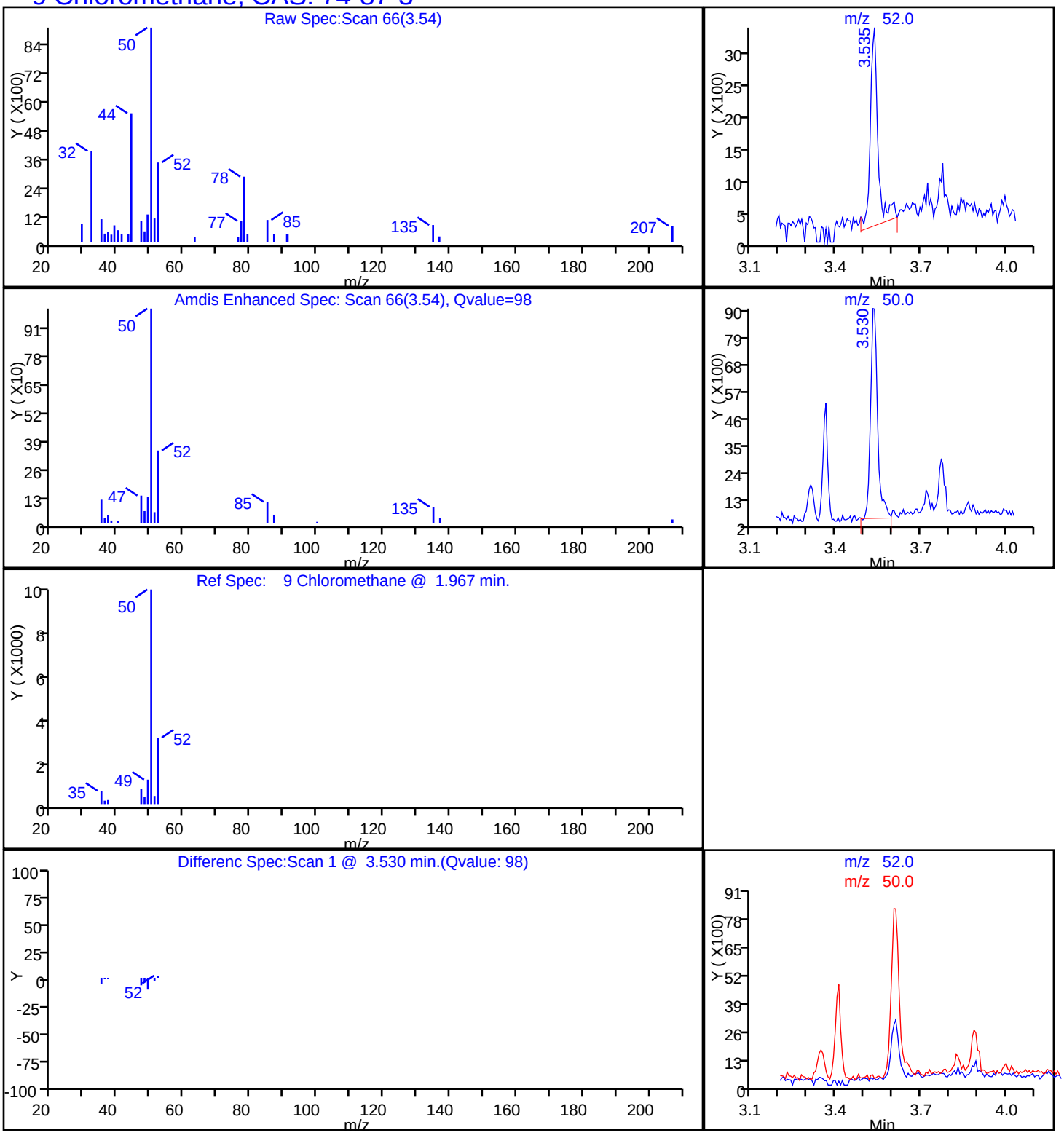
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

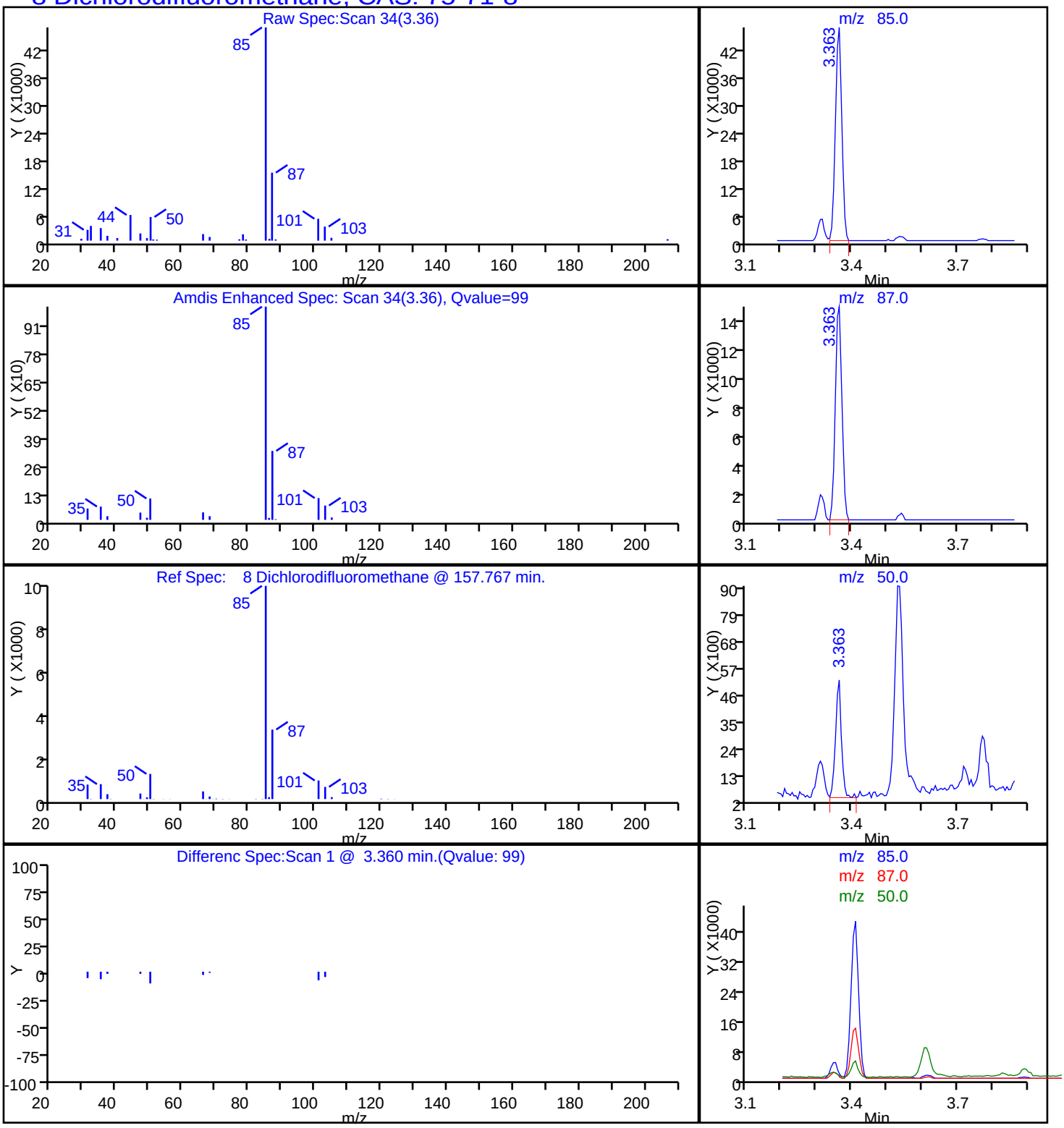
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8

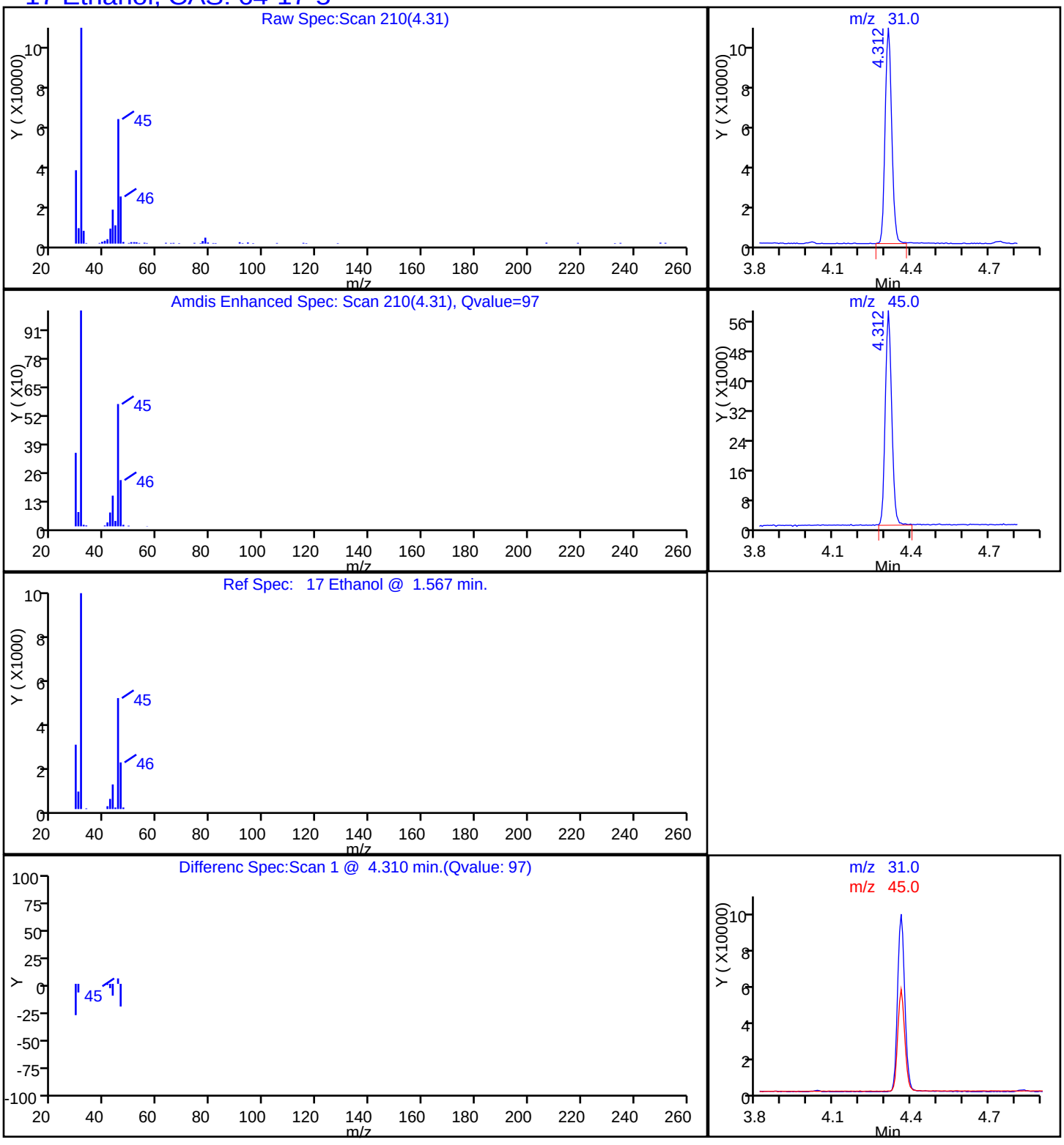


Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D				
Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

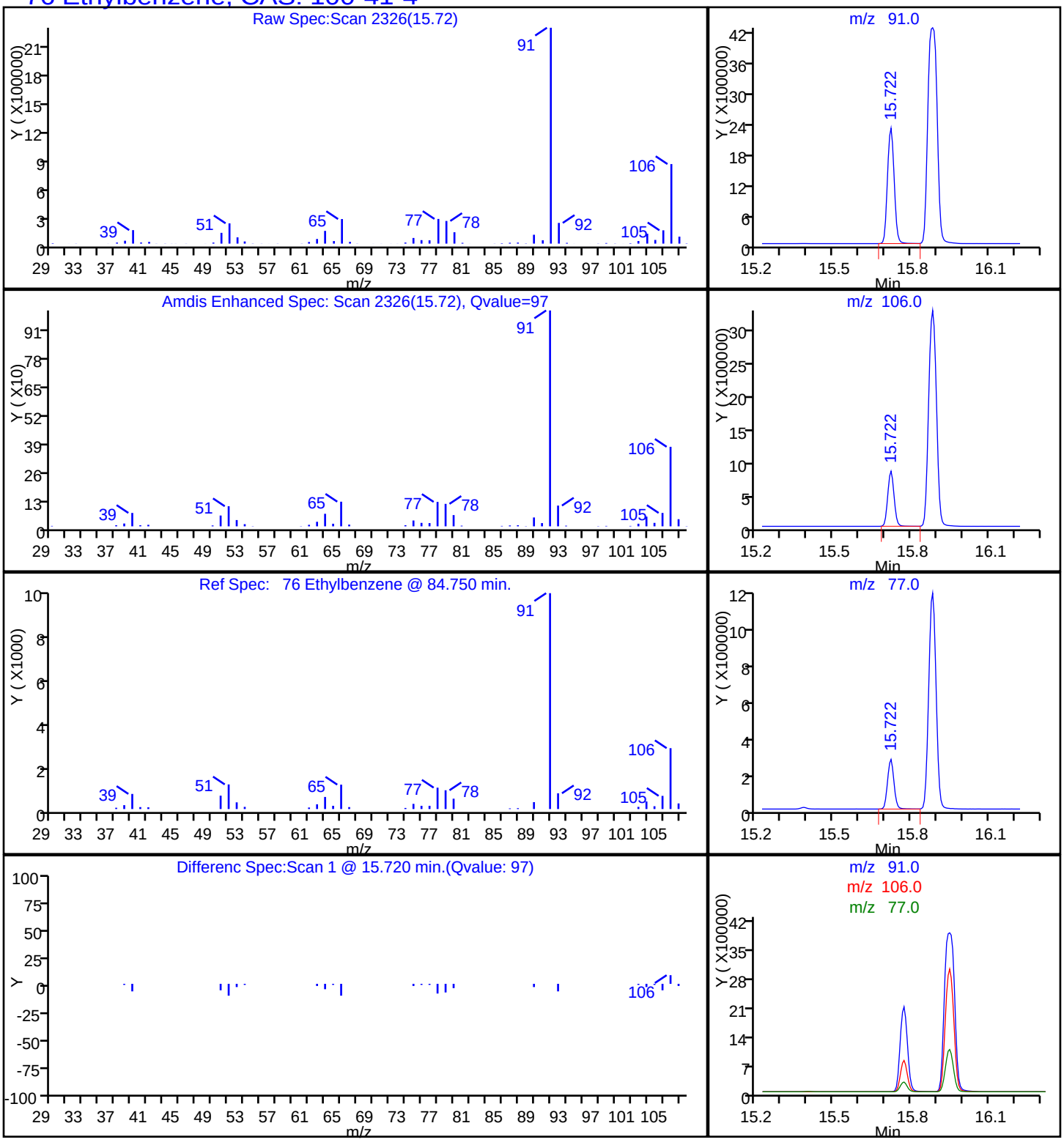
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

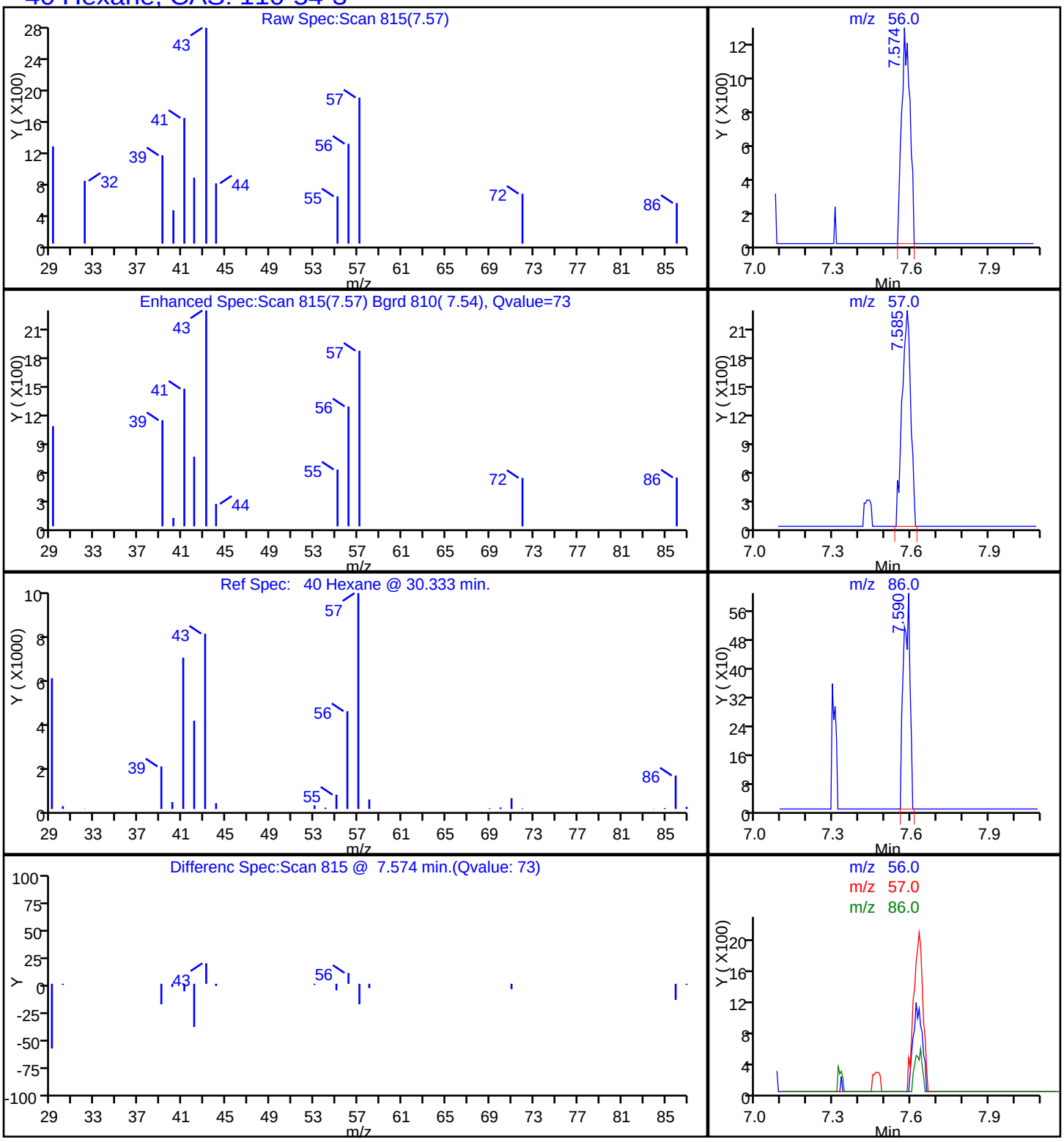
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3



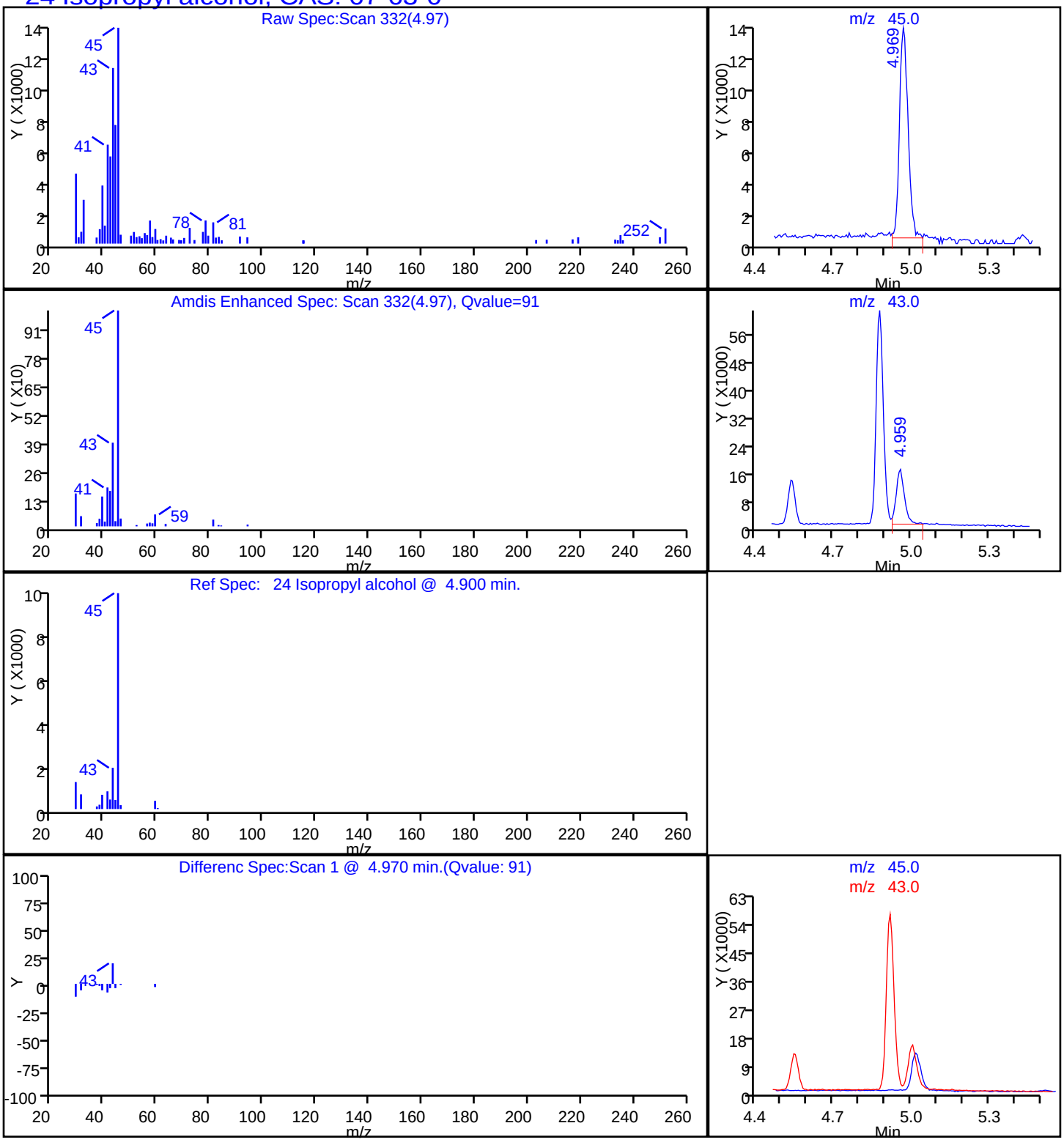
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



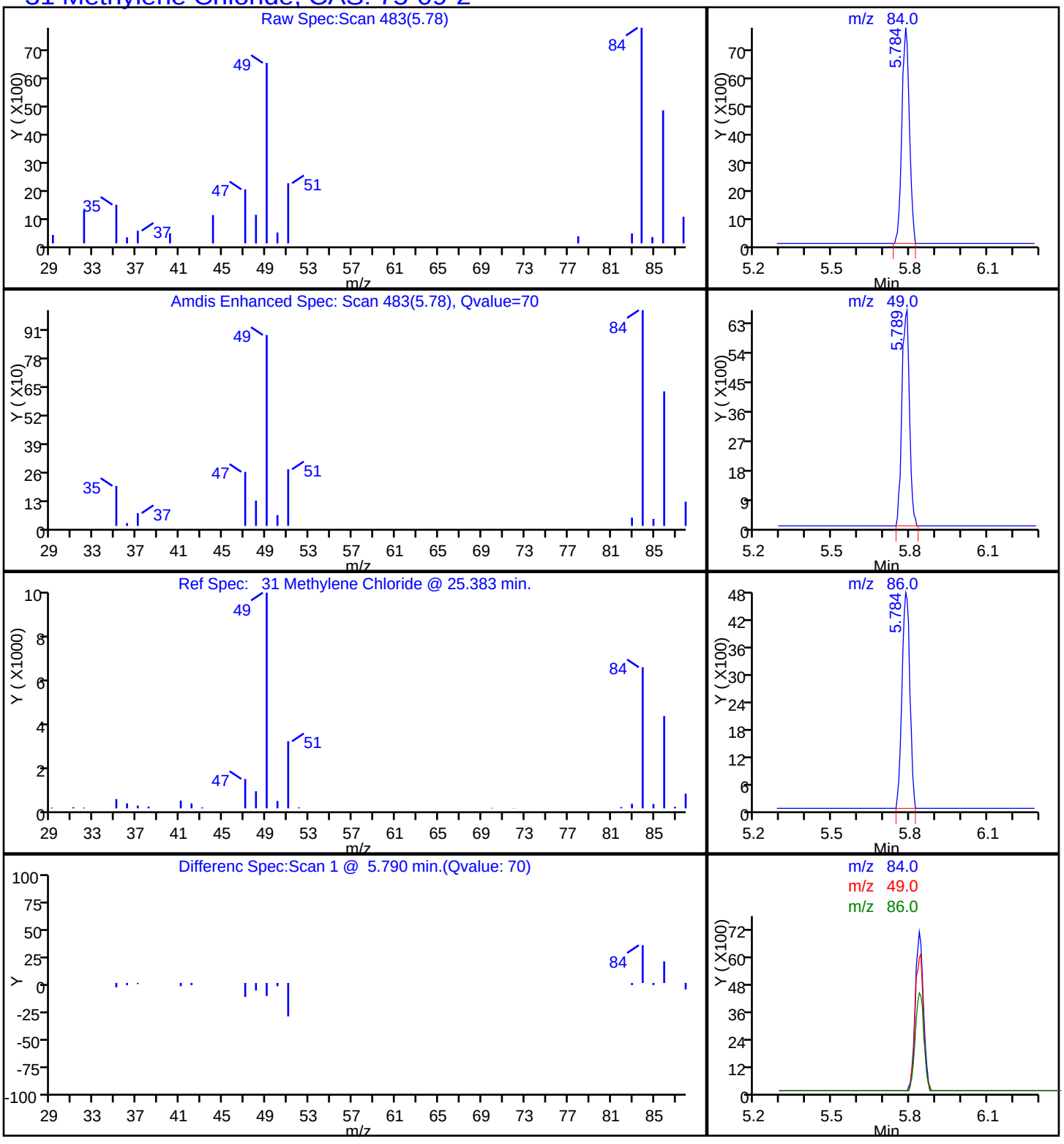
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



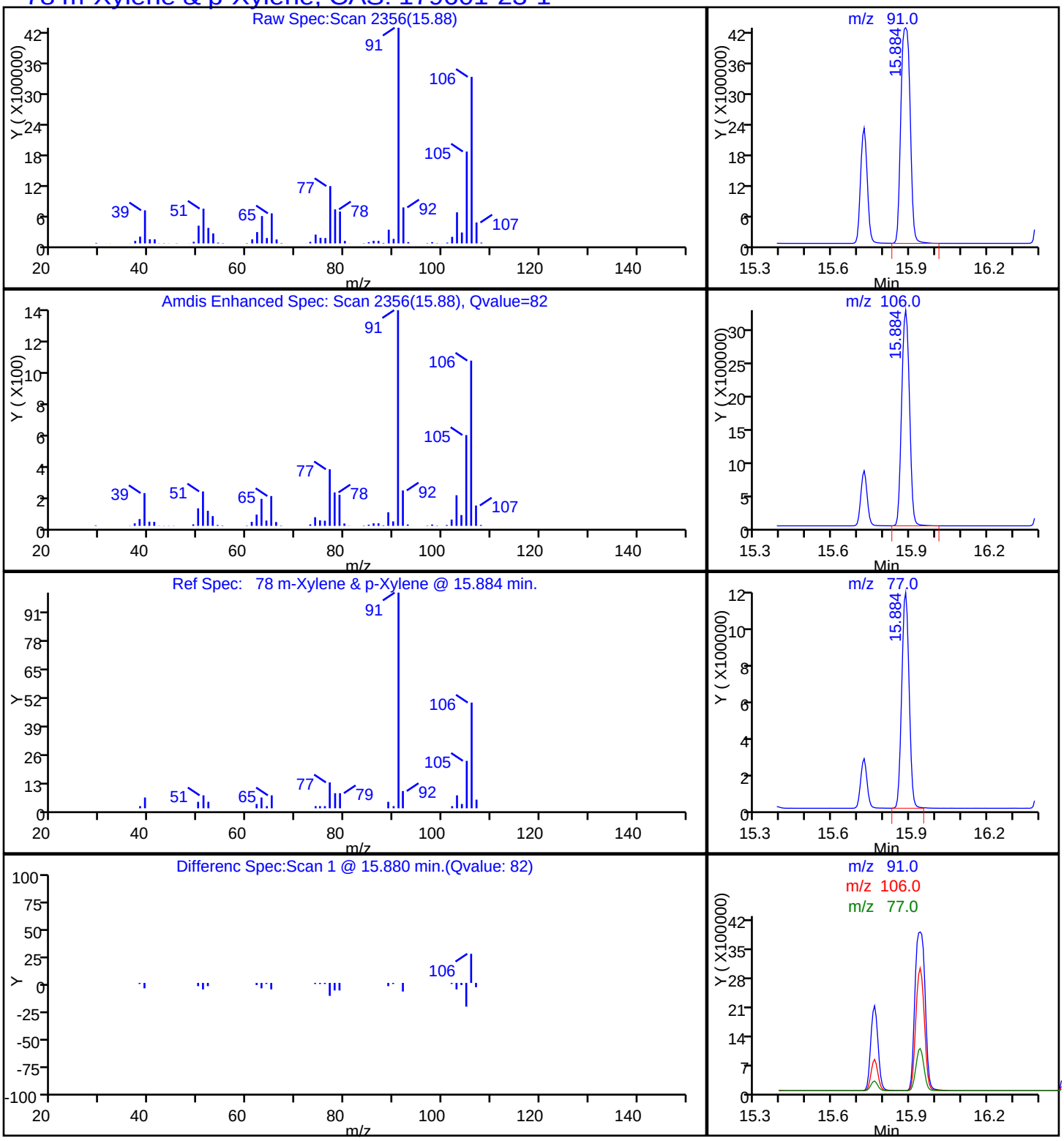
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



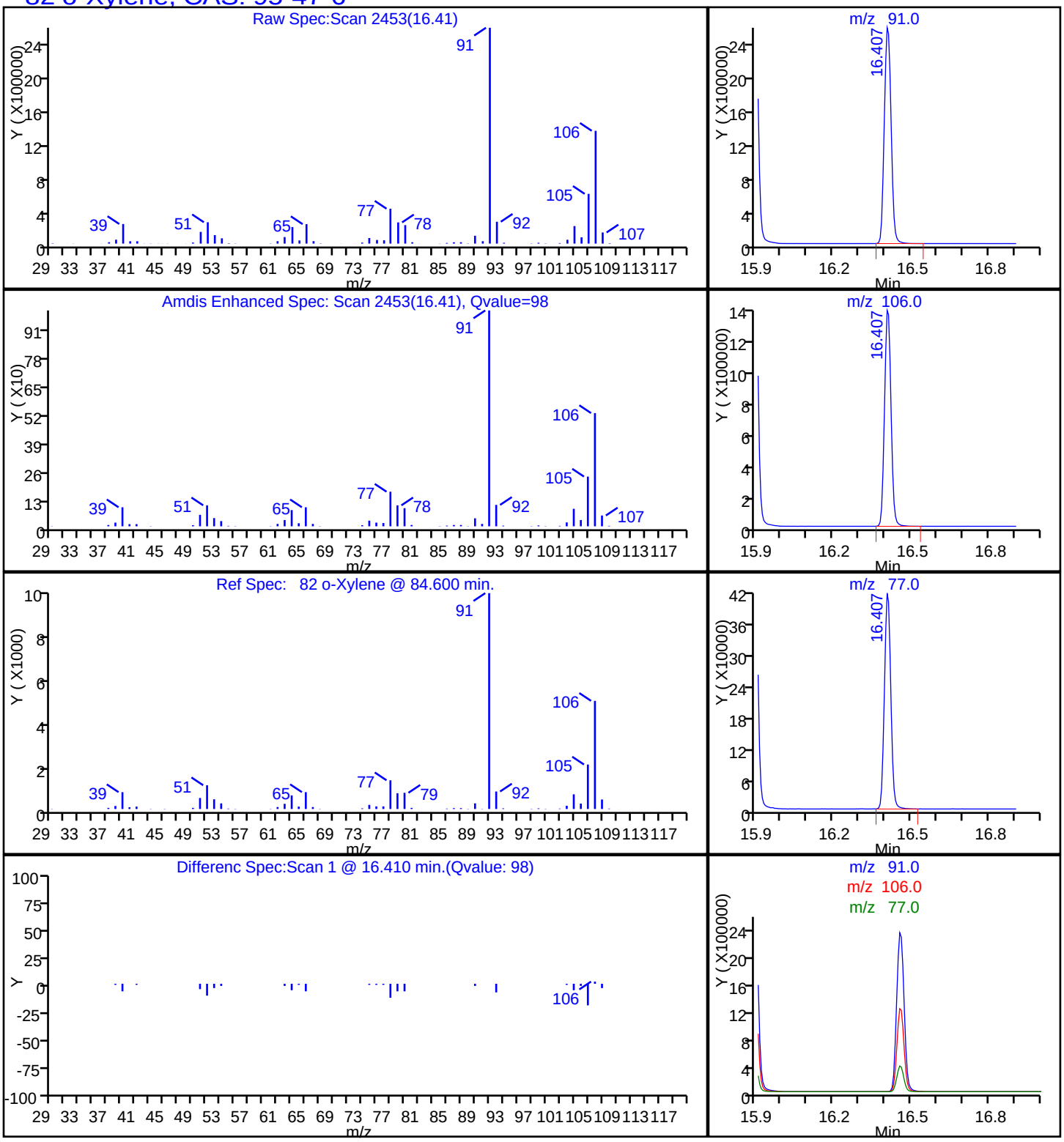
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

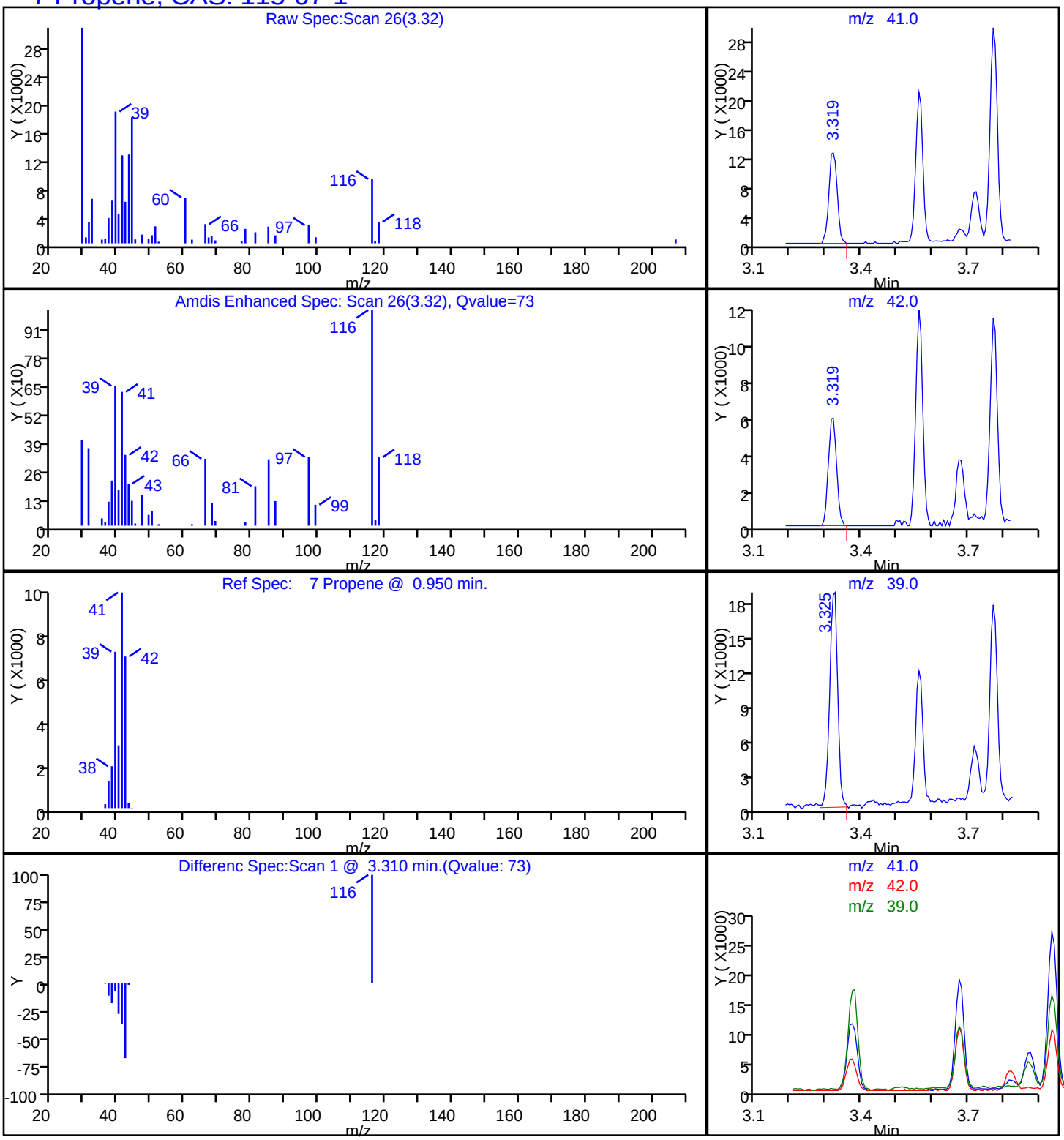
82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D		
Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date: 21-Mar-2014 04:33:30 Instrument ID: ME

Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18

Client ID: PCV-IA1-B8

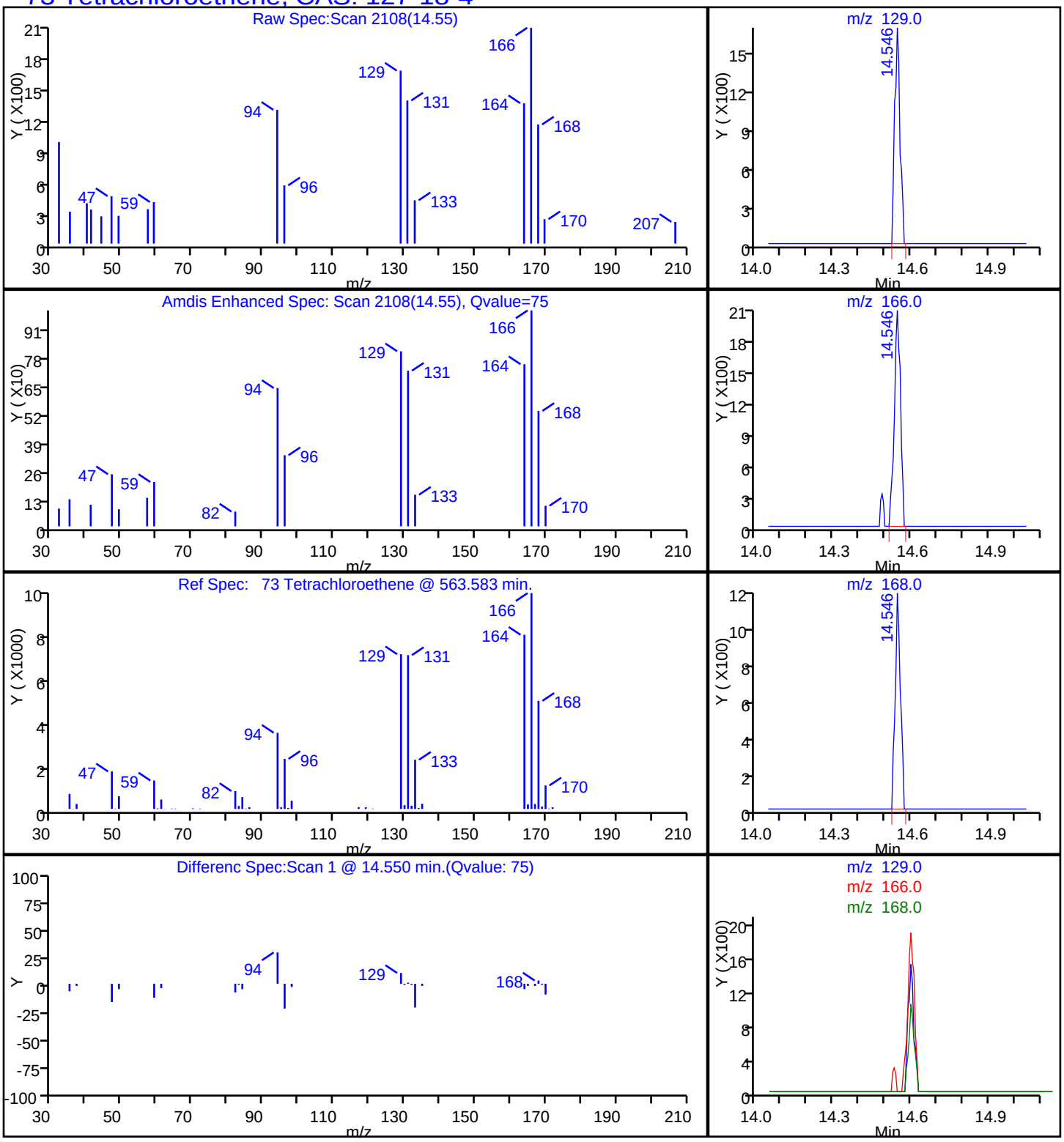
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



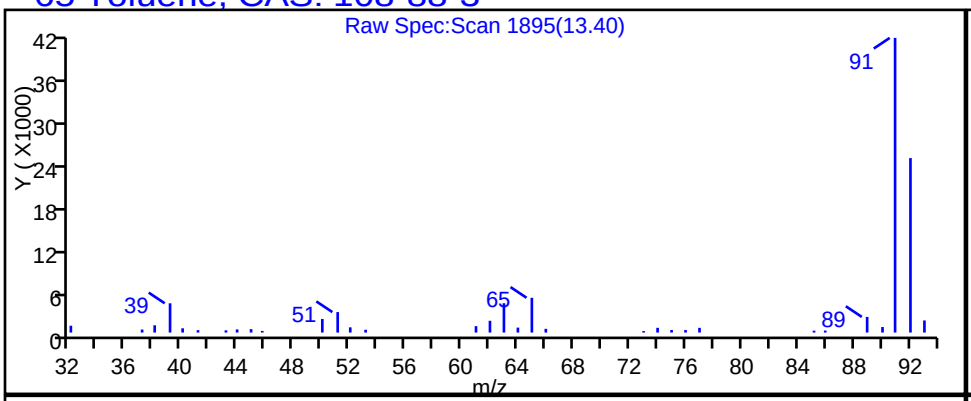
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

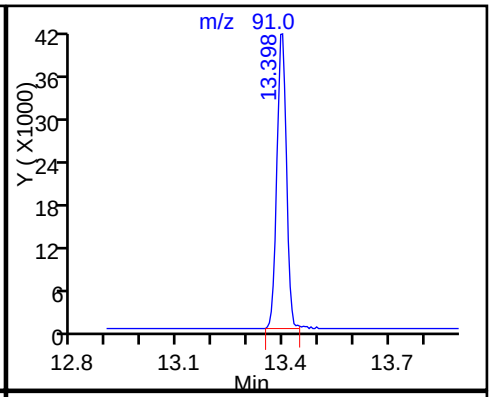
TestAmerica Knoxville

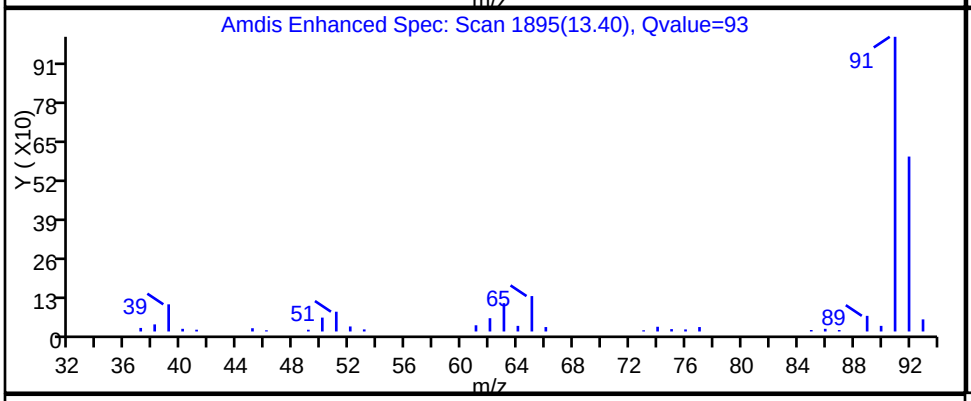
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

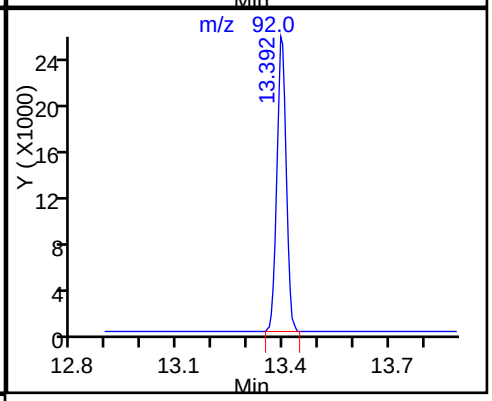
Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

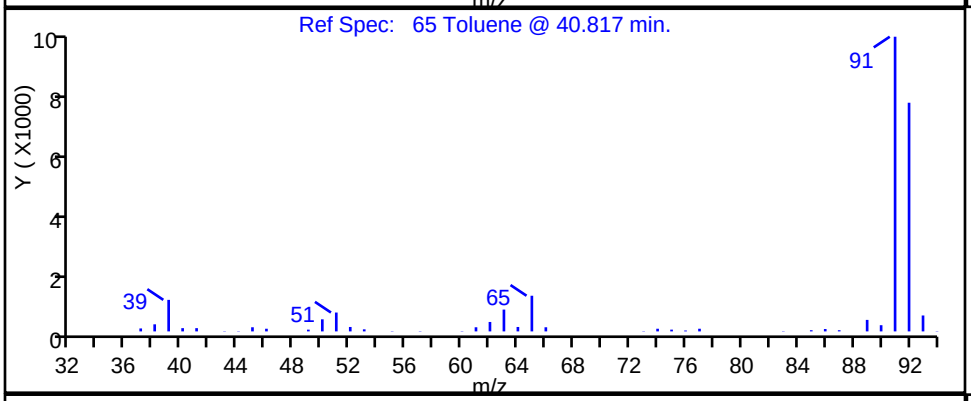
65 Toluene, CAS: 108-88-3

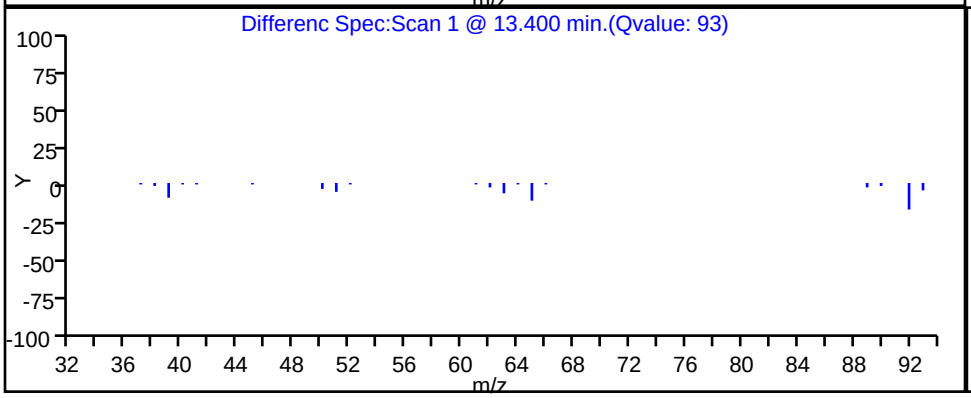


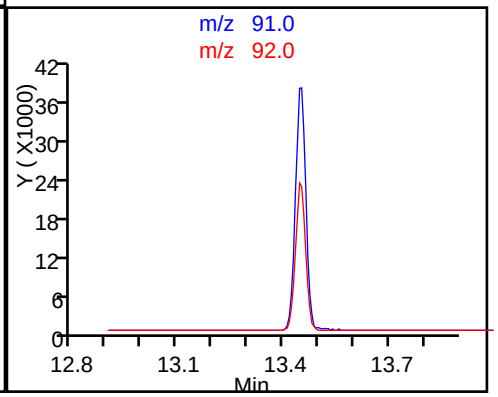












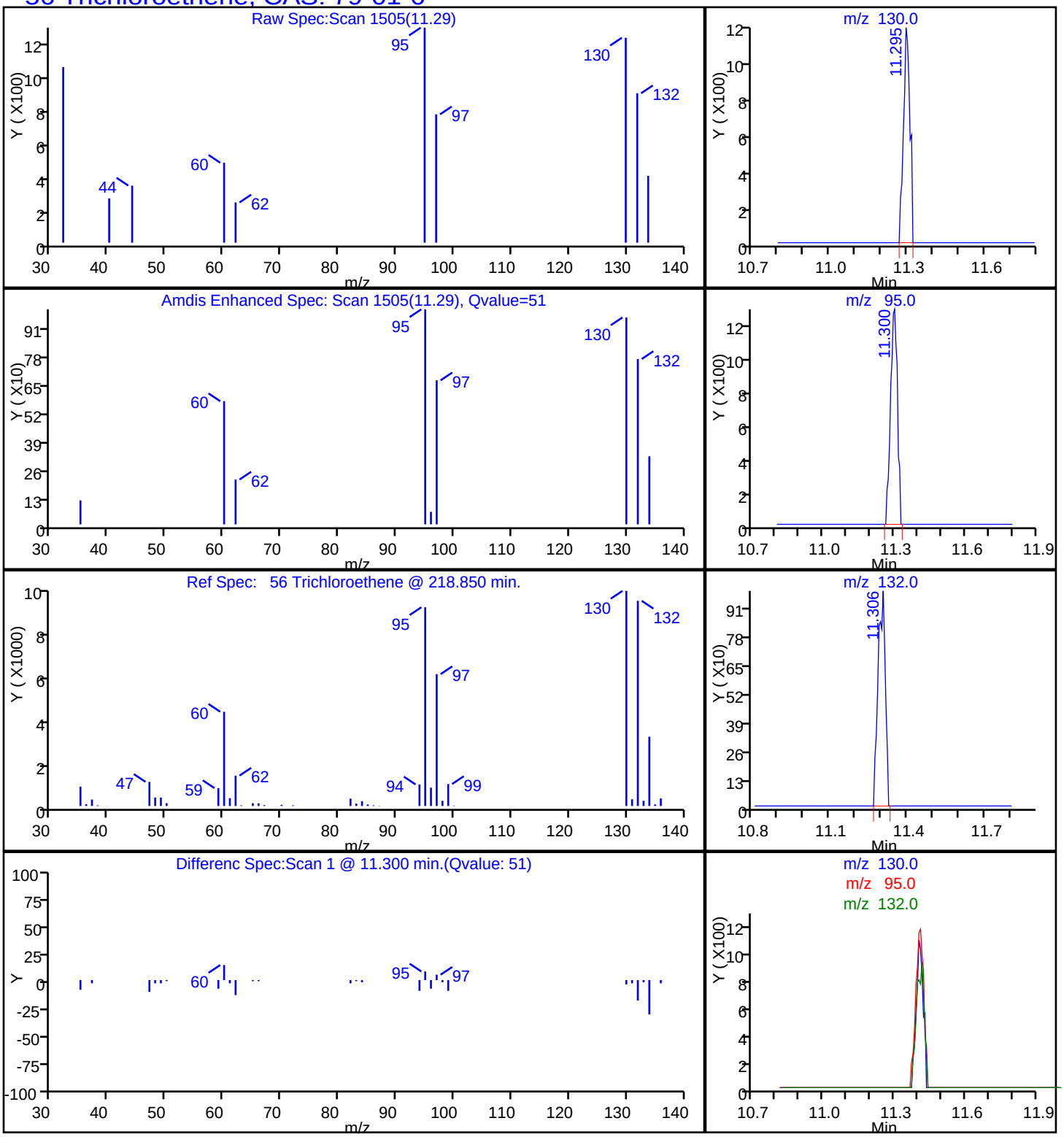
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18
Client ID:	PCV-IA1-B8		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

56 Trichloroethene, CAS: 79-01-6



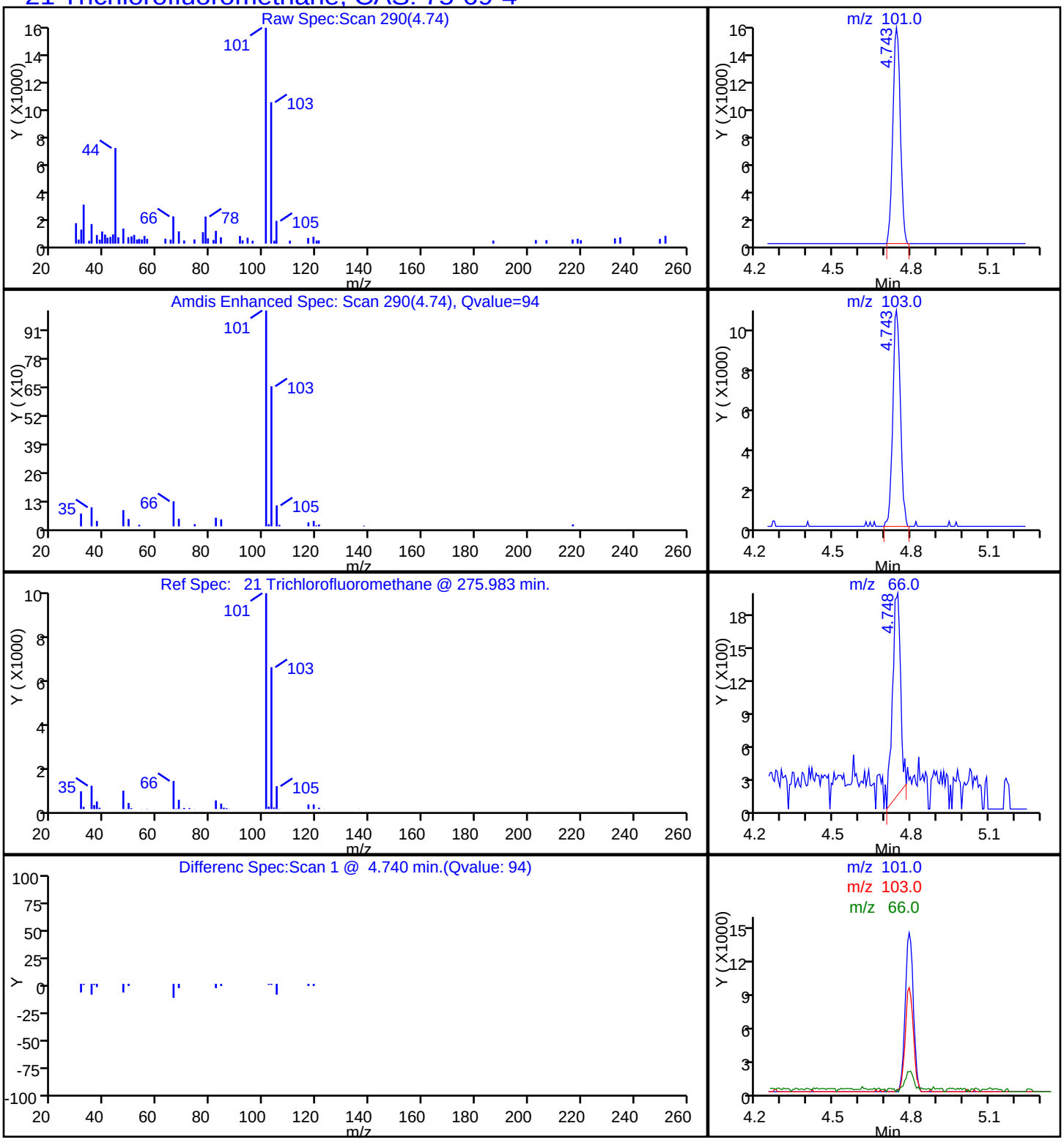
Report Date: 21-Mar-2014 09:48:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P201.D

Injection Date:	21-Mar-2014 04:33:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 DL Lab Sample ID: 140-1060-18 DL

Matrix: Air Lab File ID: EC24P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	106.17	100		0.40	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B8 DL Lab Sample ID: 140-1060-18 DL

Matrix: Air Lab File ID: EC24P110.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:45

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	106.17	450		1.7	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P110.D
Lims ID: 140-1060-A-18 Lab Sample ID: 140-1060-18
Client ID: PCV-IA1-B8
Sample Type: Client
Inject. Date: 24-Mar-2014 18:24:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-18
Misc. Info.: E032414,TO155,,140-0000541-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:24:29

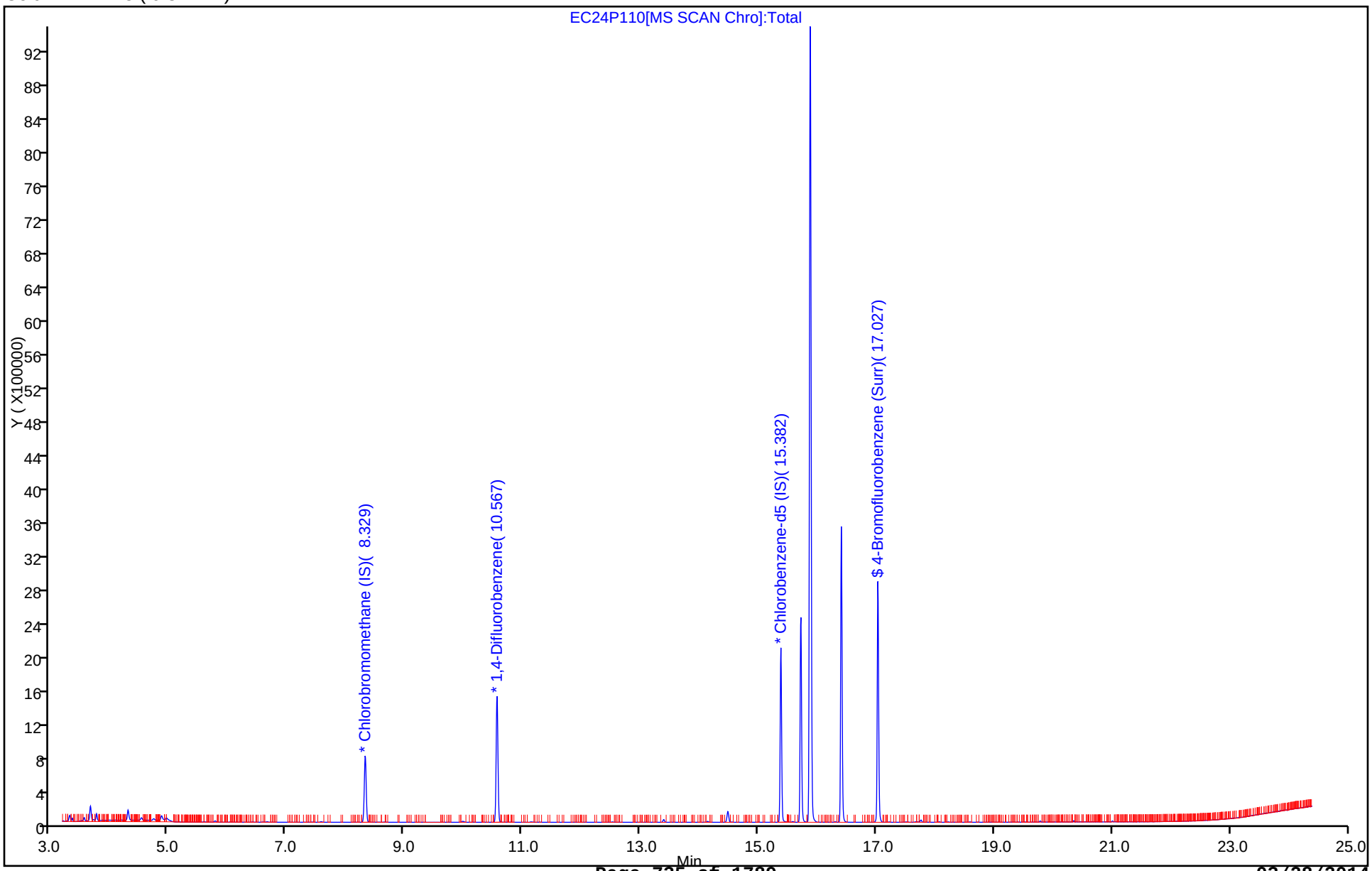
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	261890	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1266855	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1083570	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	917249	3.87	
7 Propene	41	3.319	3.314	0.005	68	9420	0.1430	
8 Dichlorodifluoromethane	85	3.362	3.357	0.005	99	29284	0.1011	
9 Chloromethane	52	3.535	3.530	0.005	93	2736	0.1183	
17 Ethanol	31	4.306	4.312	-0.006	97	89187	3.40	
19 2-Methylbutane	43	4.533	4.533	0.0	86	10429	0.1137	
21 Trichlorofluoromethane	101	4.738	4.743	-0.005	94	14925	0.0514	
23 Acetone	58	4.872	4.878	-0.006	92	23055	0.5812	
24 Isopropyl alcohol	45	4.975	4.969	0.006	89	18707	0.1832	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	50	2372	0.0132	
31 Methylene Chloride	84	5.789	5.789	0.0	66	8697	0.1162	
40 Hexane	56	7.569	7.579	-0.010	62	1052	0.0151	
48 Benzene	78	9.979	9.990	-0.011	83	7807	0.0306	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	84	3198	0.0213	
65 Toluene	91	13.398	13.398	0.0	87	25817	0.0889	
76 Ethylbenzene	91	15.722	15.722	0.0	98	1749924	4.70	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	94	6026742	20.6	
80 Styrene	104	16.407	16.347	0.060	48	53042	0.2619	
82 o-Xylene	91	16.407	16.407	0.0	99	2137661	6.76	

Report Date: 25-Mar-2014 07:24:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P110.D				
Injection Date:	24-Mar-2014 18:24:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18	Worklist Smp#:	13
Client ID:	PCV-IA1-B8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

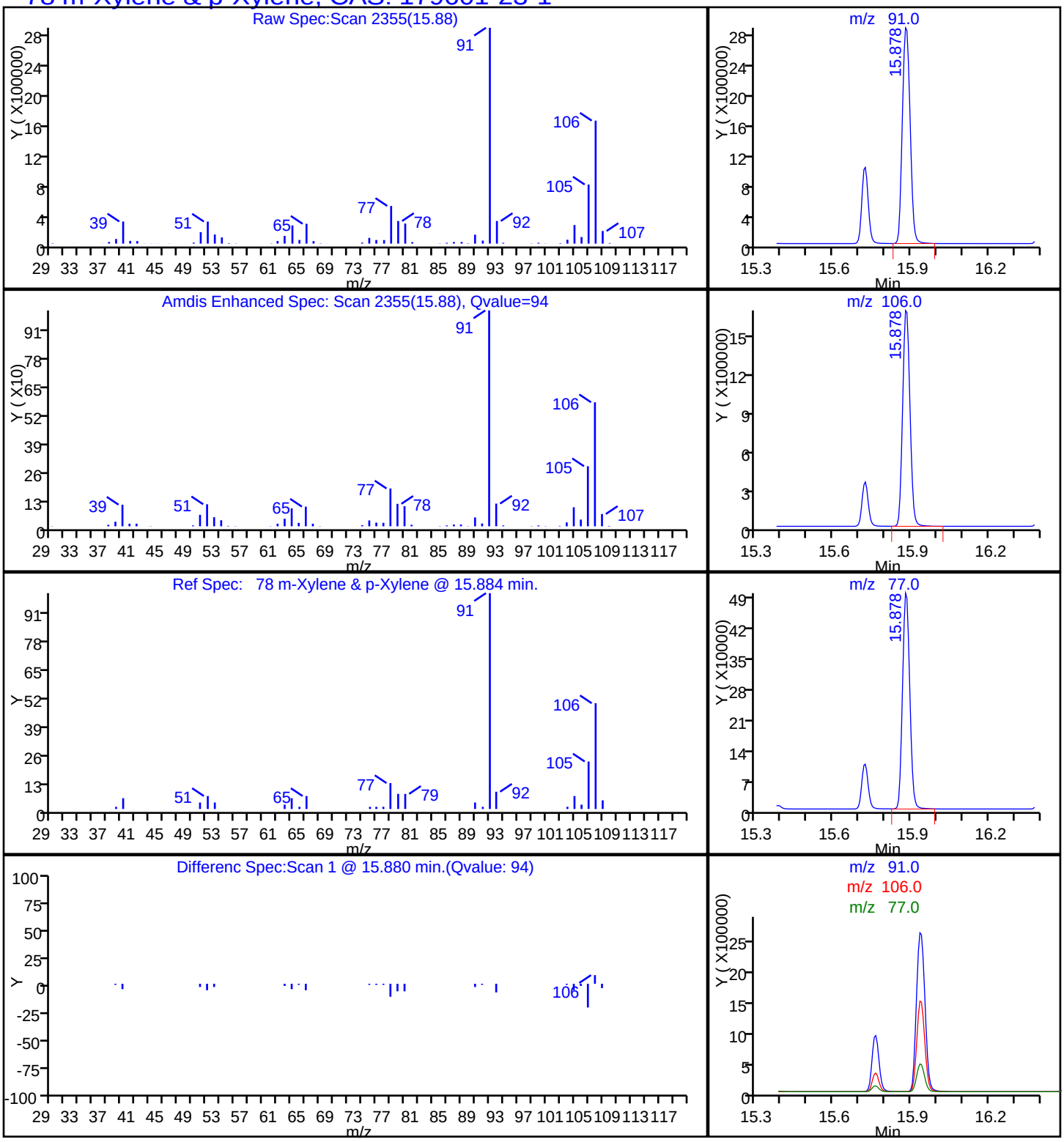


Report Date: 25-Mar-2014 07:24:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P110.D				
Injection Date:	24-Mar-2014 18:24:30	Instrument ID:	ME		
Lims ID:	140-1060-A-18	Lab Sample ID:	140-1060-18		
Client ID:	PCV-IA1-B8				
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.069	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.091	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.23	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.97		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.070	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.76		0.50	0.045
67-64-1	Acetone	58.08	3.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.25		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.51		0.20	0.068
64-17-5	Ethanol	46.07	21		2.0	2.0
100-41-4	Ethylbenzene	106.17	31		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.89	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.78		0.50	0.13
179601-23-1	*m-Xylene & p-Xylene*	*106.17*	*88*	*E*	*0.20*	*0.12*
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	41		0.20	0.061
115-07-1	Propene	42.08	0.96	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.78		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.20	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.68	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.35	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.1		2.0	0.18
67-64-1	Acetone	58.08	9.1	J	12	3.3
71-43-2	Benzene	78.11	0.79		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	40		3.8	3.8
100-41-4	Ethylbenzene	106.17	130		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.55	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.2	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.7		1.7	0.45
179601-23-1	*m-Xylene & p-Xylene*	*106.17*	*380*	*E*	*0.87*	*0.52*
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	180		0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 Lab Sample ID: 140-1060-19

Matrix: Air Lab File ID: EC20P202.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 05:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D
Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19
Client ID: PCV-IA1FD-B8
Sample Type: Client
Inject. Date: 21-Mar-2014 05:18:30 ALS Bottle#: 2 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-19
Misc. Info.: E032014,TO155,,140-0000533-022
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:49:48 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:49:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	68	273395	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1327988	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1237737	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	1123523	4.15	
7 Propene	41	3.319	3.314	0.005	79	26315	0.3826	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	99	61555	0.2035	
9 Chloromethane	52	3.535	3.530	0.005	98	5782	0.2395	
13 Butadiene	54	3.778	3.772	0.006	28	2338	0.0363	
17 Ethanol	31	4.312	4.317	-0.005	98	234752	8.59	
19 2-Methylbutane	43	4.538	4.538	0.0	85	37256	0.3891	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	95	33397	0.1101	
23 Acetone	58	4.878	4.883	-0.005	92	63285	1.53	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	90	37814	0.3547	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	81	5145	0.0274	
31 Methylene Chloride	84	5.784	5.789	-0.005	73	24327	0.3114	
39 2-Butanone (MEK)	72	7.590	7.579	0.011	85	4151	0.0928	
40 Hexane	56	7.585	7.585	0.0	73	4569	0.0628	
48 Benzene	78	9.990	9.995	-0.005	94	26543	0.0993	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	91	7568	0.0295	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	90	48072	0.3054	
65 Toluene	91	13.398	13.398	0.0	93	103189	0.3112	
76 Ethylbenzene	91	15.722	15.722	0.0	97	5209839	12.3	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	97	11825307	35.4	EM
82 o-Xylene	91	16.412	16.412	0.0	97	5901100	16.3	E
88 4-Ethyltoluene	105	17.701	17.701	0.0	52	12851	0.0281	
93 1,2,4-Trimethylbenzene	105	18.218	18.224	-0.006	78	10519	0.0277	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

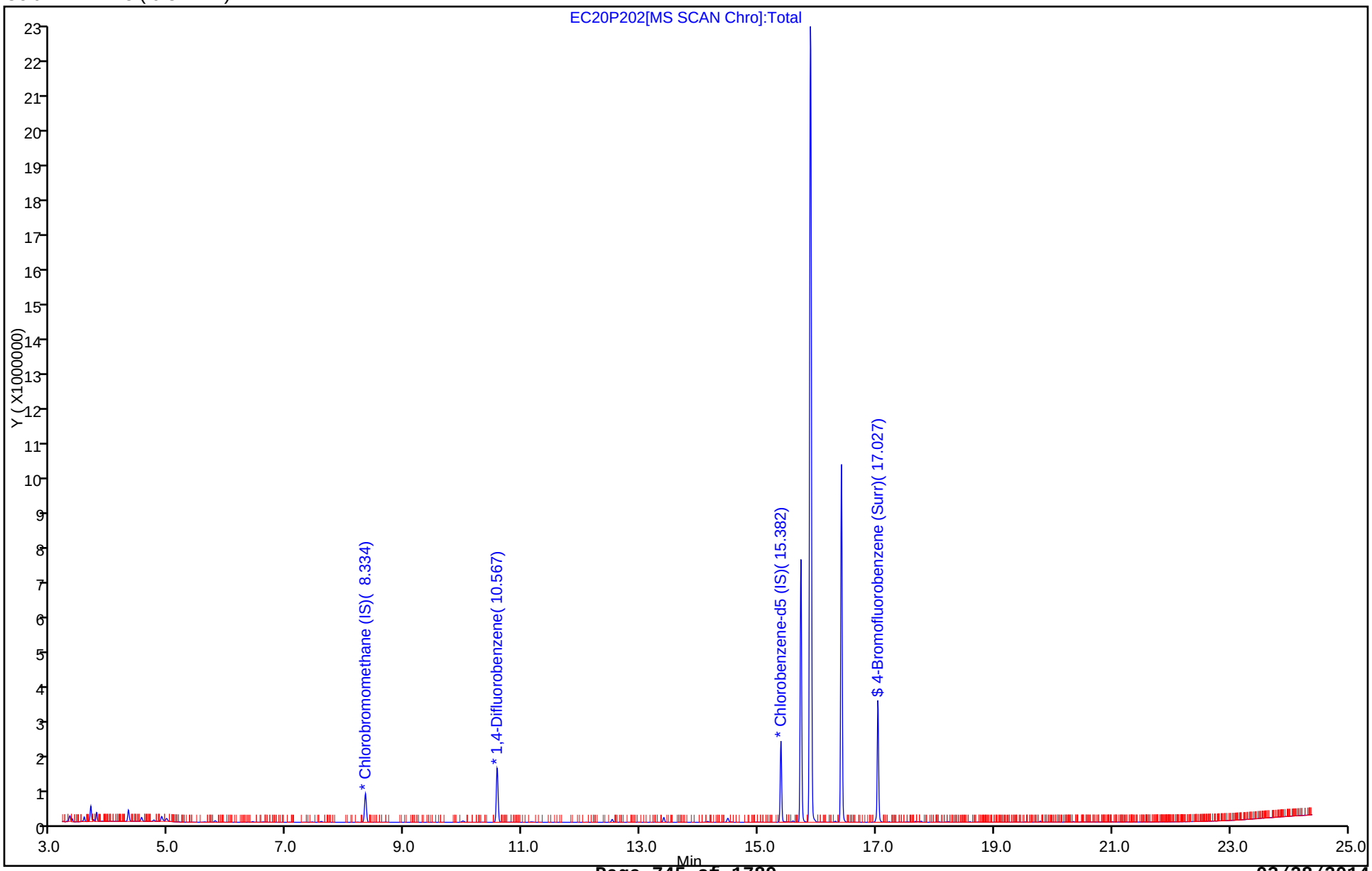
Report Date: 21-Mar-2014 09:49:48 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19	Worklist Smp#:	22
Client ID:	PCV-IA1FD-B8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

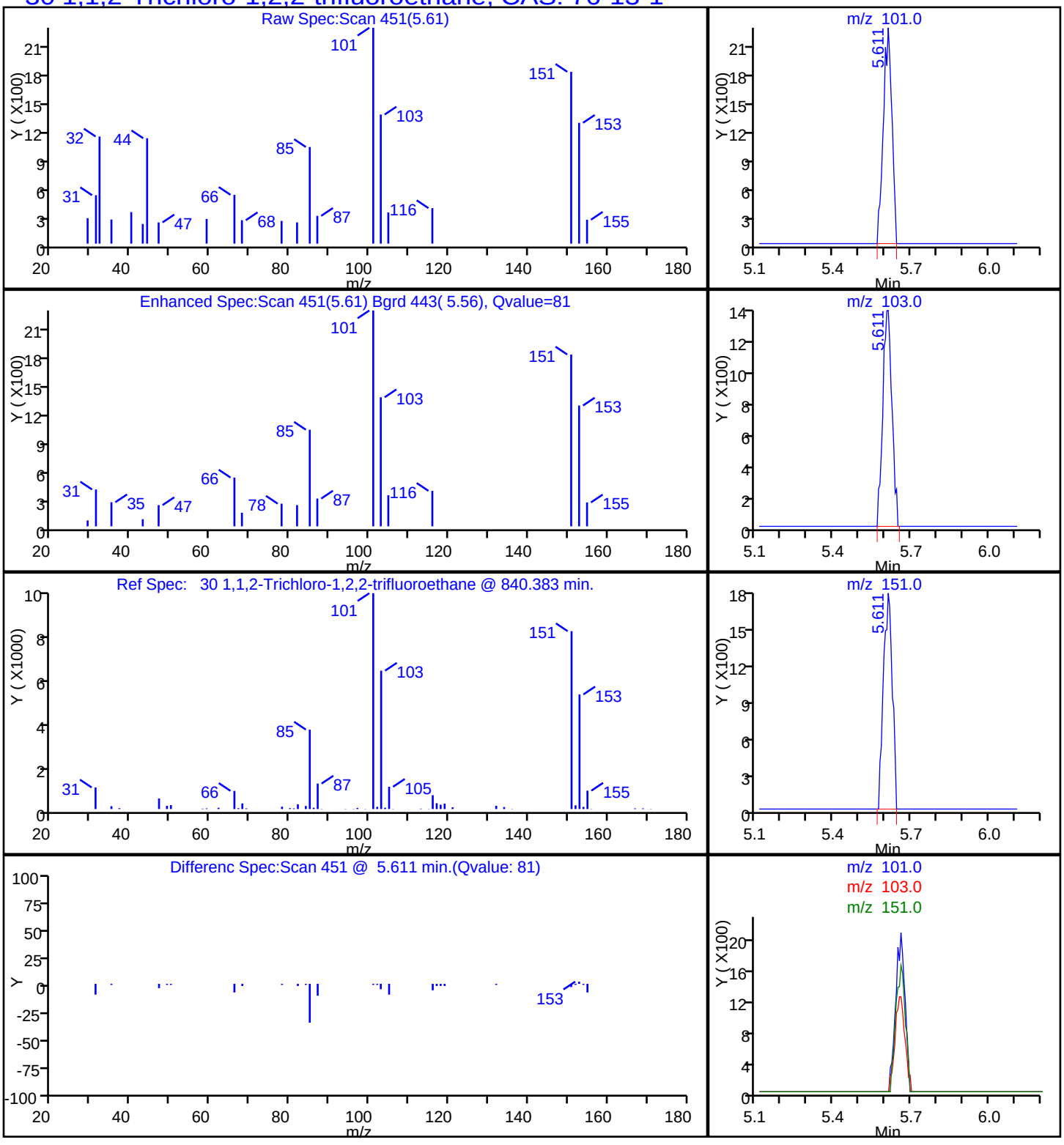
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

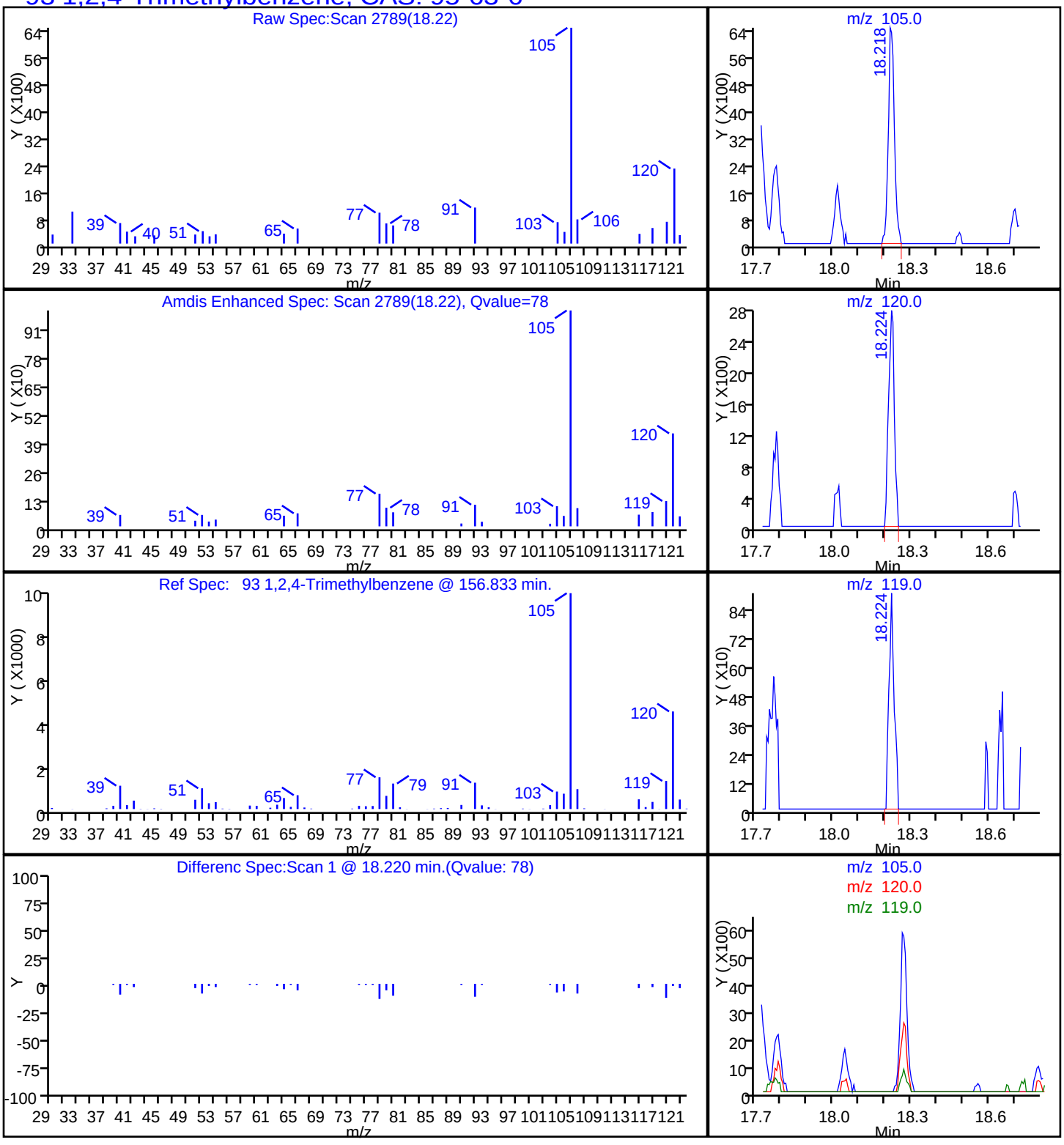


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

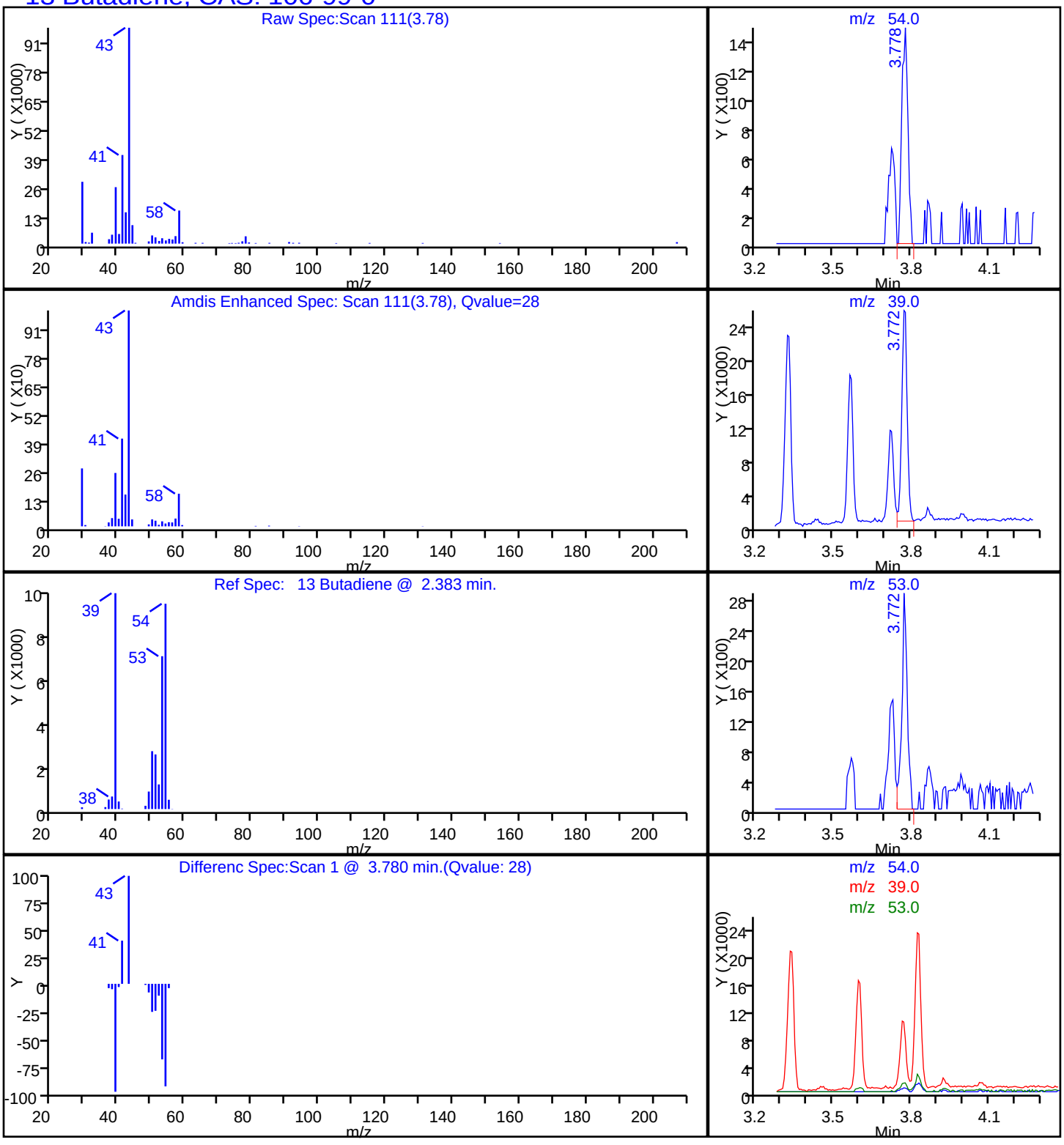
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

13 Butadiene, CAS: 106-99-0



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

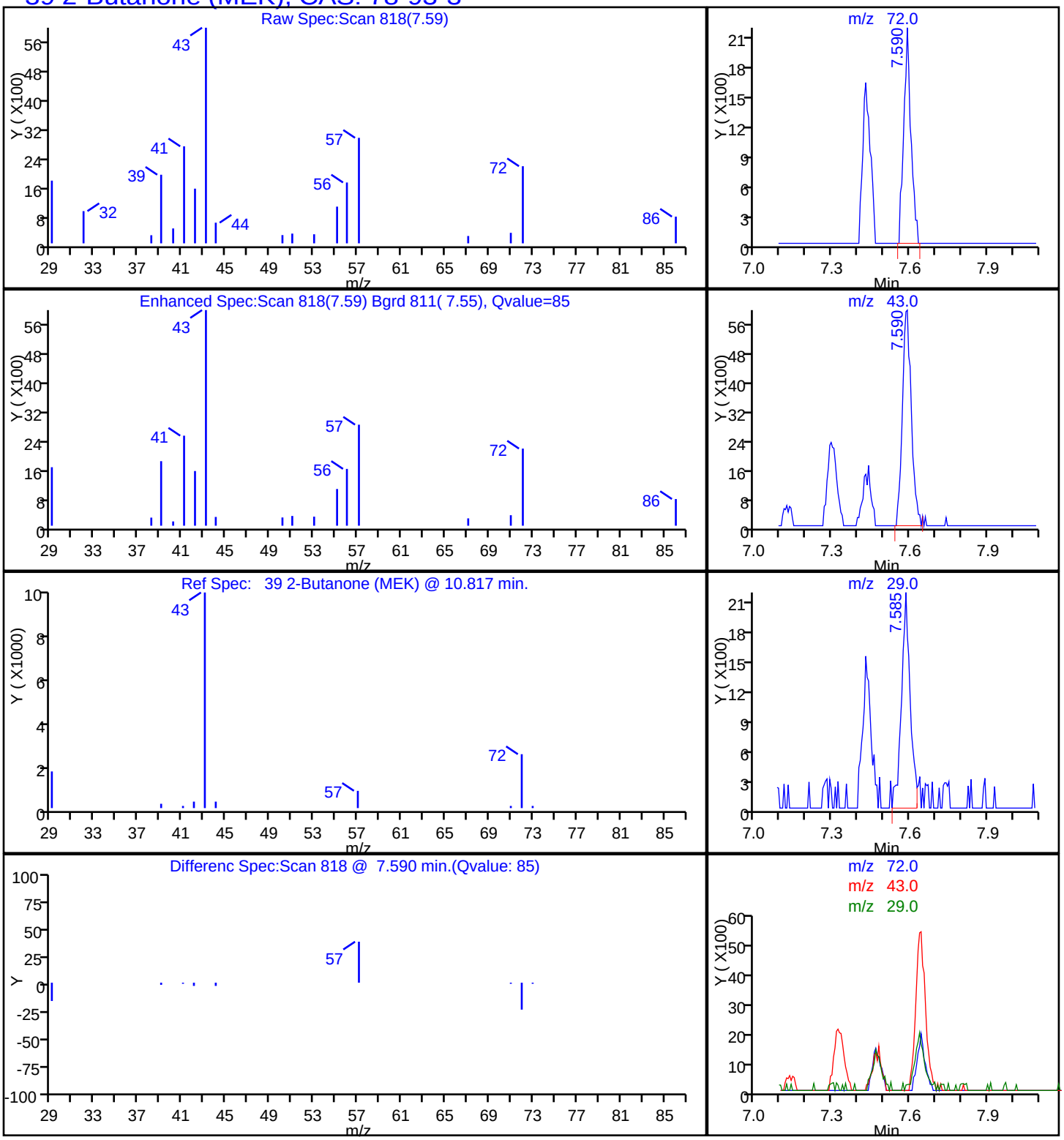
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

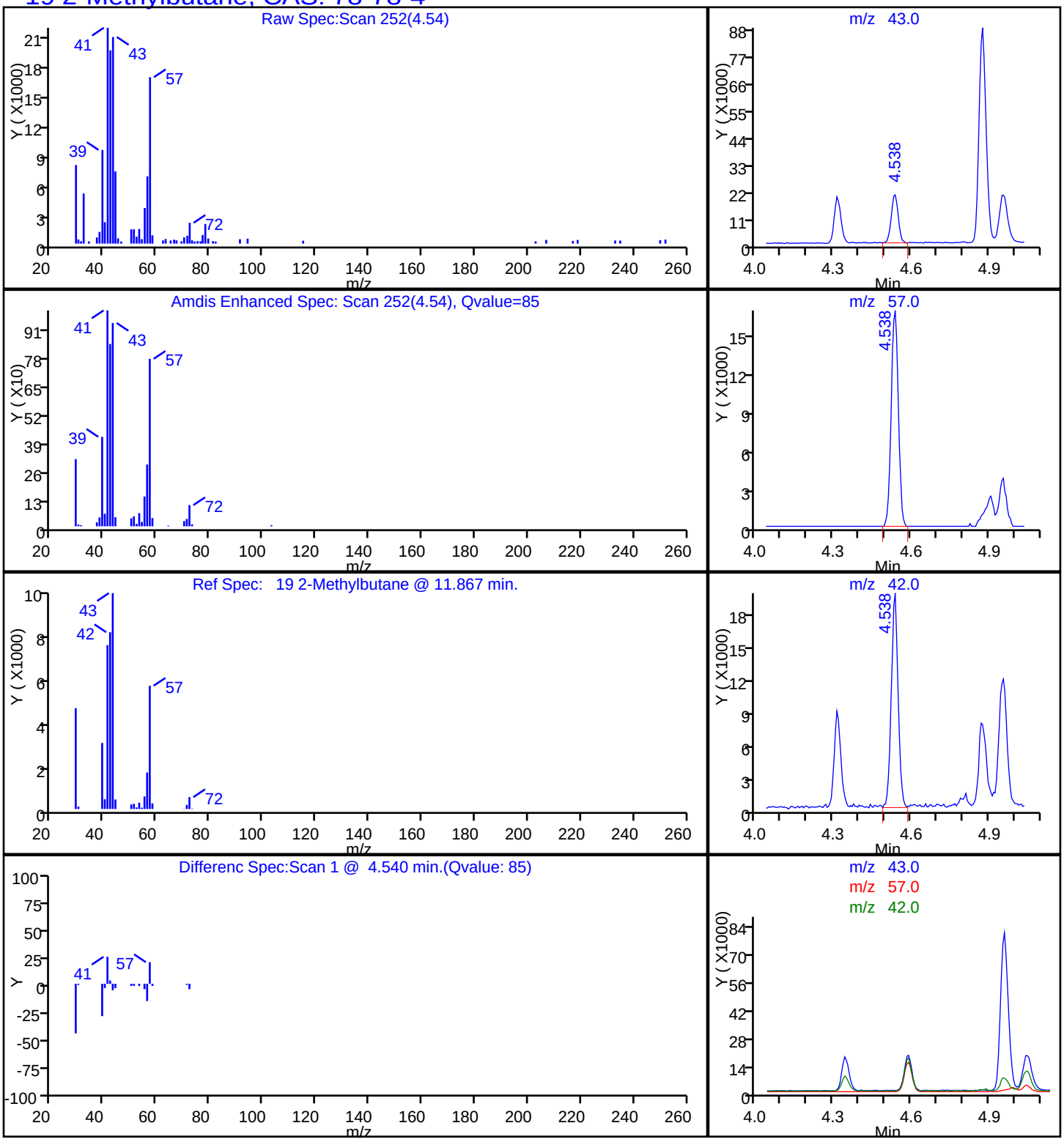
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4

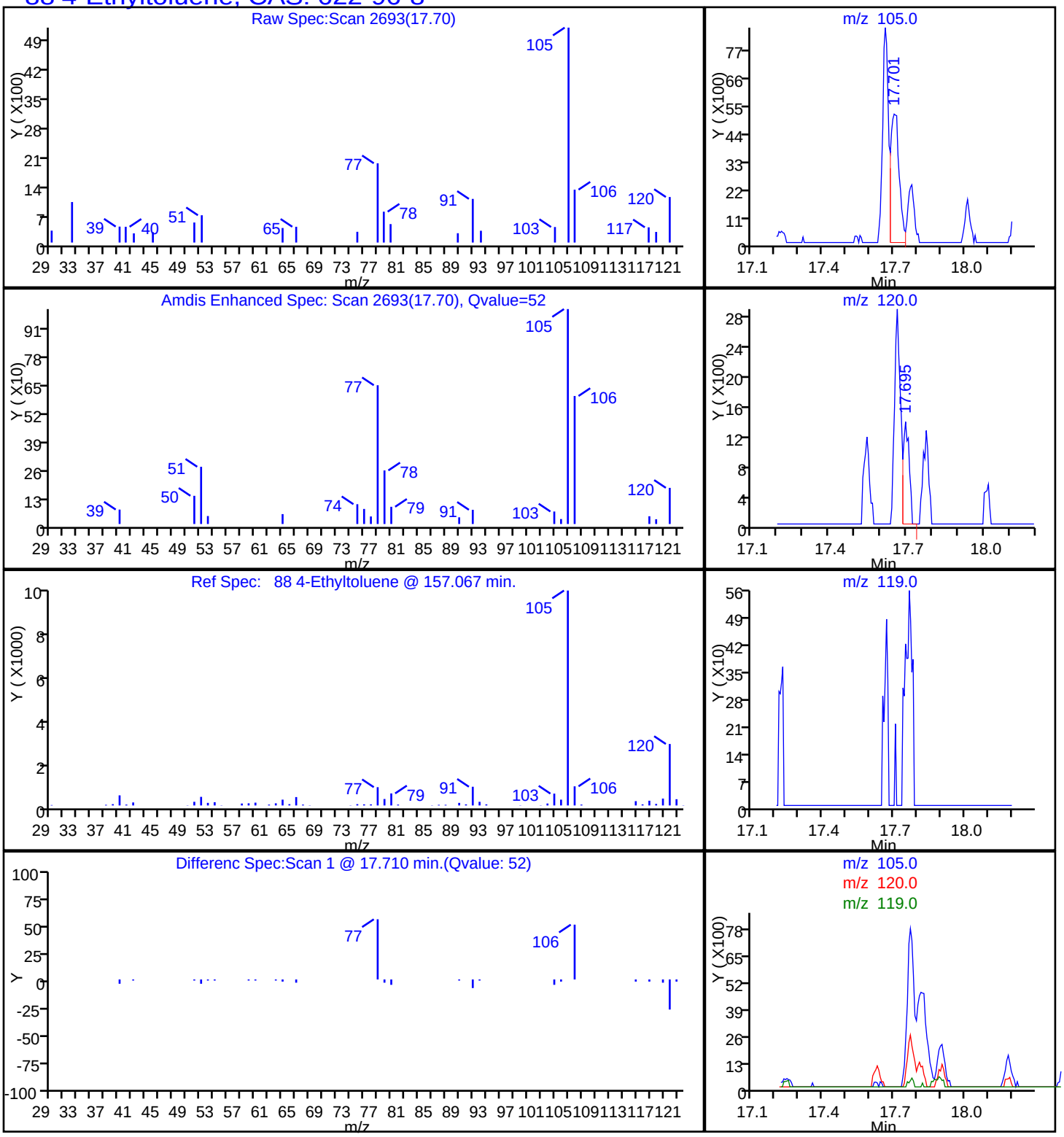


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

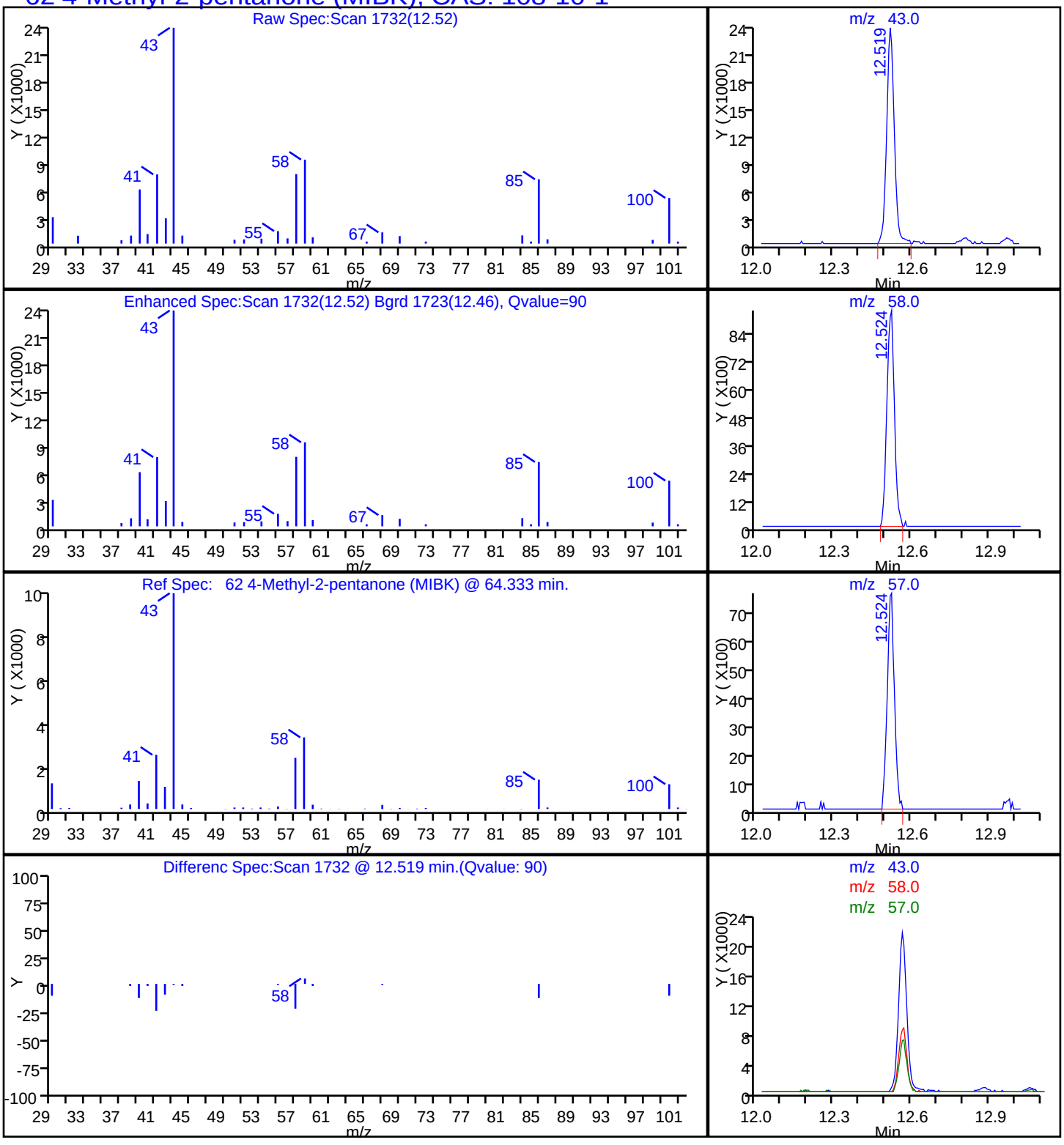
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



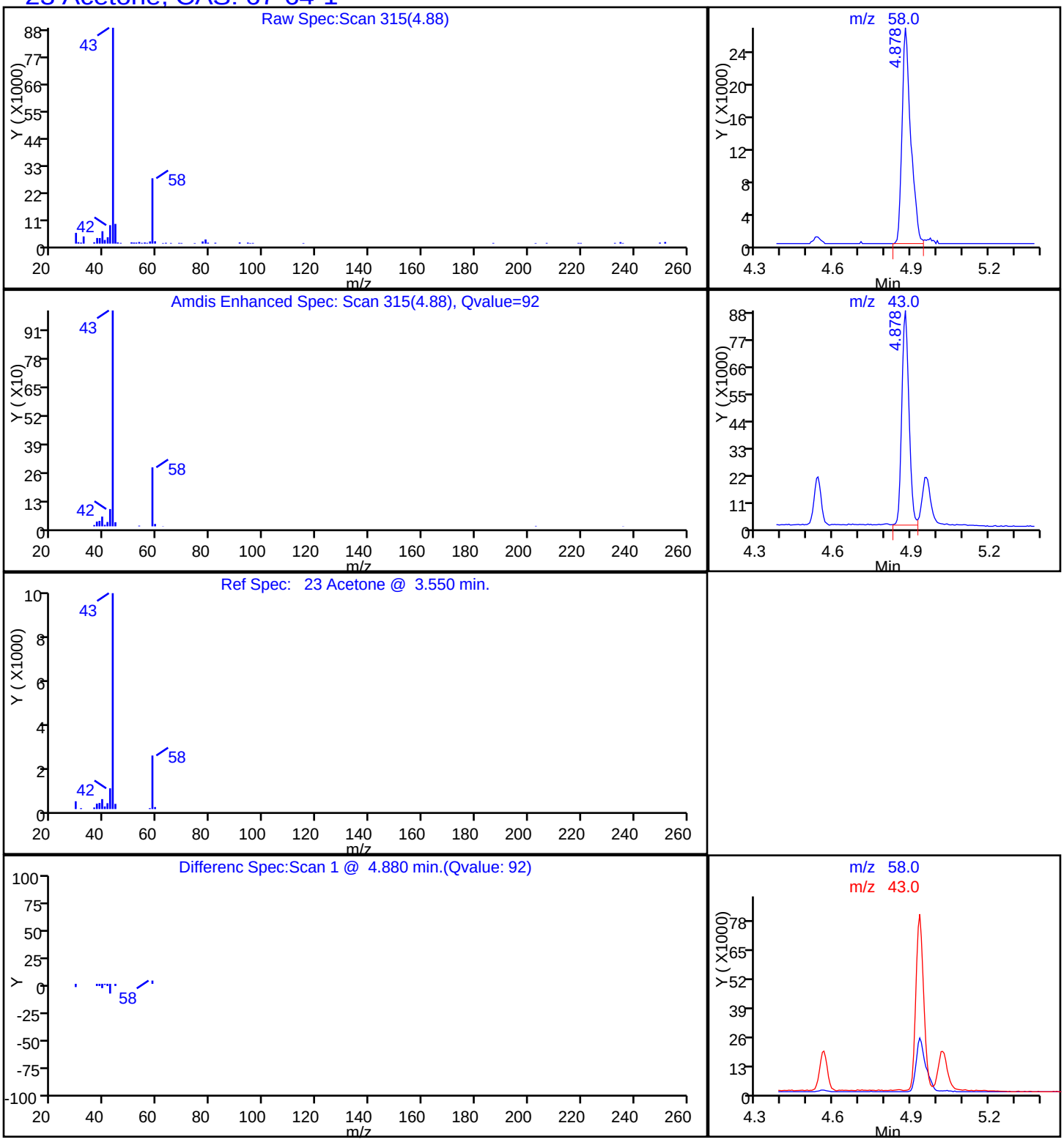
Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

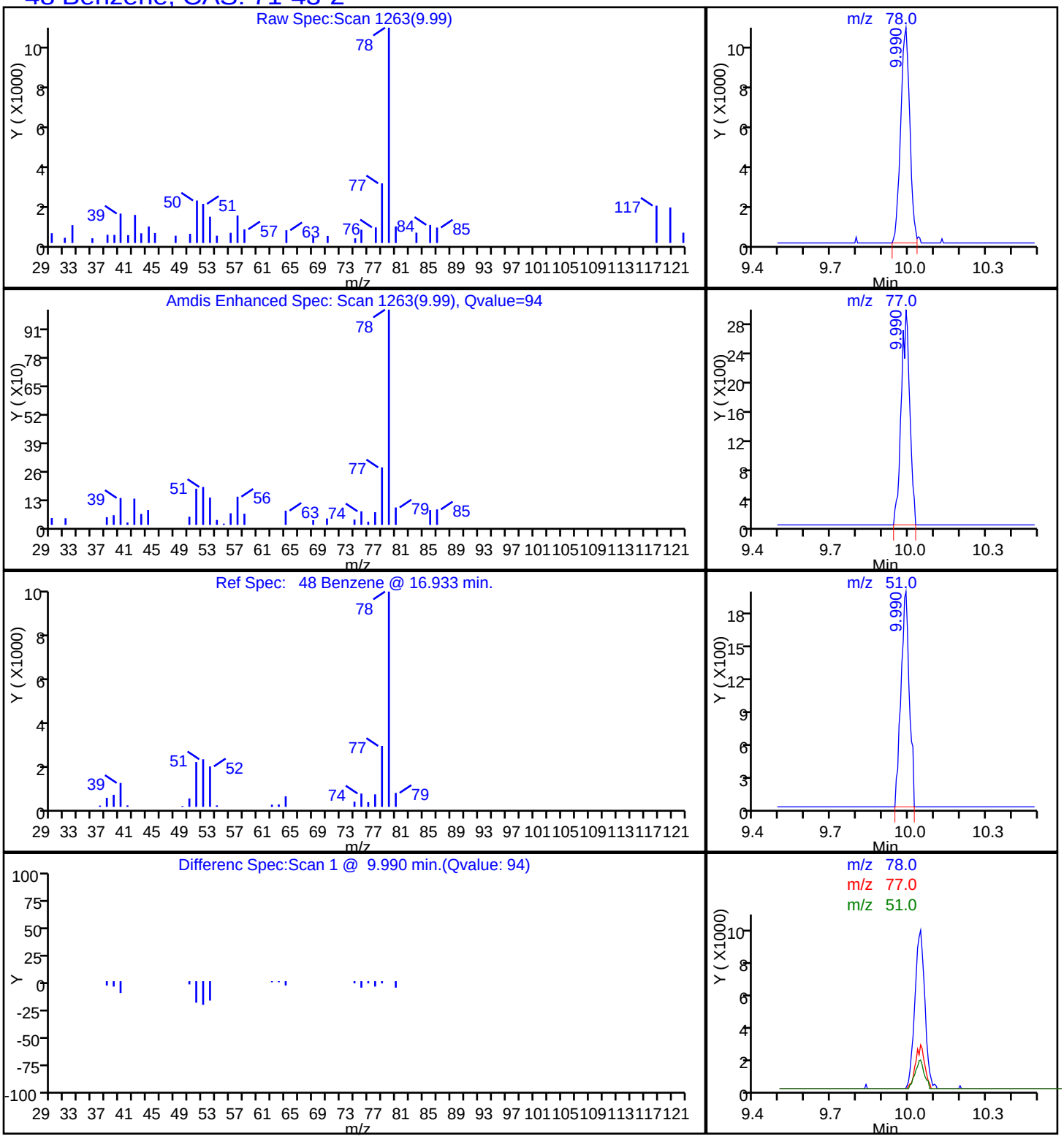


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D		
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2

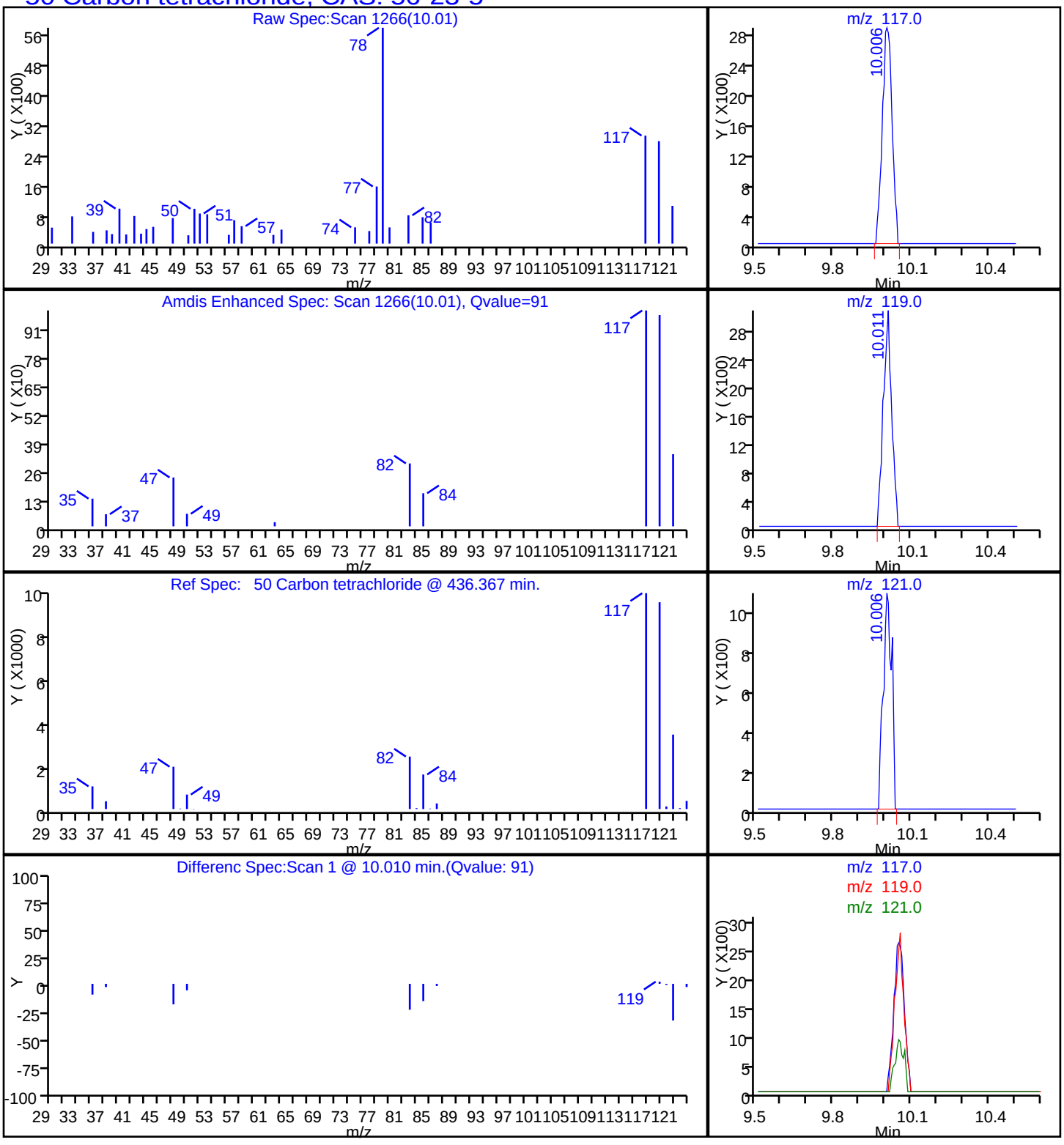


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D		
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:49:48 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

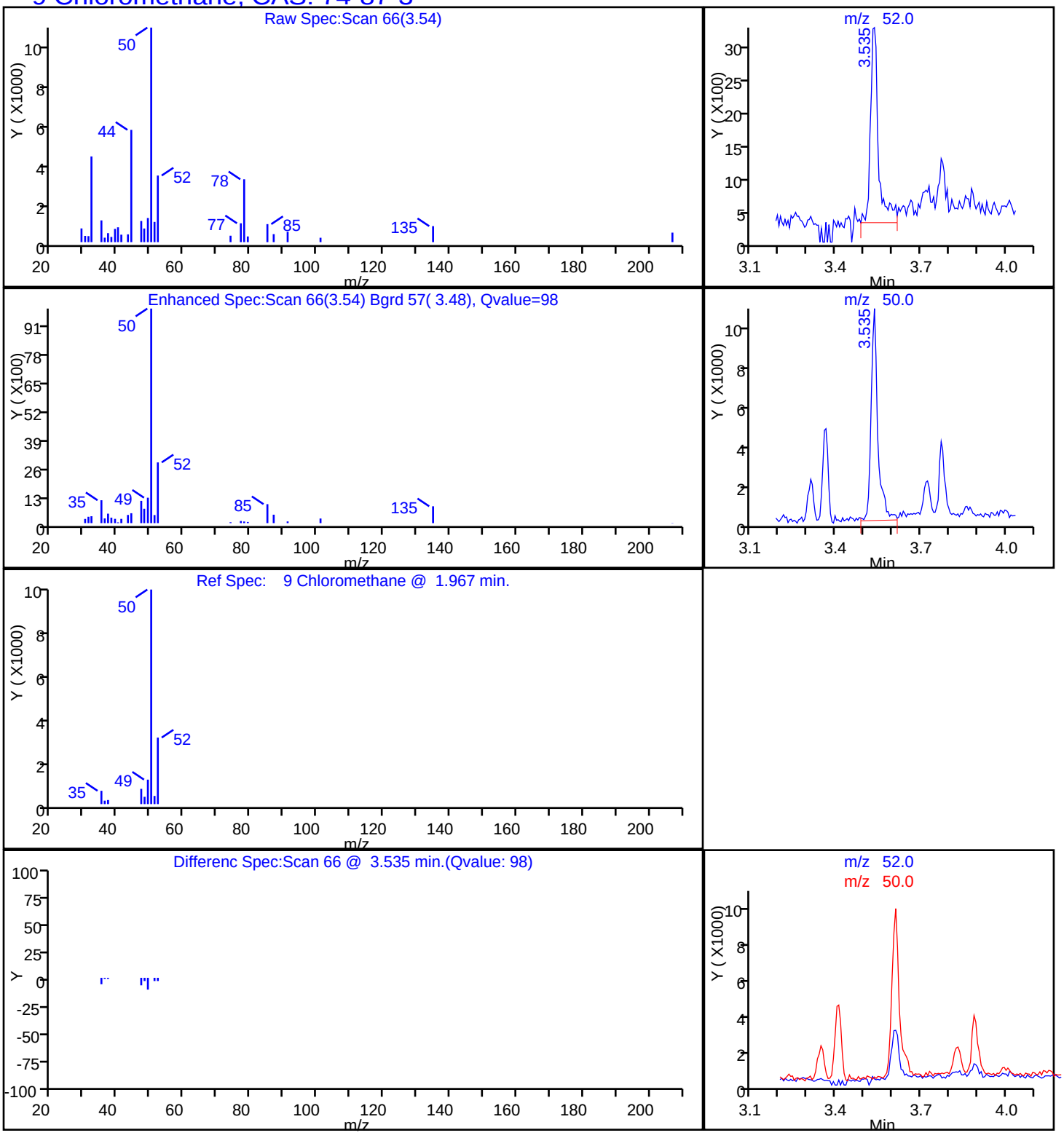
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 21-Mar-2014 09:49:48 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

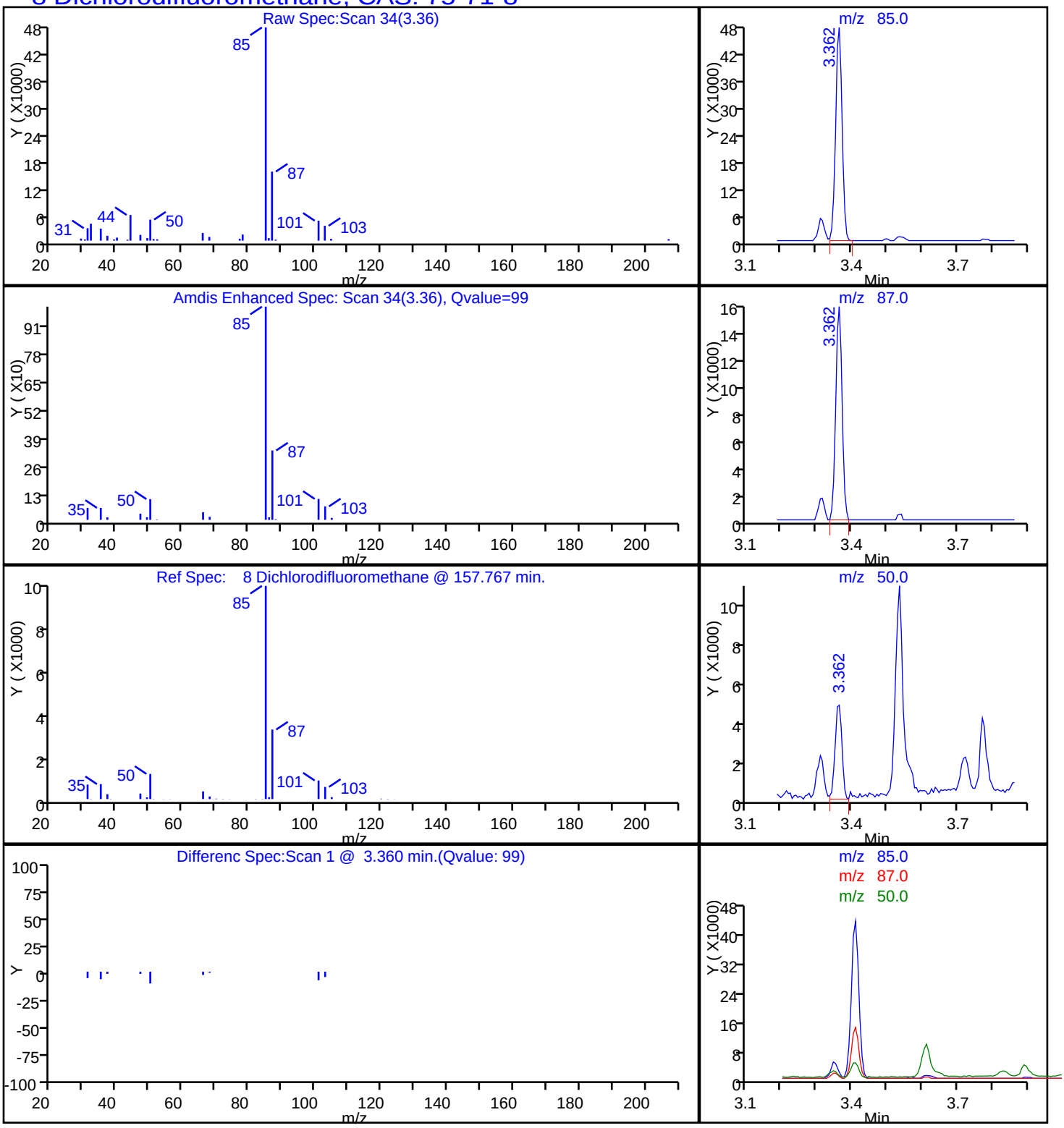
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



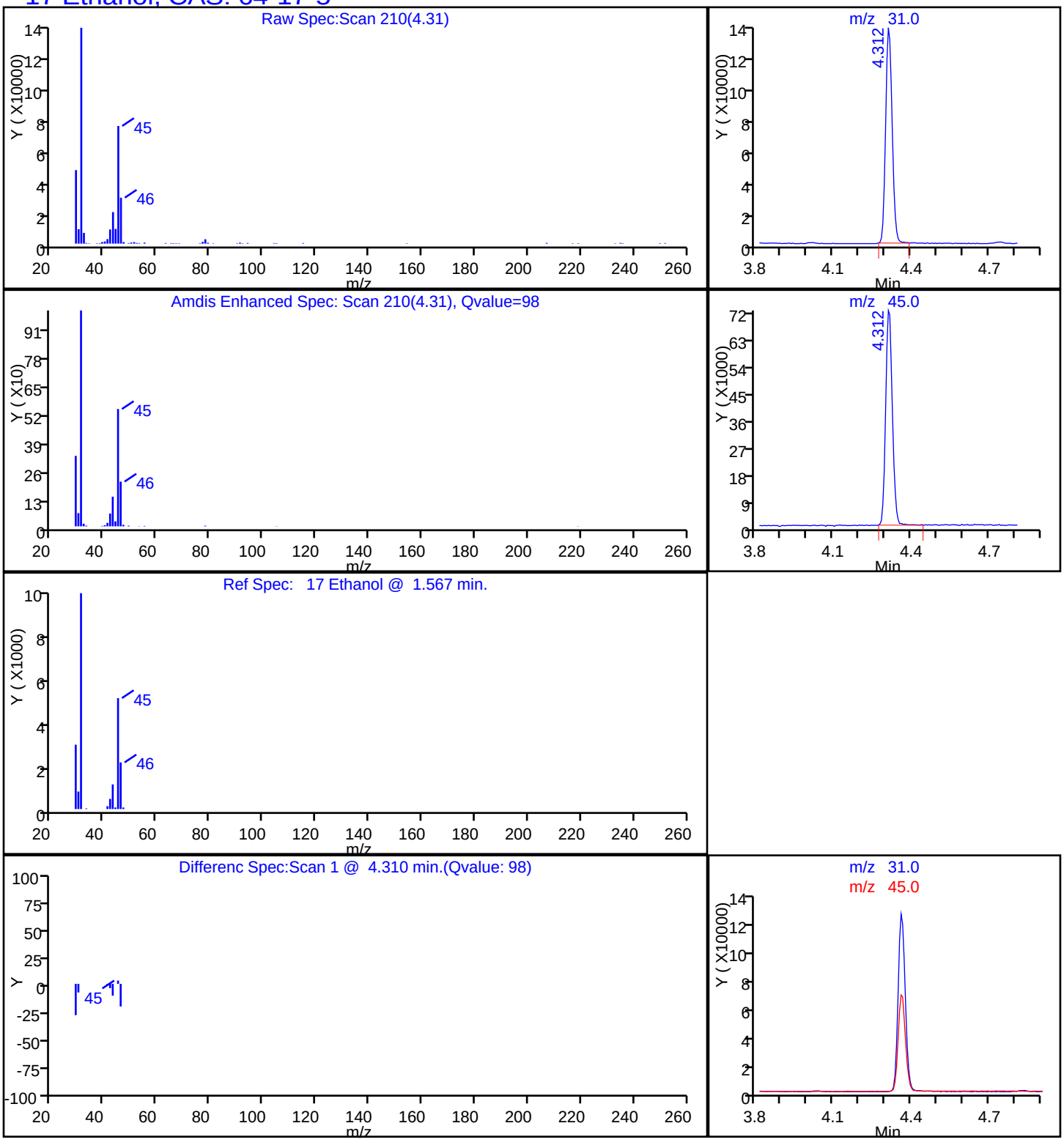
Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

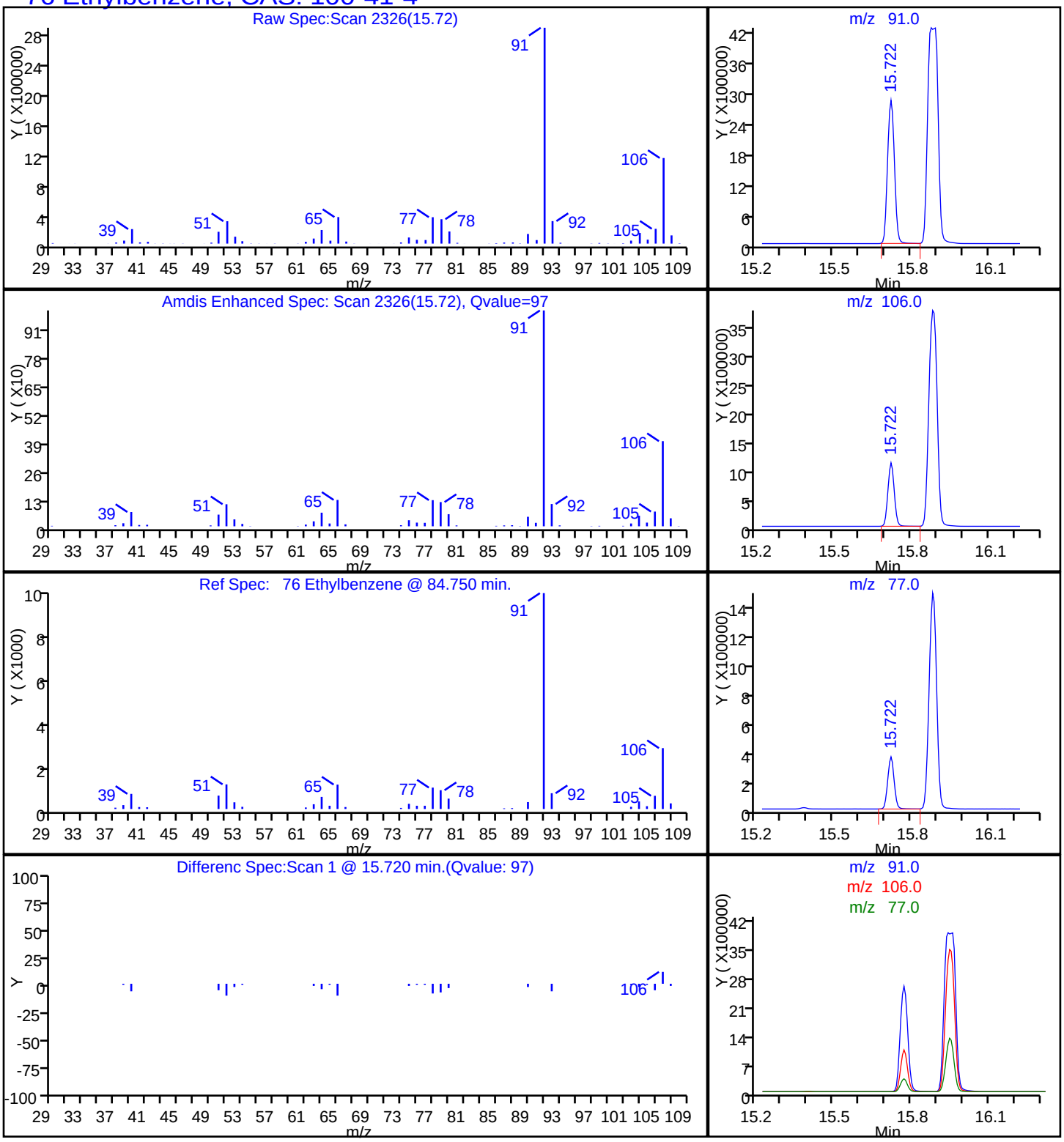


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

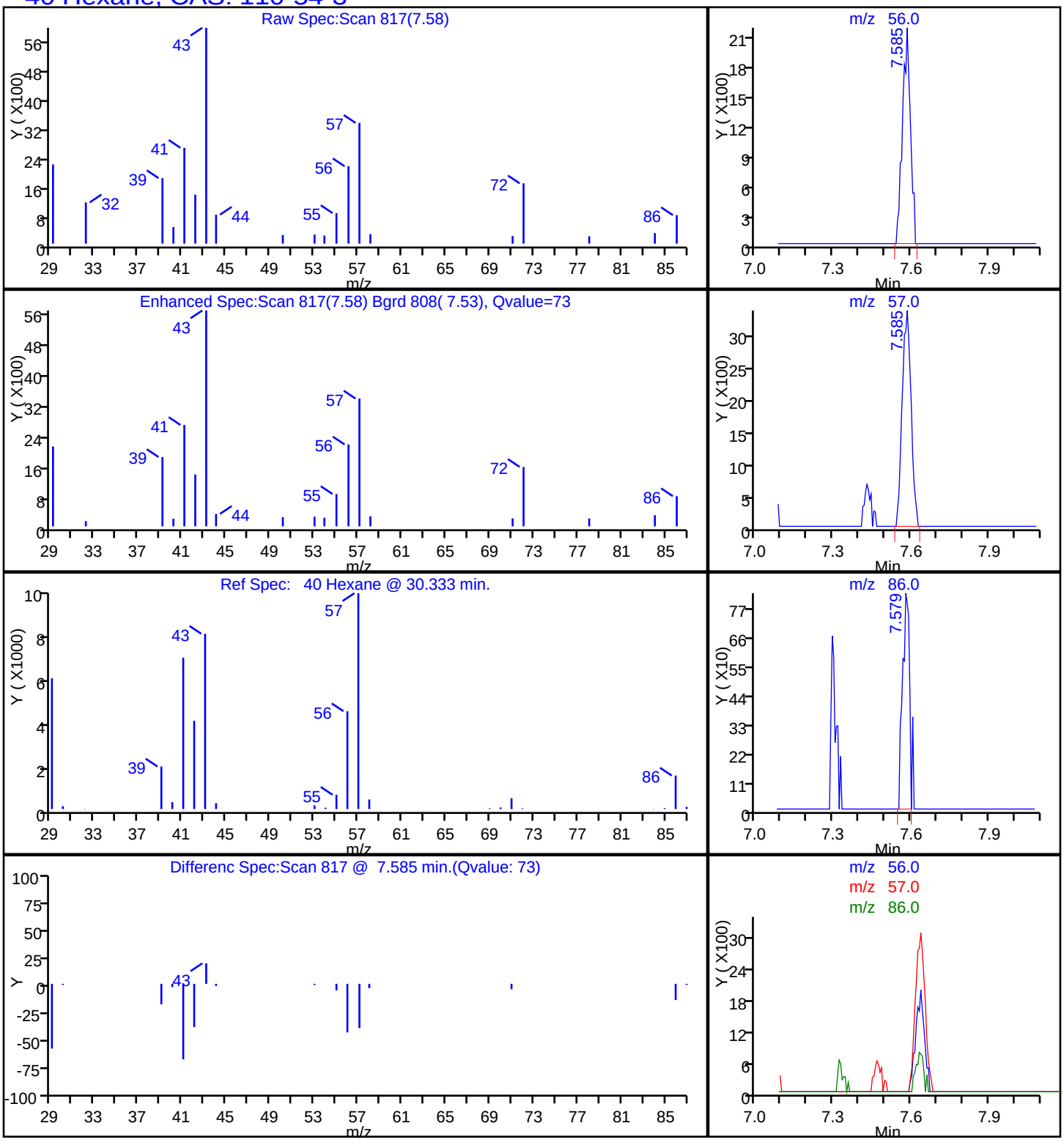
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3

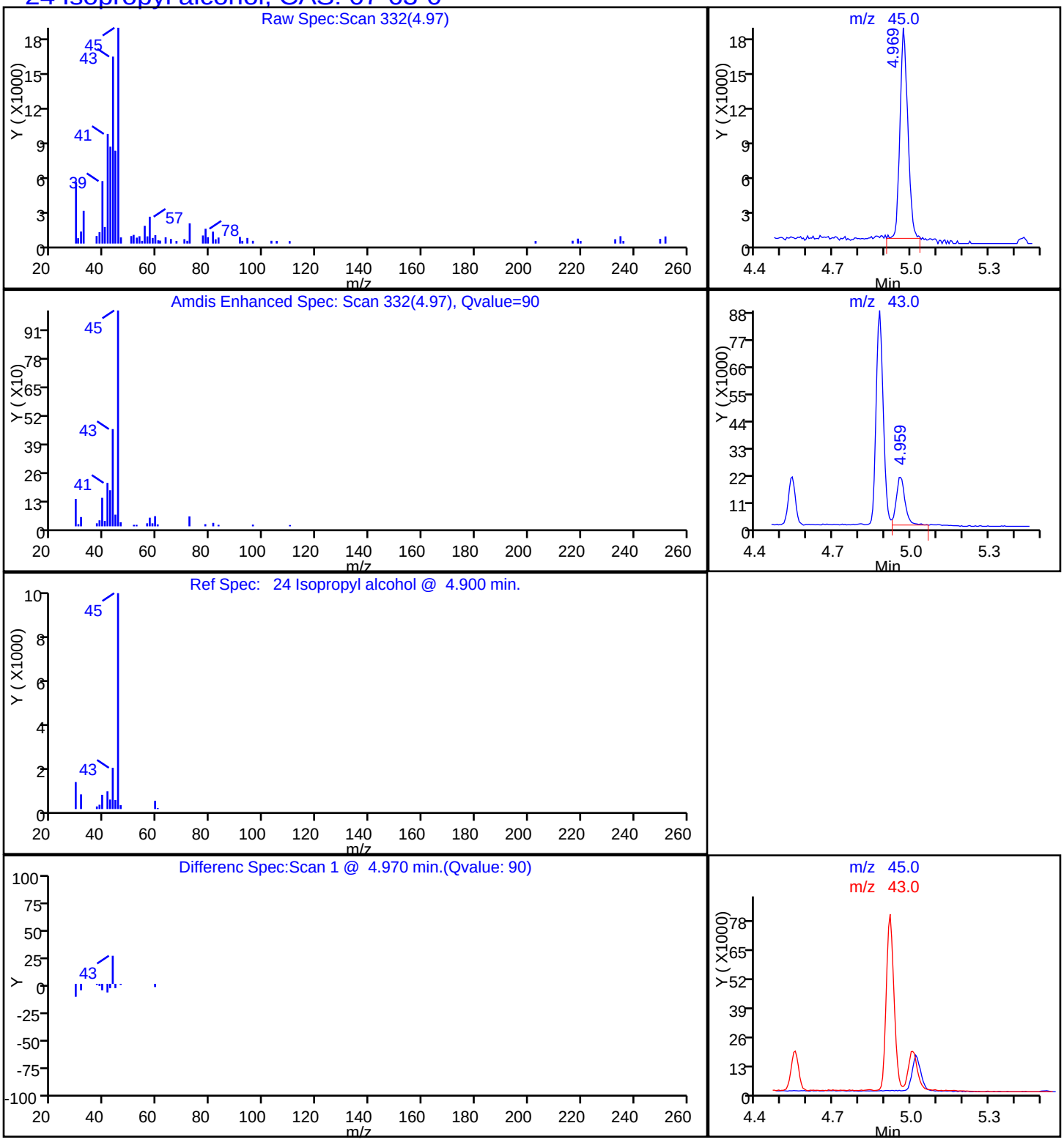


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D		
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



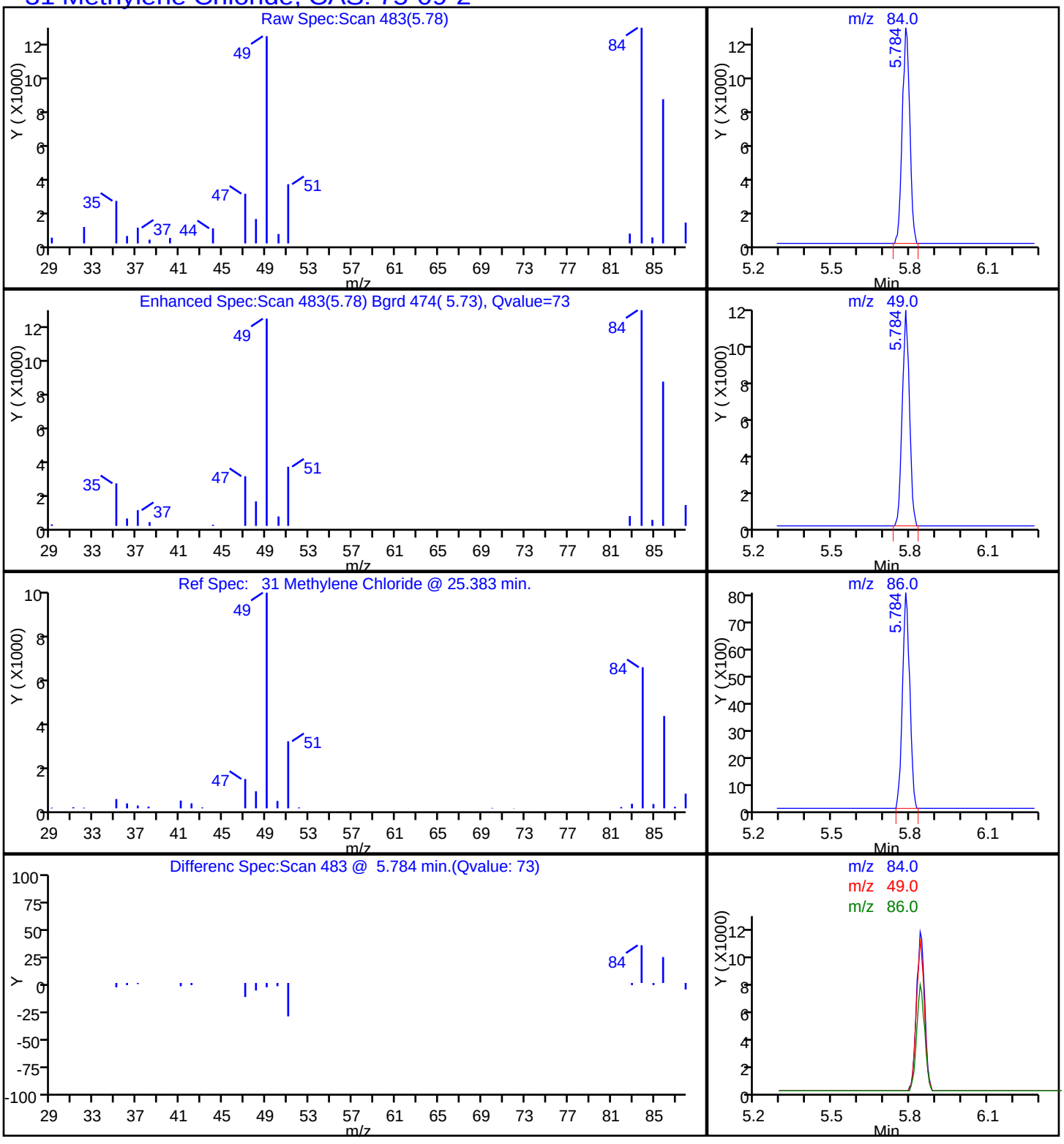
Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19
Client ID:	PCV-IA1FD-B8		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



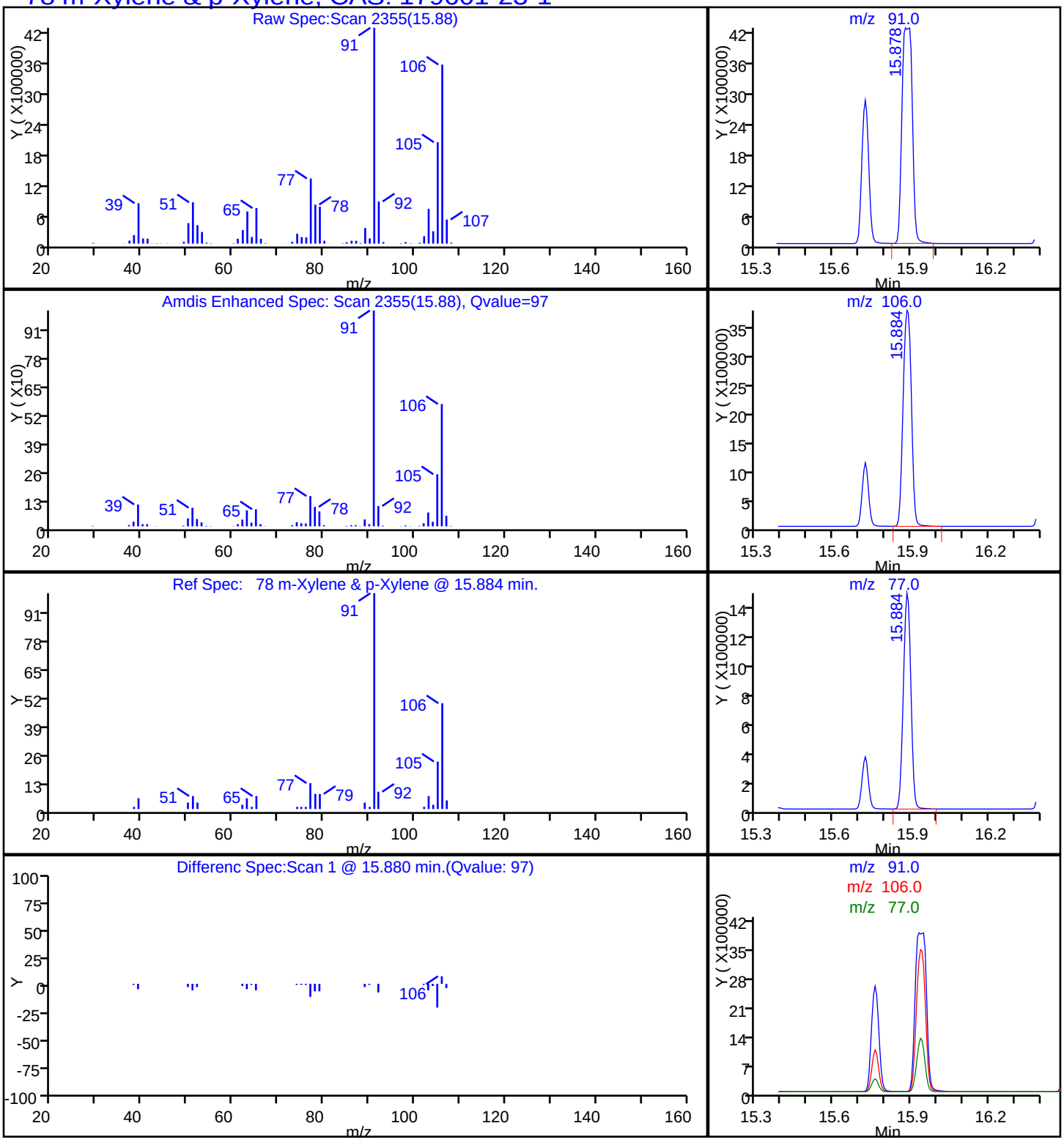
Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



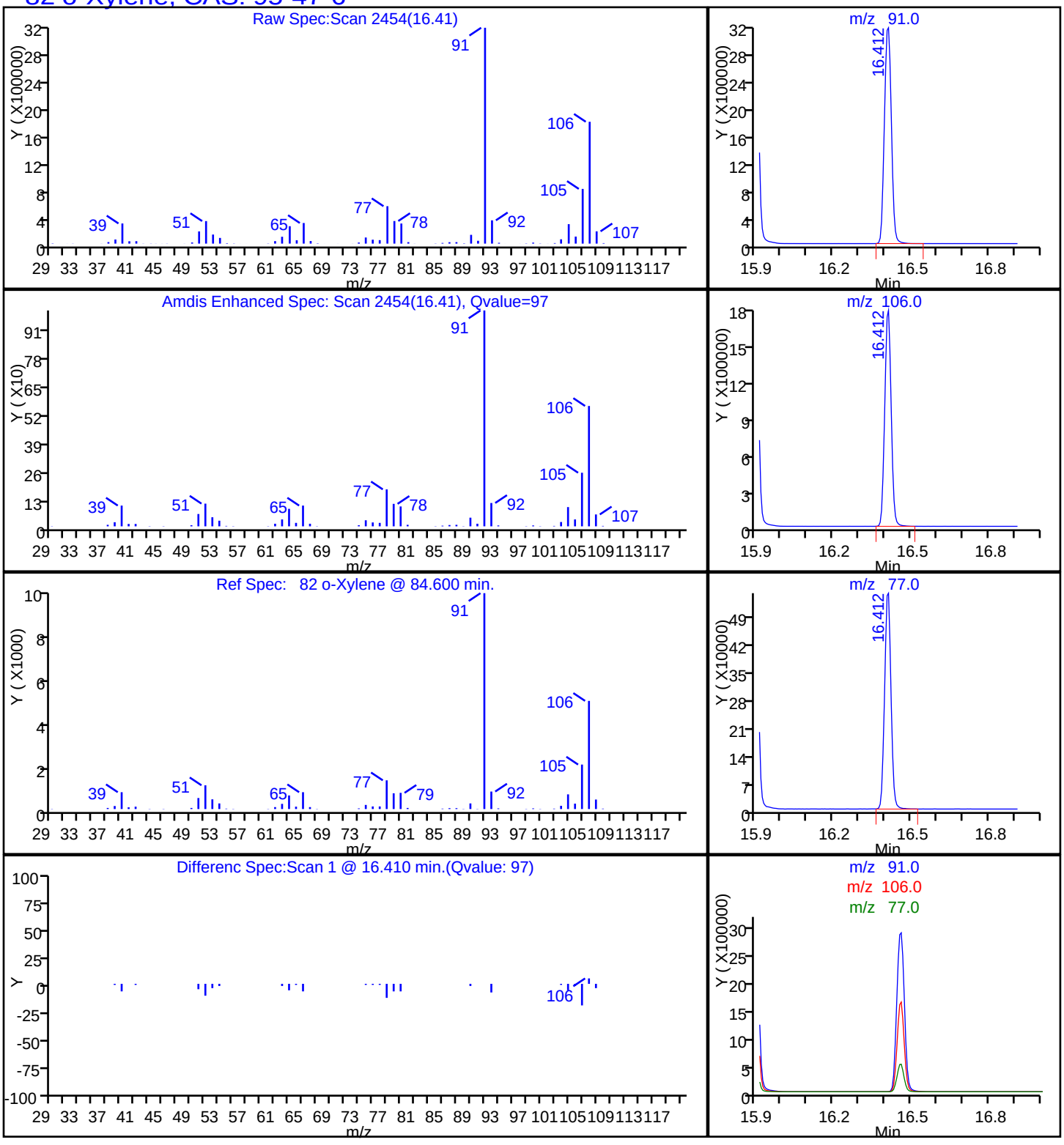
Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:49:48 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D

Injection Date: 21-Mar-2014 05:18:30 Instrument ID: ME

Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19

Client ID: PCV-IA1FD-B8

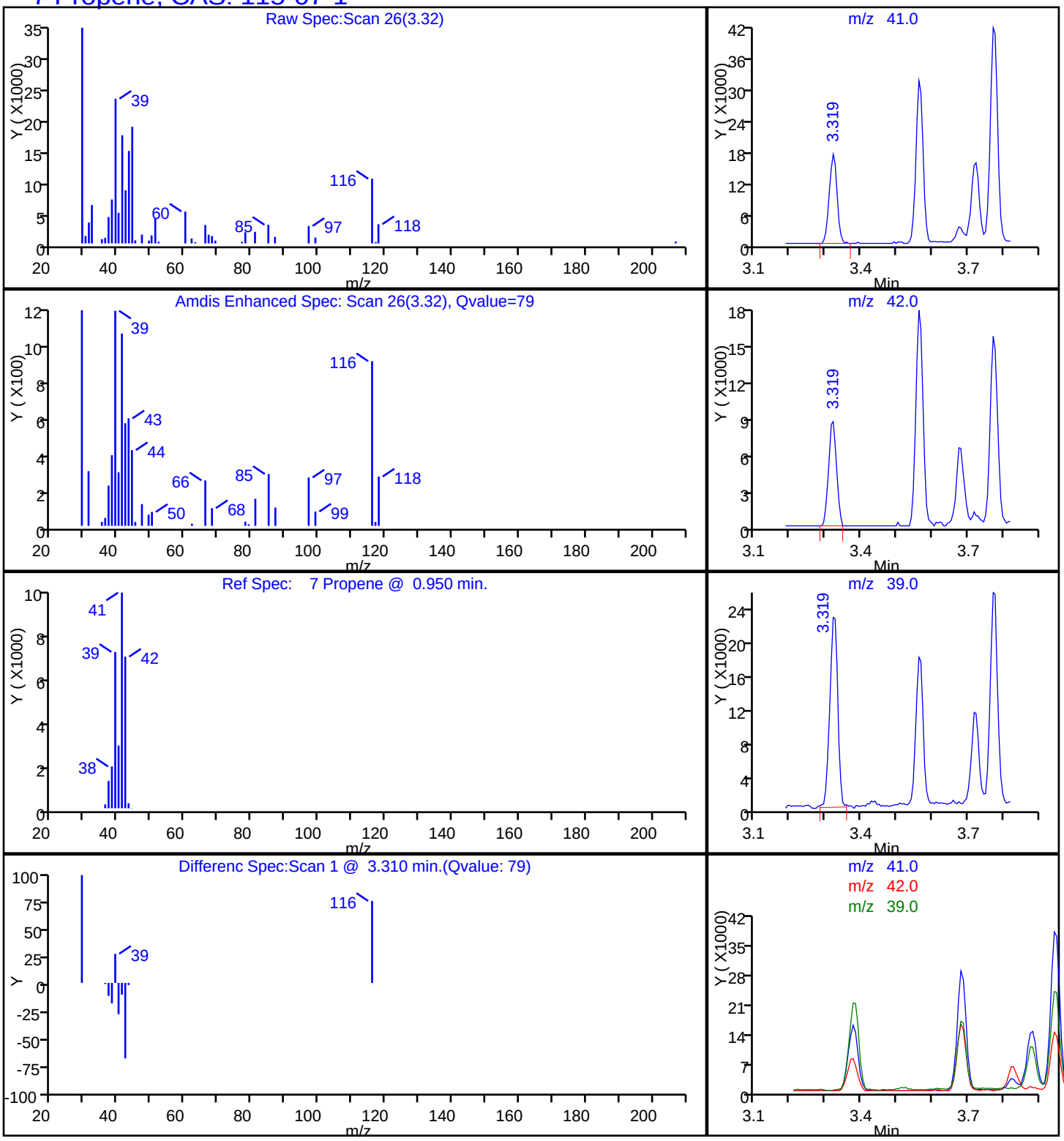
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1

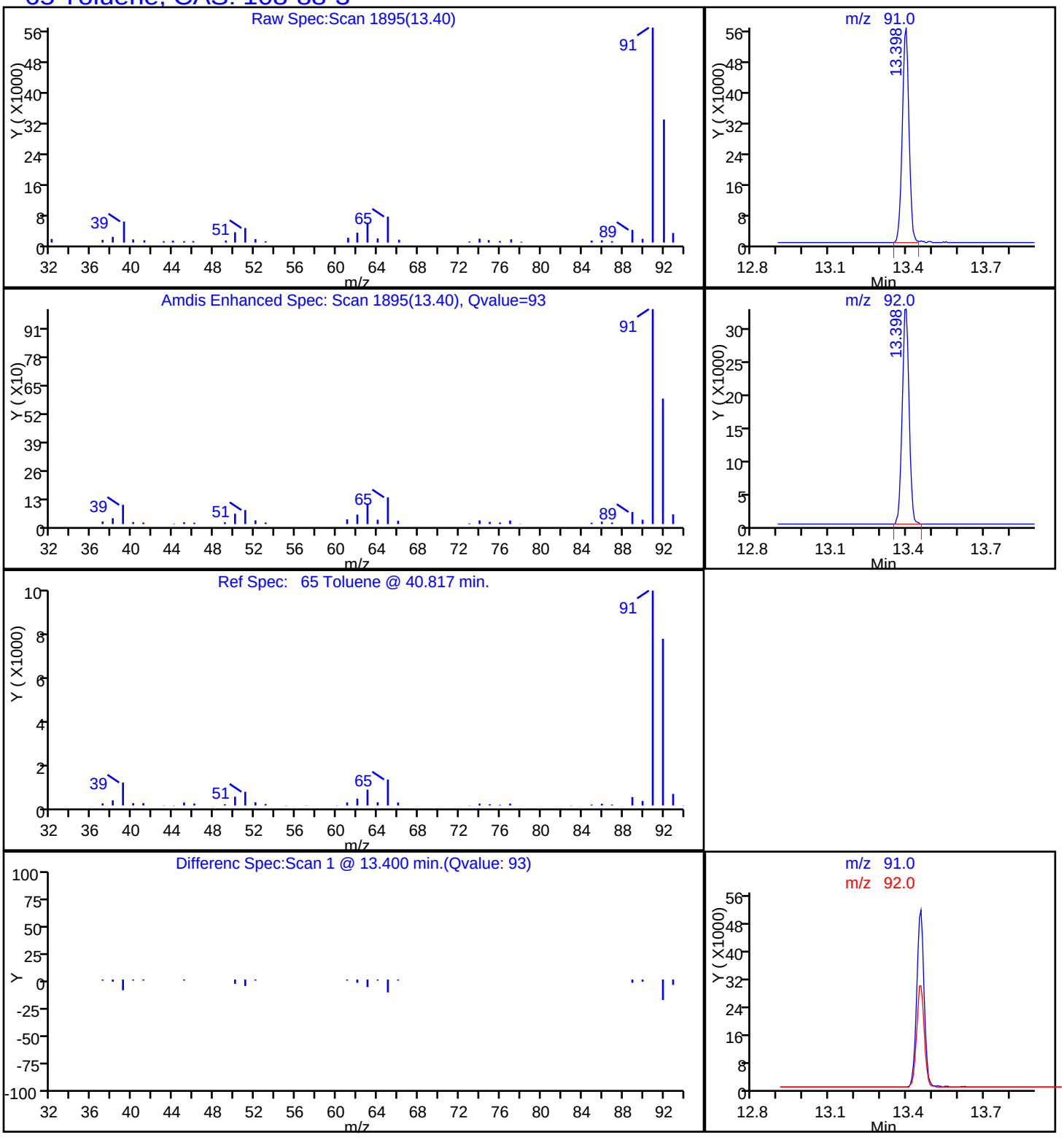


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

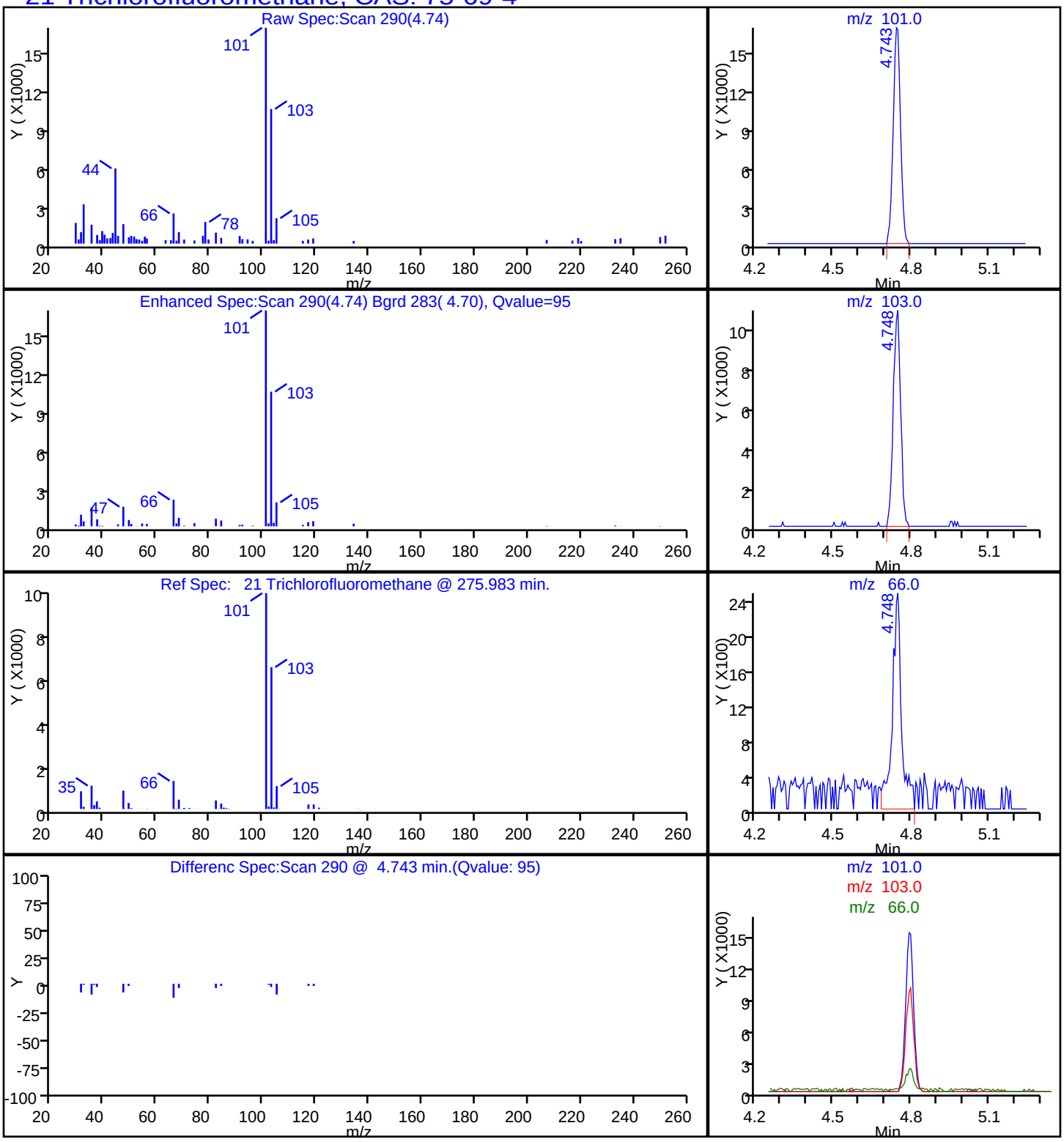


Report Date: 21-Mar-2014 09:49:49 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

21 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

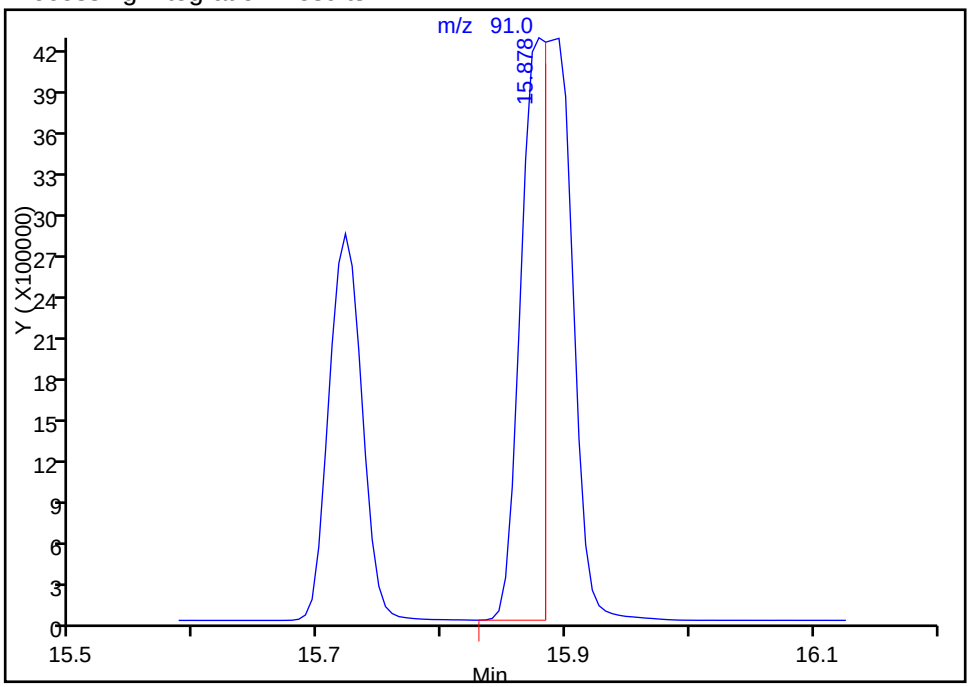
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P202.D				
Injection Date:	21-Mar-2014 05:18:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

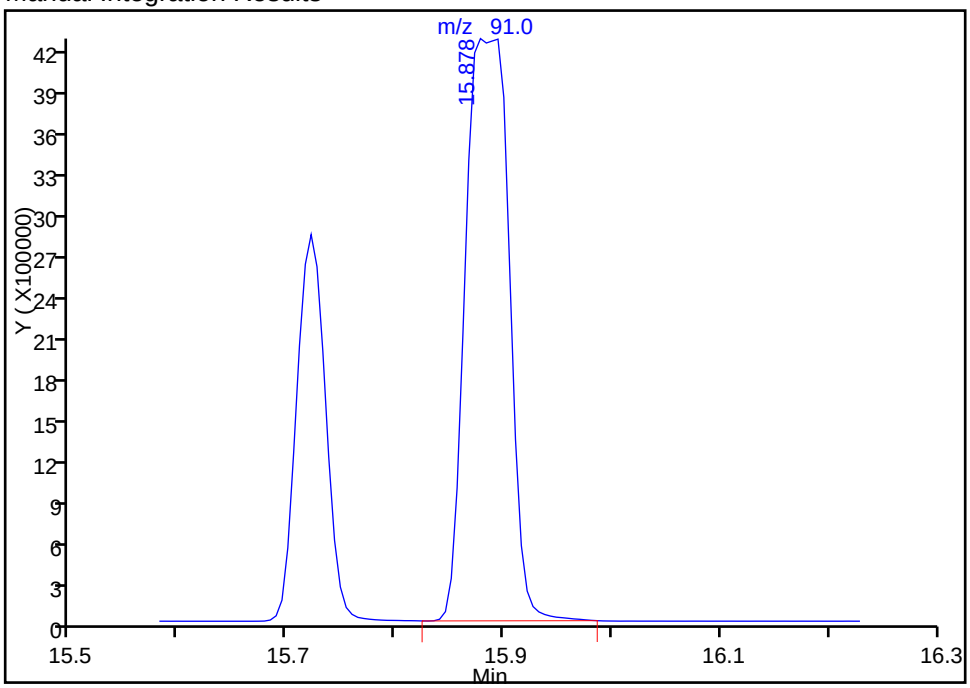
Processing Integration Results

RT: 15.88
Response: 6259788
Amount: 18.728682



Manual Integration Results

RT: 15.88
Response: 11825307
Amount: 35.380179



Reviewer: tajh, 21-Mar-2014 07:30:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 DL Lab Sample ID: 140-1060-19 DL

Matrix: Air Lab File ID: EC24P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 19:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	106.17	130		0.40	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1FD-B8 DL Lab Sample ID: 140-1060-19 DL

Matrix: Air Lab File ID: EC24P111.D

Analysis Method: TO-15 Date Collected: 03/14/2014 13:15

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 19:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	106.17	580		1.7	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P111.D
Lims ID: 140-1060-A-19 Lab Sample ID: 140-1060-19
Client ID: PCV-IA1FD-B8
Sample Type: Client
Inject. Date: 24-Mar-2014 19:08:30 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-19
Misc. Info.: E032414,TO155,,140-0000541-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:24:34

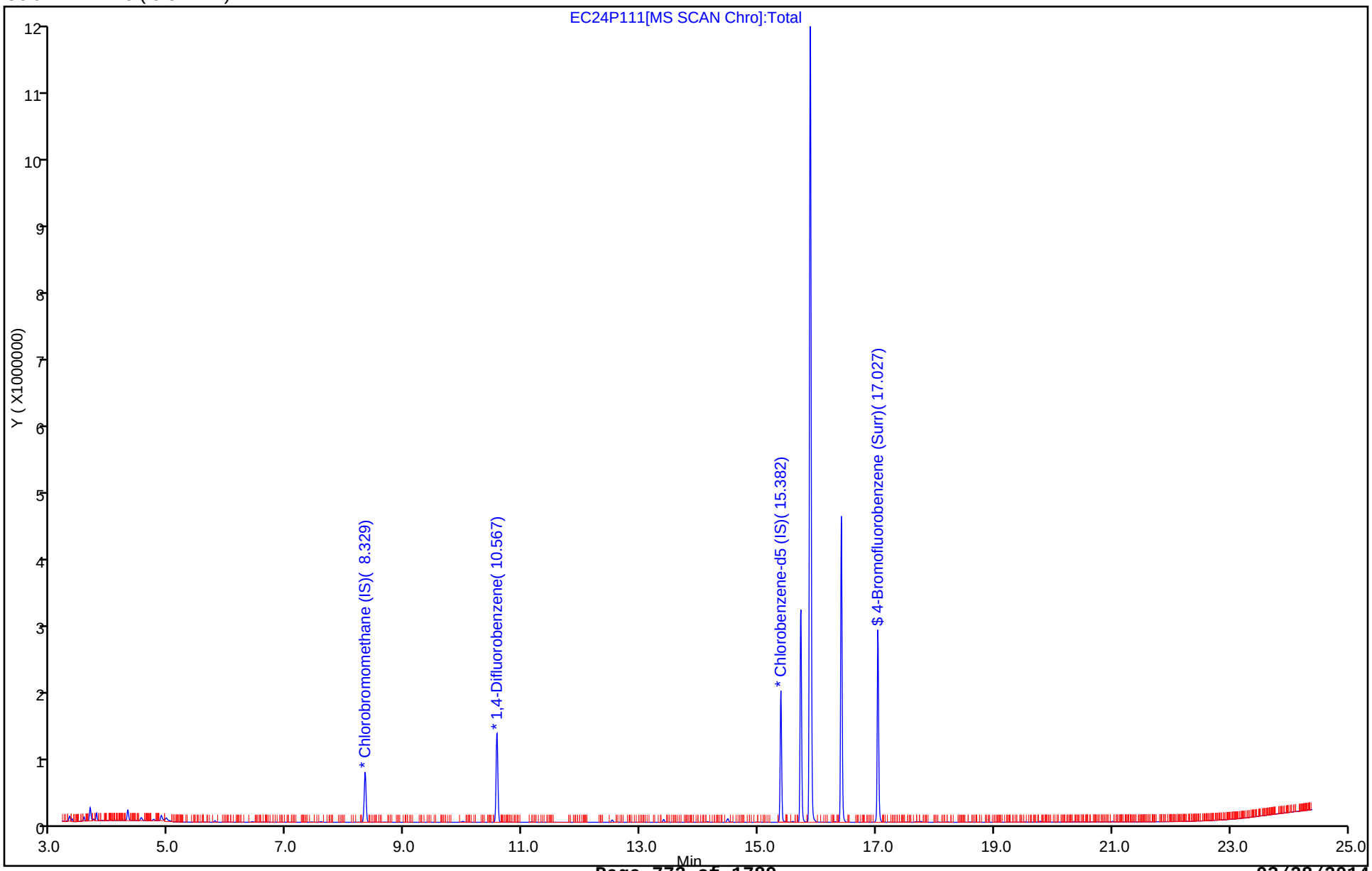
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	68	241124	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1109175	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1019267	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	916151	4.10	
7 Propene	41	3.314	3.314	0.0	81	12310	0.2029	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	95	29585	0.1109	
9 Chloromethane	52	3.535	3.530	0.005	96	2635	0.1238	
15 Bromomethane	94	4.064	4.074	-0.010	9	1588	0.0179	
17 Ethanol	31	4.301	4.312	-0.011	97	114592	4.75	
19 2-Methylbutane	43	4.527	4.533	-0.006	83	15742	0.1864	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	93	15040	0.0562	
23 Acetone	58	4.872	4.878	-0.006	92	33784	0.9250	
24 Isopropyl alcohol	45	4.964	4.969	-0.005	65	20671	0.2198	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.606	0.010	49	2151	0.0130	
31 Methylene Chloride	84	5.778	5.789	-0.011	68	11922	0.1730	
40 Hexane	56	7.569	7.579	-0.010	65	1486	0.0232	
48 Benzene	78	9.984	9.990	-0.006	84	9815	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	88	20112	0.1530	
65 Toluene	91	13.392	13.398	-0.006	88	33050	0.1210	
76 Ethylbenzene	91	15.722	15.722	0.0	98	2267547	6.48	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	92	7353064	26.7	
80 Styrene	104	16.407	16.347	0.060	48	68756	0.3610	
82 o-Xylene	91	16.407	16.407	0.0	99	2724106	9.16	

Report Date: 25-Mar-2014 07:24:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P111.D				
Injection Date:	24-Mar-2014 19:08:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19	Worklist Smp#:	14
Client ID:	PCV-IA1FD-B8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

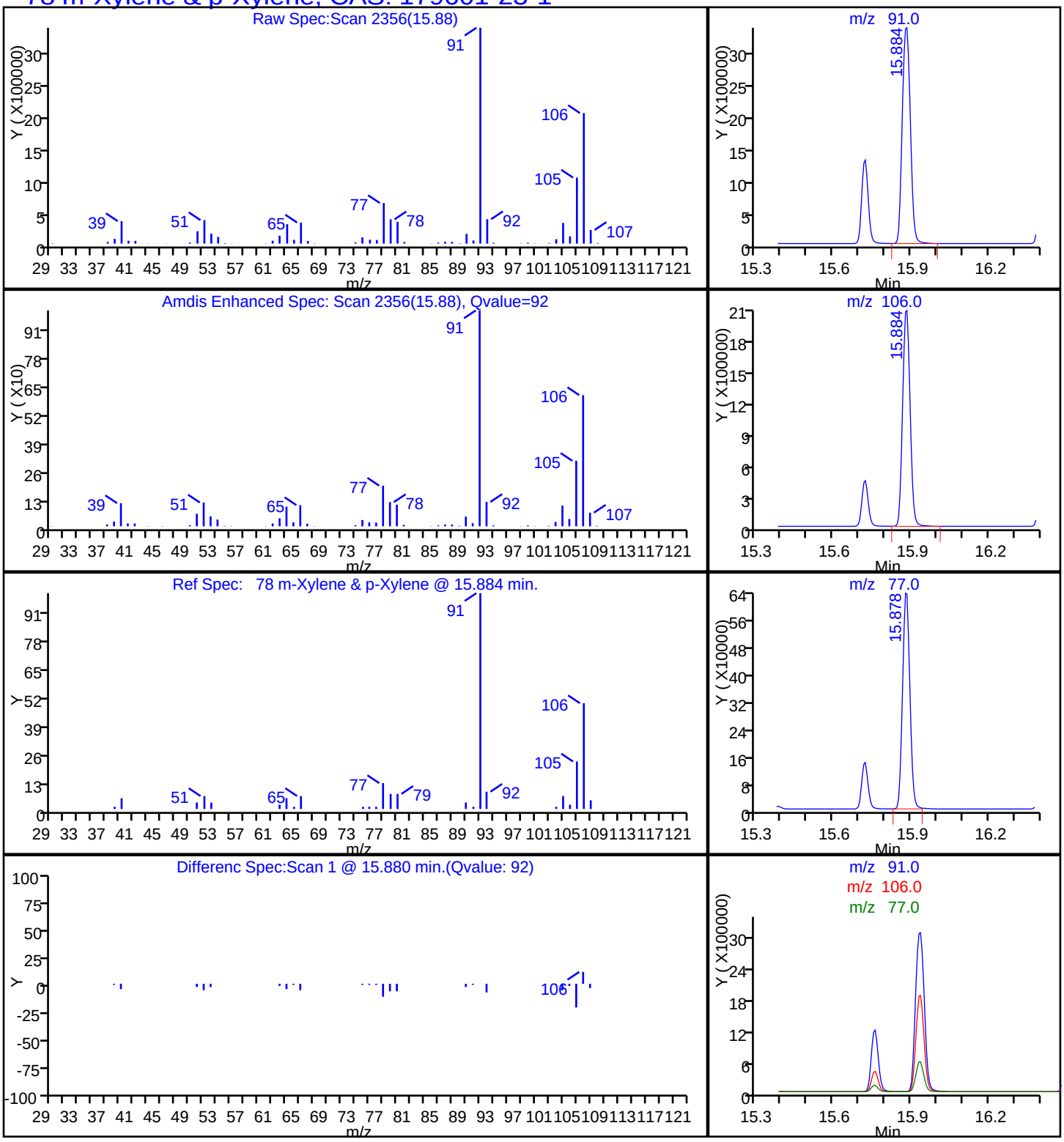


Report Date: 25-Mar-2014 07:24:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P111.D				
Injection Date:	24-Mar-2014 19:08:30	Instrument ID:	ME		
Lims ID:	140-1060-A-19	Lab Sample ID:	140-1060-19		
Client ID:	PCV-IA1FD-B8				
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 Lab Sample ID: 140-1060-20

Matrix: Air Lab File ID: EC20P203.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.076	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.85		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	18		0.50	0.045
67-64-1	Acetone	58.08	5.7		5.0	1.4
71-43-2	Benzene	78.11	0.19	J	0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 Lab Sample ID: 140-1060-20

Matrix: Air Lab File ID: EC20P203.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.39	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.51		0.20	0.068
64-17-5	Ethanol	46.07	17		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.52		0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND	*	1.0	0.078
110-54-3	Hexane	86.17	0.095	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.81	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.46	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.8		0.20	0.12
91-20-3	Naphthalene	128.17	ND	*	0.50	0.090
95-47-6	o-Xylene	106.17	0.77		0.20	0.061
115-07-1	Propene	42.08	0.89	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.045	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND	*	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.22		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.28		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 Lab Sample ID: 140-1060-20

Matrix: Air Lab File ID: EC20P203.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 Lab Sample ID: 140-1060-20

Matrix: Air Lab File ID: EC20P203.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.58	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	73		2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.60	J	0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 | Lab Sample ID: 140-1060-20

Matrix: Air | Lab File ID: EC20P203.D

Analysis Method: TO-15 | Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) | Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 977 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.81	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.99	0.34
64-17-5	Ethanol	46.07	33		3.8	3.8
100-41-4	Ethylbenzene	106.17	2.3		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND	*	11	0.83
110-54-3	Hexane	86.17	0.33	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.6	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	12		0.87	0.52
91-20-3	Naphthalene	128.17	ND	*	2.6	0.47
95-47-6	o-Xylene	106.17	3.3		0.87	0.26
115-07-1	Propene	42.08	1.5	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.31	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND	*	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	0.83		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B8 Lab Sample ID: 140-1060-20

Matrix: Air Lab File ID: EC20P203.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:03

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 06:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D
Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20
Client ID: PCV-IA2-B8
Sample Type: Client
Inject. Date: 21-Mar-2014 06:03:30 ALS Bottle#: 3 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-20
Misc. Info.: E032014,TO155,,140-0000533-023
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:50:43 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:50:42

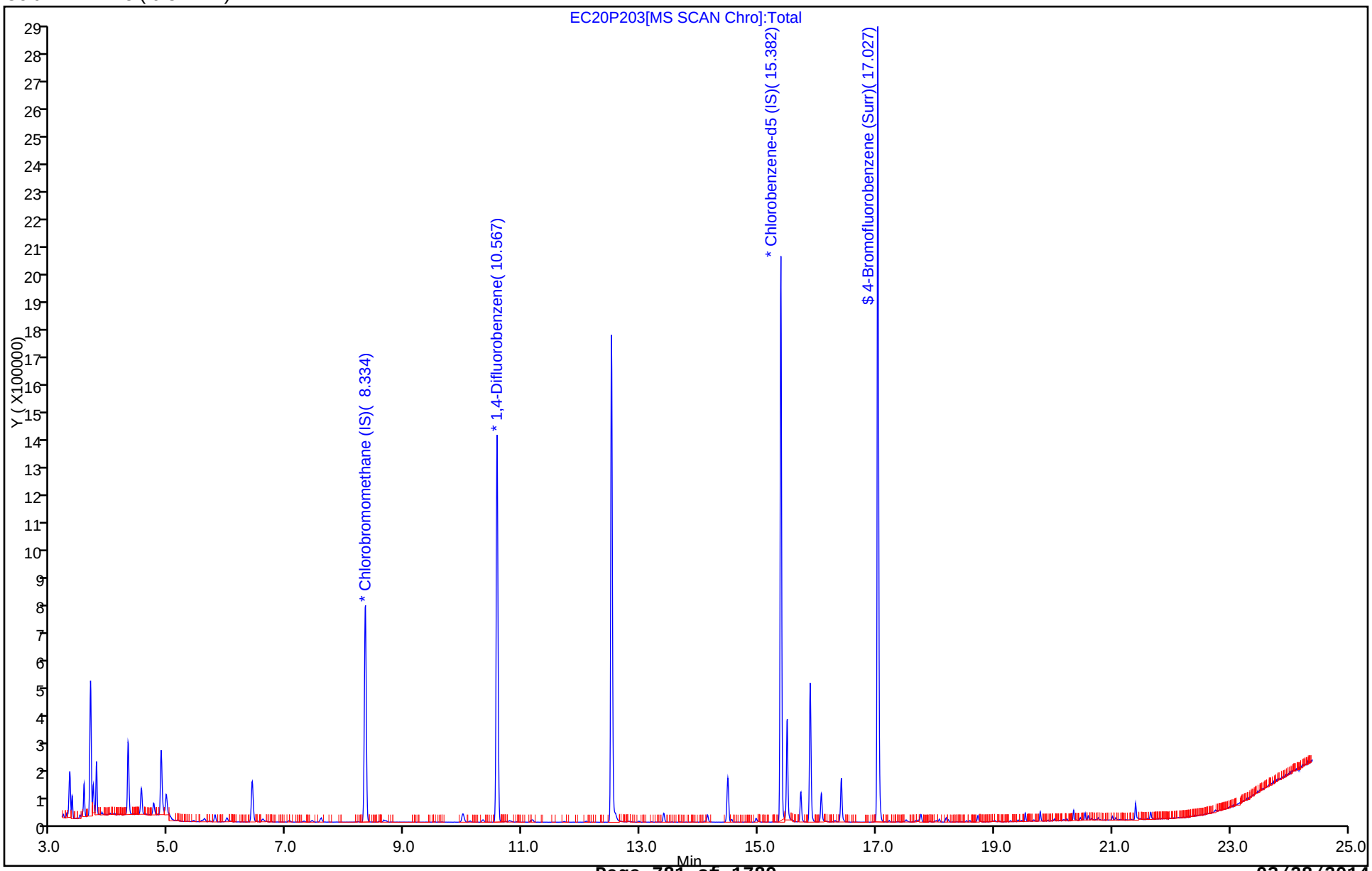
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	260702	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1169948	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1103565	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	948926	3.93	
7 Propene	41	3.320	3.314	0.006	74	23332	0.3558	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	95	58466	0.2027	
9 Chloromethane	52	3.530	3.530	0.0	98	3595	0.1562	
17 Ethanol	31	4.306	4.317	-0.011	97	182040	6.98	
19 2-Methylbutane	43	4.533	4.538	-0.005	82	30891	0.3384	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	96	32498	0.1123	
23 Acetone	58	4.867	4.883	-0.016	99	89940	2.28	
24 Isopropyl alcohol	45	4.964	4.970	-0.006	67	33022	0.3248	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.600	5.611	-0.011	80	5468	0.0305	
31 Methylene Chloride	84	5.784	5.789	-0.005	69	13641	0.1831	
40 Hexane	56	7.569	7.585	-0.016	70	2633	0.0380	
48 Benzene	78	9.984	9.995	-0.011	87	17544	0.0745	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	87	7372	0.0326	
54 n-Heptane	71	11.176	11.182	-0.006	62	1713	0.0192	
62 4-Methyl-2-pentanone (MIBK)	43	12.508	12.519	-0.011	89	986807	7.12	
65 Toluene	91	13.392	13.398	-0.006	86	26047	0.0881	
73 Tetrachloroethene	129	14.541	14.552	-0.011	69	2286	0.0182	
76 Ethylbenzene	91	15.722	15.722	0.0	98	79177	0.2089	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	335841	1.13	
82 o-Xylene	91	16.407	16.412	-0.005	97	98735	0.3065	

Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D				
Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20	Worklist Smp#:	23
Client ID:	PCV-IA2-B8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

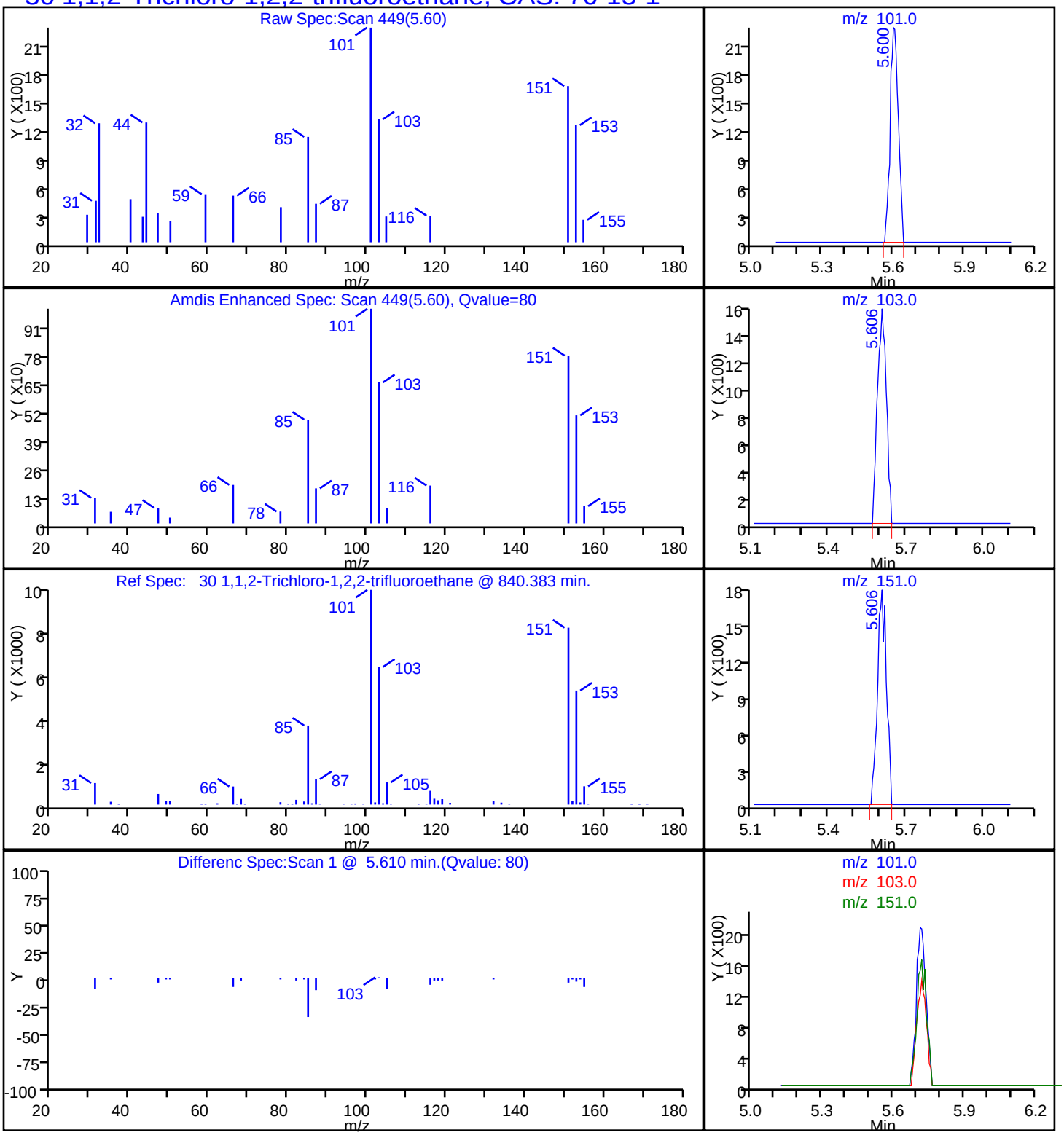
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

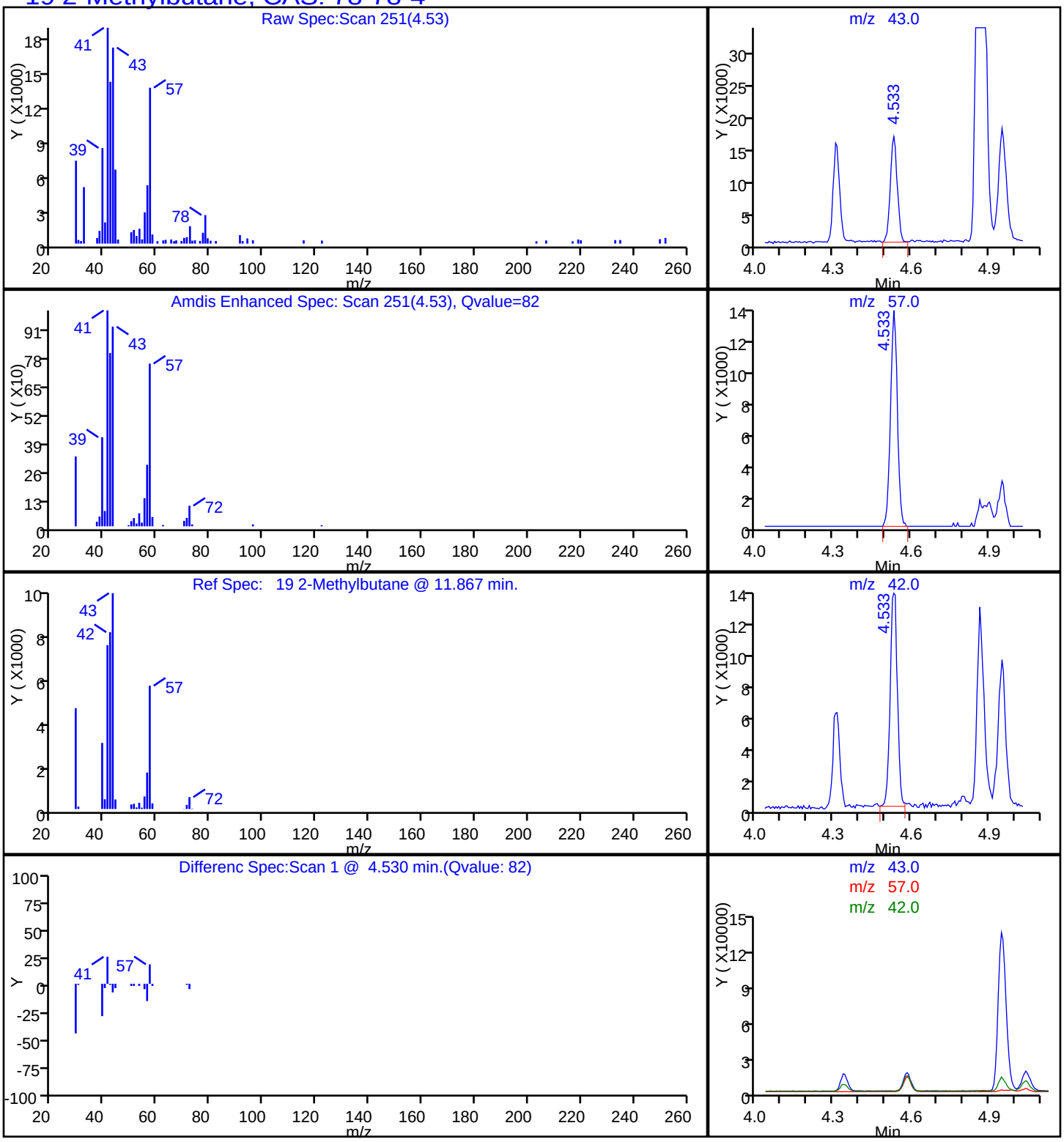
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 21-Mar-2014 09:50:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

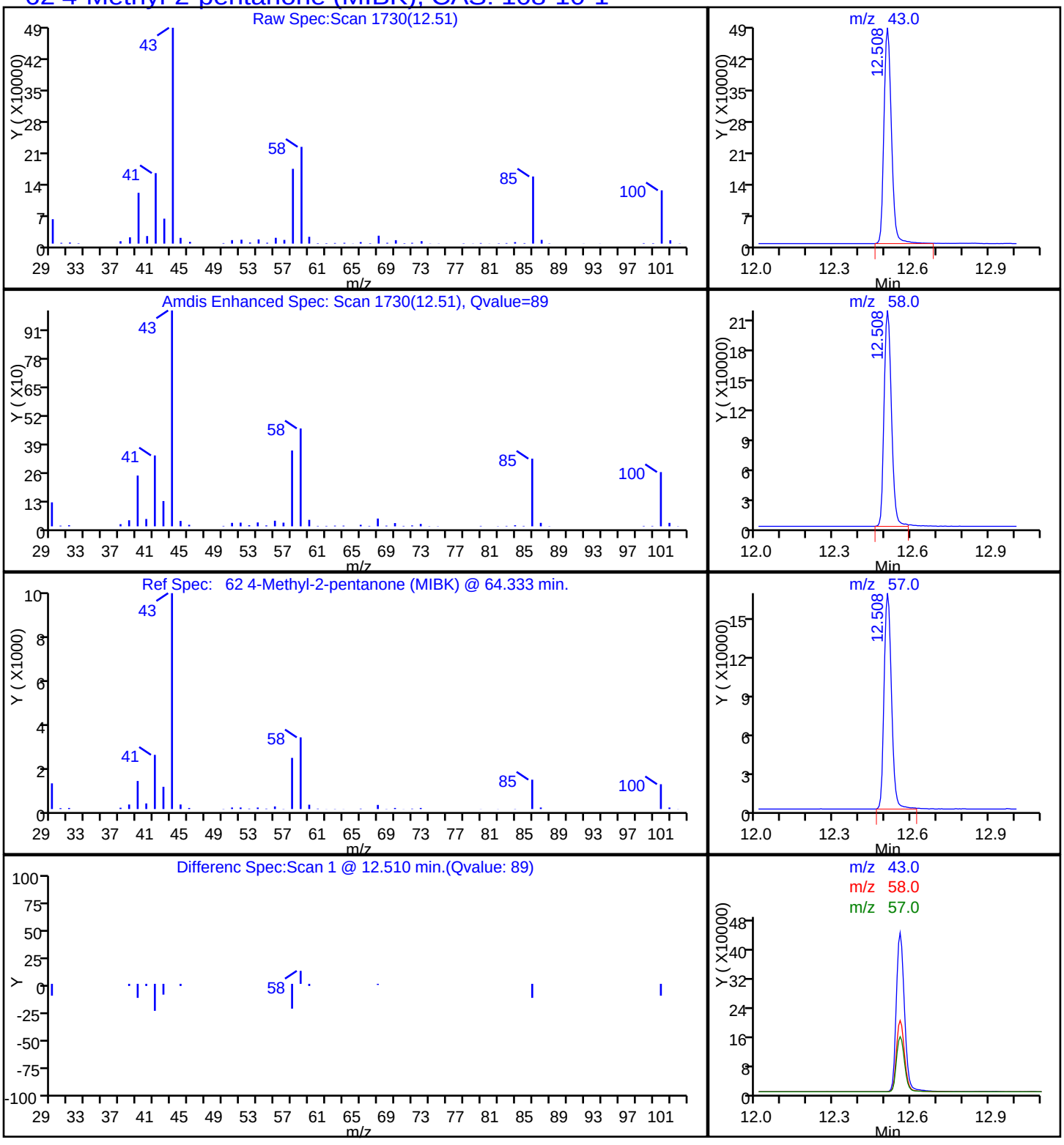
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



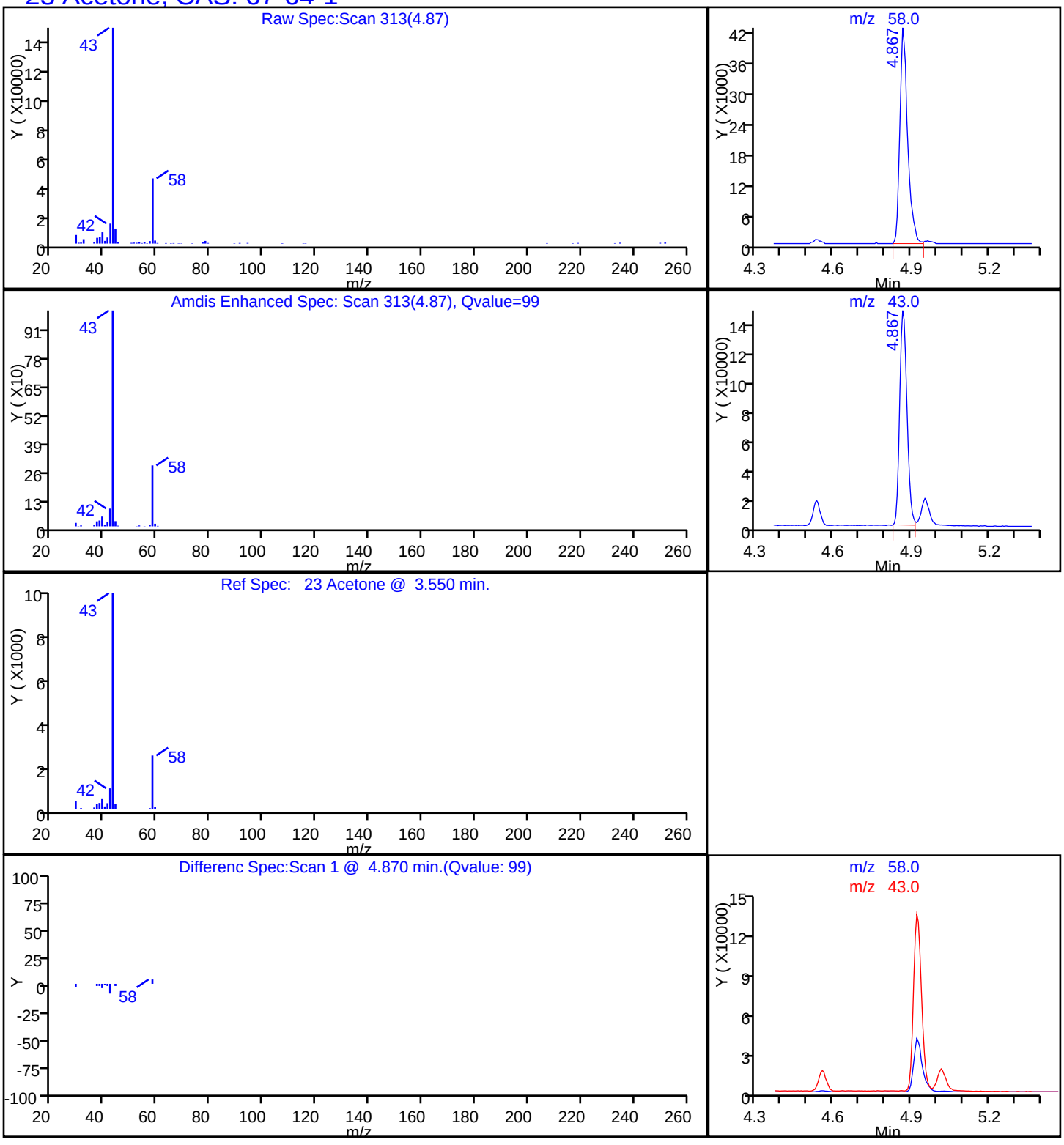
Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20		
Client ID:	PCV-IA2-B8				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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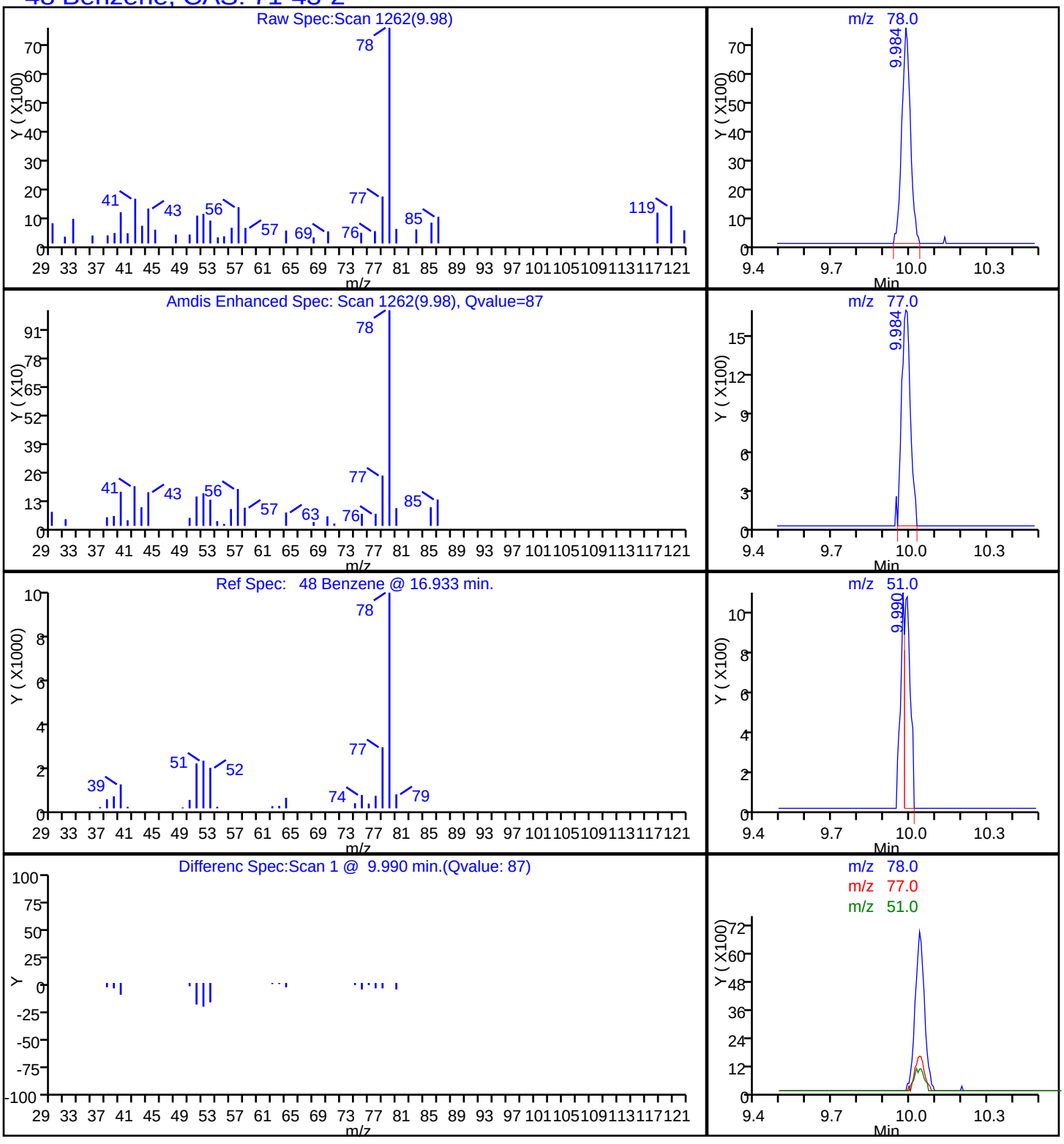
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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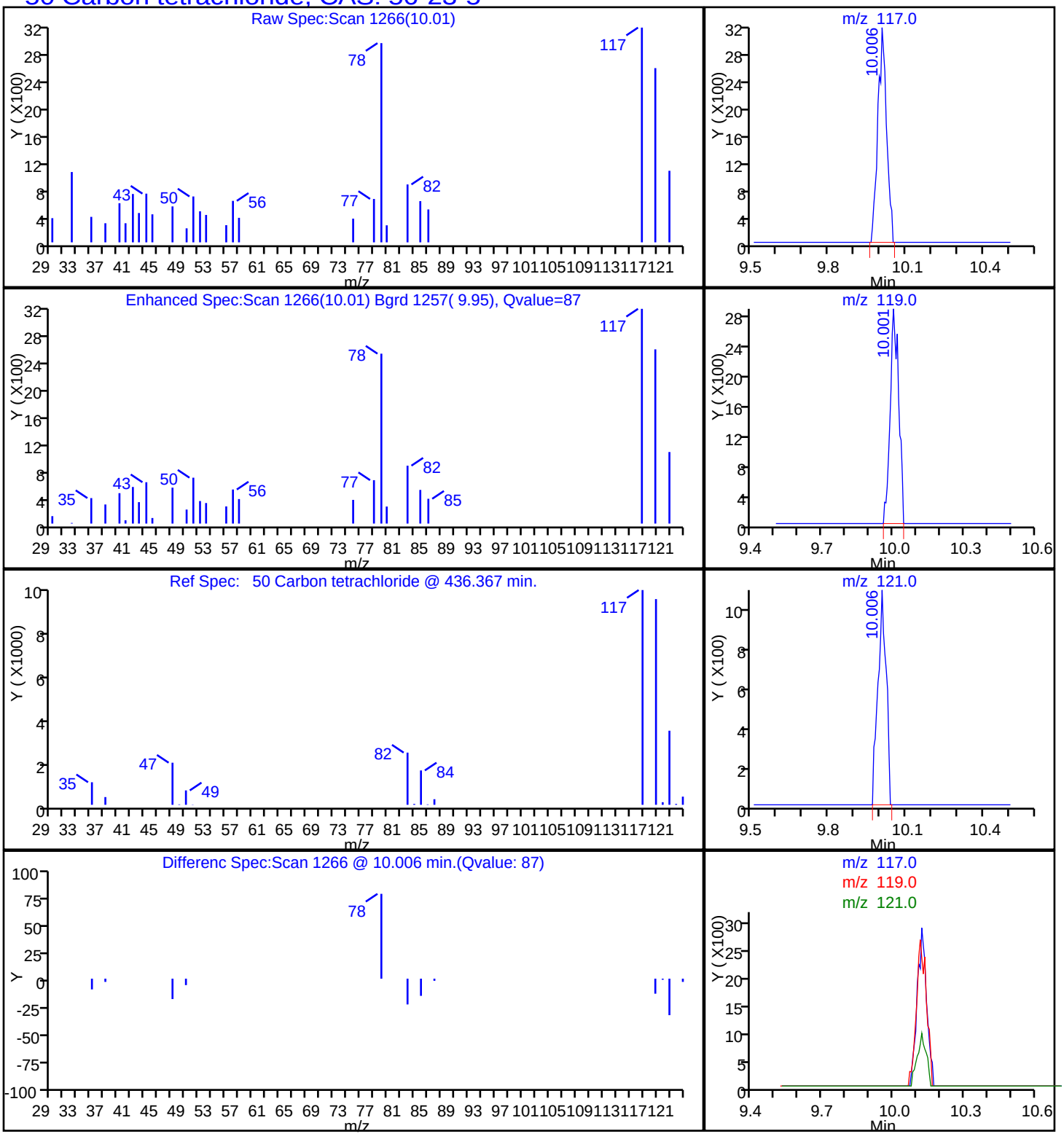
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

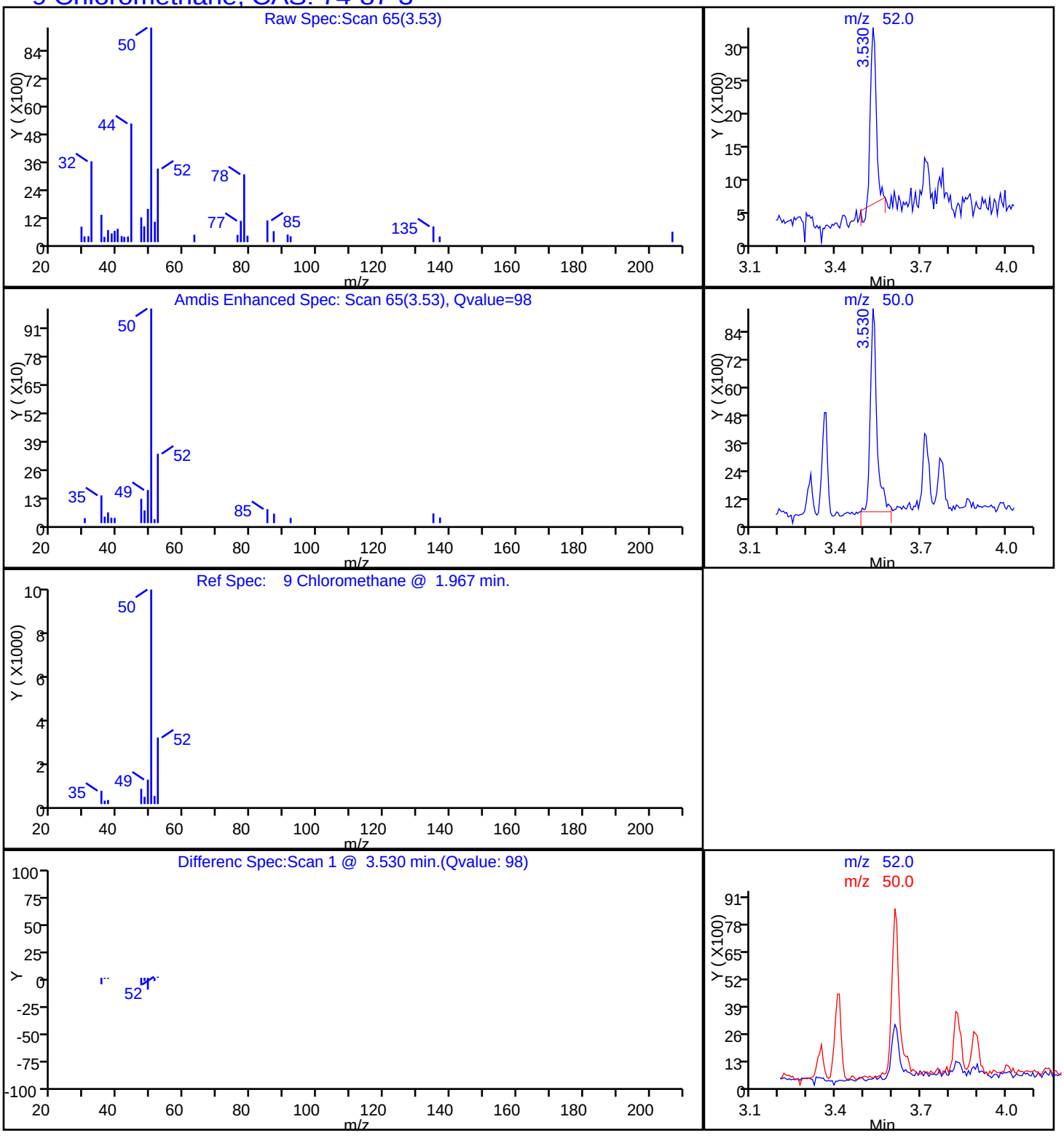
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3

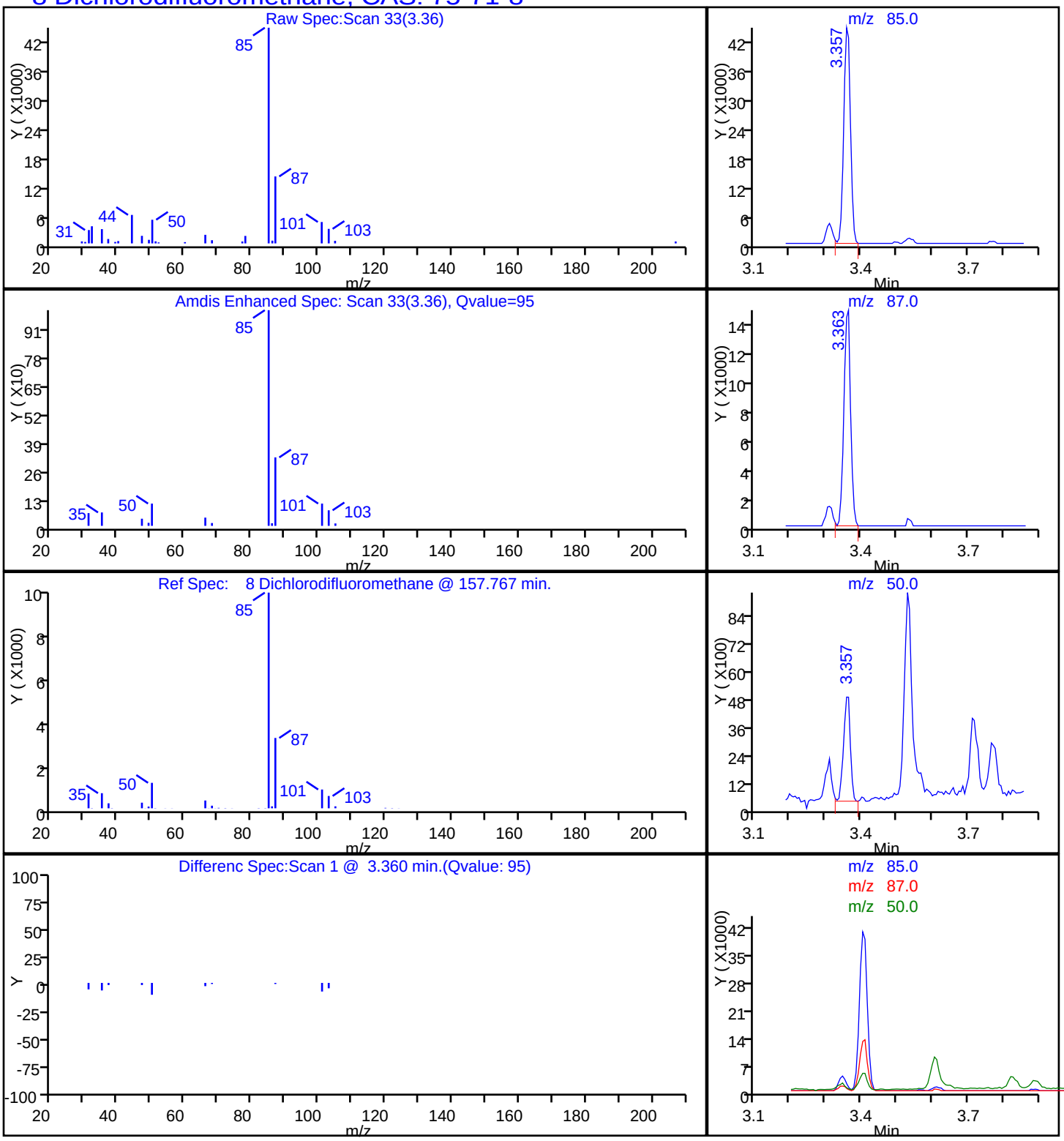


Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D				
Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20		
Client ID:	PCV-IA2-B8				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



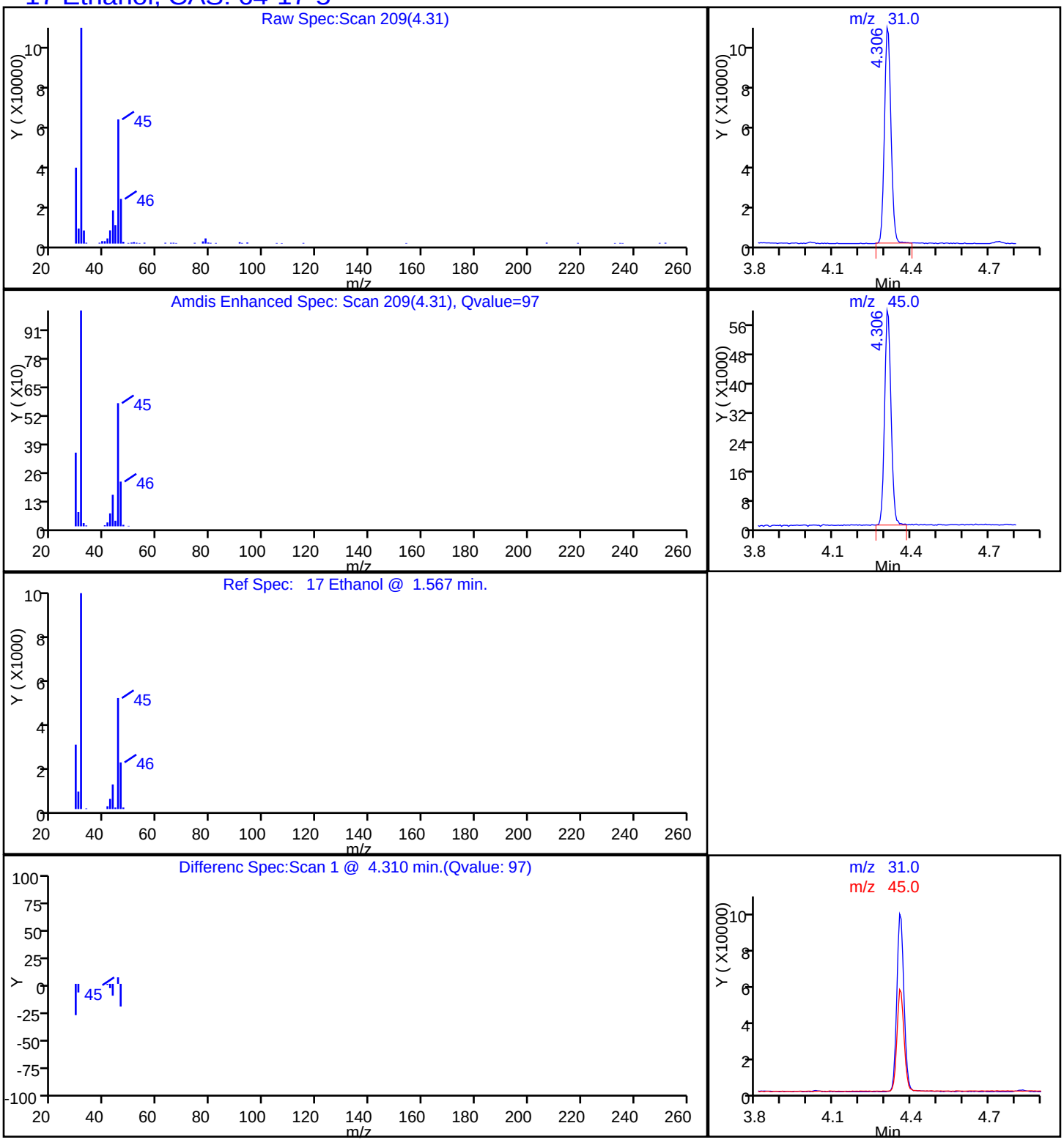
Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



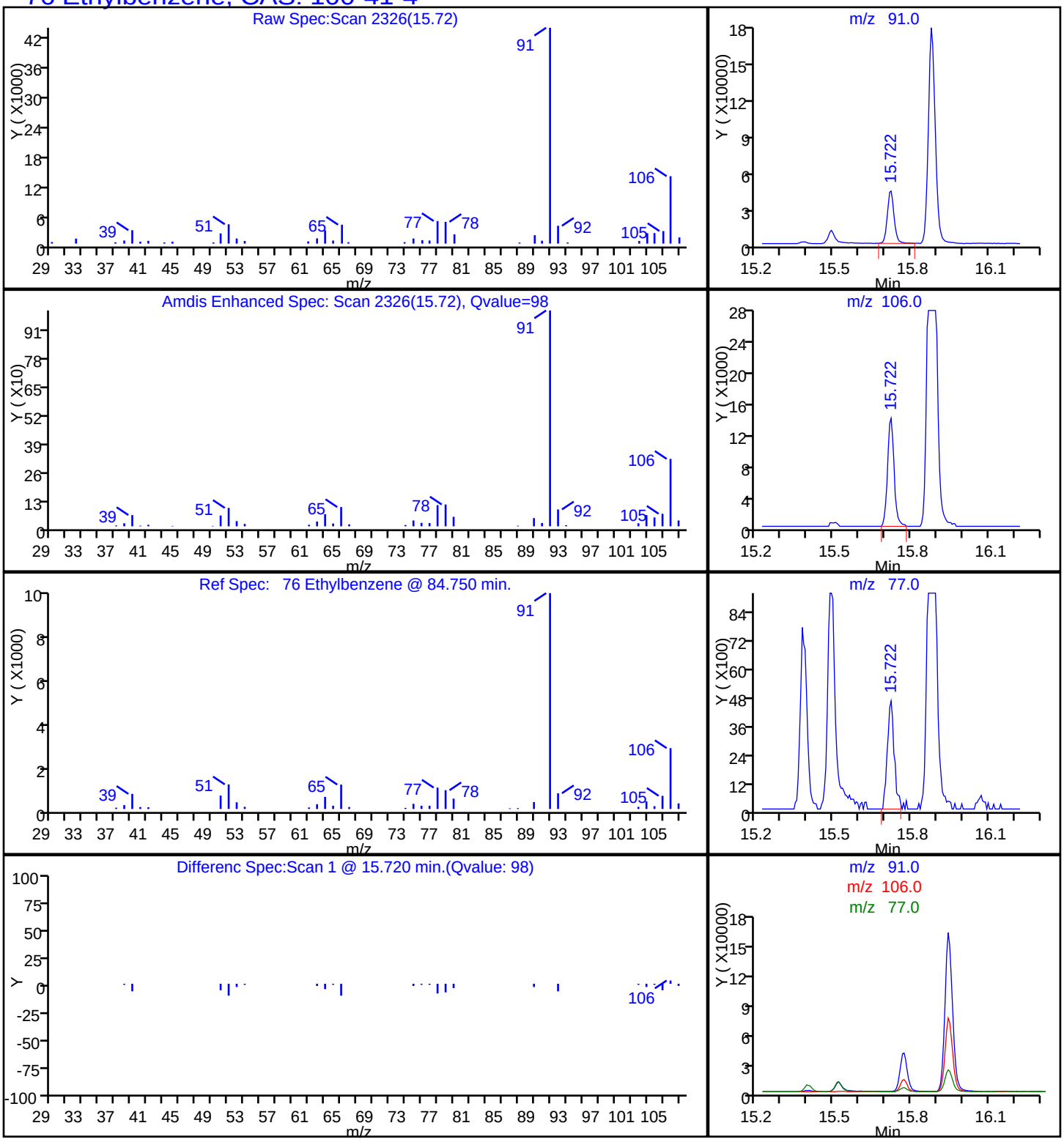
Report Date: 21-Mar-2014 09:50:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



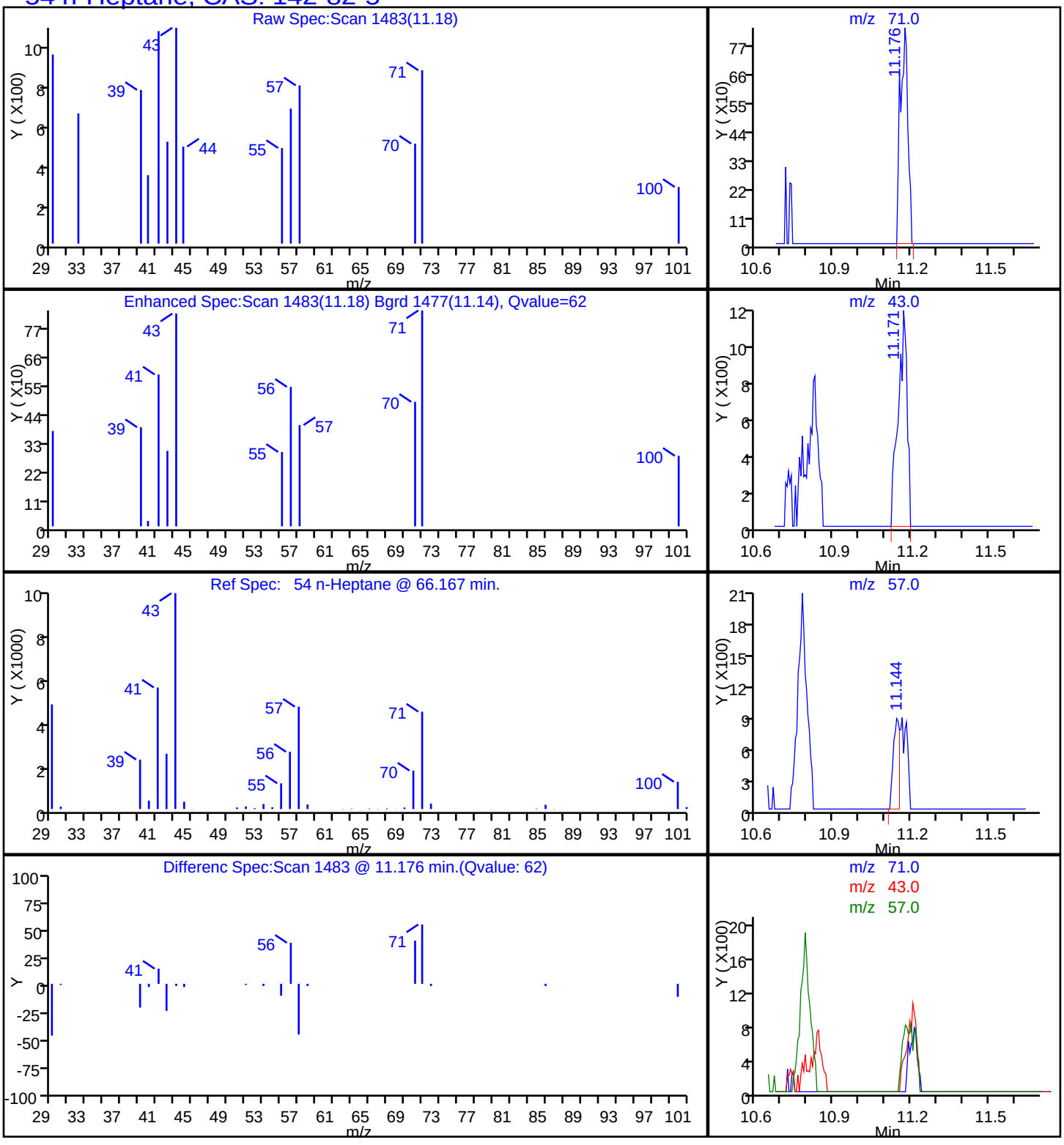
Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



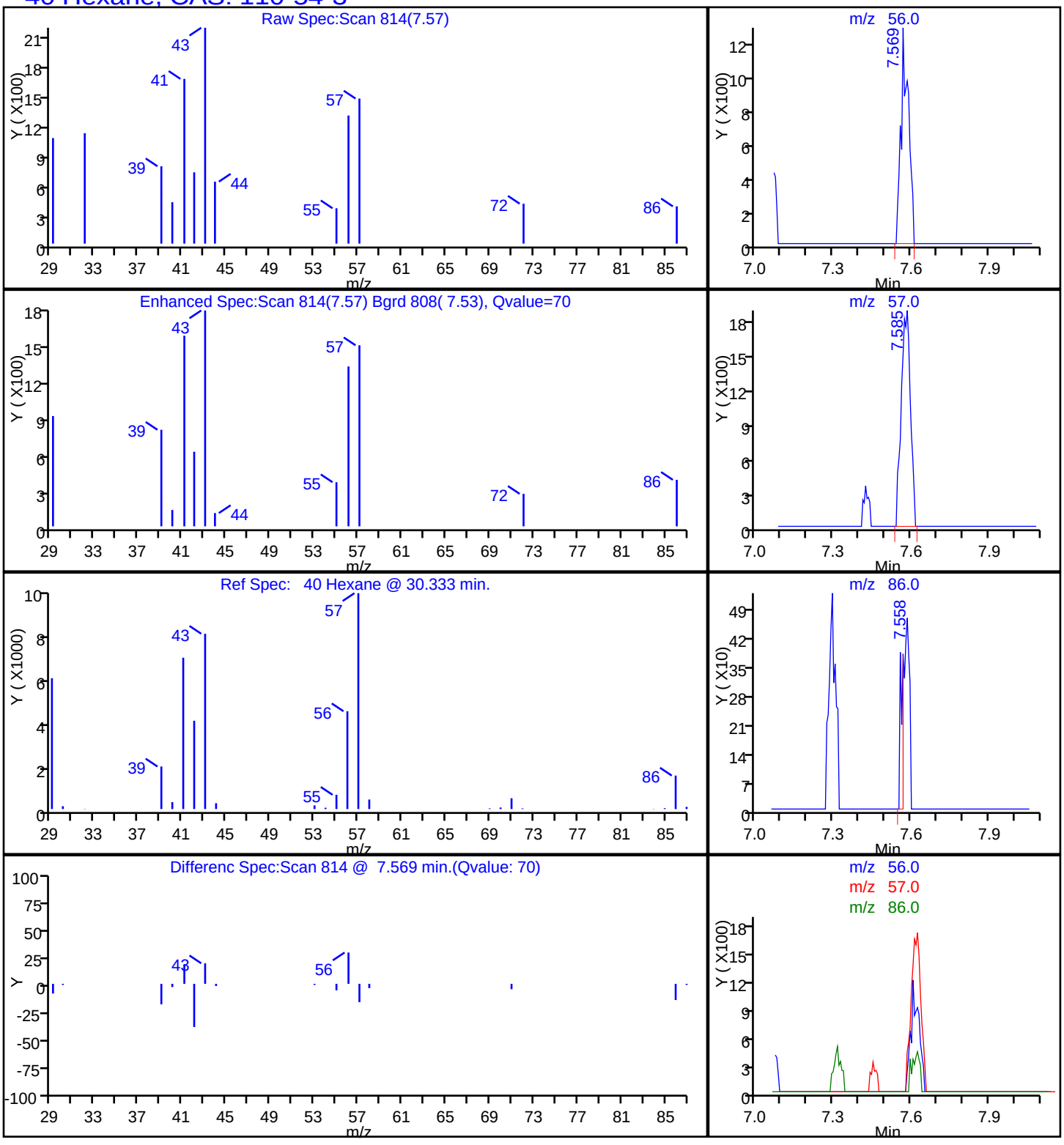
Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

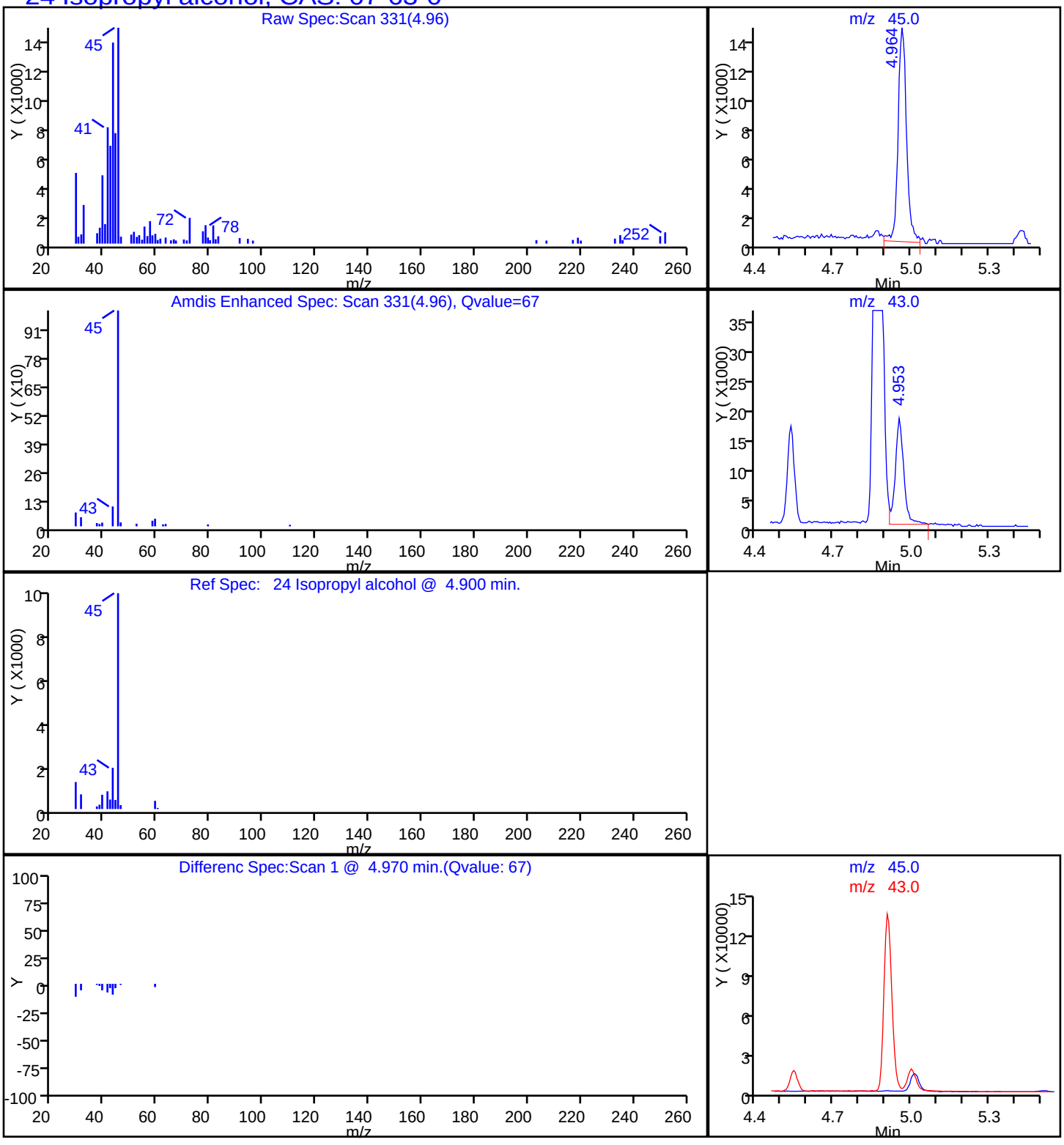
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



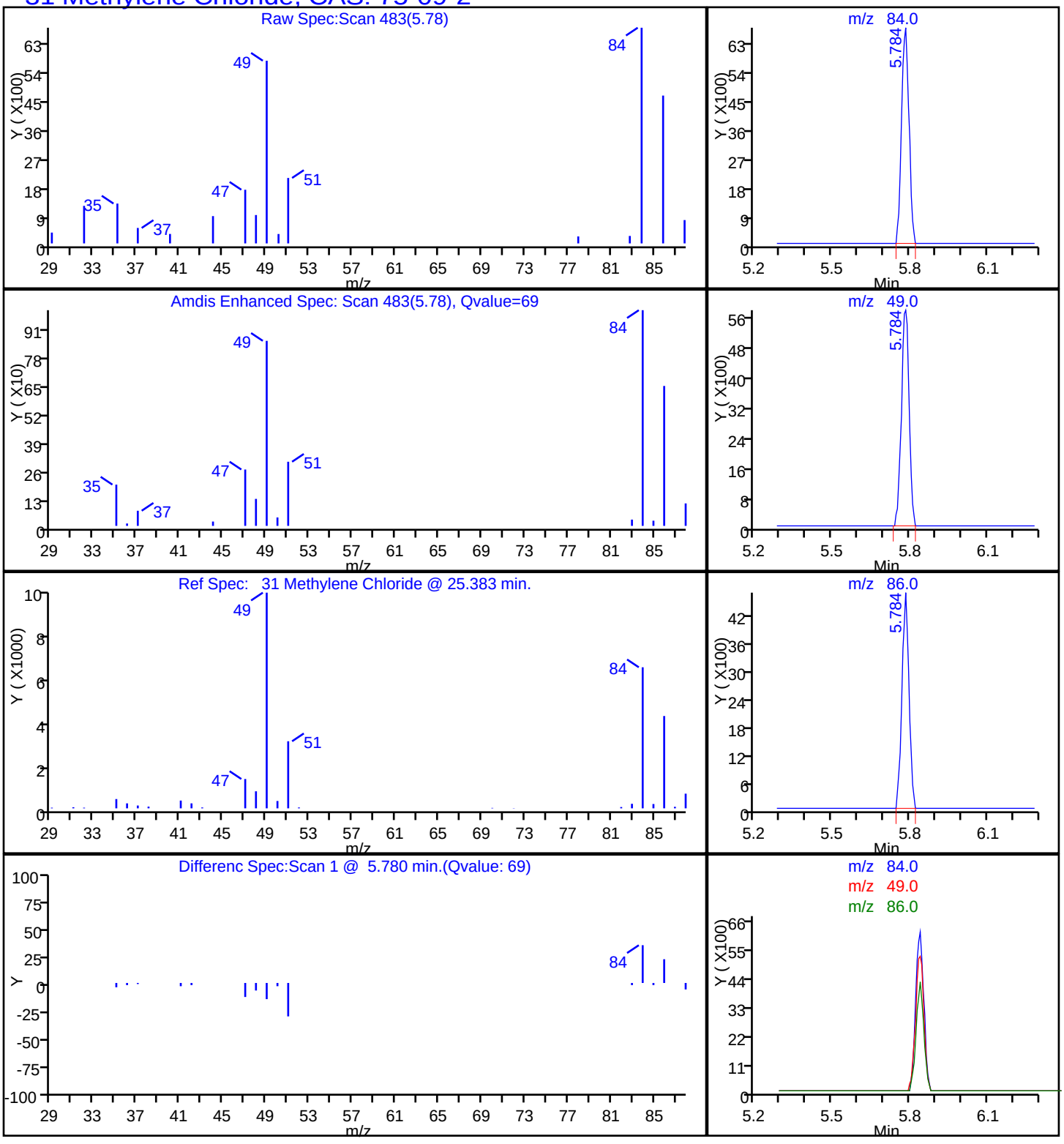
Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20		
Client ID:	PCV-IA2-B8				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

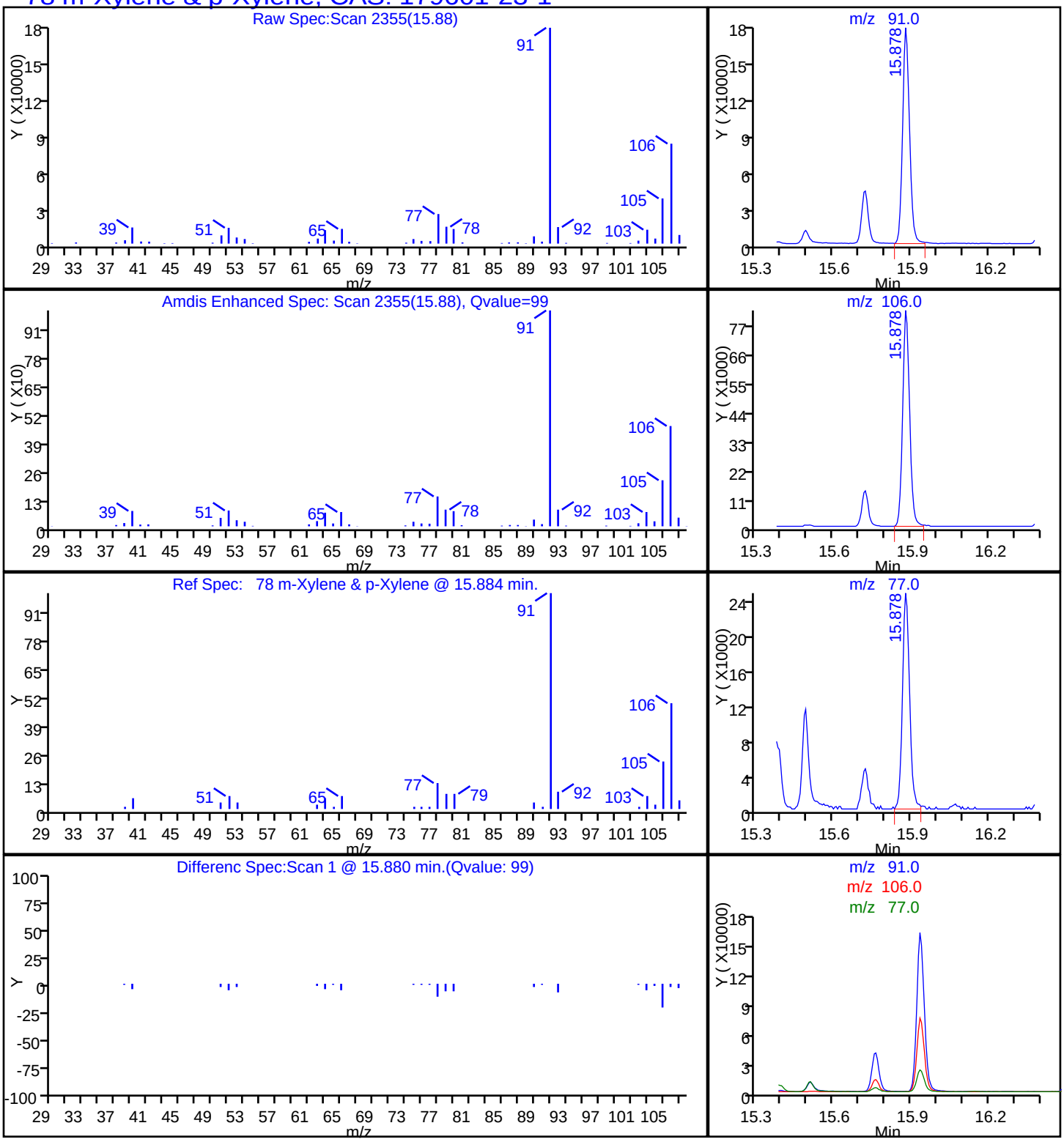


Report Date: 21-Mar-2014 09:50:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D				
Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20		
Client ID:	PCV-IA2-B8				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 21-Mar-2014 09:50:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

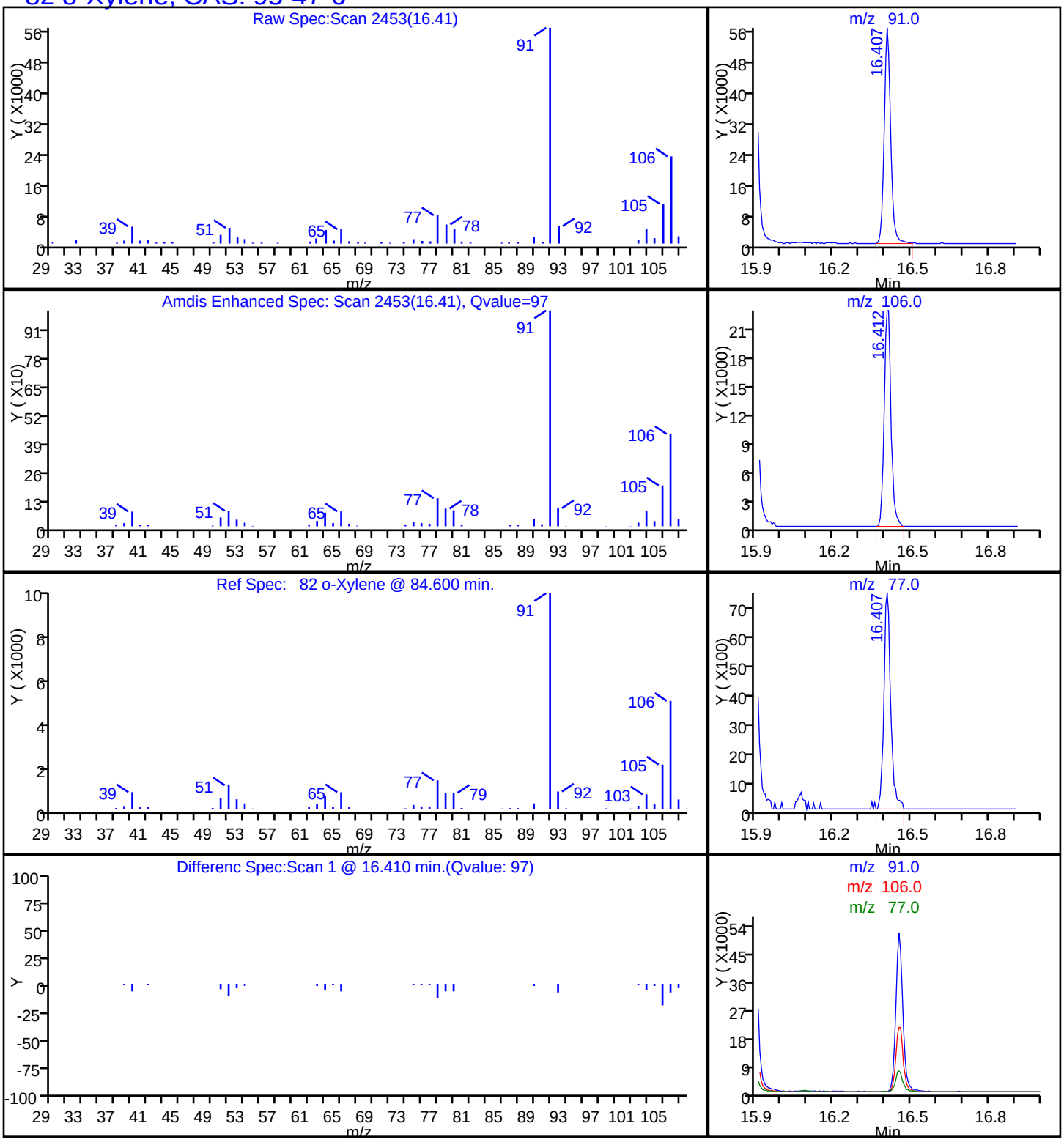
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

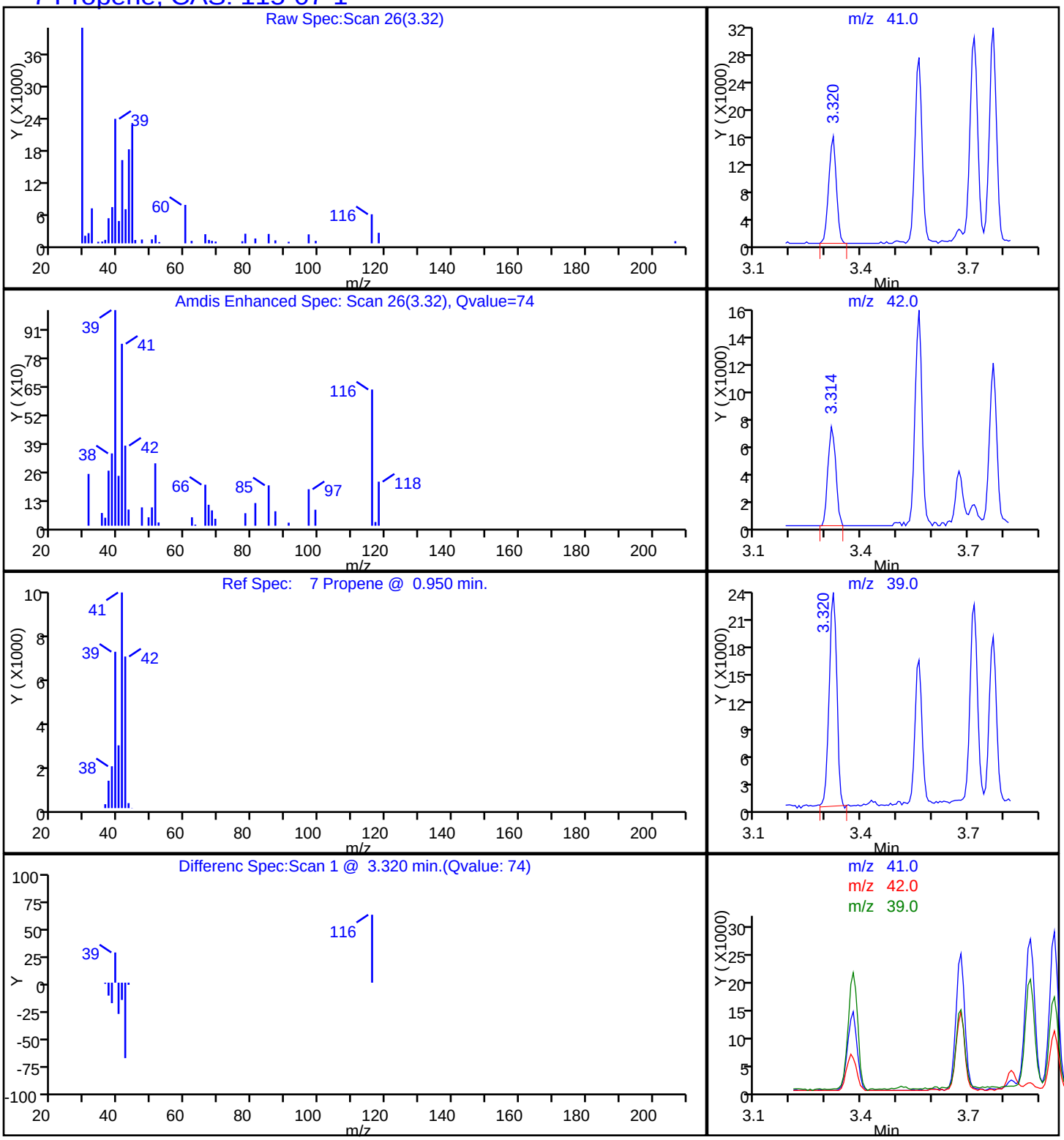
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



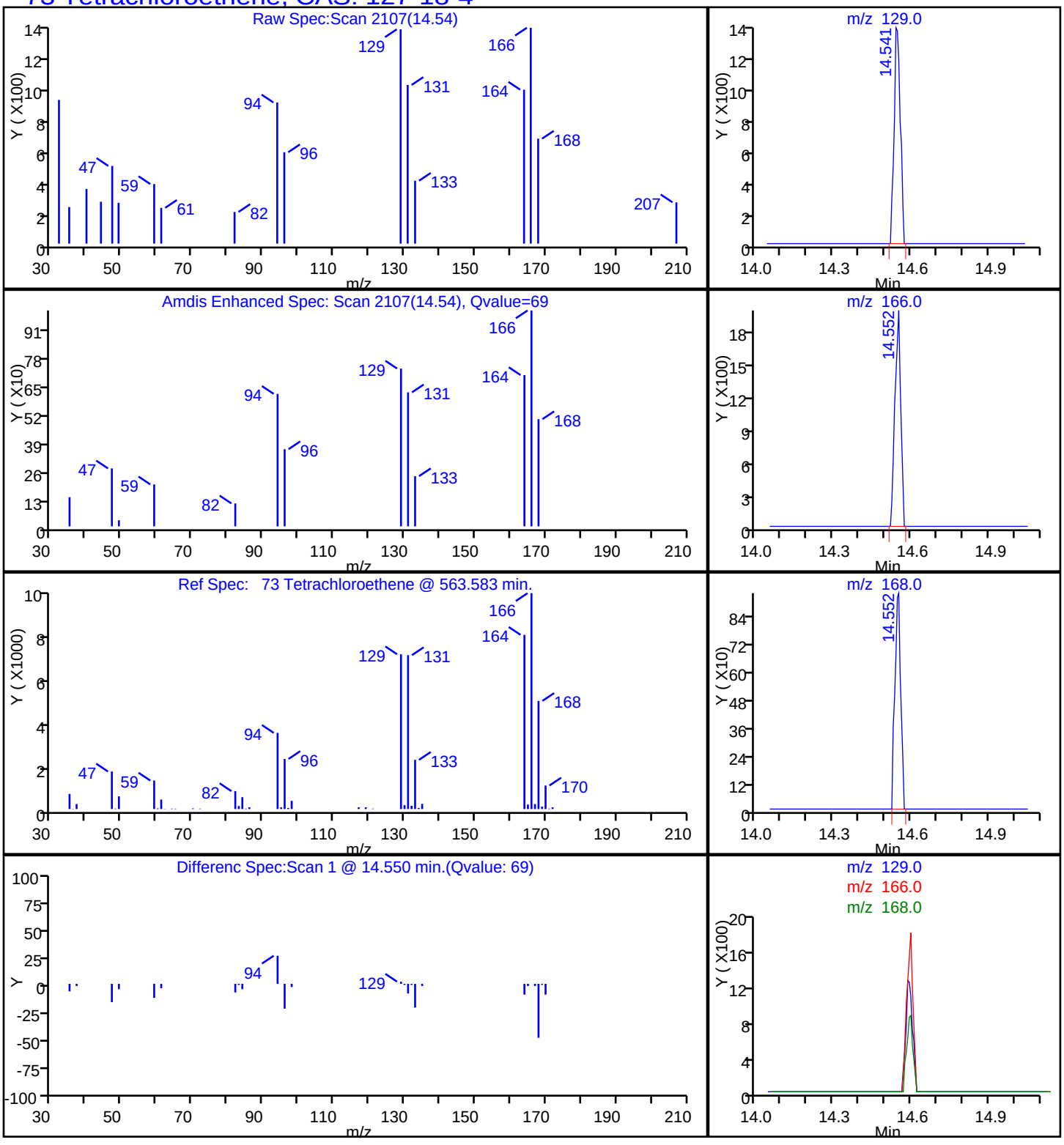
Report Date: 21-Mar-2014 09:50:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20
Client ID:	PCV-IA2-B8		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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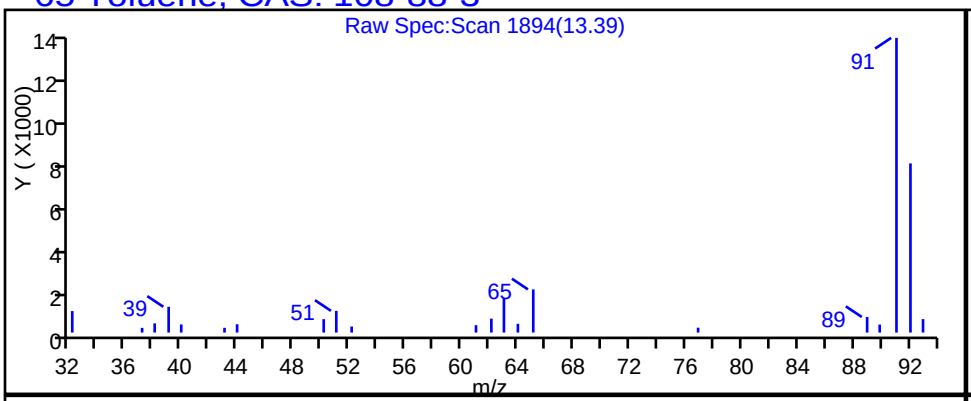
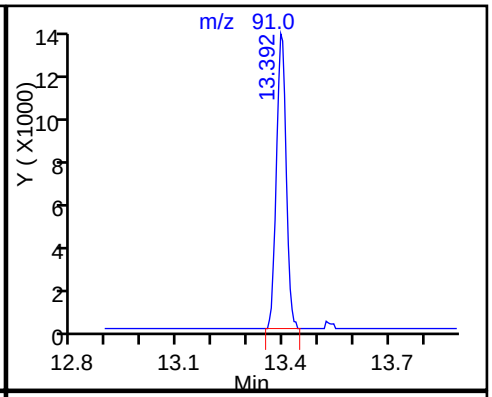
TestAmerica Knoxville

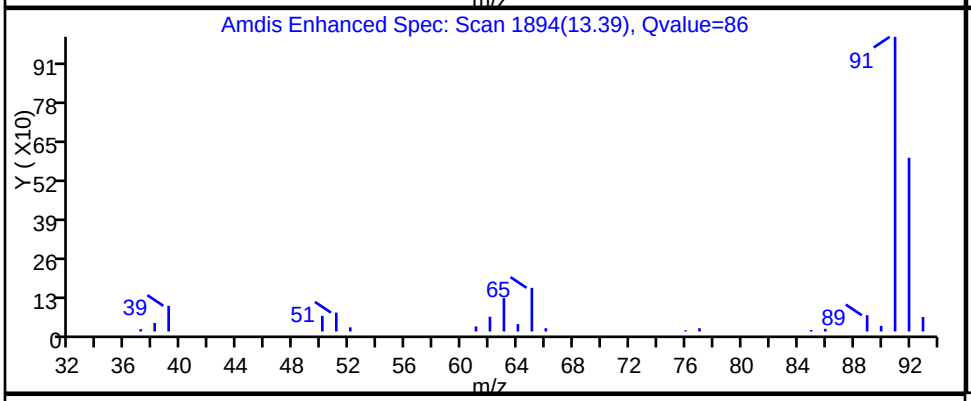
Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

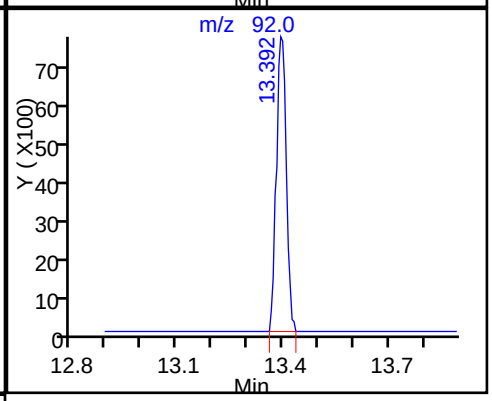
Injection Date:	21-Mar-2014 06:03:30	Instrument ID:	ME		
Lims ID:	140-1060-A-20	Lab Sample ID:	140-1060-20		
Client ID:	PCV-IA2-B8				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

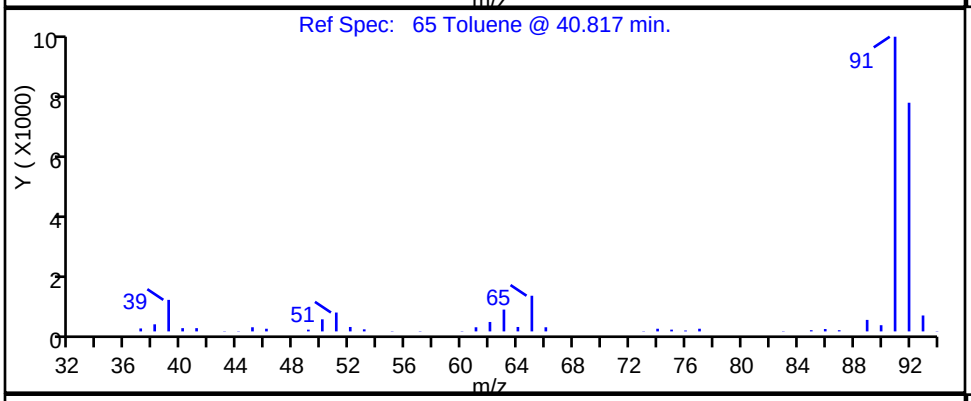
65 Toluene, CAS: 108-88-3

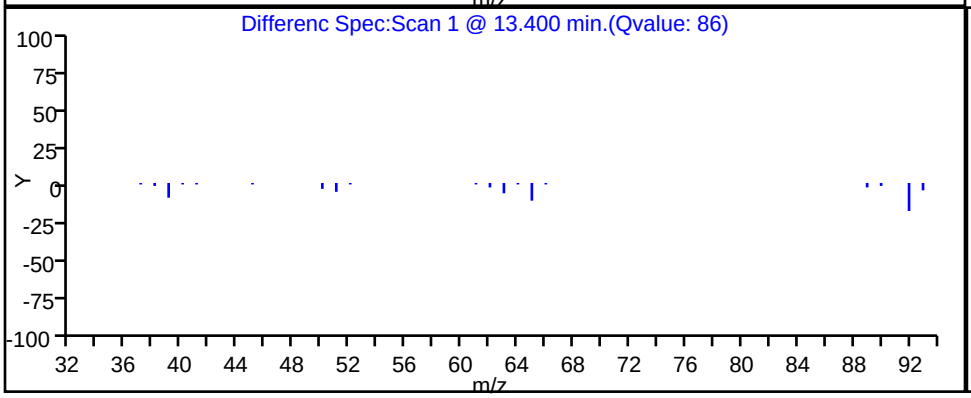


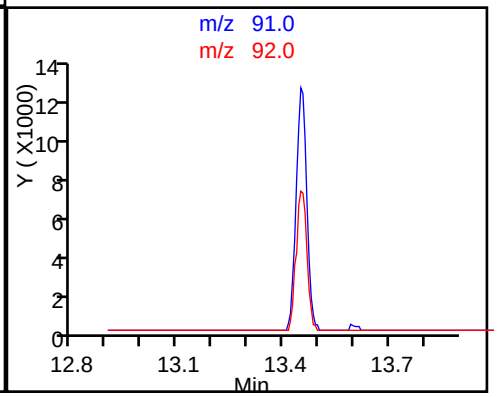












Report Date: 21-Mar-2014 09:50:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P203.D

Injection Date: 21-Mar-2014 06:03:30 Instrument ID: ME

Lims ID: 140-1060-A-20 Lab Sample ID: 140-1060-20

Client ID: PCV-IA2-B8

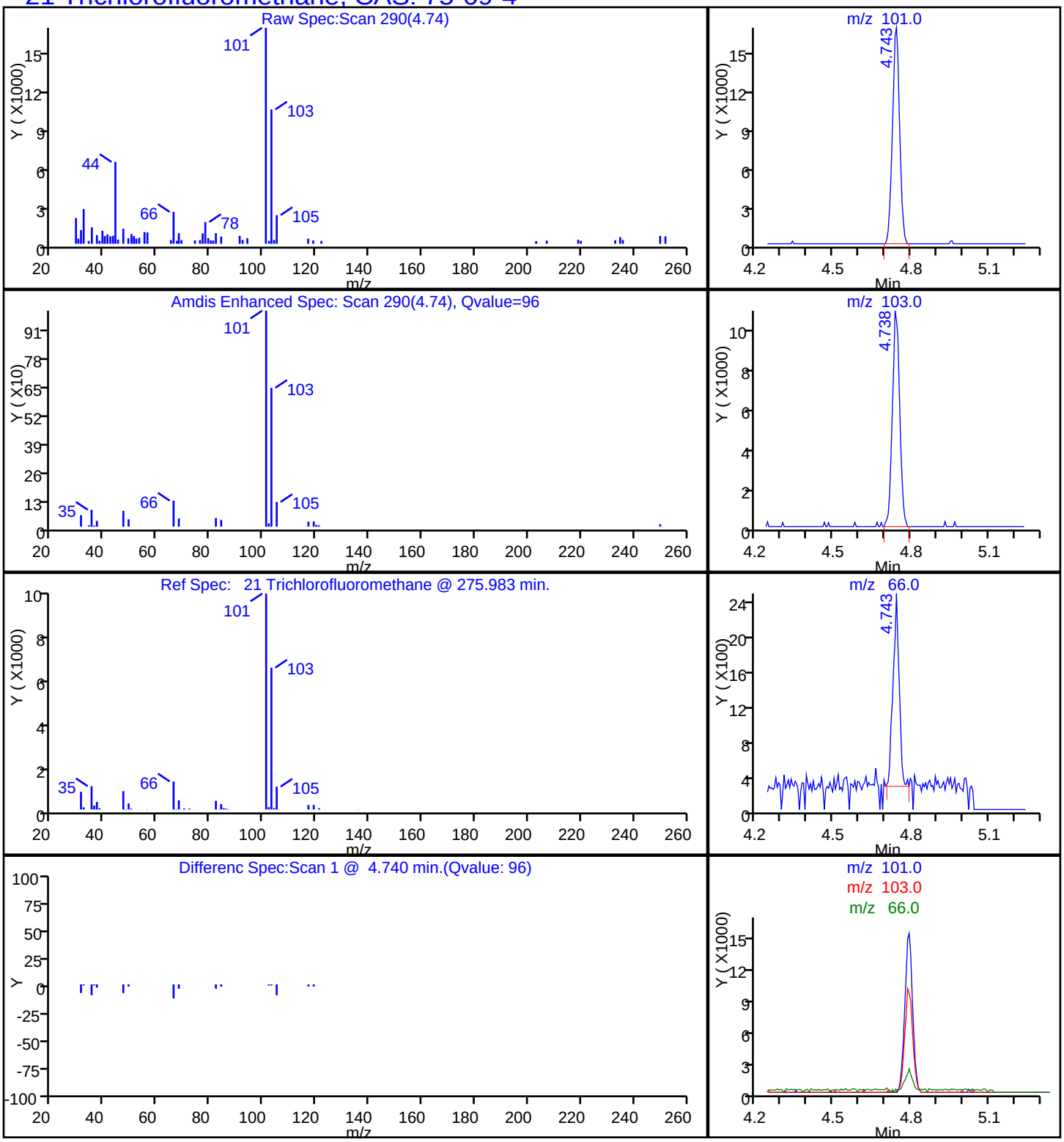
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

21 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.099	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.14	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.072	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.091	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.25	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.82		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.19	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.13	J	0.50	0.045
67-64-1	Acetone	58.08	3.2	J *	5.0	1.4
71-43-2	Benzene	78.11	0.32		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.053	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.063	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.059	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	130		2.0	2.0
100-41-4	Ethylbenzene	106.17	1.1		0.20	0.068
142-82-5	Heptane	100.21	0.12	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.23	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	5.1		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	2.0		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	0.068	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.048	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.63		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.8		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.48	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.31	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.43	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.42	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.75	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.91	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.52	J	2.0	0.18
67-64-1	Acetone	58.08	7.5	J *	12	3.3
71-43-2	Benzene	78.11	1.0		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.34	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.20	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	240		3.8	3.8
100-41-4	Ethylbenzene	106.17	5.0		0.87	0.30
142-82-5	Heptane	100.21	0.50	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.80	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.0		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	22		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	8.7		0.87	0.26
115-07-1	Propene	42.08	2.1	cn	0.86	0.13
100-42-5	Styrene	104.15	0.29	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.33	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA1-B20 Lab Sample ID: 140-1060-21

Matrix: Air Lab File ID: JC21P102.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:37

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D
Lims ID: 140-1060-A-21 Lab Sample ID: 140-1060-21
Client ID: PCV-IA1-B20
Sample Type: Client
Inject. Date: 21-Mar-2014 16:26:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-21
Misc. Info.: J032114,TO15,,140-0000540-007
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 08:39:59 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:39:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.379	-0.005	90	363306	4.00	
* 2 1,4-Difluorobenzene	114	11.531	11.530	0.001	94	1734595	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.194	0.001	86	1385459	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.815	17.814	0.001	91	922884	3.77	
7 Propene	41	3.979	3.972	0.007	98	55318	0.4966	
8 Dichlorodifluoromethane	85	4.027	4.031	-0.004	96	61601	0.1712	
9 Chloromethane	52	4.226	4.231	-0.005	97	9202	0.2251	
14 Butadiene	54	4.517	4.516	0.001	26	5226	0.0558	
17 Ethanol	31	5.124	5.113	0.011	94	1476823	50.6	
19 2-Methylbutane	43	5.404	5.409	-0.005	92	50407	0.3267	
20 Trichlorofluoromethane	101	5.641	5.640	0.001	90	26175	0.0828	
23 Acetone	58	5.765	5.769	-0.004	98	65225	1.26	
24 Isopropyl alcohol	45	5.856	5.844	0.012	94	133827	0.9814	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.572	6.576	-0.004	63	5871	0.0268	
31 Methylene Chloride	84	6.749	6.753	-0.004	93	19855	0.2043	
39 2-Butanone (MEK)	72	8.600	8.583	0.018	82	3506	0.1019	
40 Hexane	56	8.627	8.631	-0.005	88	8834	0.0904	
43 Chloroform	83	9.380	9.389	-0.009	3	5304	0.0251	
48 Benzene	78	11.015	11.014	0.001	93	38367	0.1289	
49 Cyclohexane	69	11.020	11.025	-0.005	41	1394	0.0237	
50 Carbon tetrachloride	117	11.042	11.046	-0.004	78	5257	0.0214	
53 Isooctane	57	11.752	11.756	-0.004	86	18452	0.0363	
54 n-Heptane	71	12.112	12.117	-0.005	79	5118	0.0486	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.365	0.006	85	9168	0.0504	
65 Toluene	91	14.248	14.247	0.001	92	64571	0.2512	
73 Tetrachloroethene	129	15.378	15.377	0.001	61	2307	0.0193	
76 Ethylbenzene	91	16.524	16.523	0.001	98	129674	0.4568	
78 m-Xylene & p-Xylene	91	16.680	16.684	-0.004	99	470466	2.05	
80 Styrene	104	17.142	17.141	0.001	44	4309	0.0274	
82 o-Xylene	91	17.207	17.206	0.001	98	185413	0.7984	
88 4-Ethyltoluene	105	18.444	18.444	0.001	85	22843	0.0740	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
89 1,3,5-Trimethylbenzene	120	18.514	18.513	0.001	80	6119	0.0394	
93 1,2,4-Trimethylbenzene	105	18.939	18.938	0.001	93	39664	0.1474	
97 1,4-Dichlorobenzene	146	19.289	19.288	0.001	66	4708	0.0286	

QC Flag Legend

Review Flags
M - Manually Integrated

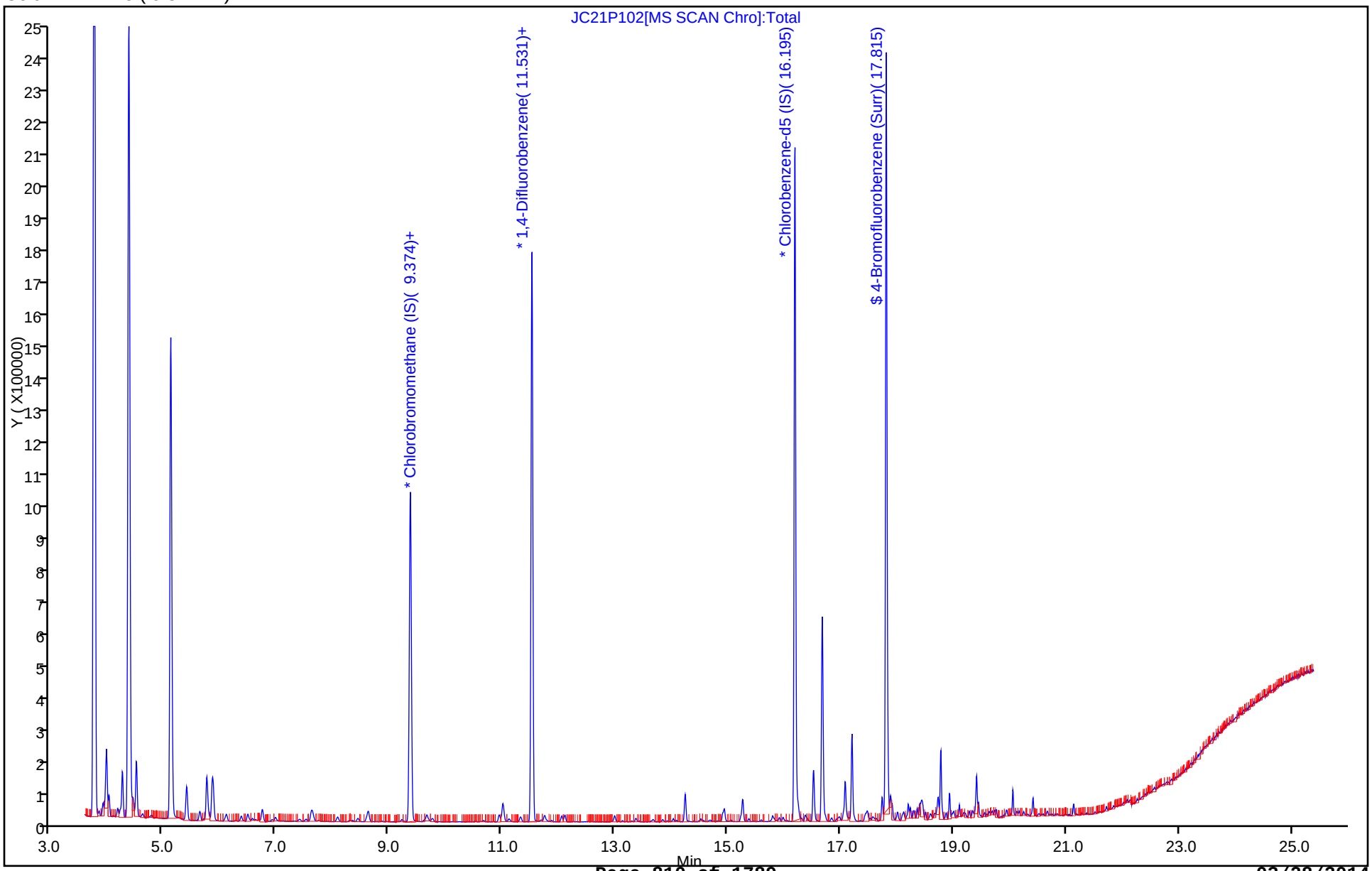
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21	Worklist Smp#:	7
Client ID:	PCV-IA1-B20				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



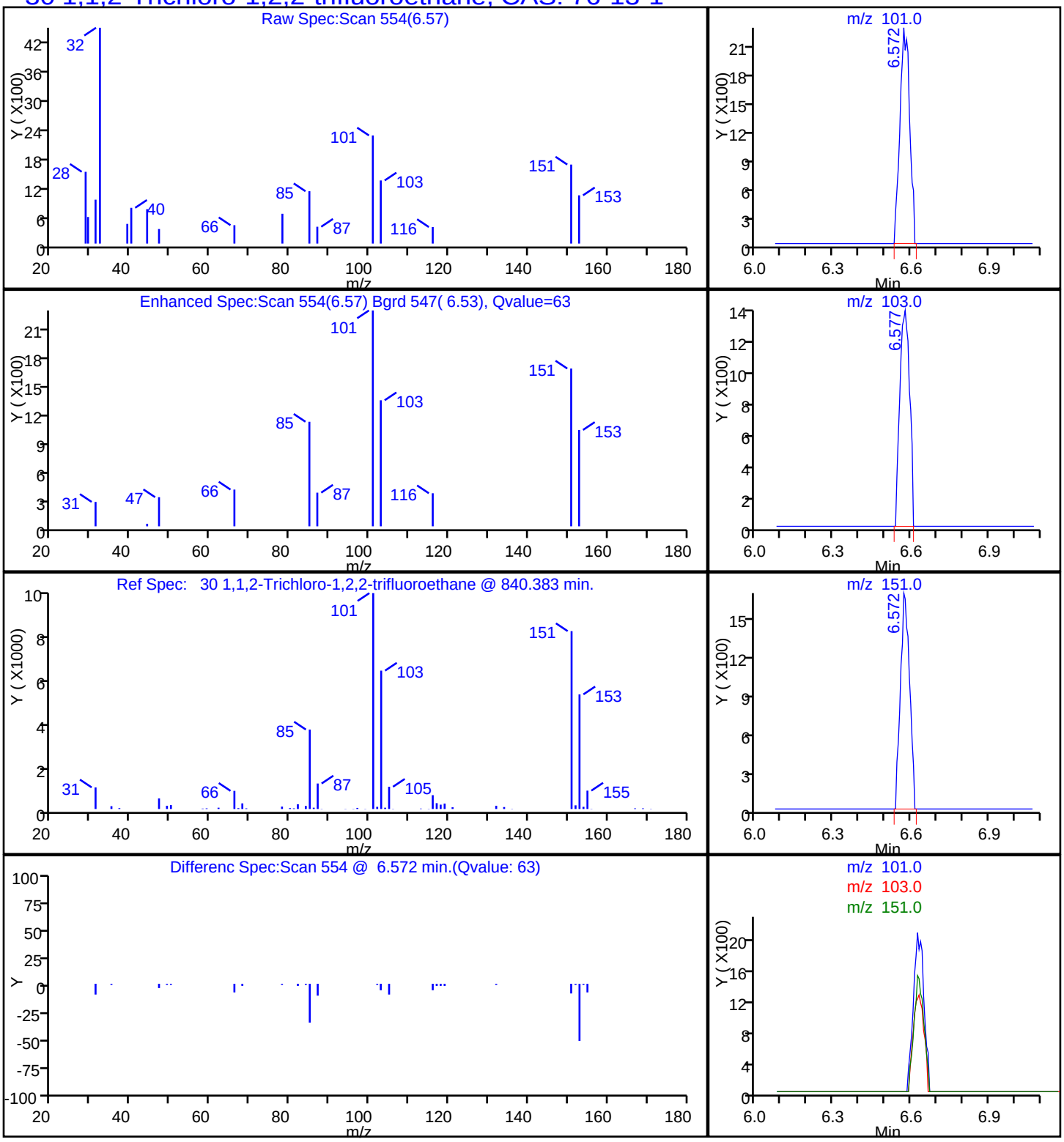
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



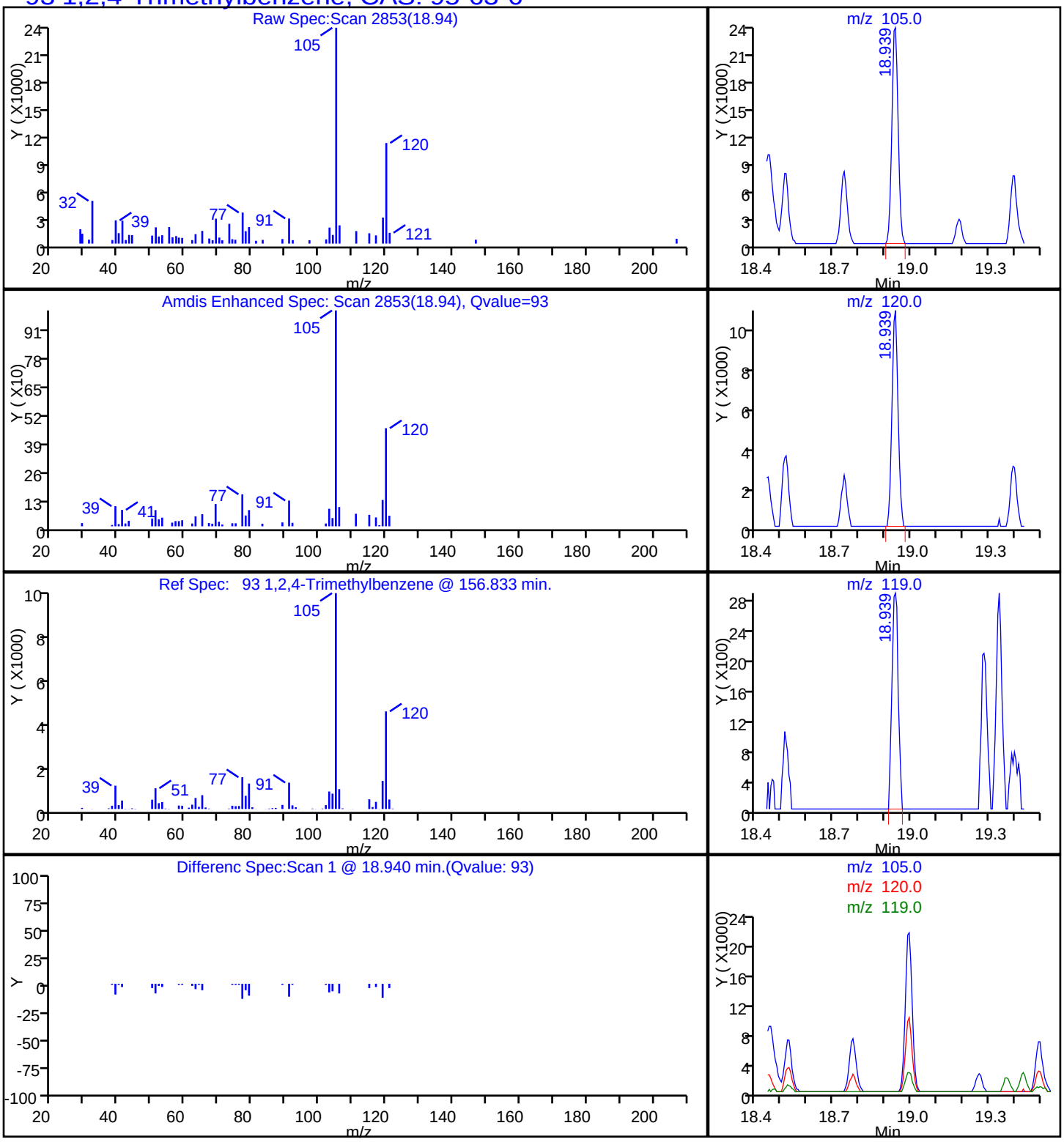
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date: 21-Mar-2014 16:26:30 Instrument ID: MJ

Lims ID: 140-1060-A-21 Lab Sample ID: 140-1060-21

Client ID: PCV-IA1-B20

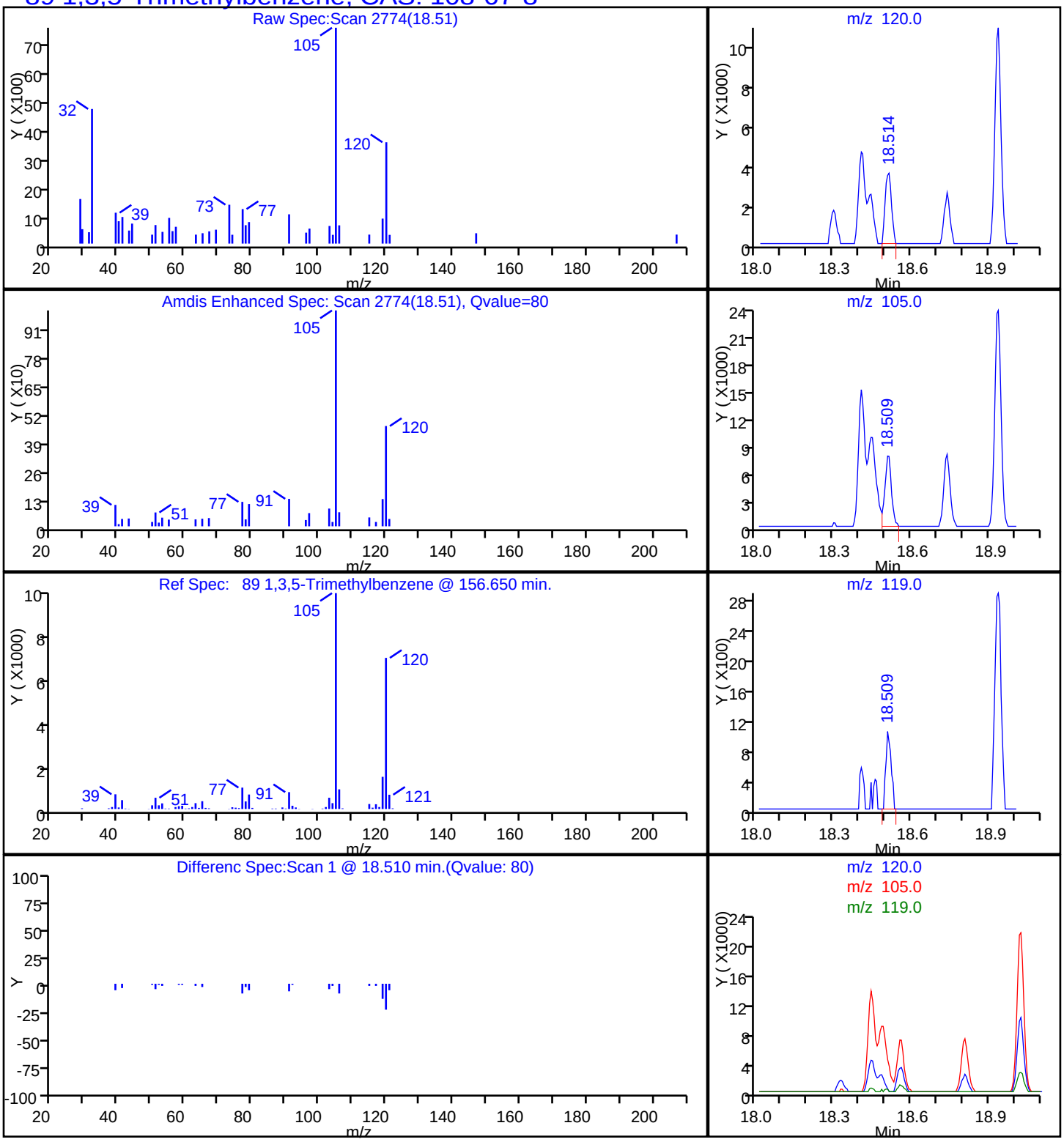
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



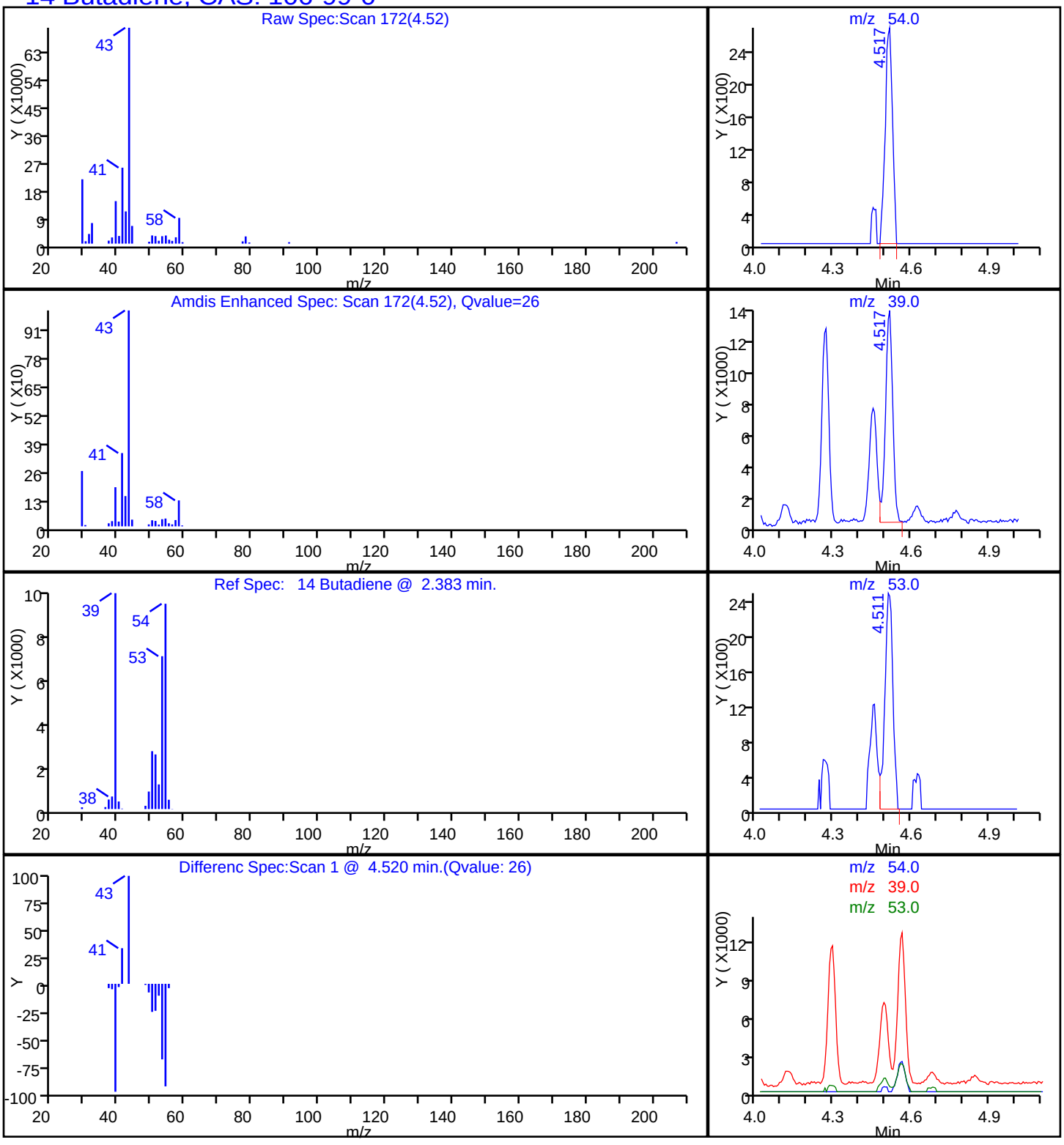
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butadiene, CAS: 106-99-0



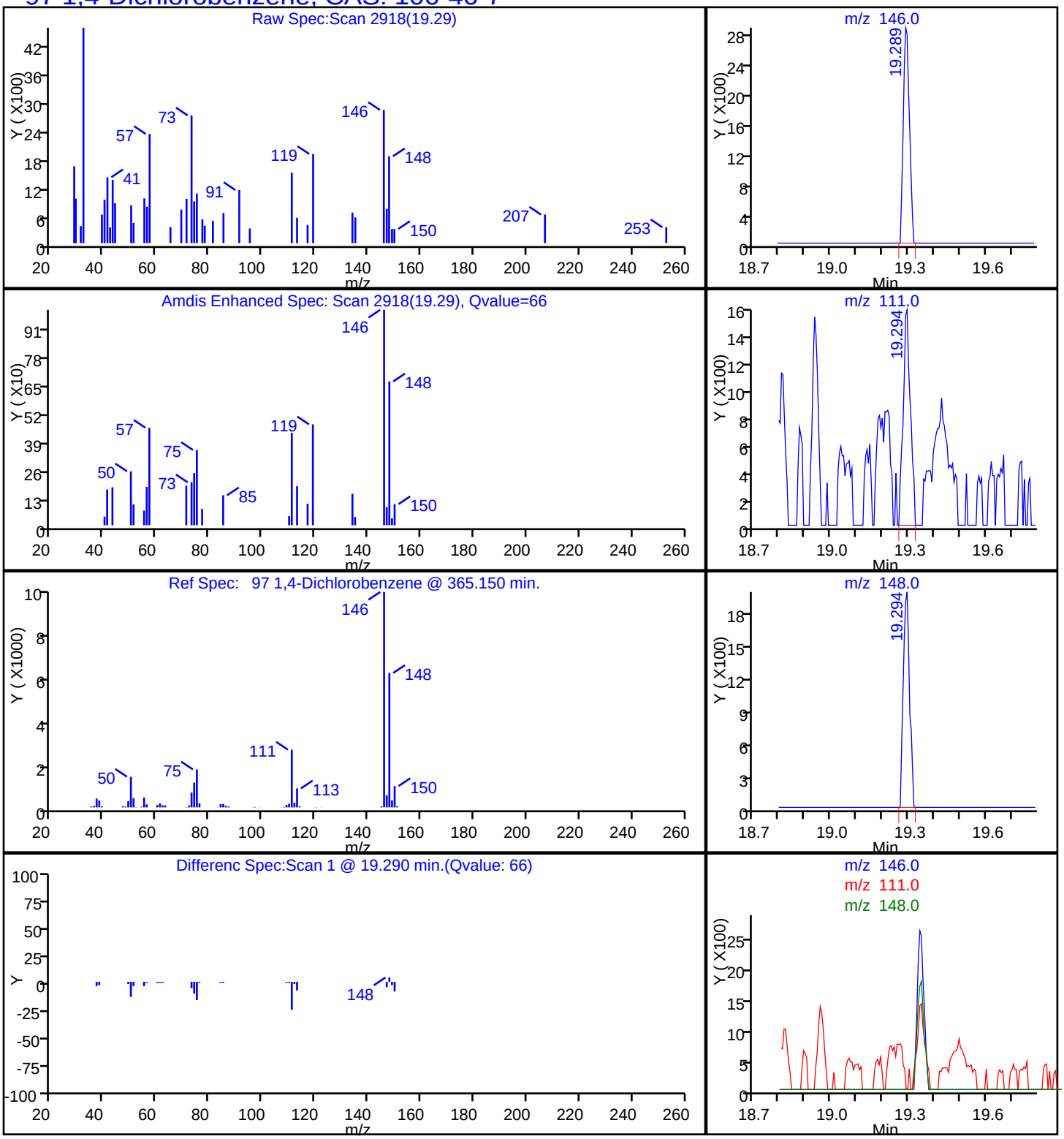
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



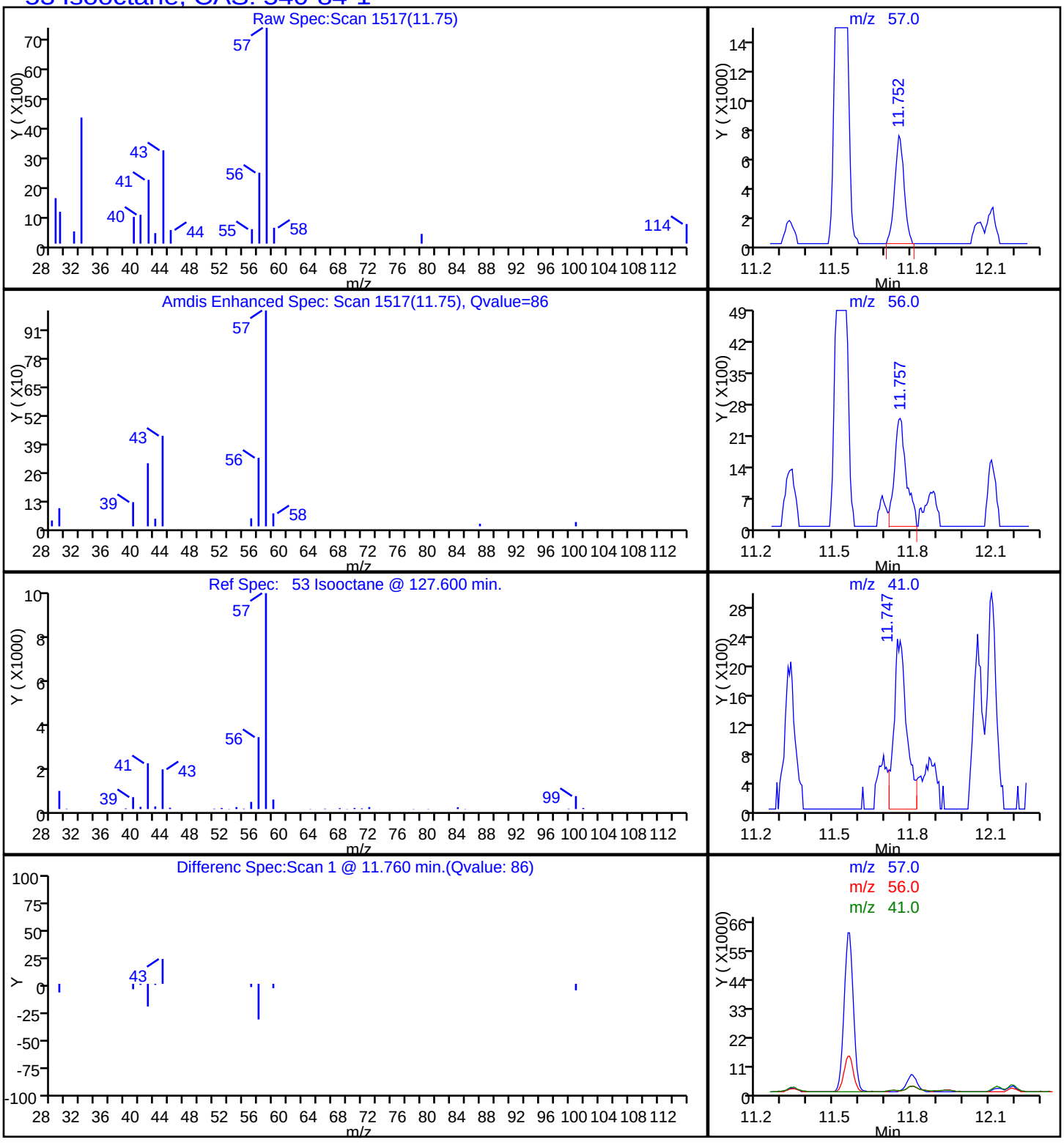
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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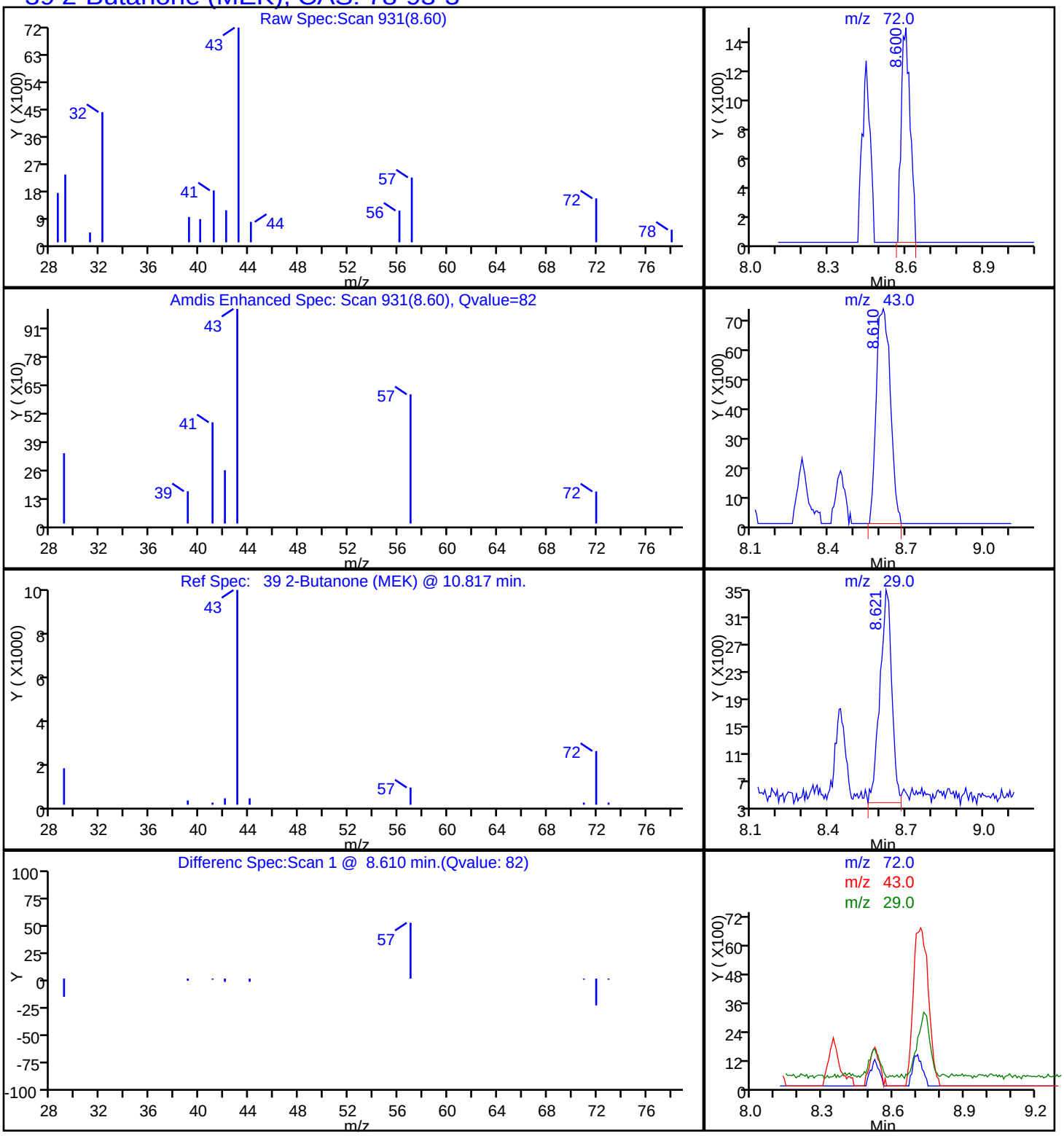
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



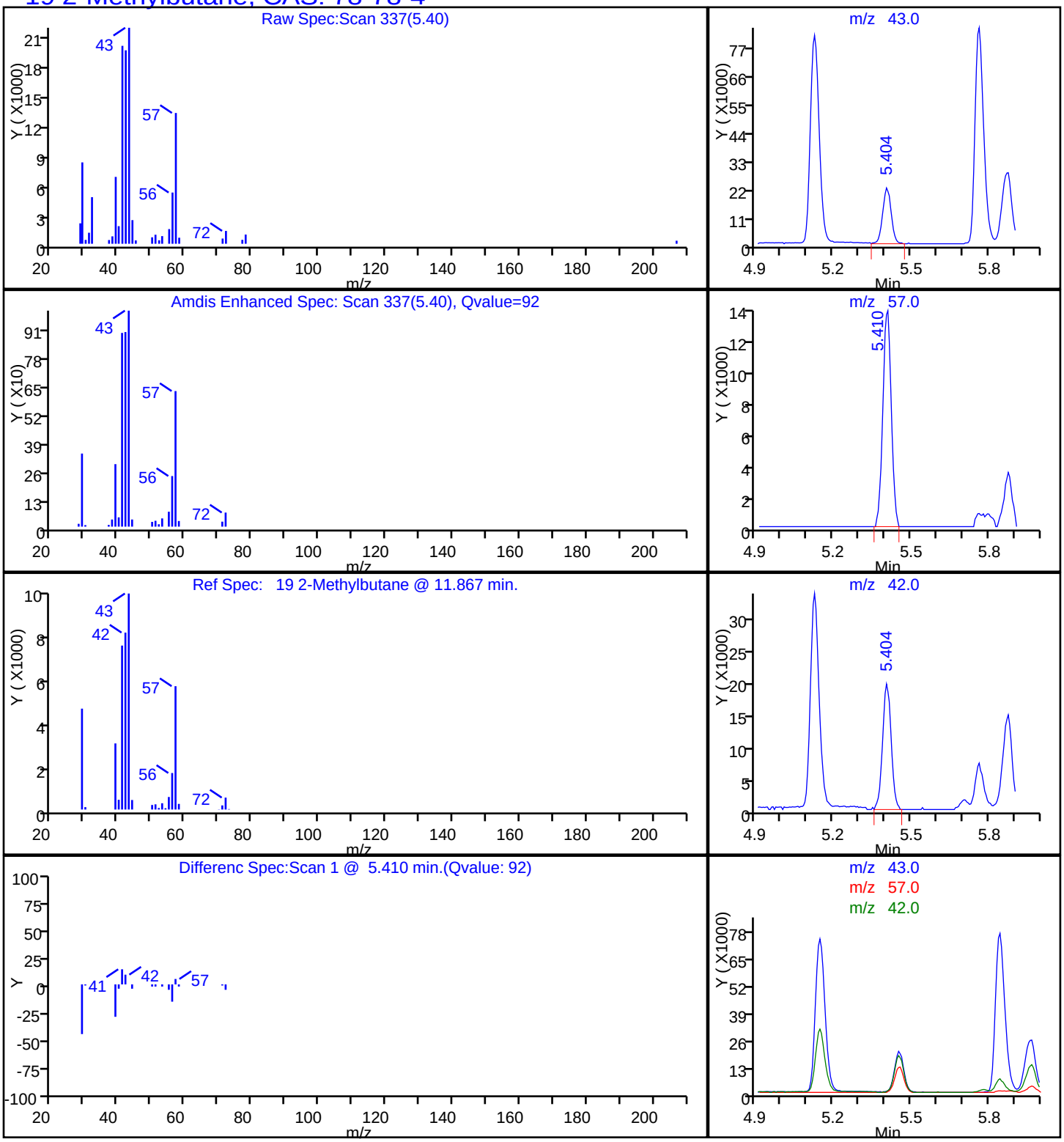
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



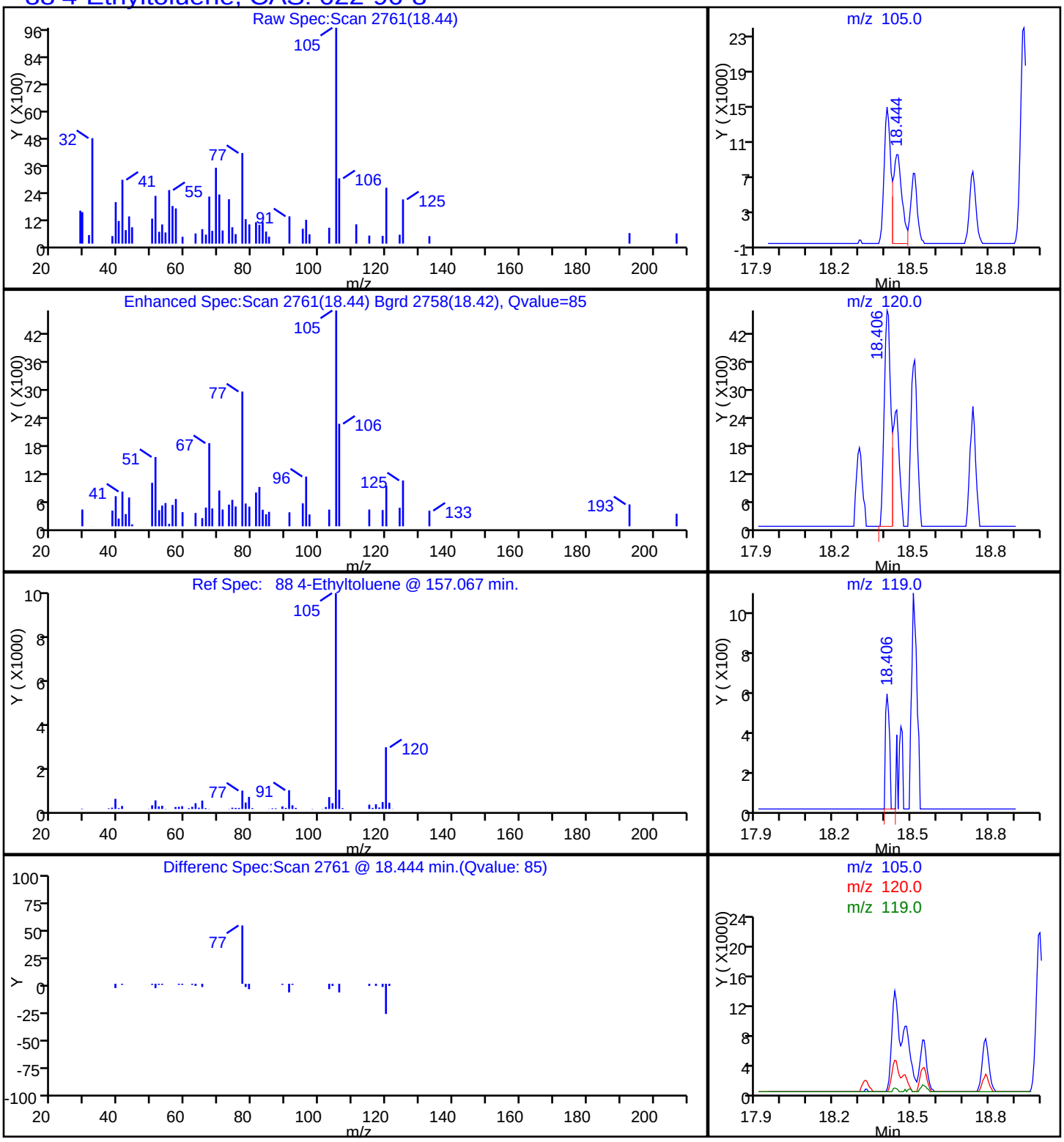
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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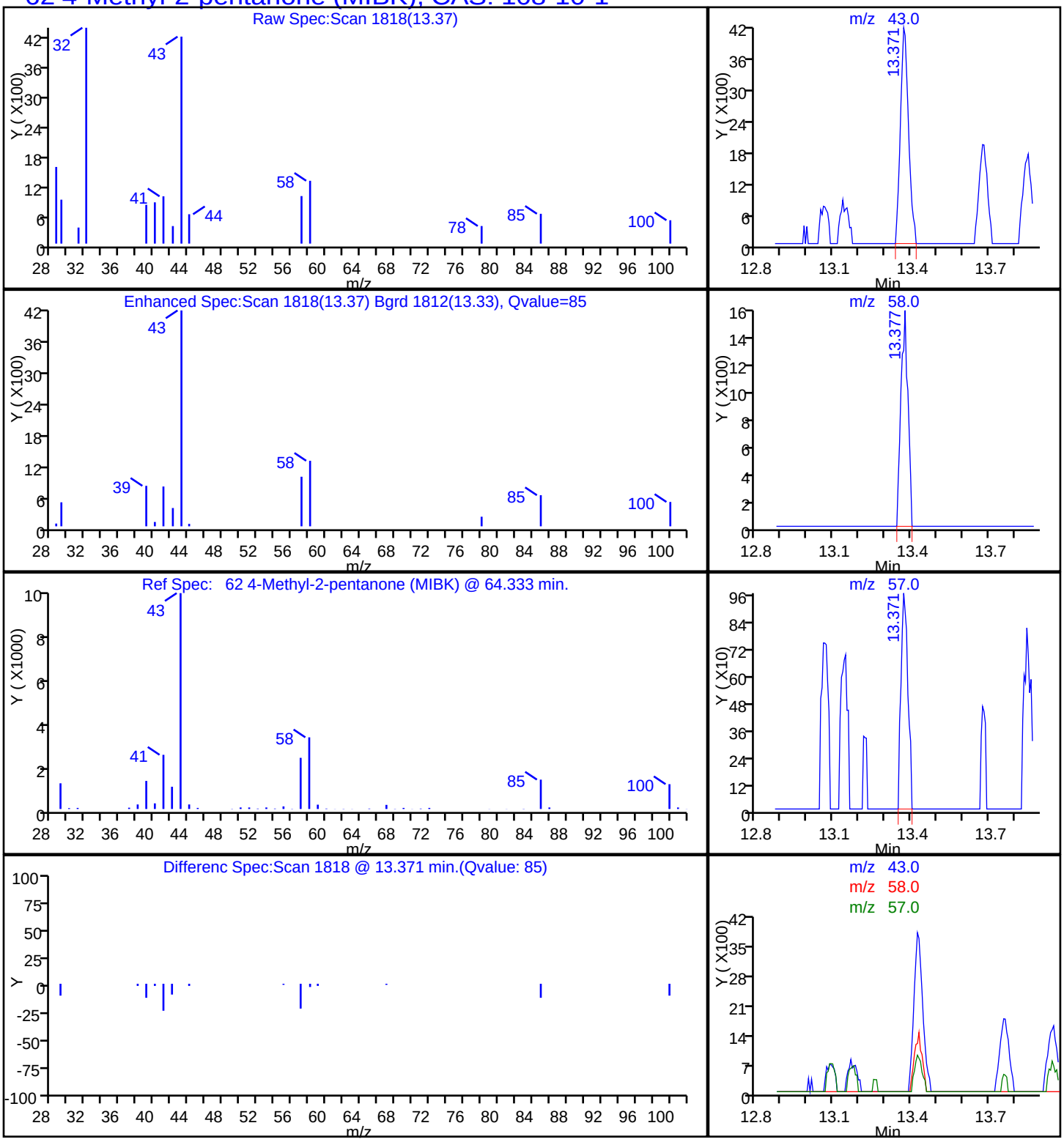
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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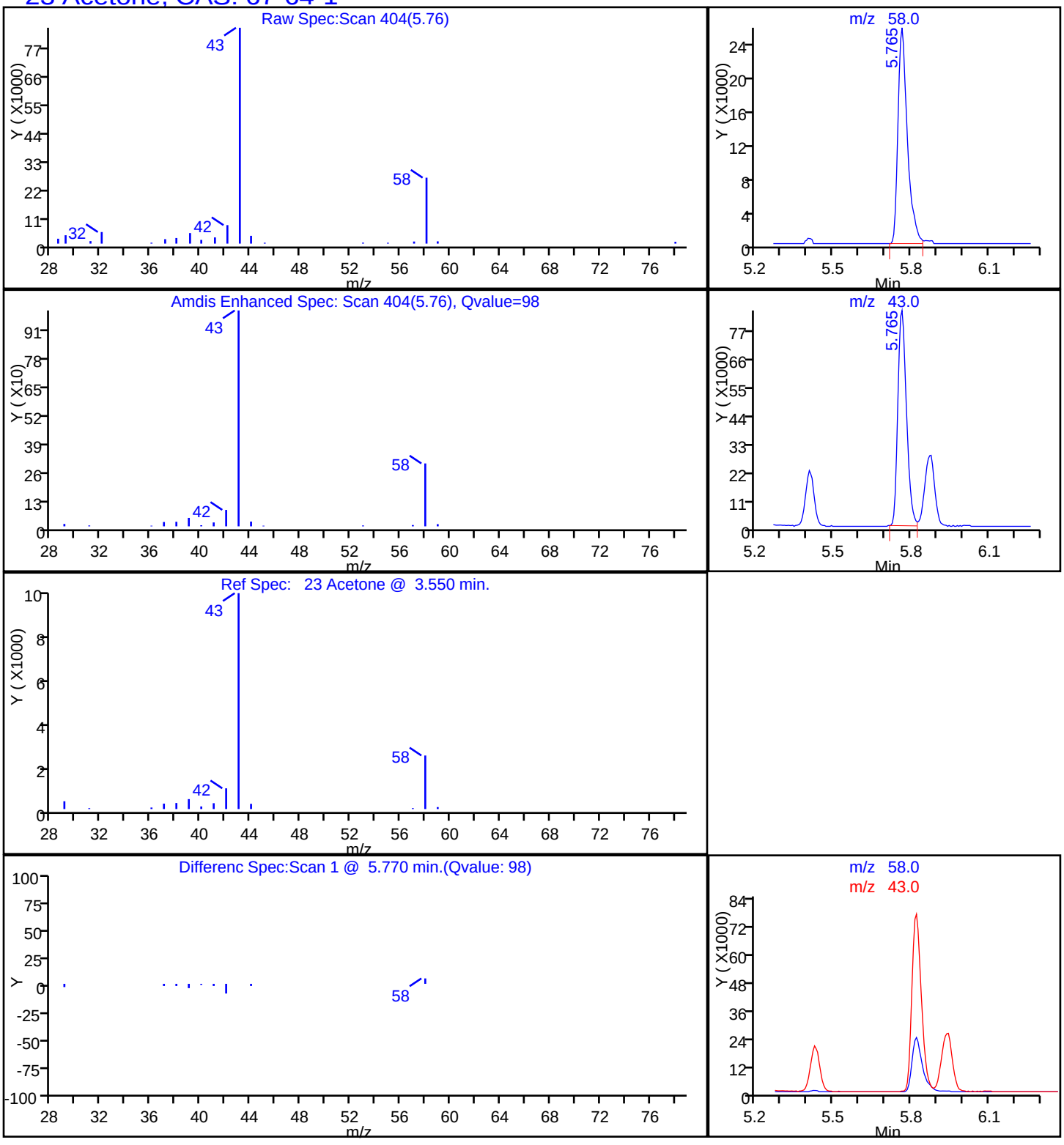
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



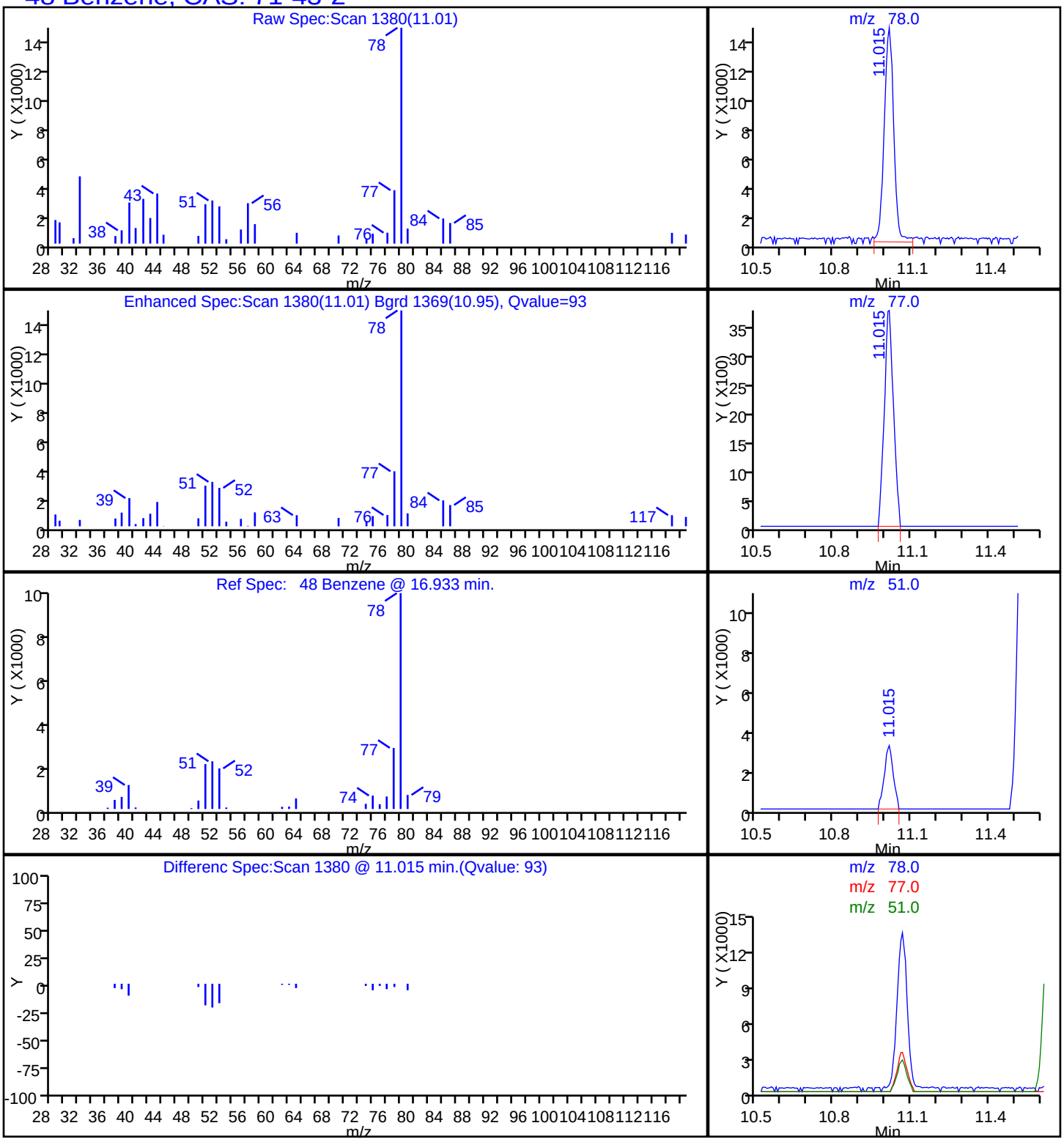
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



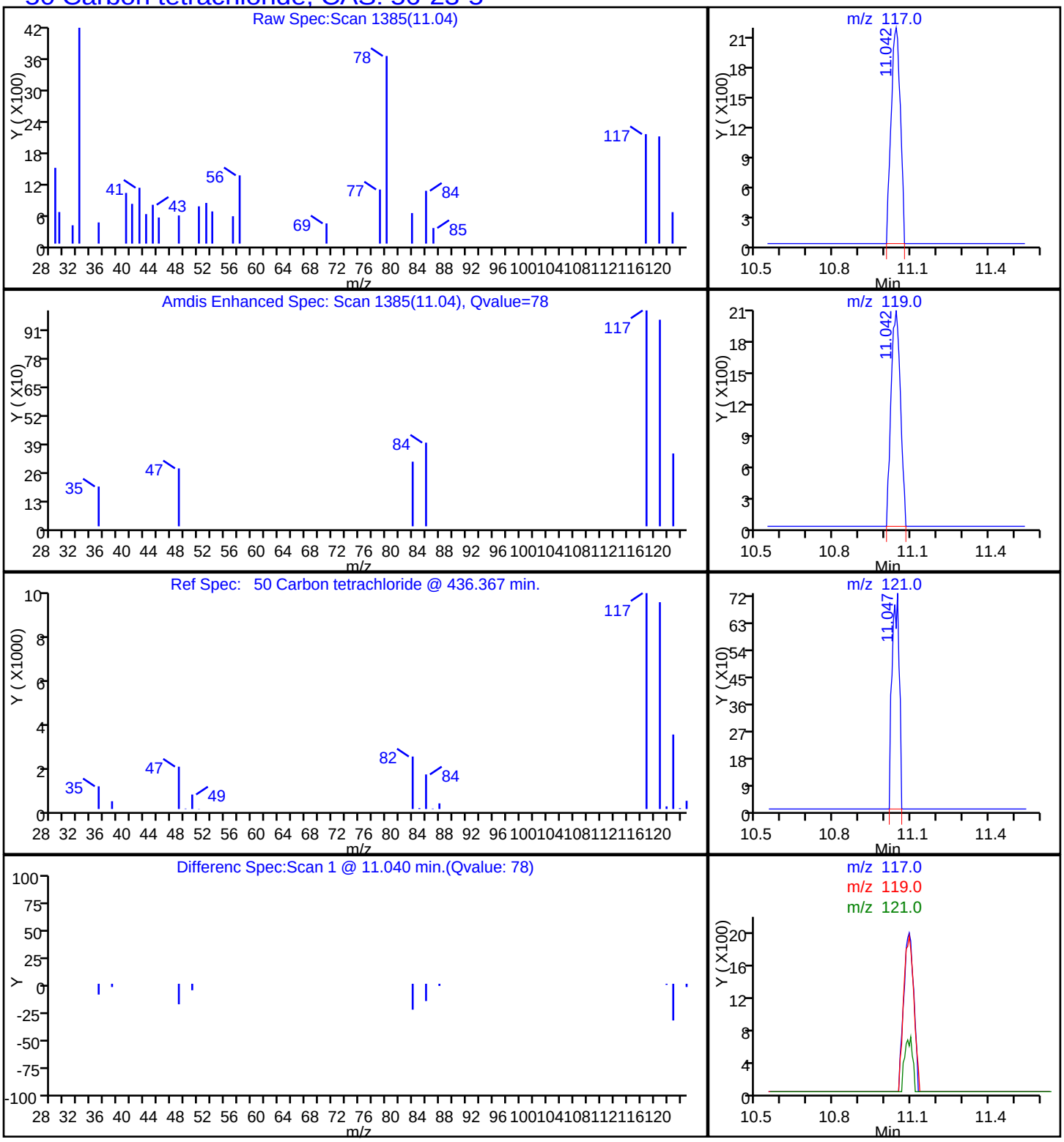
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

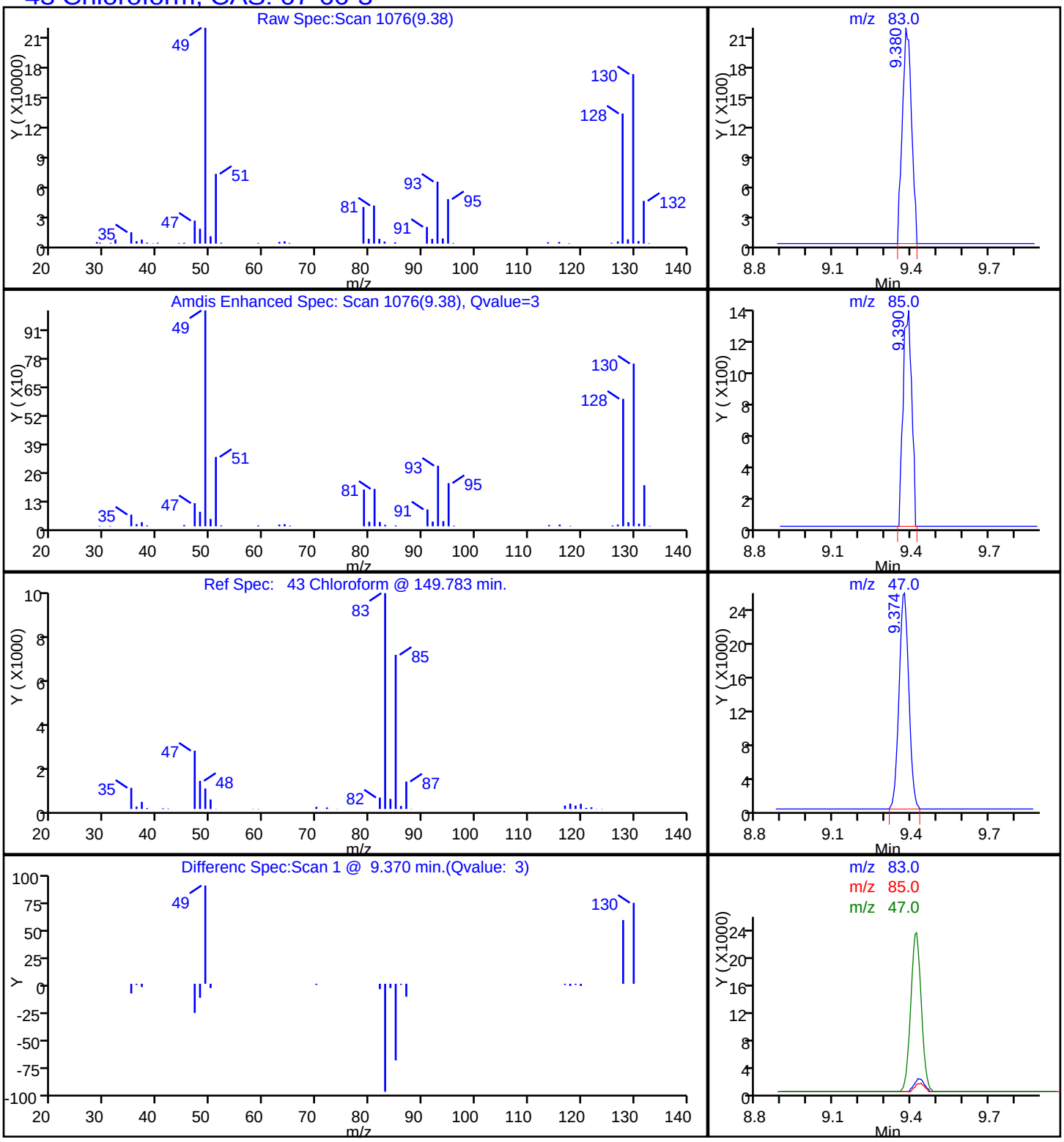


Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D		
Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



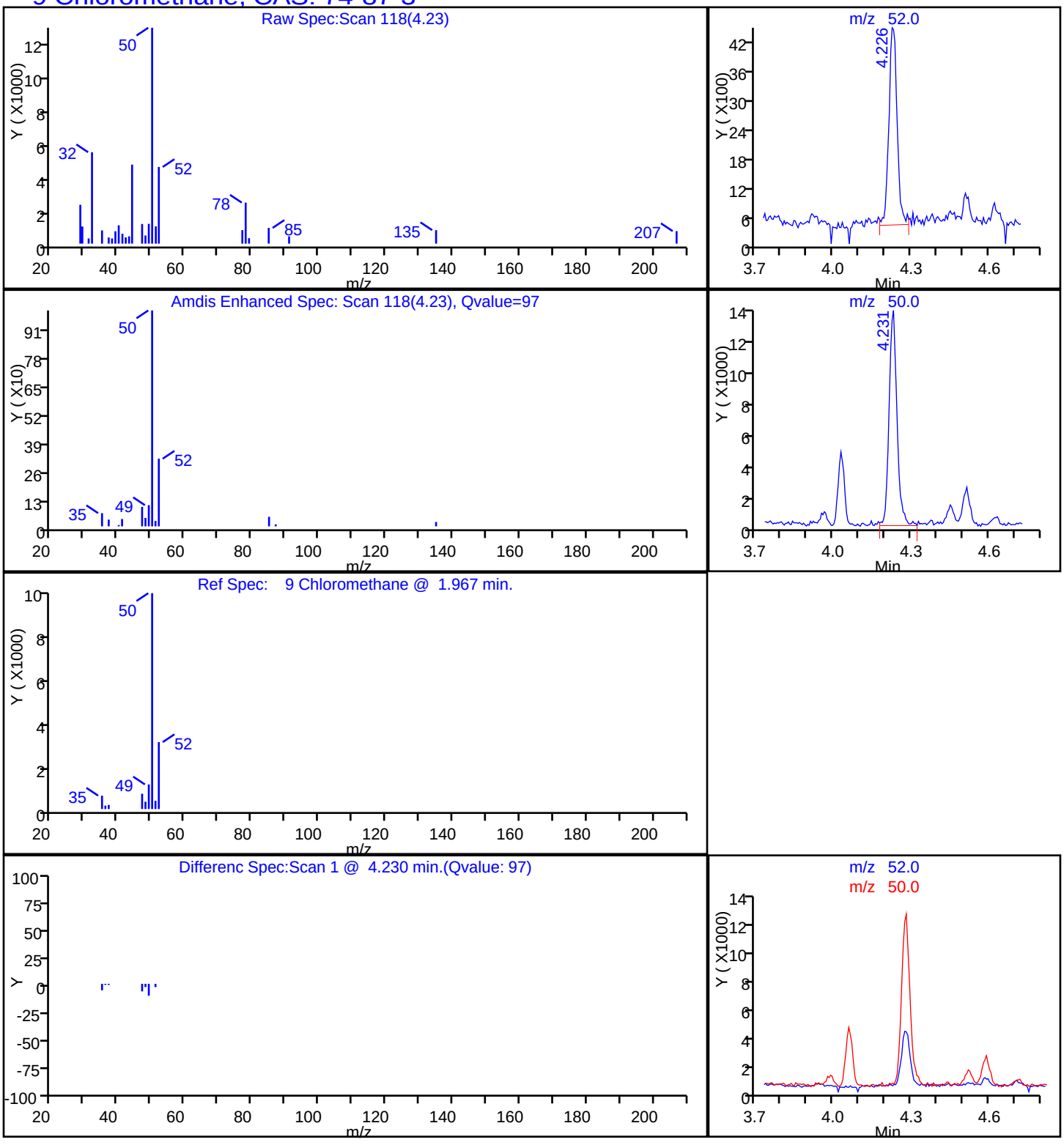
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



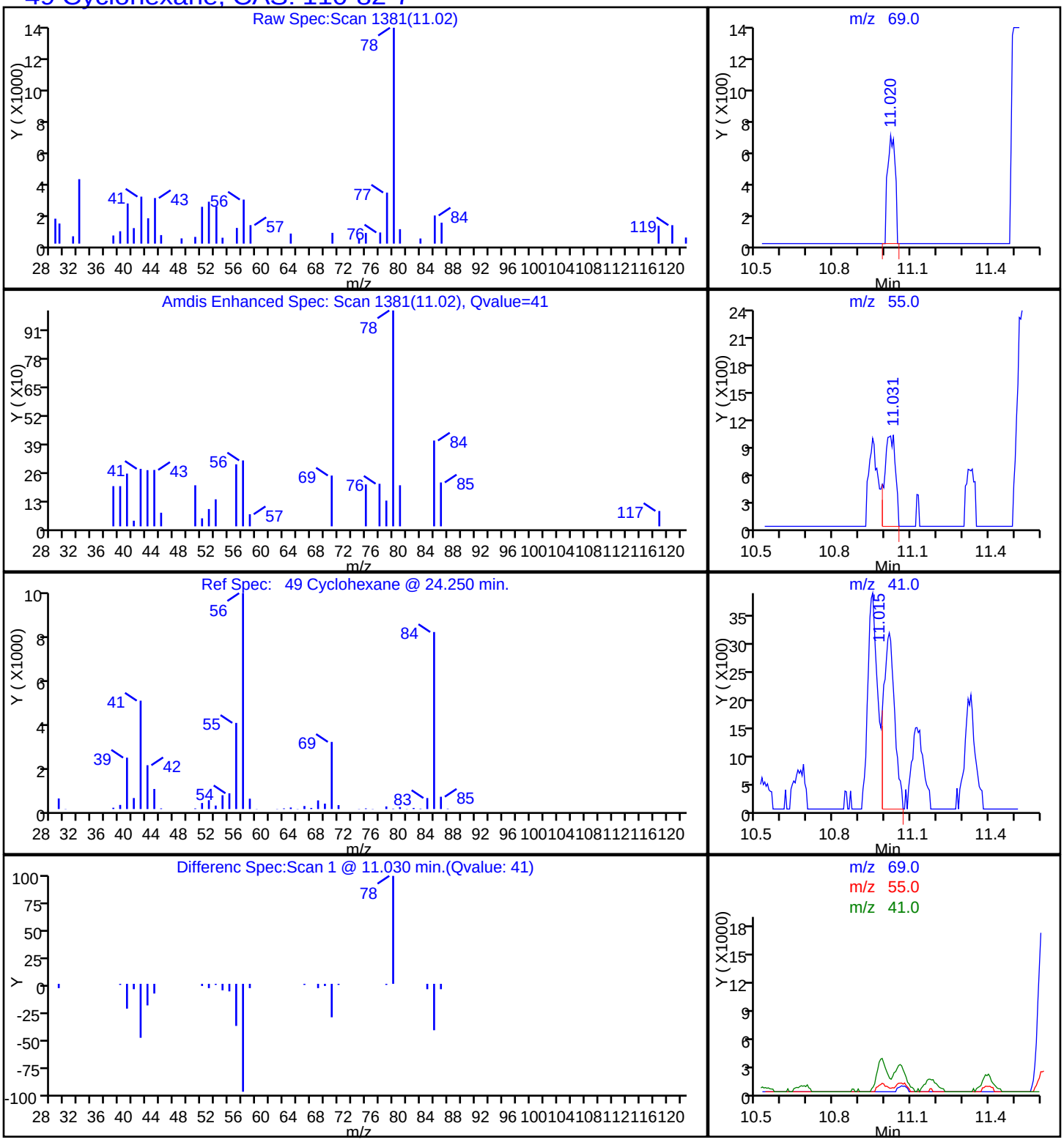
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



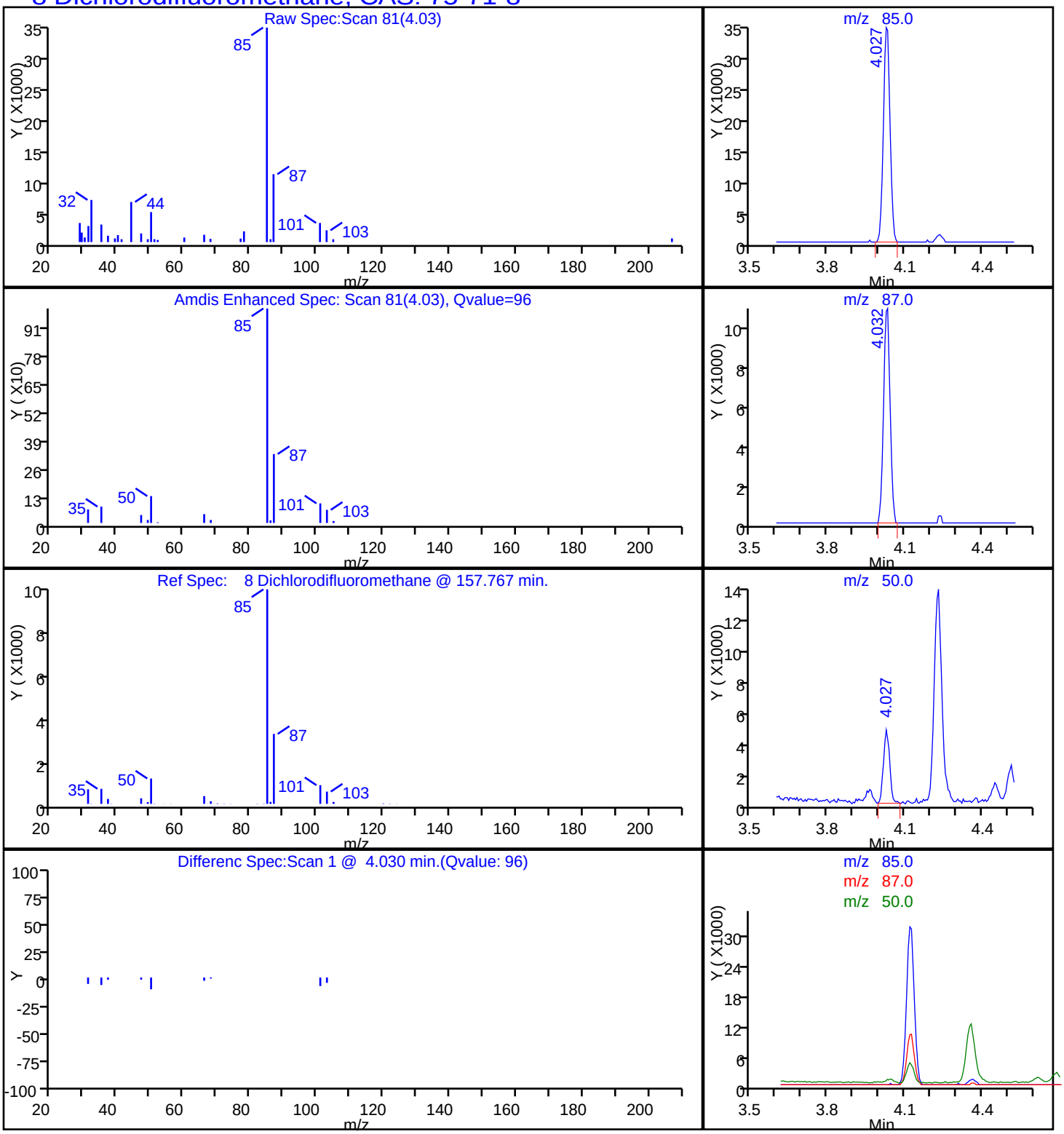
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



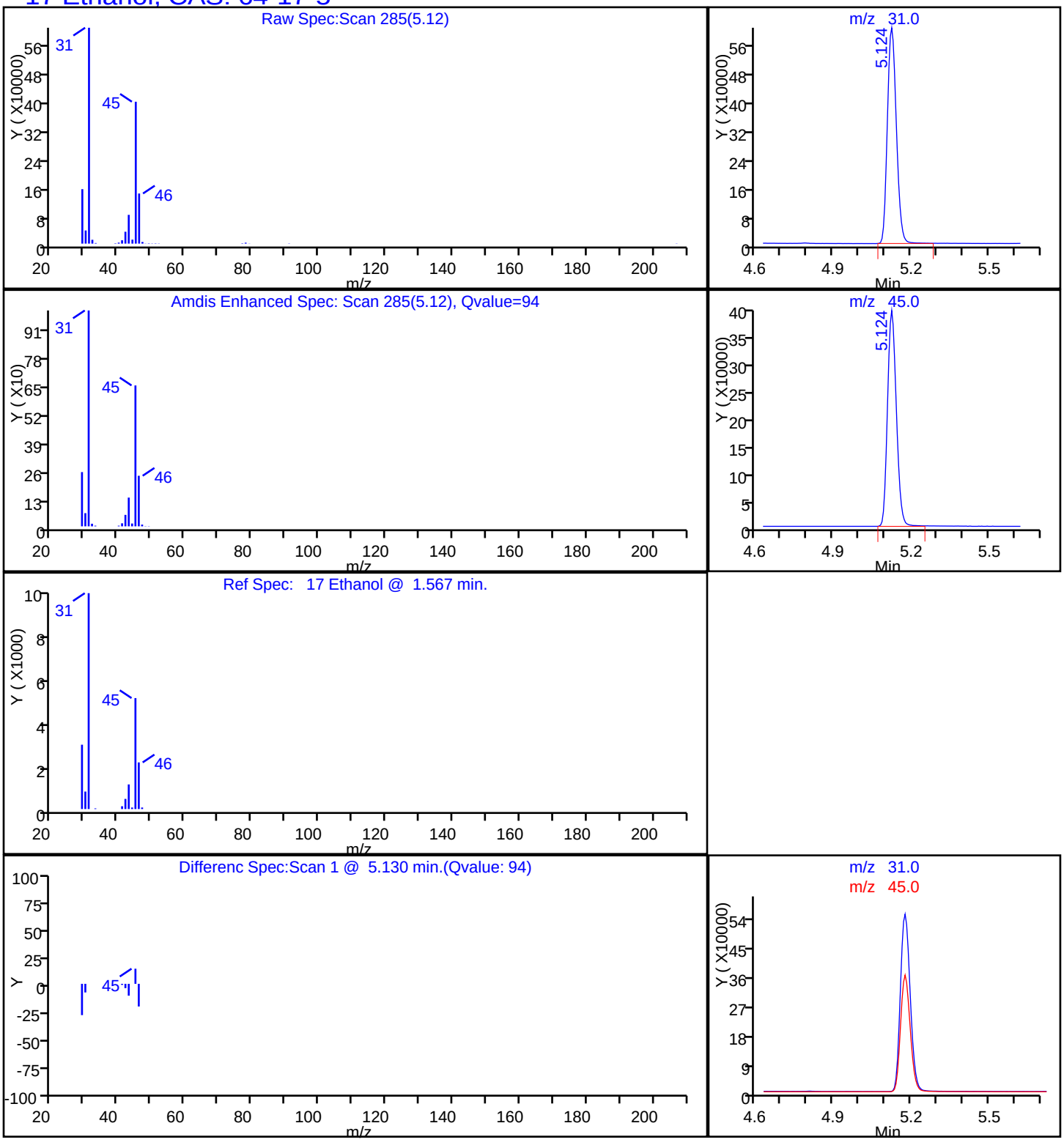
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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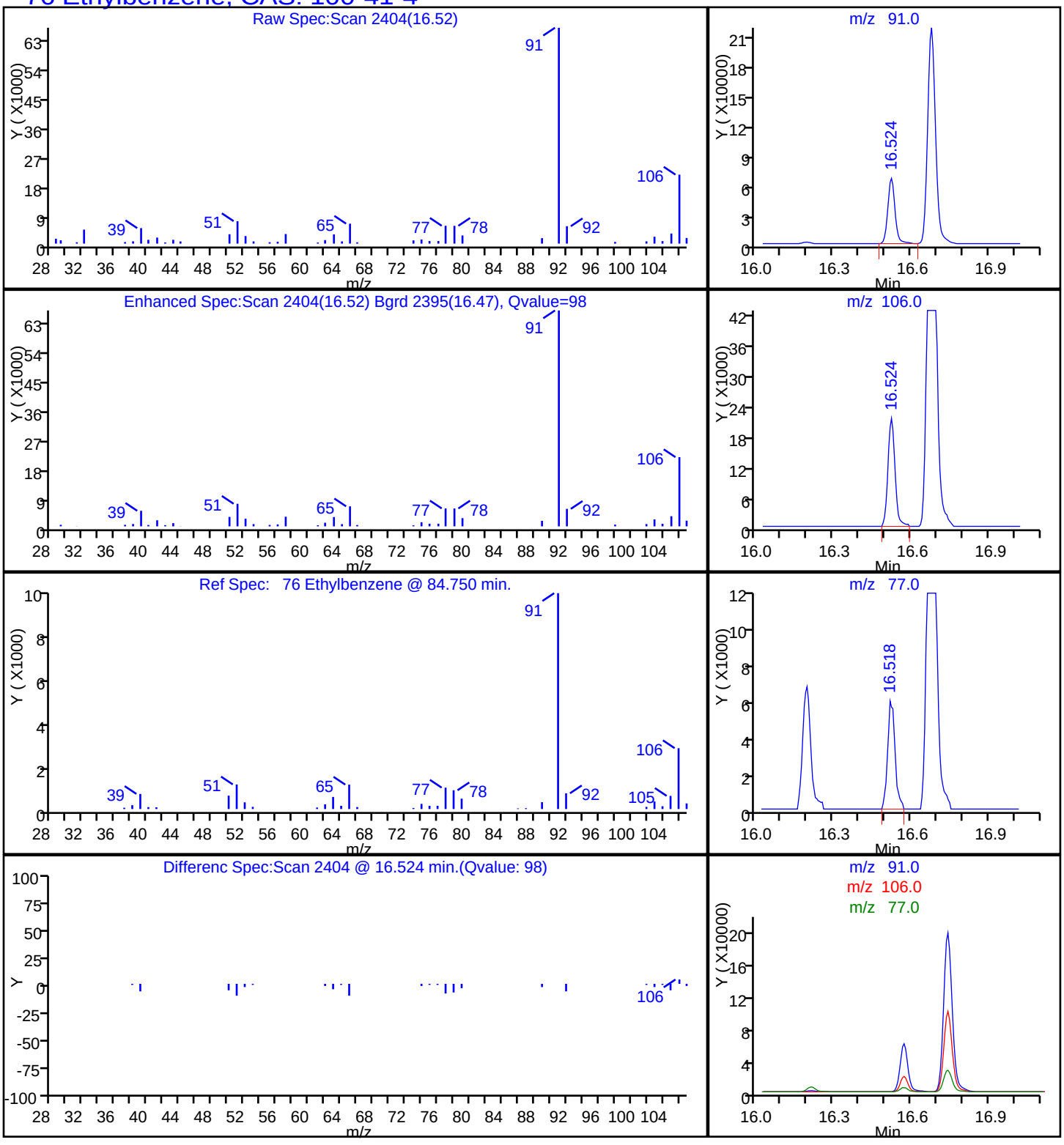
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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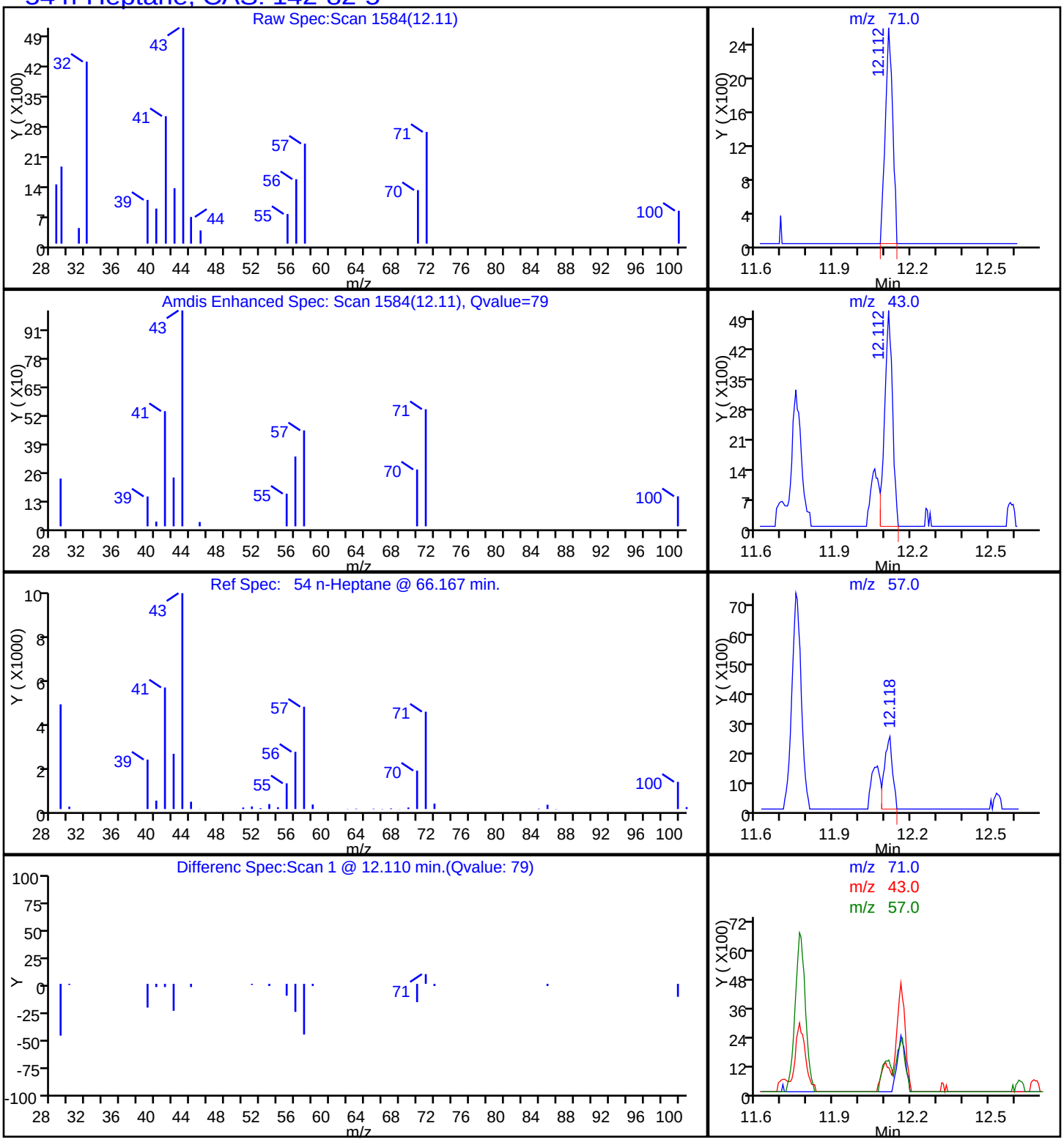
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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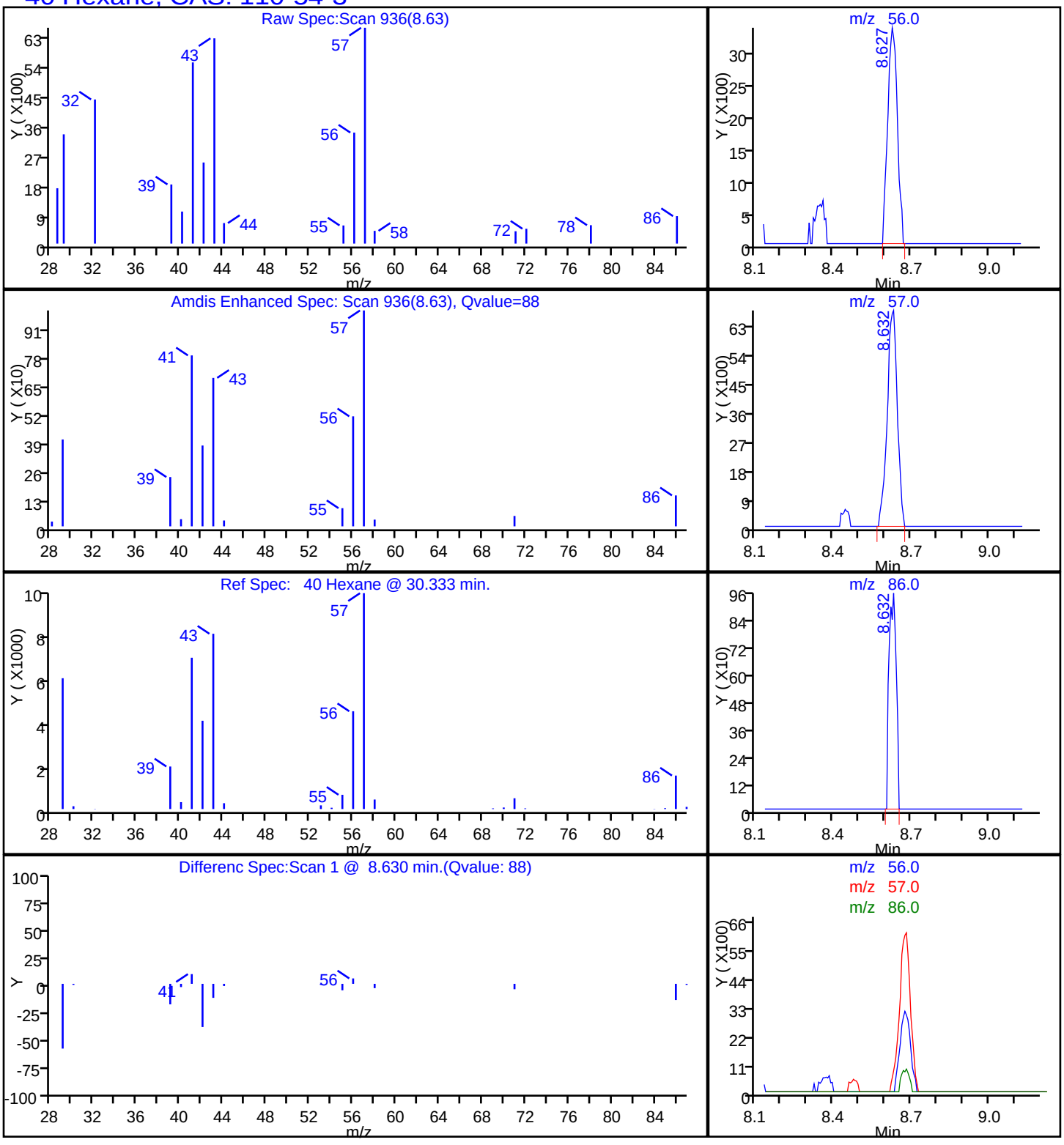
Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D				
Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
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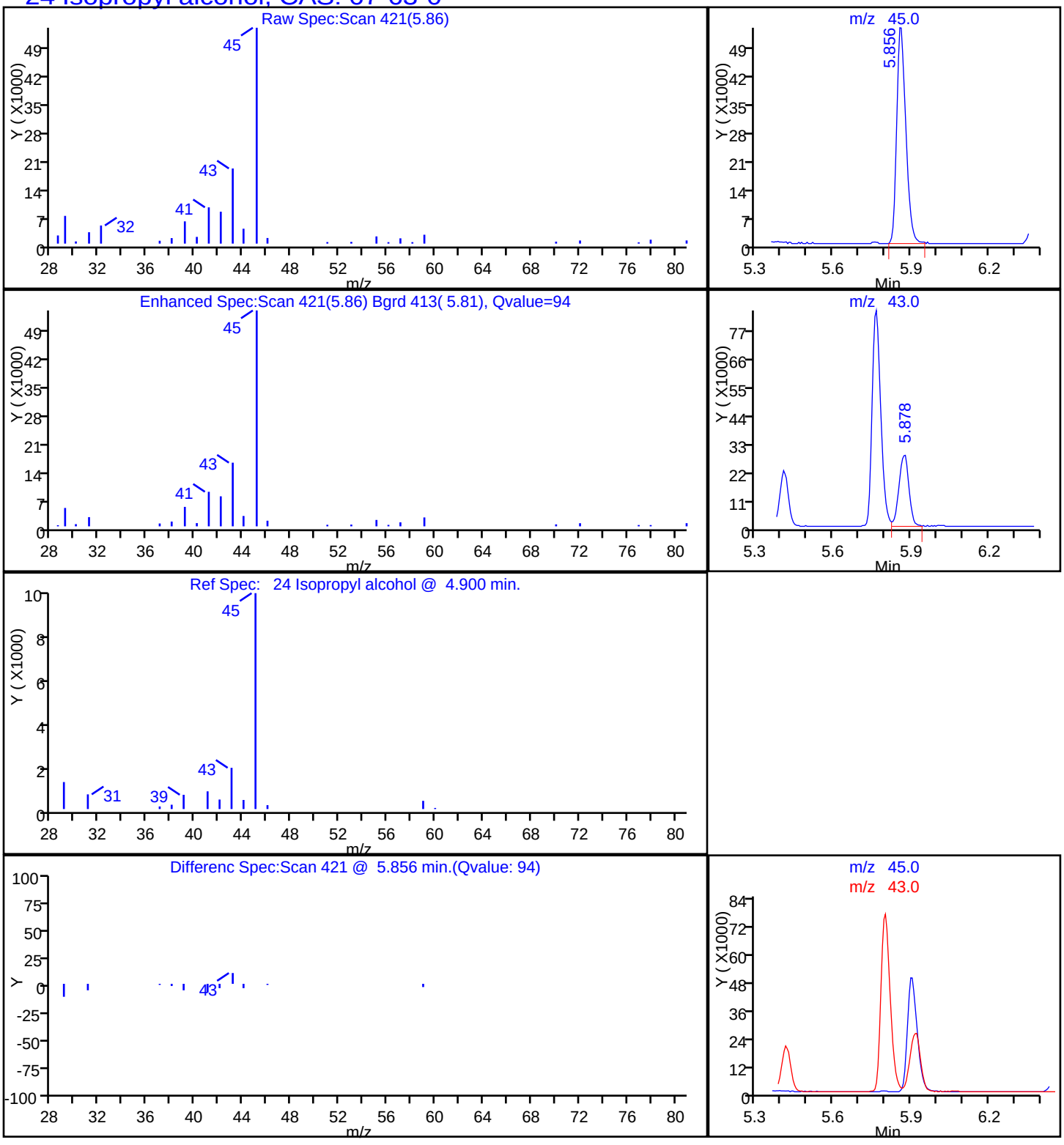
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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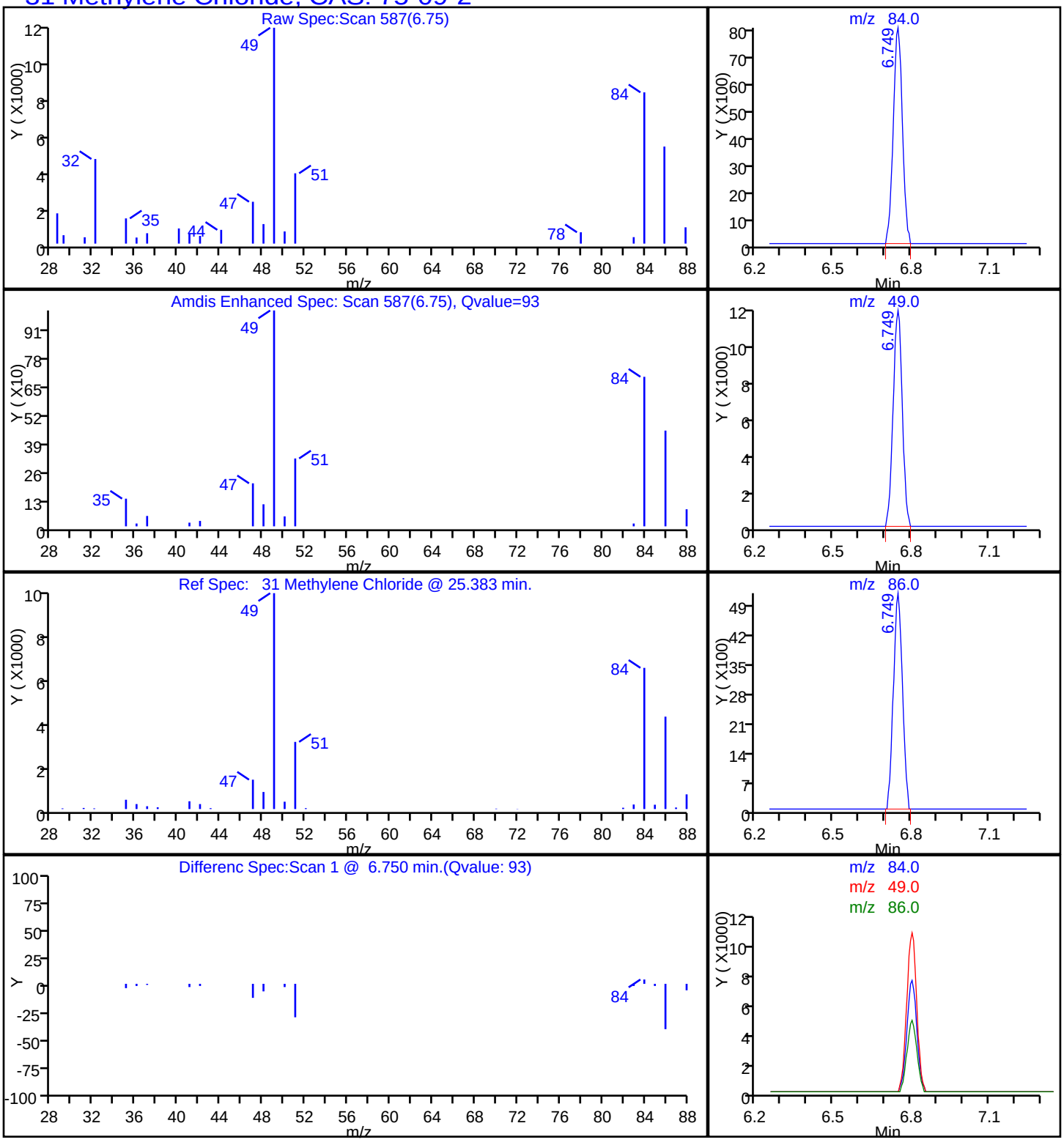
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

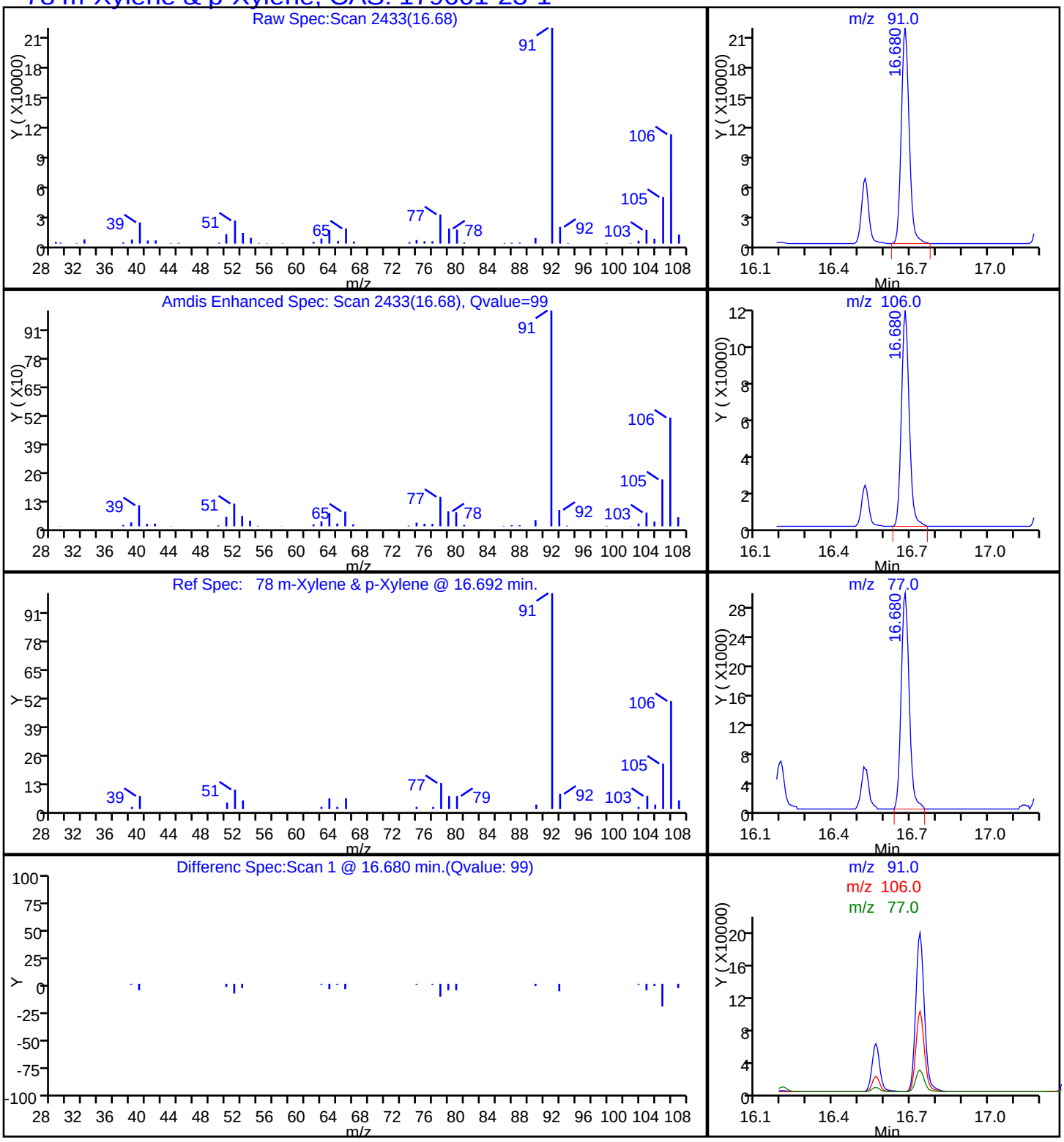


Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D		
Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



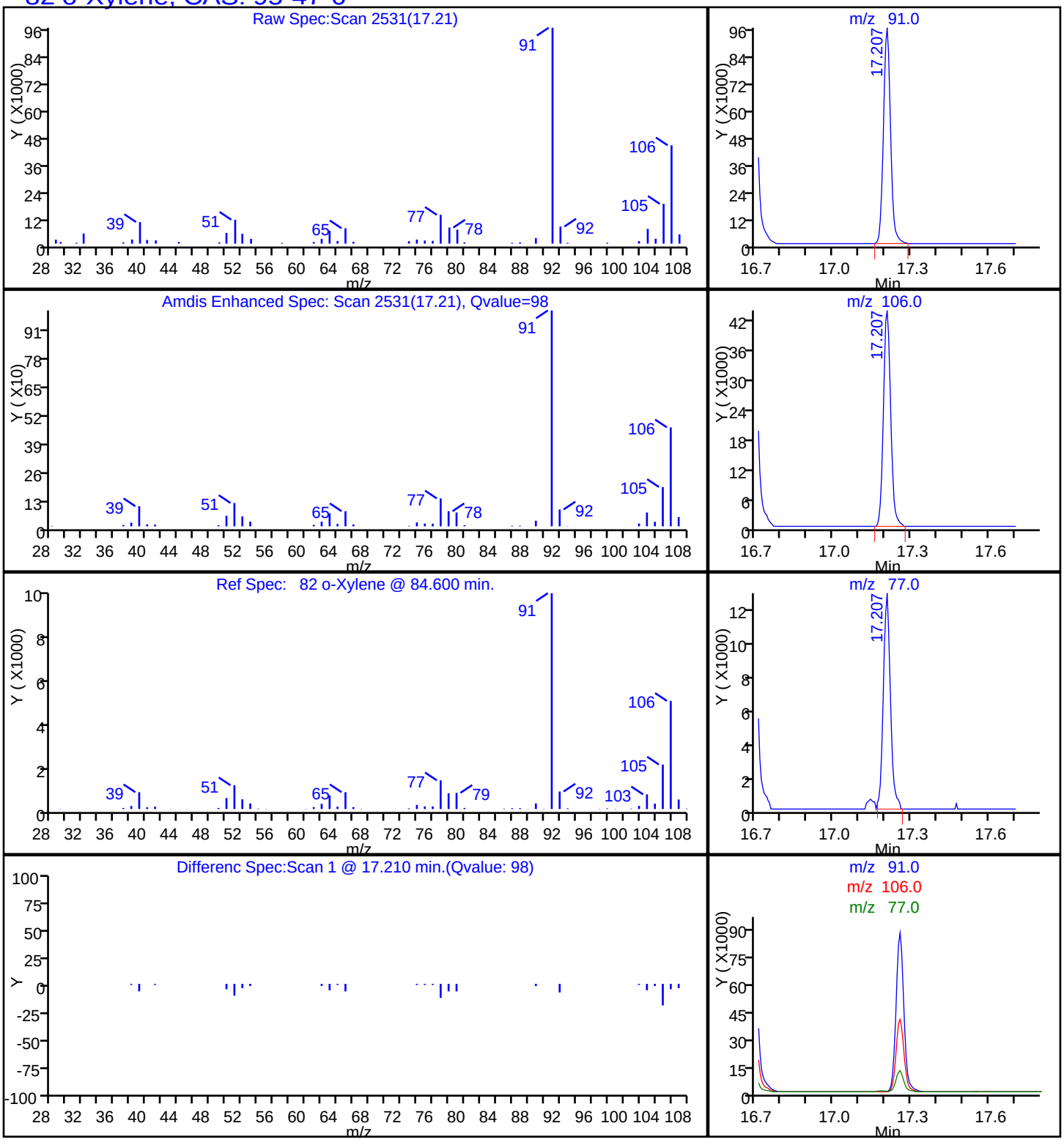
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



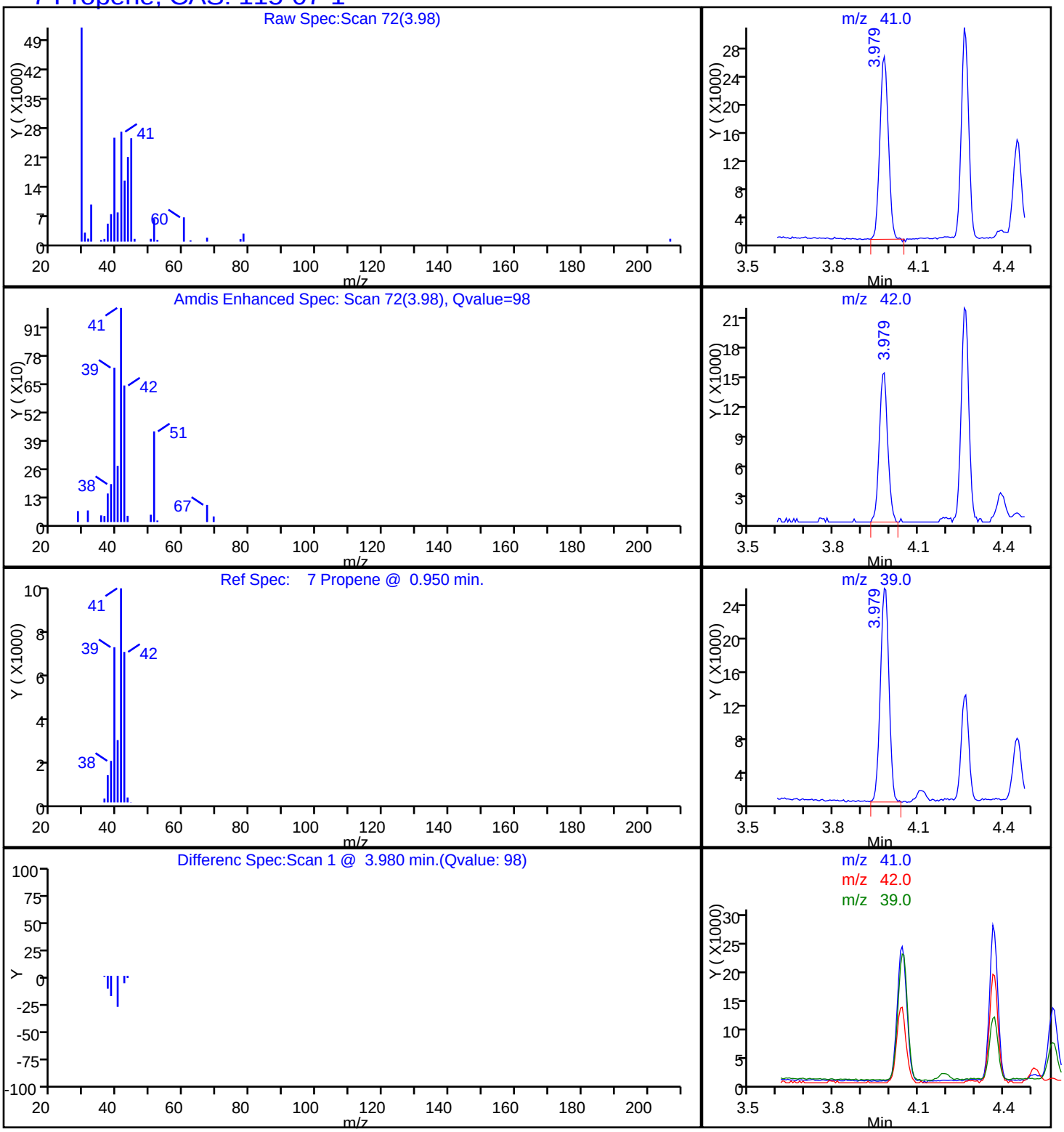
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



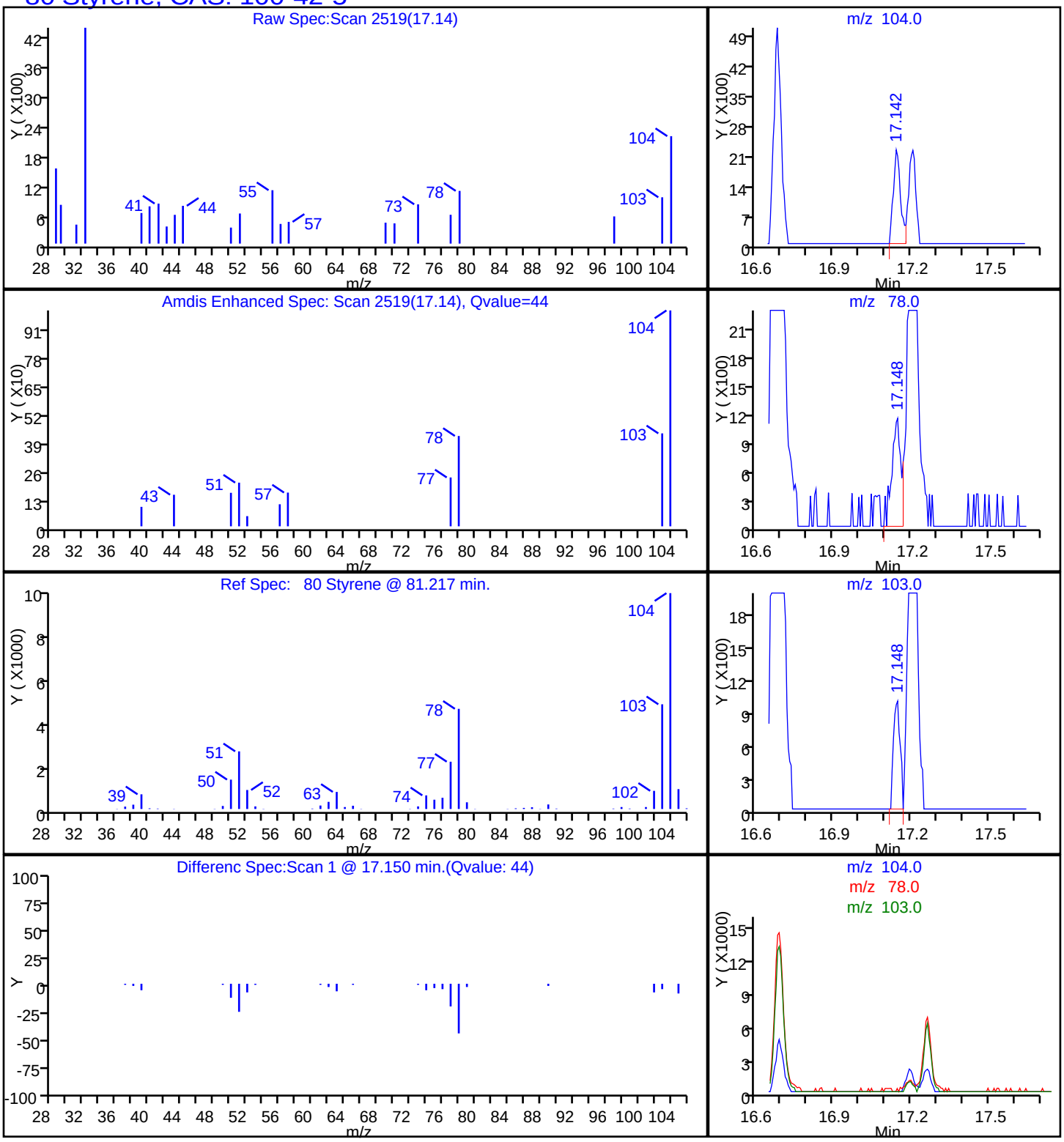
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



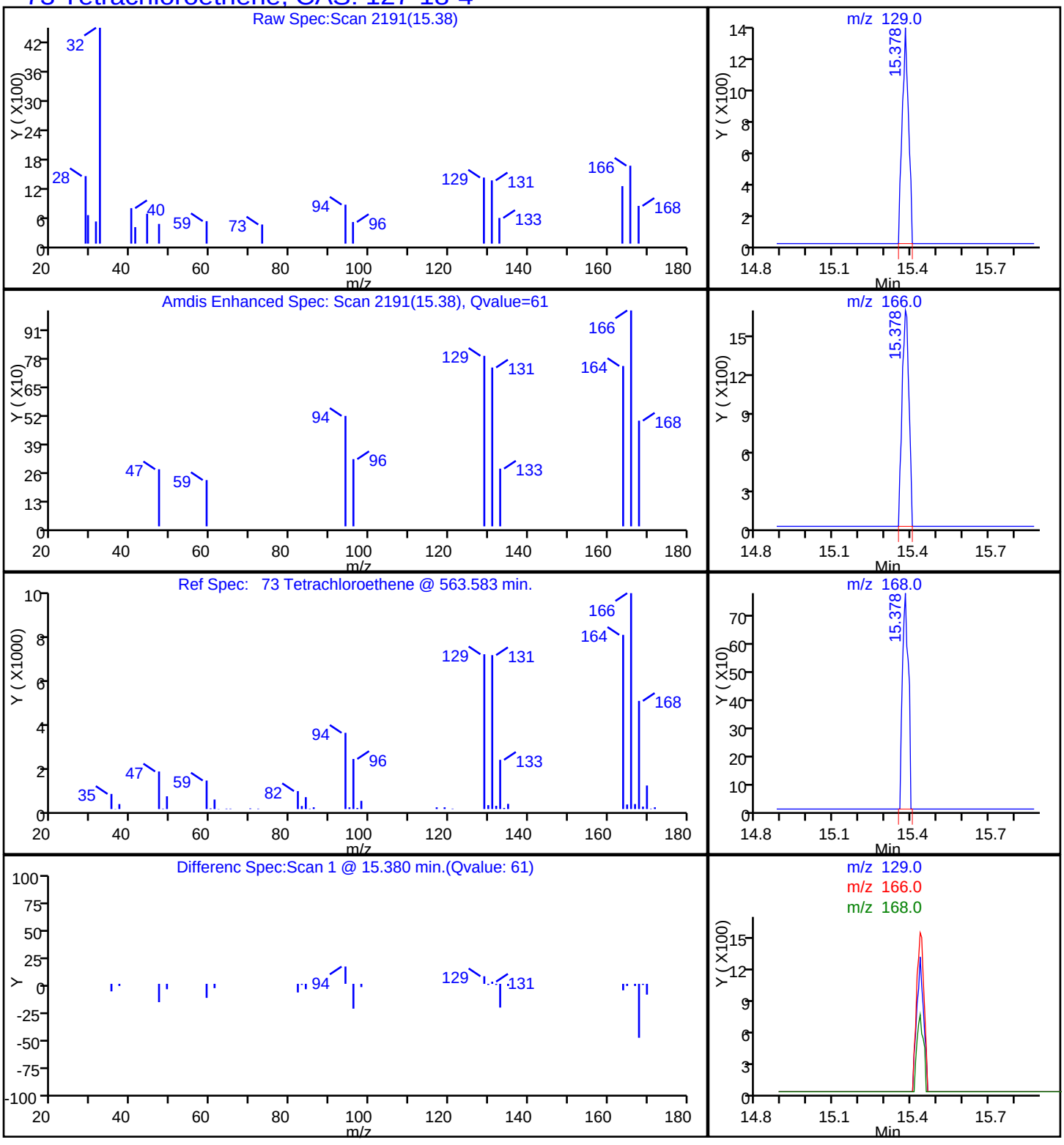
Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

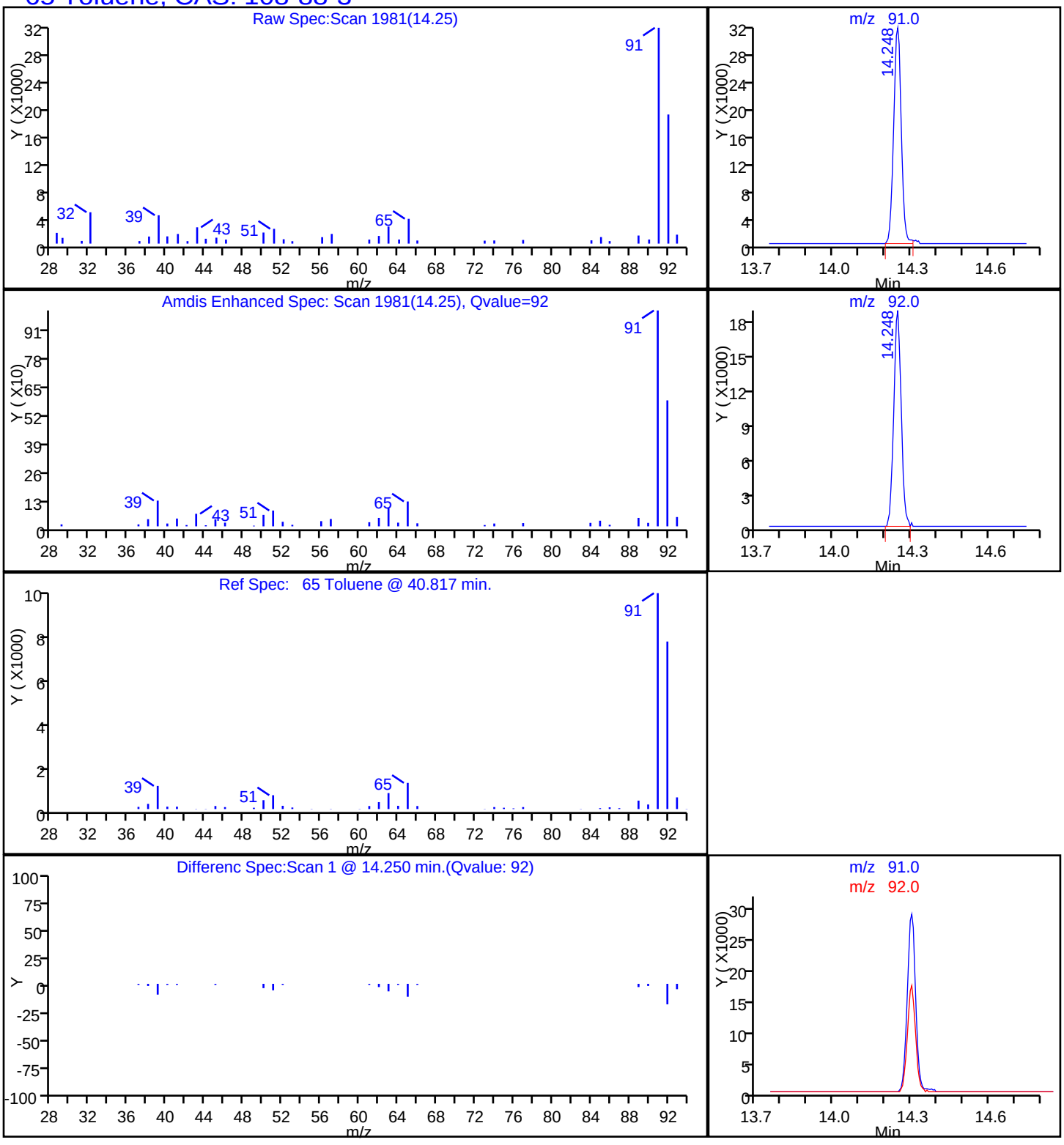


Report Date: 24-Mar-2014 08:40:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D		
Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



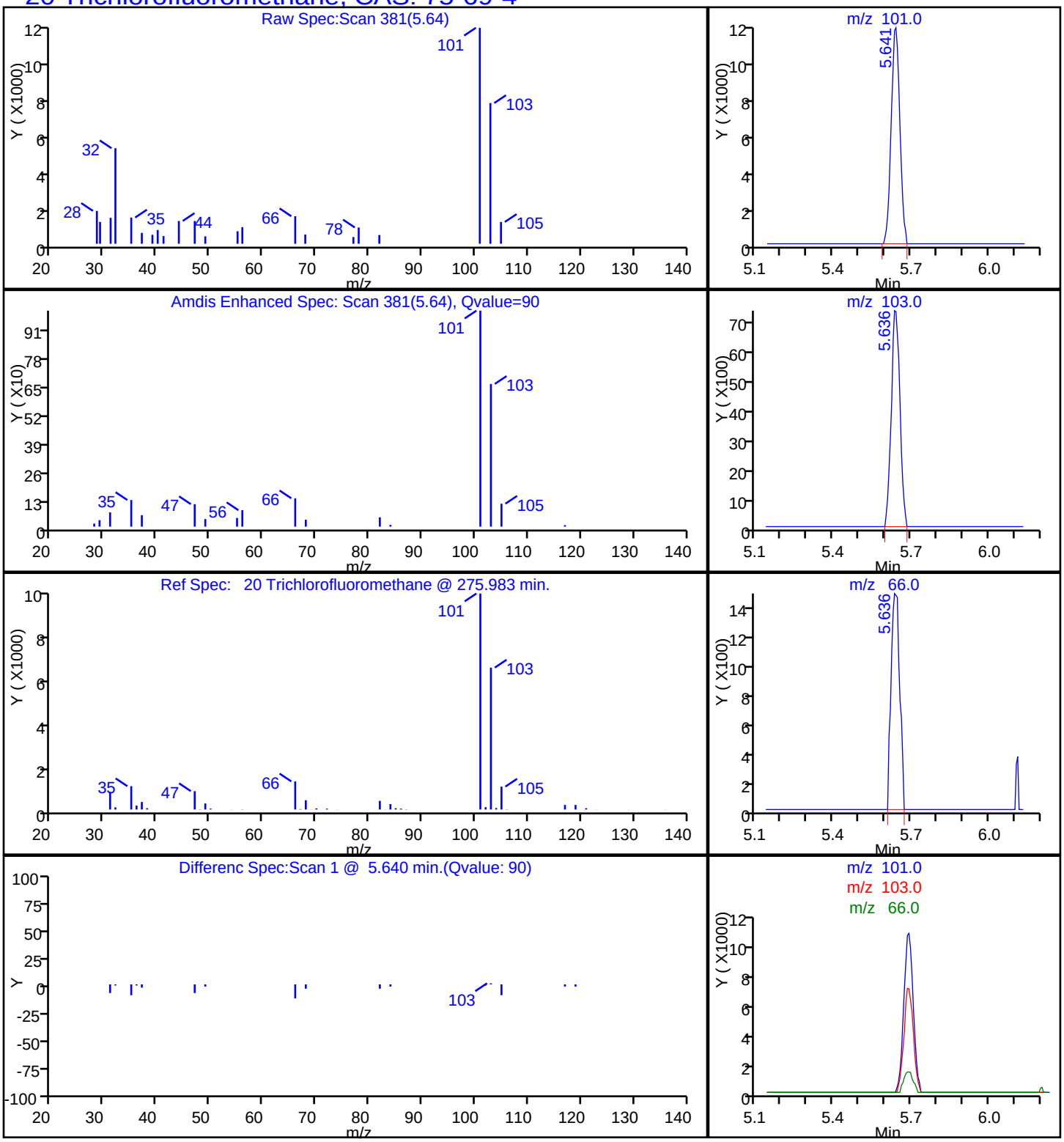
Report Date: 24-Mar-2014 08:40:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D

Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21
Client ID:	PCV-IA1-B20		
Operator ID:	7126	ALS Bottle#:	2 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

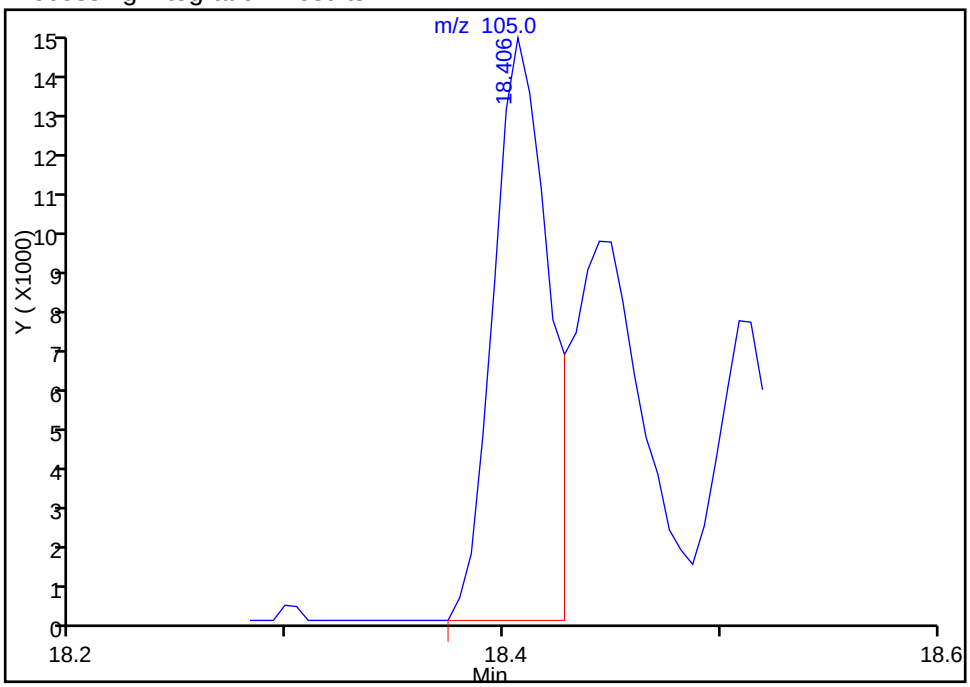
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P102.D				
Injection Date:	21-Mar-2014 16:26:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-21	Lab Sample ID:	140-1060-21		
Client ID:	PCV-IA1-B20				
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

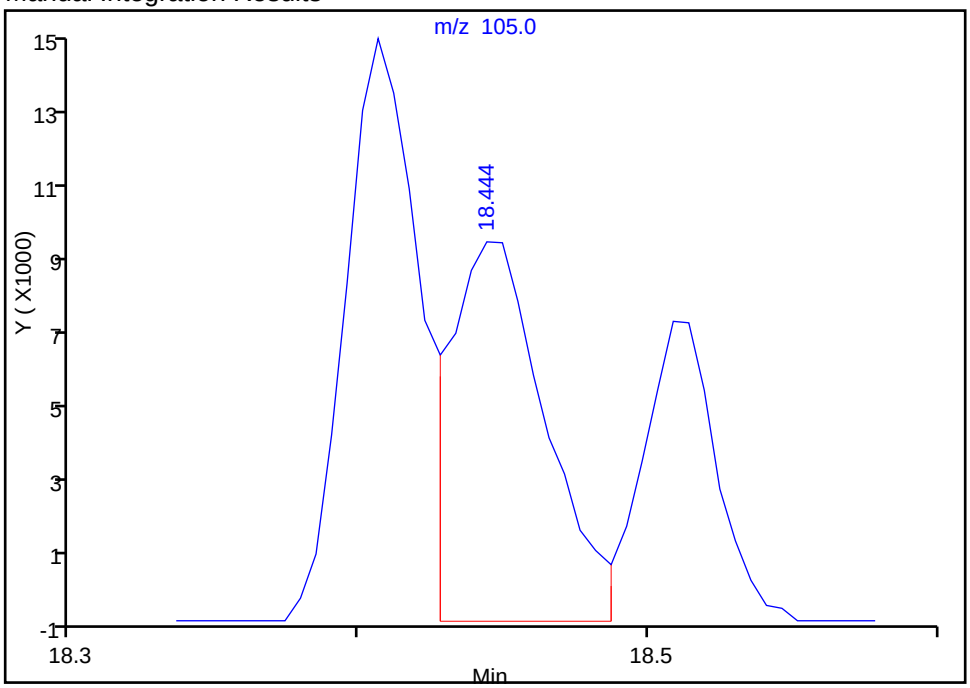
Processing Integration Results

RT: 18.41
Response: 26565
Amount: 0.086089



Manual Integration Results

RT: 18.44
Response: 22843
Amount: 0.074027



Reviewer: tajh, 24-Mar-2014 08:39:59
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.75		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.12	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.094	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.49	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.93		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.20		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.32	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.86		0.50	0.045
67-64-1	Acetone	58.08	4.8	J *	5.0	1.4
71-43-2	Benzene	78.11	0.34		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.093	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.078	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*280*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	1.9		0.20	0.068
142-82-5	Heptane	100.21	0.15	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.27	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.7		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.49	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	8.0		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	3.1		0.20	0.061
115-07-1	Propene	42.08	1.2	cn	0.50	0.077
100-42-5	Styrene	104.15	0.075	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.046	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.77		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	3.7		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.28	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.44	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.5	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.71		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.6	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.5		2.0	0.18
67-64-1	Acetone	58.08	11	J *	12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.46	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.27	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*530*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	8.0		0.87	0.30
142-82-5	Heptane	100.21	0.63	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.96	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	35		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	13		0.87	0.26
115-07-1	Propene	42.08	2.1	cn	0.86	0.13
100-42-5	Styrene	104.15	0.32	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.32	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 Lab Sample ID: 140-1060-22

Matrix: Air Lab File ID: JC21P103.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 17:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D
Lims ID: 140-1060-A-22 Lab Sample ID: 140-1060-22
Client ID: PCV-IA2-B20
Sample Type: Client
Inject. Date: 21-Mar-2014 17:20:30 ALS Bottle#: 3 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-22
Misc. Info.: J032114,TO15,,140-0000540-008
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 08:41:13 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:41:13

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.371	9.379	-0.008	95	366569	4.00	
*	2 1,4-Difluorobenzene	114	11.528	11.530	-0.002	94	1745864	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.192	16.194	-0.002	87	1407894	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.812	17.814	-0.002	91	931882	3.74	
	7 Propene	41	3.981	3.972	0.009	99	55436	0.4932	
	8 Dichlorodifluoromethane	85	4.029	4.031	-0.002	96	61725	0.1700	
	9 Chloromethane	52	4.228	4.231	-0.003	100	8646	0.2096	
	14 Butadiene	54	4.514	4.516	-0.002	26	4718	0.0500	
	17 Ethanol	31	5.132	5.113	0.019	92	3321916	112.9	E
	19 2-Methylbutane	43	5.407	5.409	-0.002	92	57936	0.3721	
	20 Trichlorofluoromethane	101	5.643	5.640	0.003	88	25533	0.0800	
	23 Acetone	58	5.762	5.769	-0.007	92	100291	1.92	
	24 Isopropyl alcohol	45	5.864	5.844	0.020	95	259188	1.88	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.579	6.576	0.003	60	5944	0.0269	
	31 Methylene Chloride	84	6.751	6.753	-0.002	88	19416	0.1980	
	35 2-Methylpentane	43	7.623	7.620	0.003	88	22744	0.0804	
	39 2-Butanone (MEK)	72	8.591	8.583	0.009	95	6826	0.1967	
	40 Hexane	56	8.623	8.631	-0.008	88	10786	0.1094	
	43 Chloroform	83	9.387	9.389	-0.002	34	7965	0.0373	
	48 Benzene	78	11.012	11.014	-0.002	95	40268	0.1344	
	49 Cyclohexane	69	11.023	11.025	-0.002	33	1835	0.0310	
	50 Carbon tetrachloride	117	11.039	11.046	-0.007	86	6381	0.0258	
	53 Isooctane	57	11.754	11.756	-0.002	75	19272	0.0377	
	54 n-Heptane	71	12.115	12.117	-0.002	77	6563	0.0620	
	62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.365	0.003	97	63243	0.3456	
	65 Toluene	91	14.245	14.247	-0.002	92	80343	0.3076	
	73 Tetrachloroethene	129	15.375	15.377	-0.002	67	2261	0.0186	
	76 Ethylbenzene	91	16.521	16.523	-0.002	98	213650	0.7406	
	78 m-Xylene & p-Xylene	91	16.677	16.684	-0.007	99	744172	3.20	
	80 Styrene	104	17.145	17.141	0.004	43	4823	0.0302	
	82 o-Xylene	91	17.204	17.206	-0.002	99	290494	1.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
88 4-Ethyltoluene	105	18.441	18.441	-0.002	94	39932	0.1273	M
89 1,3,5-Trimethylbenzene	120	18.511	18.513	-0.002	84	12516	0.0794	
93 1,2,4-Trimethylbenzene	105	18.936	18.938	-0.002	98	81509	0.2981	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

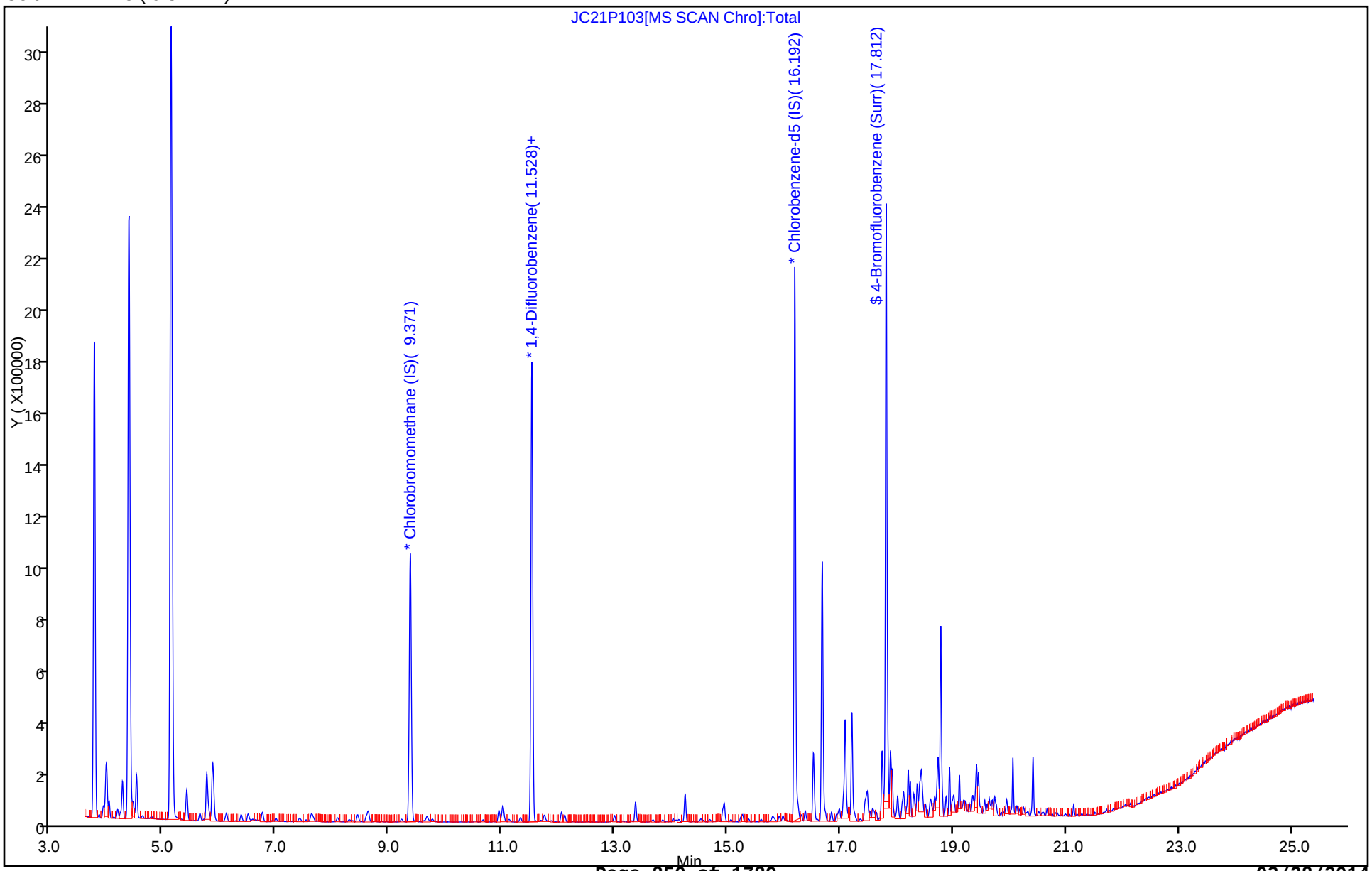
Report Date: 24-Mar-2014 08:41:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22	Worklist Smp#:	8
Client ID:	PCV-IA2-B20				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



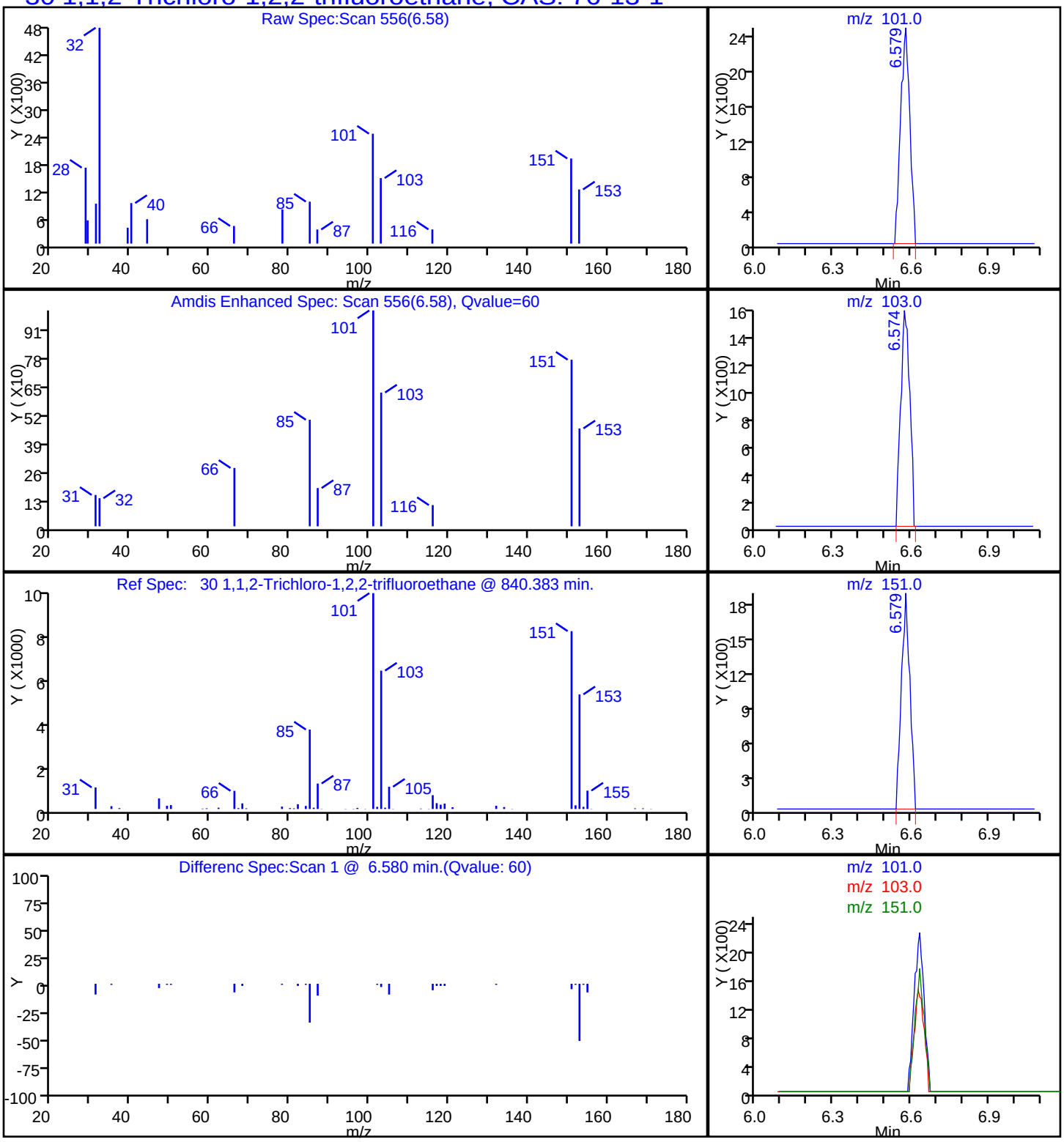
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

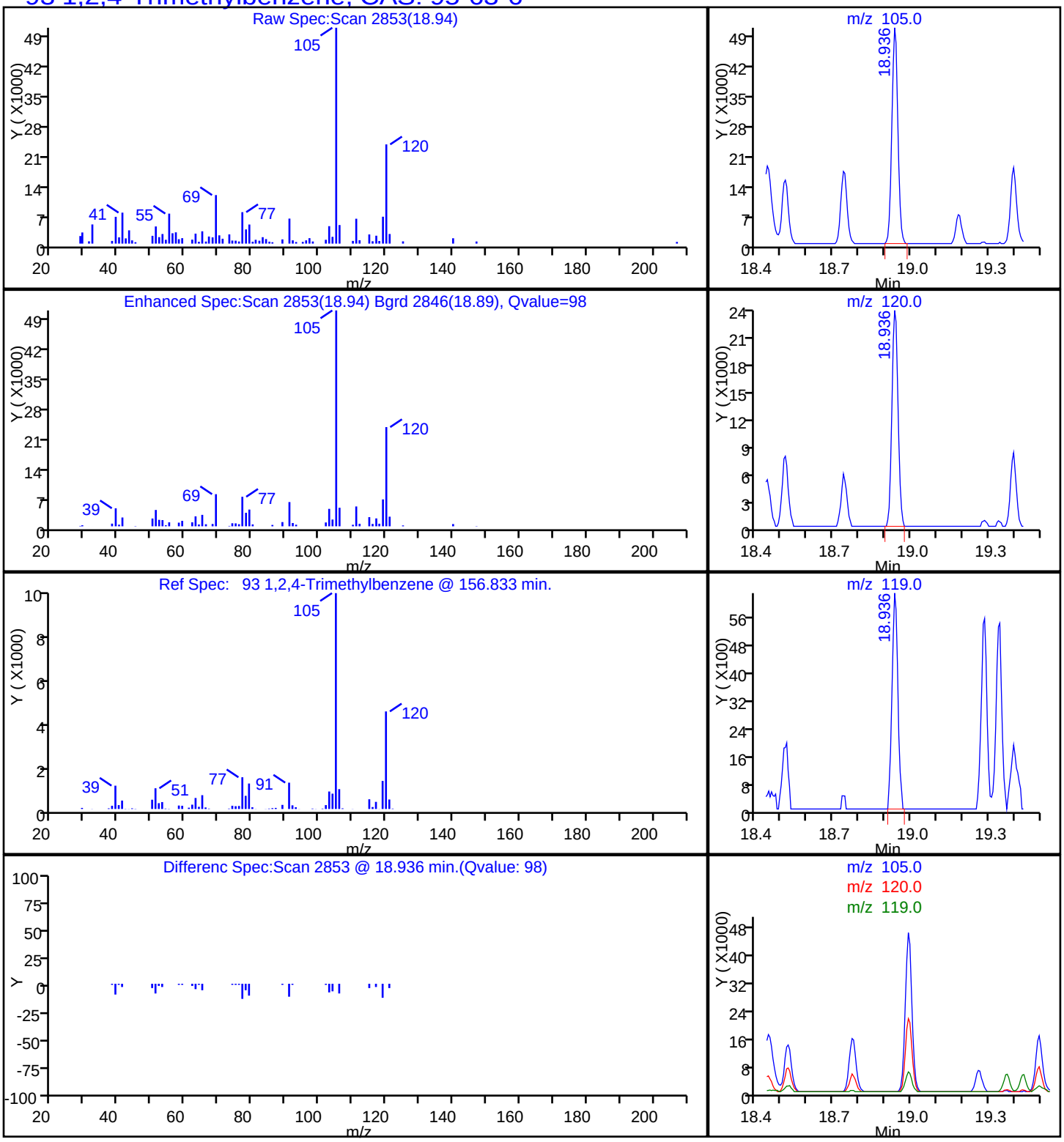


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D		
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

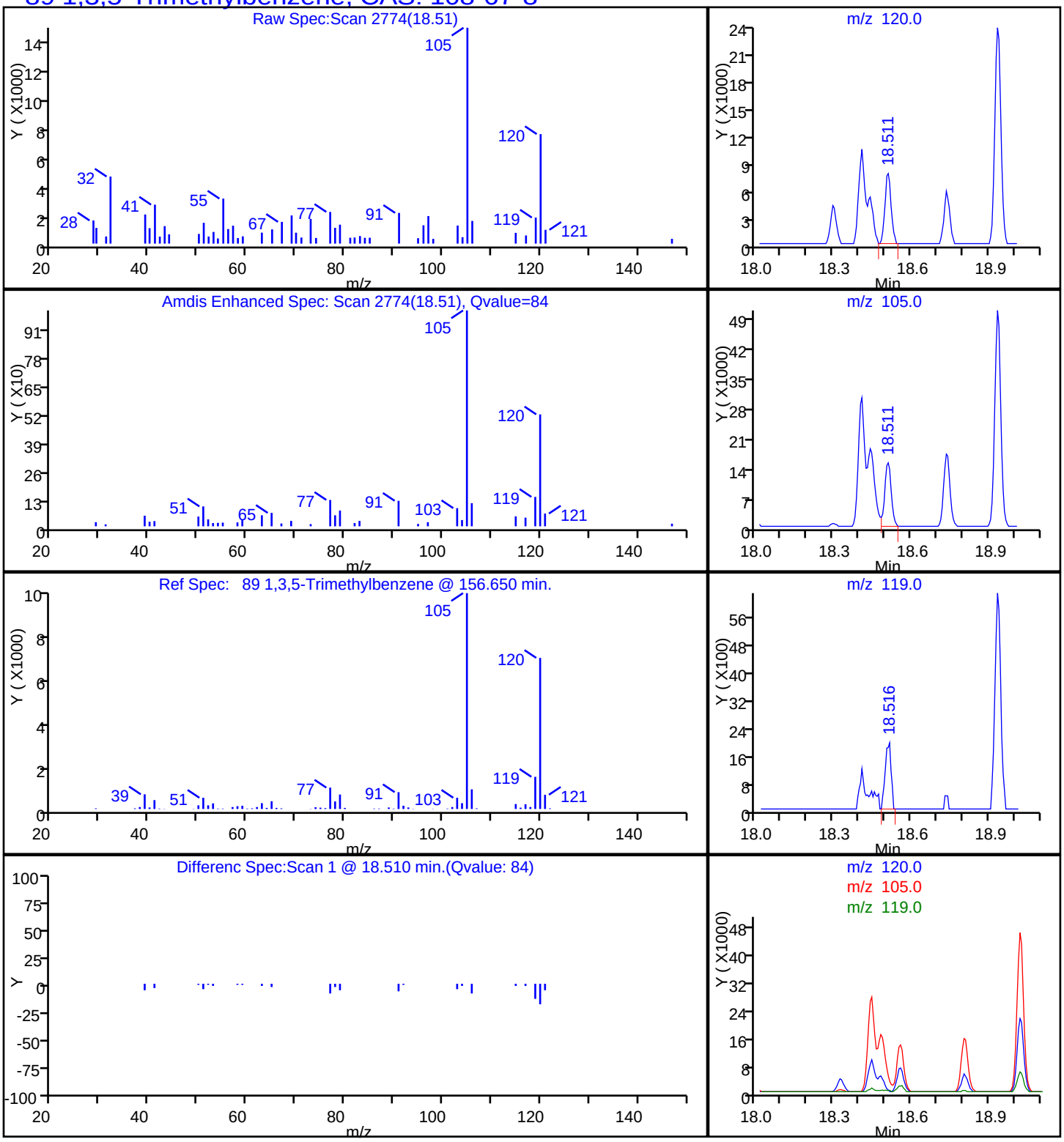


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D		
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date: 21-Mar-2014 17:20:30 Instrument ID: MJ

Lims ID: 140-1060-A-22 Lab Sample ID: 140-1060-22

Client ID: PCV-IA2-B20

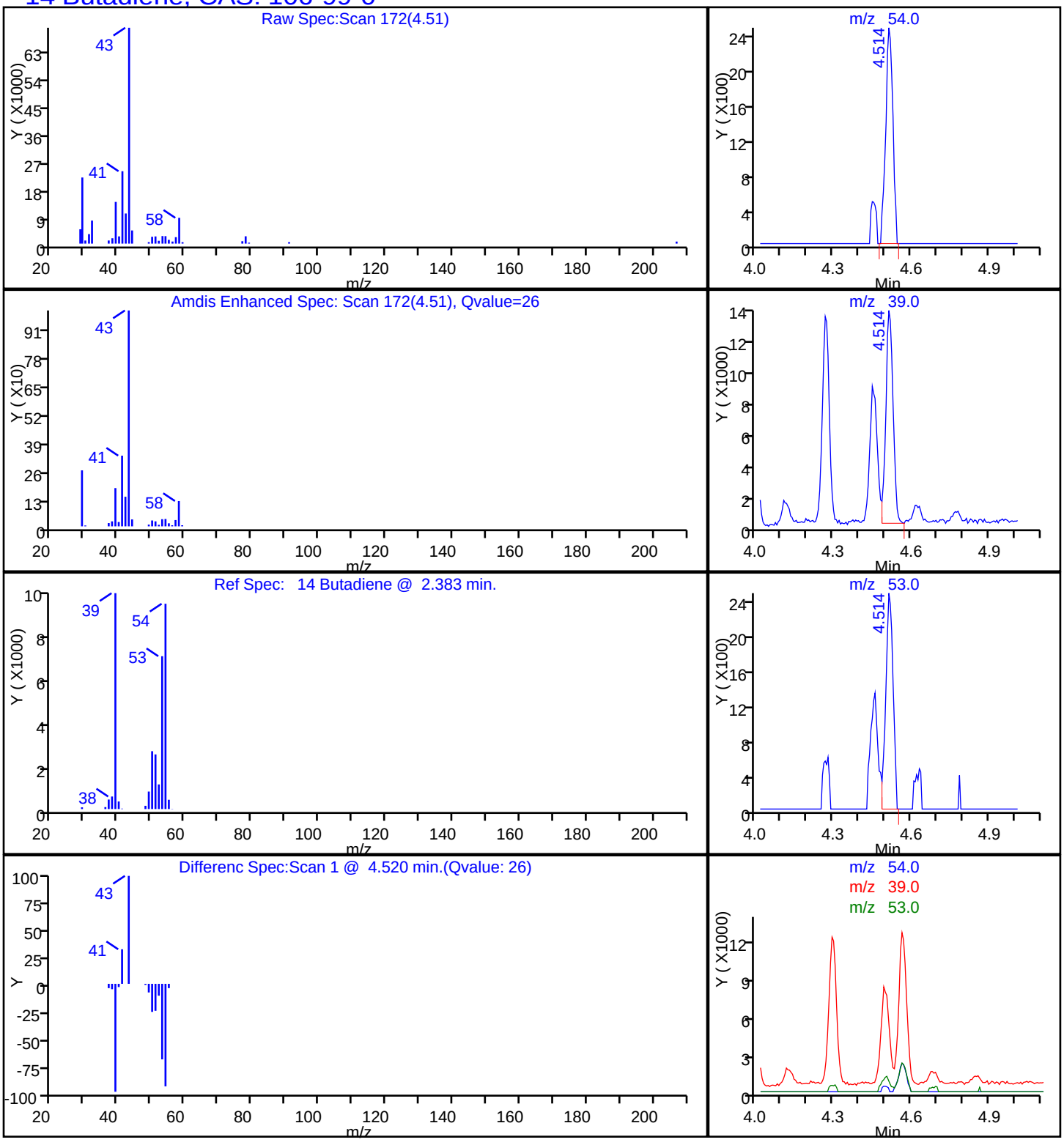
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

14 Butadiene, CAS: 106-99-0



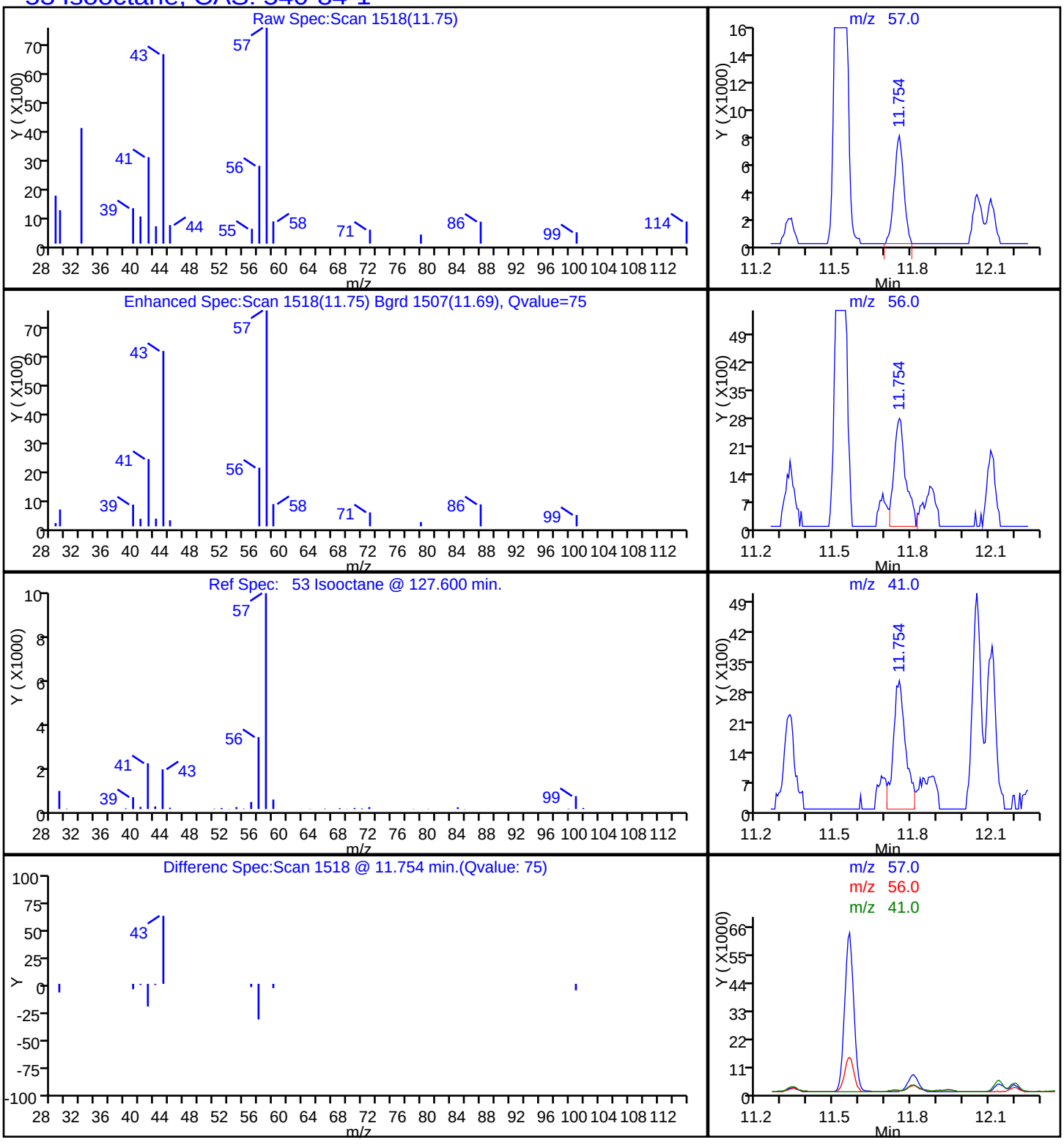
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

53 Isooctane, CAS: 540-84-1



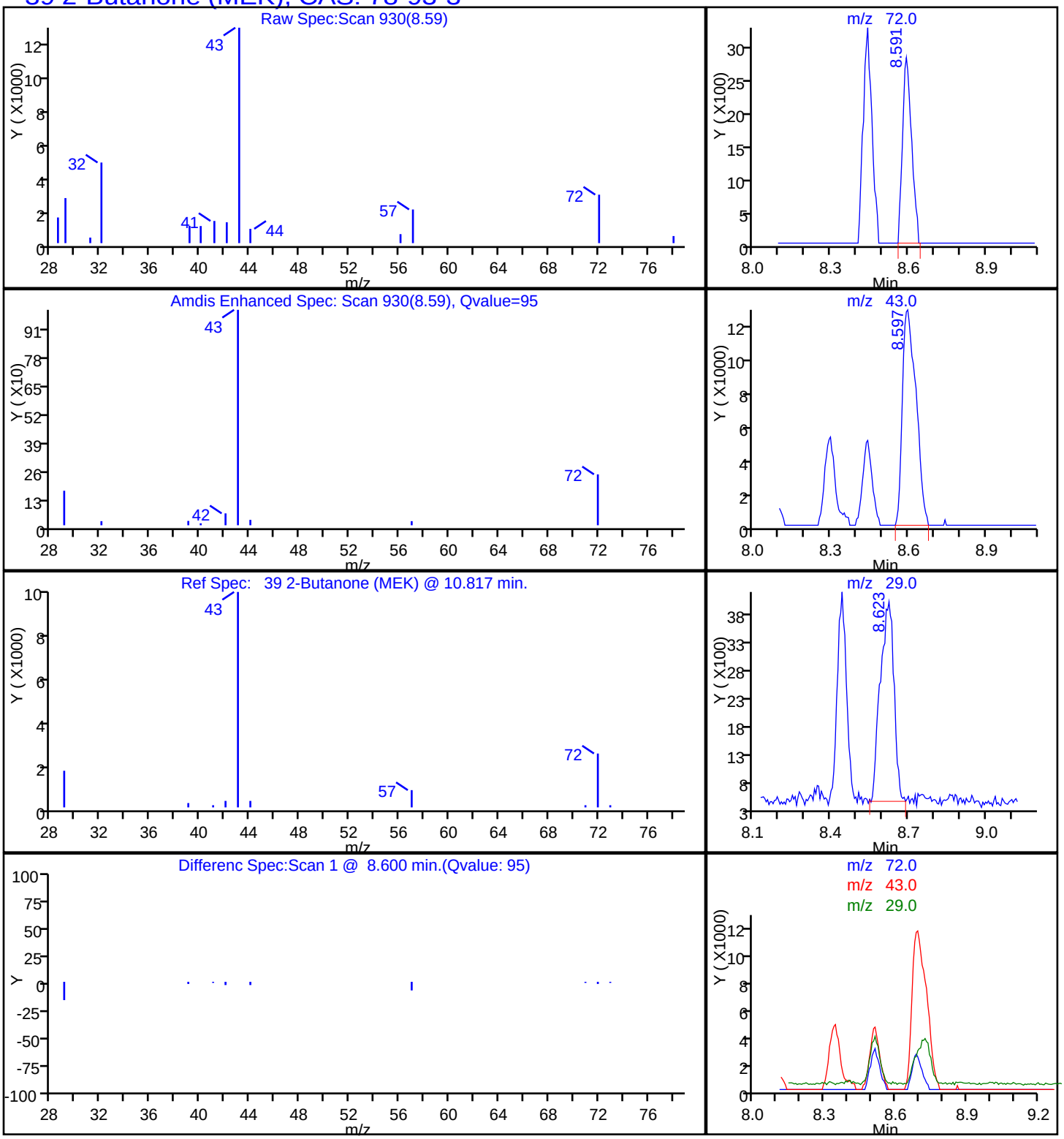
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date: 21-Mar-2014 17:20:30 Instrument ID: MJ

Lims ID: 140-1060-A-22 Lab Sample ID: 140-1060-22

Client ID: PCV-IA2-B20

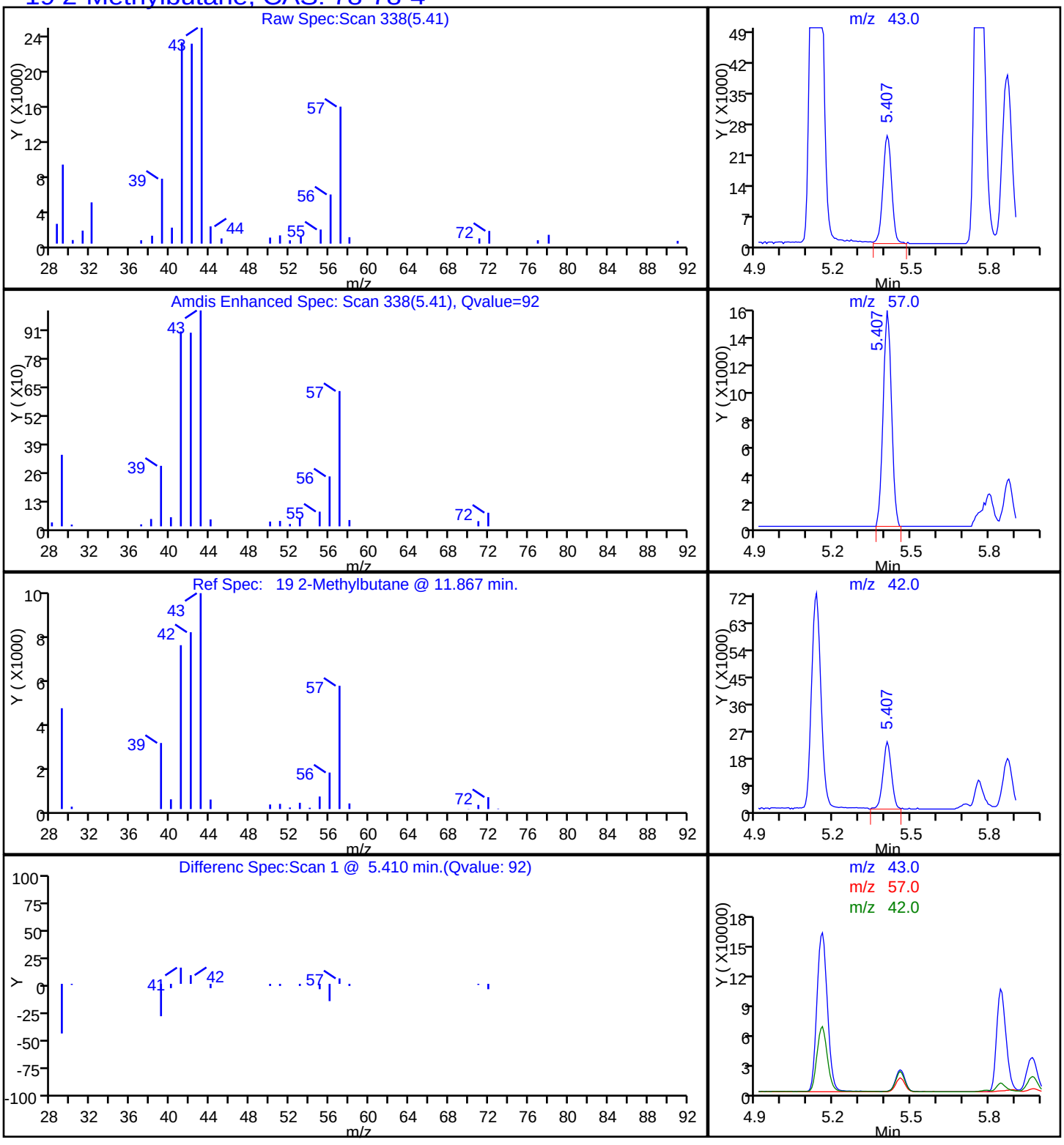
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



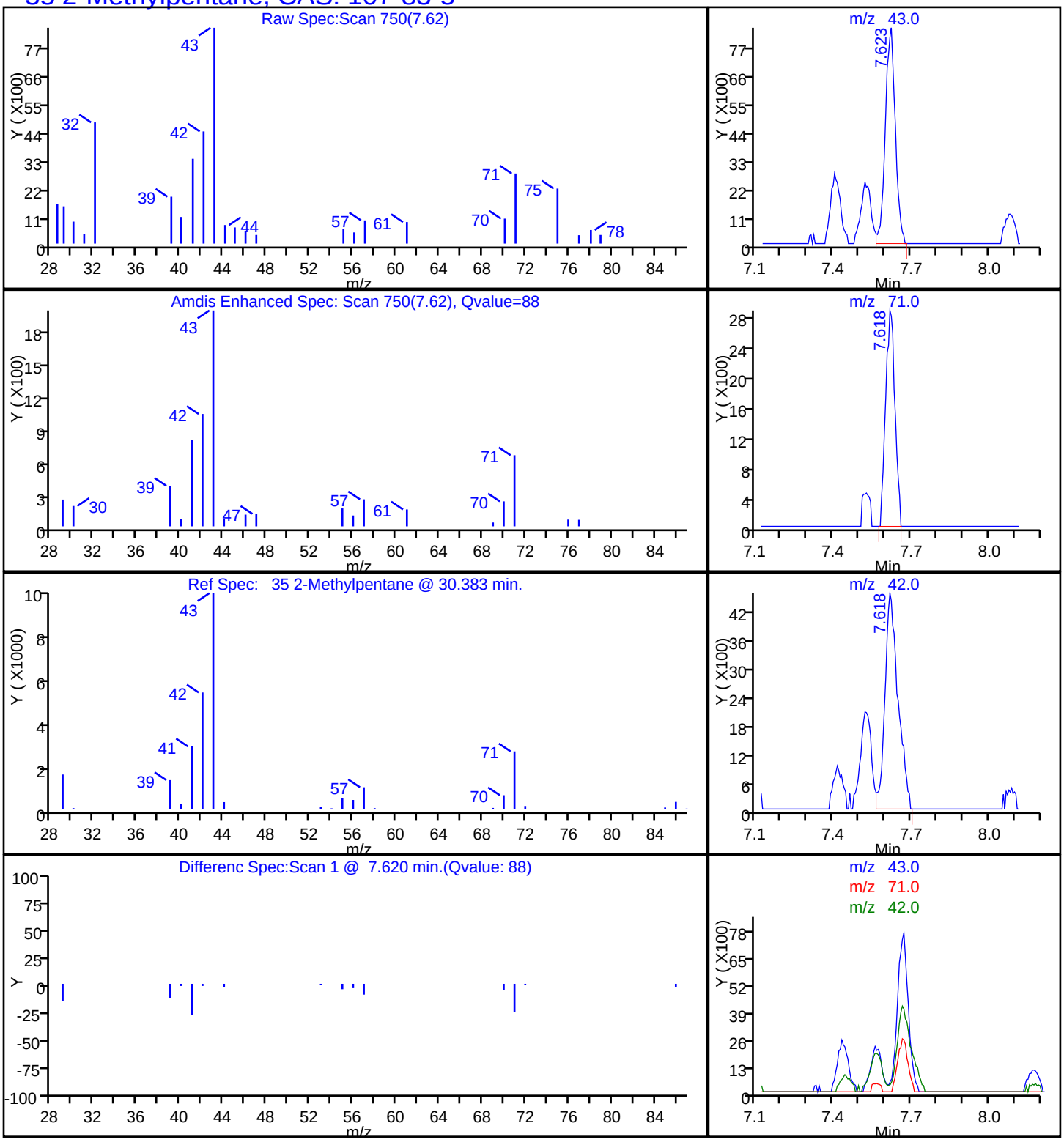
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date: 21-Mar-2014 17:20:30 Instrument ID: MJ

Lims ID: 140-1060-A-22 Lab Sample ID: 140-1060-22

Client ID: PCV-IA2-B20

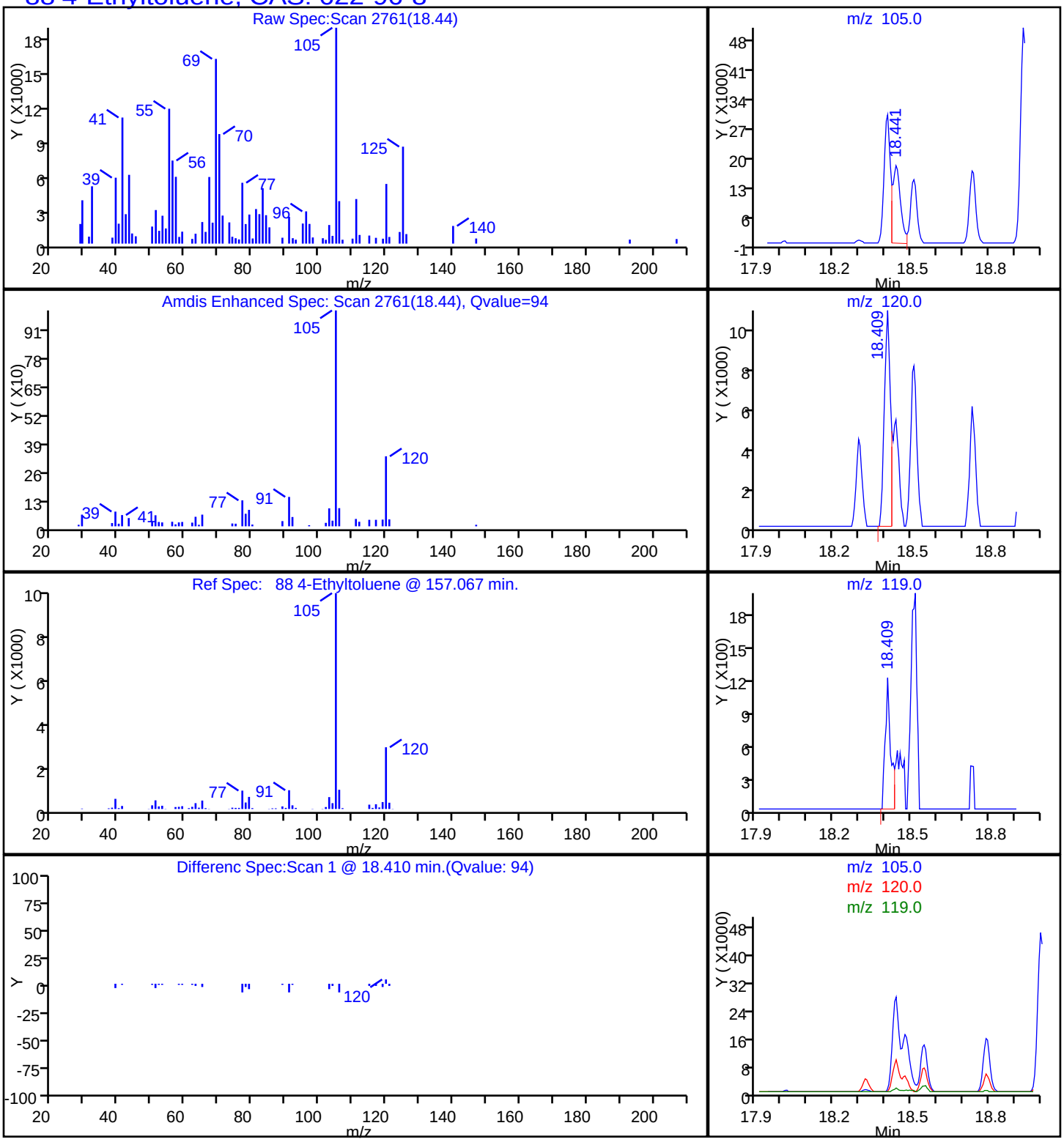
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

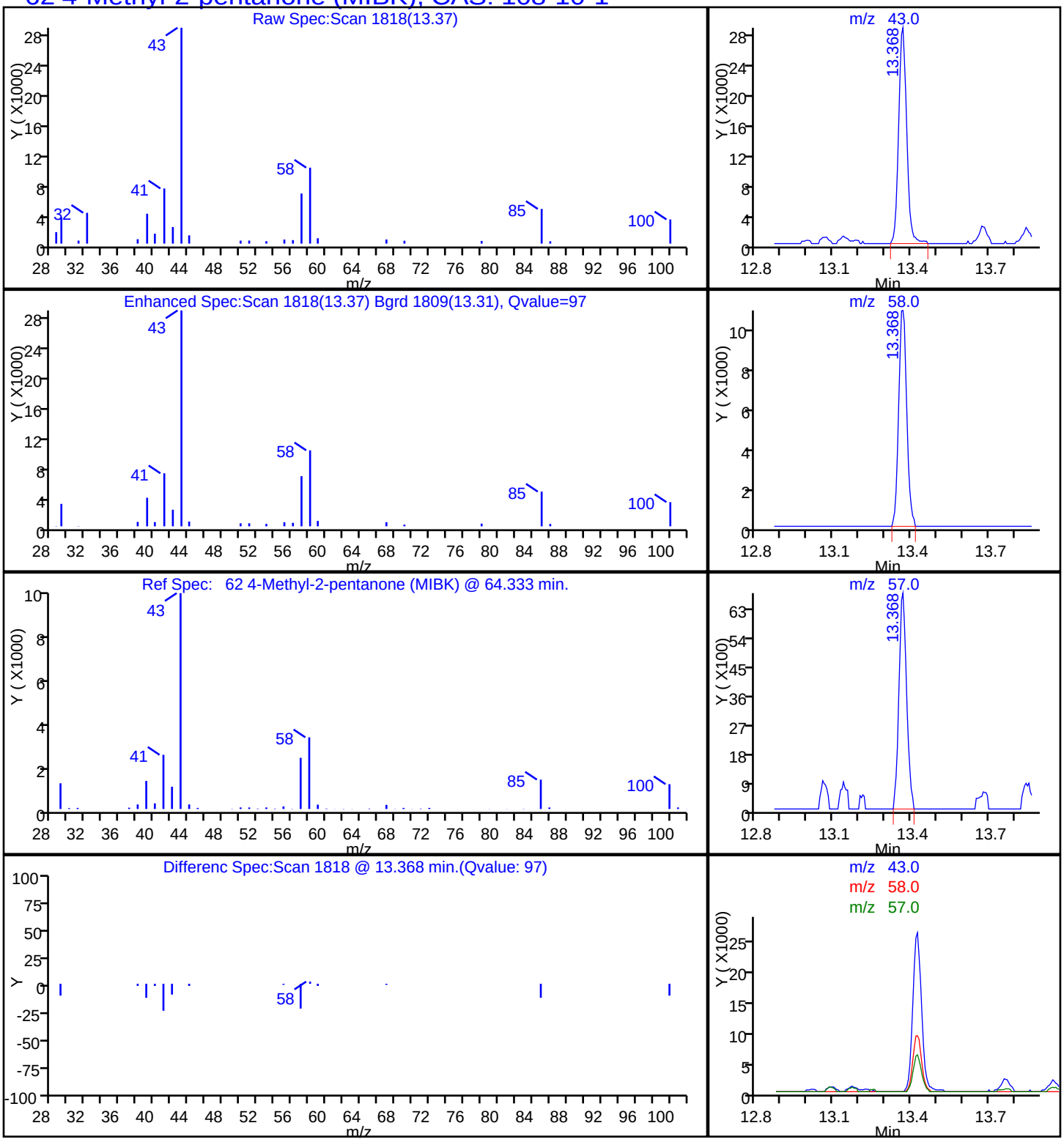


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D				
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



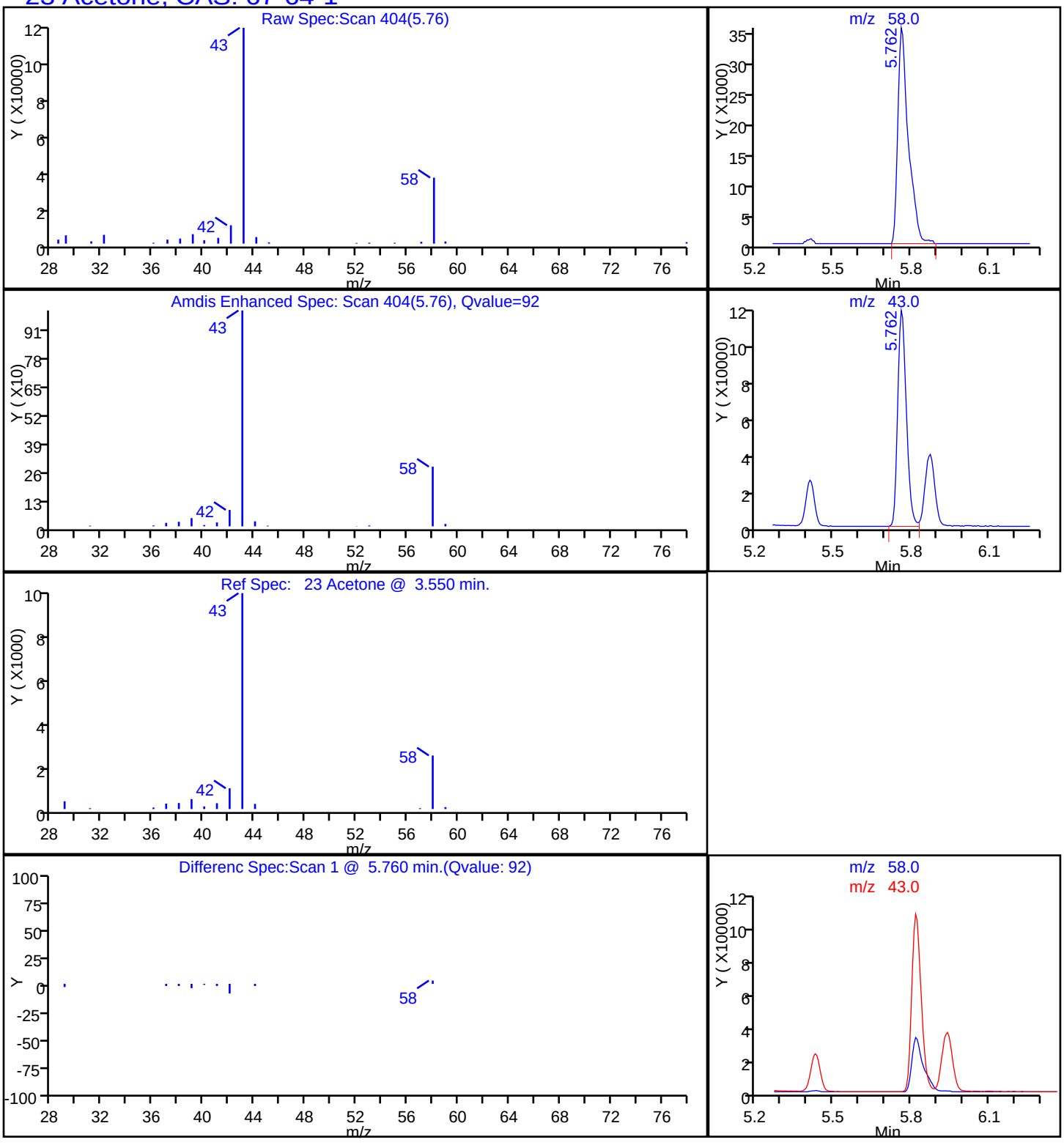
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



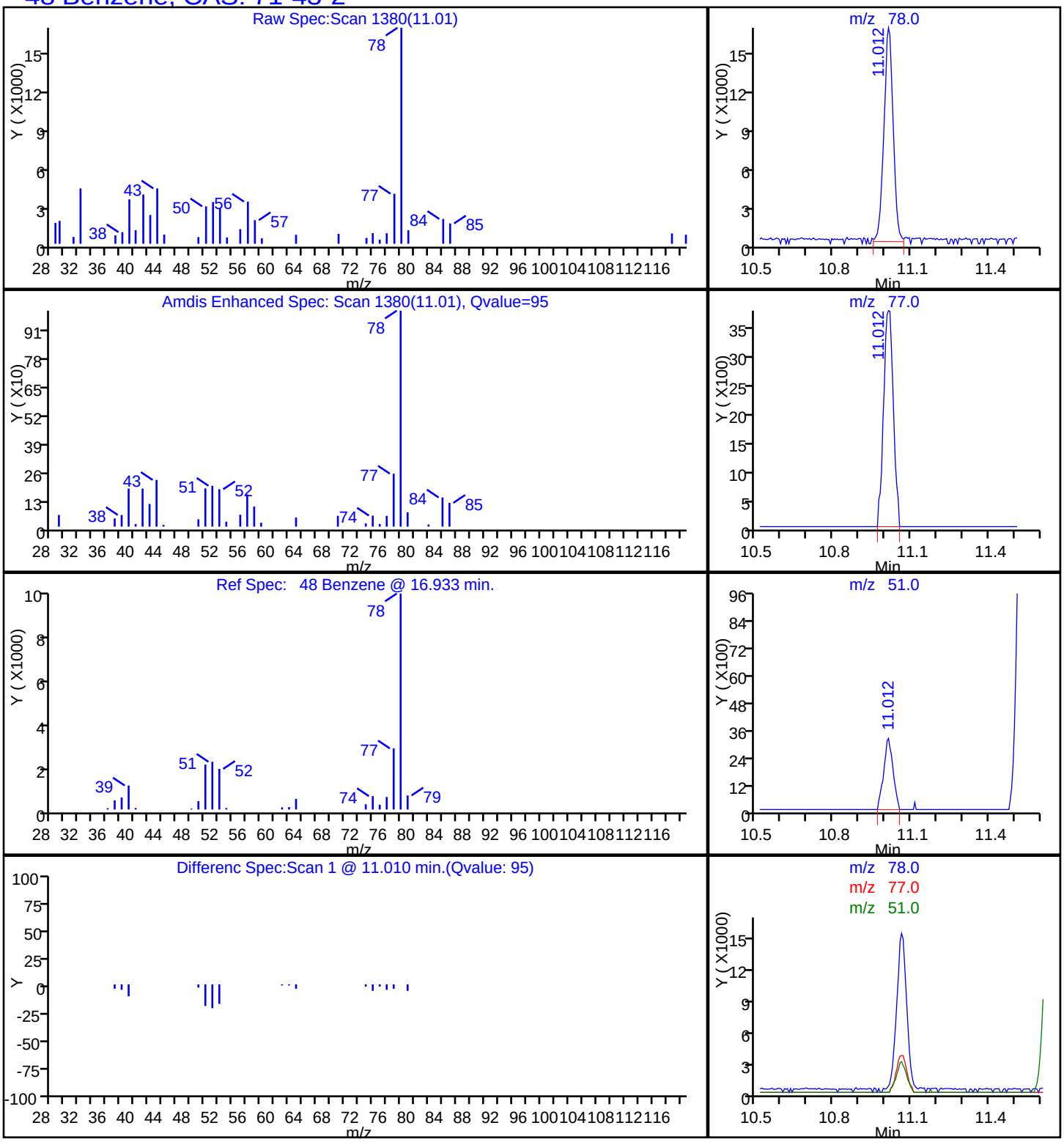
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



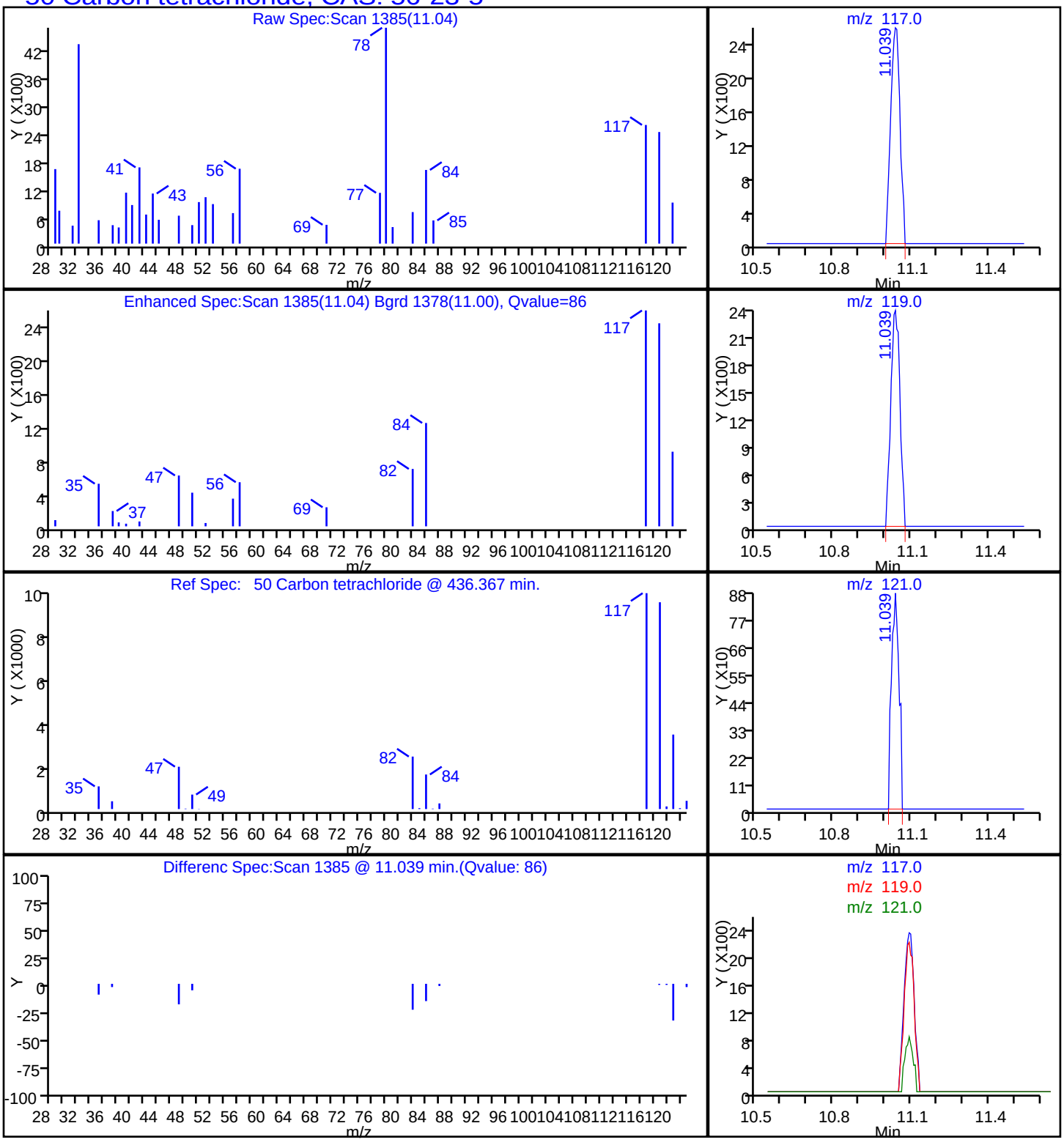
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



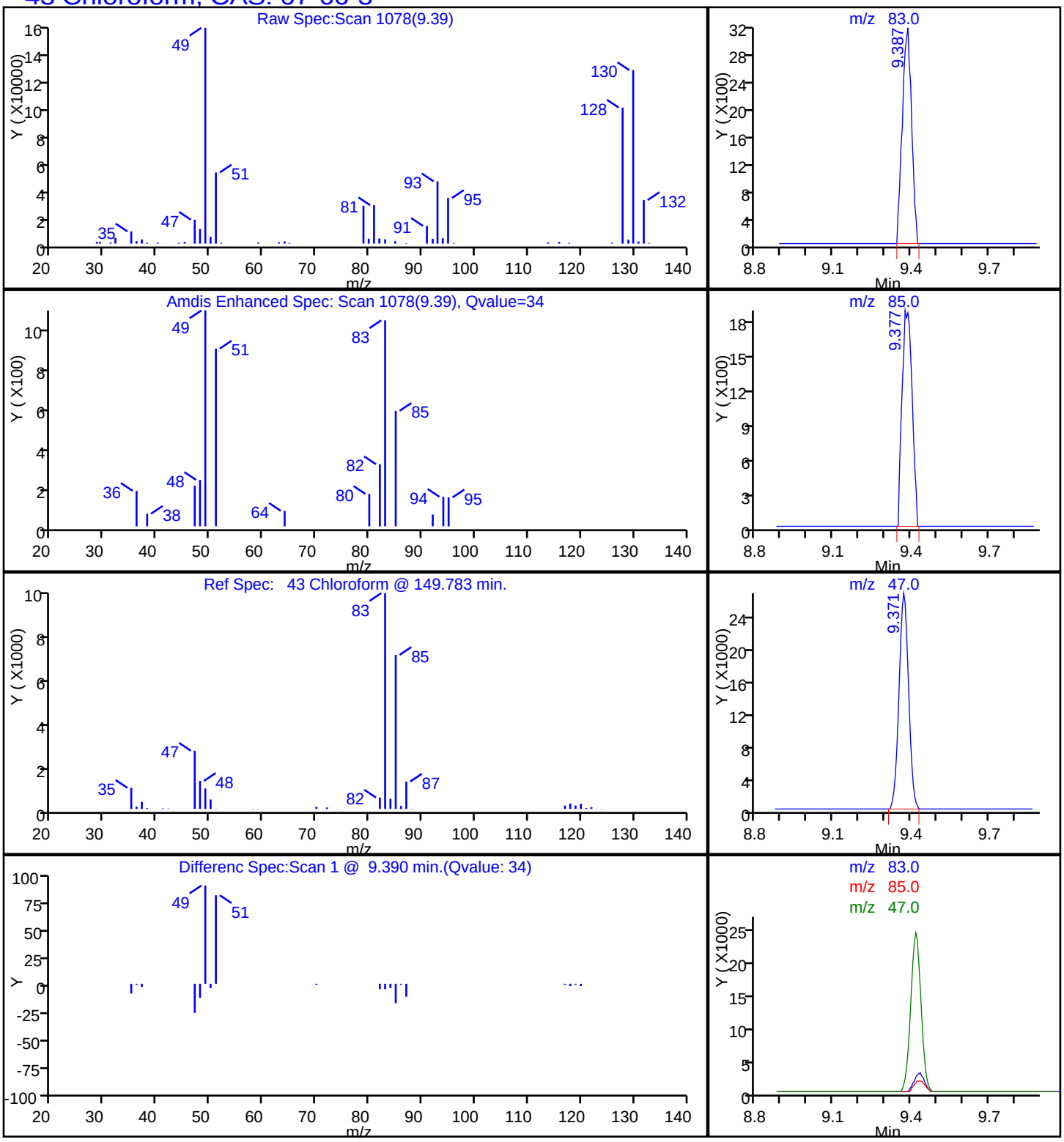
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



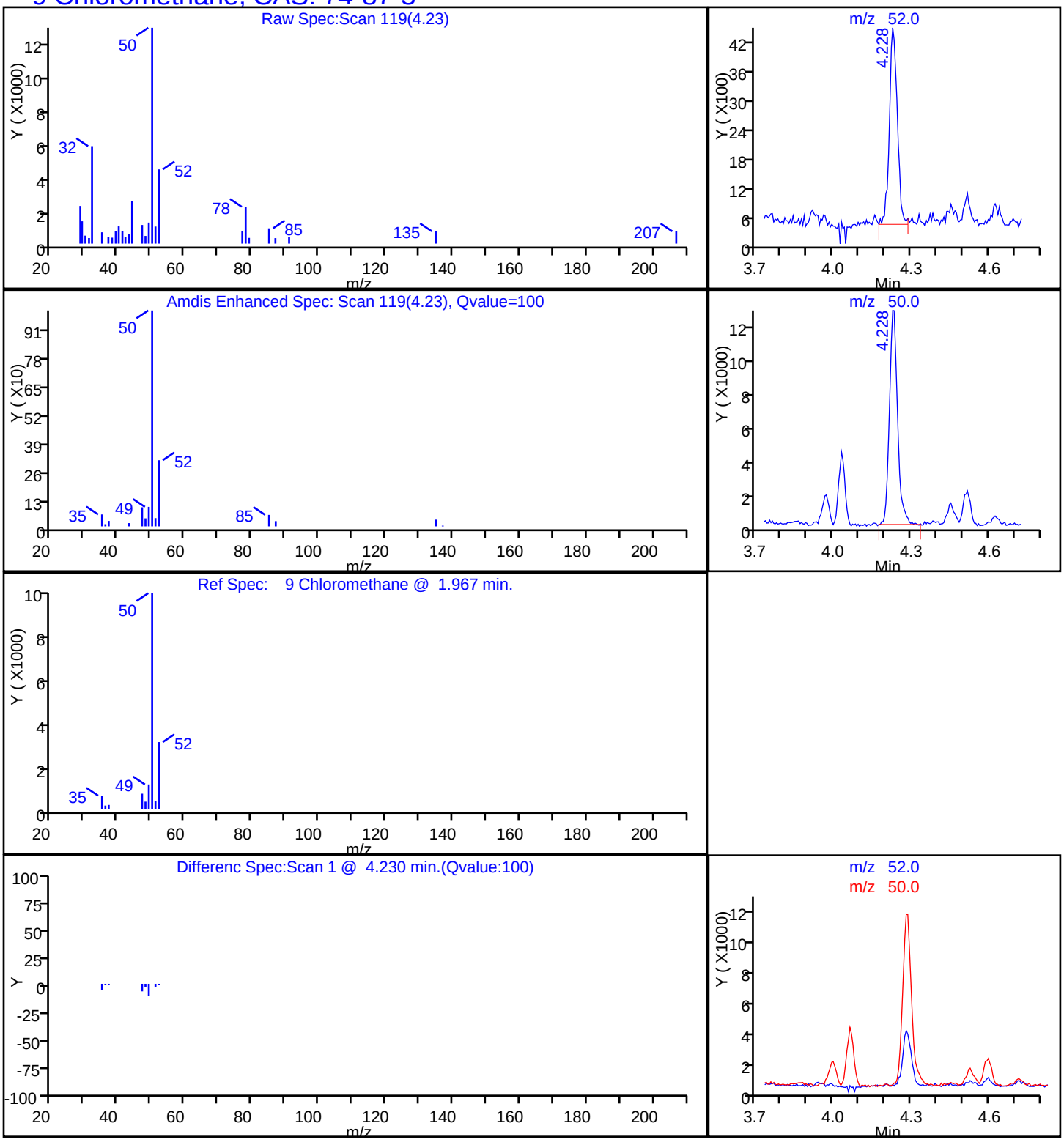
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



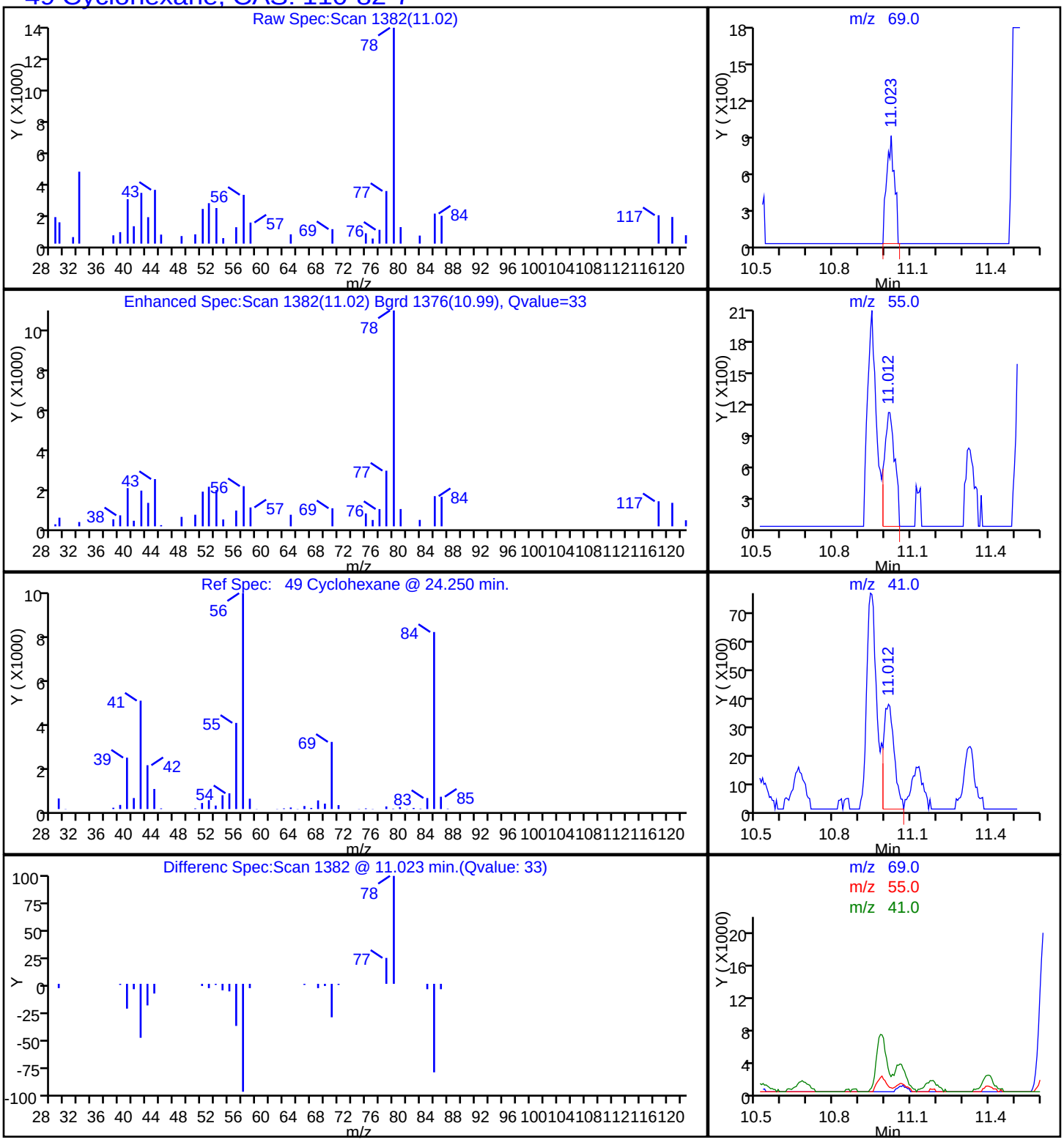
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7



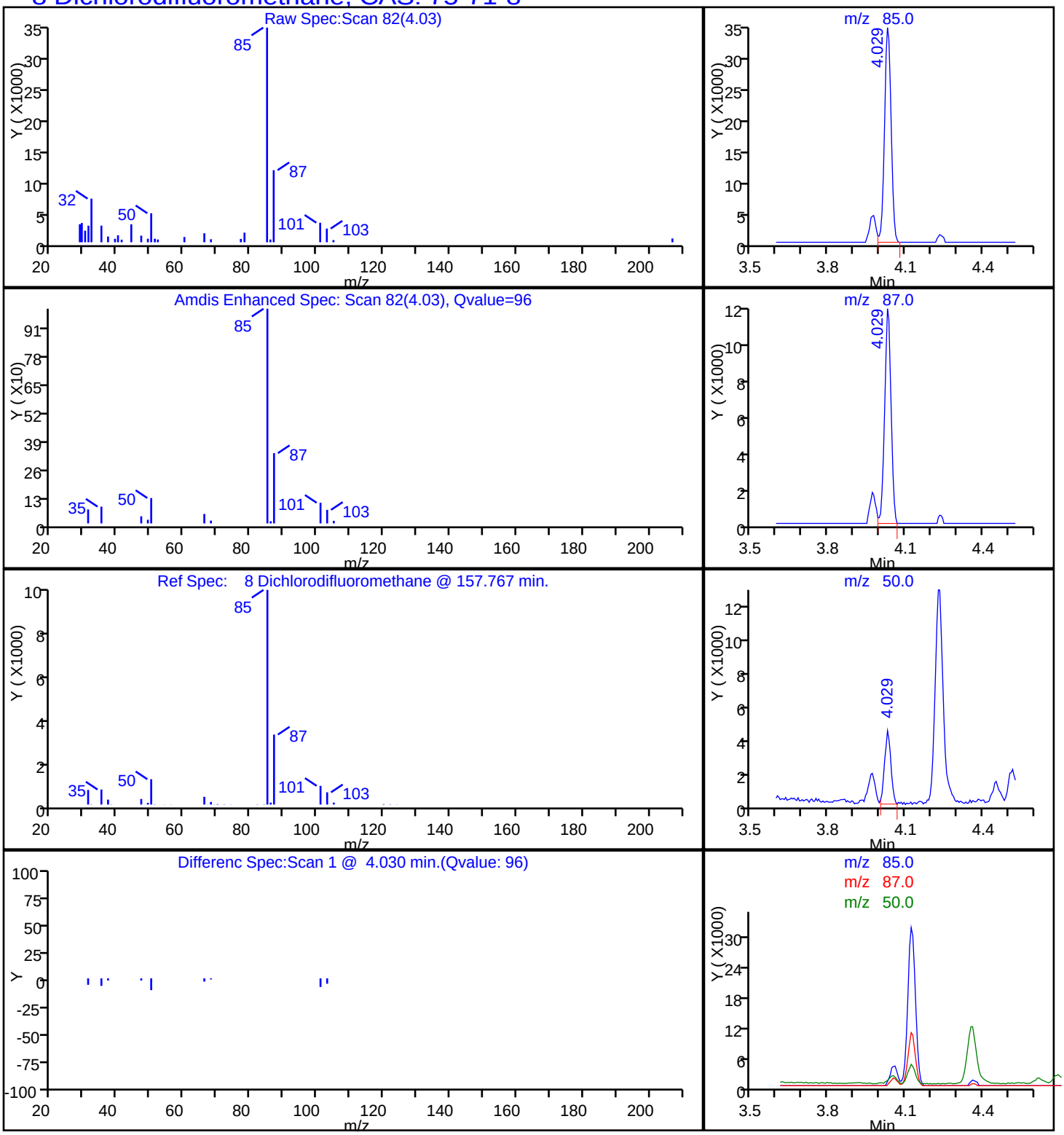
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

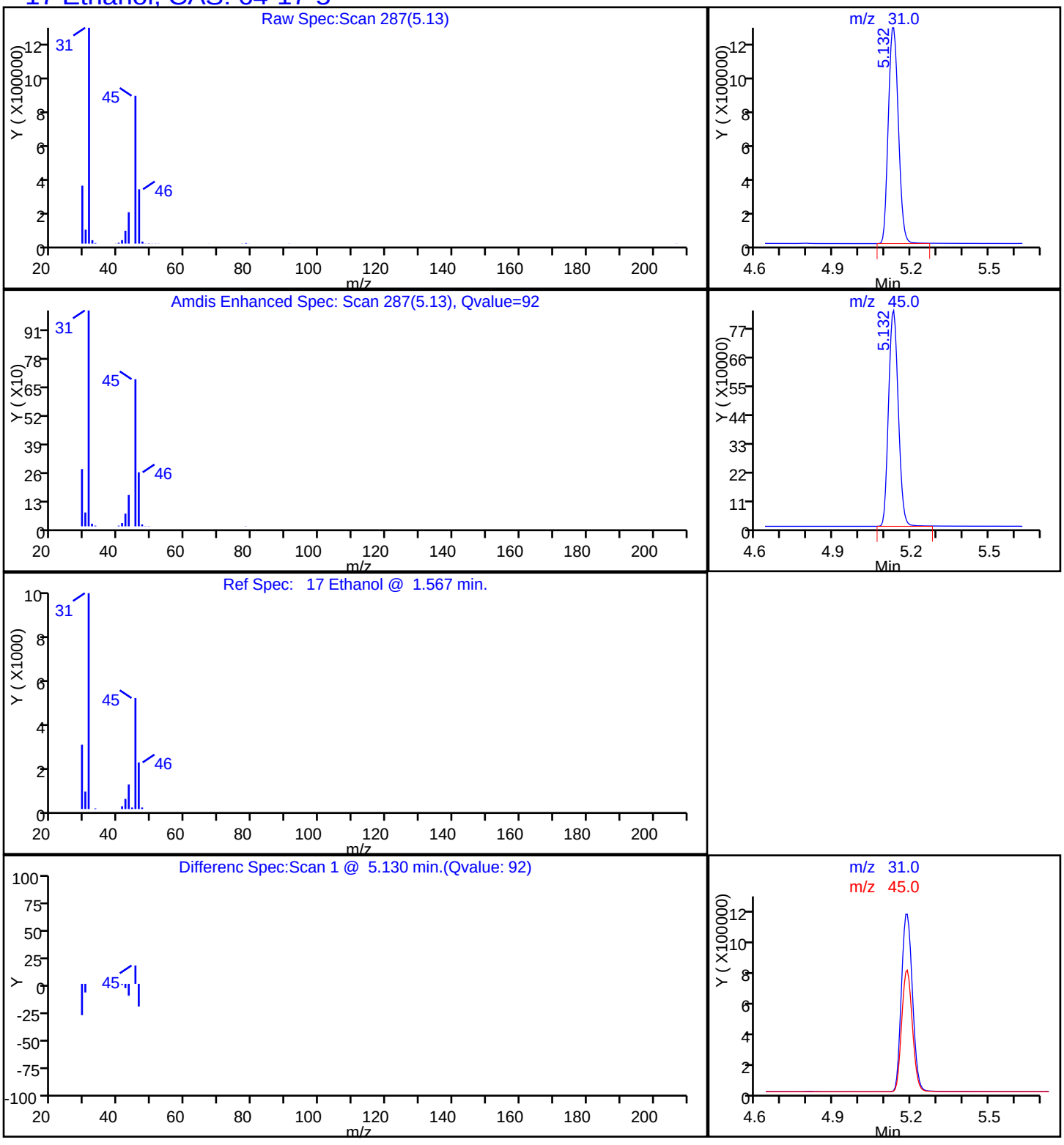


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D		
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



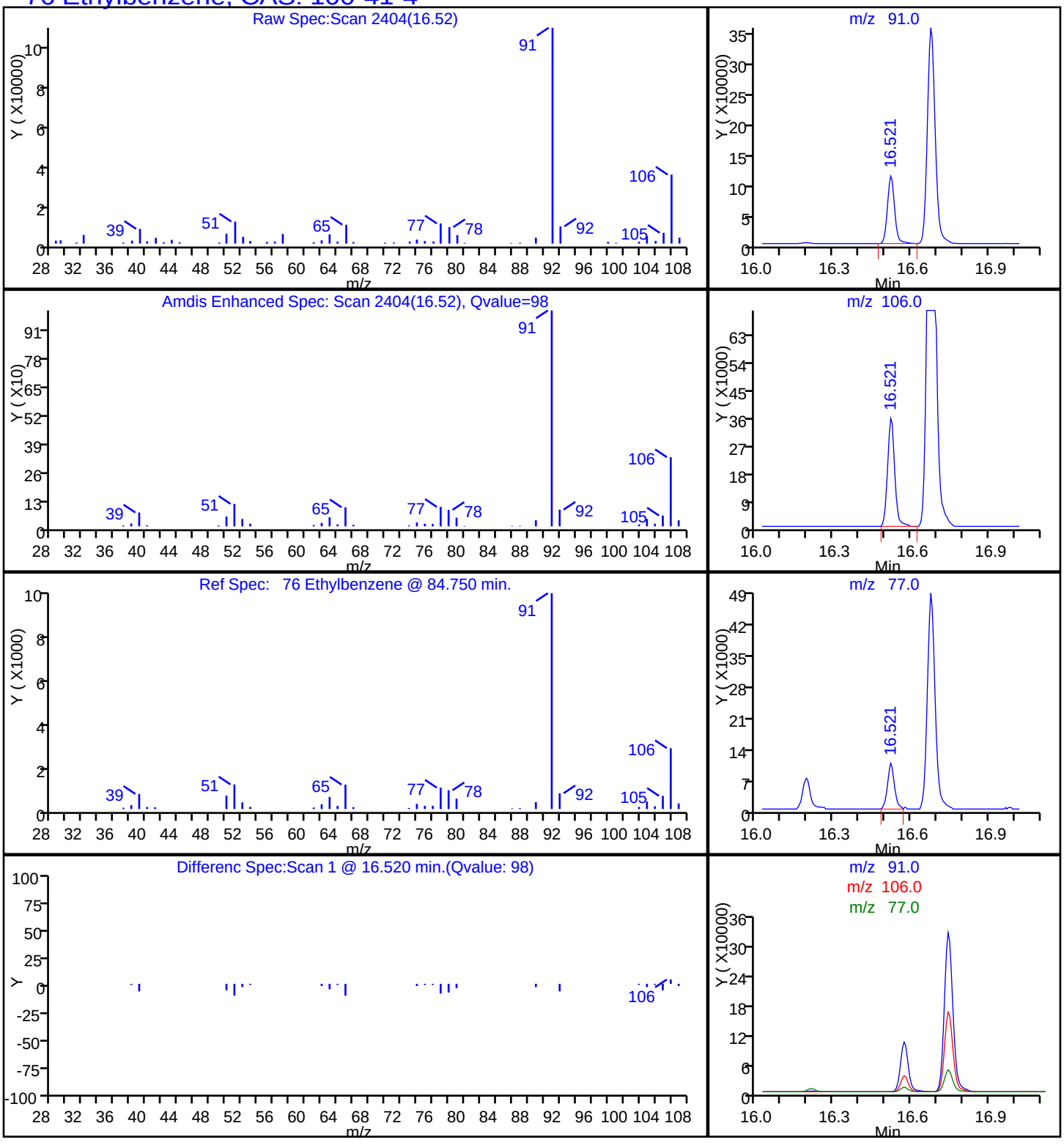
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



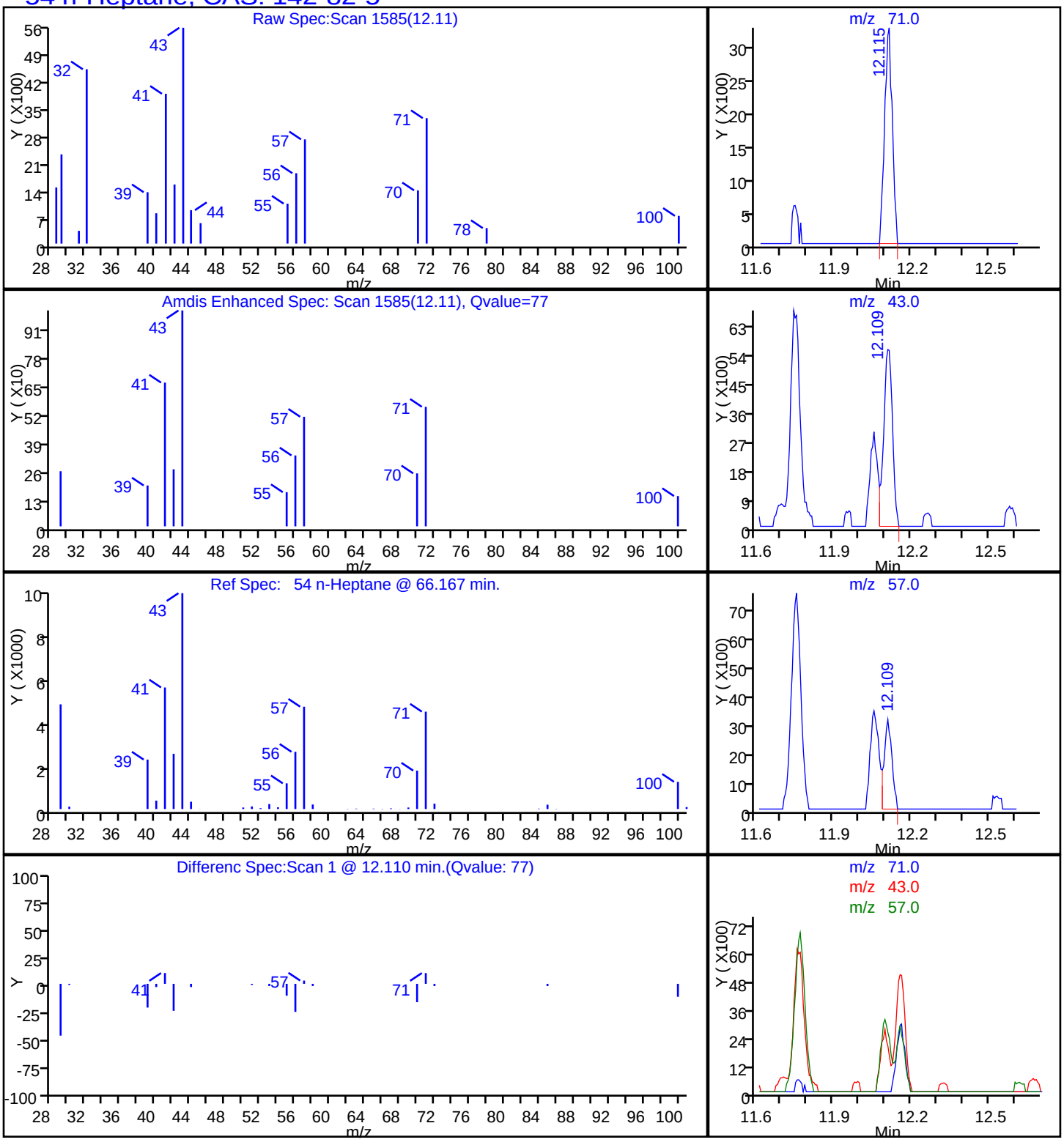
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



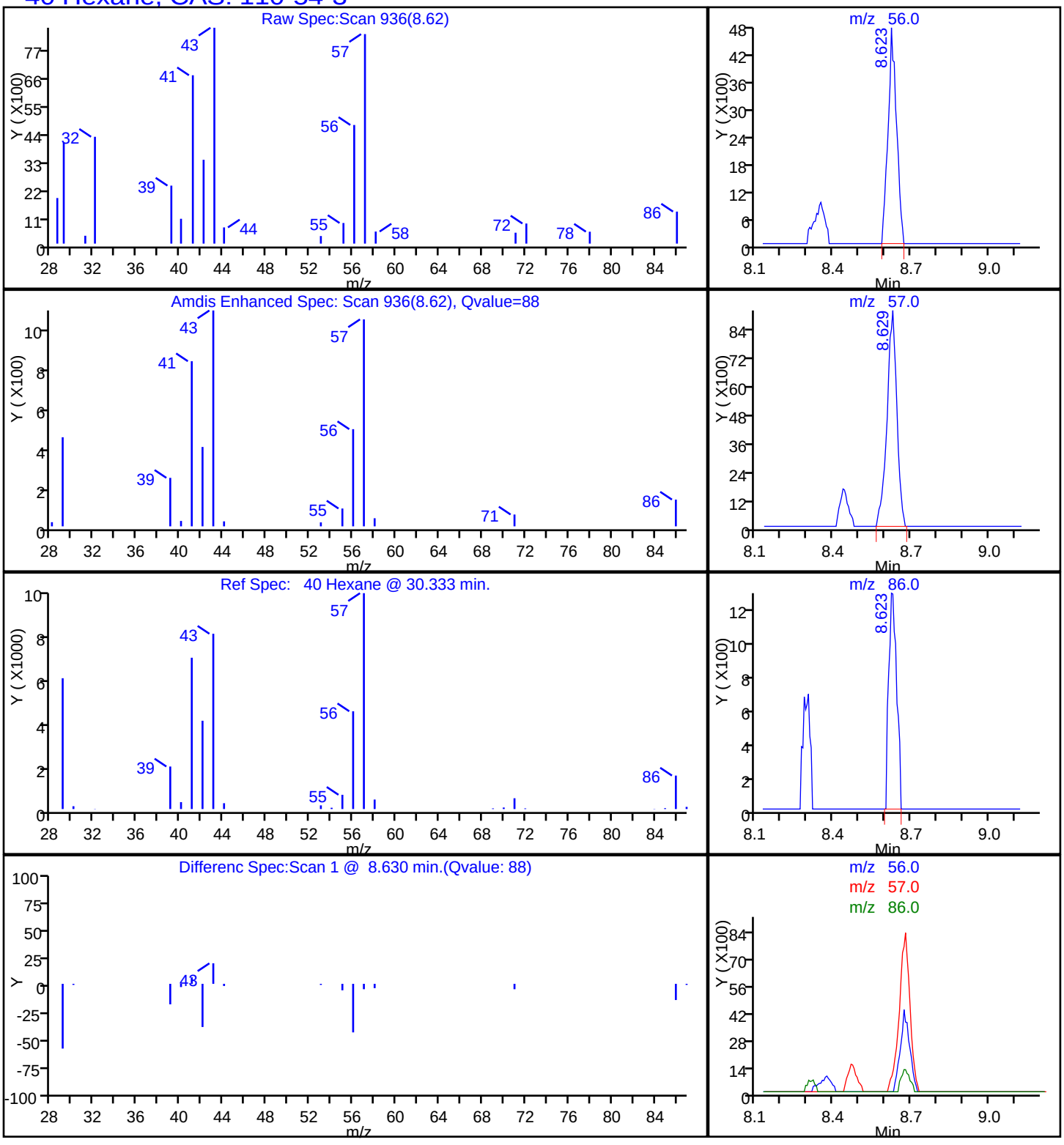
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



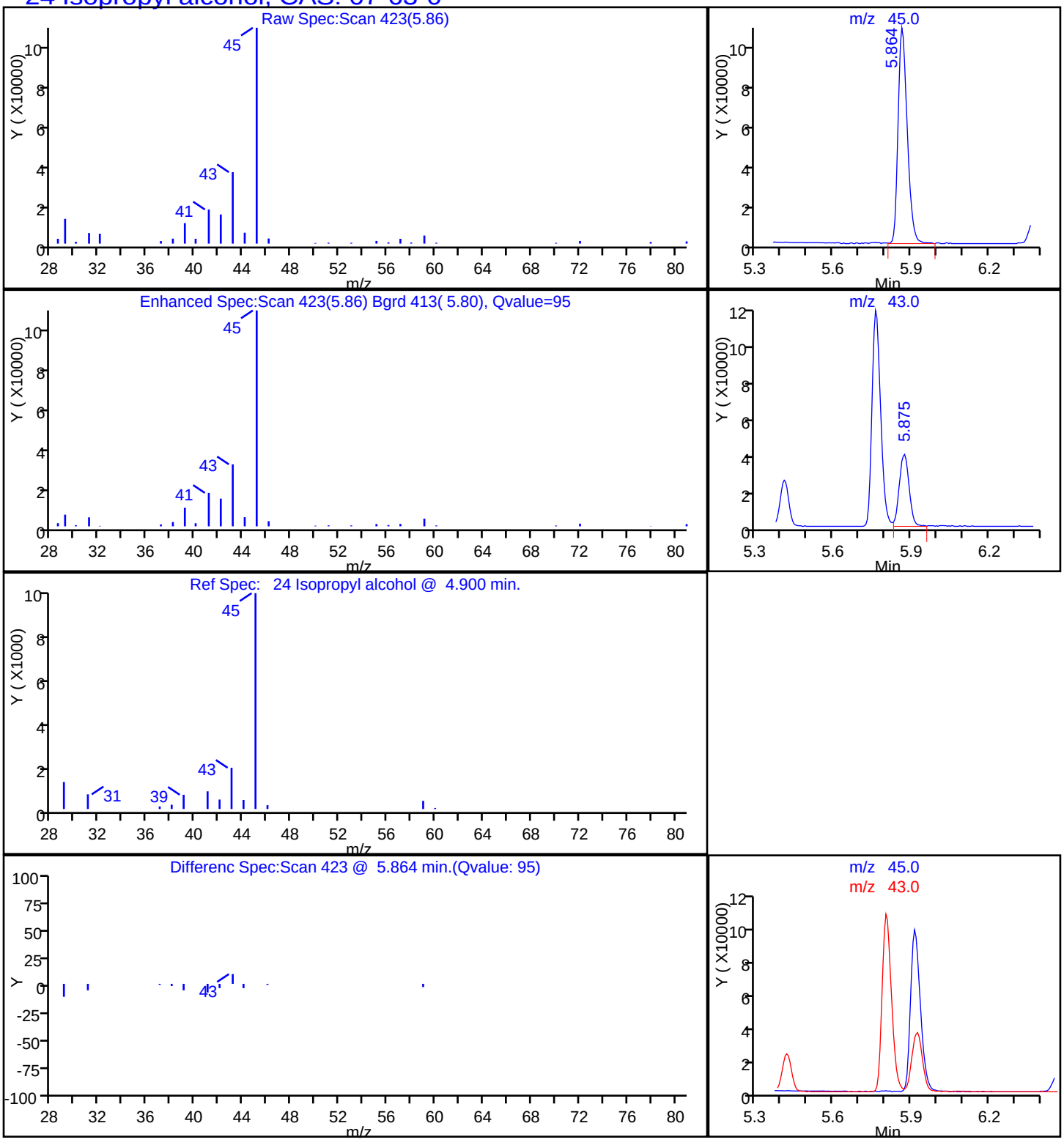
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



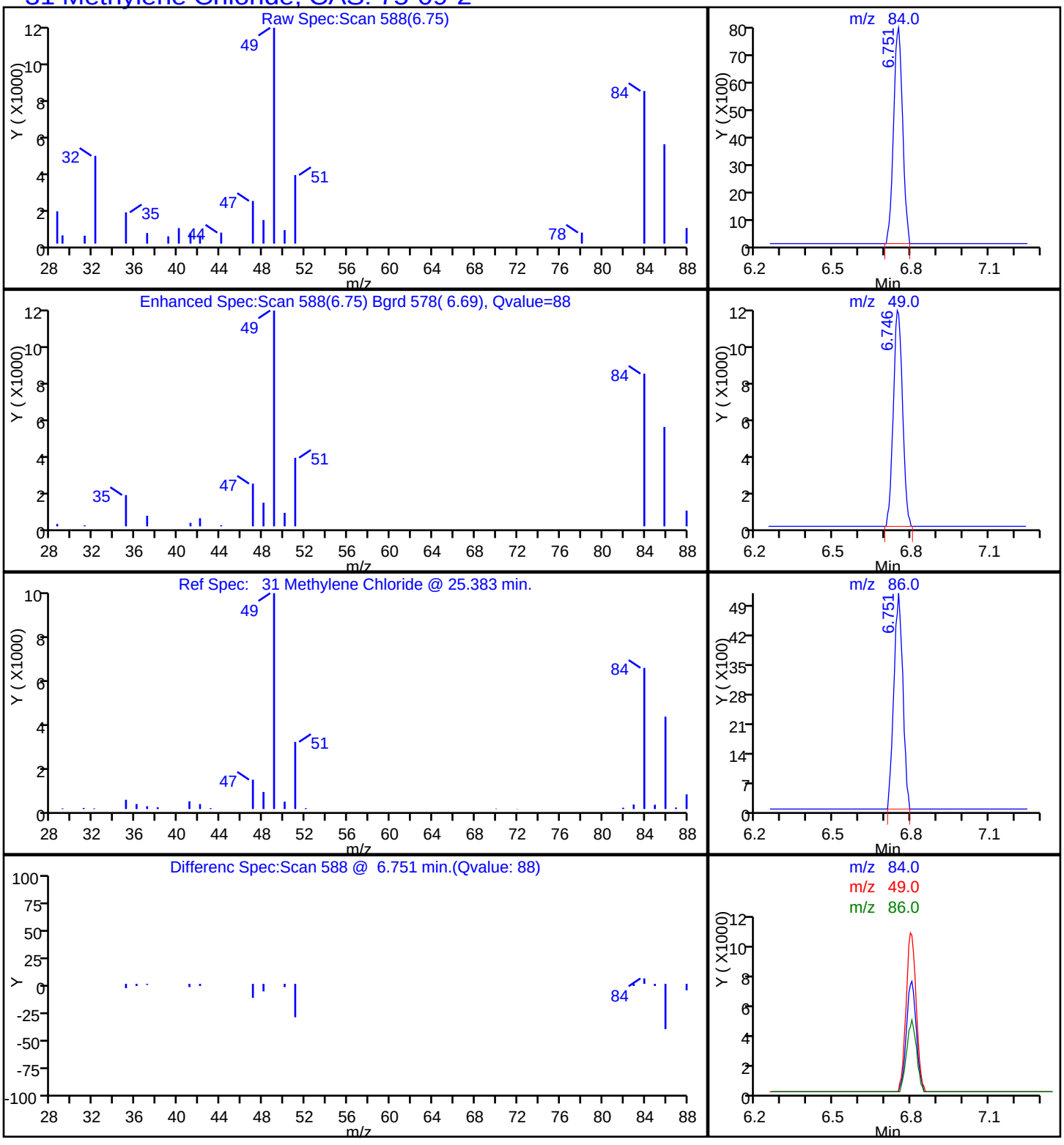
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

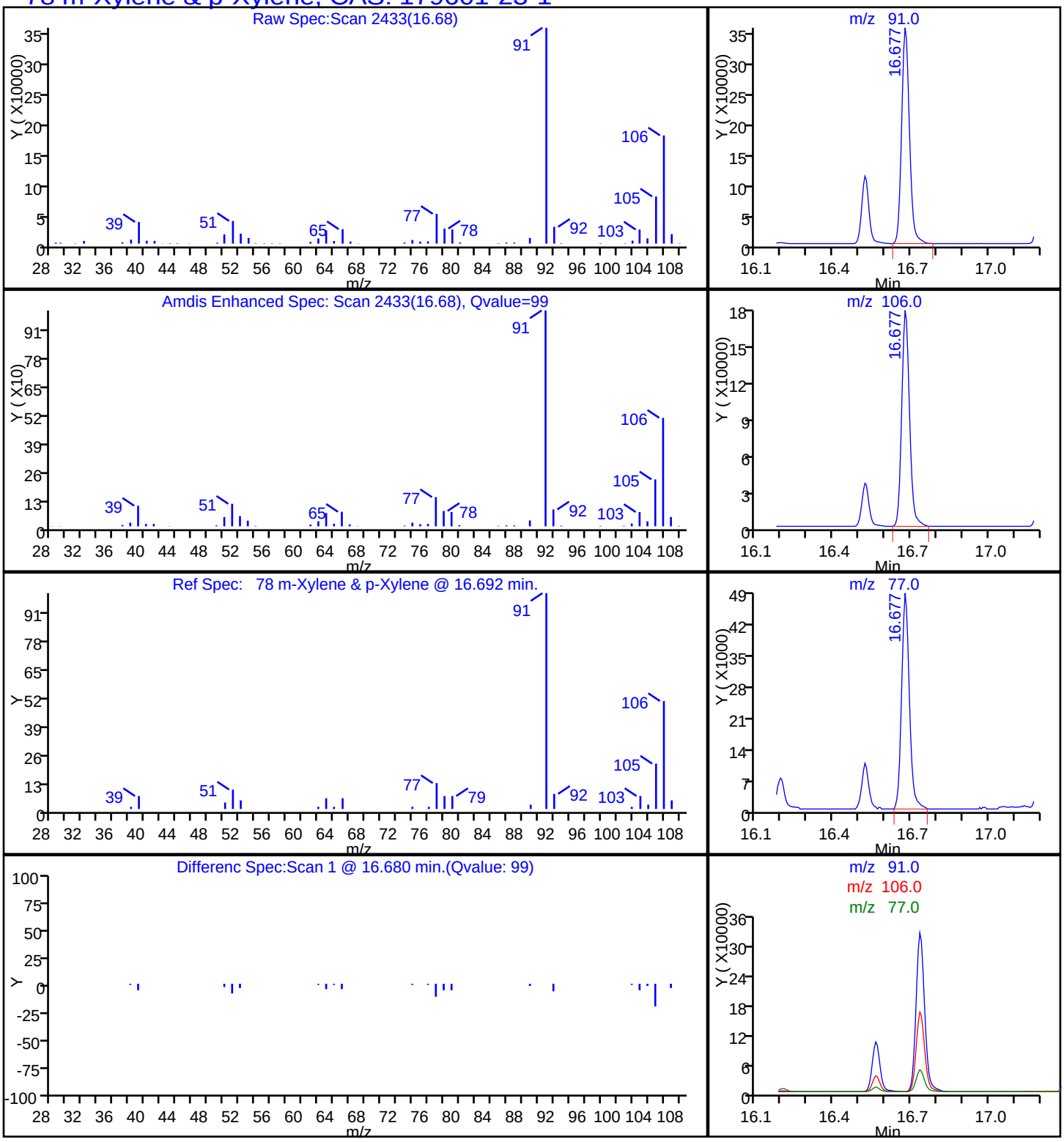


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D				
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



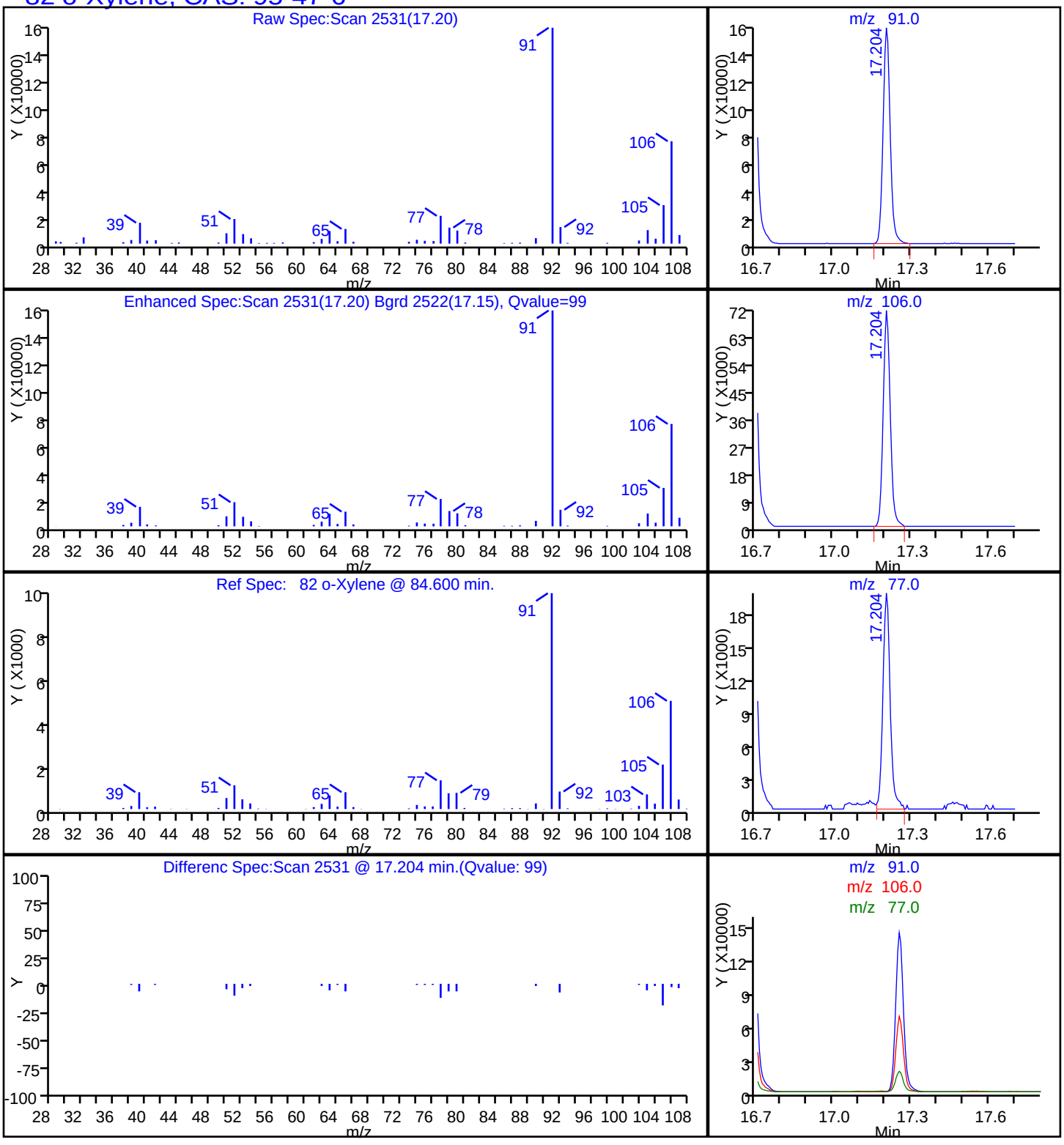
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



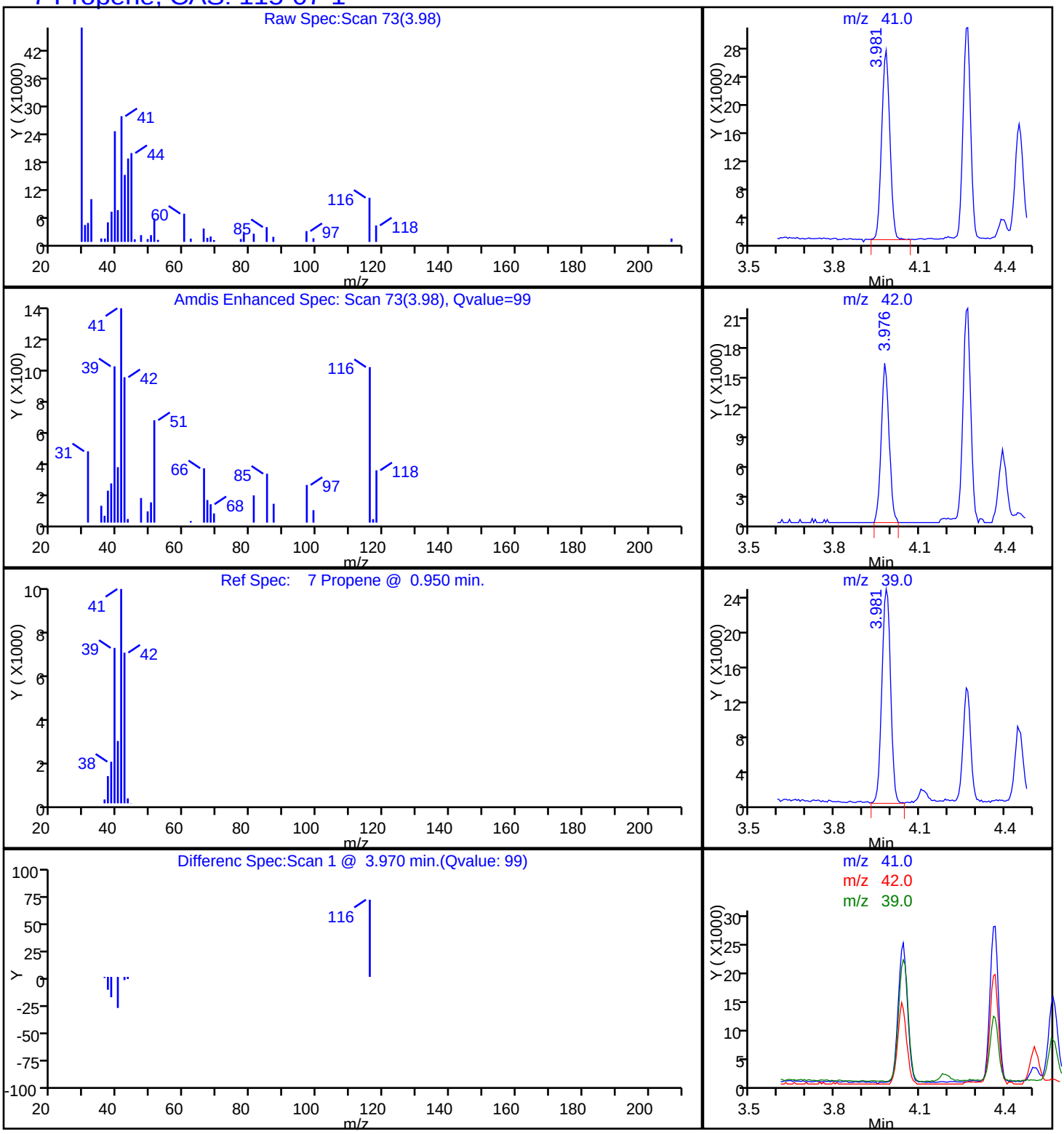
Report Date: 24-Mar-2014 08:41:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



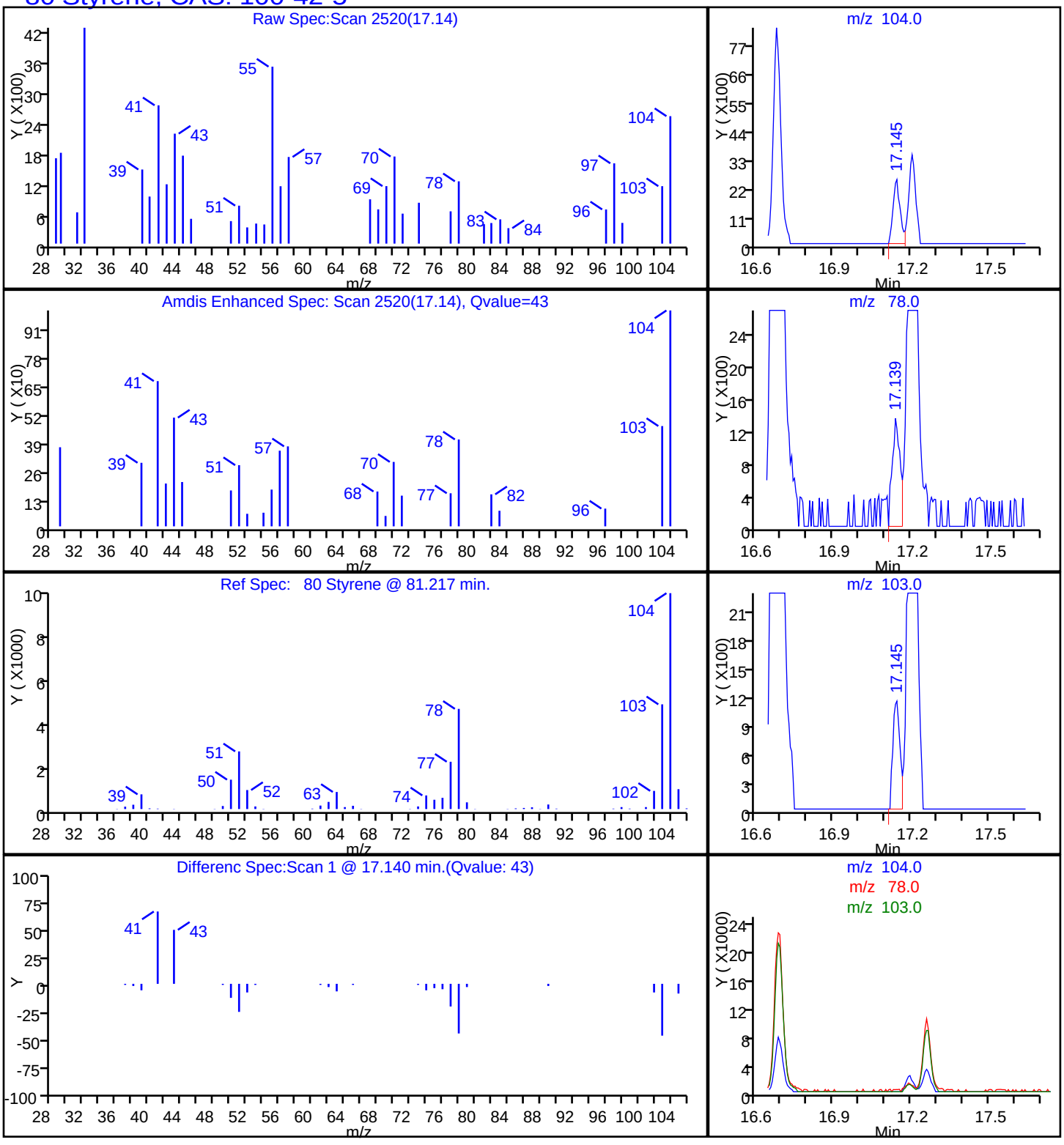
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



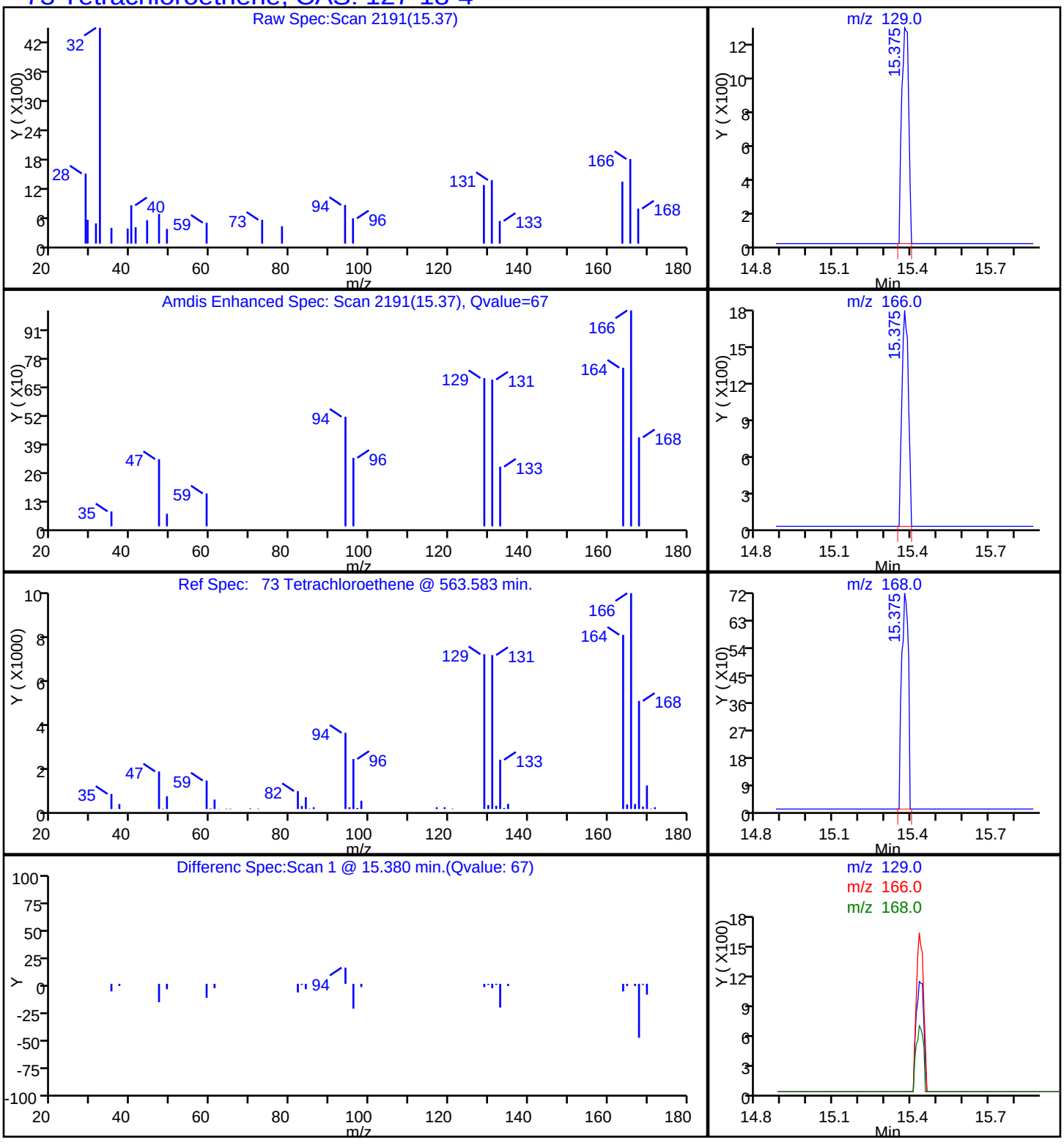
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

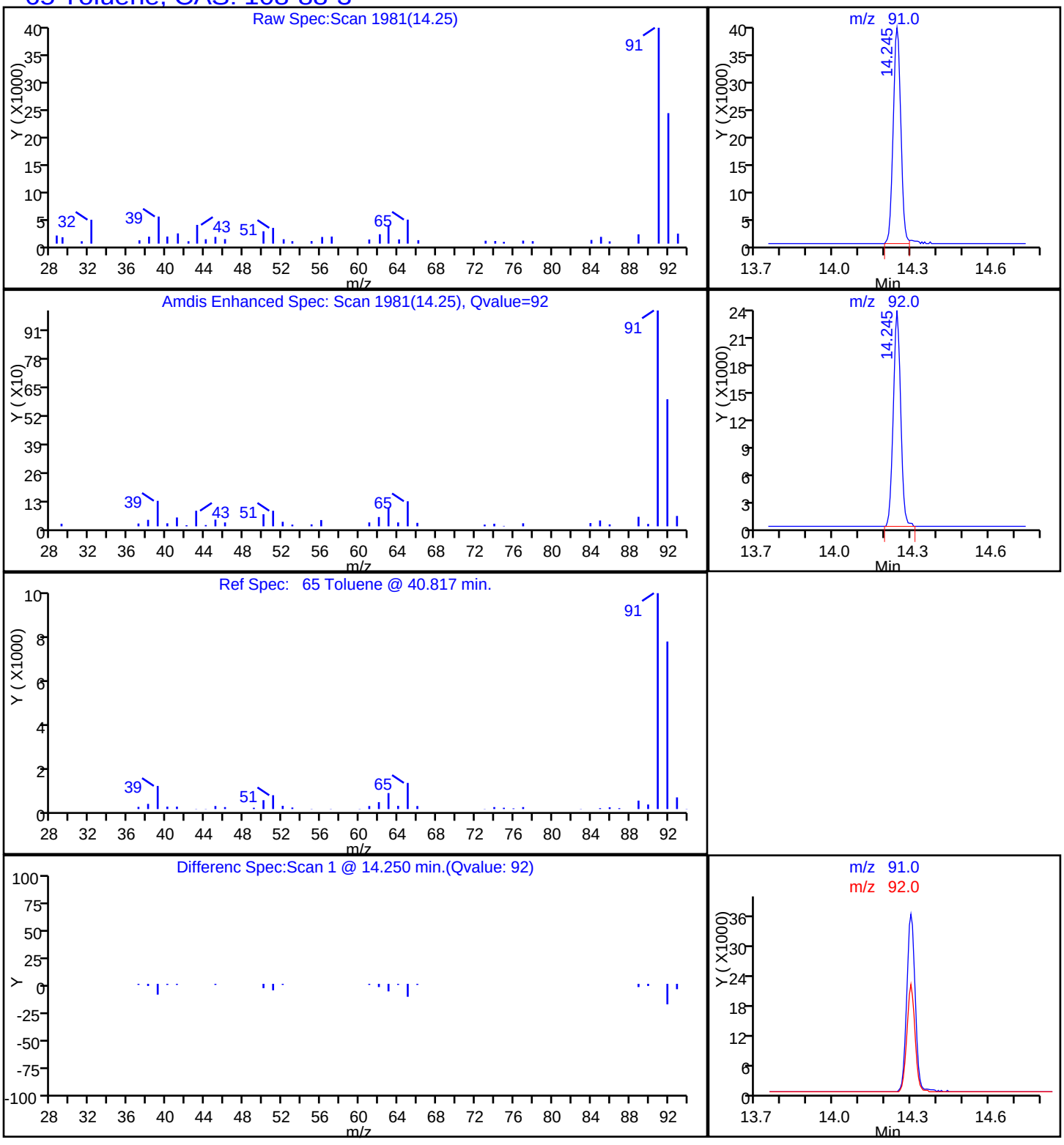


Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D		
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



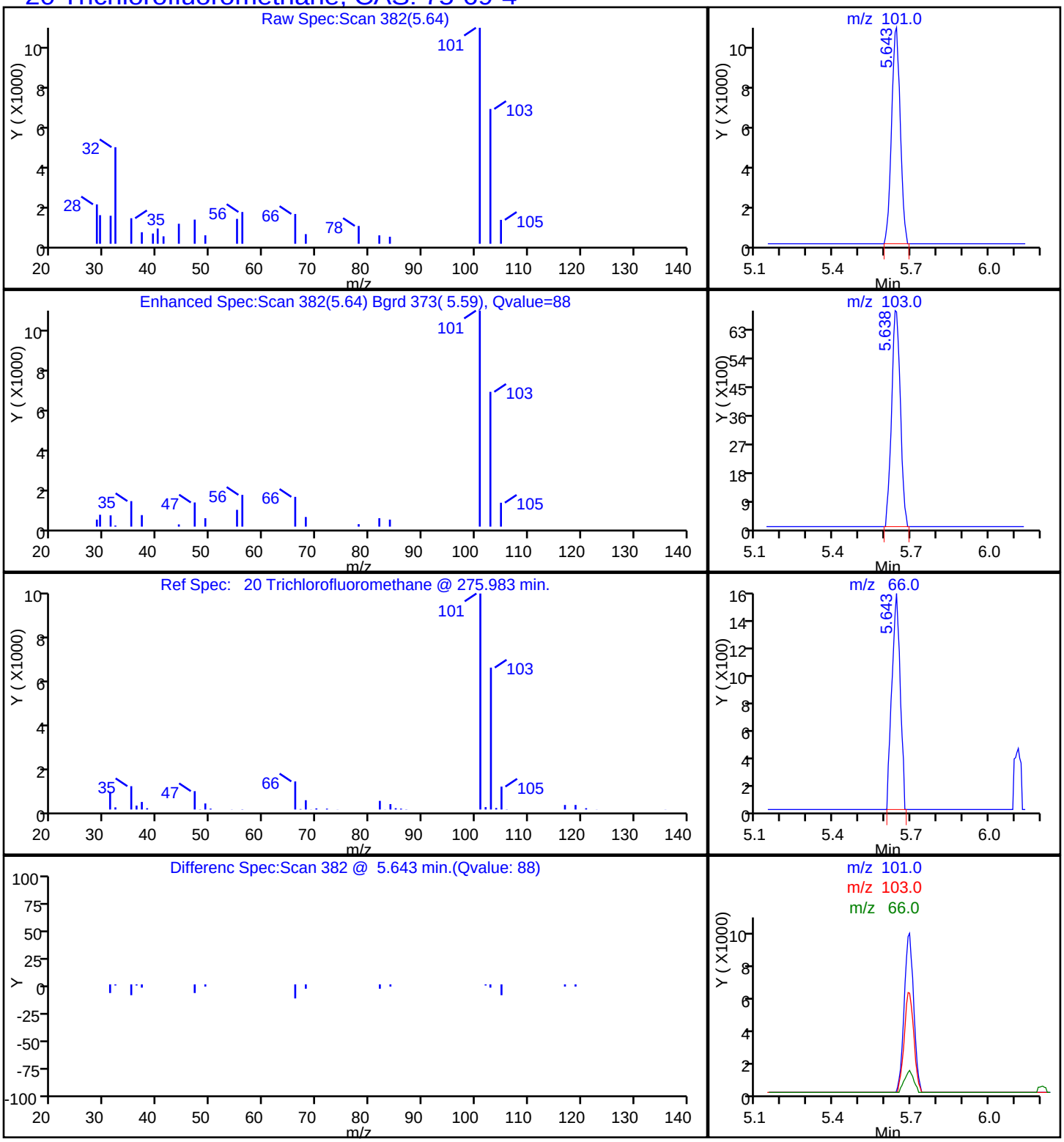
Report Date: 24-Mar-2014 08:41:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D

Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22
Client ID:	PCV-IA2-B20		
Operator ID:	7126	ALS Bottle#:	3 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

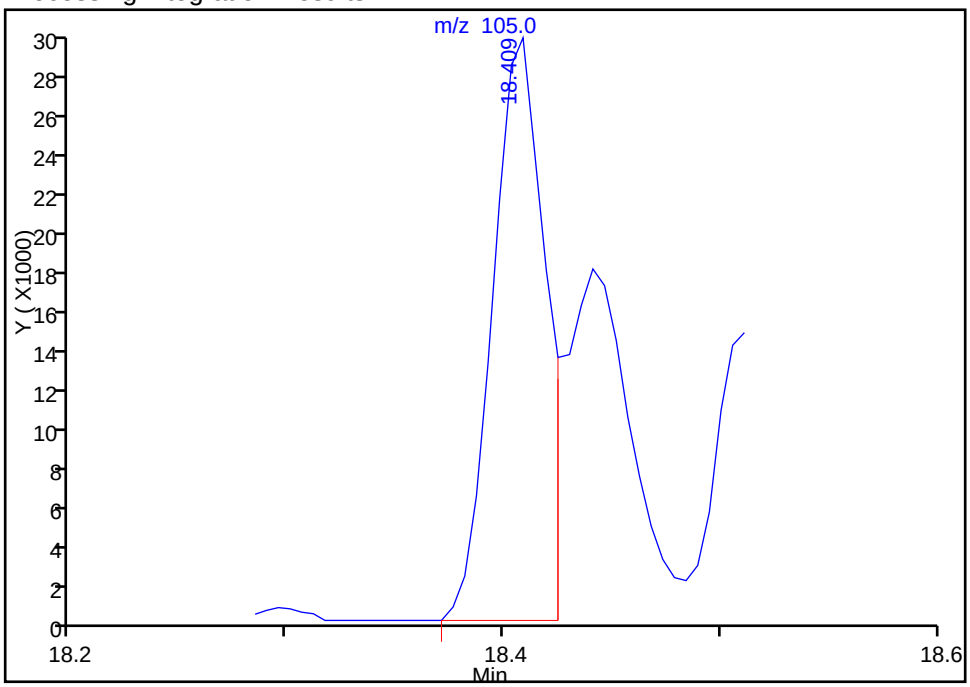
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P103.D				
Injection Date:	21-Mar-2014 17:20:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

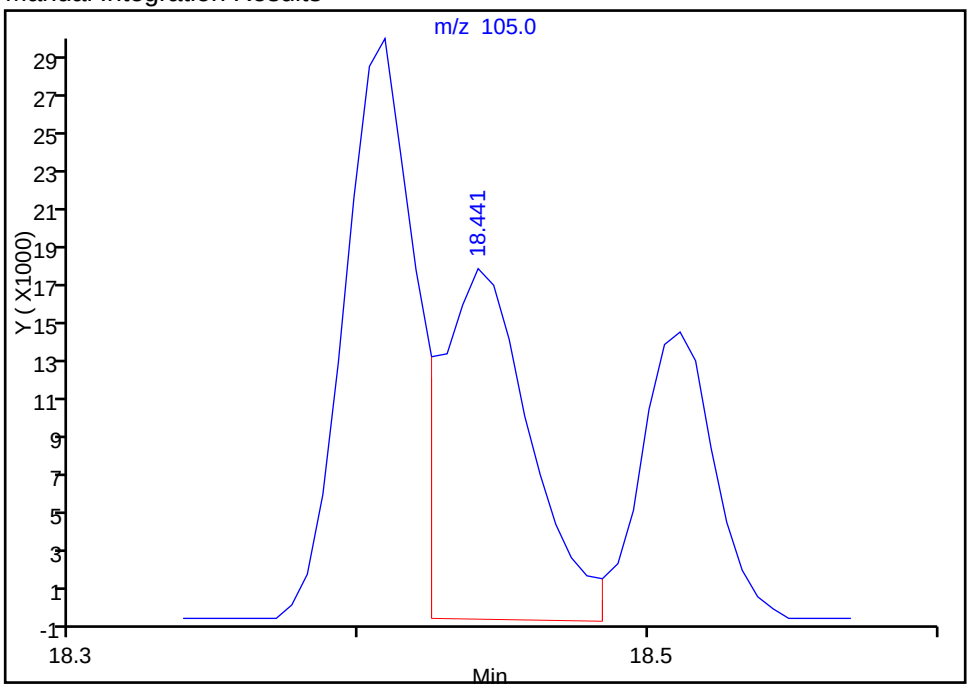
Processing Integration Results

RT: 18.41
Response: 51006
Amount: 0.162661



Manual Integration Results

RT: 18.44
Response: 39932
Amount: 0.127346



Reviewer: tajh, 24-Mar-2014 08:41:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 DL Lab Sample ID: 140-1060-22 DL

Matrix: Air Lab File ID: EC24P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 80(mL) Date Analyzed: 03/24/2014 19:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	240		5.0	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B20 DL Lab Sample ID: 140-1060-22 DL

Matrix: Air Lab File ID: EC24P112.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:35

Sample wt/vol: 80(mL) Date Analyzed: 03/24/2014 19:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	450		9.4	9.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P112.D
Lims ID: 140-1060-A-22 Lab Sample ID: 140-1060-22
Client ID: PCV-IA2-B20
Sample Type: Client
Inject. Date: 24-Mar-2014 19:53:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-22
Misc. Info.: E032414,TO155,,140-0000541-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:24:44

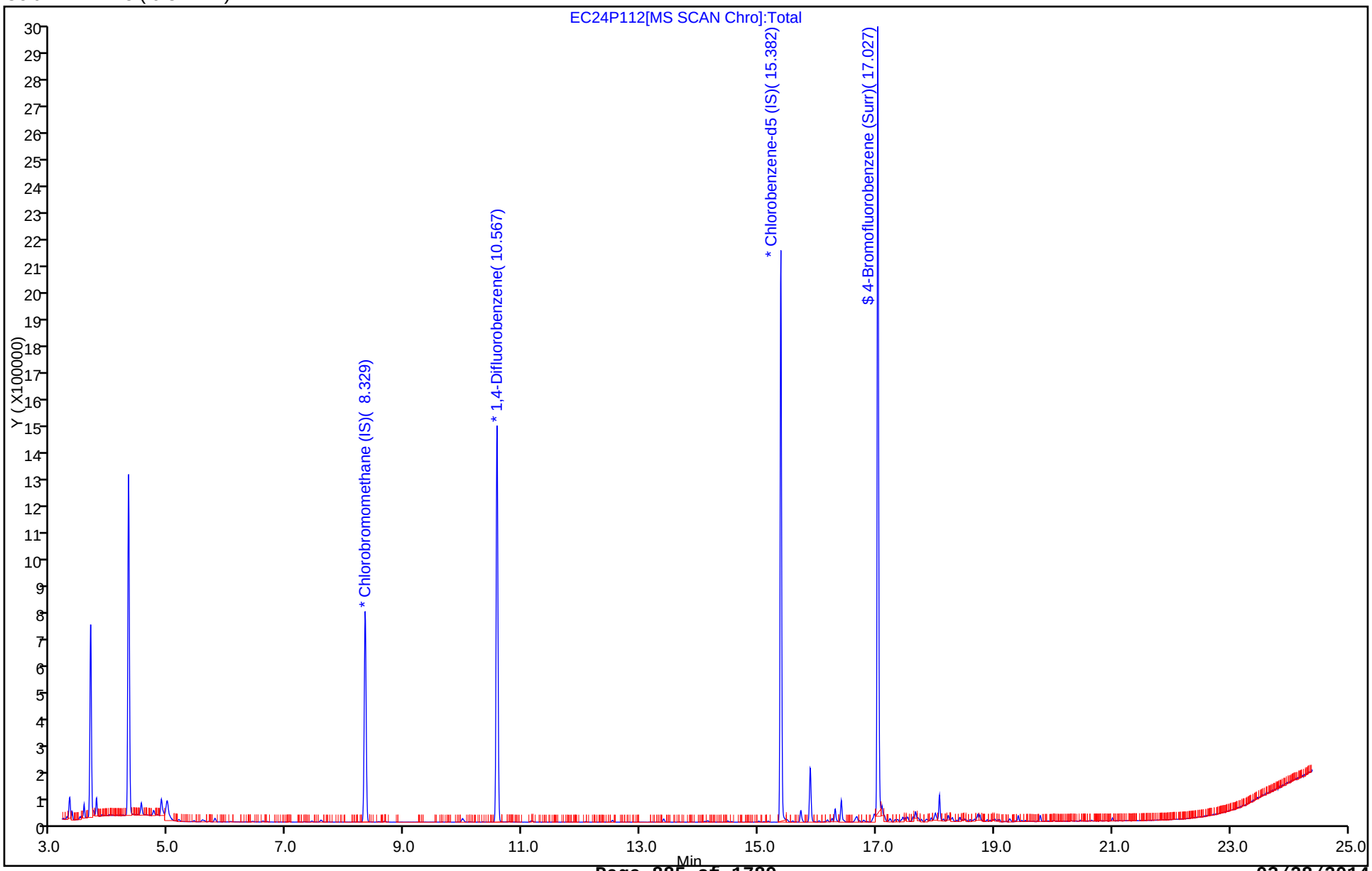
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	68	254255	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1235281	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1125112	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	965345	3.92	
7 Propene	41	3.319	3.314	0.005	69	12586	0.1968	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	98	22123	0.0787	
9 Chloromethane	52	3.530	3.530	0.0	86	3756	0.1673	
17 Ethanol	31	4.317	4.312	0.005	97	969843	38.1	
19 2-Methylbutane	43	4.533	4.533	0.0	85	15470	0.1737	
21 Trichlorofluoromethane	101	4.738	4.743	-0.005	93	13050	0.0463	
23 Acetone	58	4.872	4.878	-0.006	92	27768	0.7210	
24 Isopropyl alcohol	45	4.975	4.969	0.006	94	57143	0.5763	
31 Methylene Chloride	84	5.784	5.789	-0.005	67	6839	0.0941	
40 Hexane	56	7.579	7.579	0.0	69	1214	0.0180	
48 Benzene	78	9.984	9.990	-0.006	75	7339	0.0295	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.519	0.005	80	3936	0.0269	
76 Ethylbenzene	91	15.722	15.722	0.0	94	32913	0.0852	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	138862	0.4570	
82 o-Xylene	91	16.407	16.407	0.0	96	51492	0.1568	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	72	11910	0.0345	

Report Date: 25-Mar-2014 07:24:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P112.D				
Injection Date:	24-Mar-2014 19:53:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22	Worklist Smp#:	15
Client ID:	PCV-IA2-B20				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

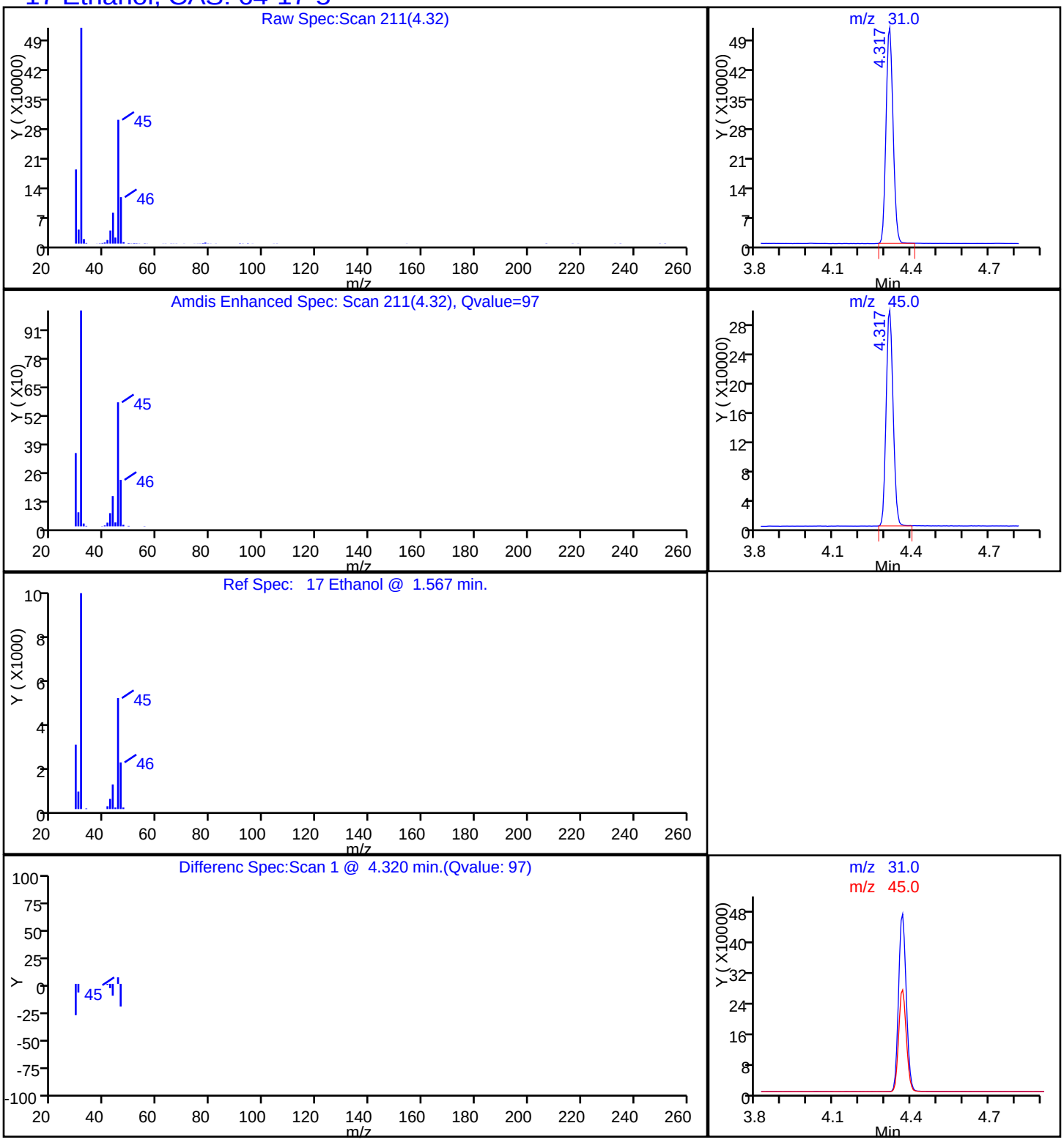


Report Date: 25-Mar-2014 07:24:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P112.D				
Injection Date:	24-Mar-2014 19:53:30	Instrument ID:	ME		
Lims ID:	140-1060-A-22	Lab Sample ID:	140-1060-22		
Client ID:	PCV-IA2-B20				
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.061	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.11	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.10	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.26	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.72		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.10	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	6.1		0.50	0.045
67-64-1	Acetone	58.08	2.2	J *	5.0	1.4
71-43-2	Benzene	78.11	0.33		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.038	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.063	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.14	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.048	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.39		0.20	0.068
64-17-5	Ethanol	46.07	36		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.58		0.20	0.068
142-82-5	Heptane	100.21	0.12	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.21	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.3	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.55		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	2.6		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	1.0		0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.046	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.51		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.18	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.47	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.24	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.48	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.77	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.51	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	25		2.0	0.18
67-64-1	Acetone	58.08	5.3	J *	12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.12	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.68	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	1.9		0.99	0.34
64-17-5	Ethanol	46.07	68		3.8	3.8
100-41-4	Ethylbenzene	106.17	2.5		0.87	0.30
142-82-5	Heptane	100.21	0.49	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.75	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.2	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.9		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	11		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	4.5		0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.31	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.0	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA3-B20 Lab Sample ID: 140-1060-23

Matrix: Air Lab File ID: JC21P104.D

Analysis Method: TO-15 Date Collected: 03/14/2014 17:01

Sample wt/vol: 332(mL) Date Analyzed: 03/21/2014 18:13

Soil Aliquot Vol: Dilution Factor: 1.66

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D
Lims ID: 140-1060-A-23 Lab Sample ID: 140-1060-23
Client ID: PCV-IA3-B20
Sample Type: Client
Inject. Date: 21-Mar-2014 18:13:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6600
Sample Info: 140-1060-a-23@1.66
Misc. Info.: J032114,TO15,,140-0000540-009
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 08:42:08 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:42:08

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.376	9.379	-0.003	90	382763	4.00	
*	2 1,4-Difluorobenzene	114	11.528	11.530	-0.002	94	1767509	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.192	16.194	-0.002	87	1453805	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.811	17.814	-0.003	91	963832	3.75	
	7 Propene	41	3.975	3.972	0.003	98	48805	0.4158	
	8 Dichlorodifluoromethane	85	4.029	4.031	-0.002	100	59549	0.1571	
	9 Chloromethane	52	4.228	4.231	-0.003	97	9289	0.2157	
	14 Butadiene	54	4.513	4.516	-0.003	27	4197	0.0426	
	17 Ethanol	31	5.116	5.113	0.003	95	442430	14.4	
	19 2-Methylbutane	43	5.406	5.409	-0.003	91	46956	0.2888	
	20 Trichlorofluoromethane	101	5.638	5.640	-0.002	87	24110	0.0724	
	23 Acetone	58	5.767	5.769	-0.002	91	48530	0.8920	
	24 Isopropyl alcohol	45	5.853	5.844	0.009	96	75283	0.5240	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.576	-0.002	65	5651	0.0245	
	31 Methylene Chloride	84	6.751	6.753	-0.002	95	22366	0.2184	
	33 Carbon disulfide	76	6.929	6.931	-0.002	66	5494	0.0153	
	39 2-Butanone (MEK)	72	8.591	8.583	0.009	74	3780	0.1043	
	40 Hexane	56	8.629	8.631	-0.002	88	8727	0.0848	
	43 Chloroform	83	9.382	9.389	-0.007	27	12353	0.0554	
	48 Benzene	78	11.017	11.014	0.003	95	40336	0.1330	
	49 Cyclohexane	69	11.028	11.025	0.003	29	1154	0.0193	
	50 Carbon tetrachloride	117	11.039	11.046	-0.007	87	6293	0.0251	
	53 Isooctane	57	11.754	11.756	-0.002	87	21404	0.0413	
	54 n-Heptane	71	12.115	12.117	-0.002	80	5101	0.0476	
	62 4-Methyl-2-pentanone (MIBK)	43	13.363	13.365	-0.002	98	453529	2.45	
	65 Toluene	91	14.245	14.247	-0.002	92	54965	0.2038	
	73 Tetrachloroethene	129	15.380	15.377	0.003	60	2292	0.0182	
	76 Ethylbenzene	91	16.526	16.523	0.003	97	69466	0.2332	
	78 m-Xylene & p-Xylene	91	16.676	16.684	-0.008	99	247947	1.03	
	82 o-Xylene	91	17.204	17.206	-0.002	97	101710	0.4174	
	88 4-Ethyltoluene	105	18.446	18.446	0.003	77	13391	0.0414	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.936	18.938	-0.002	86	22568	0.0799	

QC Flag Legend

Review Flags
M - Manually Integrated

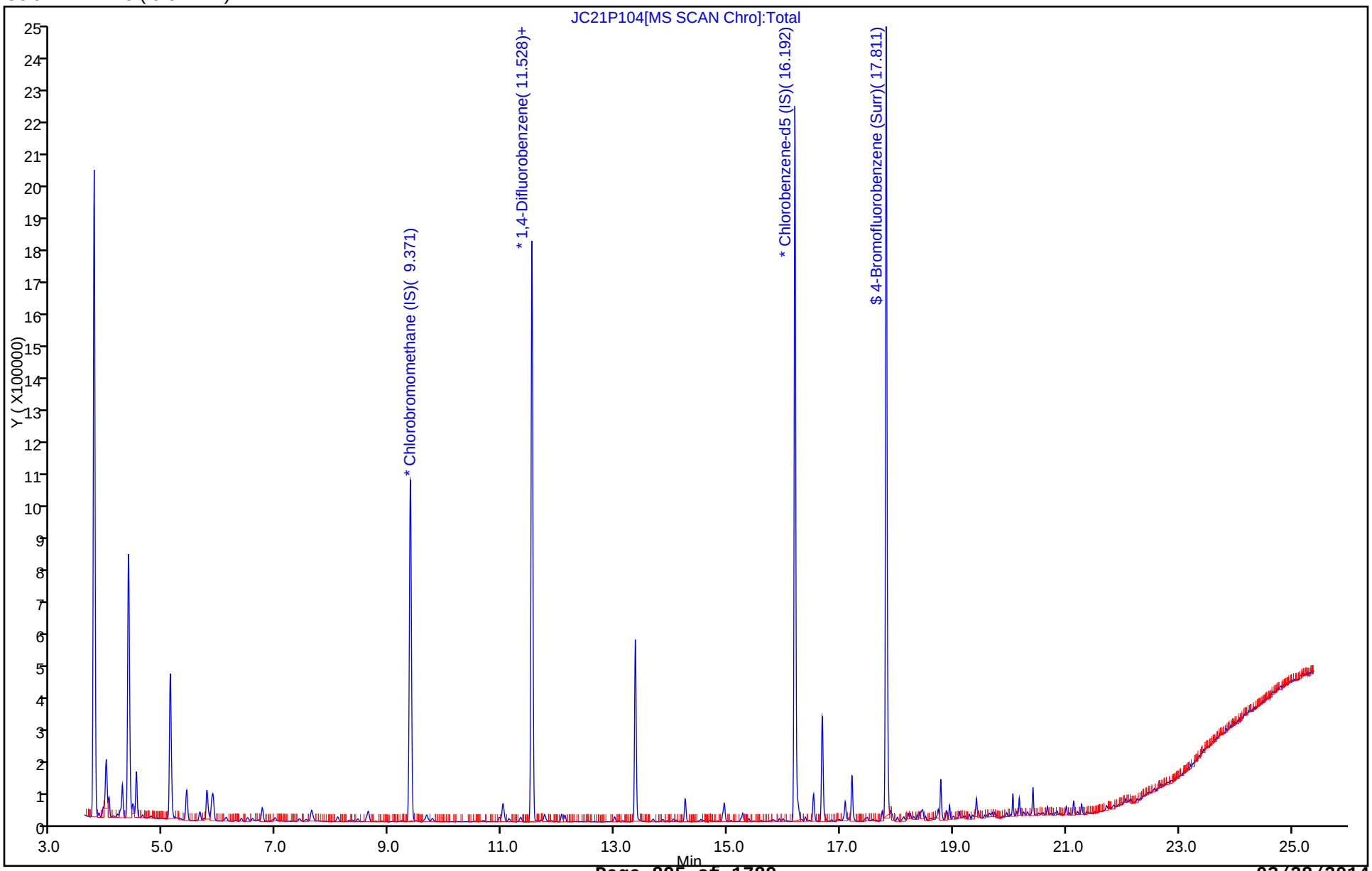
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23	Worklist Smp#:	9
Client ID:	PCV-IA3-B20				
Purge Vol:	500.000 mL	Dil. Factor:	1.6600	ALS Bottle#:	4
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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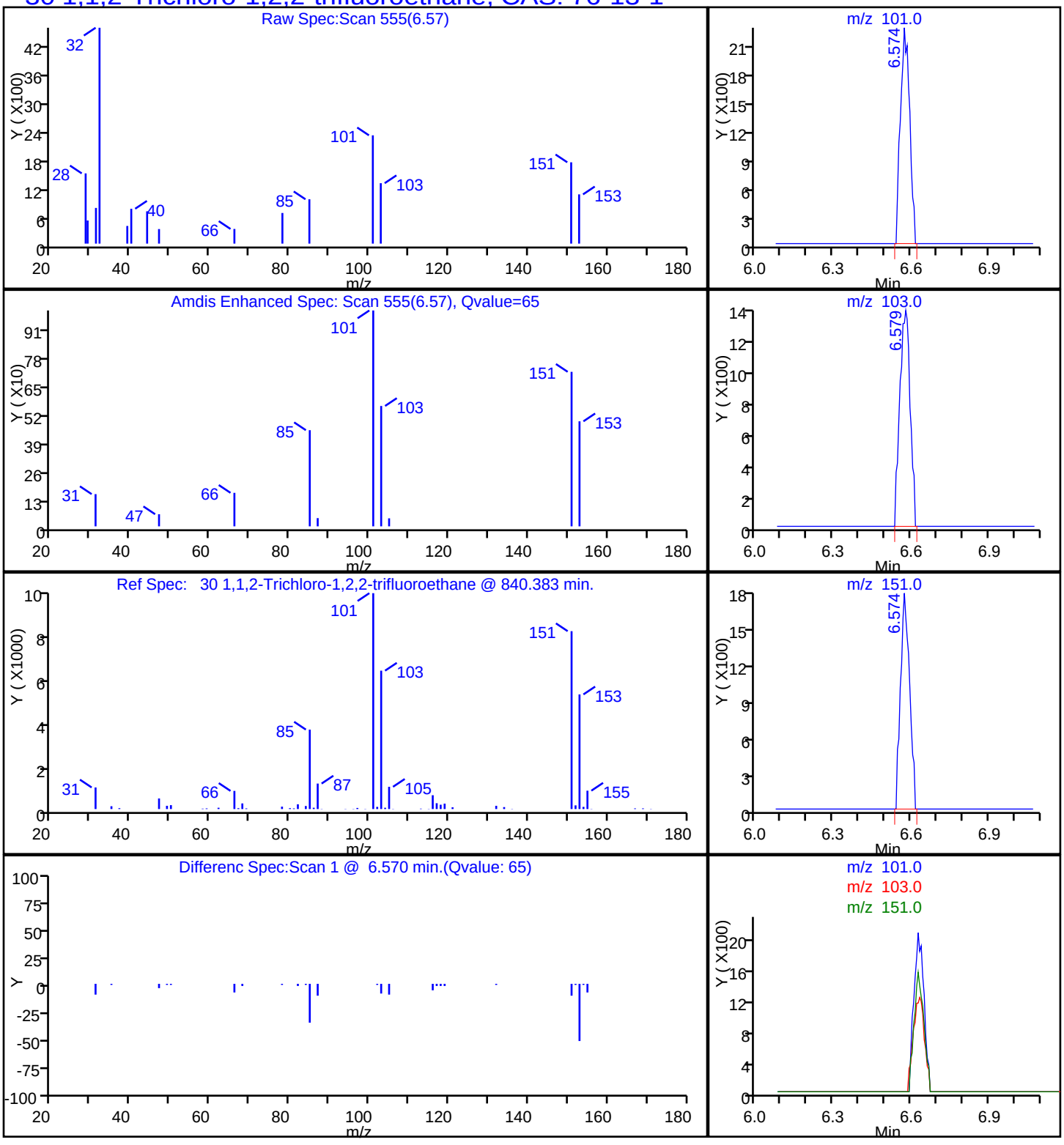
Injection Date: 21-Mar-2014 18:13:30 Instrument ID: MJ
Lims ID: 140-1060-A-23 Lab Sample ID: 140-1060-23
Client ID: PCV-IA3-B20
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6600
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



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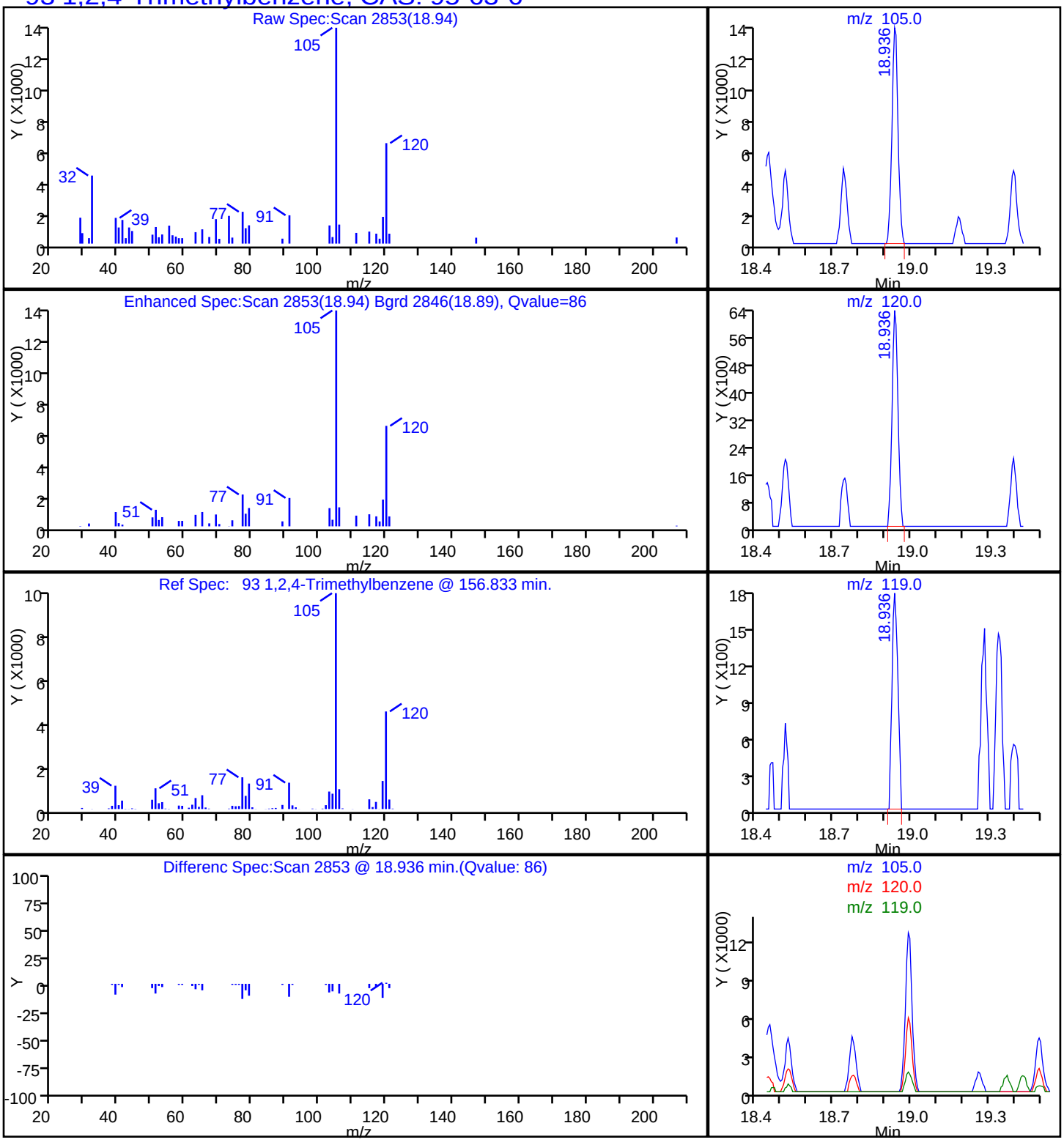
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23		
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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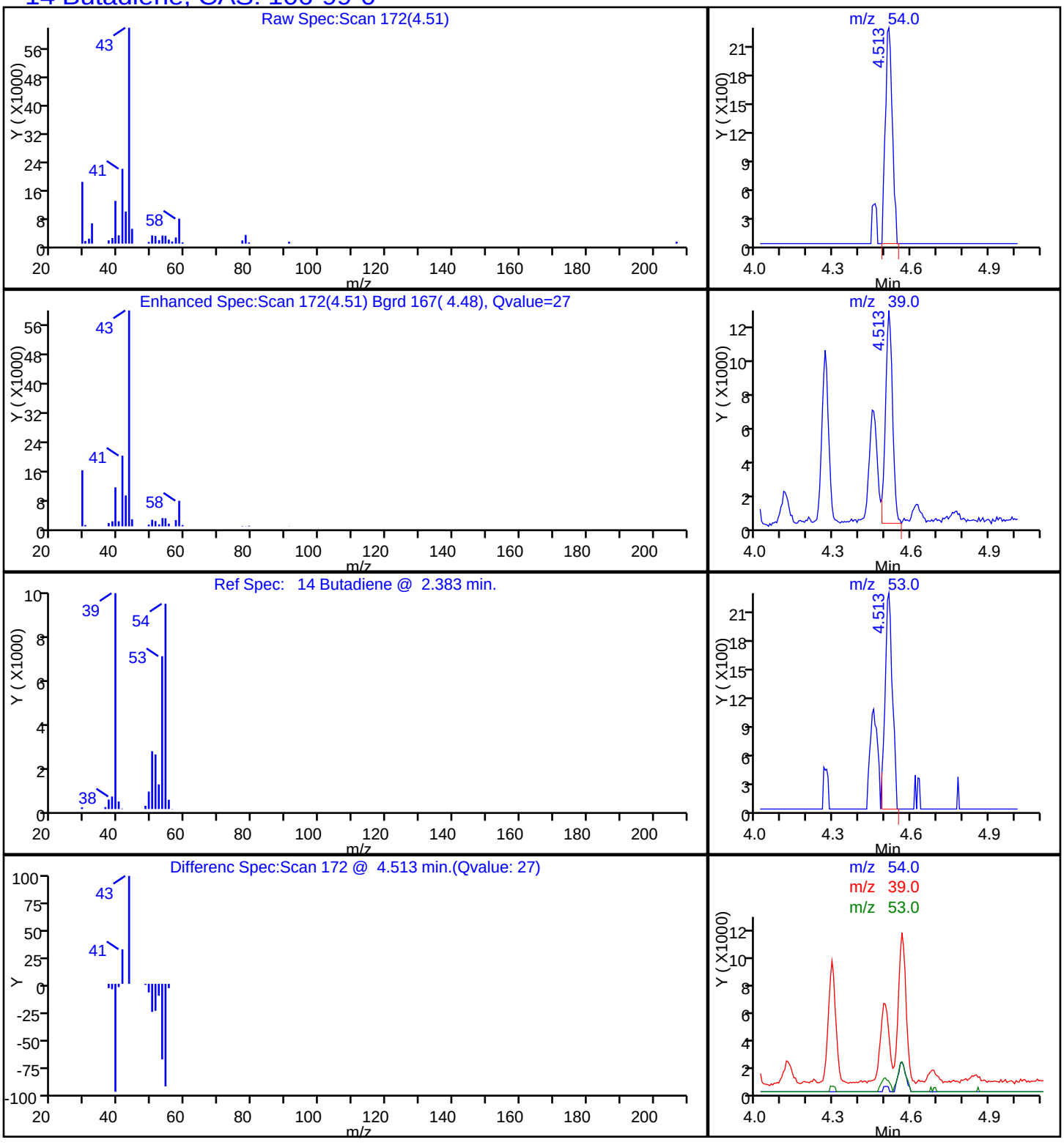
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

14 Butadiene, CAS: 106-99-0



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
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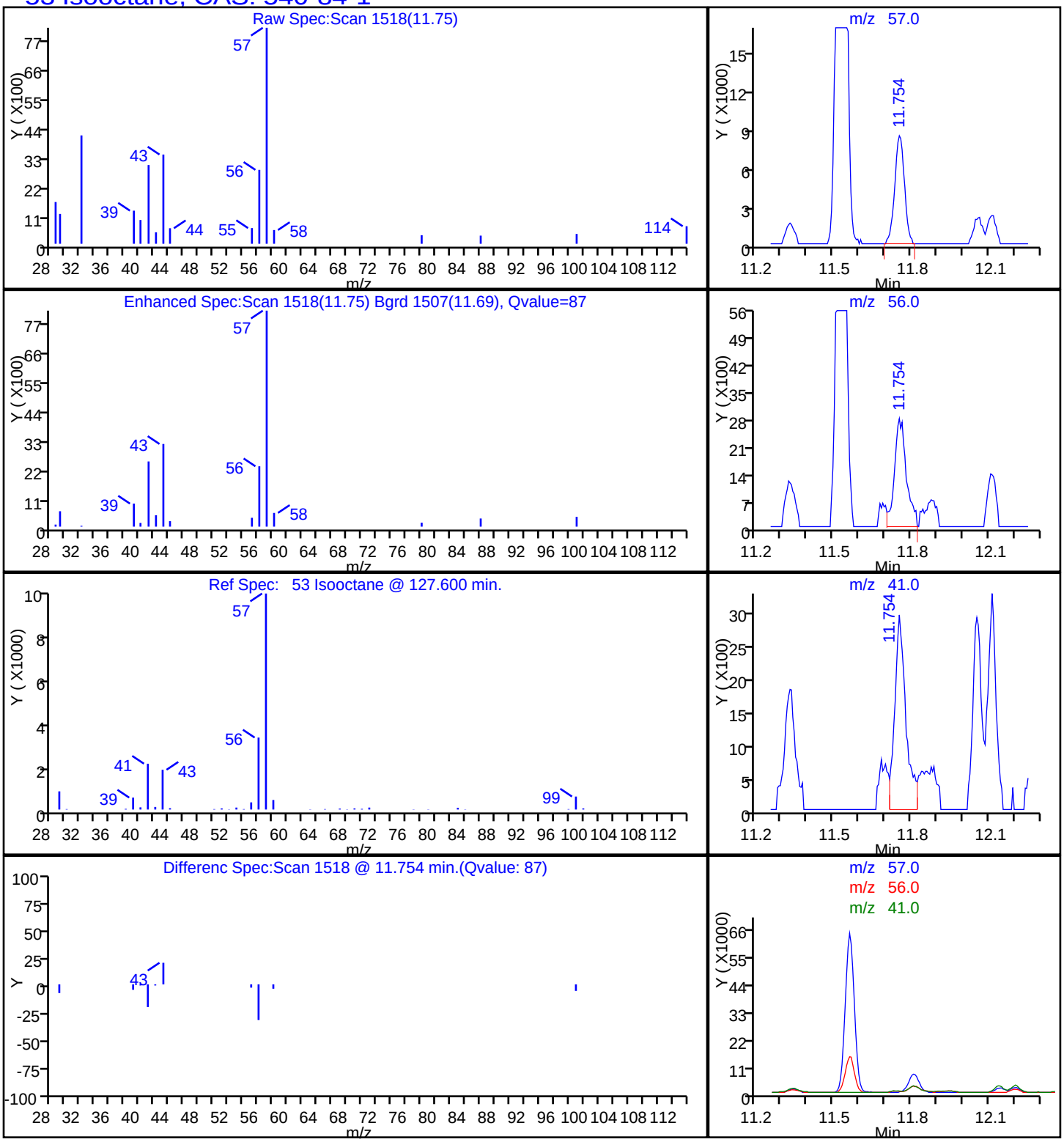
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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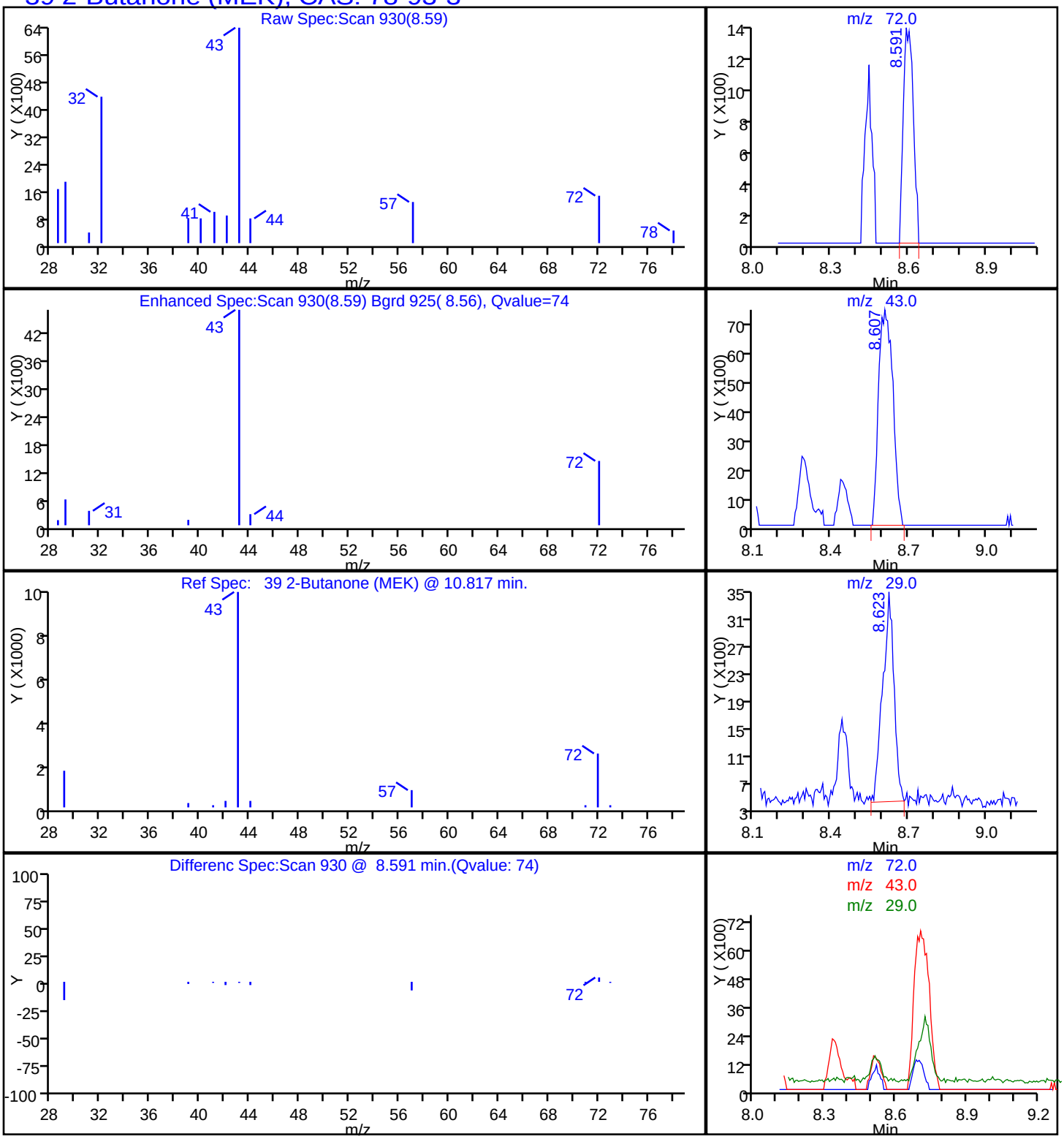
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
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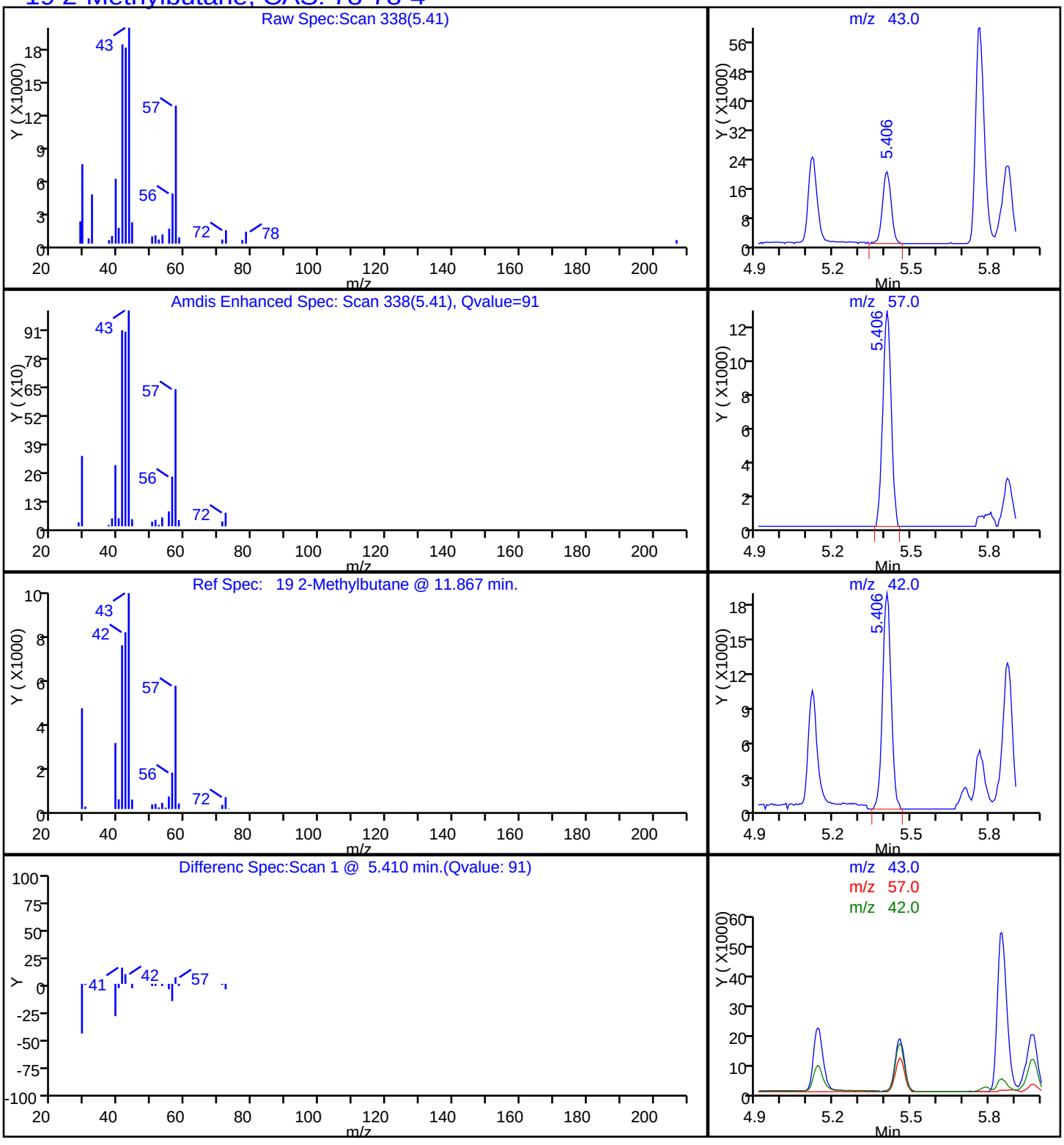
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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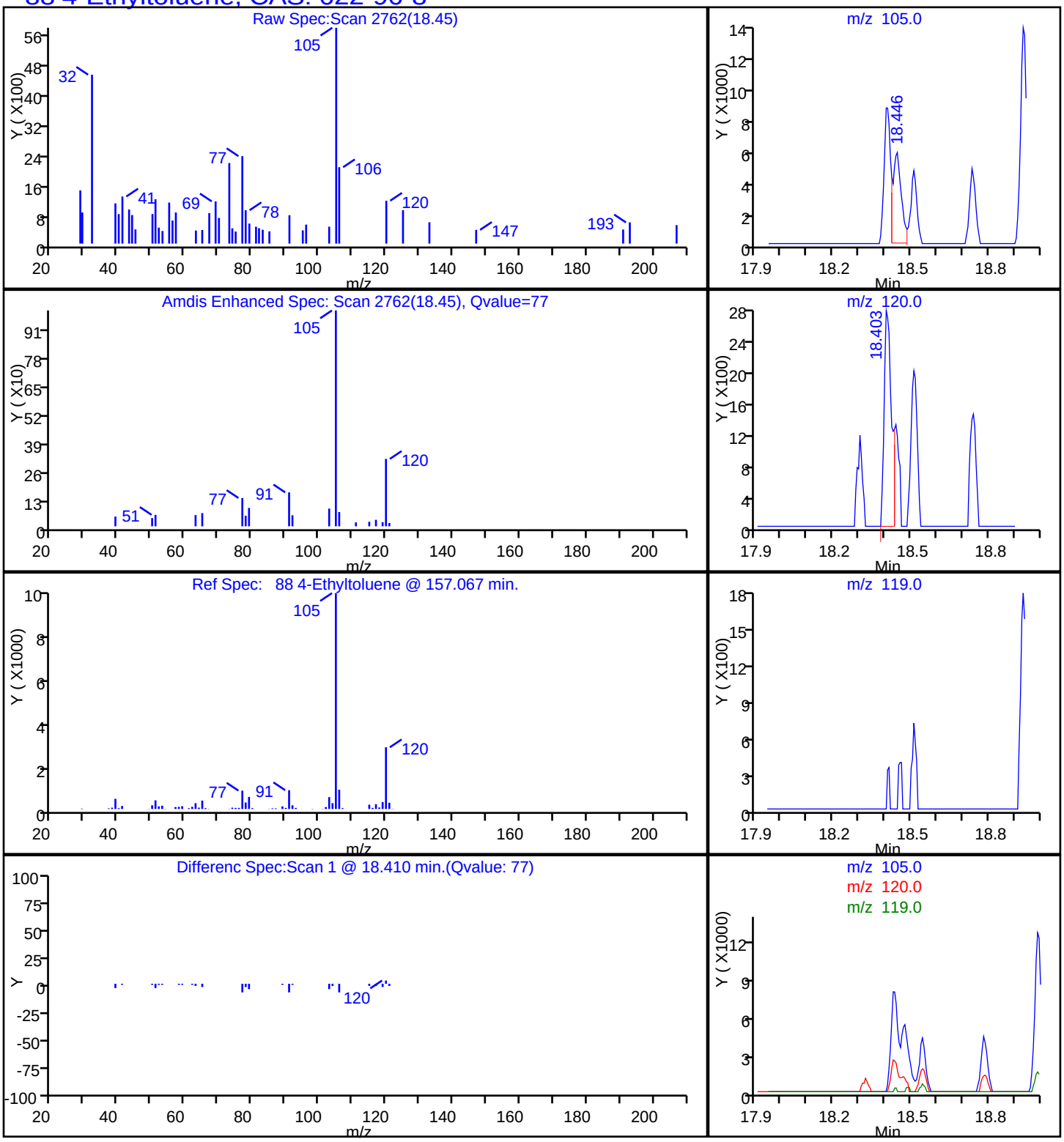
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23		
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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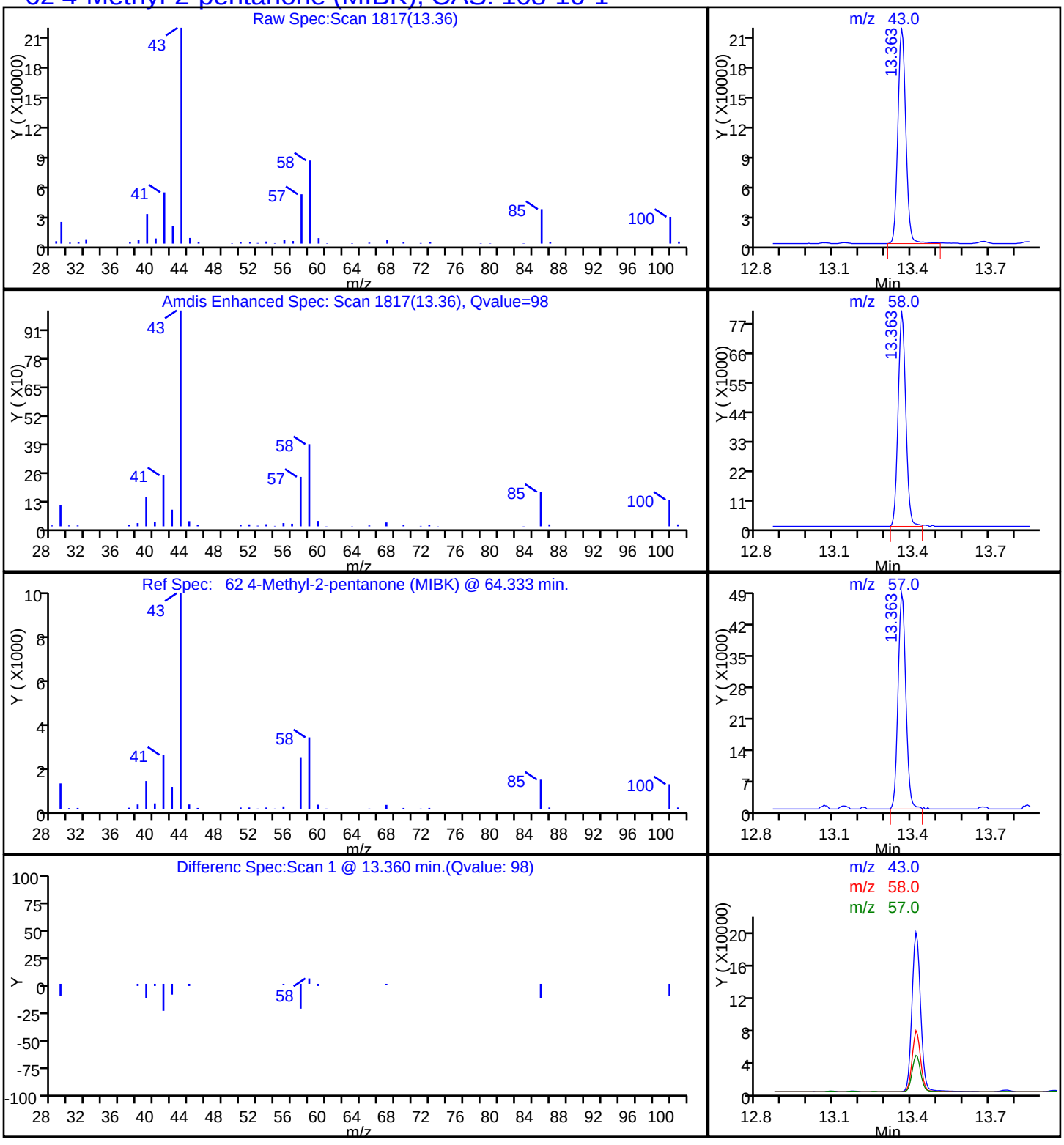
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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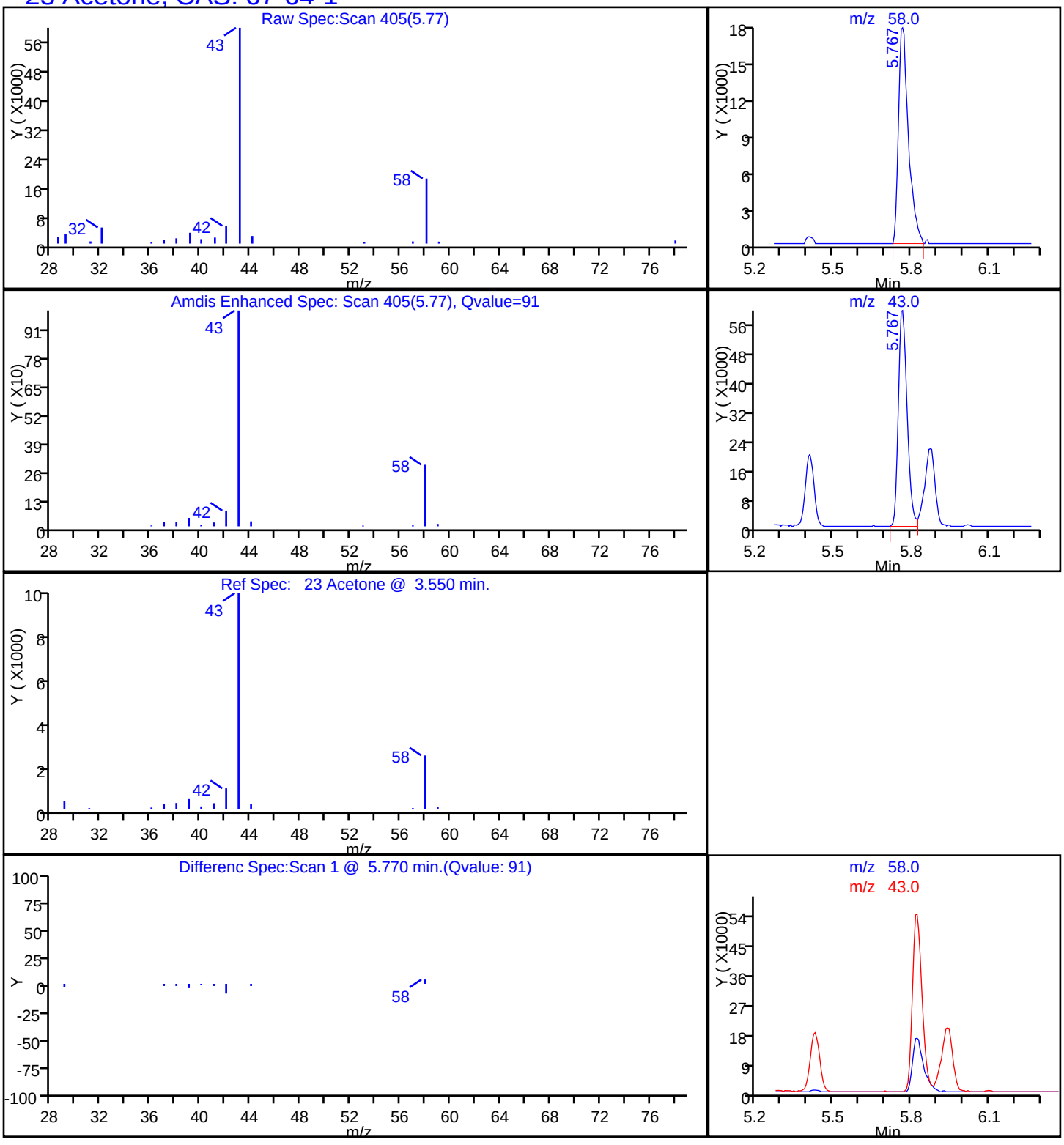
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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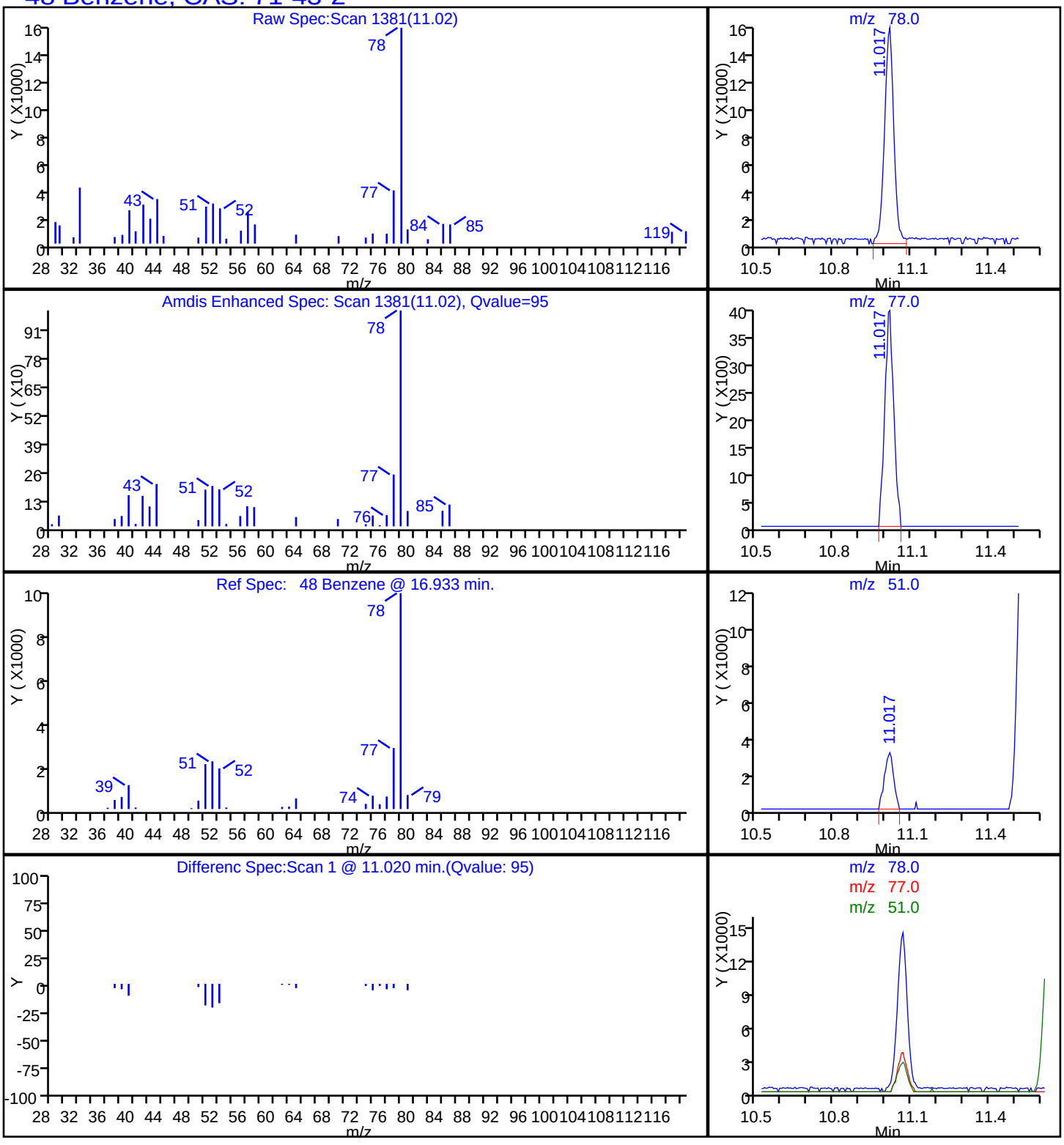
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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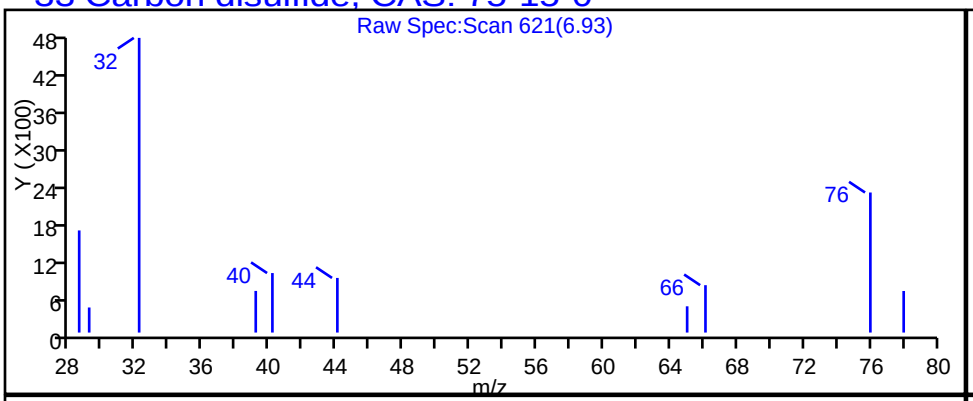
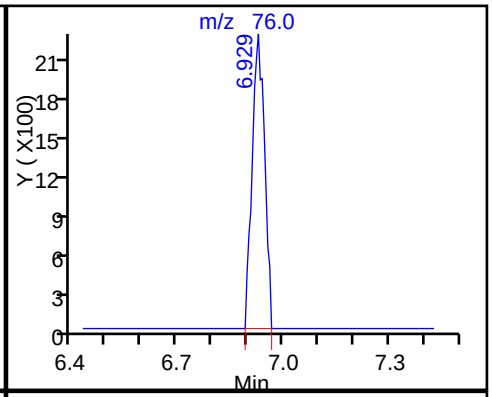
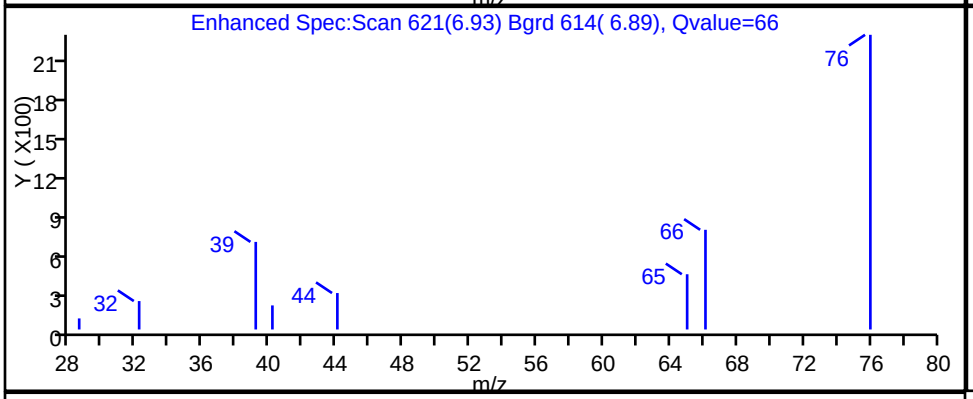
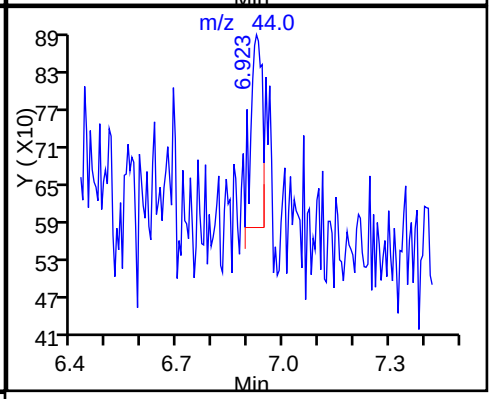
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

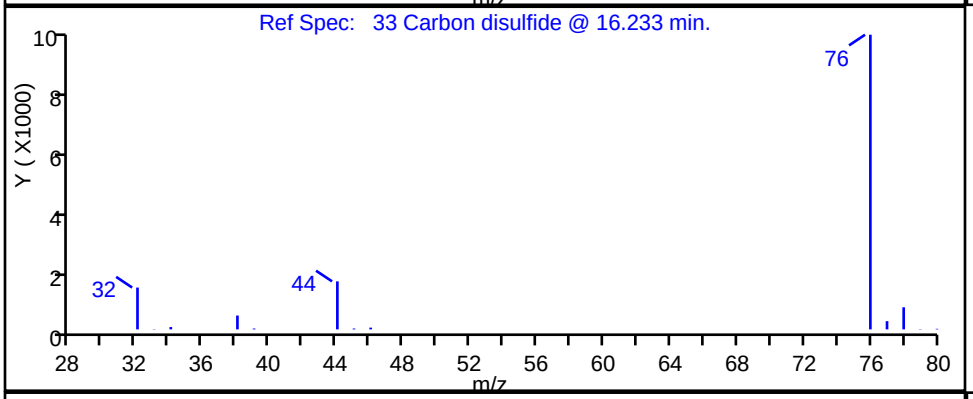
33 Carbon disulfide, CAS: 75-15-0

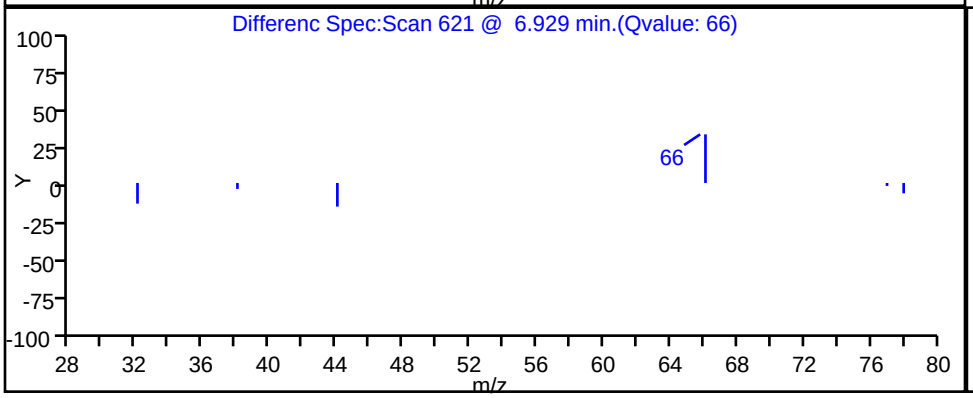


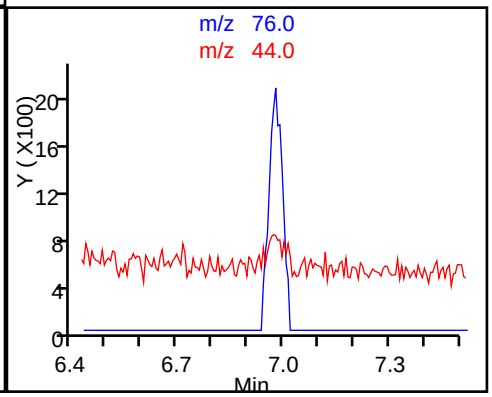












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Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
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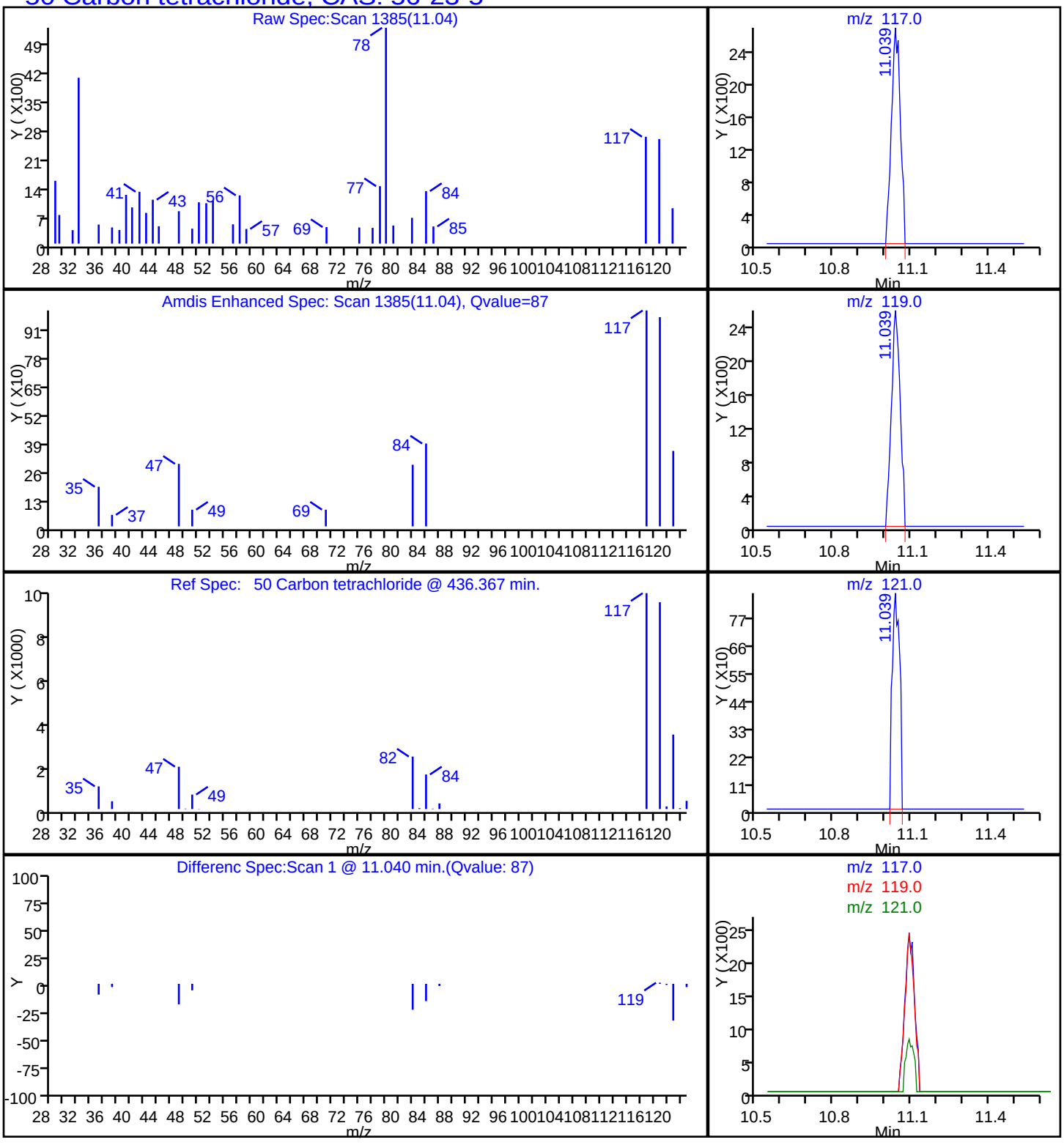
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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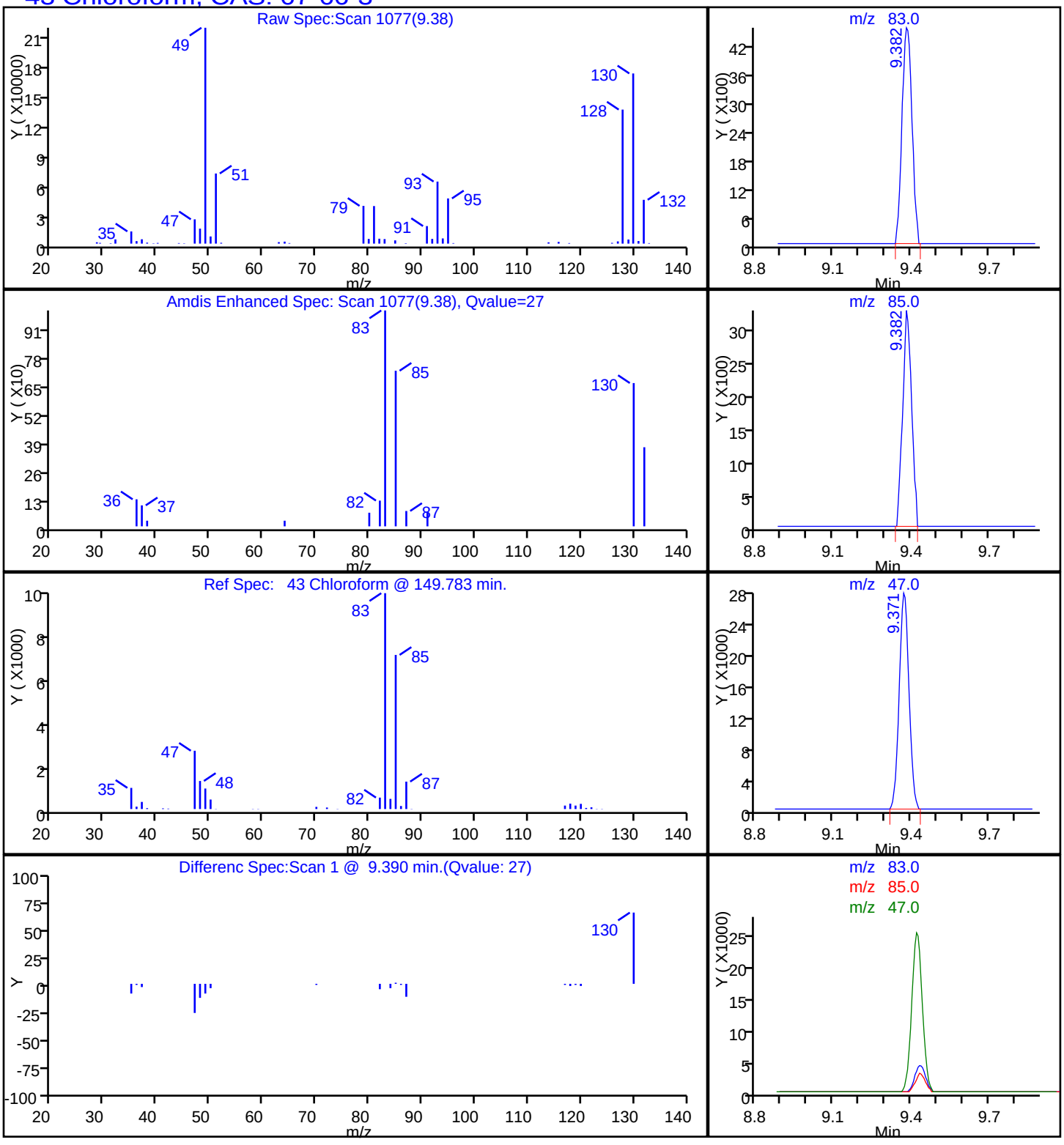
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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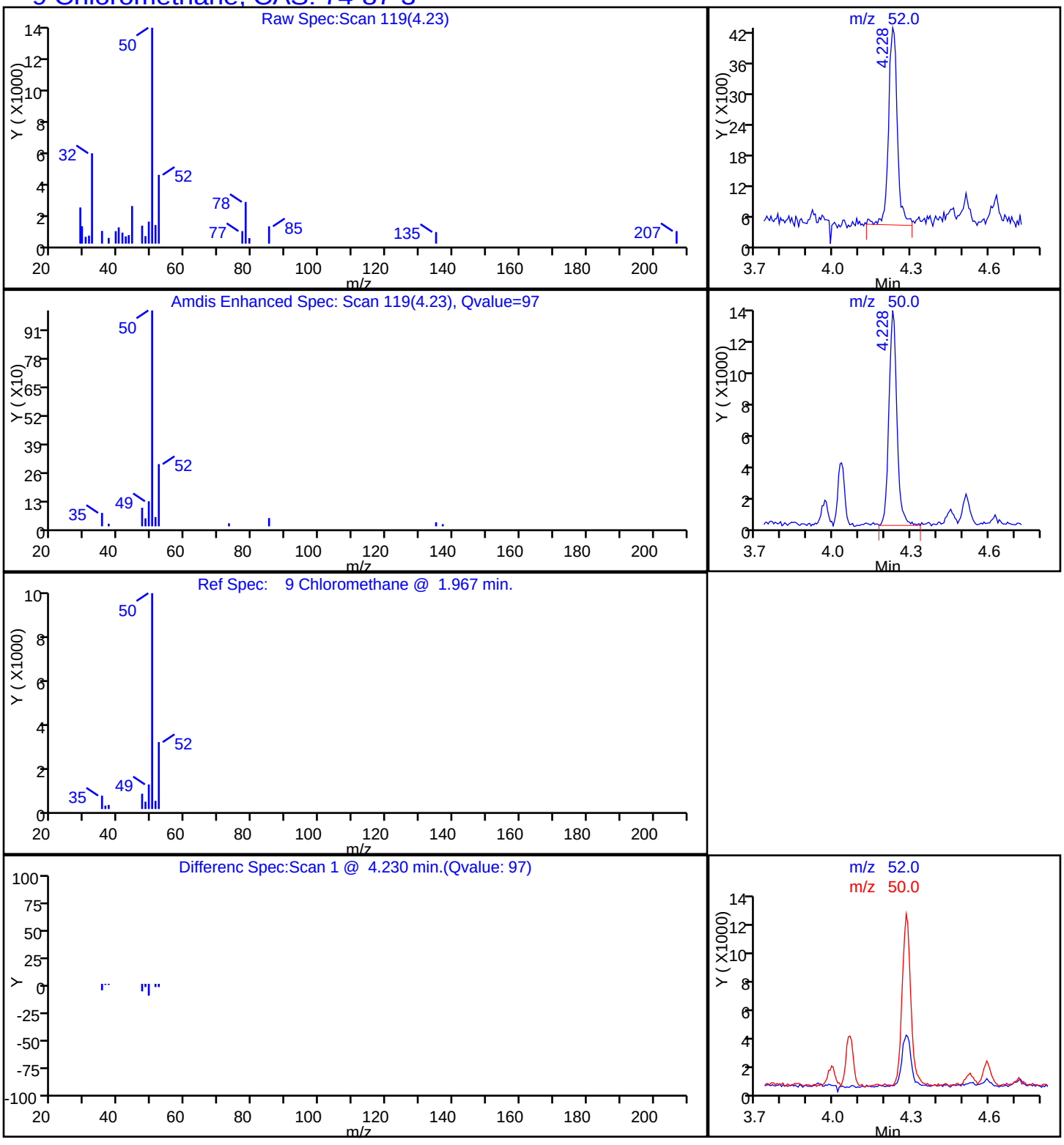
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



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Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
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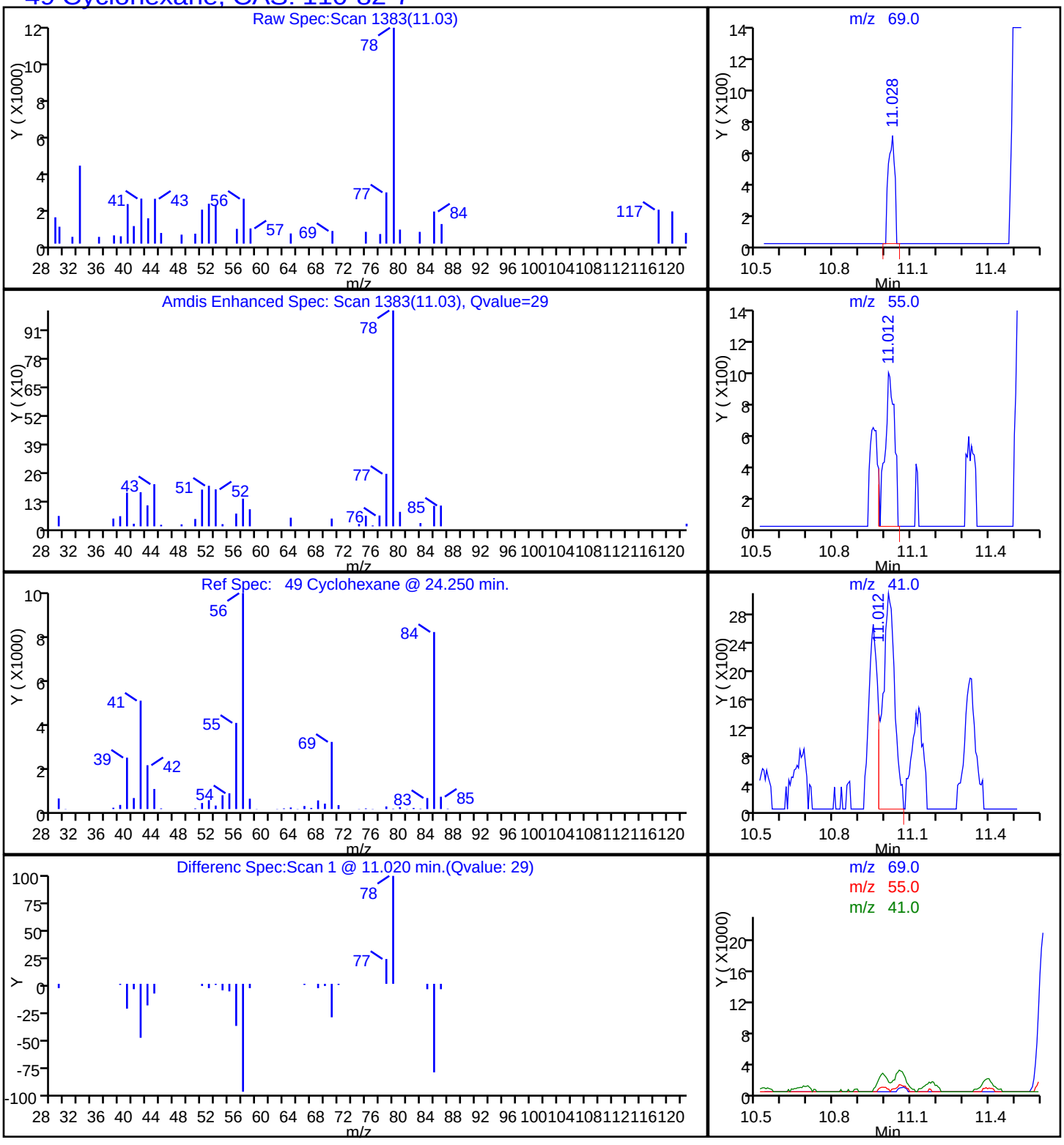
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



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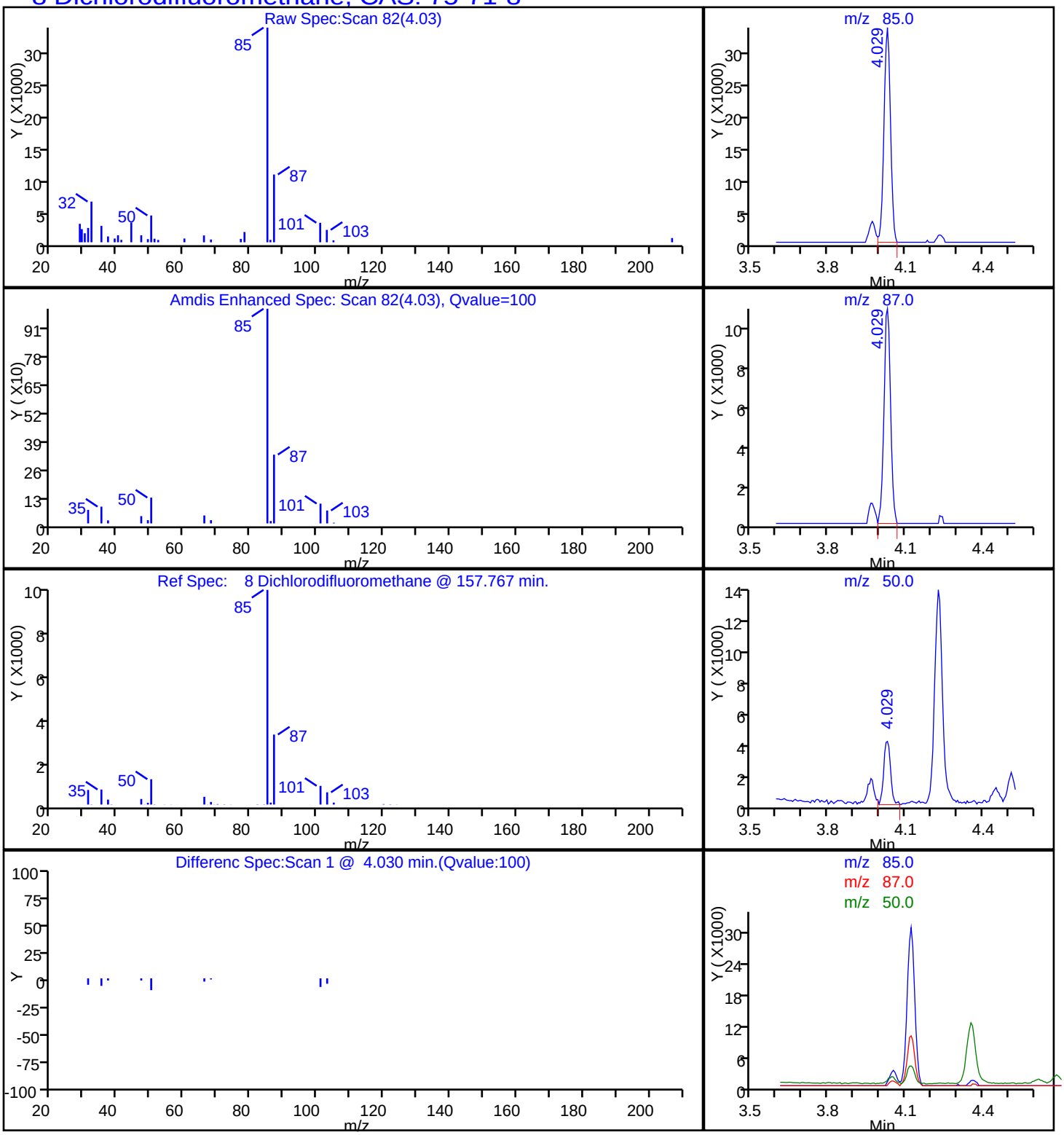
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
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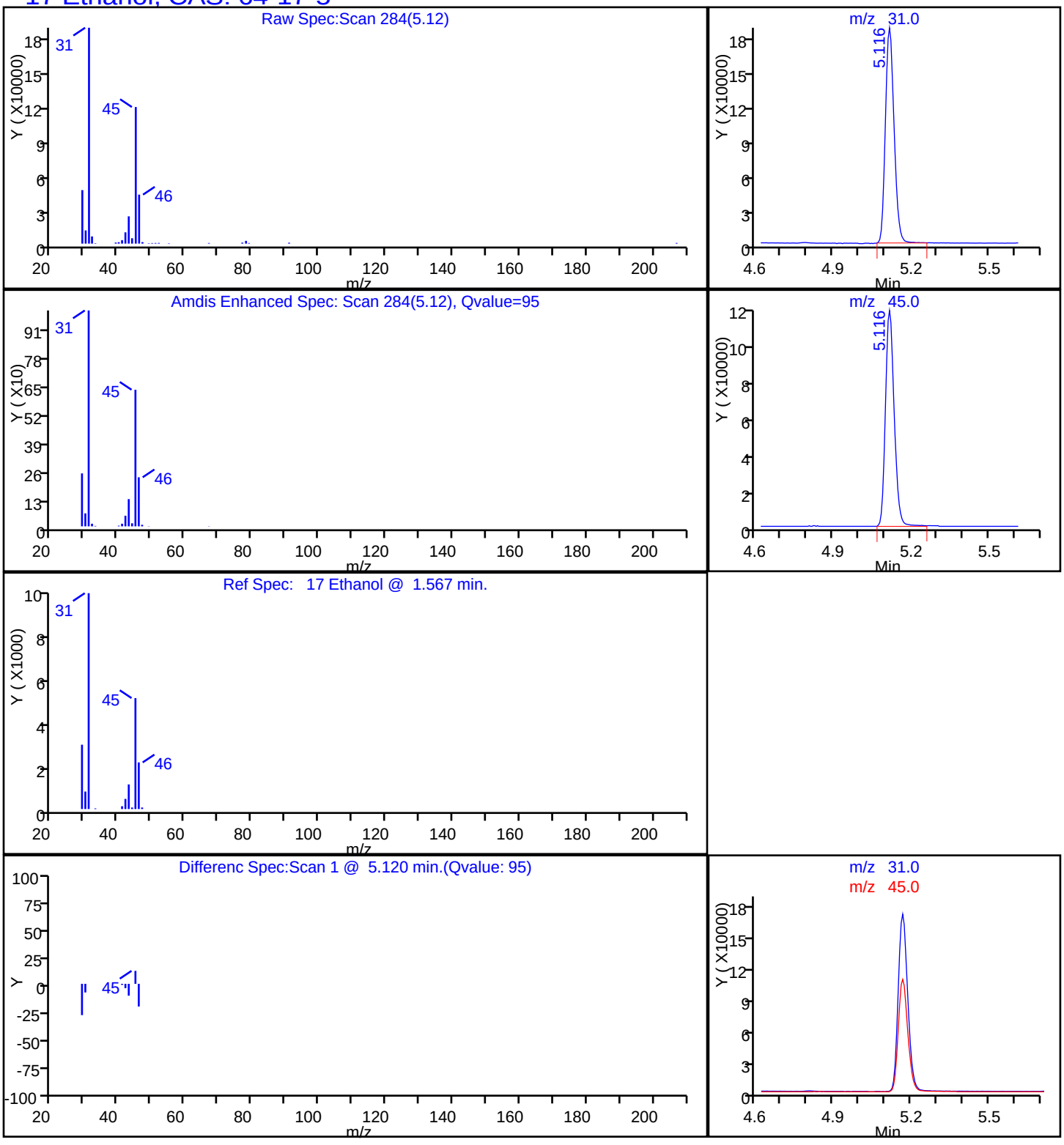
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



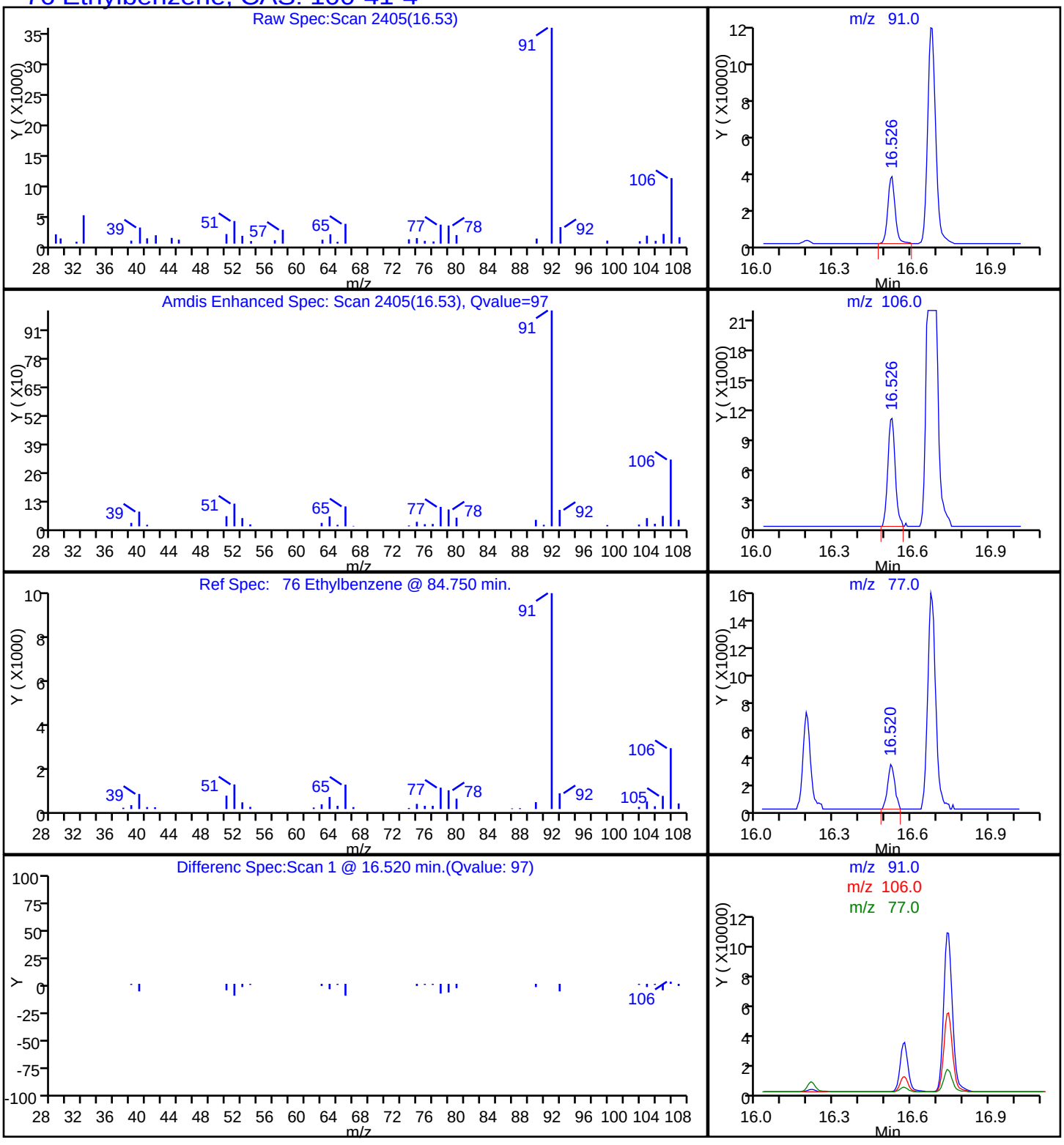
Report Date: 24-Mar-2014 08:42:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



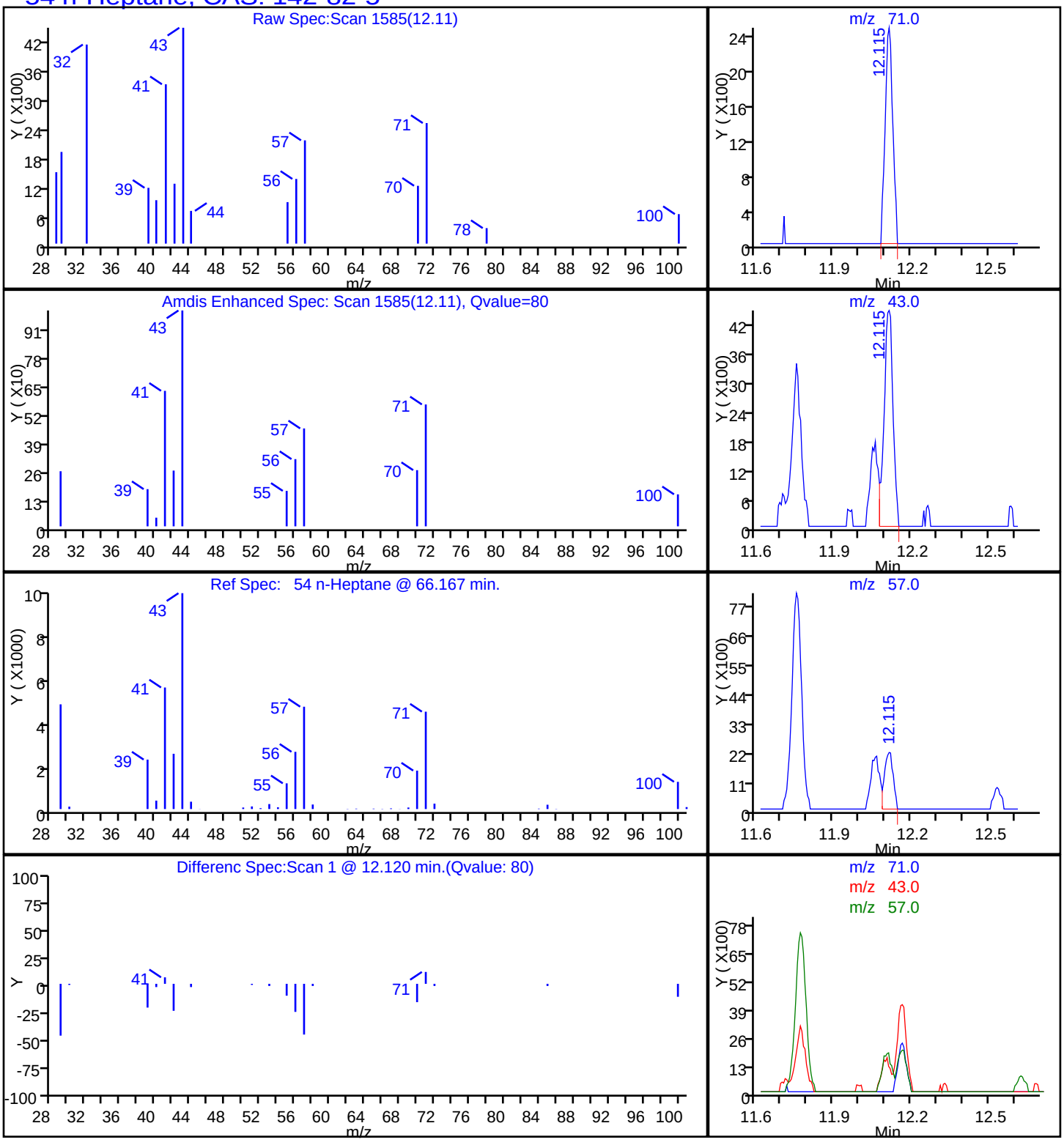
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



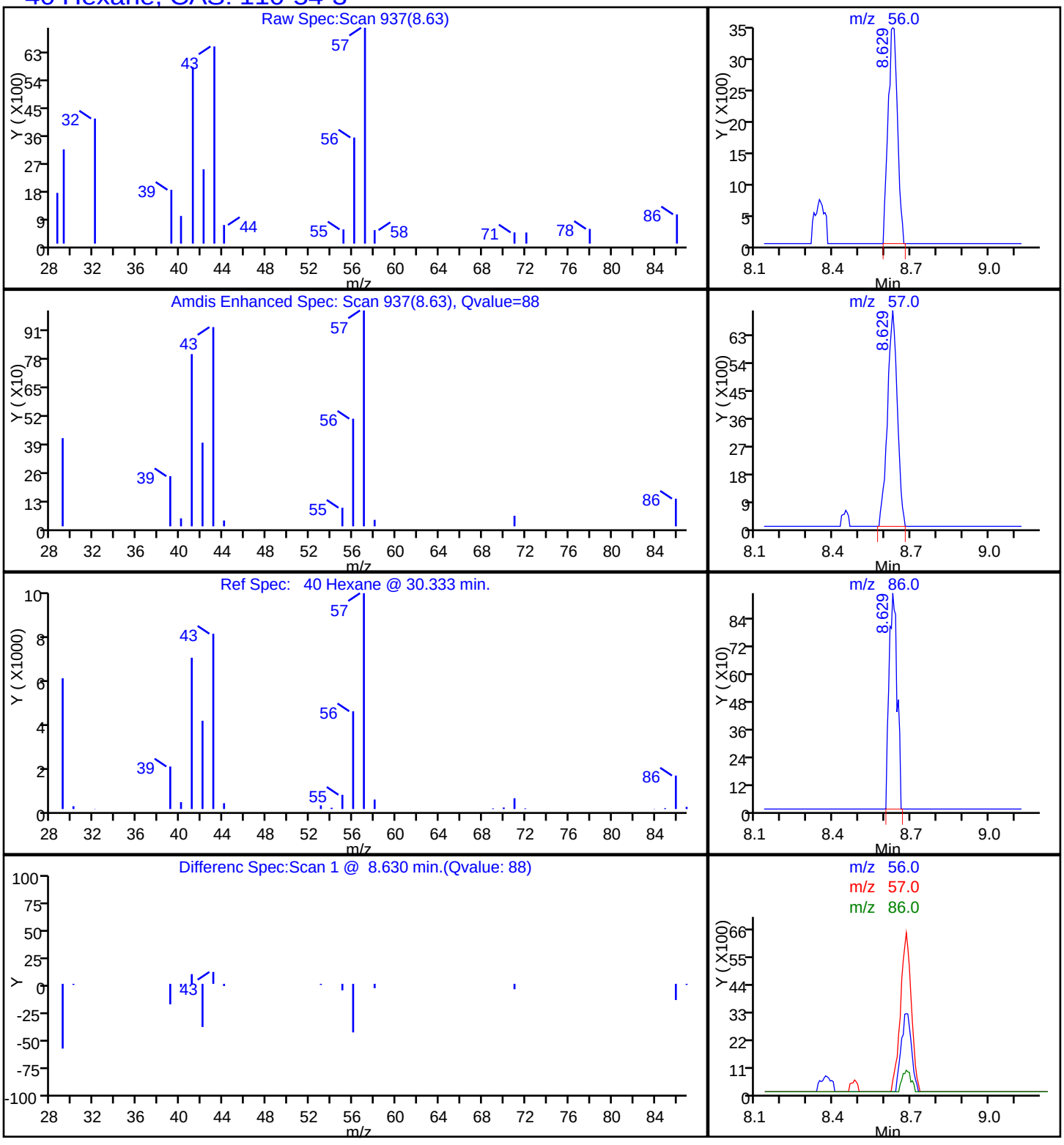
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23		
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

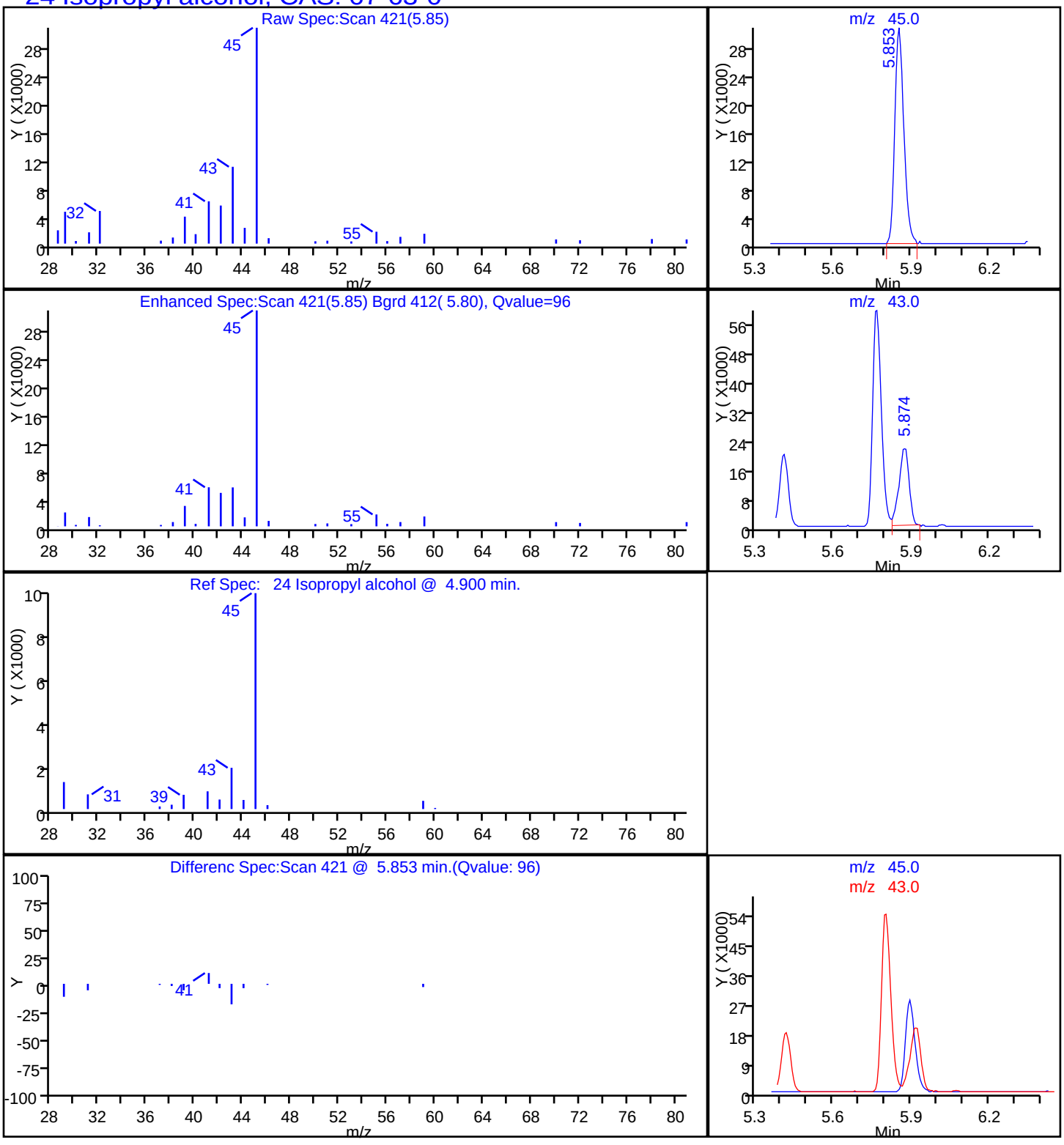


Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



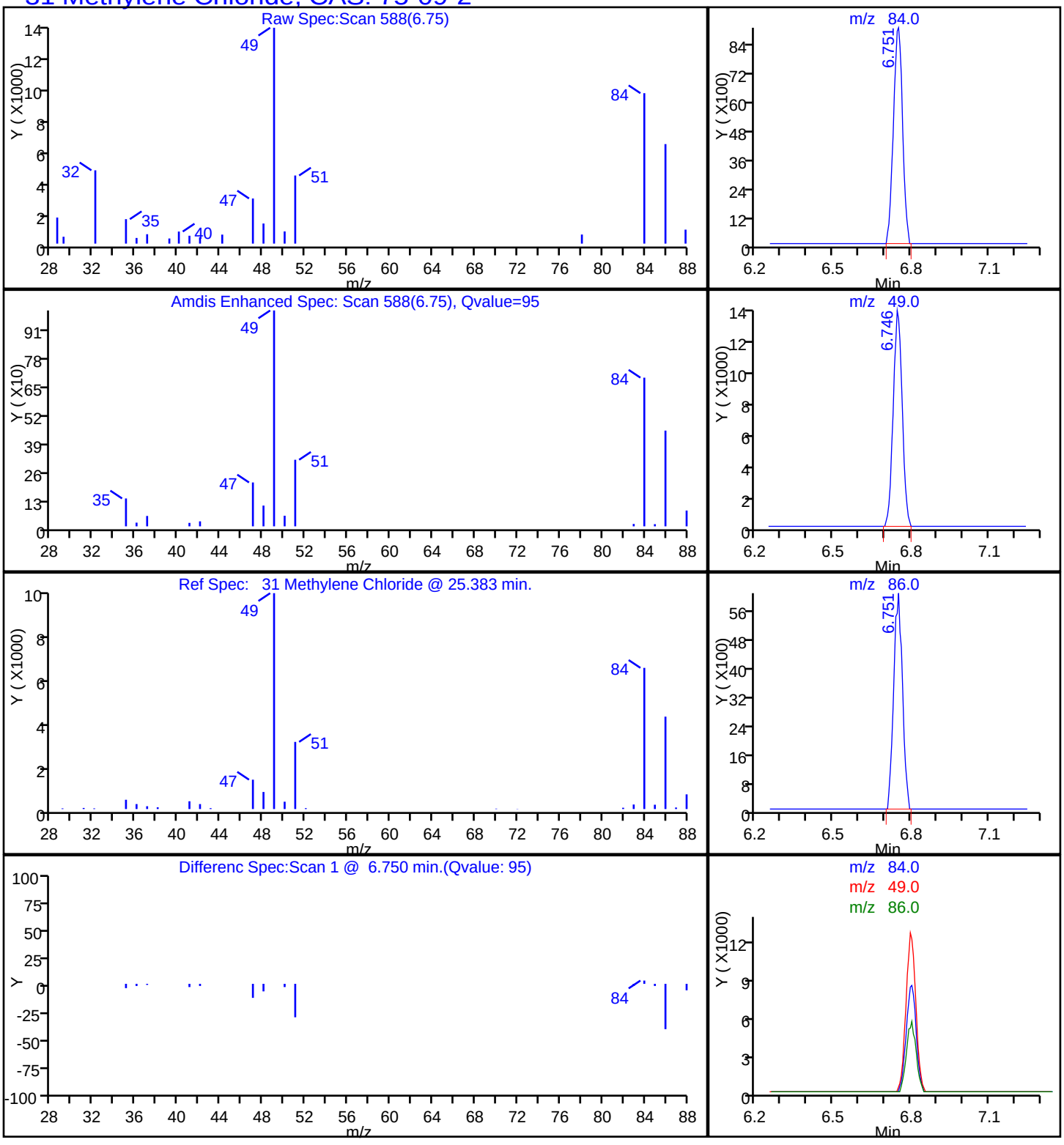
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2

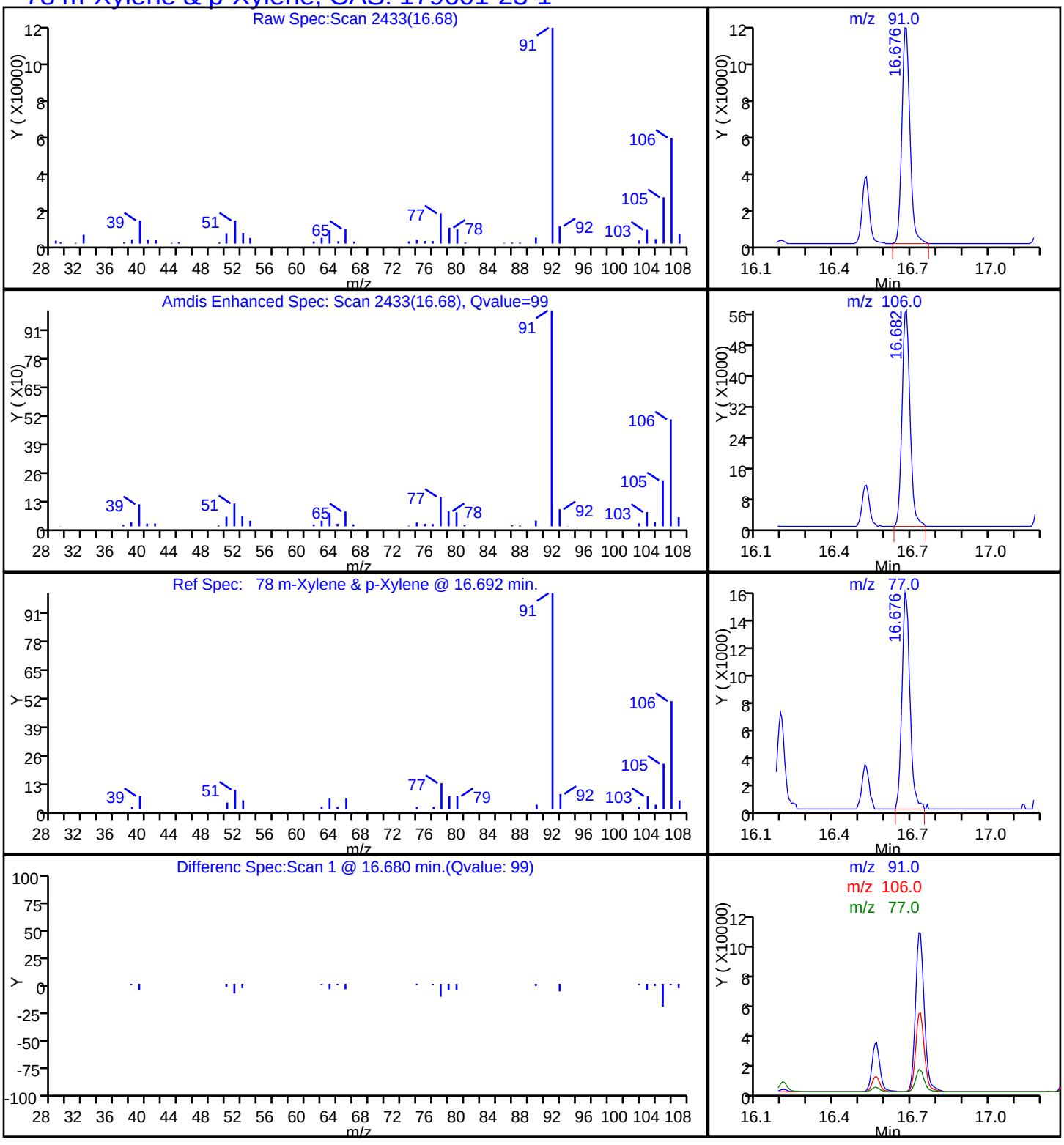


Report Date: 24-Mar-2014 08:42:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

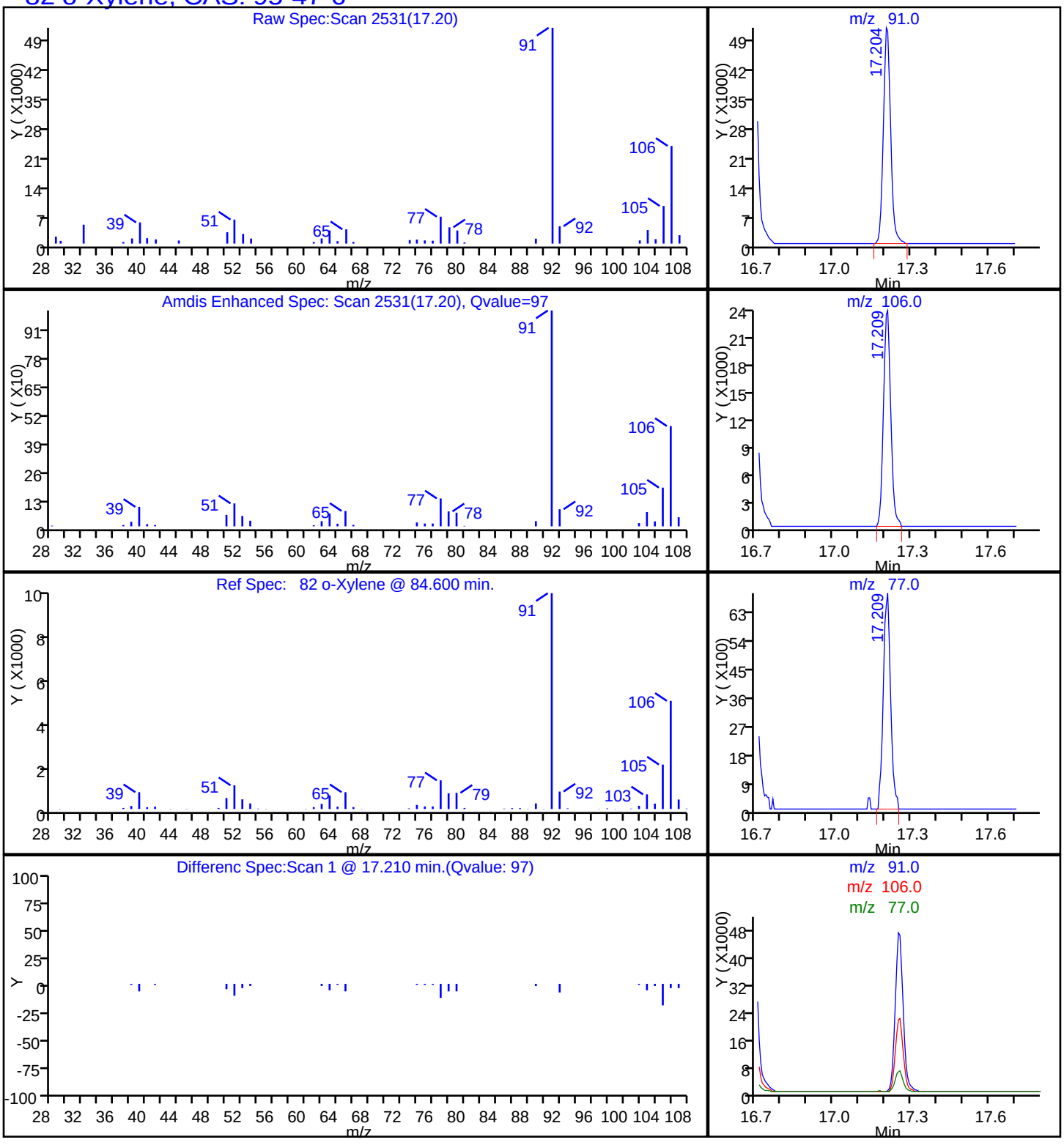


Report Date: 24-Mar-2014 08:42:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



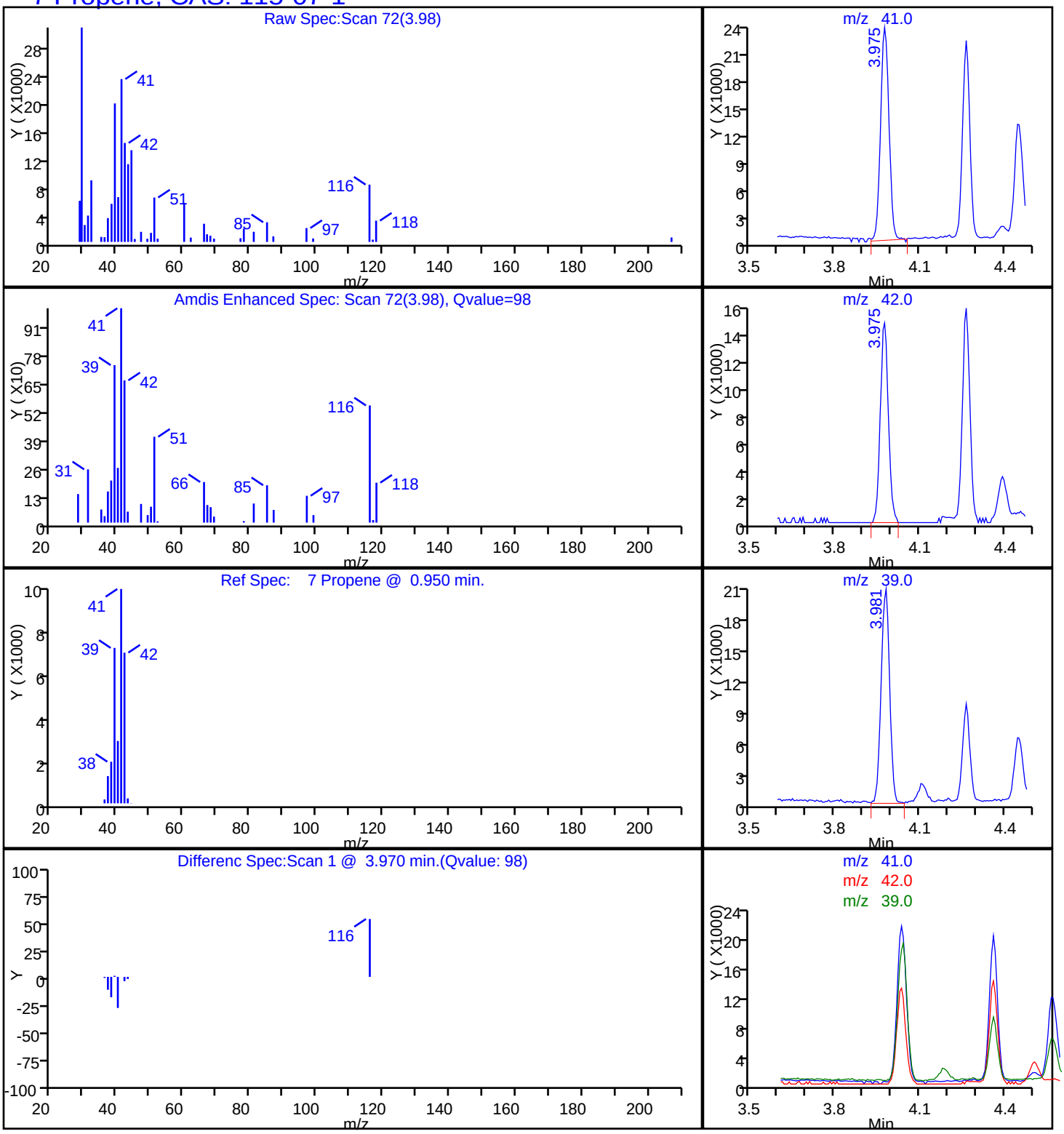
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 24-Mar-2014 08:42:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date: 21-Mar-2014 18:13:30 Instrument ID: MJ

Lims ID: 140-1060-A-23 Lab Sample ID: 140-1060-23

Client ID: PCV-IA3-B20

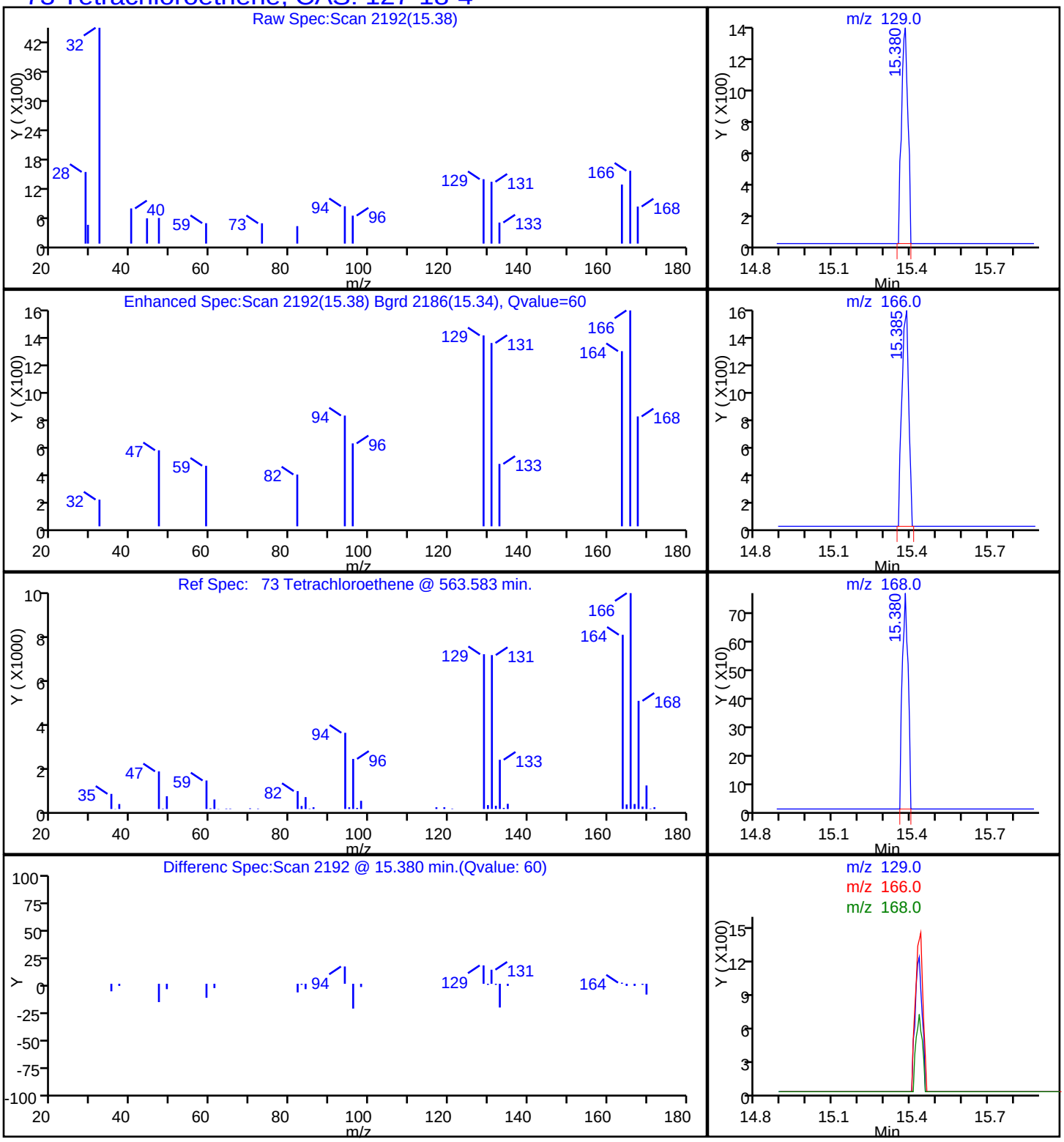
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.6600

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

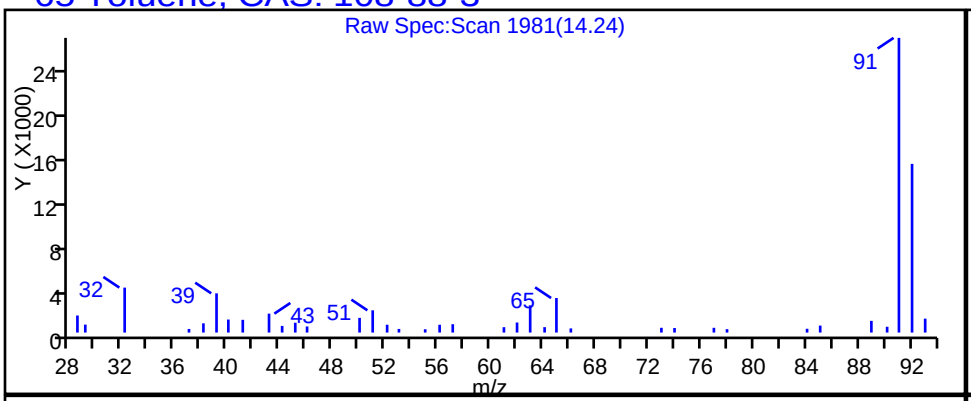


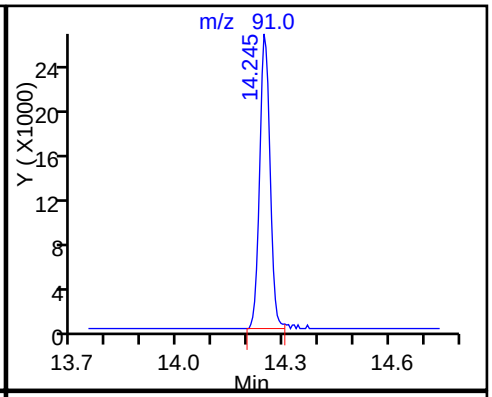
Report Date: 24-Mar-2014 08:42:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

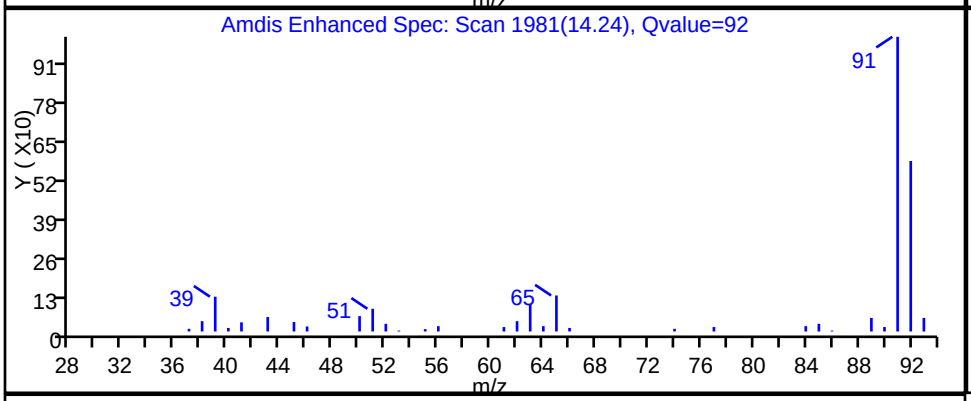
TestAmerica Knoxville

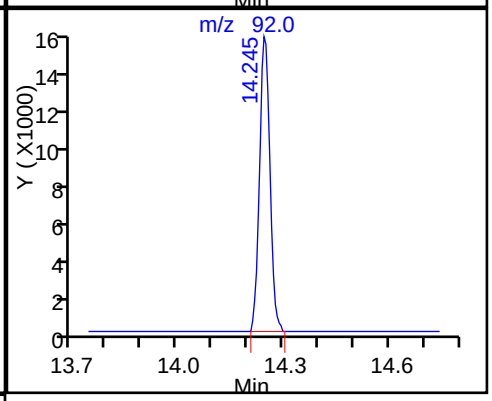
Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D		
Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

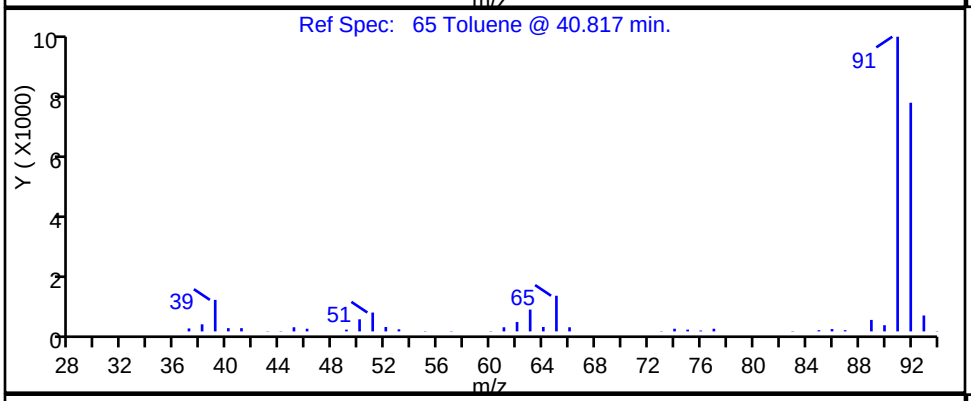
65 Toluene, CAS: 108-88-3

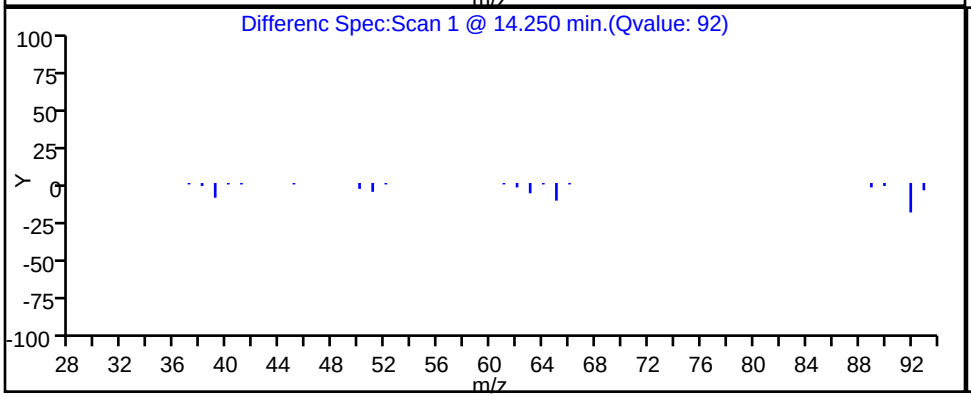


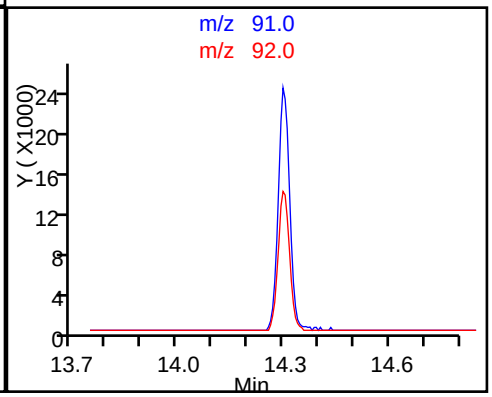












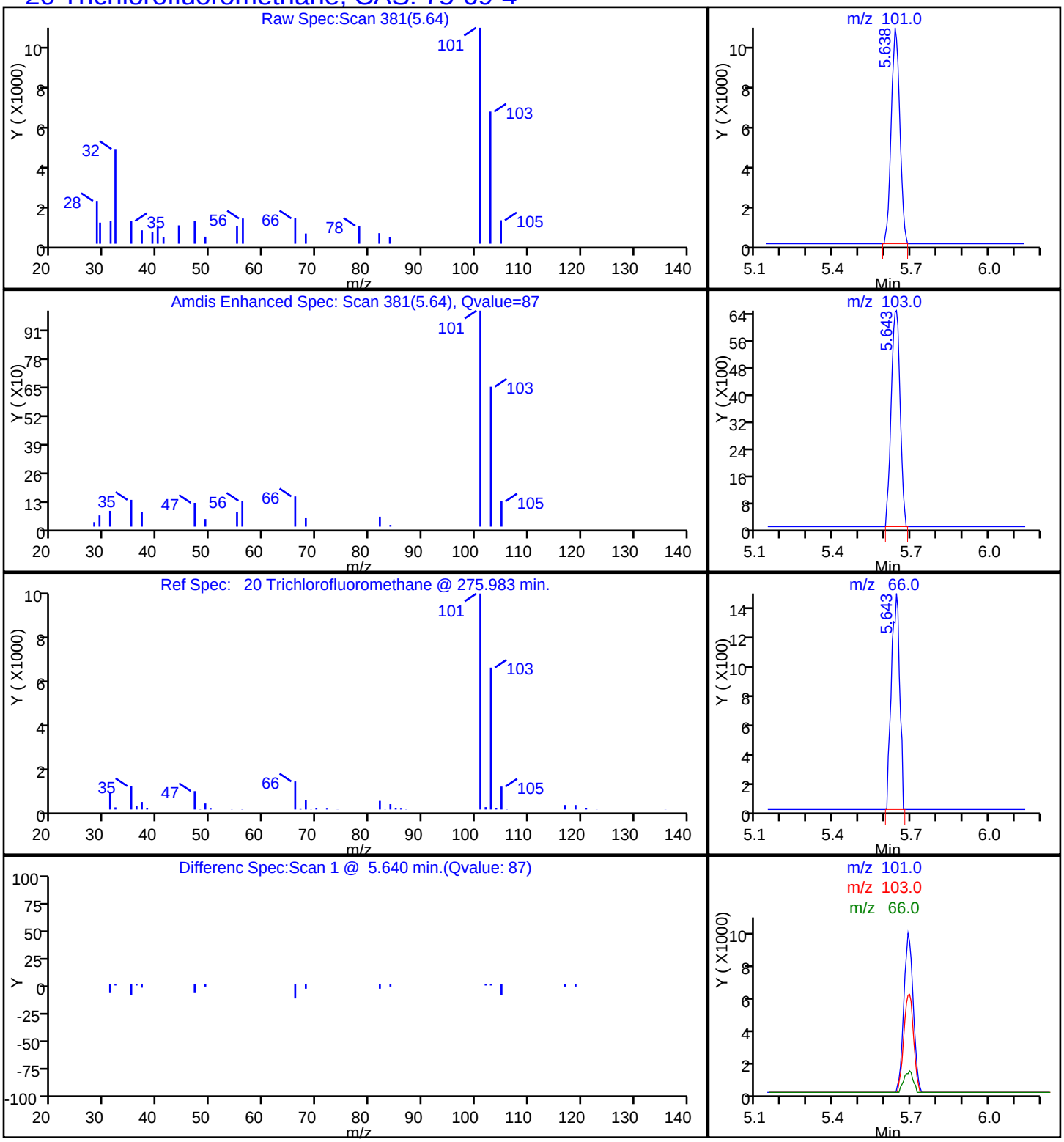
Report Date: 24-Mar-2014 08:42:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D

Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23
Client ID:	PCV-IA3-B20		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

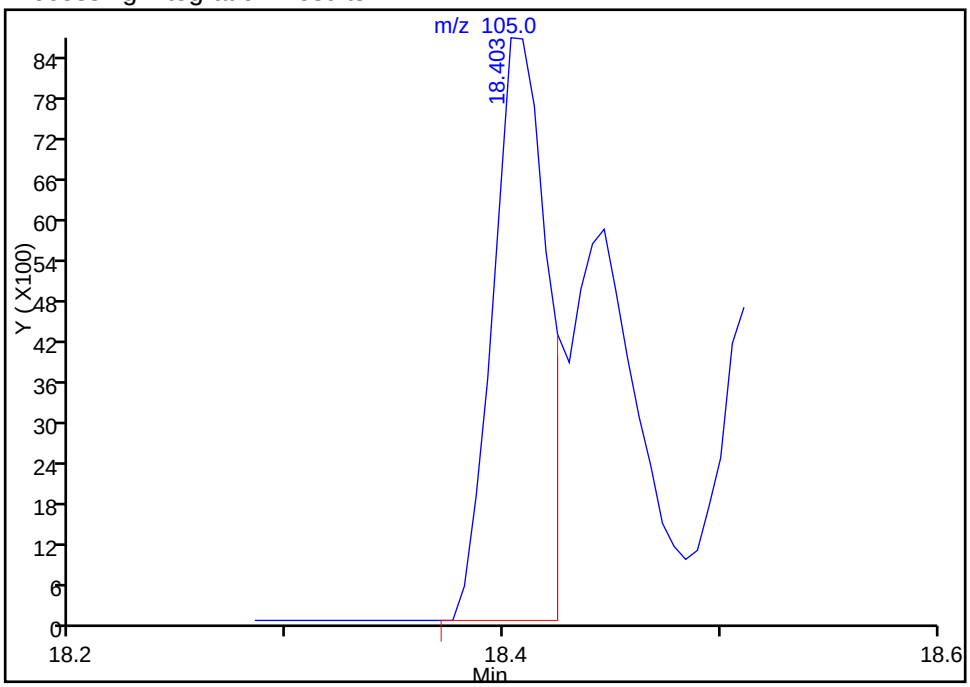
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P104.D				
Injection Date:	21-Mar-2014 18:13:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-23	Lab Sample ID:	140-1060-23		
Client ID:	PCV-IA3-B20				
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6600		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

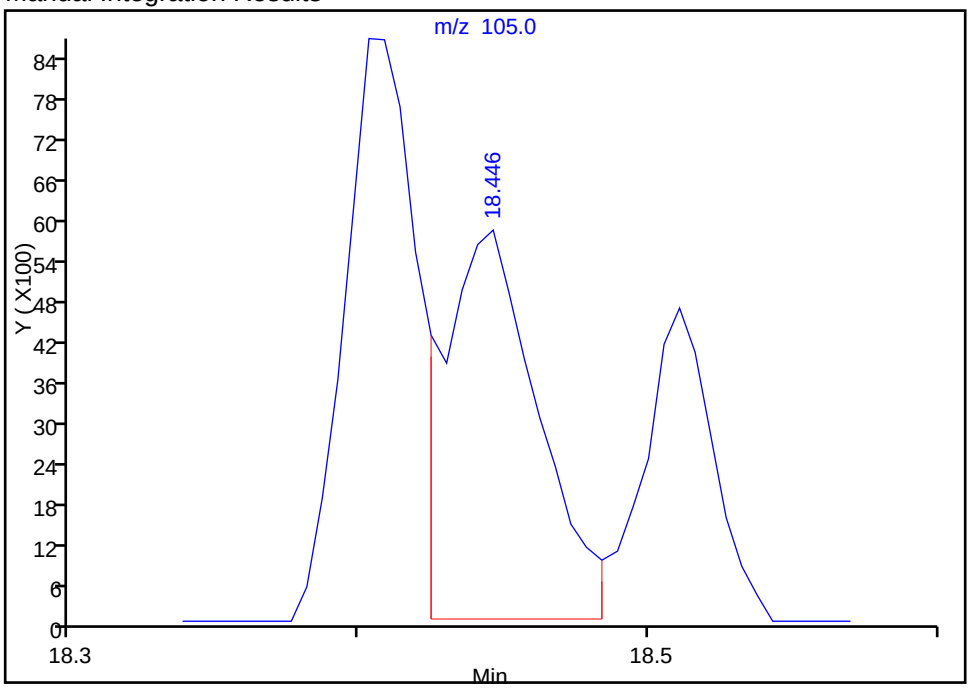
Processing Integration Results

RT: 18.40
Response: 15048
Amount: 0.046474



Manual Integration Results

RT: 18.45
Response: 13391
Amount: 0.041356



Reviewer: tajh, 24-Mar-2014 08:42:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.066	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.30	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.55		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.97		0.50	0.045
67-64-1	Acetone	58.08	2.0	J *	5.0	1.4
71-43-2	Benzene	78.11	0.25		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068
64-17-5	Ethanol	46.07	9.7		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.072	J	0.20	0.068
142-82-5	Heptane	100.21	0.091	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.55	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.50		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.23		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.091	J	0.20	0.061
115-07-1	Propene	42.08	0.73	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.050	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.44		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.31	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.87	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.0		2.0	0.18
67-64-1	Acetone	58.08	4.7	J *	12	3.3
71-43-2	Benzene	78.11	0.80		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34
64-17-5	Ethanol	46.07	18		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.31	J	0.87	0.30
142-82-5	Heptane	100.21	0.37	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.55	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.7		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.40	J	0.87	0.26
115-07-1	Propene	42.08	1.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.34	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-AMB-8 Lab Sample ID: 140-1060-24

Matrix: Air Lab File ID: JC21P105.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:31

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 19:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D
Lims ID: 140-1060-A-24 Lab Sample ID: 140-1060-24
Client ID: PCV-AMB-8
Sample Type: Client
Inject. Date: 21-Mar-2014 19:07:30 ALS Bottle#: 5 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-24
Misc. Info.: J032114,TO15,,140-0000540-010
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 08:44:29 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:44:29

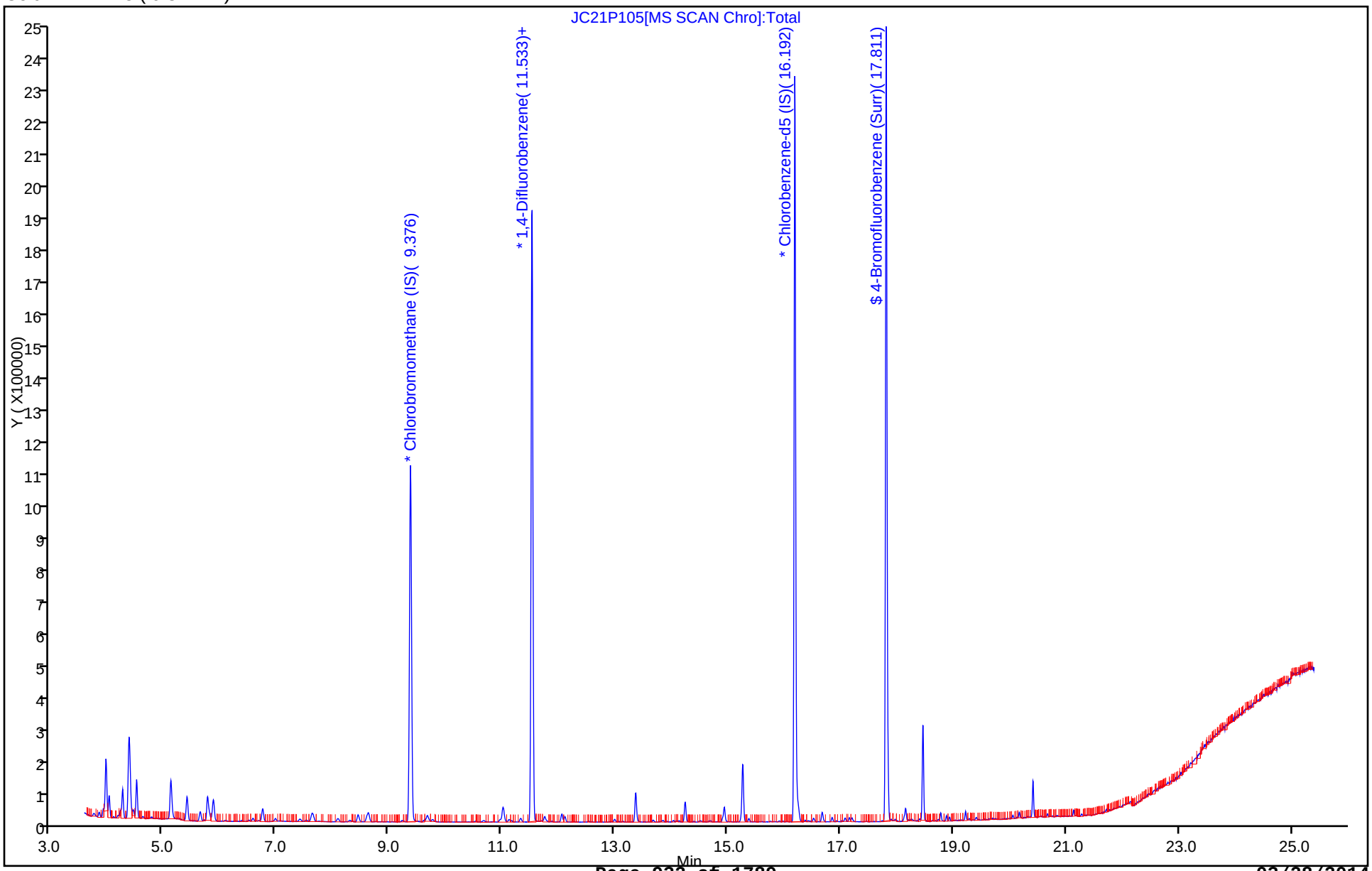
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.379	-0.003	90	387010	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.530	0.003	94	1822955	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.194	-0.002	86	1482996	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.811	17.814	-0.003	91	948355	3.62	
7 Propene	41	3.975	3.972	0.003	91	34452	0.2903	
8 Dichlorodifluoromethane	85	4.029	4.031	-0.002	100	63220	0.1649	
9 Chloromethane	52	4.228	4.231	-0.003	97	9113	0.2093	
17 Ethanol	31	5.126	5.113	0.013	94	120240	3.87	
19 2-Methylbutane	43	5.411	5.409	0.002	91	35935	0.2186	
20 Trichlorofluoromethane	101	5.648	5.640	0.008	85	25983	0.0772	
23 Acetone	58	5.782	5.769	0.013	91	43086	0.7832	
24 Isopropyl alcohol	45	5.868	5.844	0.024	83	32149	0.2213	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.573	6.576	-0.003	62	6067	0.0260	
31 Methylene Chloride	84	6.751	6.753	-0.002	93	20759	0.2005	
39 2-Butanone (MEK)	72	8.601	8.583	0.019	95	4331	0.1182	
40 Hexane	56	8.633	8.631	0.002	86	6552	0.0630	
48 Benzene	78	11.017	11.014	0.003	90	31515	0.1008	
50 Carbon tetrachloride	117	11.038	11.046	-0.008	80	6606	0.0256	
53 Isooctane	57	11.759	11.756	0.003	84	14115	0.0264	
54 n-Heptane	71	12.119	12.117	0.002	80	4023	0.0364	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.365	0.008	96	74192	0.3883	
65 Toluene	91	14.244	14.247	-0.003	90	48584	0.1766	
73 Tetrachloroethene	129	15.374	15.377	-0.003	66	2568	0.0200	
76 Ethylbenzene	91	16.525	16.523	0.002	36	8692	0.0286	
78 m-Xylene & p-Xylene	91	16.676	16.684	-0.008	88	22593	0.0921	
82 o-Xylene	91	17.208	17.206	0.002	63	9087	0.0366	

Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24	Worklist Smp#:	10
Client ID:	PCV-AMB-8				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



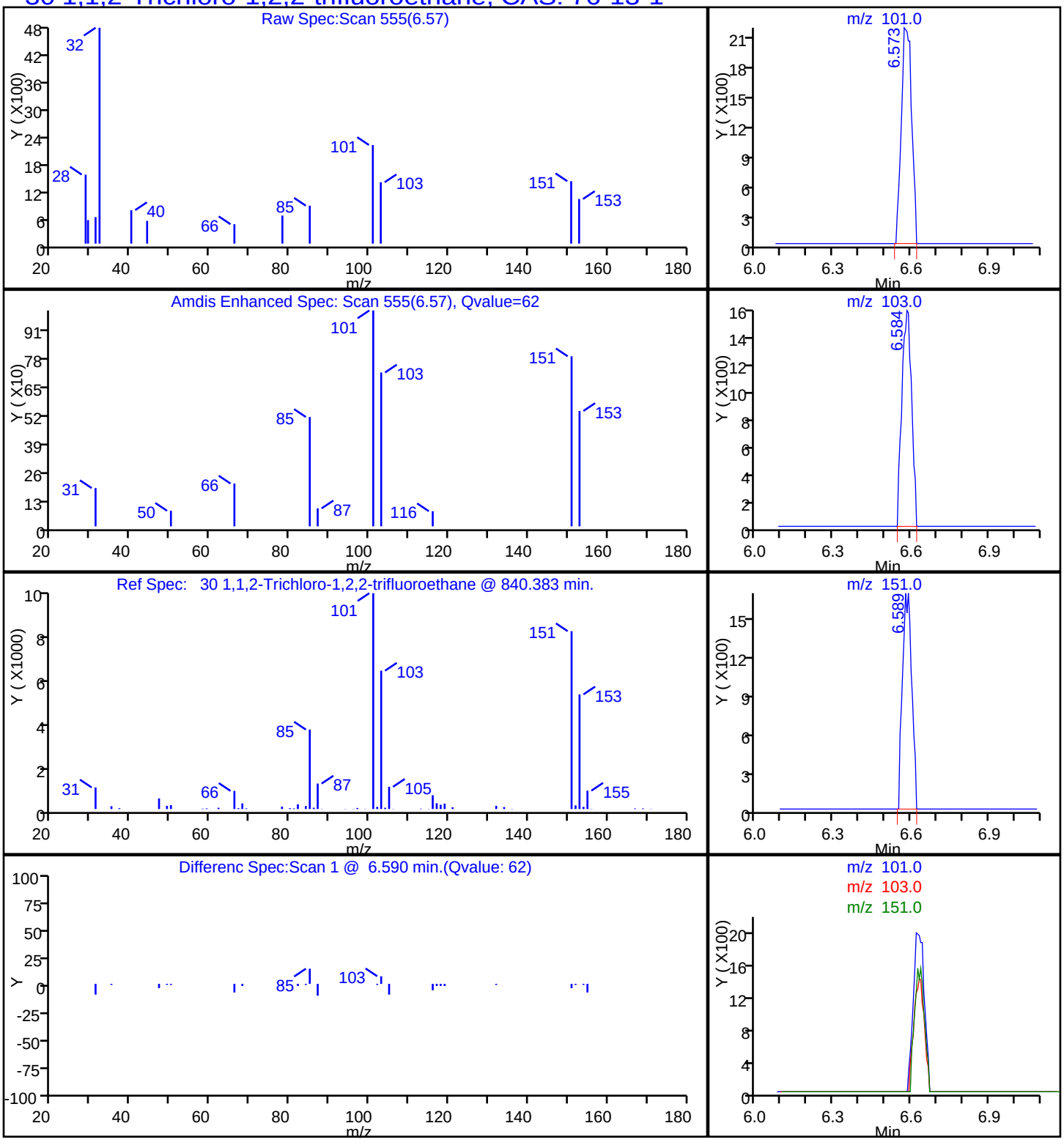
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

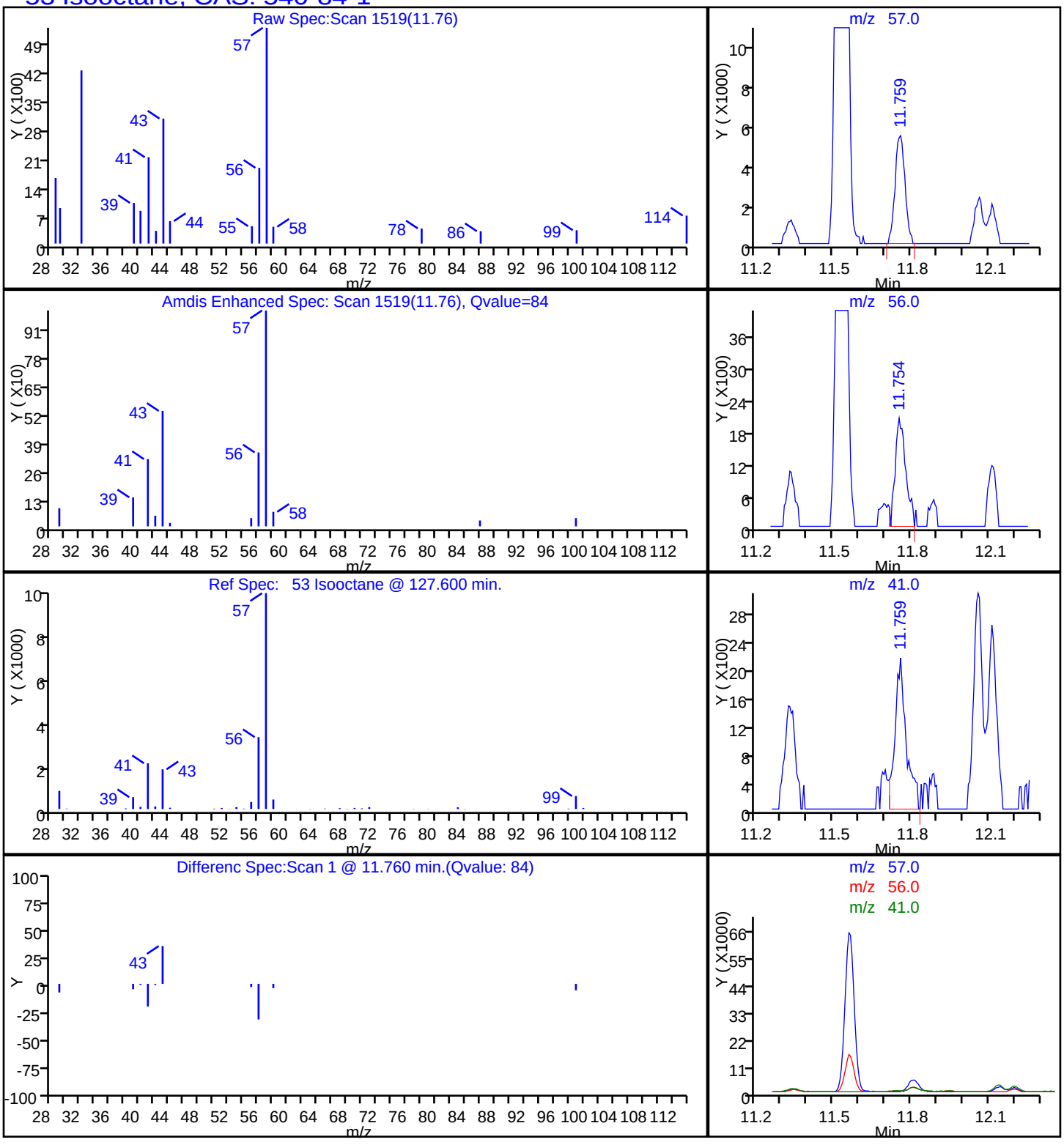


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



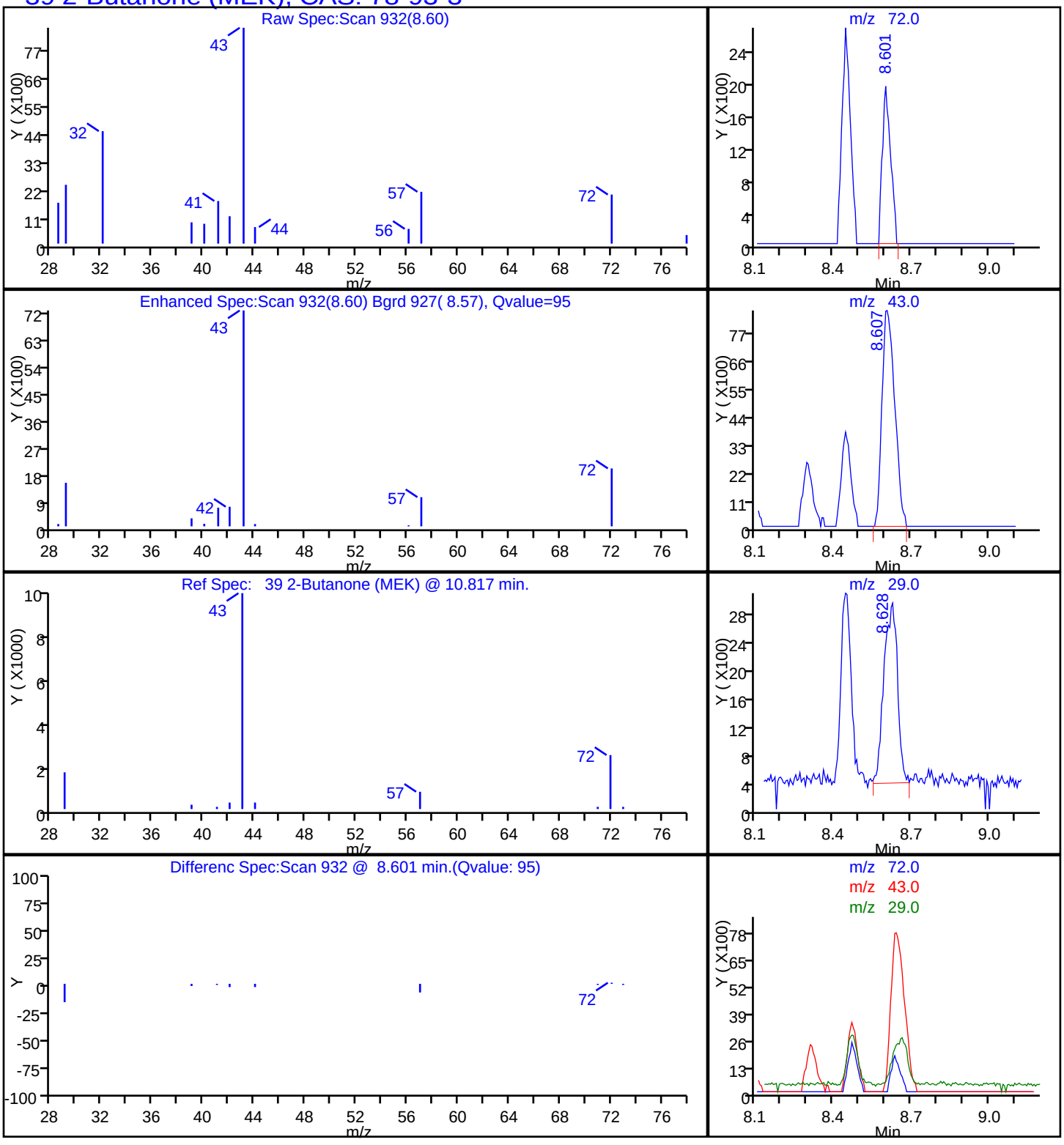
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date: 21-Mar-2014 19:07:30 Instrument ID: MJ

Lims ID: 140-1060-A-24 Lab Sample ID: 140-1060-24

Client ID: PCV-AMB-8

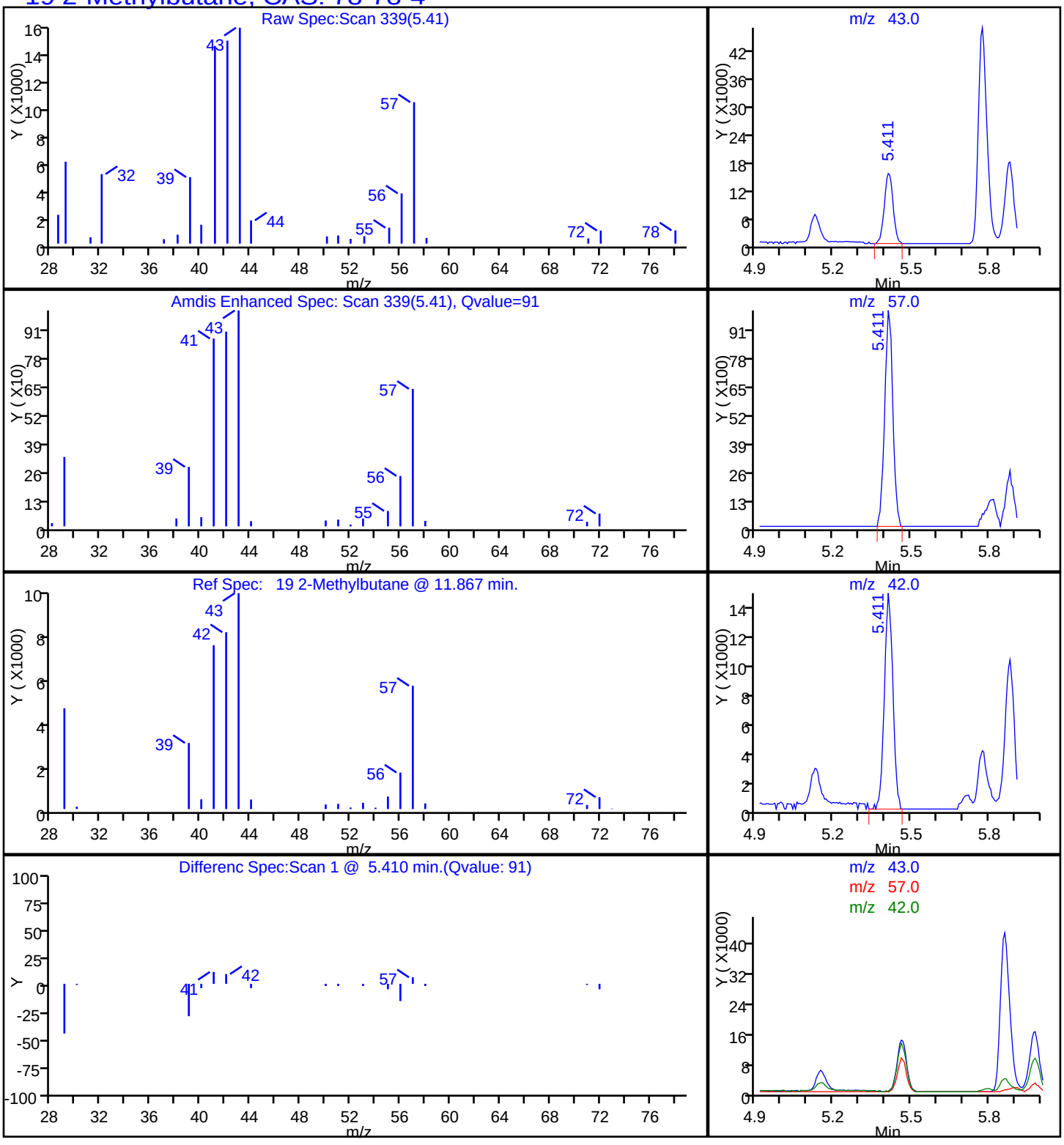
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4

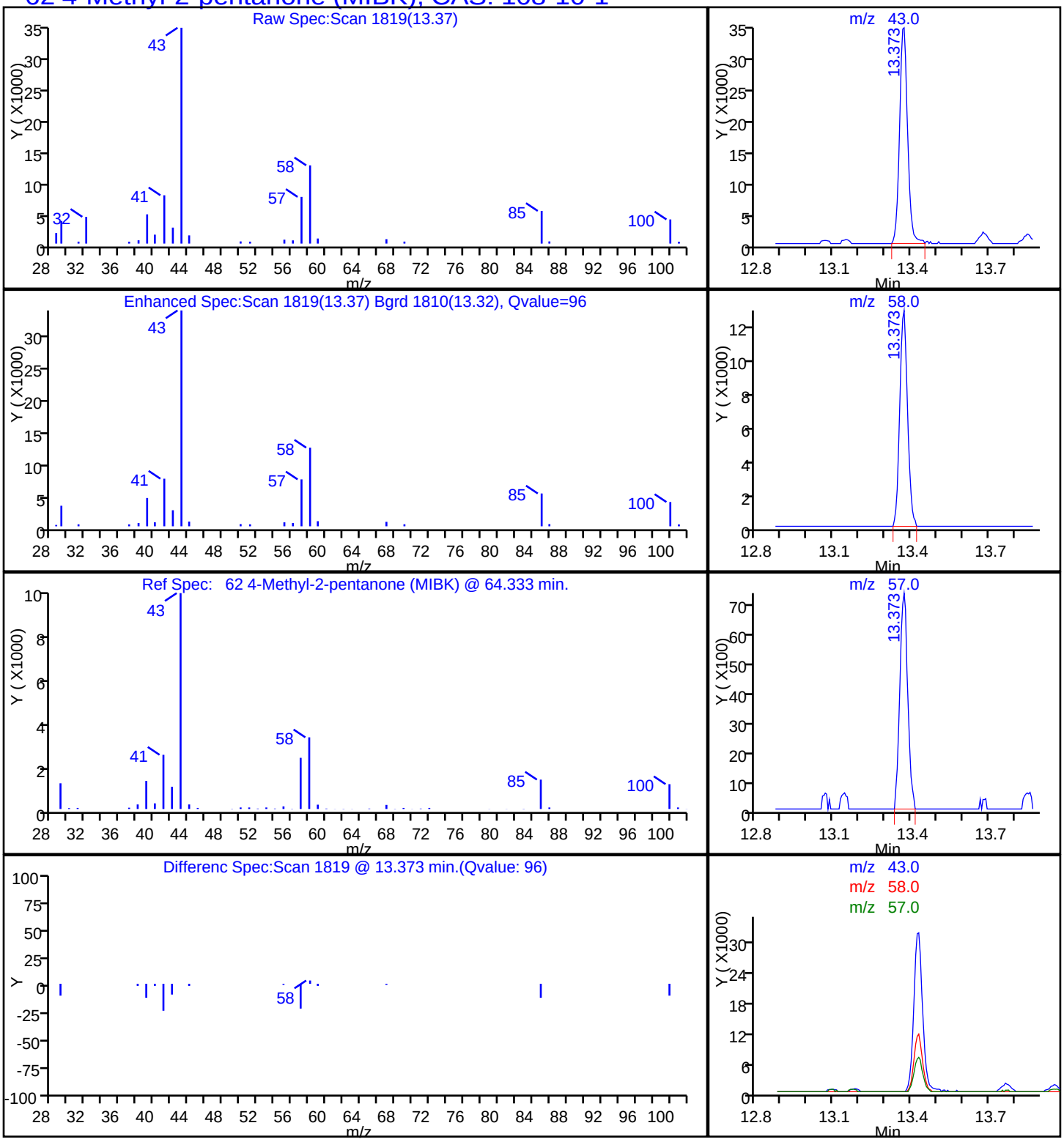


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D		
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



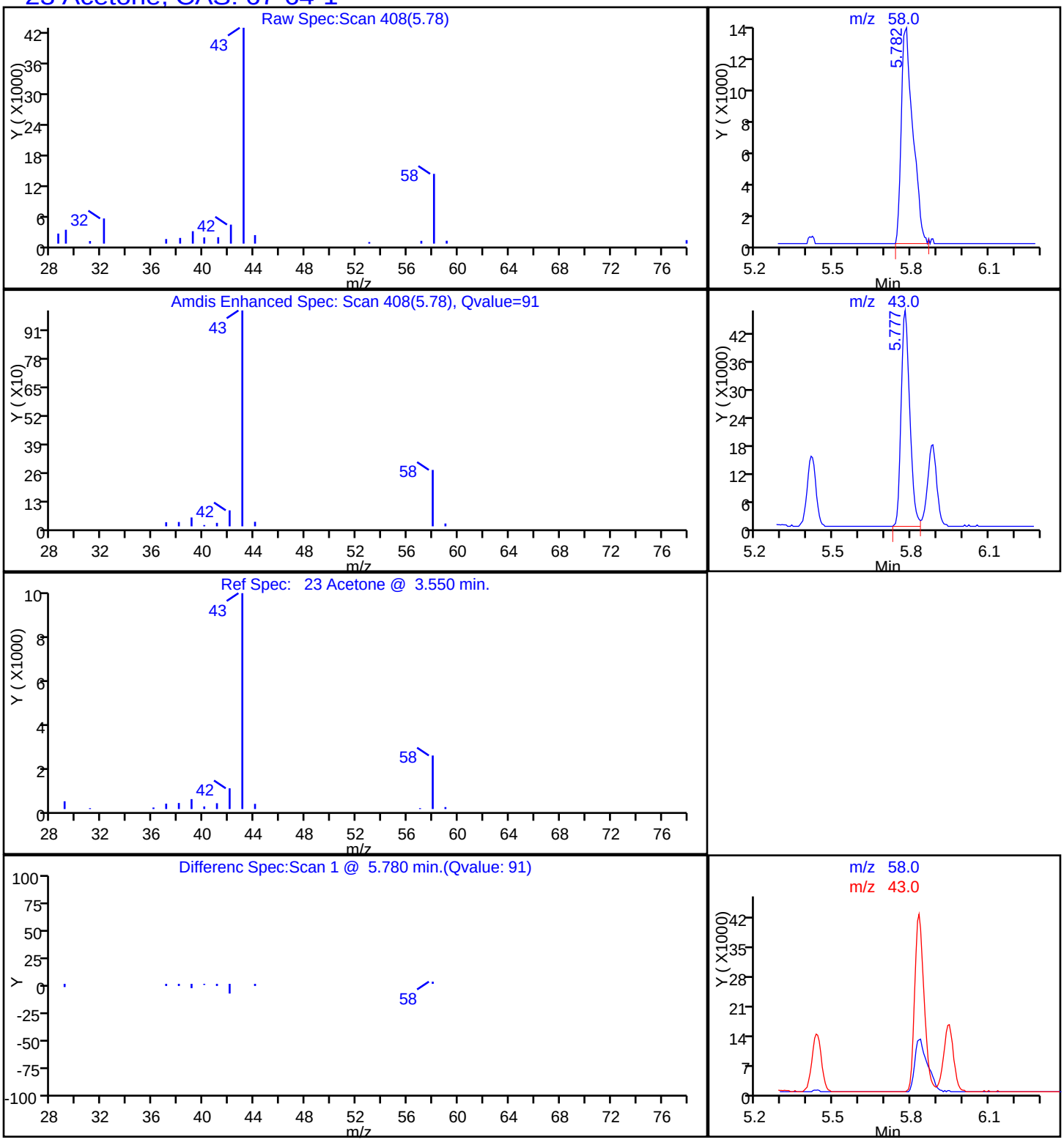
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



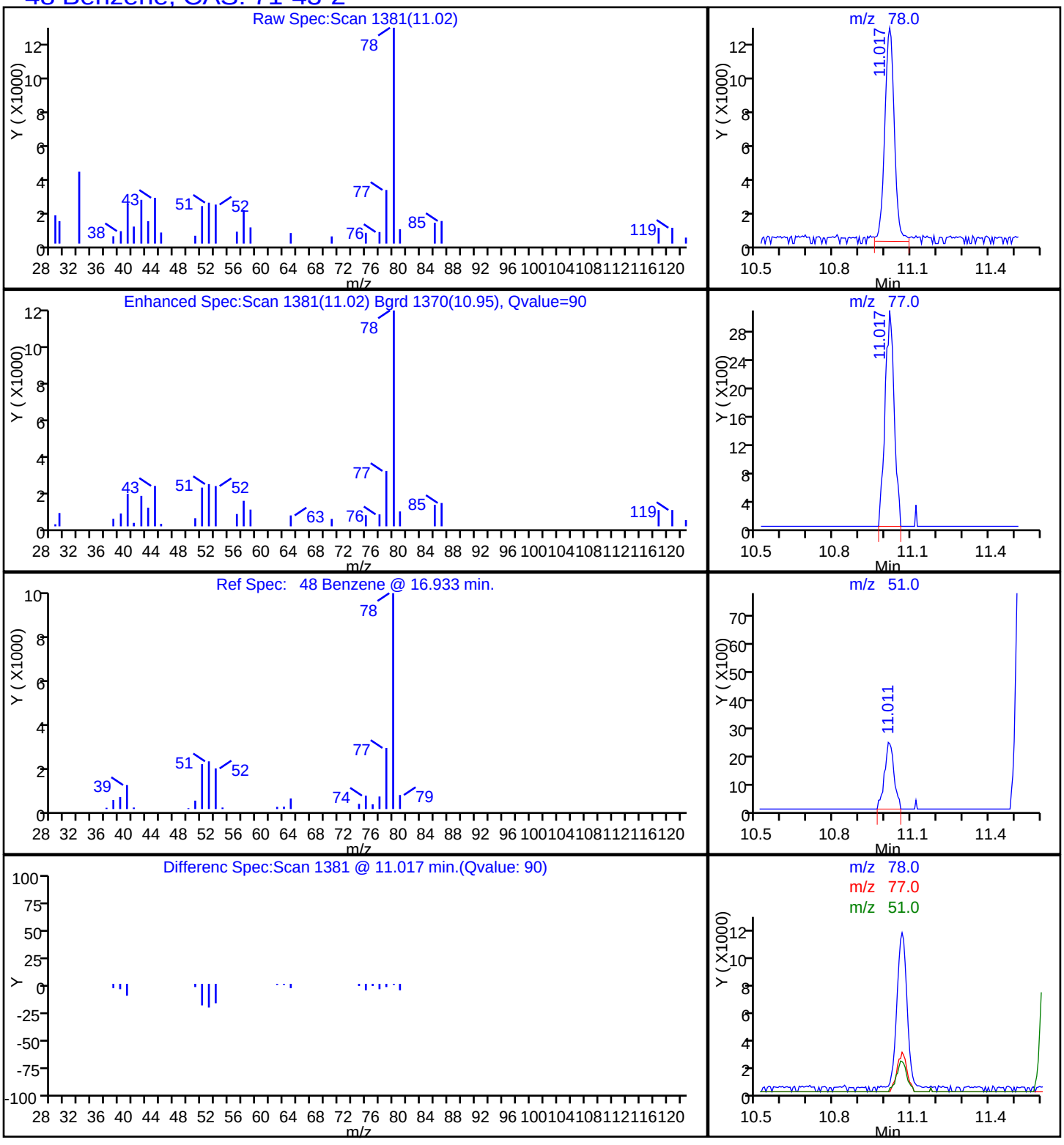
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



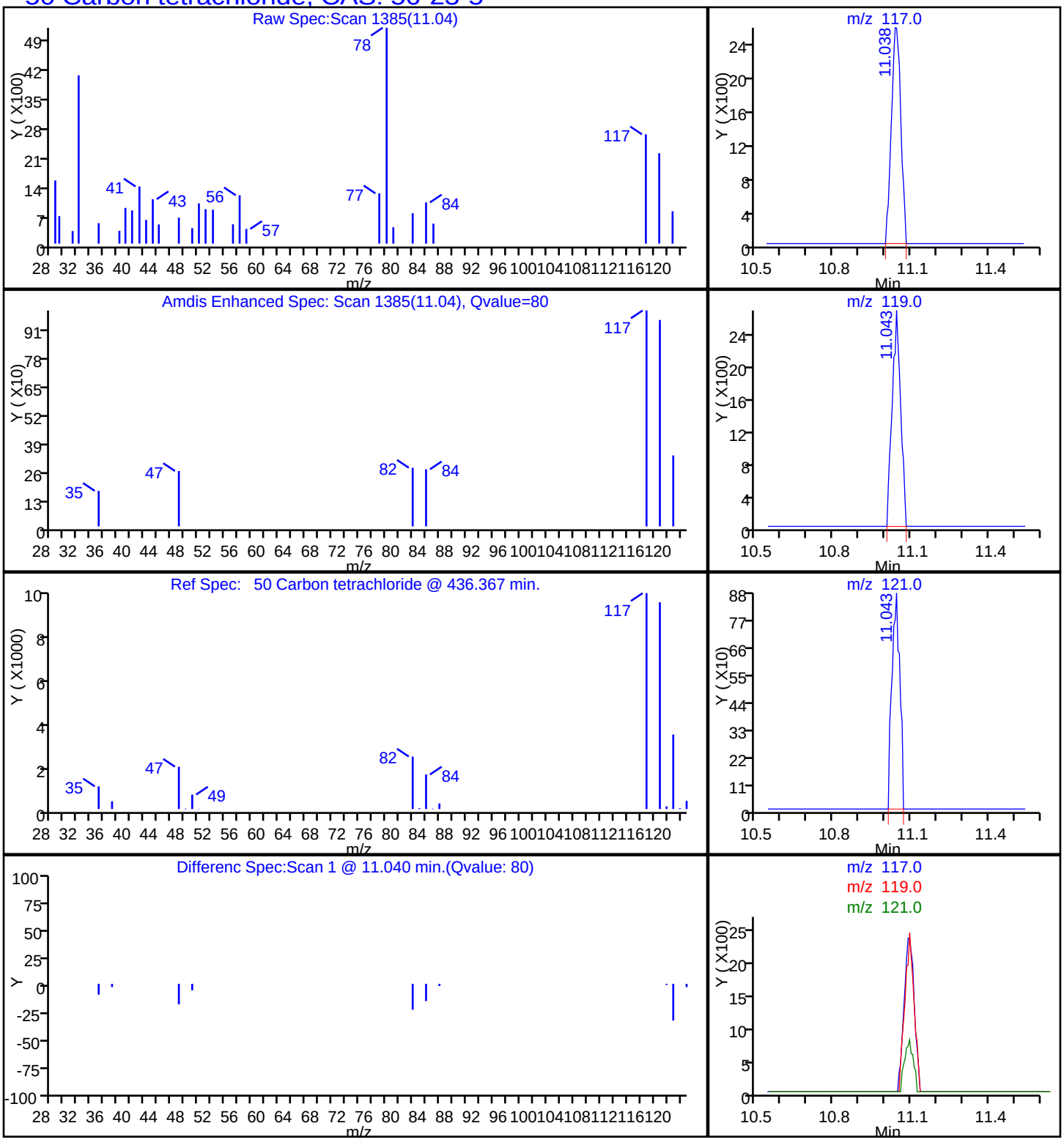
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



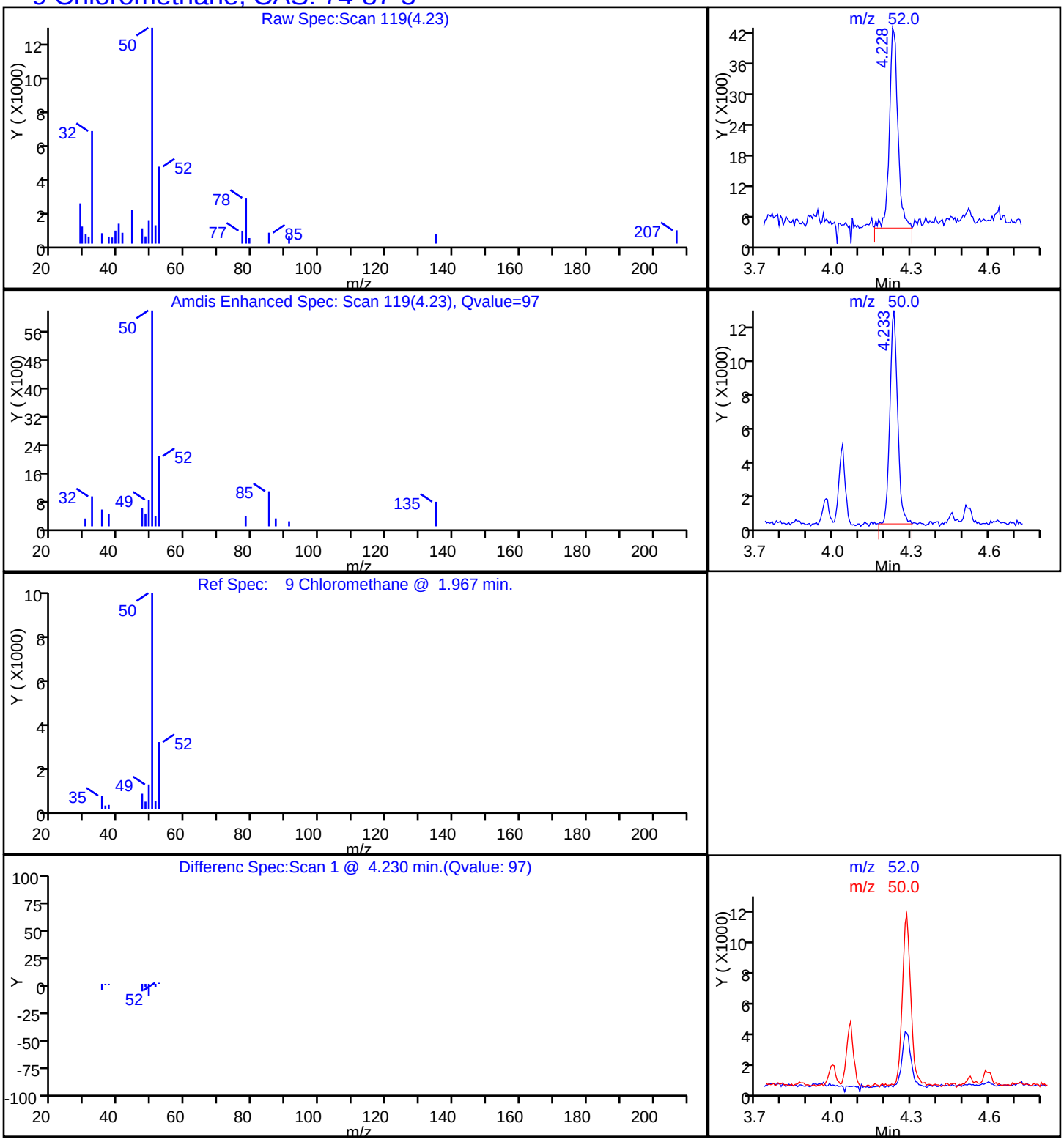
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



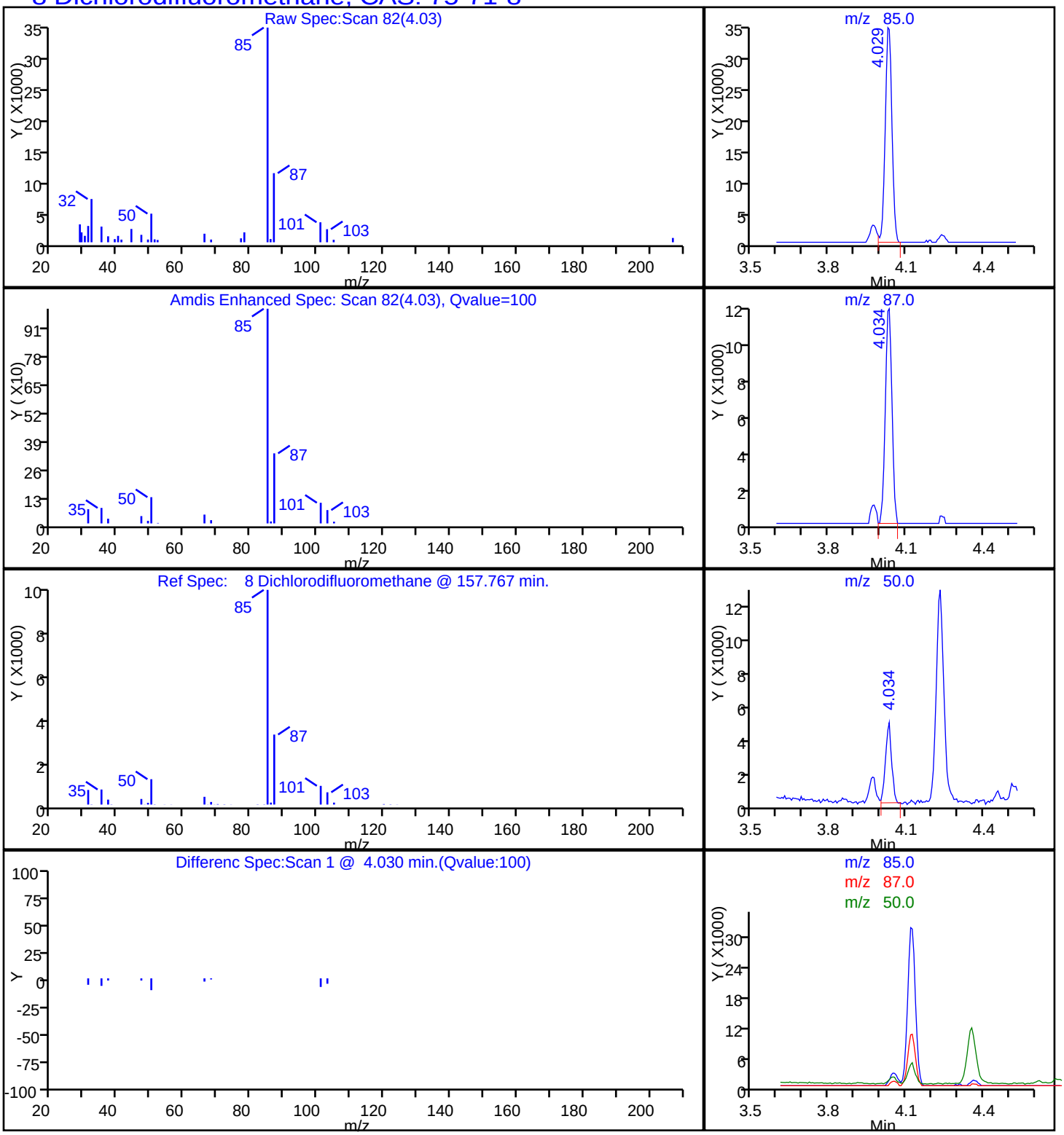
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

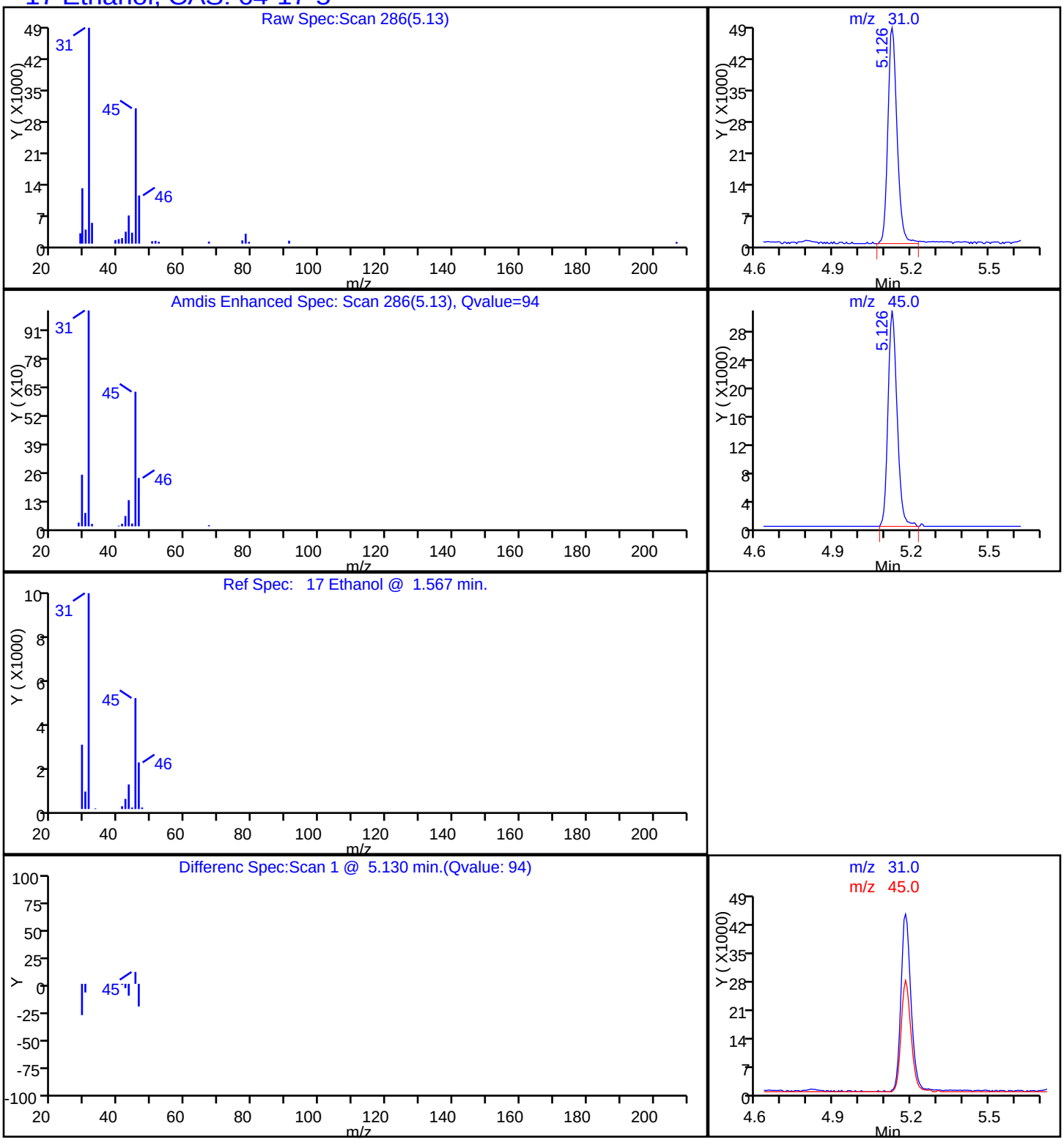


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D		
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



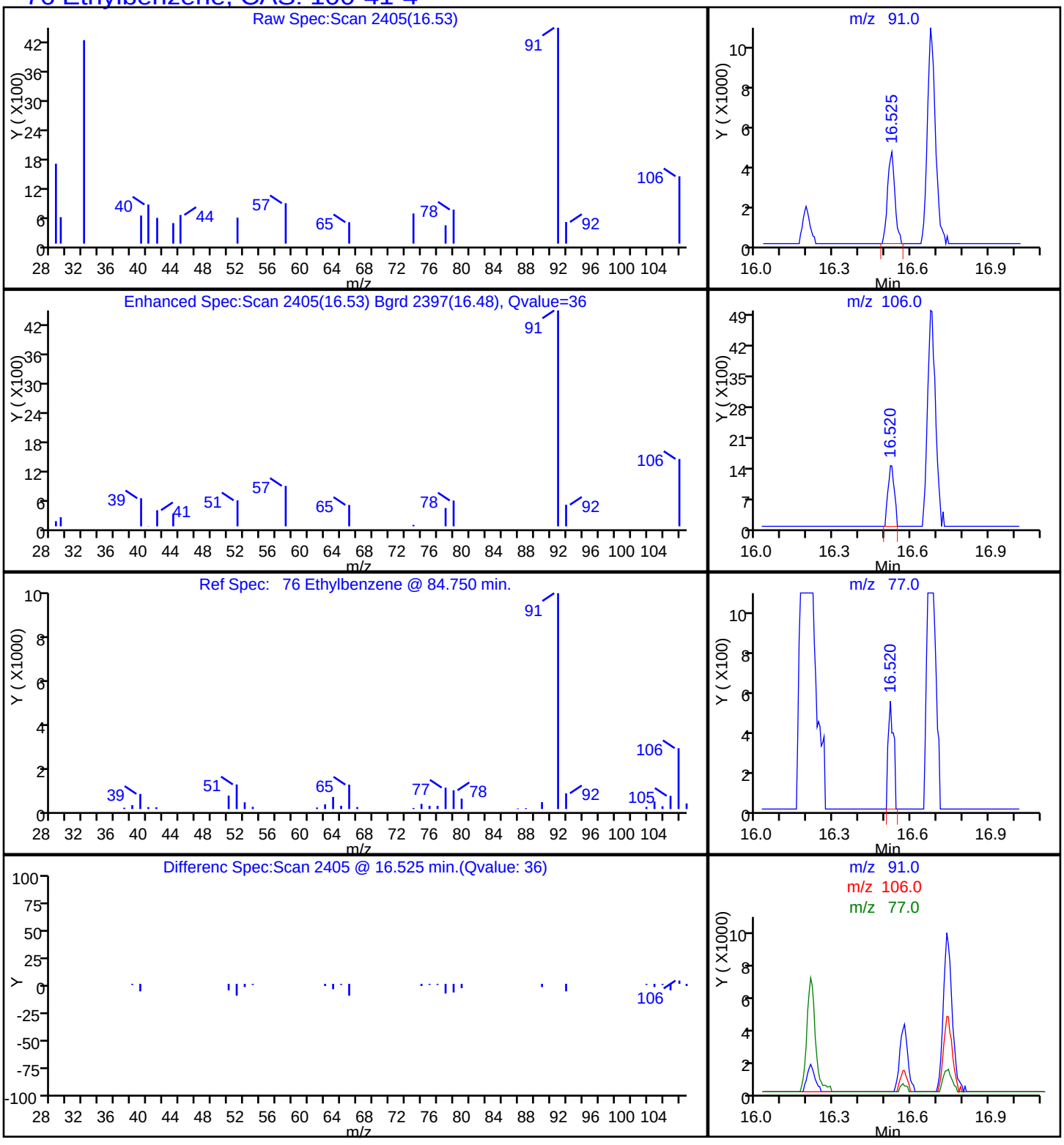
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



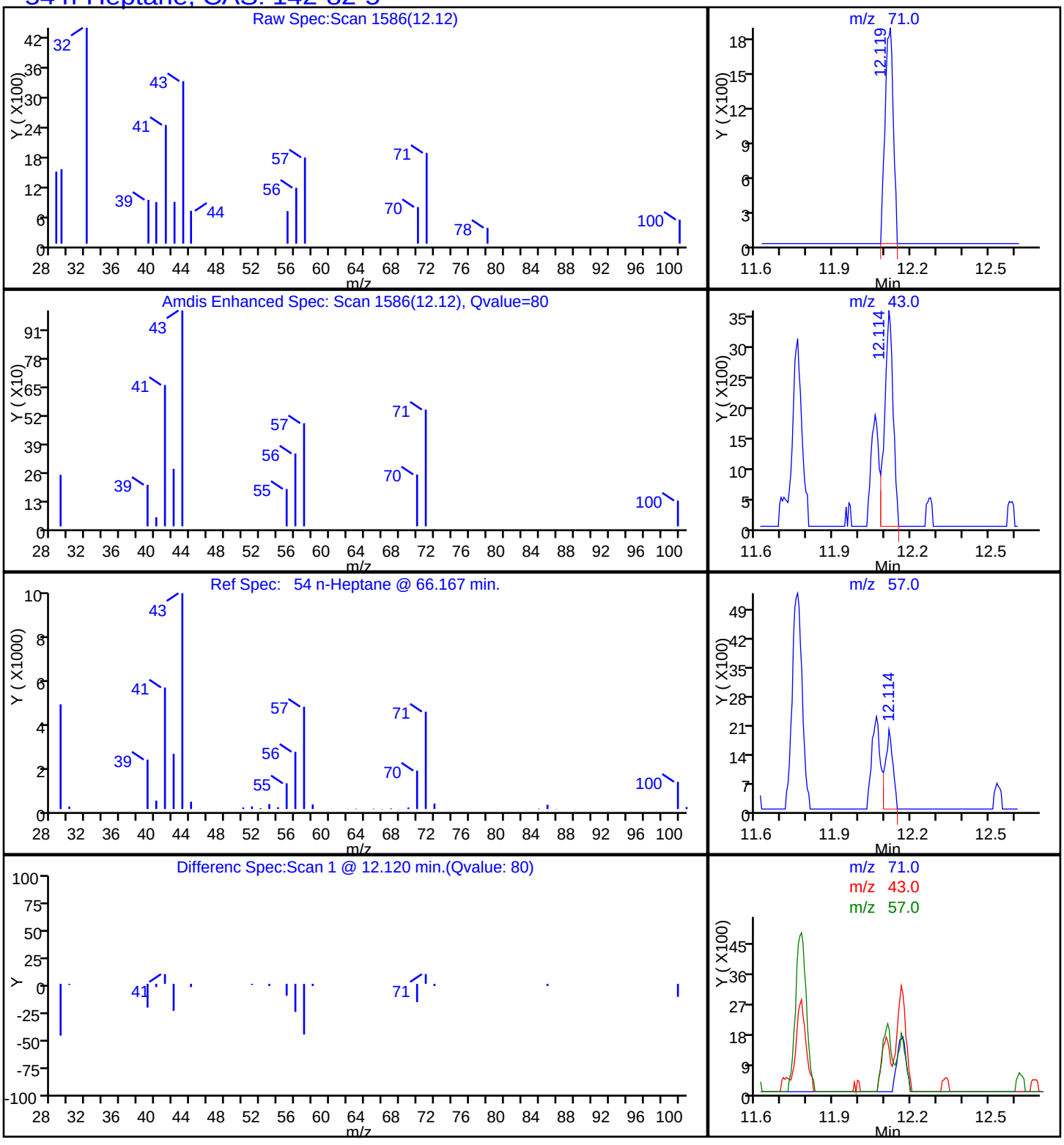
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

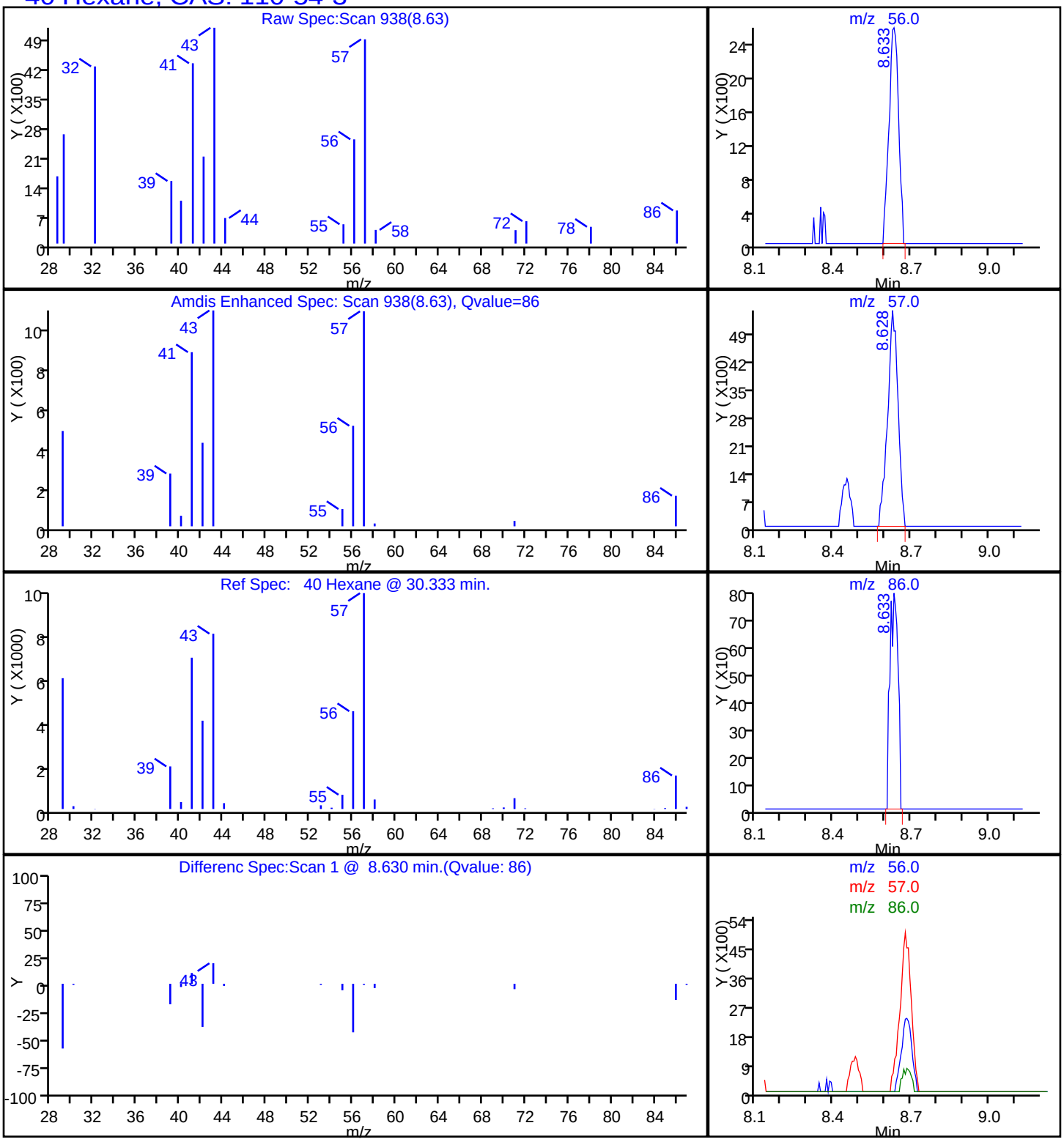


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

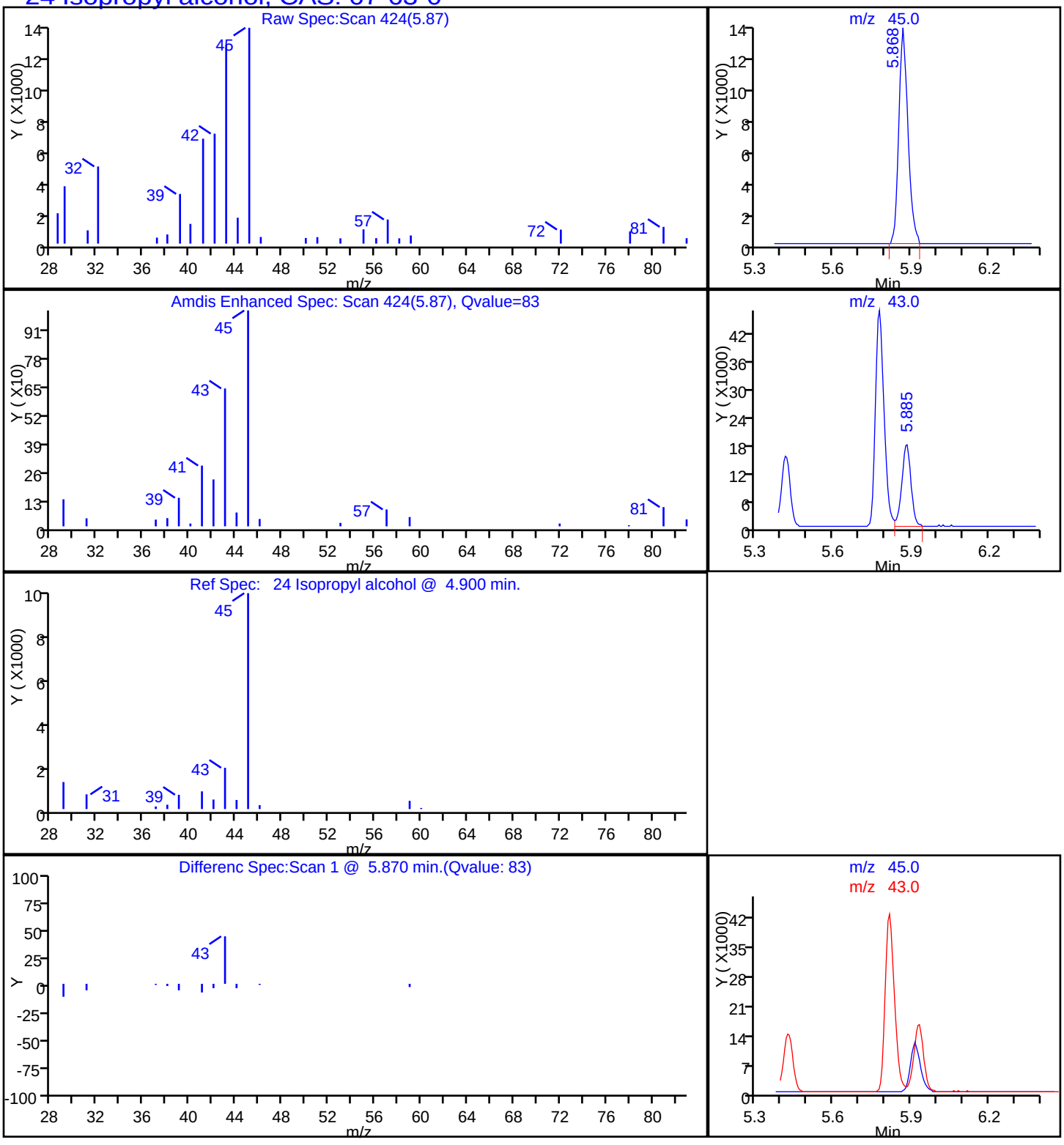


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

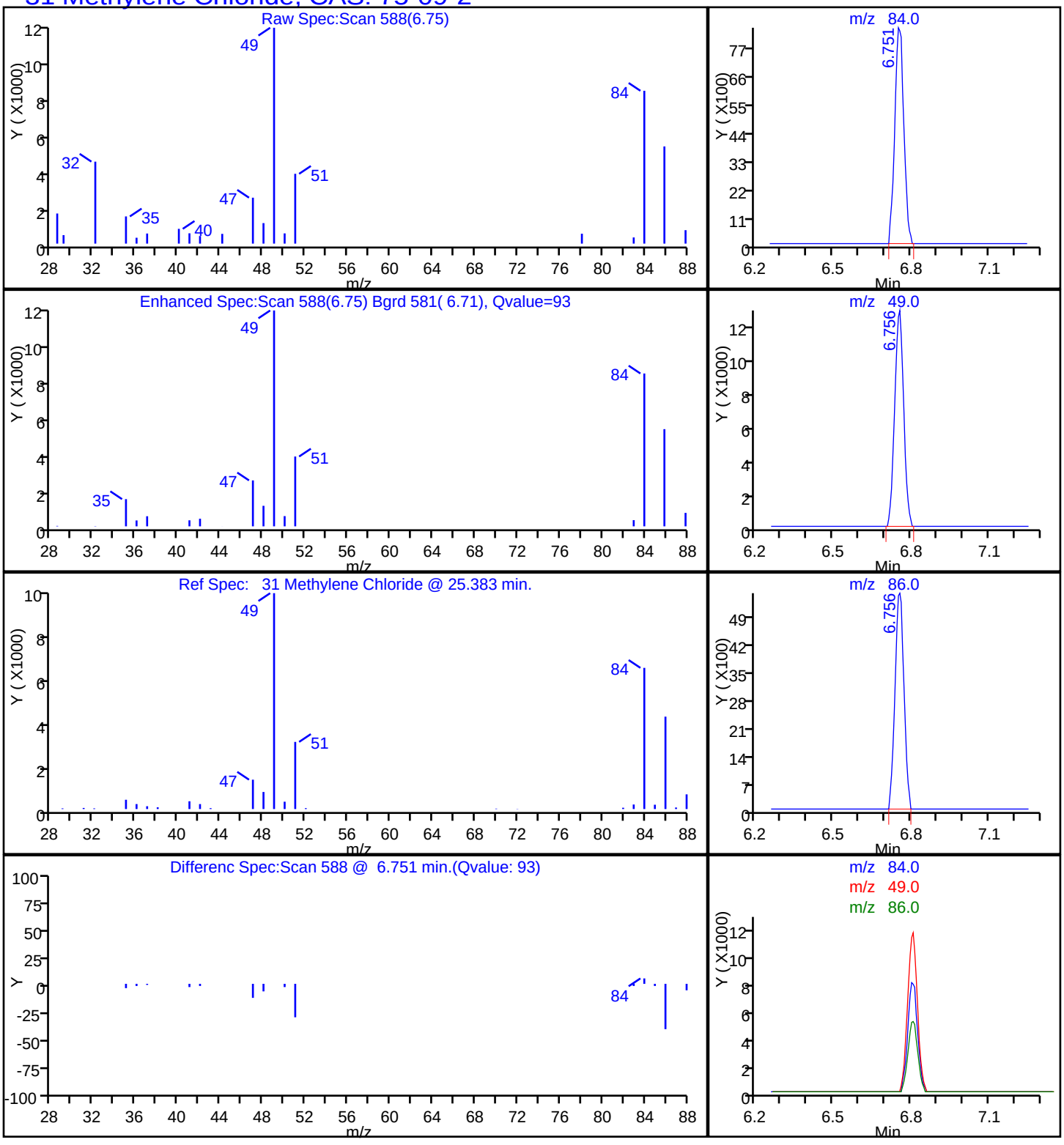


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

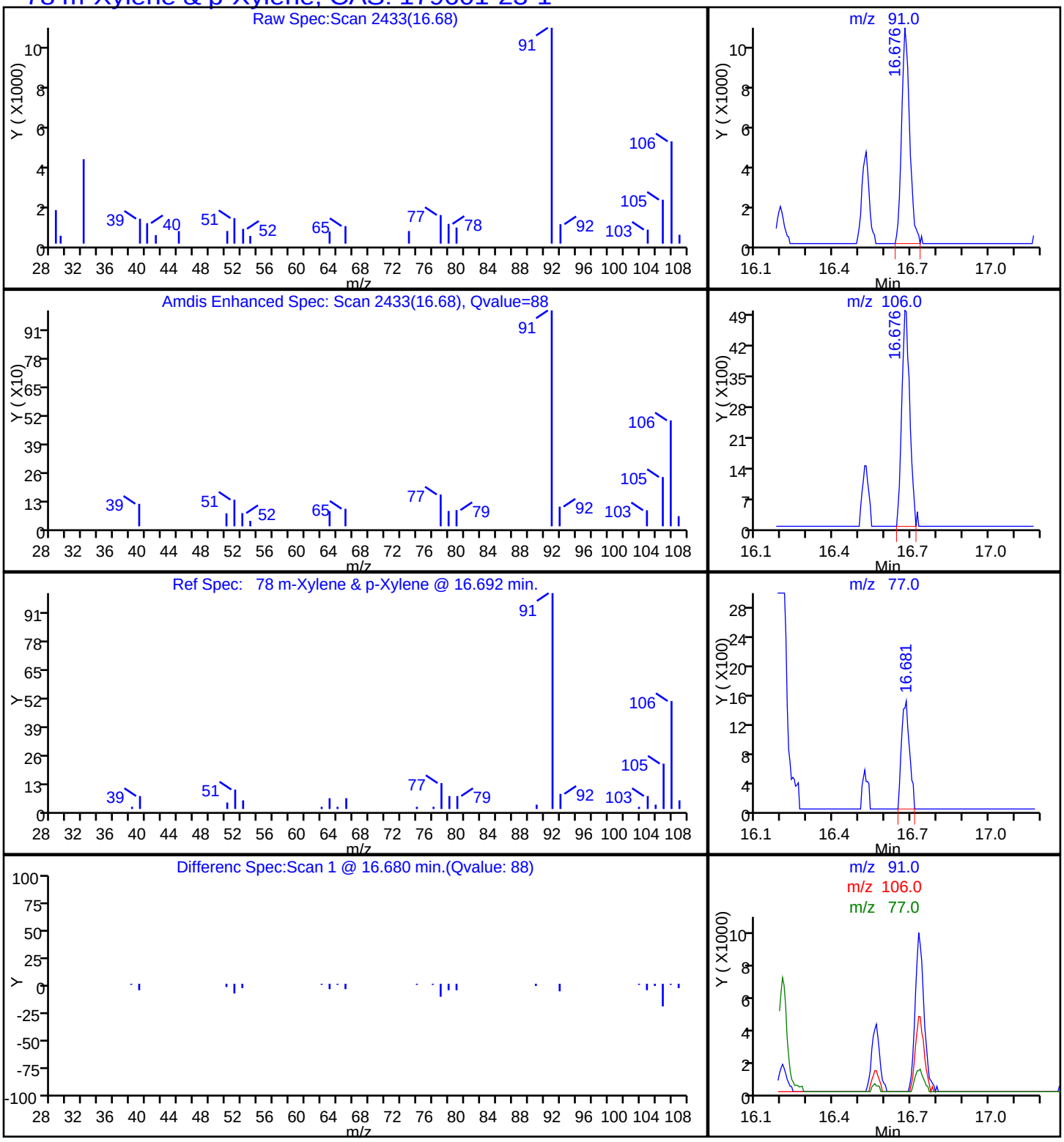


Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D				
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



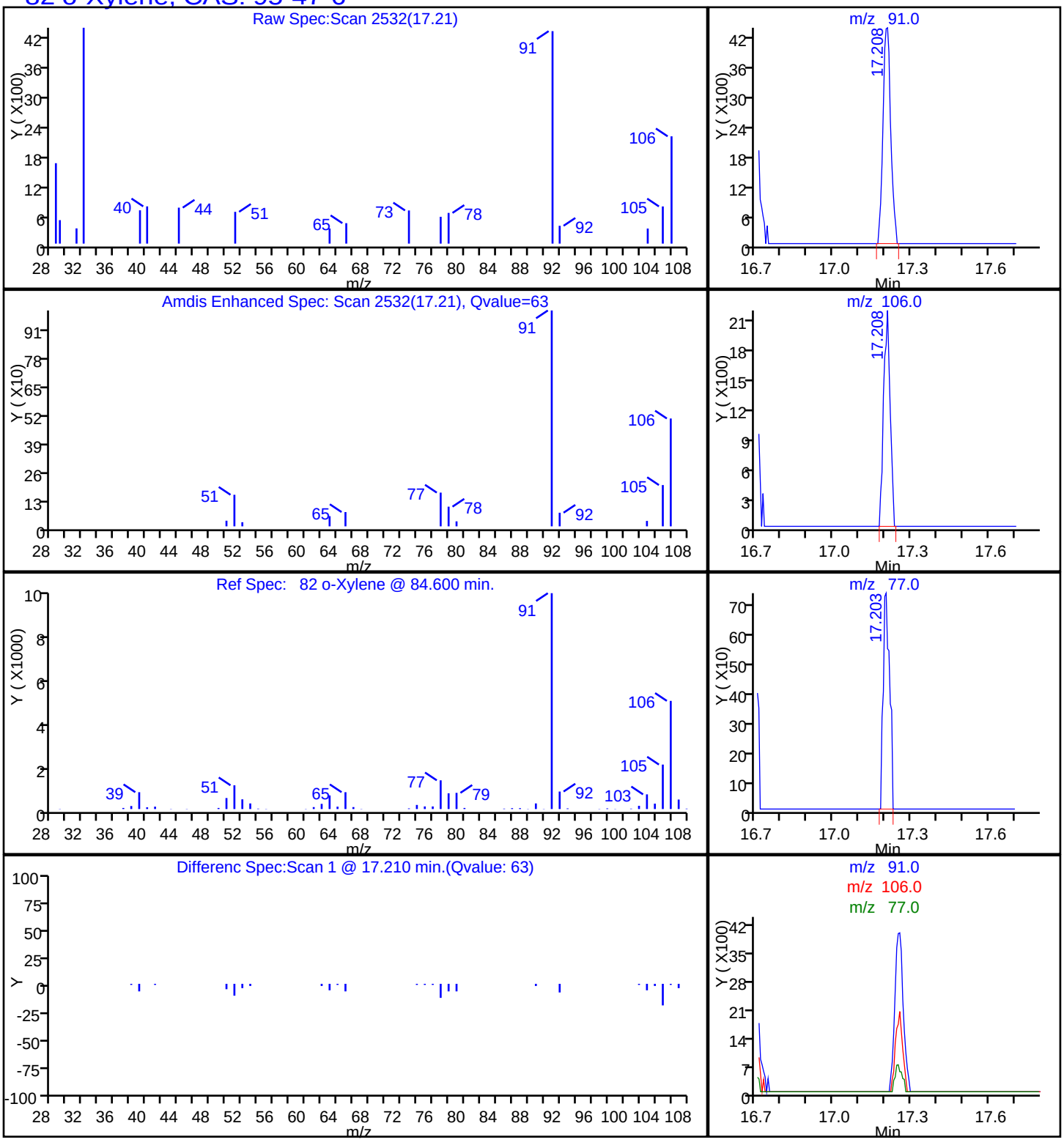
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ		
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24		
Client ID:	PCV-AMB-8				
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



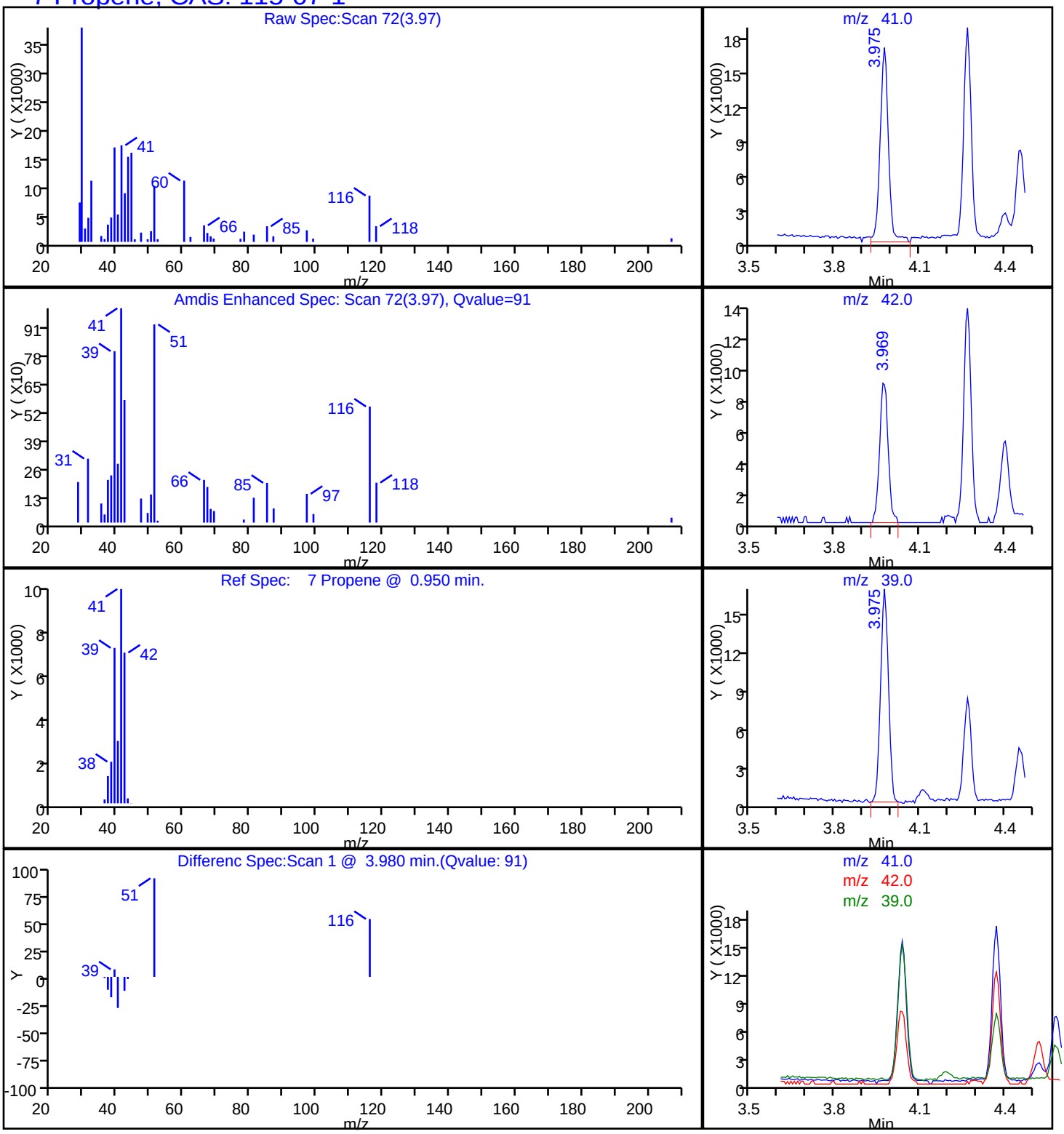
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



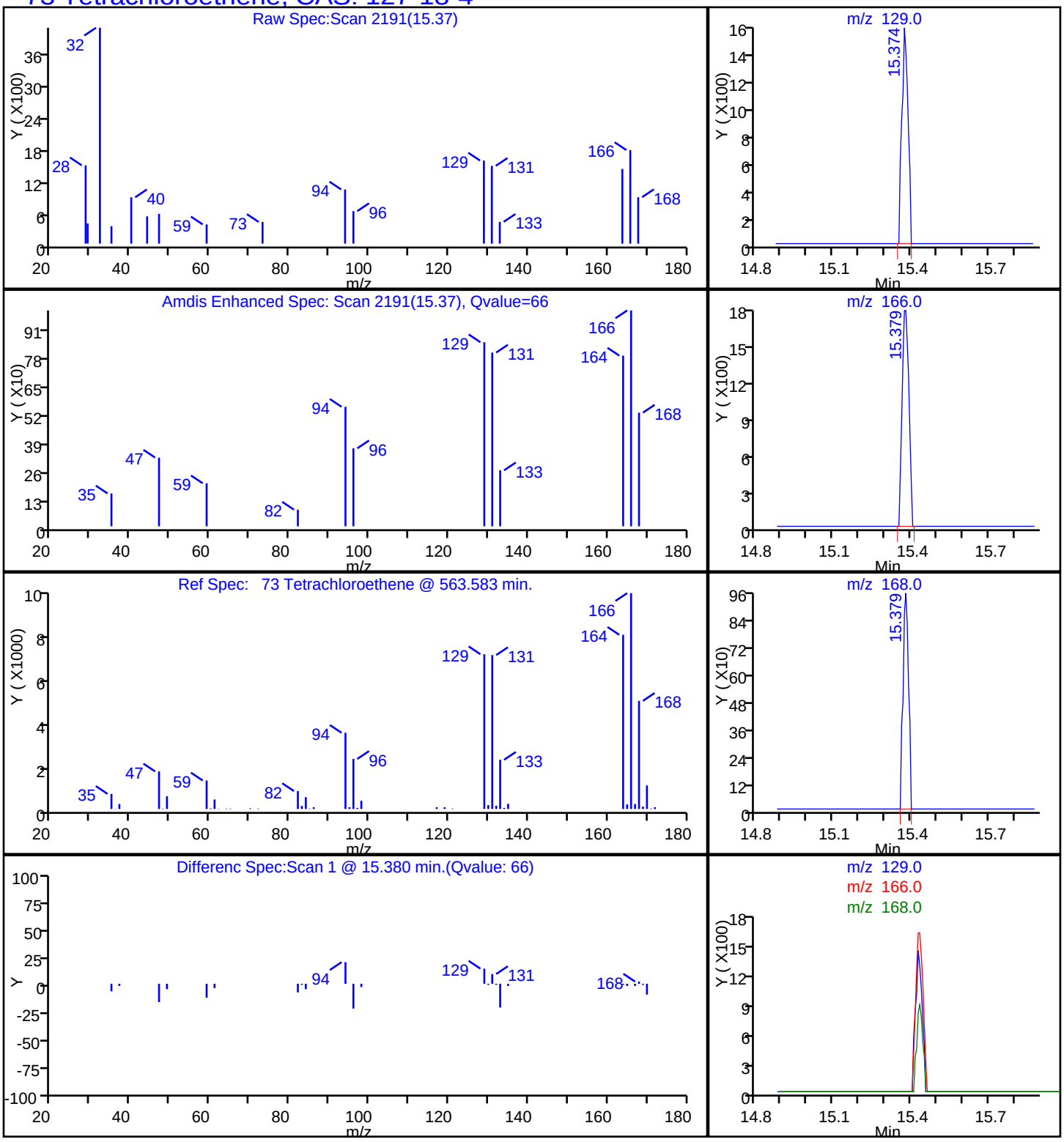
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

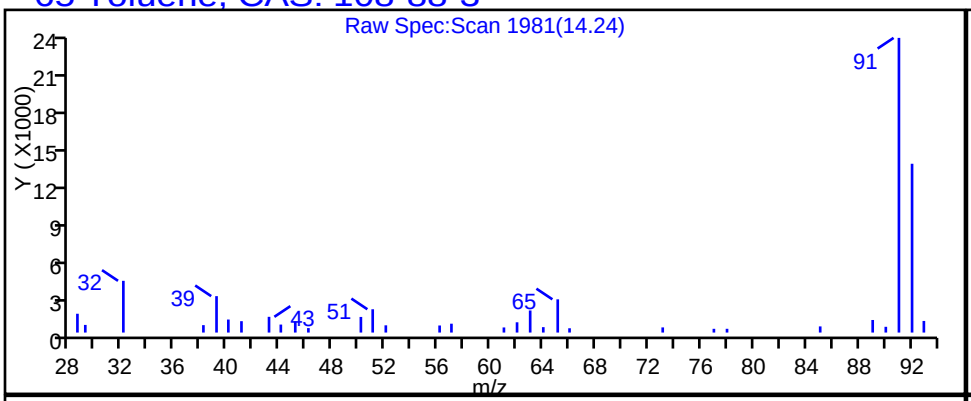


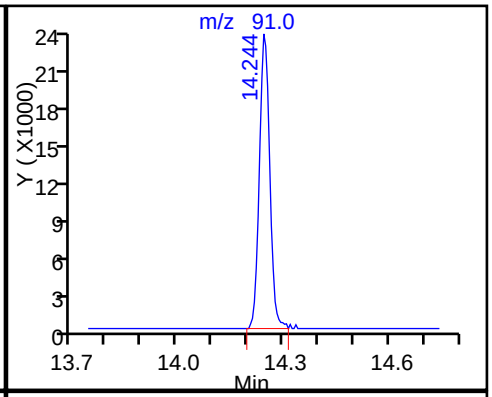
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

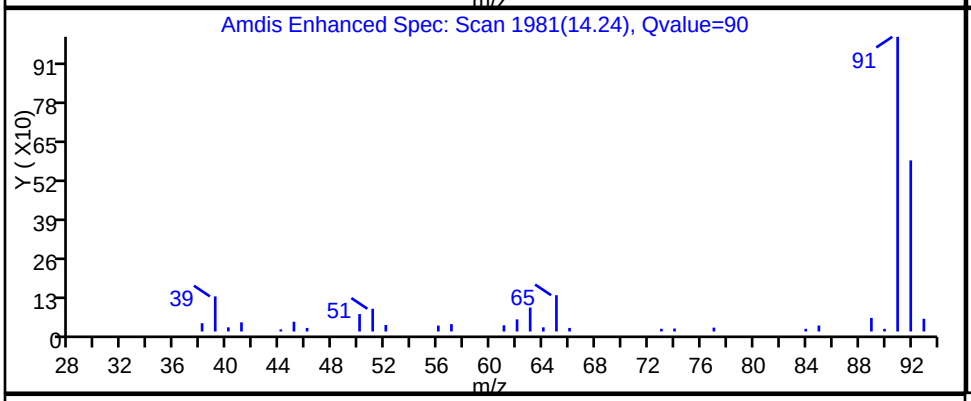
TestAmerica Knoxville

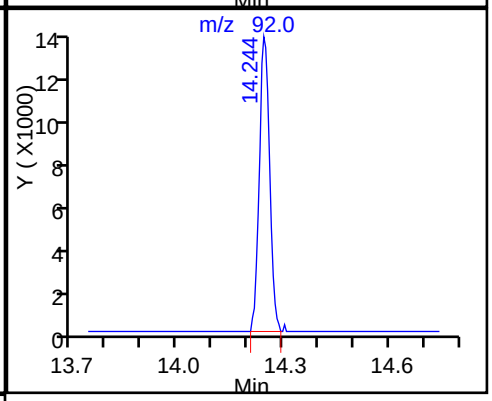
Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D		
Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

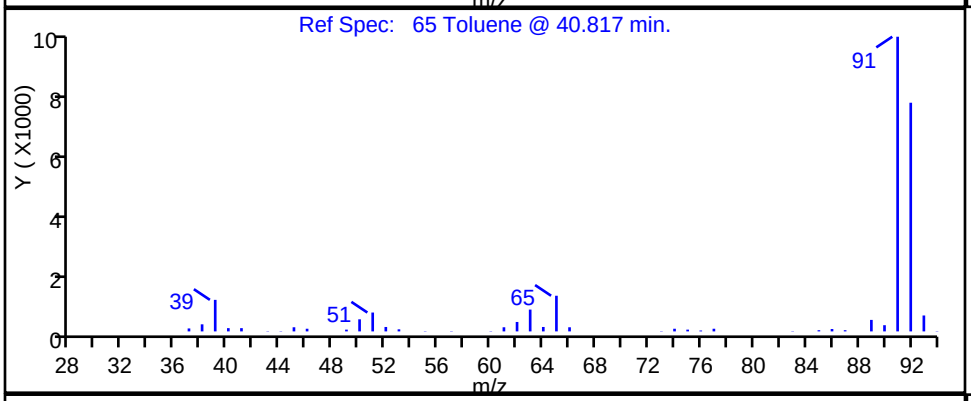
65 Toluene, CAS: 108-88-3

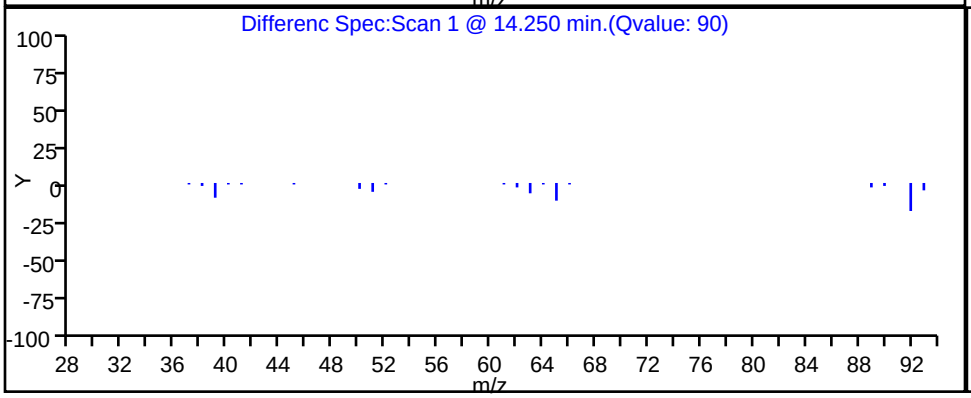


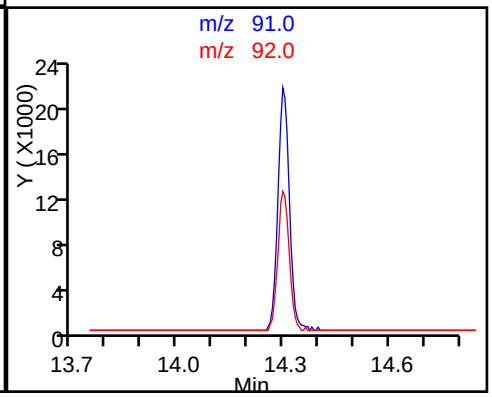












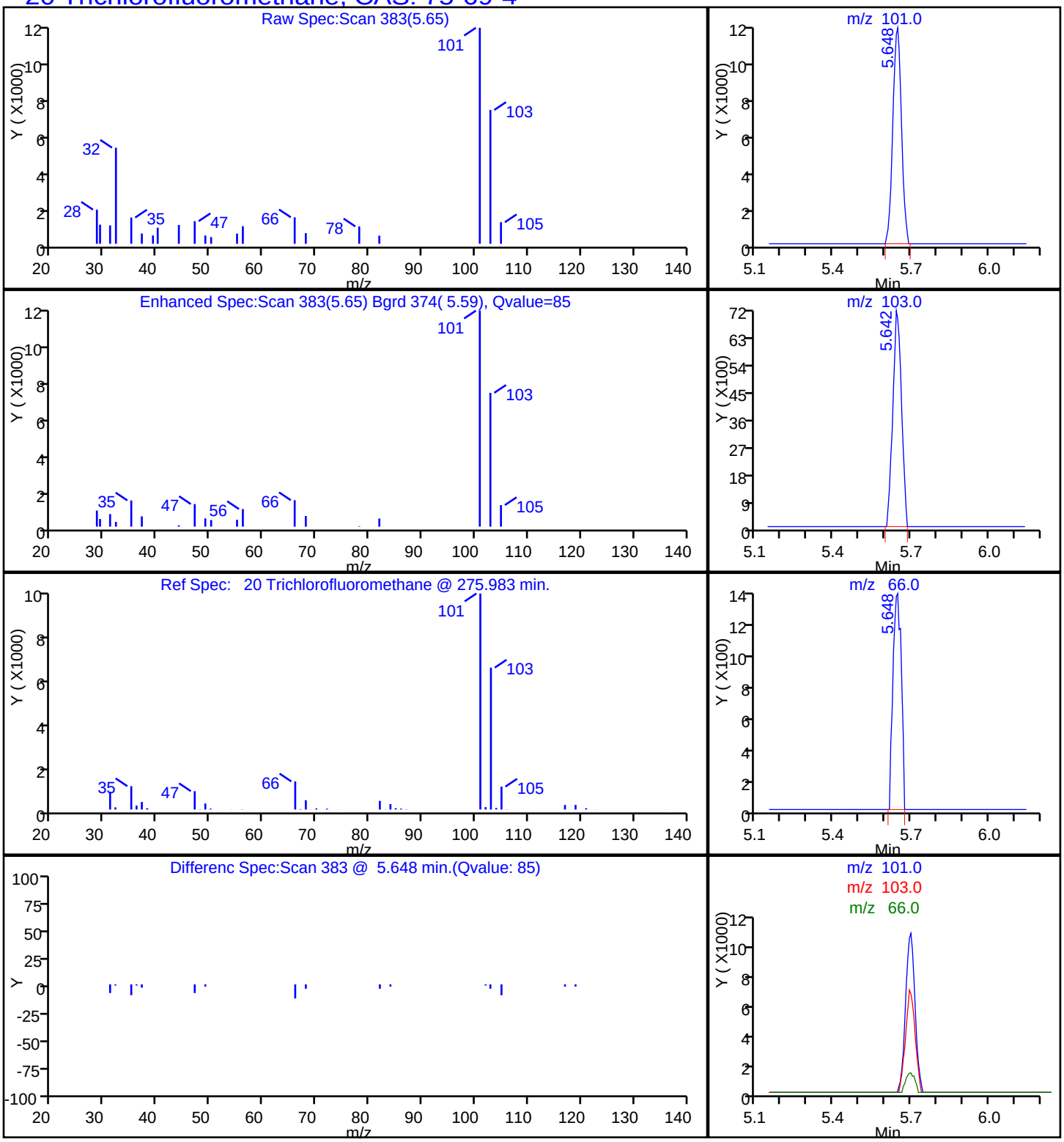
Report Date: 24-Mar-2014 08:44:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P105.D

Injection Date:	21-Mar-2014 19:07:30	Instrument ID:	MJ
Lims ID:	140-1060-A-24	Lab Sample ID:	140-1060-24
Client ID:	PCV-AMB-8		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

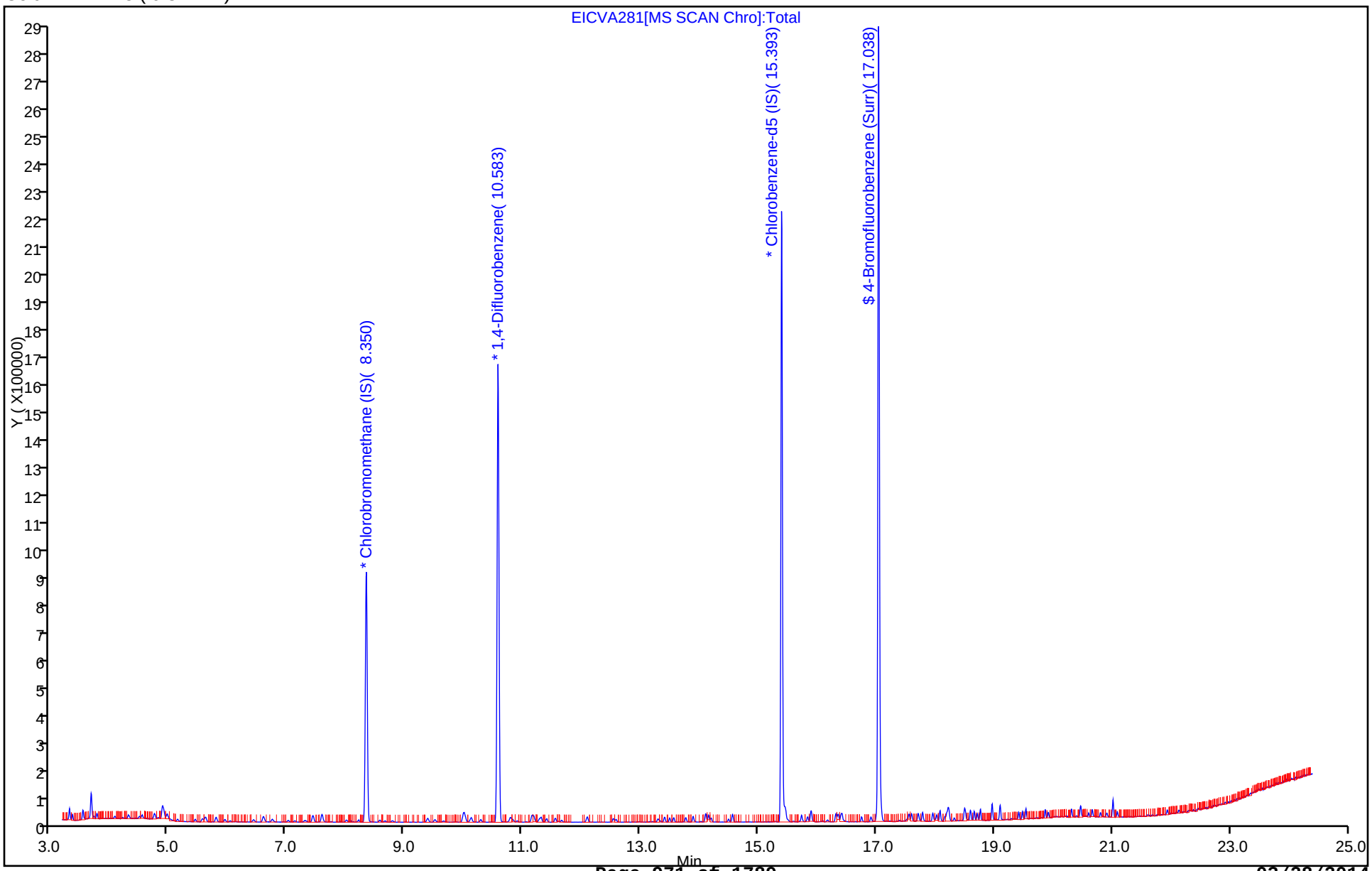
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

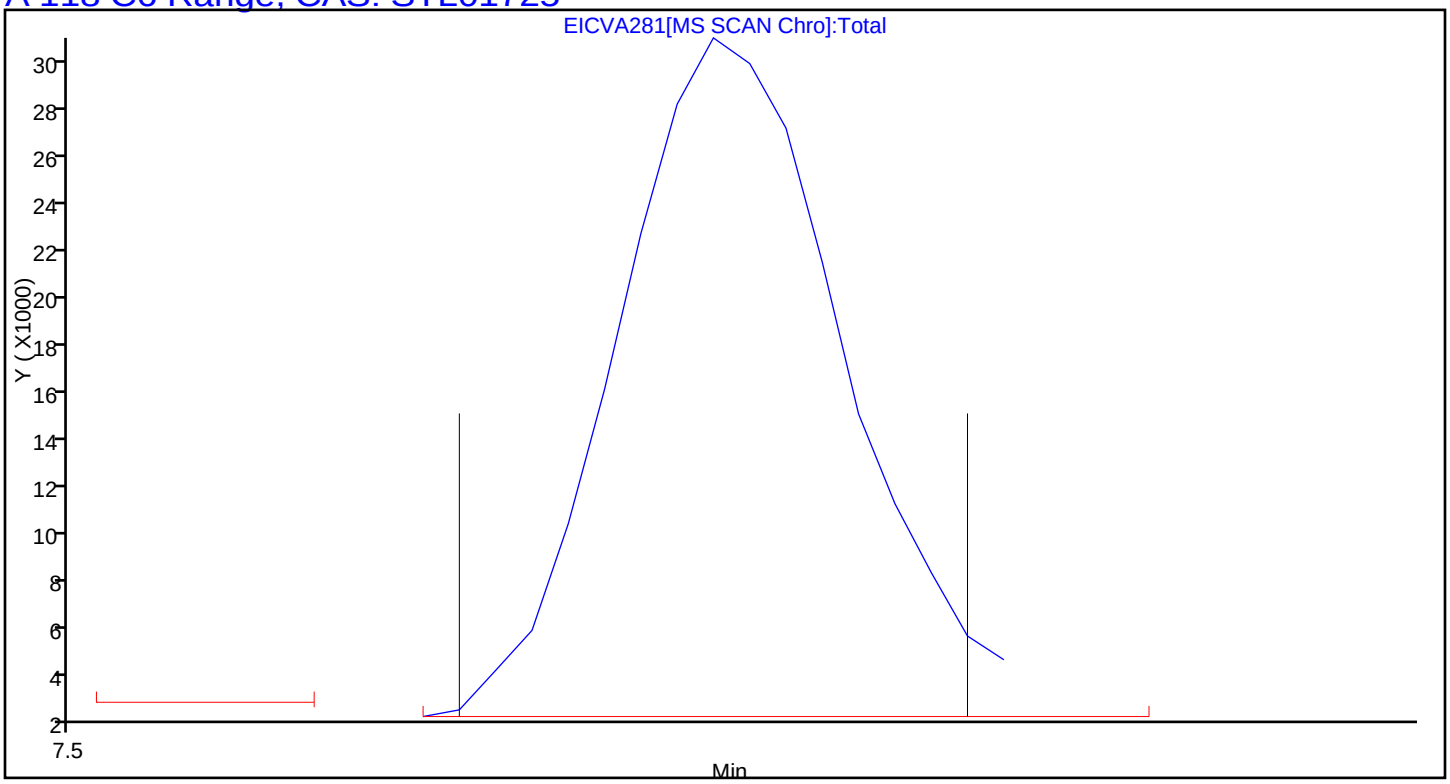


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

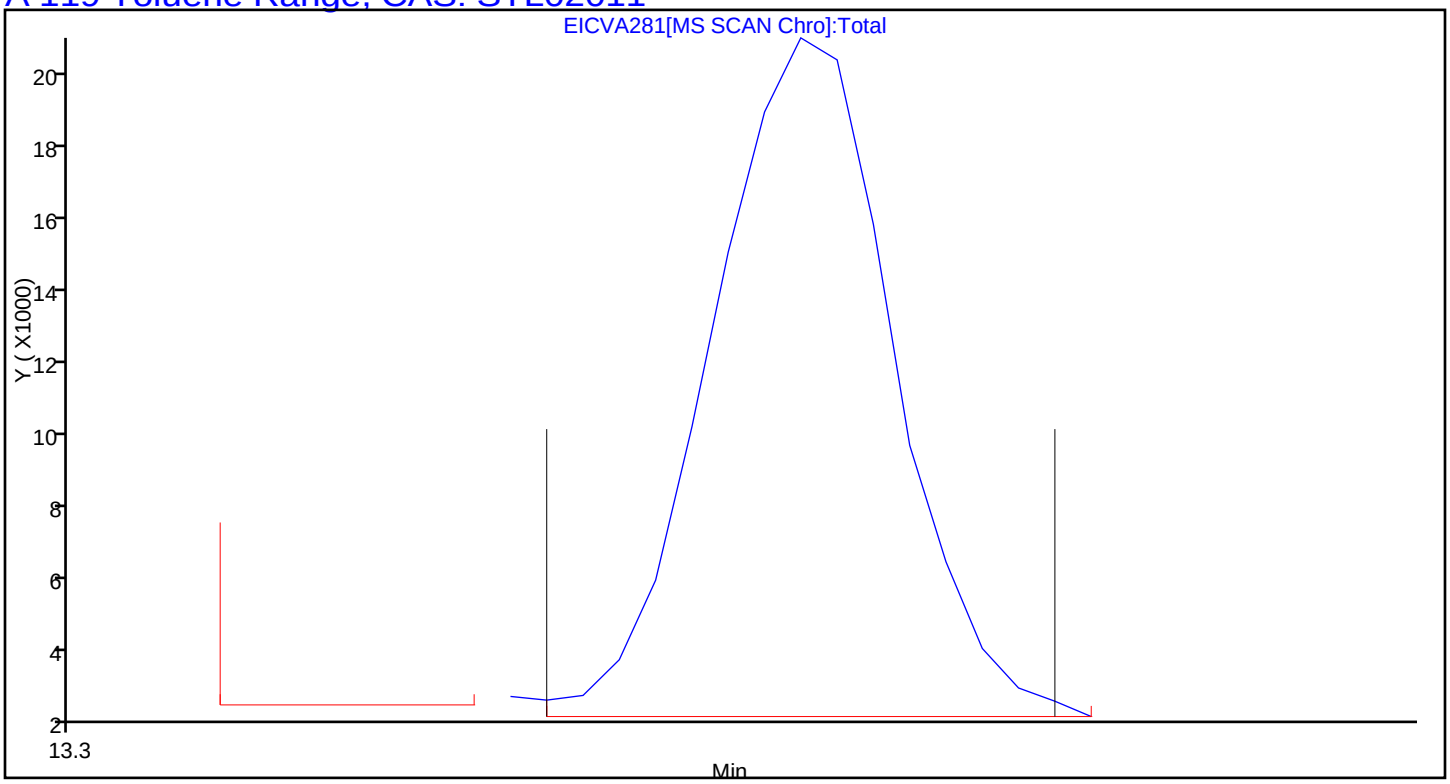


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

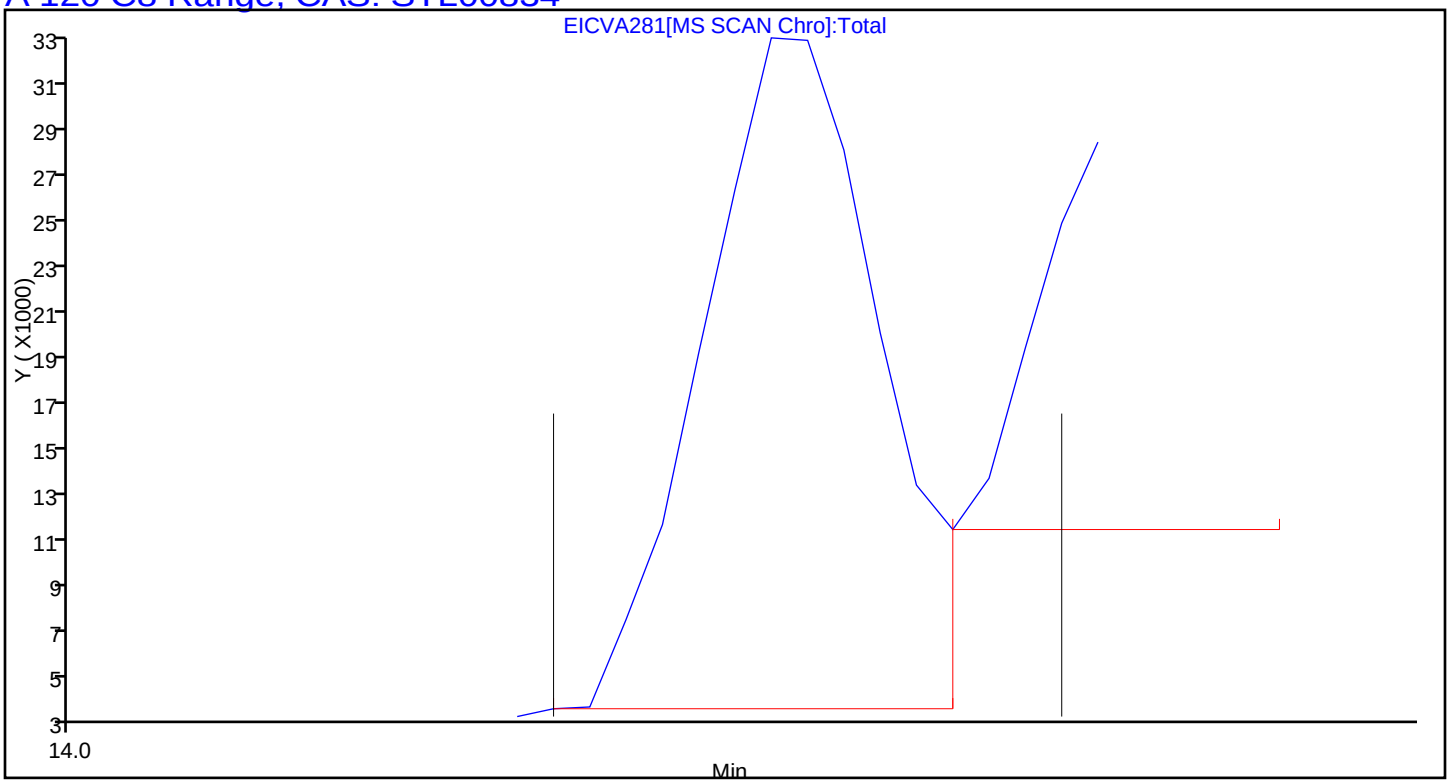


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

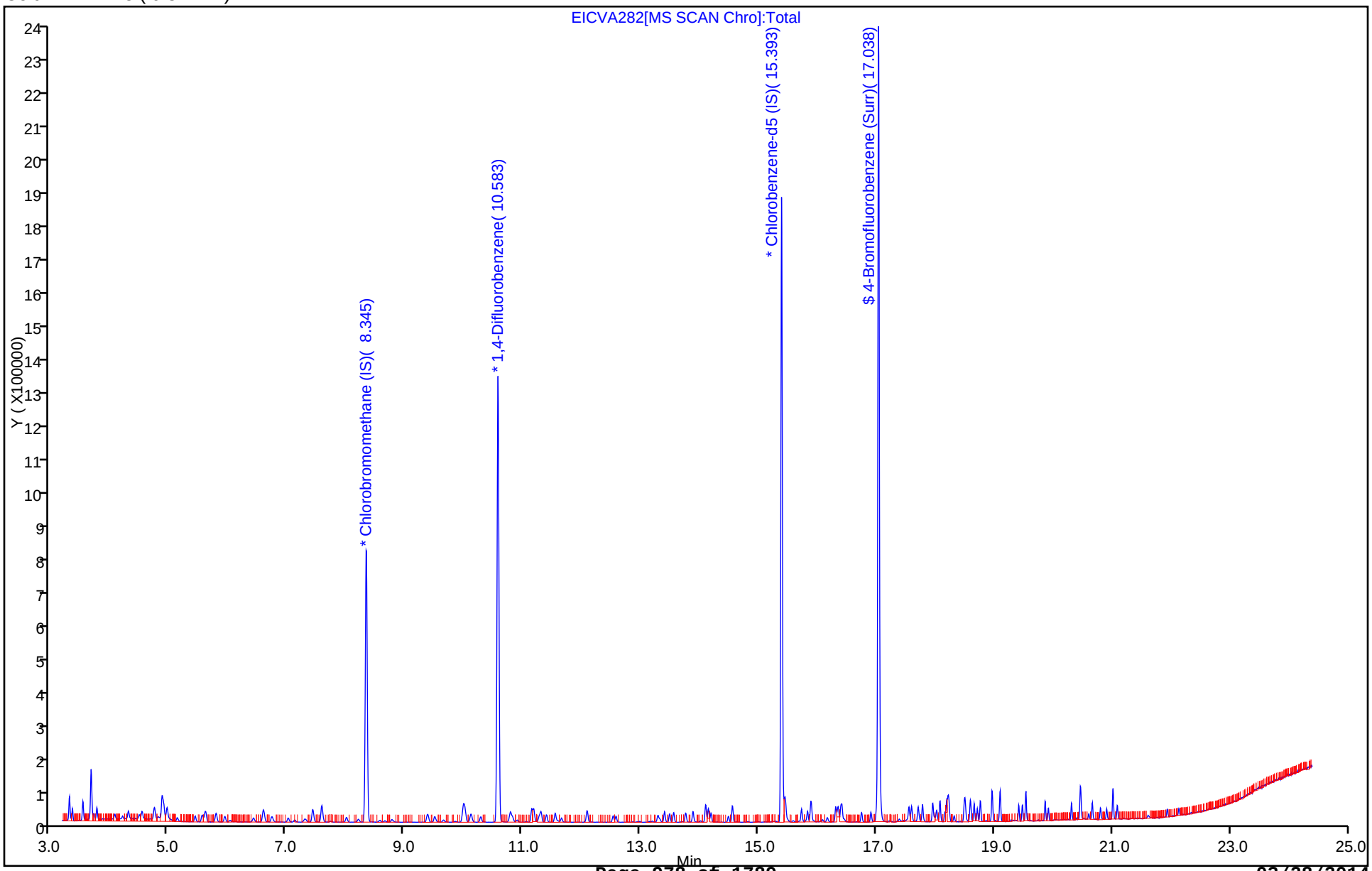
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

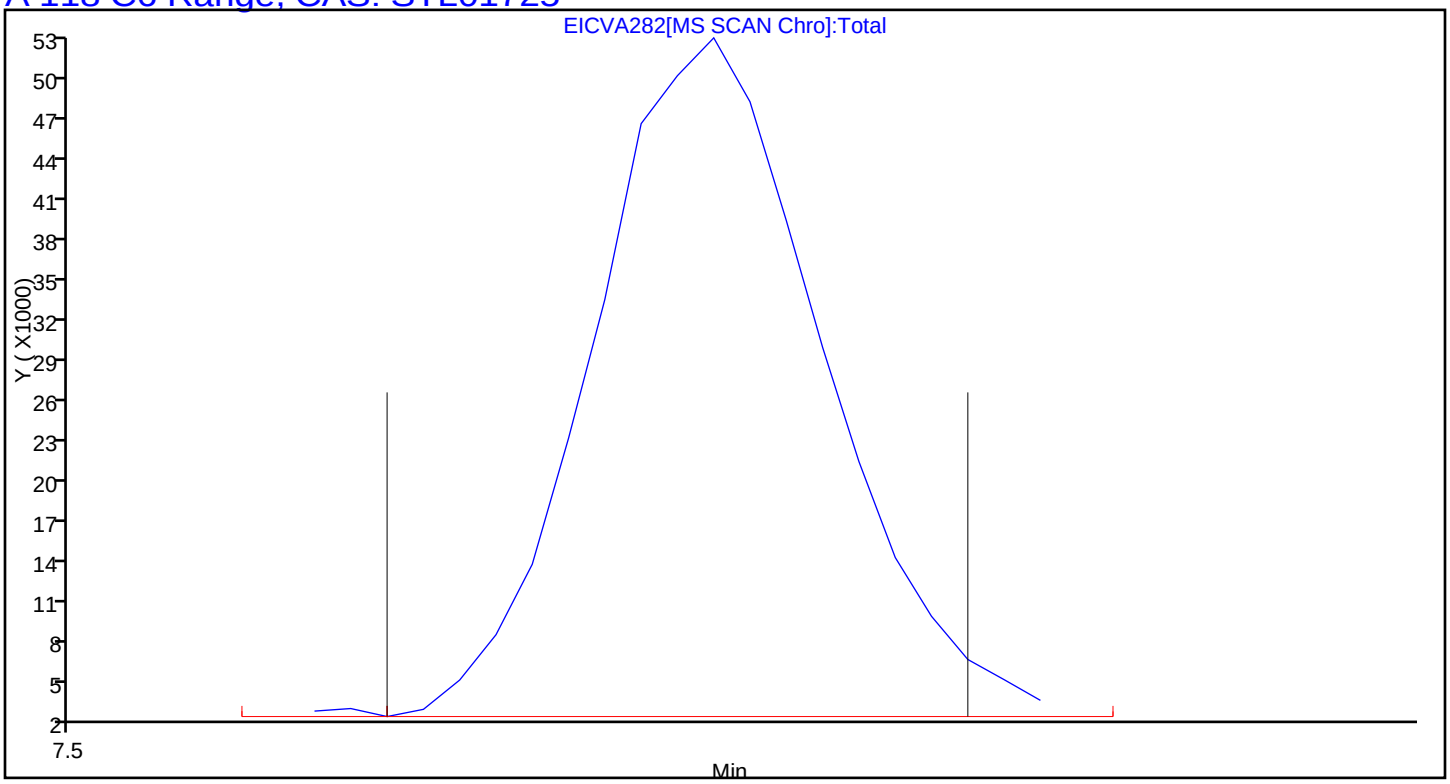


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

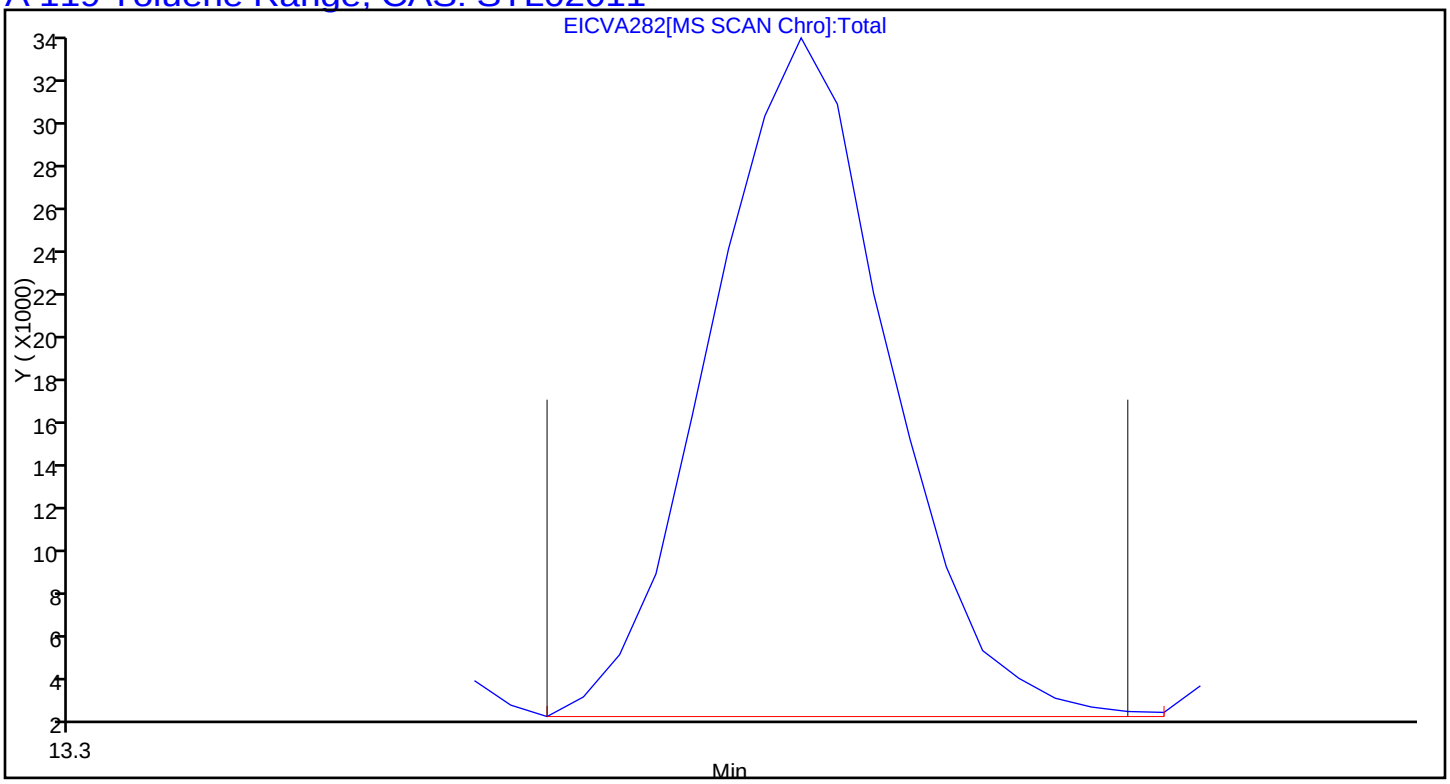


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

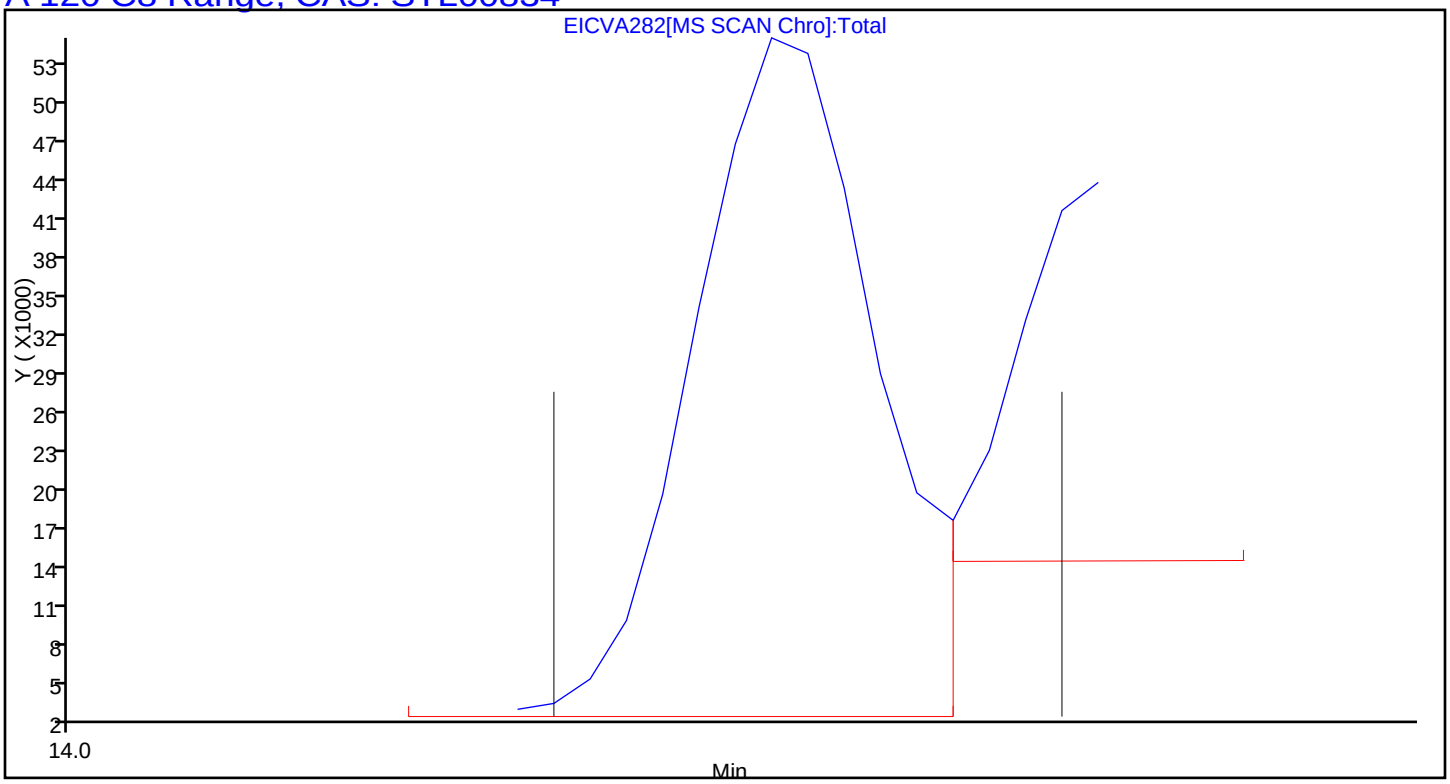


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

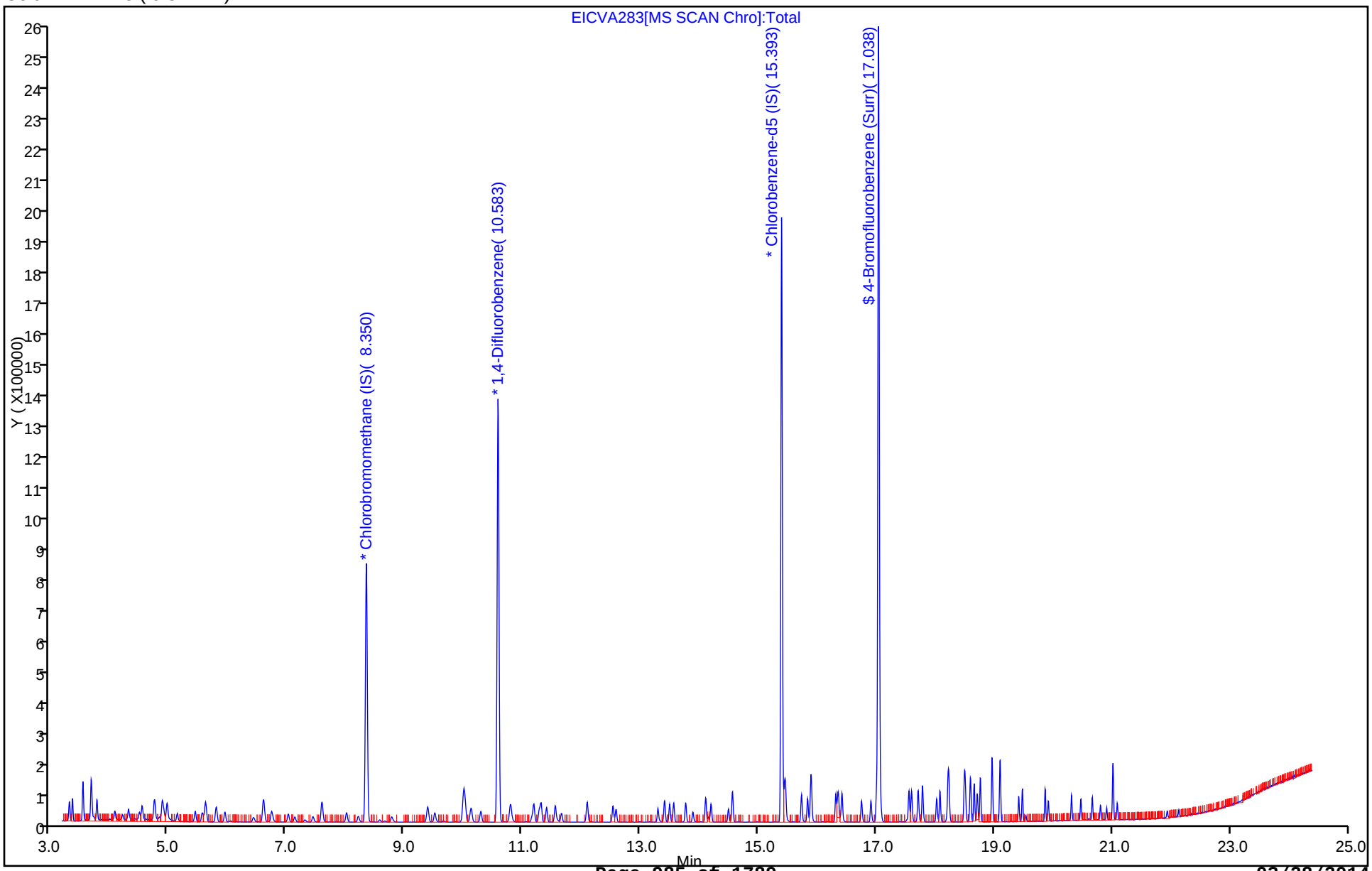
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

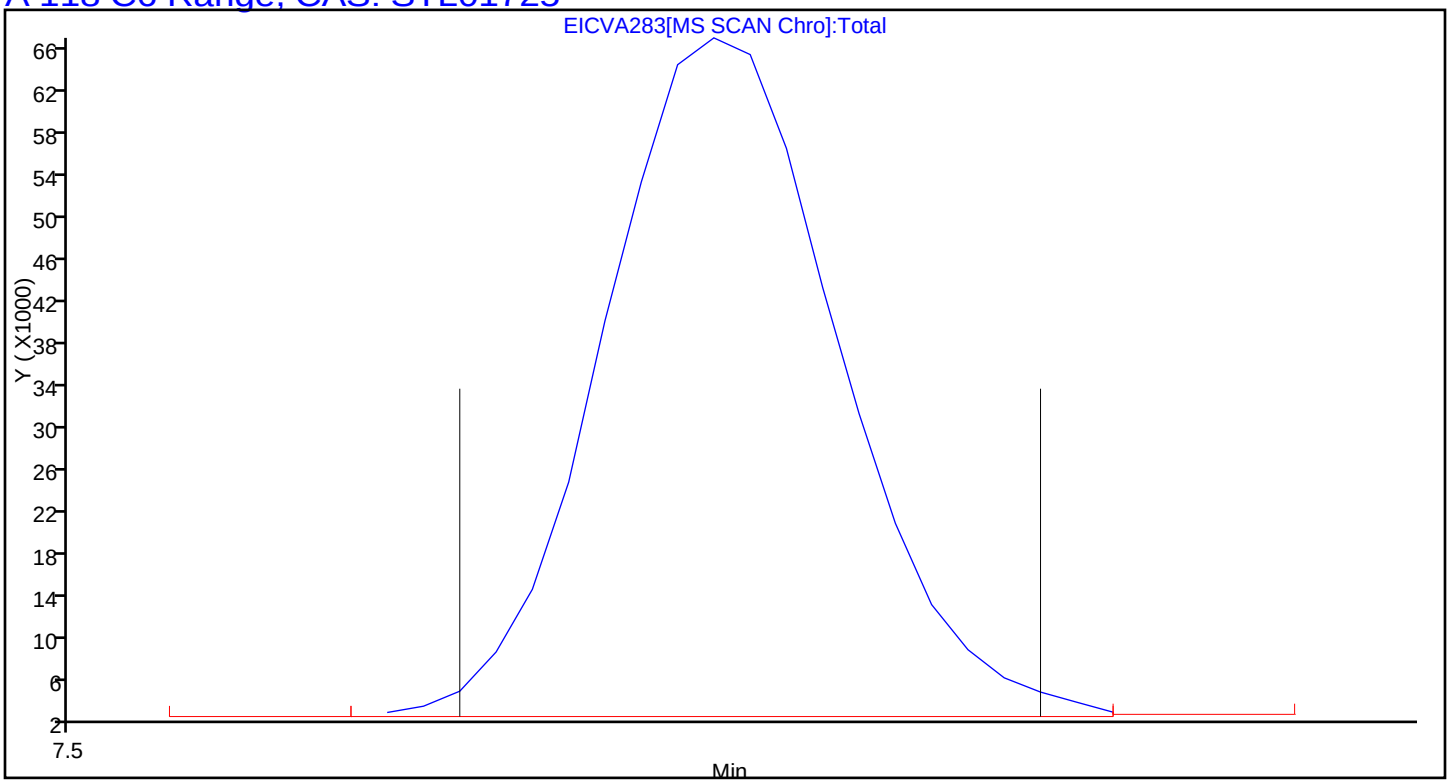


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

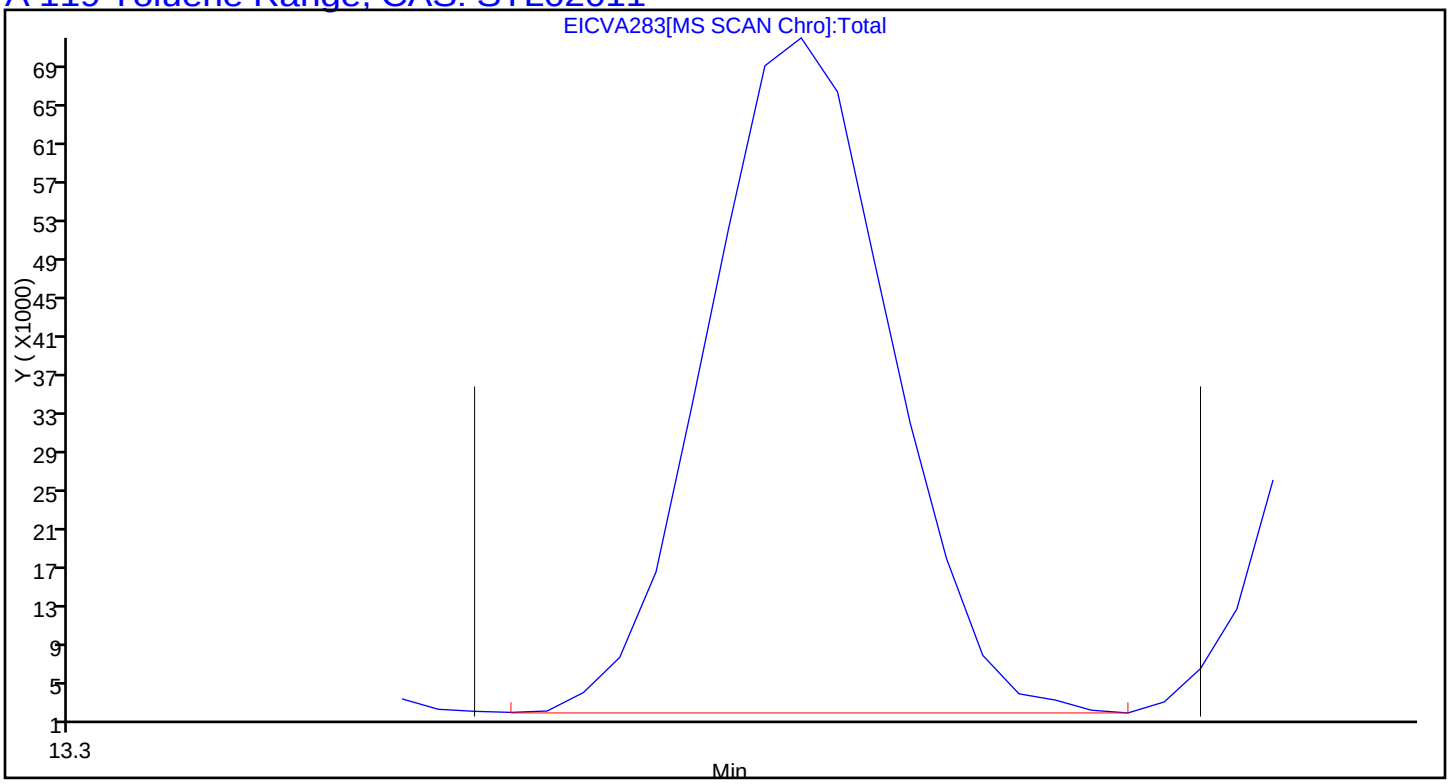


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

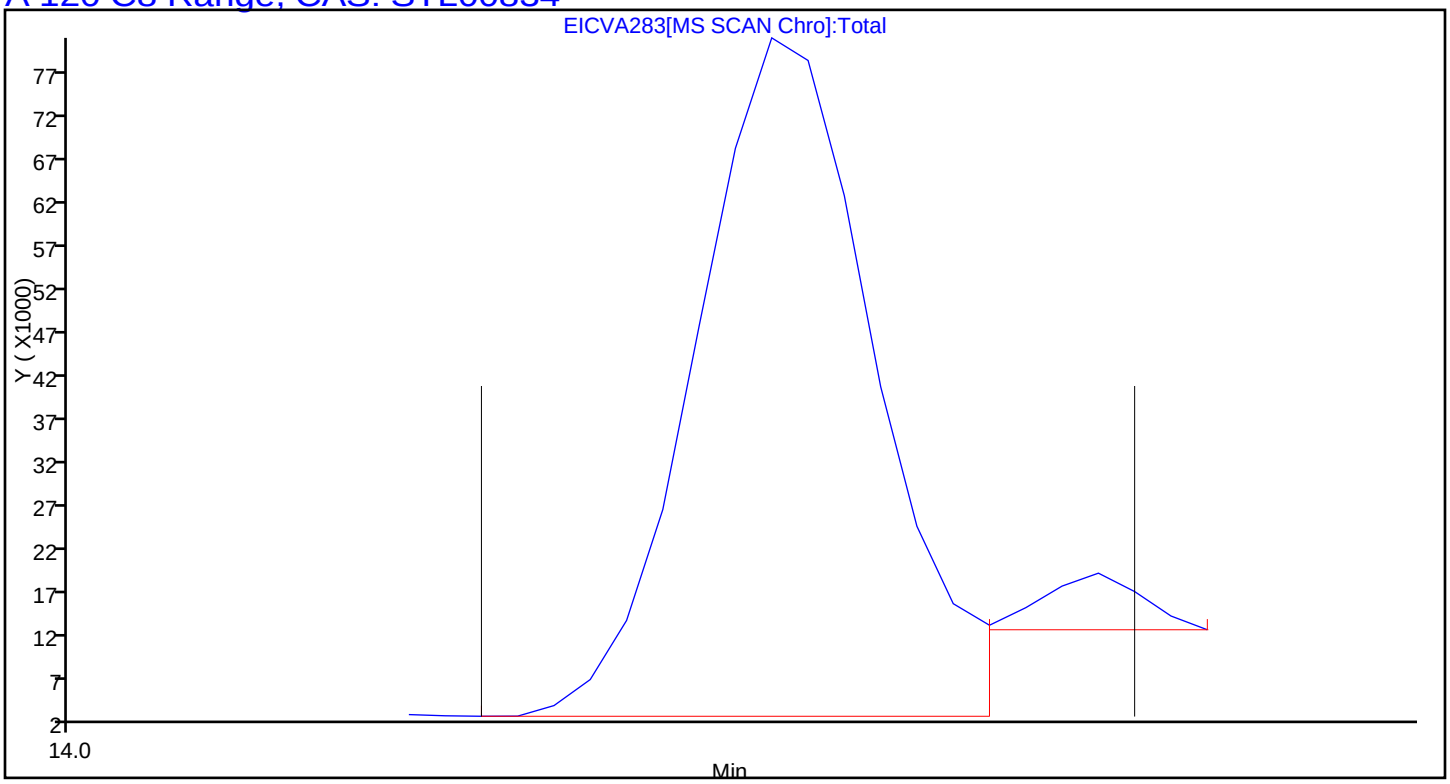


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

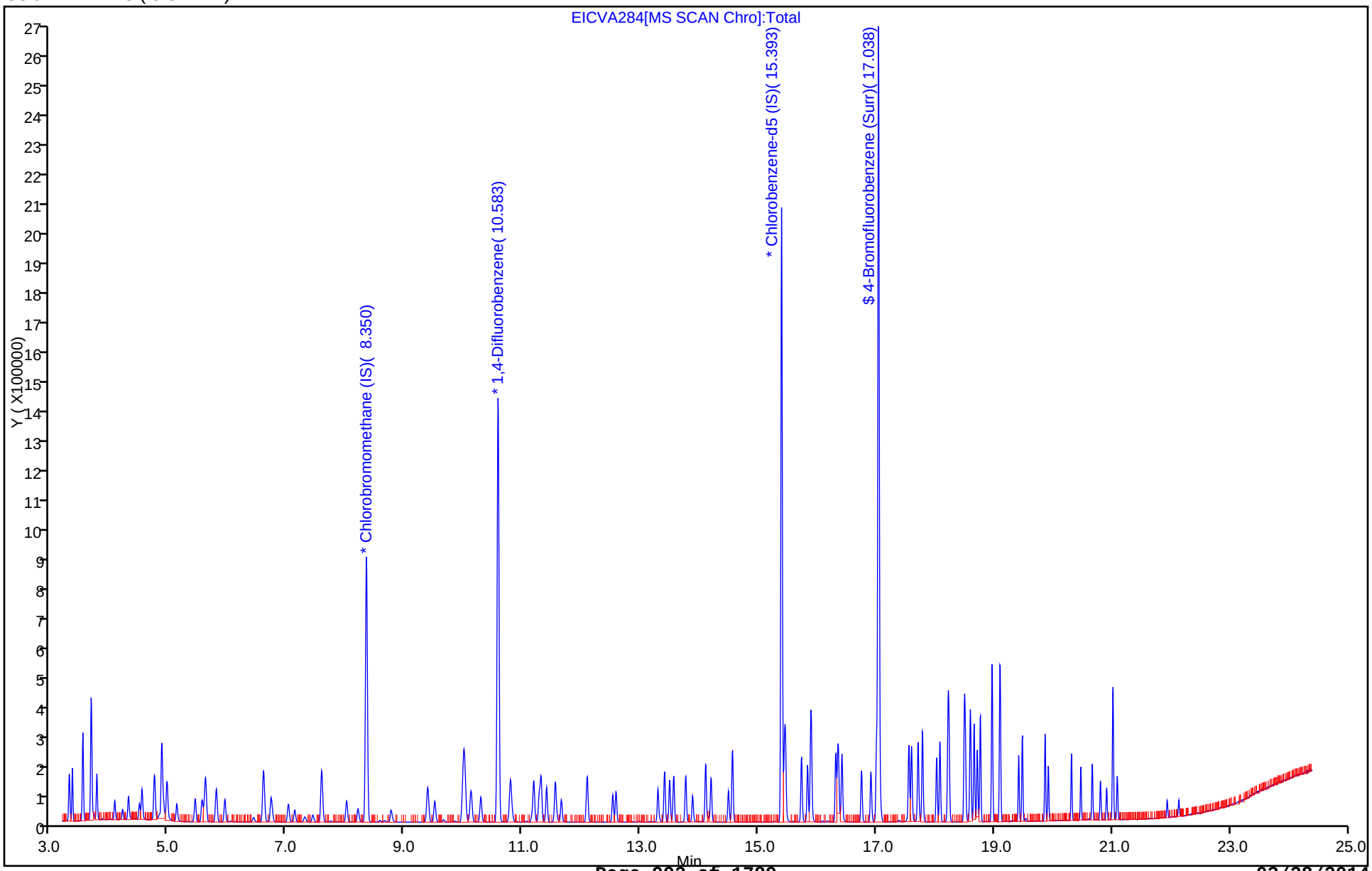
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

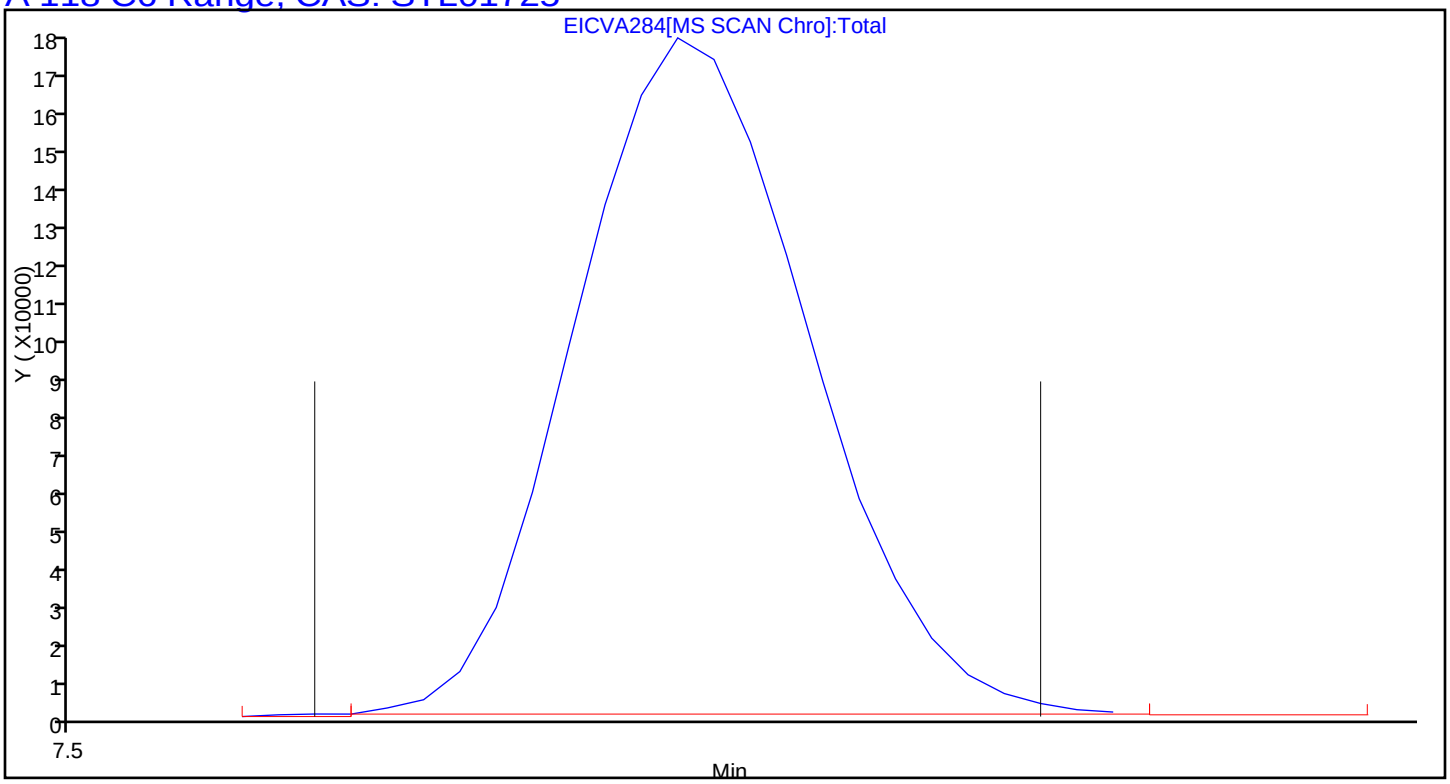


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

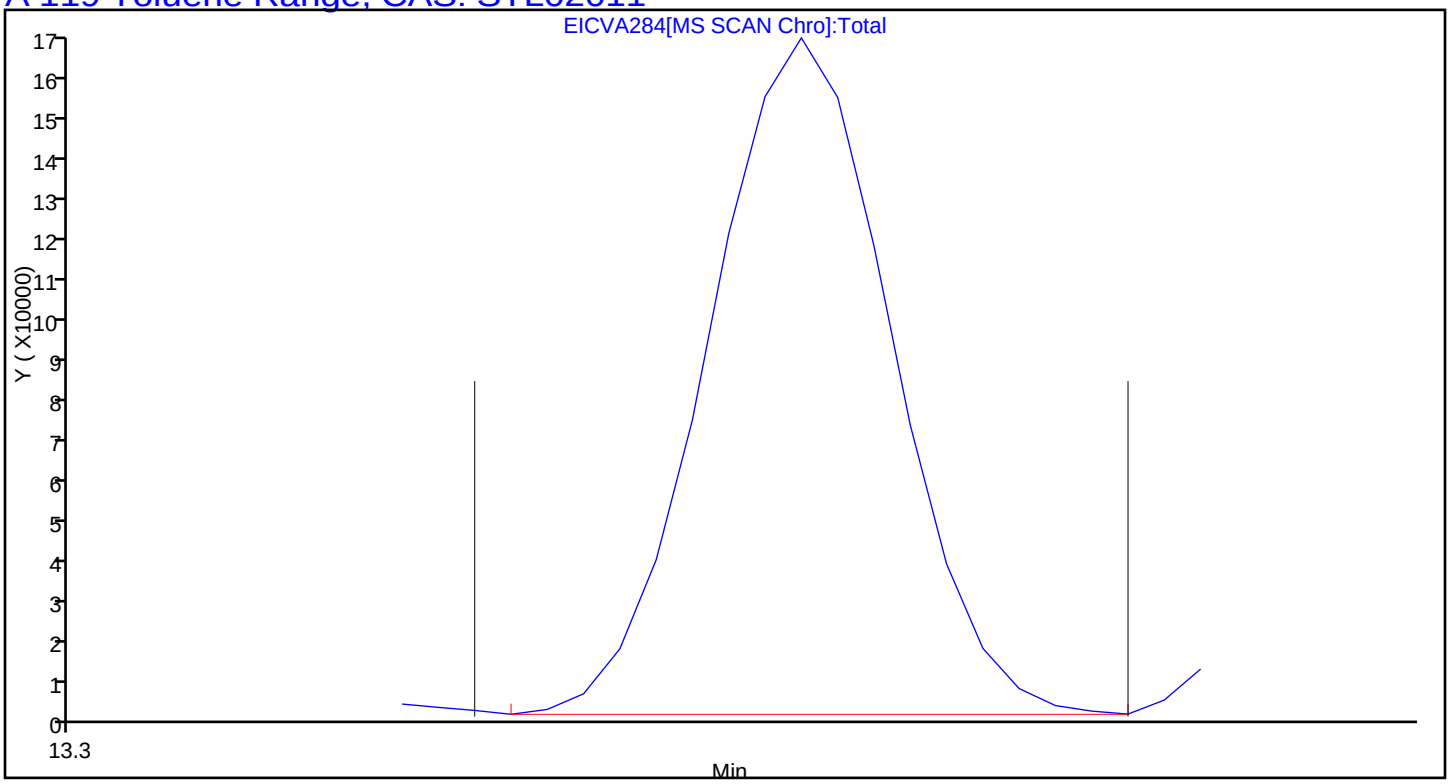


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

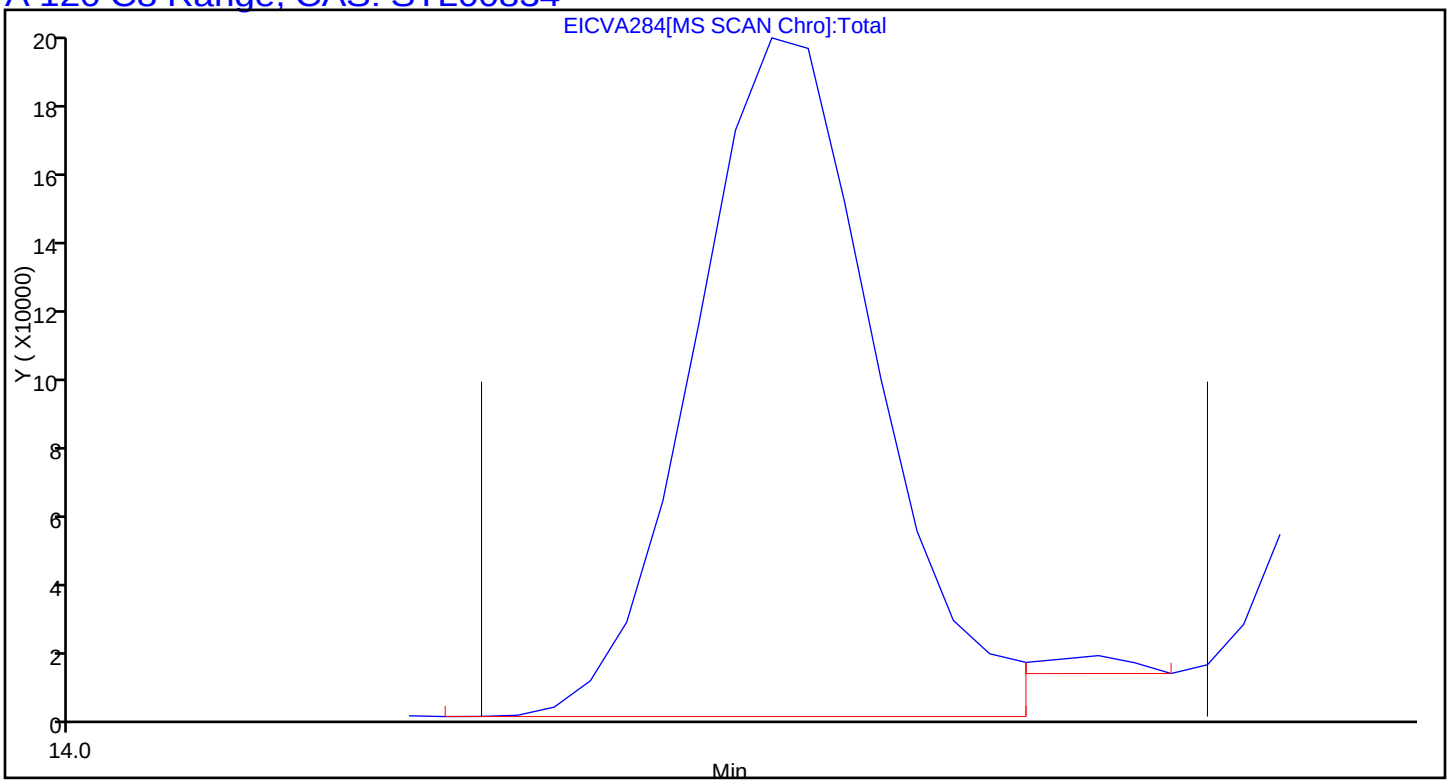


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

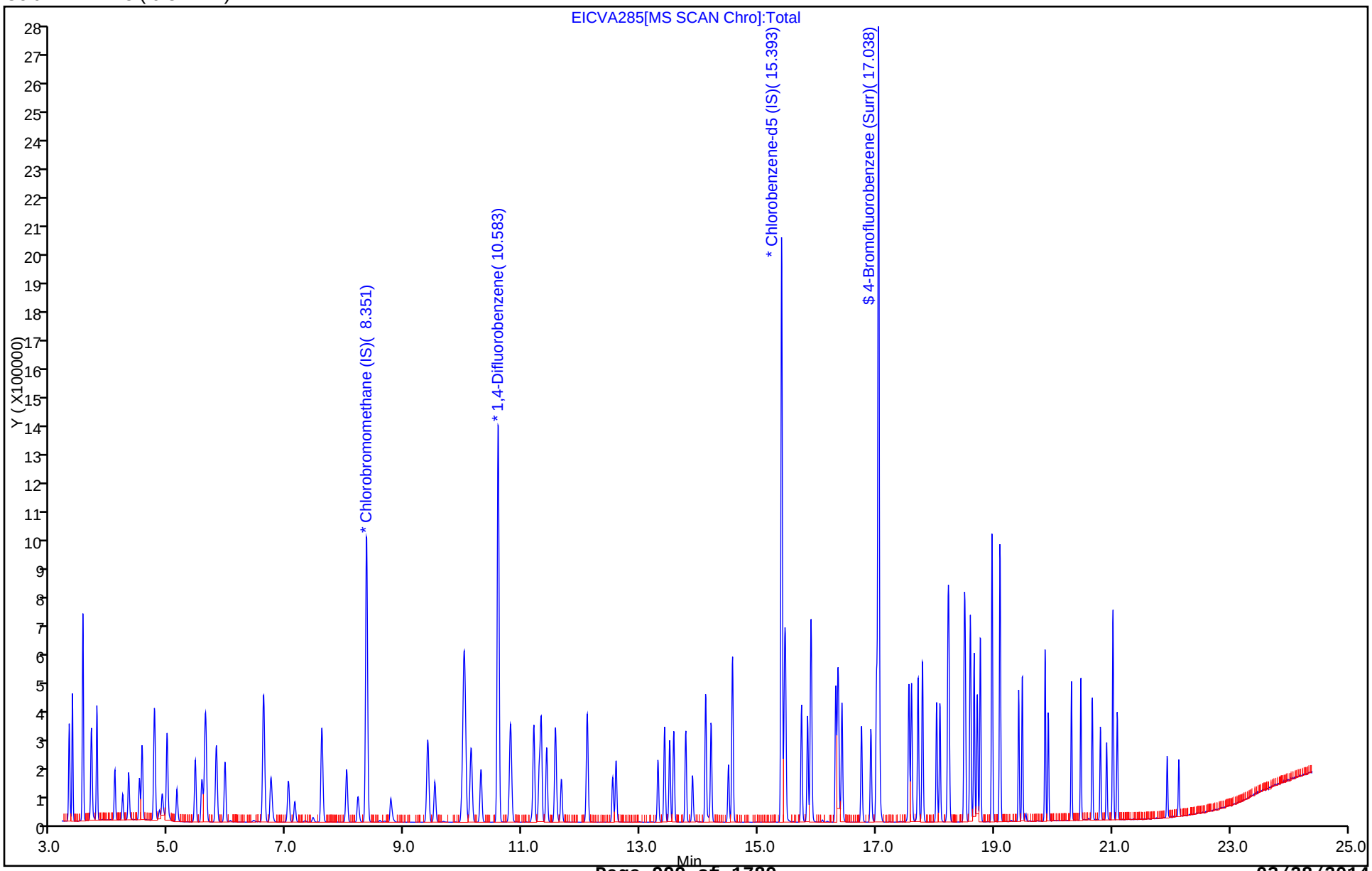
Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

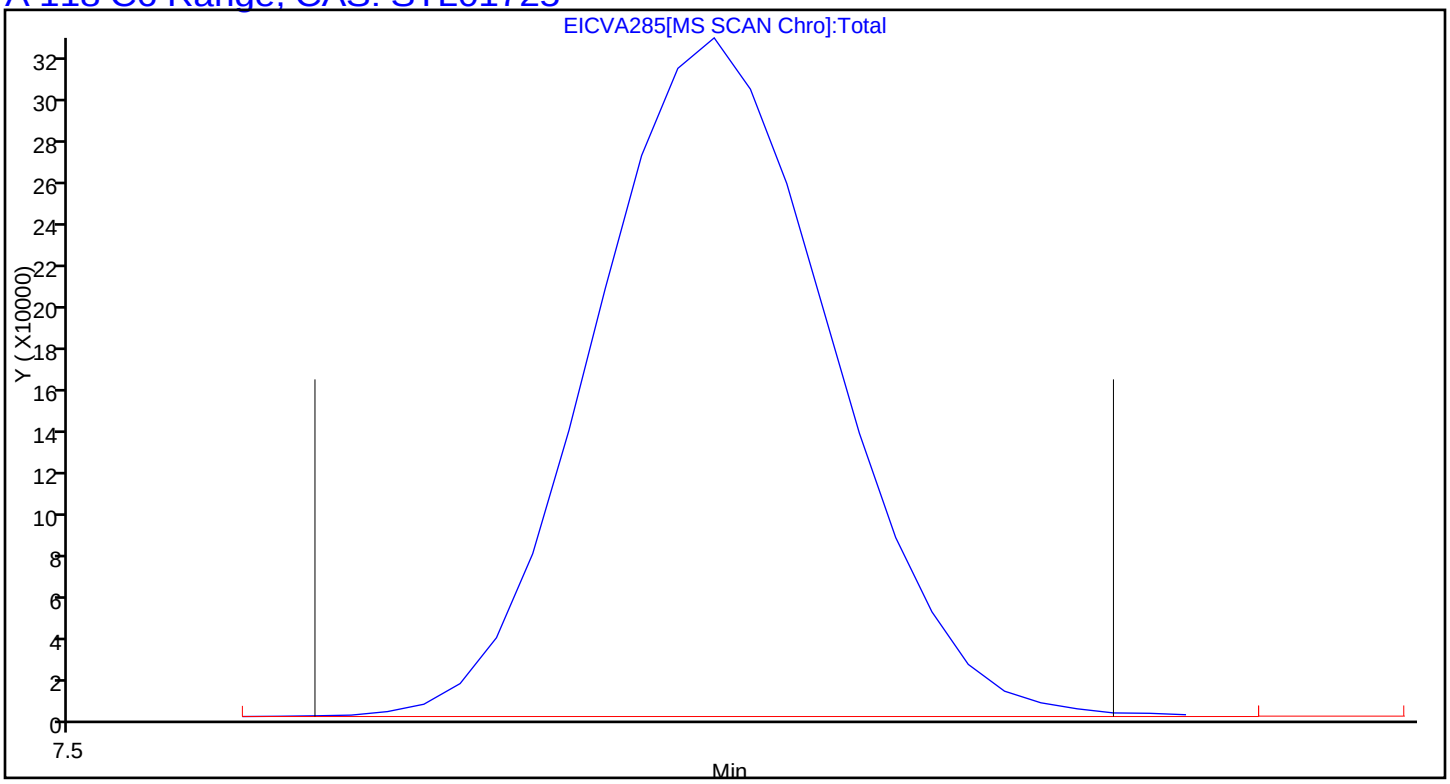


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

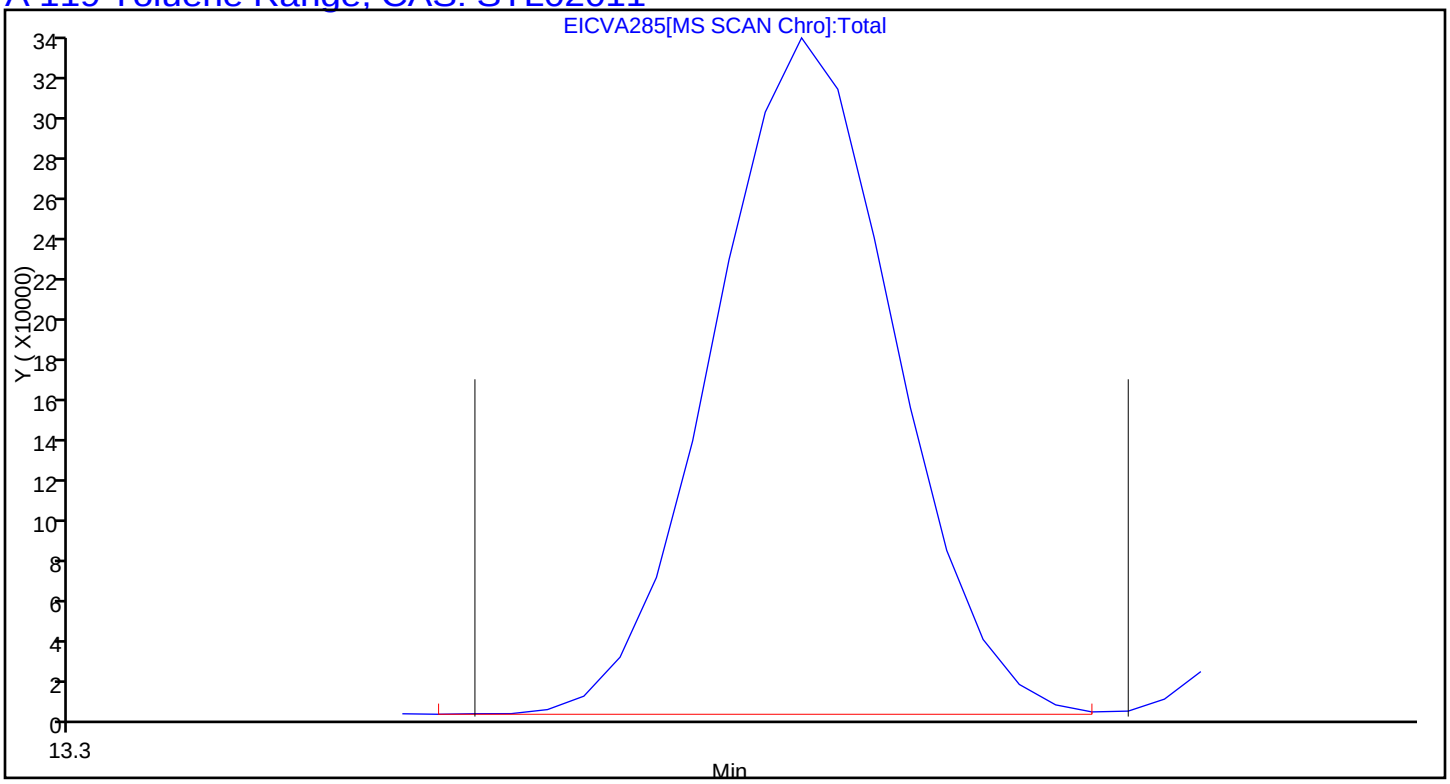


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

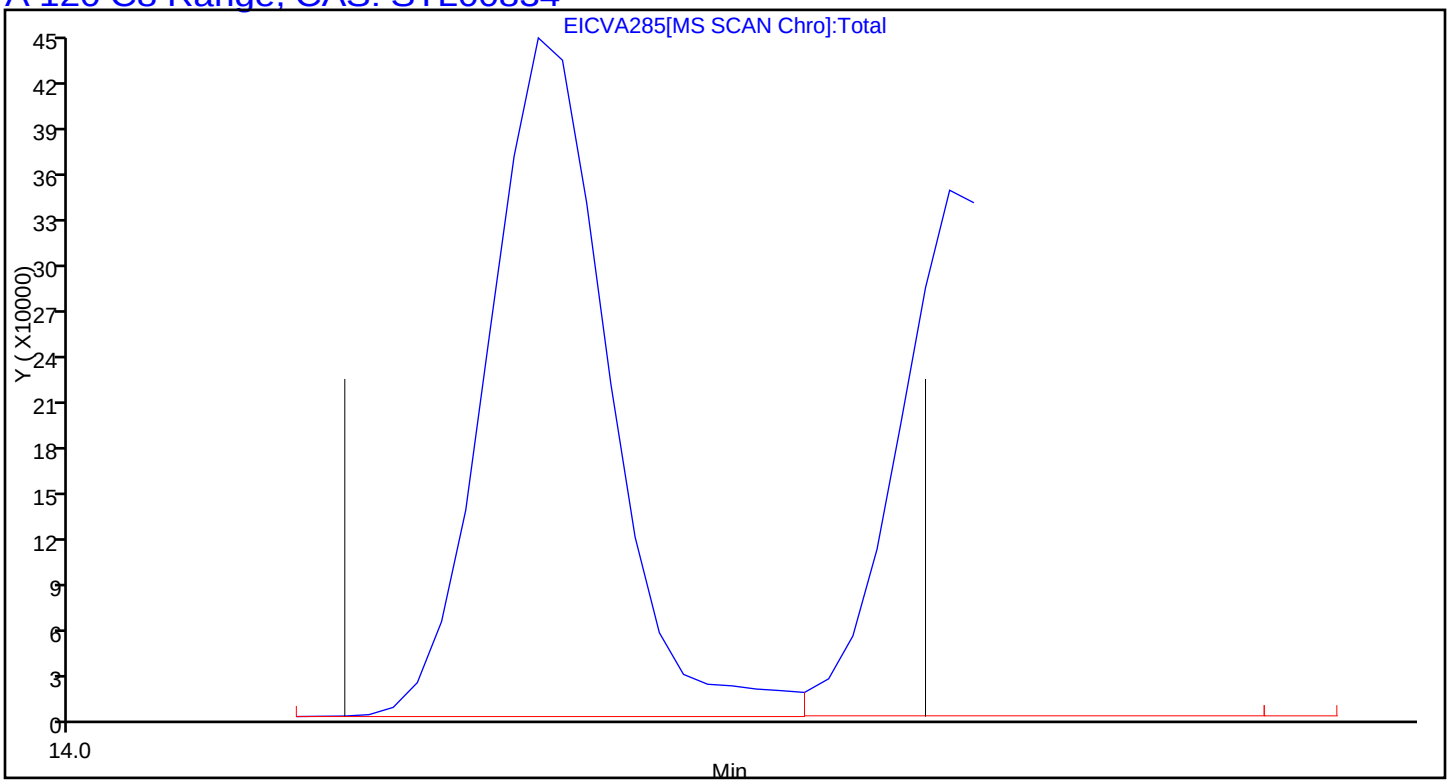


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

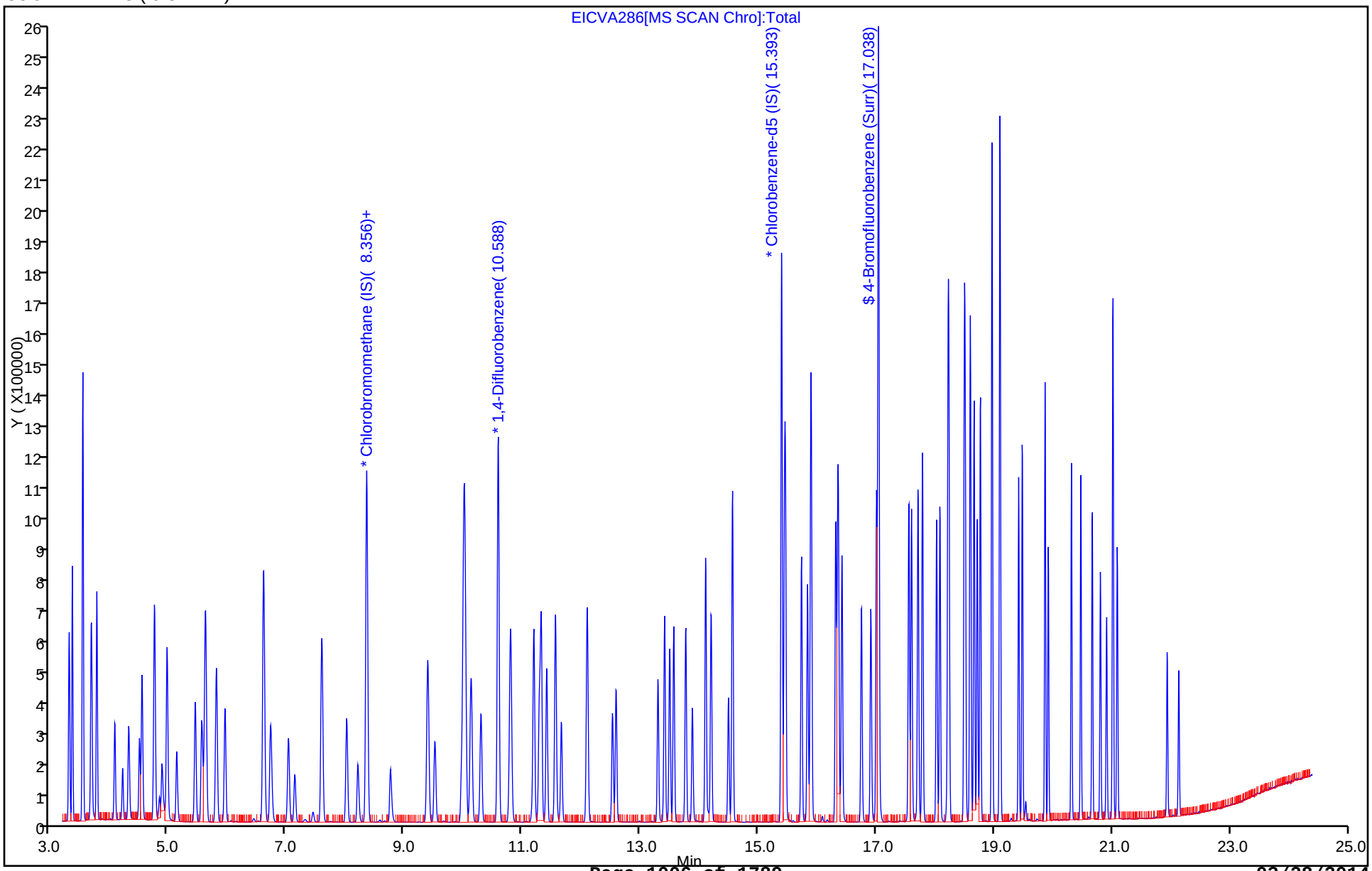
Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

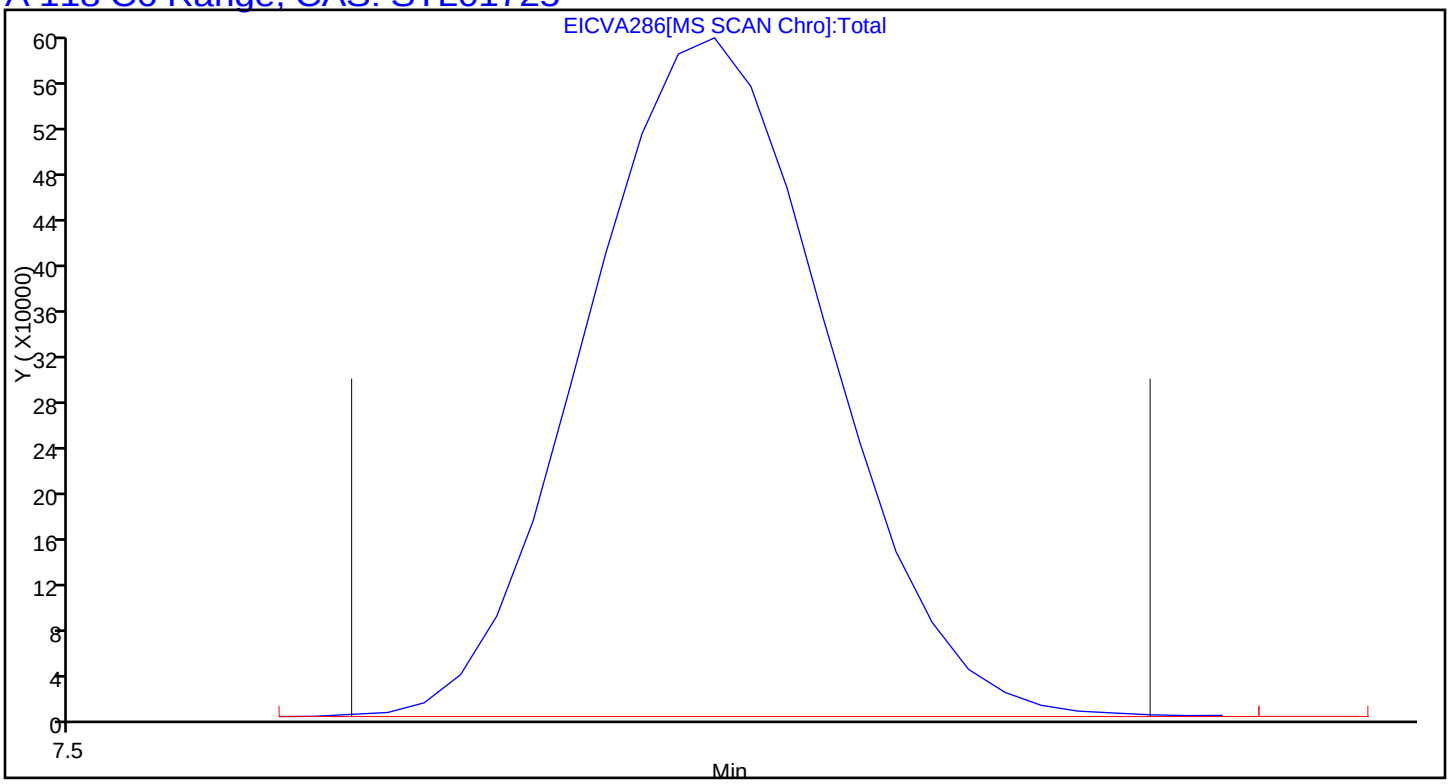


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

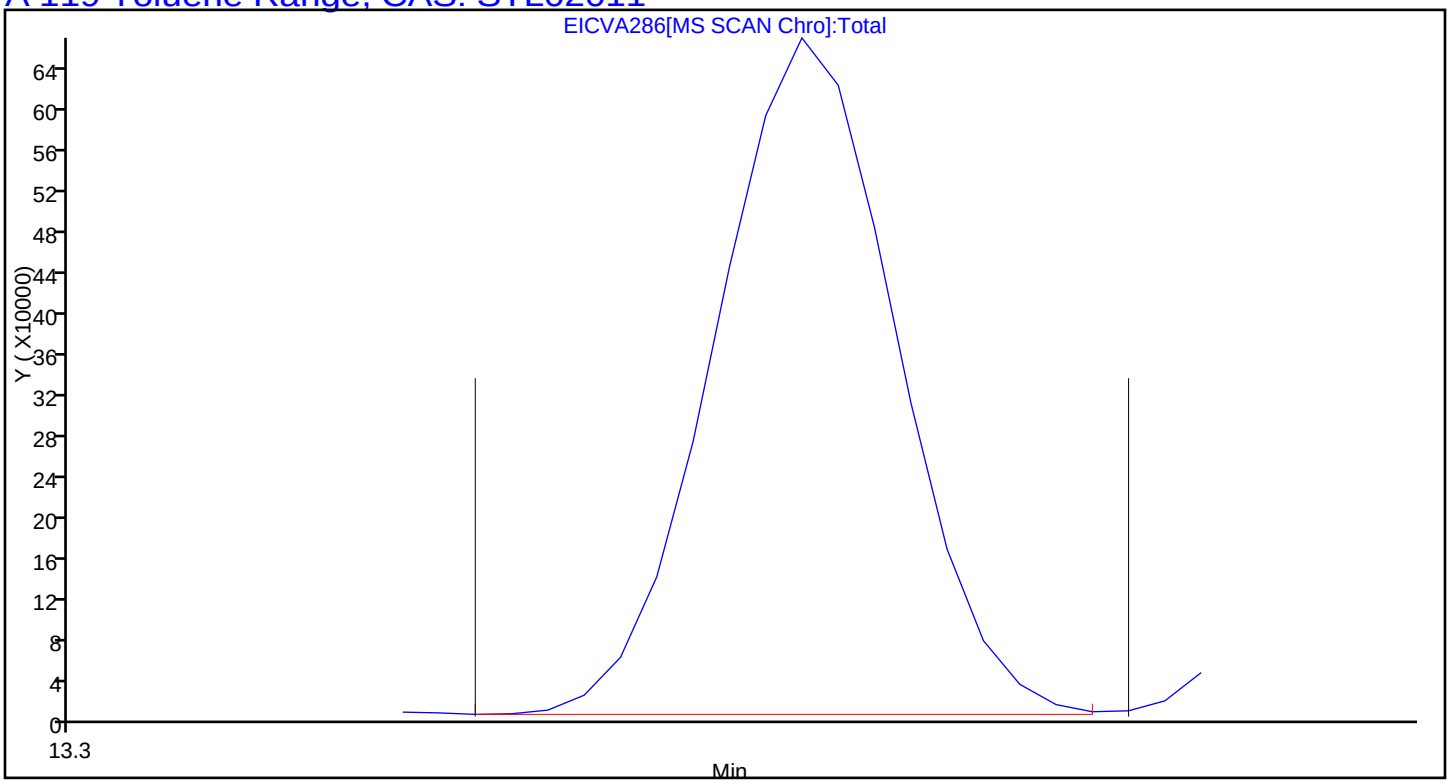


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

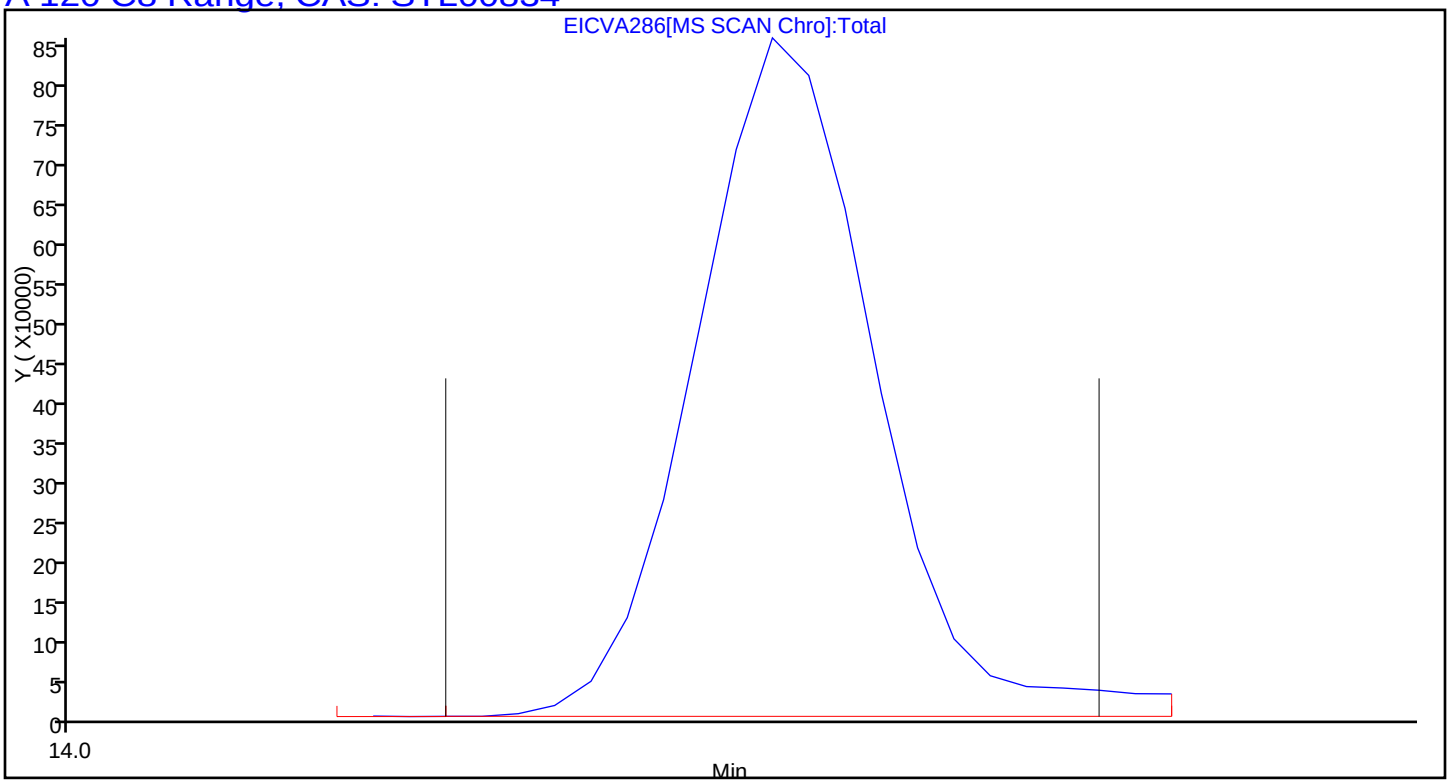


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

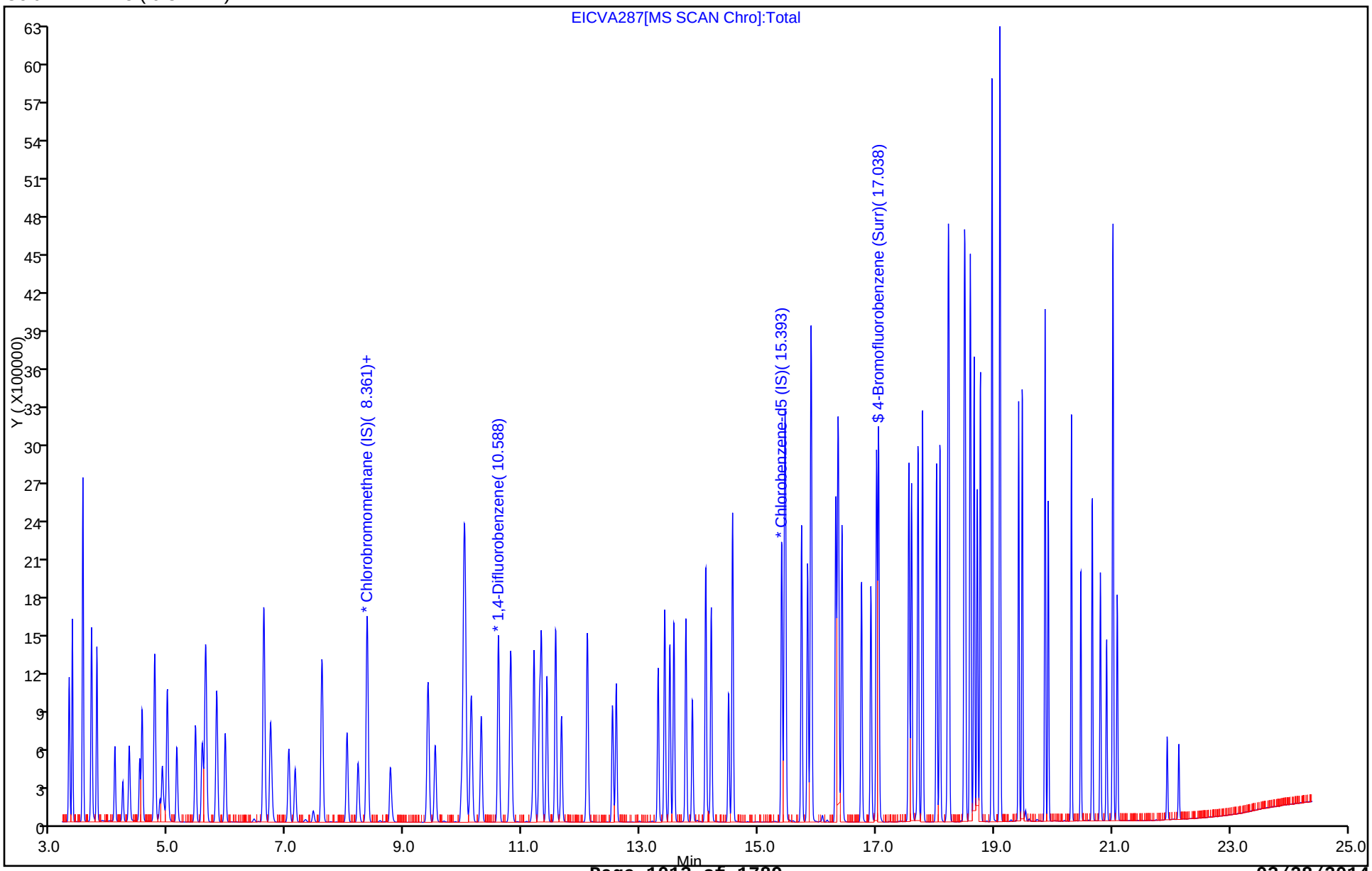
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

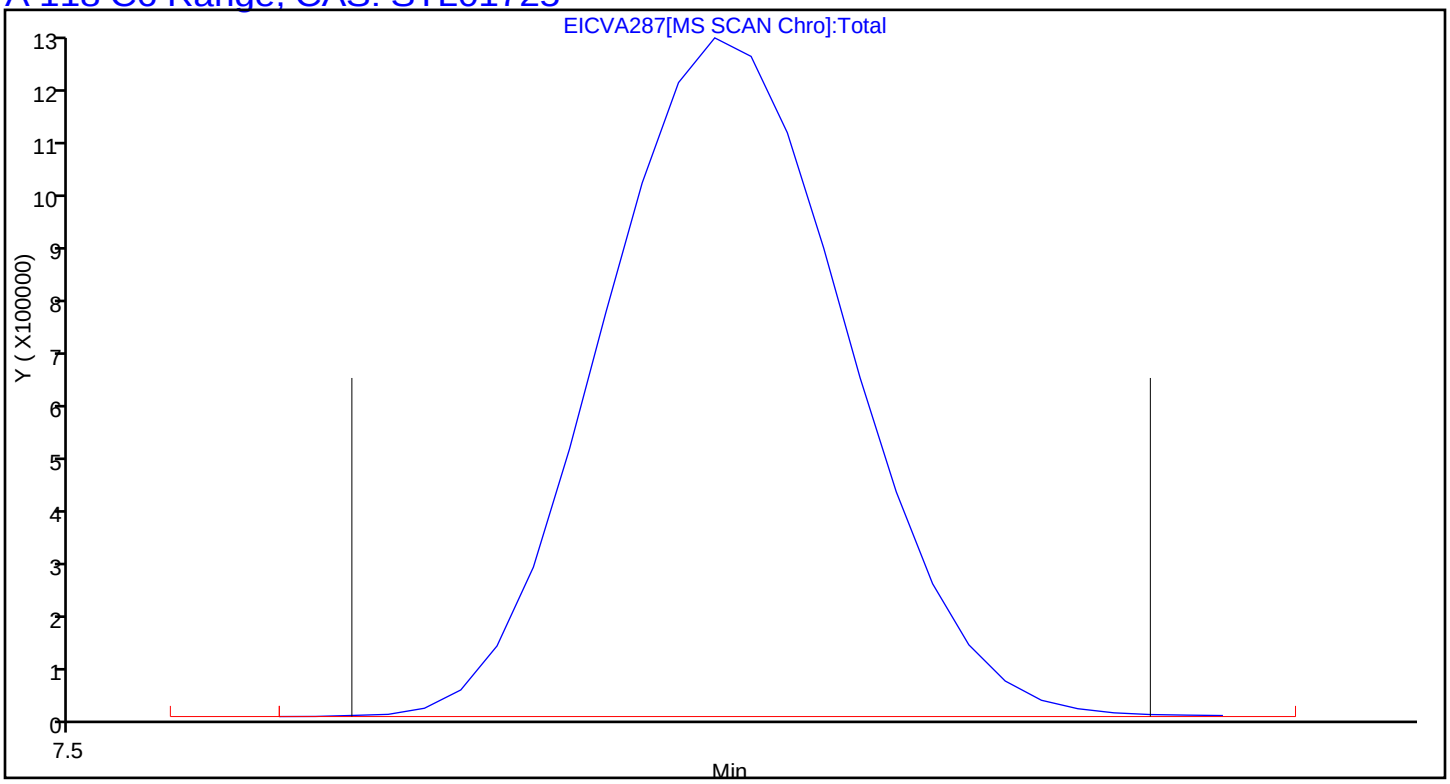


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

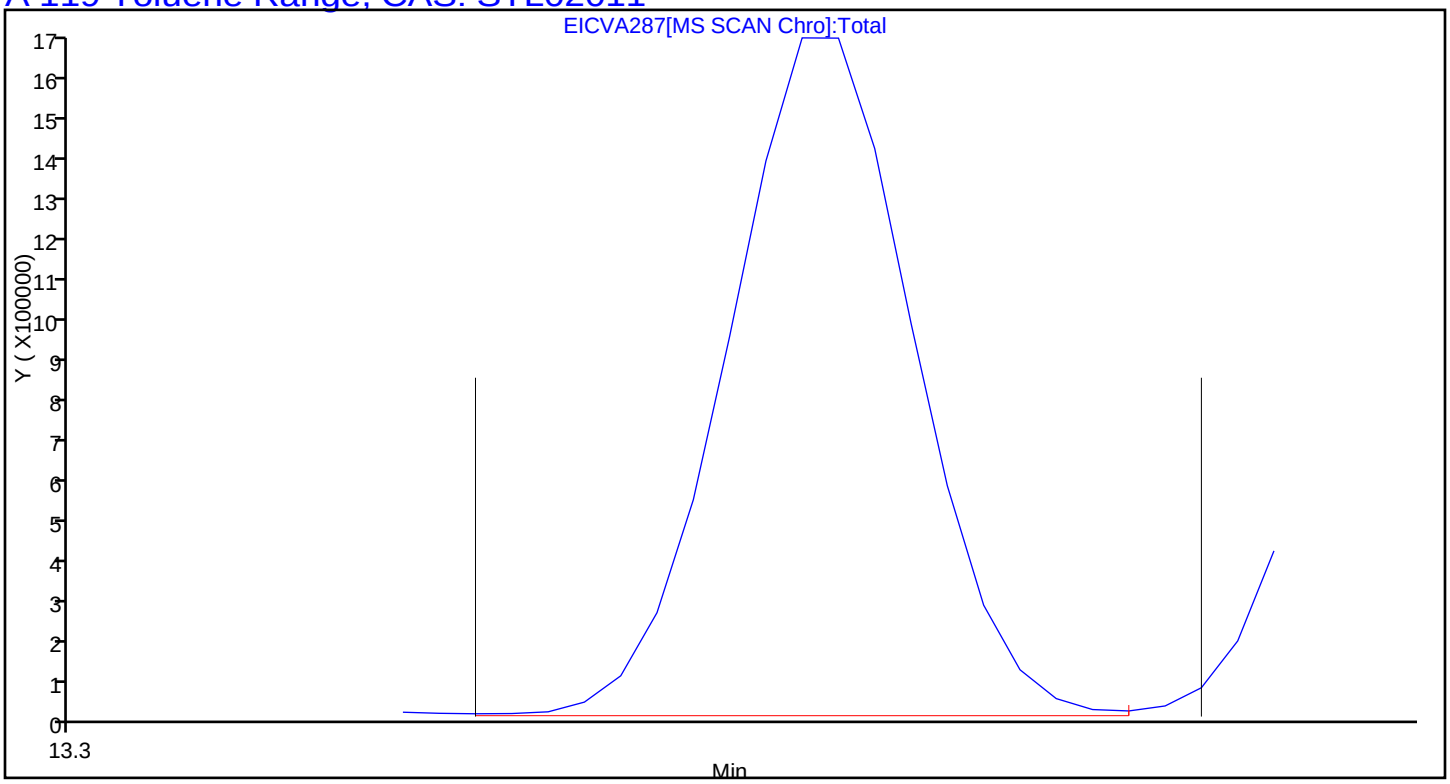


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

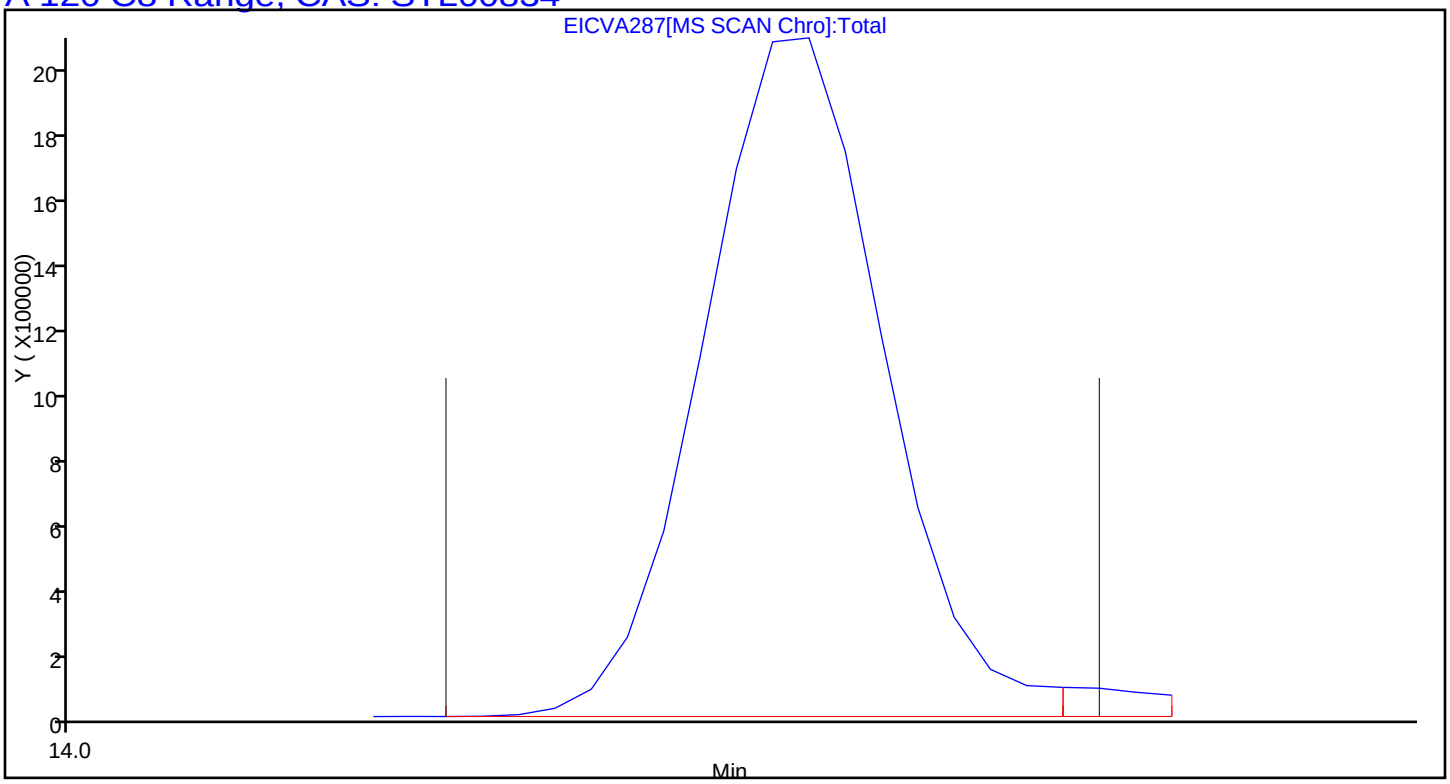


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

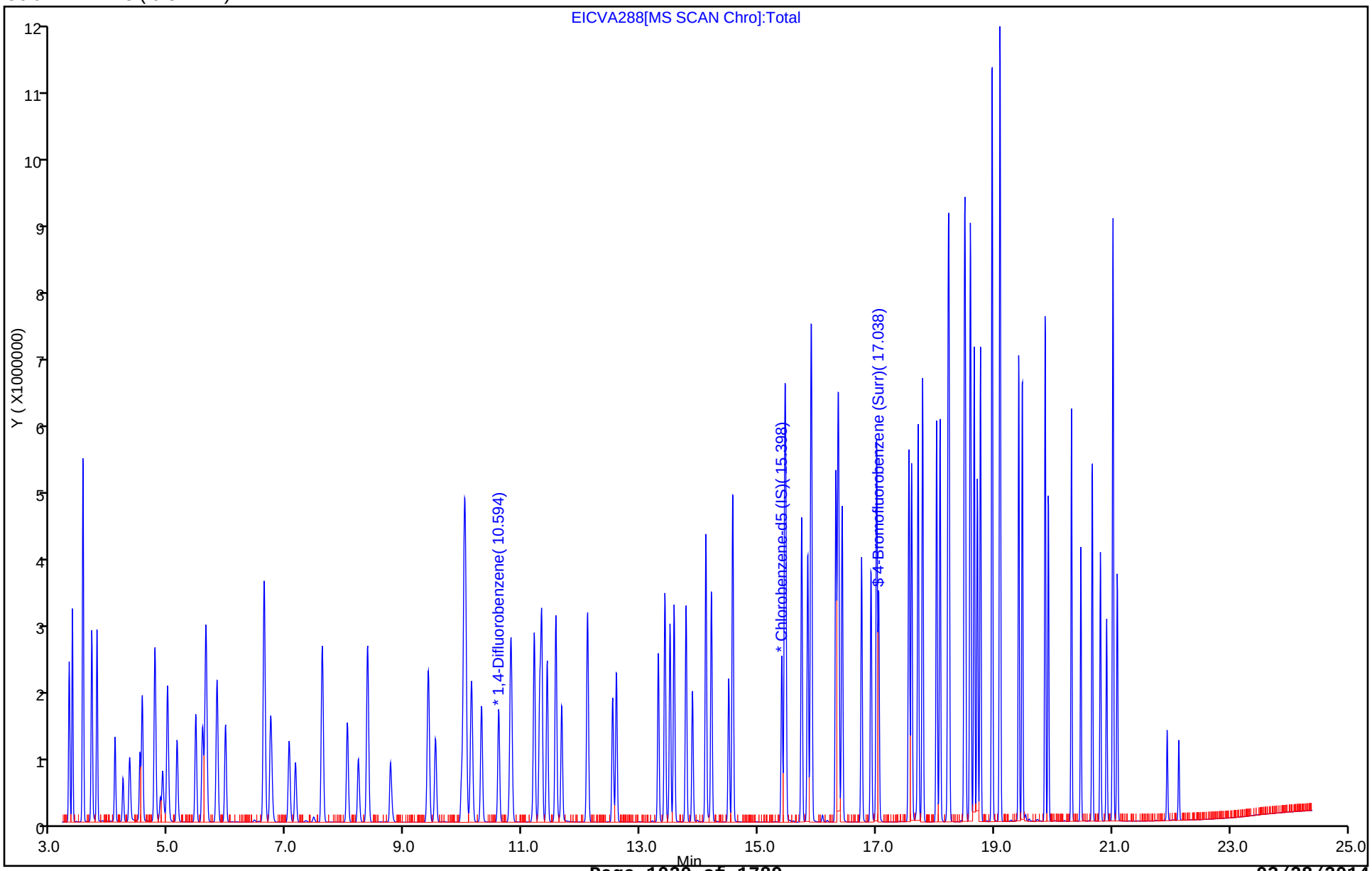
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

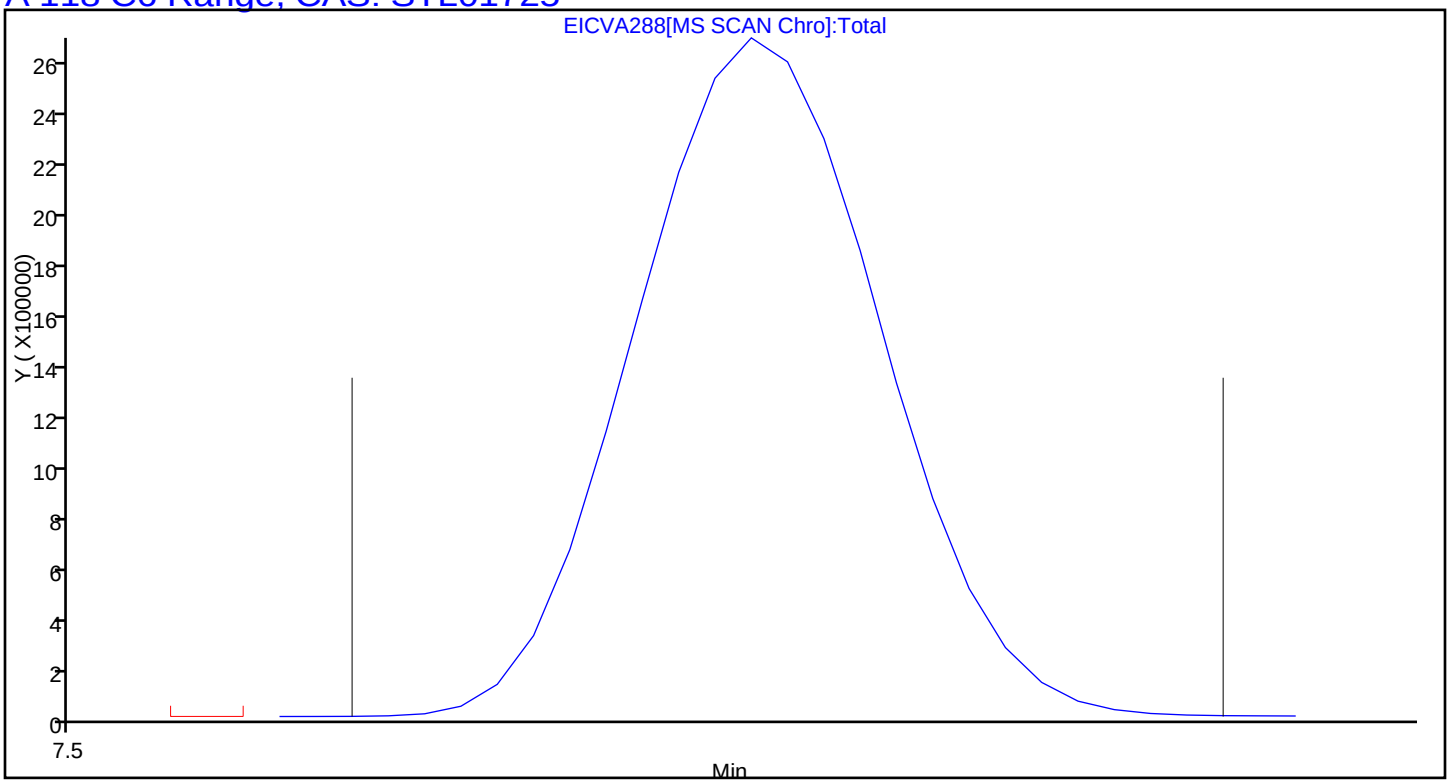


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

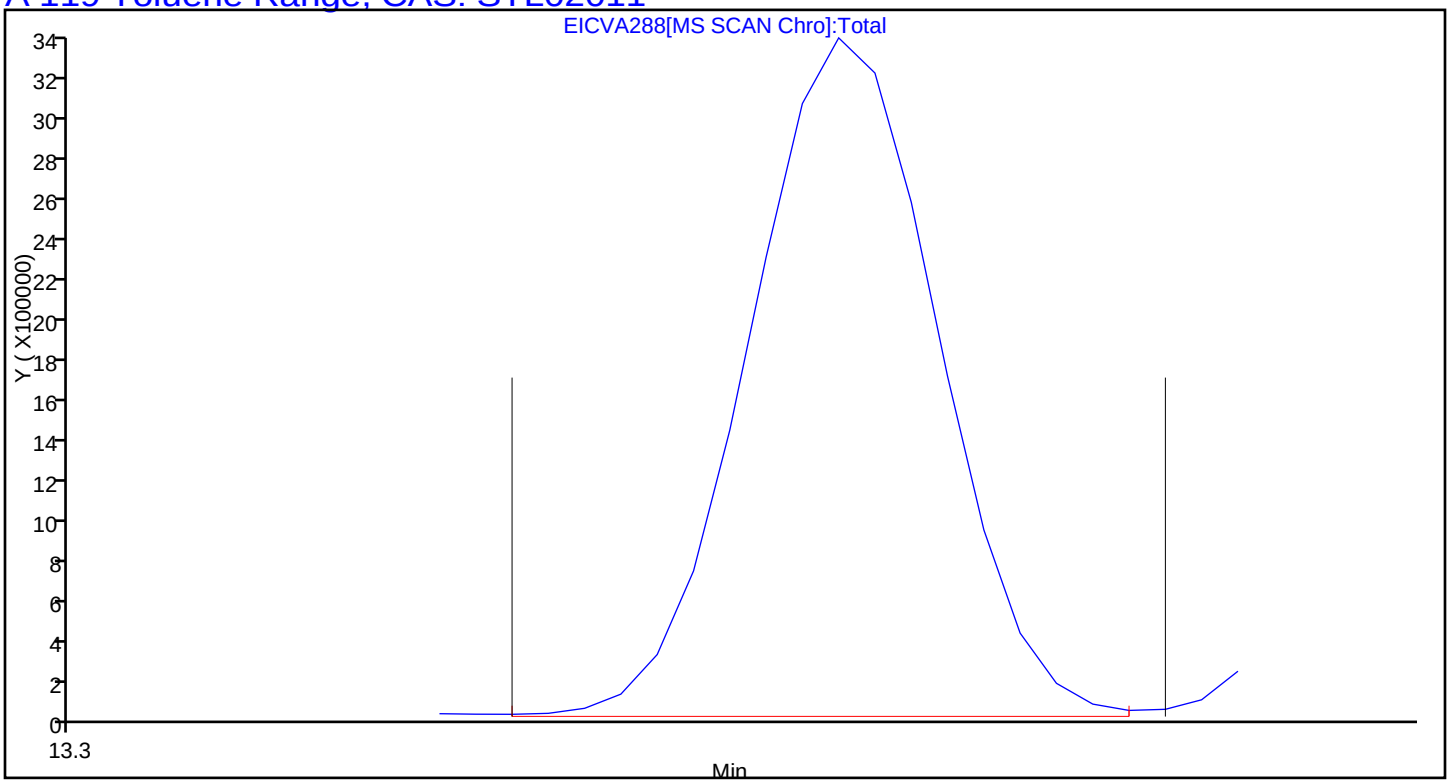


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

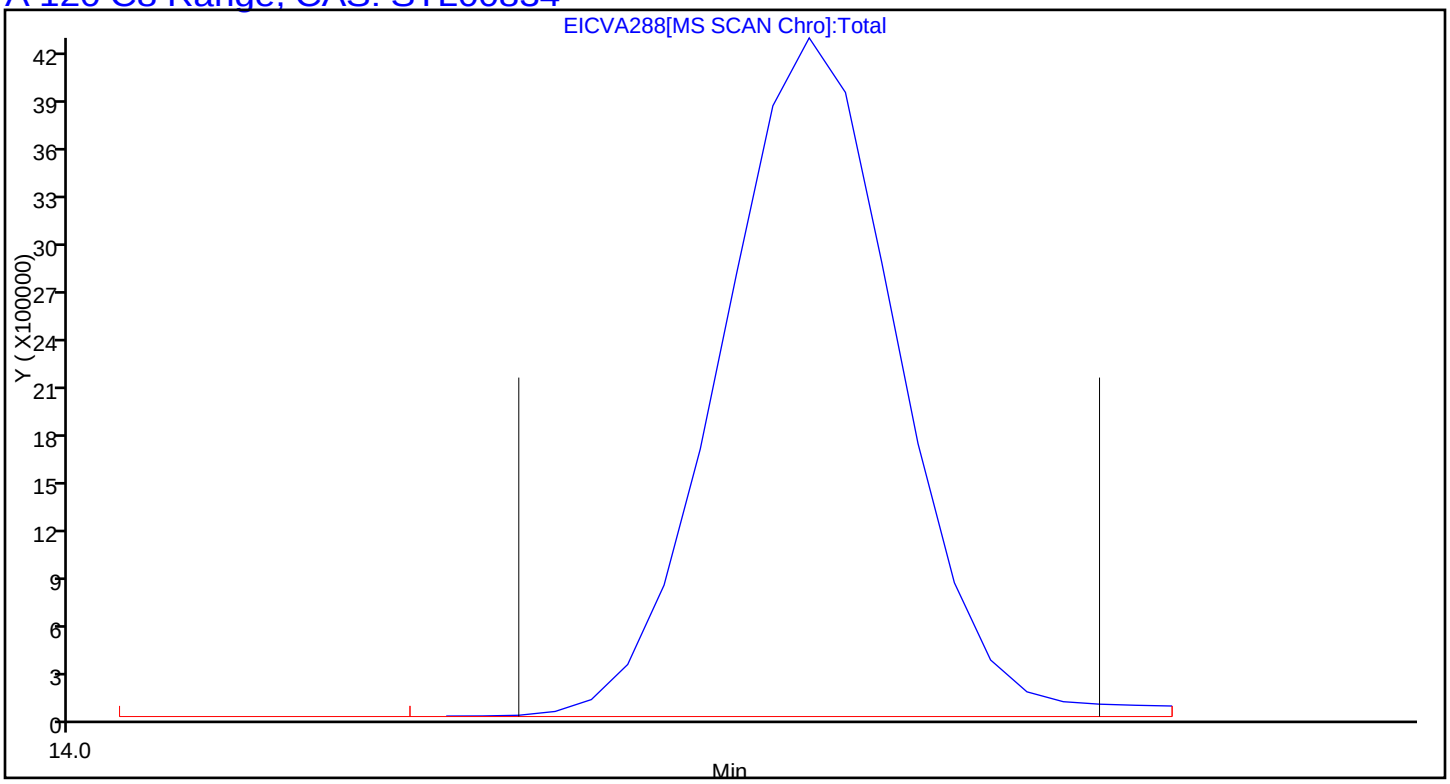


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

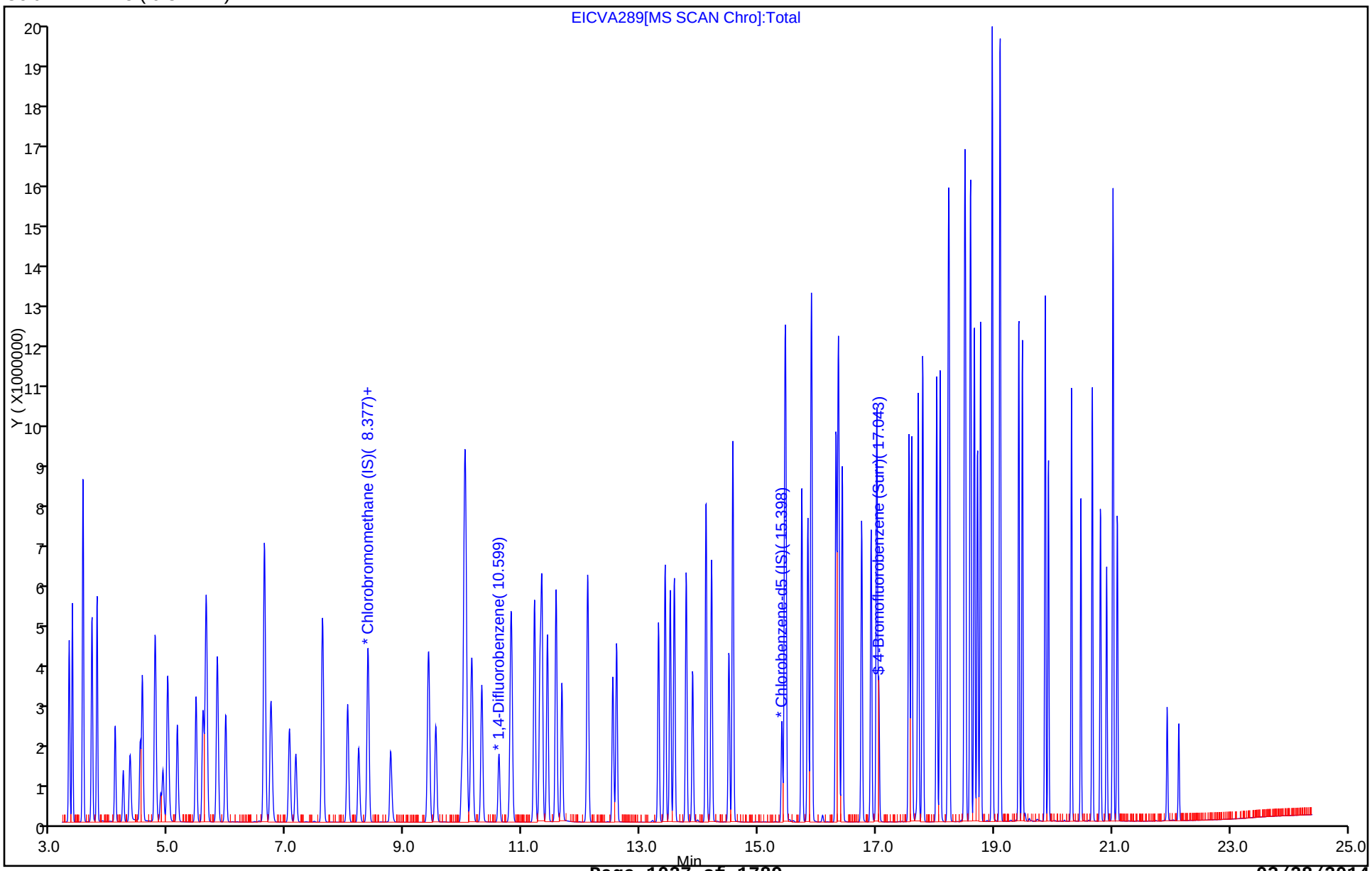
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

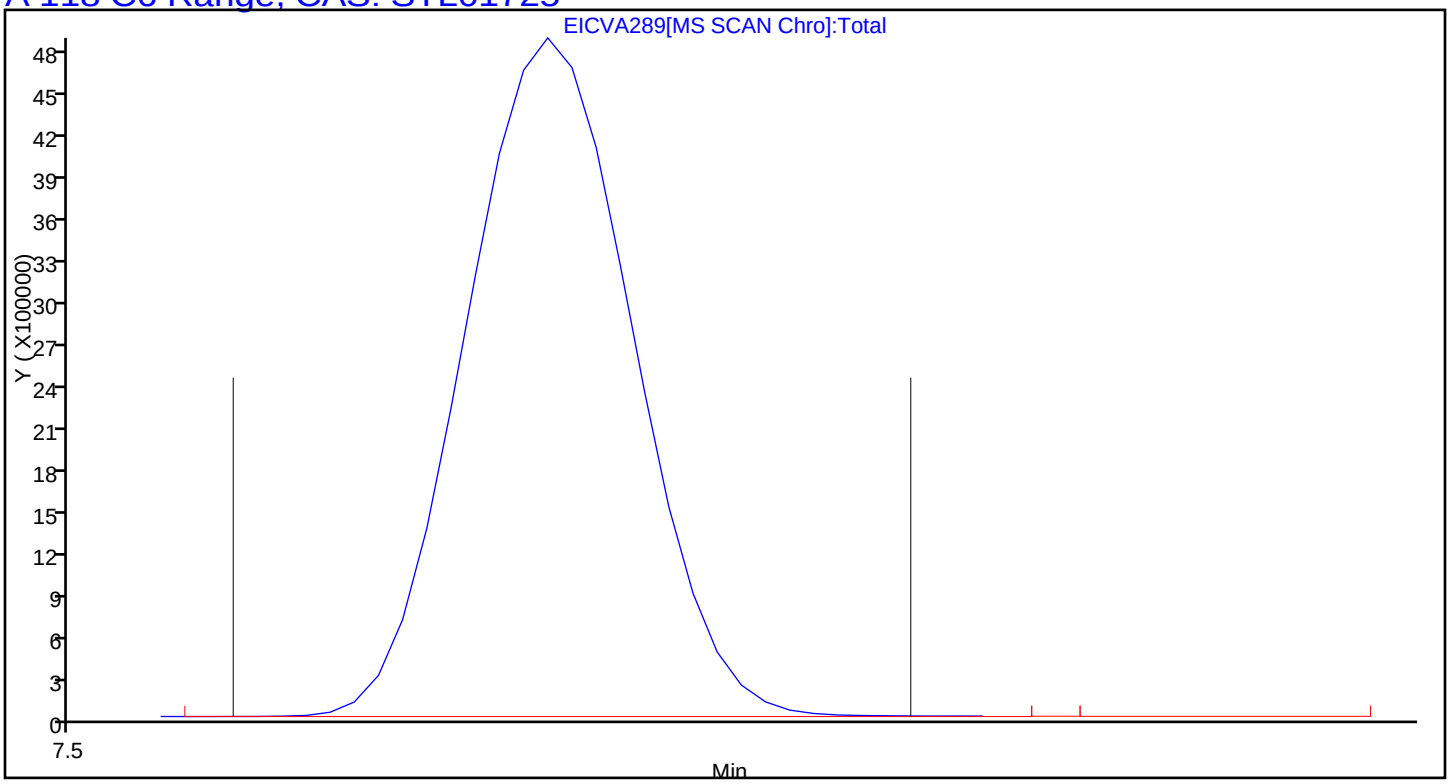


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

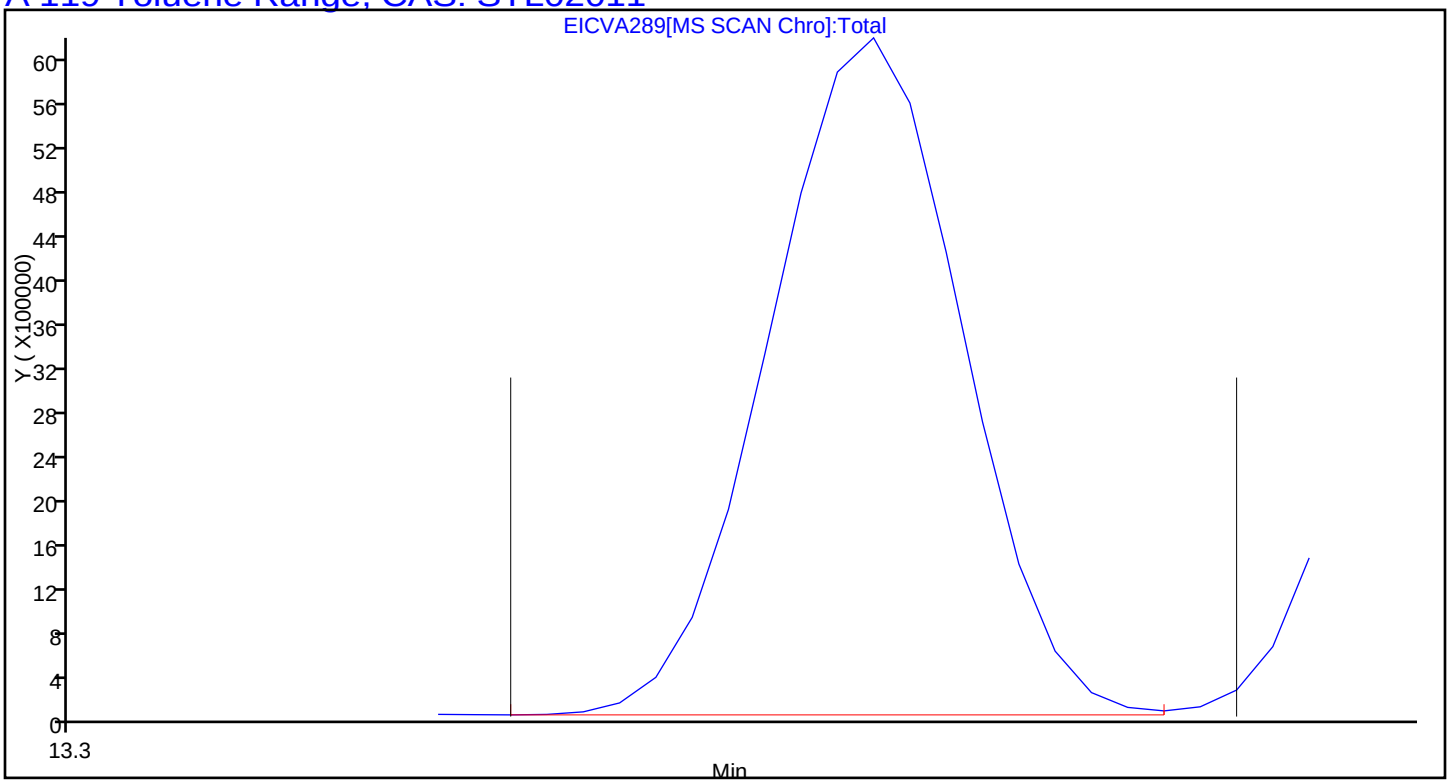


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

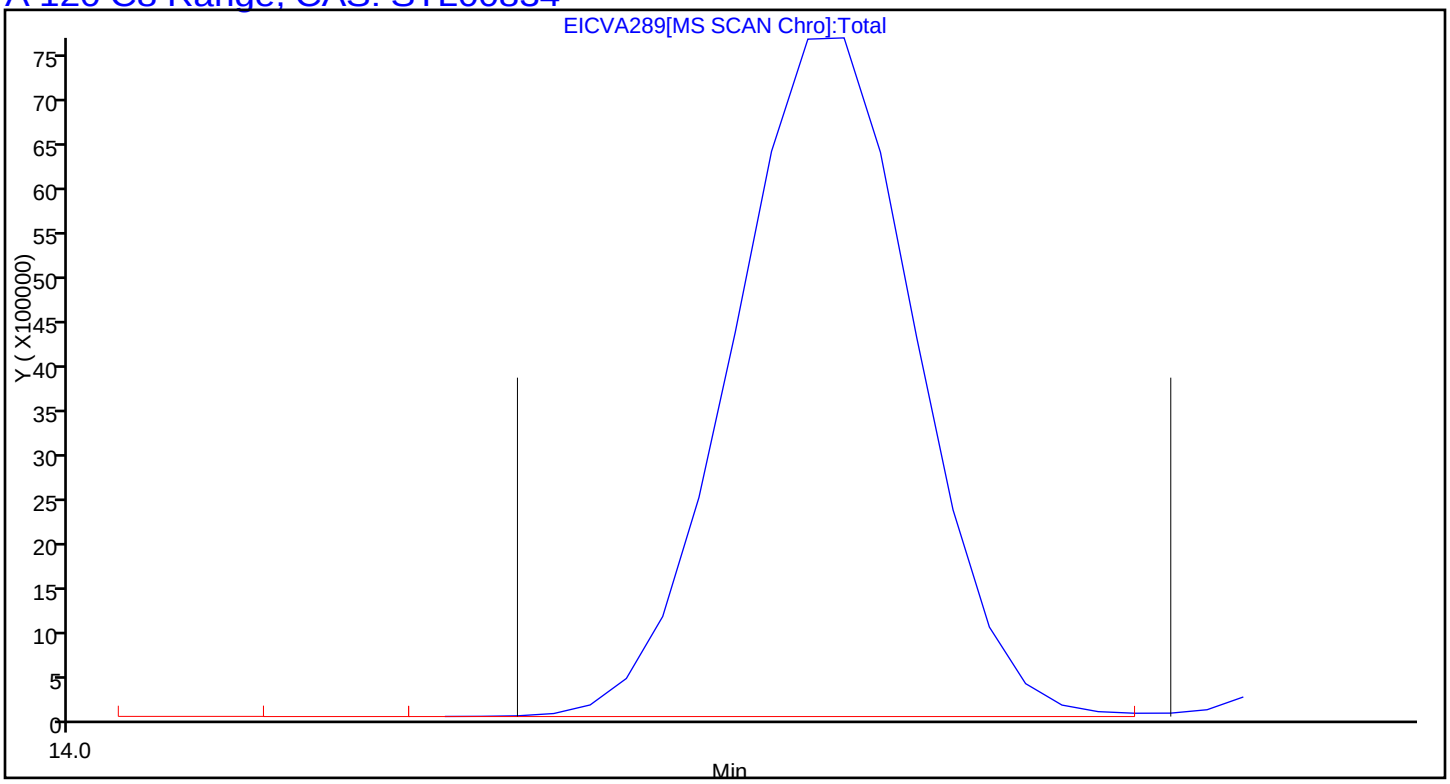


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	+++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave		0.4128				14.0		30.0			
Propene	+++++ 1.1609	+++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave		1.2265				14.0		30.0			
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave		3.9621				7.4		30.0			
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave		0.4501				13.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave		2.9902				6.8		30.0			
Acetaldehyde	+++++ 0.3869	+++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave		0.3947				16.0		40.0			
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave		1.4829				8.8		30.0			
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave		1.0304				9.0		30.0			
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave		2.1104				14.0		30.0			
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave		1.5082				8.2		30.0			
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave		0.6822				8.1		30.0			
Ethanol	+++++ 0.3202	+++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave		0.3211				11.0		40.0			
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave		1.2827				6.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989				13.0		30.0			
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807				6.7		30.0			
Acrolein	+++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266				18.0		30.0			
Acetonitrile	+++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607				12.0		30.0			
Acetone	+++++ 0.5780	+++++ 0.3424	+++++ 0.3699	0.7210 +++++	0.8316	Ave		0.5686				38.0	*	30.0			
Isopropyl alcohol	+++++ 1.4403	+++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014				7.8		30.0			
Pentane	+++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152				7.7		30.0			
Ethyl ether	+++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466				13.0		30.0			
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230				7.9		30.0			
tert-Butyl alcohol	+++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495				12.0		30.0			
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119				6.2		30.0			
Methylene Chloride	+++++ 1.0284	+++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701				14.0		30.0			
3-Chloropropene	+++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131				17.0		30.0			
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629				7.3		30.0			
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526				9.5		30.0			
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866				12.0		40.0			
Methyl tert-butyl ether	+++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415				9.8		30.0			
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108				11.0		30.0			
Vinyl acetate	+++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.3964	+++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786				7.5		30.0			
C6 Range	+++++ 11.457	+++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678				11.0		30.0			
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754				12.0		30.0			
cis-1,2-Dichloroethene	+++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547				11.0		30.0			
Ethyl acetate	+++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490				11.0		30.0			
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307				13.0		30.0			
Tetrahydrofuran	+++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265				13.0		30.0			
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293				10.0		30.0			
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103				8.5		30.0			
1-Butanol	+++++ 0.0758	+++++ 0.0850	+++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874				14.0		30.0			
Benzene	+++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863				9.9		30.0			
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354				6.0		30.0			
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669				6.9		30.0			
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619				8.6		40.0			
Thiophene	+++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238				9.1		40.0			
2,2,4-Trimethylpentane	+++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718				10.0		30.0			
Heptane	+++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427				9.7		30.0			
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320				9.9		30.0			
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329				10.0		30.0			
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave		0.4844				9.4		30.0			
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave		0.0831				9.1		30.0			
Methyl methacrylate	+++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave		0.2081				13.0		30.0			
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave		0.4620				9.4		40.0			
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave		0.4193				14.0		30.0			
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave		0.3291				11.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave		0.3315				9.5		30.0			
Toluene	+++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave		0.7420				9.6		30.0			
Toluene Range	+++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave		1.8085				14.0		30.0			
1,1,2-Trichloroethane	+++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave		0.2352				8.1		30.0			
2-Methylthiophene	+++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave		0.6668				8.5		40.0			
3-Methylthiophene	+++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave		0.6690				8.4		40.0			
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave		0.2430				15.0		30.0			
C8 Range	+++++ 2.5227	+++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave		2.8024				22.0		30.0			
Octane	+++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave		0.2723				7.0		30.0			
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave		0.5191				14.0		30.0			
1,2-Dibromoethane (EDB)	+++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave		0.4030				10.0		30.0			
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave		0.3457				13.0		30.0			
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave		0.6339				12.0		30.0			
2,3-Dimethylheptane	+++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave		0.8171				14.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	+++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave		0.8196				11.0		30.0			
2-Ethylthiophene	+++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave		0.6423				10.0		40.0			
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave		0.6614				15.0		30.0			
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave		0.5146				7.7		30.0			
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave		0.4101				28.0		30.0			
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave		0.4542				19.0		30.0			
o-Xylene	+++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave		0.6705				10.0		30.0			
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave		0.5478				13.0		30.0			
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave		0.1314				14.0		30.0			
Isopropylbenzene	+++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave		0.9553				11.0		30.0			
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave		0.2519				19.0		30.0			
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave		0.2629				14.0		30.0			
4-Ethyltoluene	+++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave		0.8909				15.0		30.0			
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave		0.4479				18.0		30.0			
Alpha Methyl Styrene	+++++ 0.3207	+++++ 0.3696	0.2496 0.4870	0.2079 +++++	0.2910	Ave		0.3209				31.0	*	30.0			
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave		0.5485				12.0		30.0			
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave		0.8748				17.0		30.0			
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave		0.7768				18.0		30.0			
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave		1.1401				16.0		30.0			
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave		0.5106				24.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	+++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave		0.5802				25.0		30.0			
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave		0.4752				26.0		30.0			
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave		0.9141				18.0		30.0			
1,2,3-Trimethylbenzene	+++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave		0.6330				15.0		40.0			
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave		0.7225				11.0		40.0			
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave		0.4994				25.0		30.0			
Indane	+++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave		0.7098				21.0		40.0			
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave		0.8482				19.0		30.0			
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 +++++	0.5474	Ave		0.6202				25.0		40.0			
Undecane	+++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave		0.5525				14.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave		0.8571				21.0		40.0			
1,2,4,5-Tetramethylbenzene	+++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 +++++	0.7884	Ave		0.8611				20.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 +++++	0.4957	Ave		0.5621				18.0		40.0			
1,2,3,4-Tetramethylbenzene	+++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 +++++	0.6223	Ave		0.6963				18.0		40.0			
Dodecane	+++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave		0.5721				11.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 +++++	0.1860	Ave		0.2222				28.0		30.0			
Naphthalene	+++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave		0.6294				26.0		30.0			
Benzo(b)thiophene	+++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave		0.4265				30.0		40.0			
Hexachlorobutadiene	+++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave		0.4540				24.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave		0.2871				22.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0679	0.0753 0.0753	0.0599 0.1029	0.0578 0.0298	0.0666	Ave		0.0669				31.0		40.0			
1-Methylnaphthalene	+++++ 0.0730	0.0816 0.0750	0.0695 0.0927	0.0679 0.0189	0.0735	Ave		0.0690				31.0		40.0			
4-Bromofluorobenzene (Surr)	0.6600 0.7176	0.6934 0.7283	0.7134 0.7225	0.6897 0.7235	0.7189	Ave		0.7075				3.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	+++++ 65895	3504 127336	7250 267278	13846 505684	32729	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 203864	+++++ 380299	22123 770175	44922 1458925	107699	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 339724	+++++ 590590	35881 1285979	64164 2205919	194092	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 281128	+++++ 536616	27045 988374	58098 1841235	144711	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	+++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 53042	2906 99357	5224 250642	8002 437980	27013	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 59141	2885 106520	6174 251140	11328 477609	29505	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 101503	+++++ 119169	+++++ 235590	24784 +++++	72907	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 +++++	1.00
Isopropyl alcohol	CBM	Ave	+++++ 252925	+++++ 503623	24457 1005537	52512 1891993	127722	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	+++++ 37045	1358 73196	3459 151771	7244 289822	18413	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	+++++ 179455	8583 329259	17680 699710	29228 1293462	94508	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4524 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 180581	+++++ 352418	19809 670417	36329 1306630	89695	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 183622	9954 355060	20200 664240	35748 1253863	90749	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	+++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	+++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 69610	+++++ 125222	5876 243895	11813 487204	35887	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	+++++ 2011864	+++++ 3810714	202396 7329744	410756 14110311	1022928	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 200551	8788 388357	20156 706076	35319 1451411	100896	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	+++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	+++++ 156408	7748 291715	15807 599765	27476 1179659	78446	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 63073	+++++ 133536	+++++ 287181	14706 562689	30453	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	+++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	+++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 191563	8567 367648	19608 706282	33732 1414497	96771	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	+++++ 169117	7159 333332	14809 682355	24813 1312475	82170	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	+++++ 234824	9630 446194	20295 879585	35040 1963516	117538	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	+++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	+++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 166783	7143 313466	14877 586633	26153 1314579	84373	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	+++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	+++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	+++++ 1829147	+++++ 3391784	242838 6451566	360891 12490633	997149	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185219	8228 363887	17415 718344	31719 1469379	94899	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	+++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	+++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	+++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	+++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	+++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 232501	+++++ 498439	14480 1265706	27470 +++++	104233	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 +++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	+++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	+++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	+++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 +++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Undecane	CBZ	Ave	+++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42402 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	+++++ 585097	24071 1242657	45438 3137565	89023 +++++	282429	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 +++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	+++++ 458134	21613 969881	37074 2444837	74166 +++++	222908	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Dodecane	CBZ	Ave	+++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 143447	6805 317385	10877 910586	21000 +++++	66621	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Naphthalene	CBZ	Ave	+++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 178007	8385 366981	14621 979161	29244 2025463	87992	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 307709	13381 634411	21725 1671920	47754 969606	149184	+++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 331073	14503 631891	25220 1506542	56061 616839	164584	+++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL1,,1,1,,ICAL 0.04
Misc. Info.: J031114I,TO15,,140-0000516-002
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

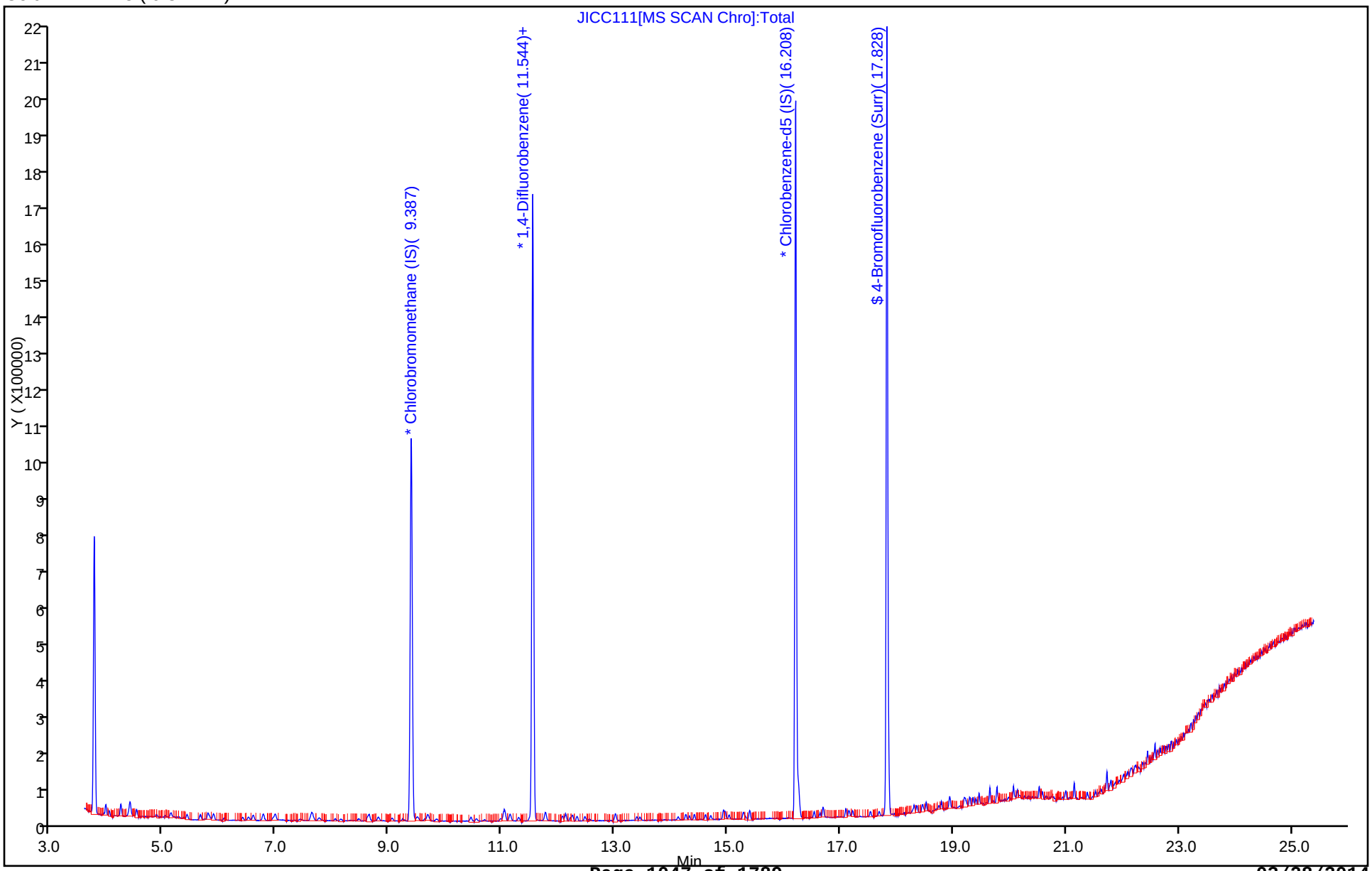
Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

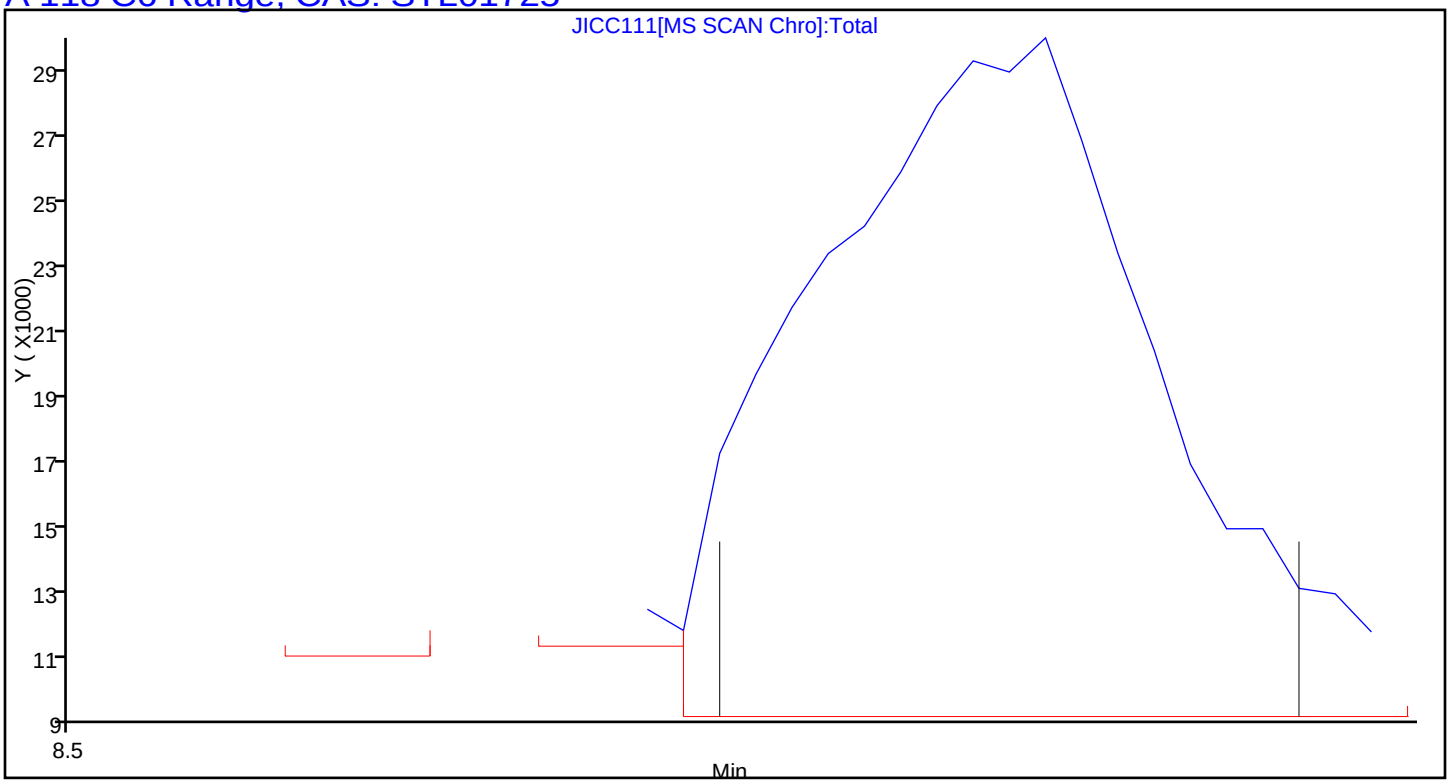


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

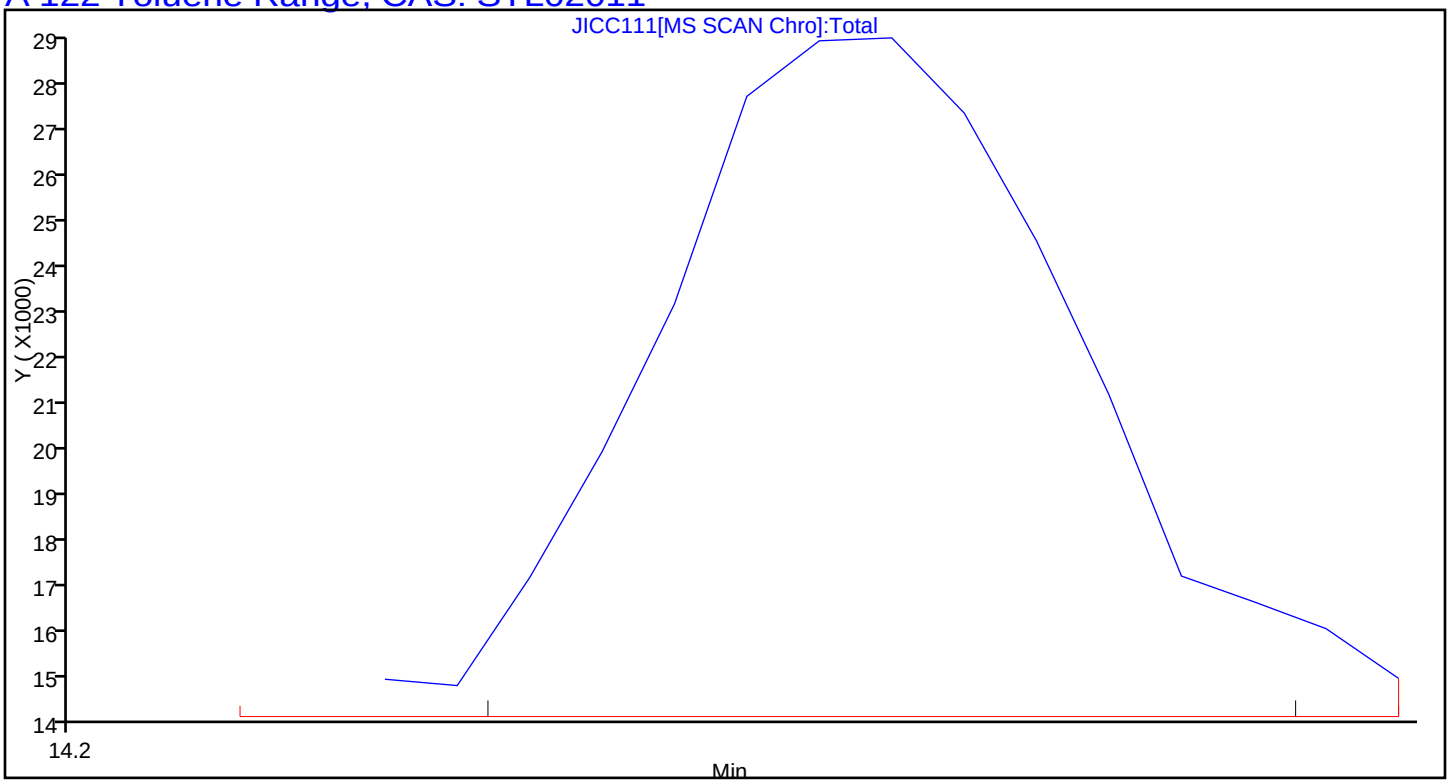


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

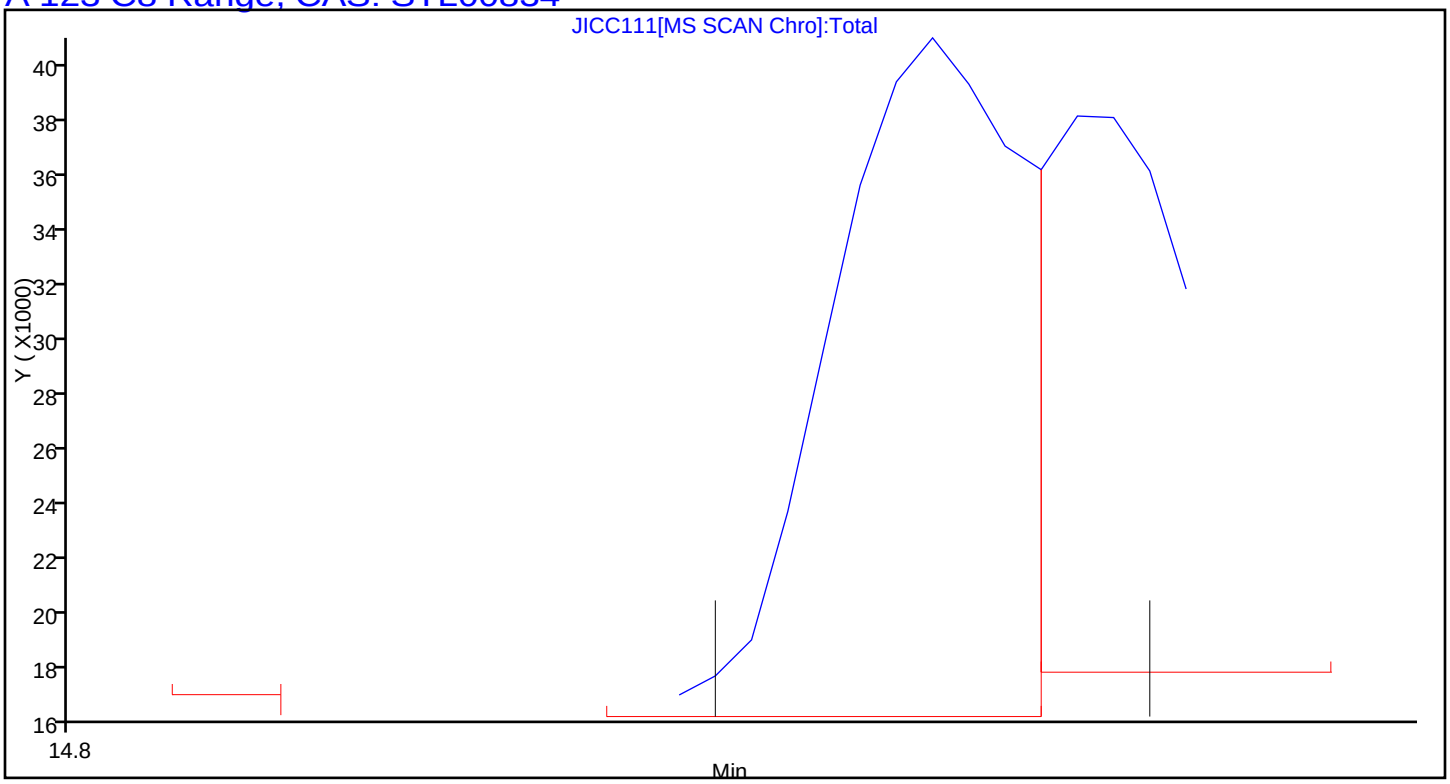


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL2,,1,2,,ICAL 0.08
Misc. Info.: J031114I,TO15,,140-0000516-003
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

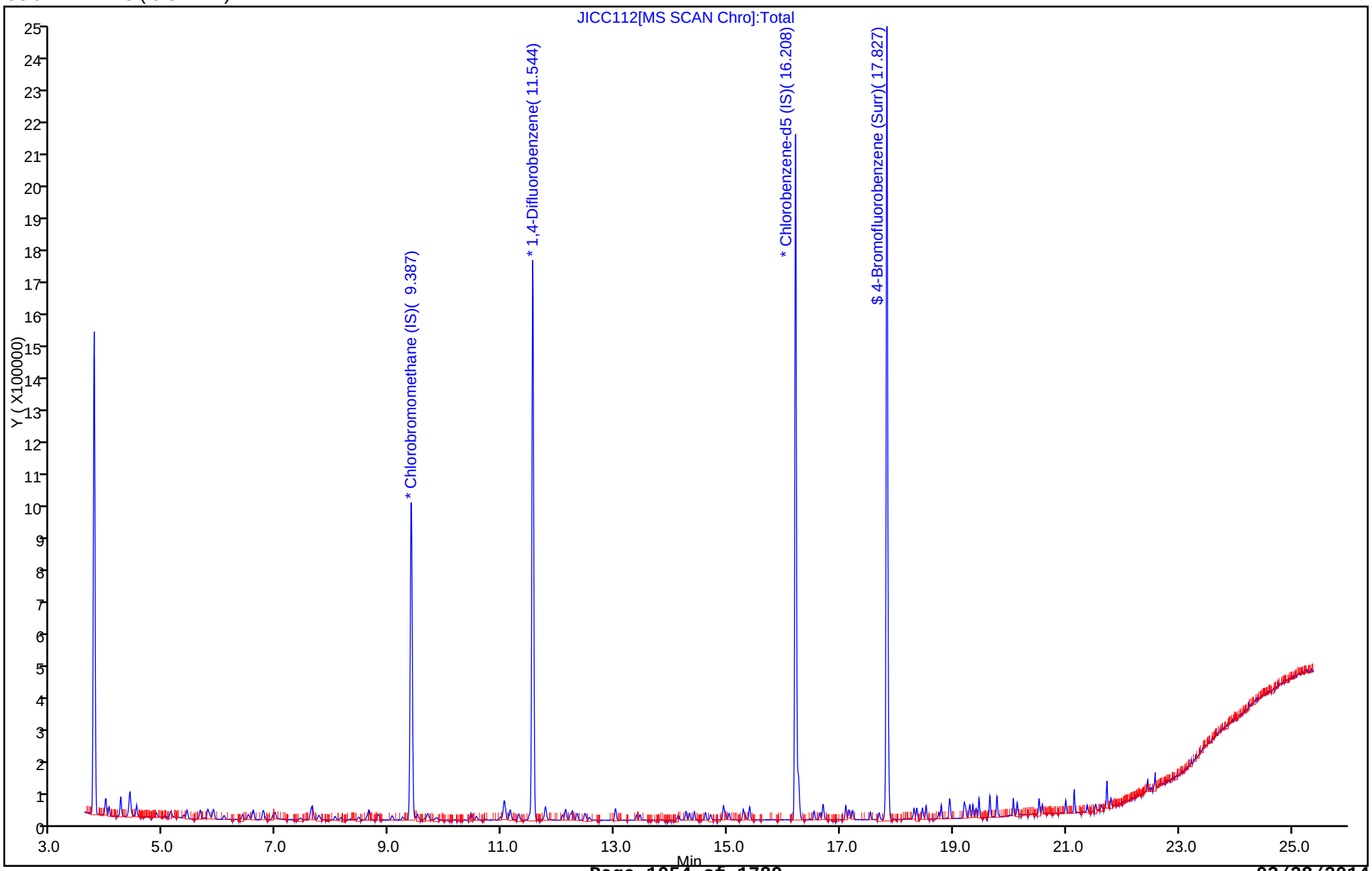
Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

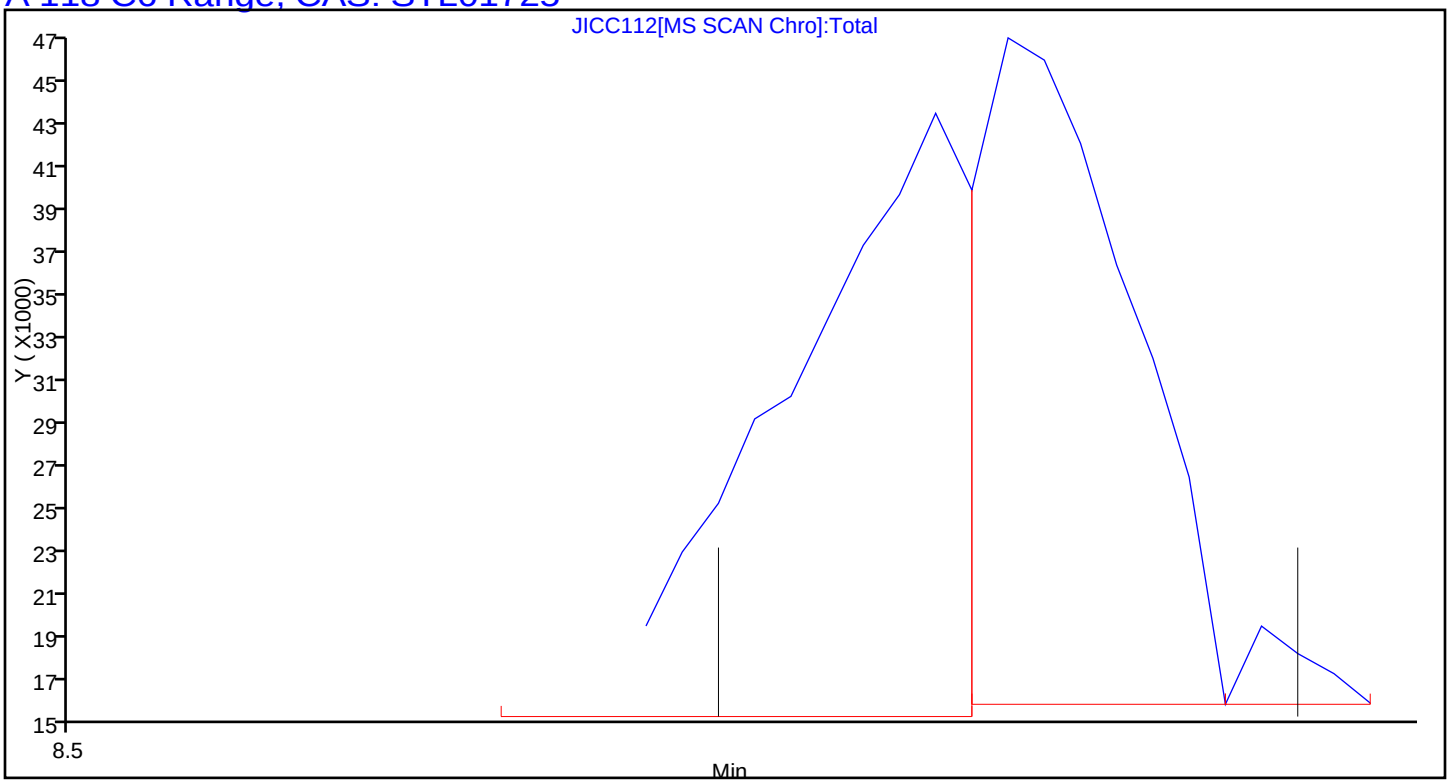


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

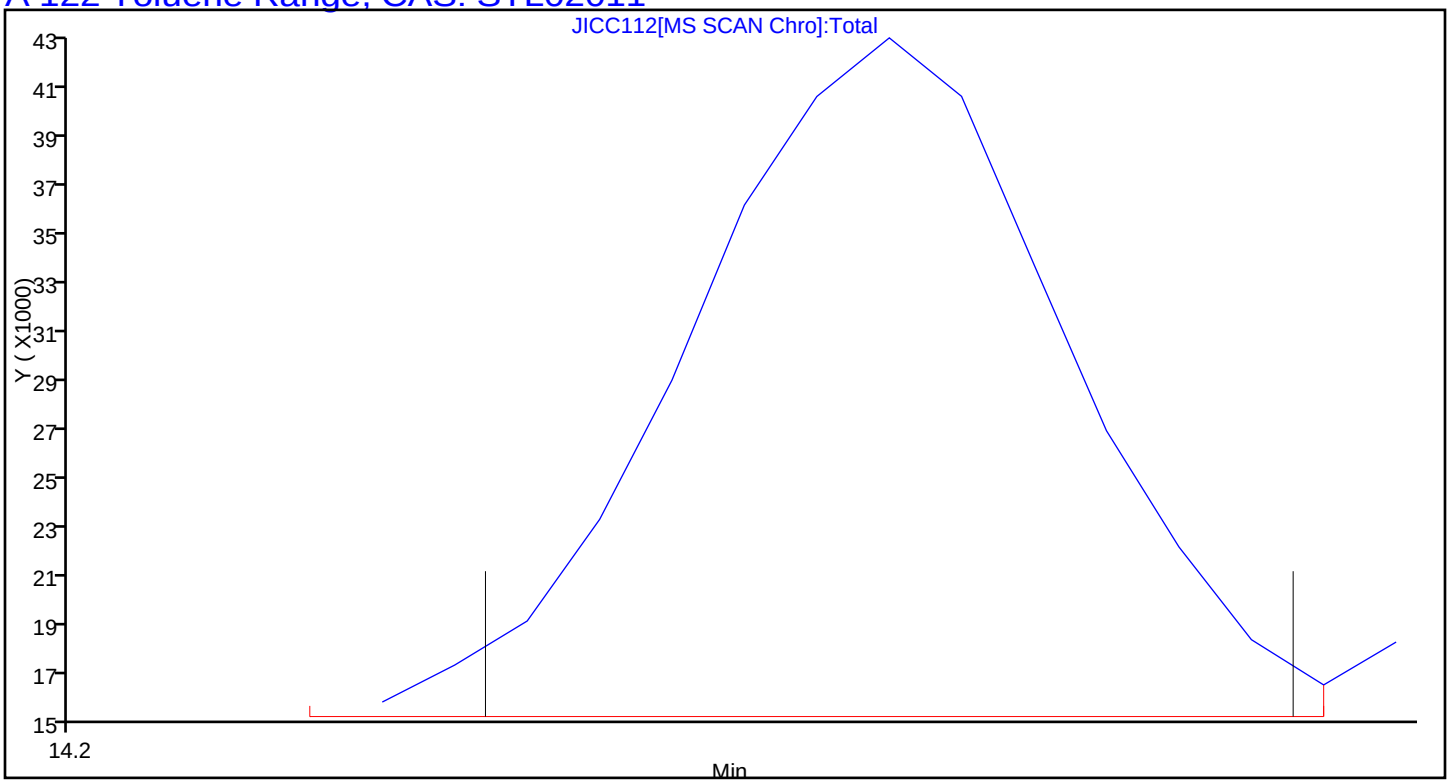


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

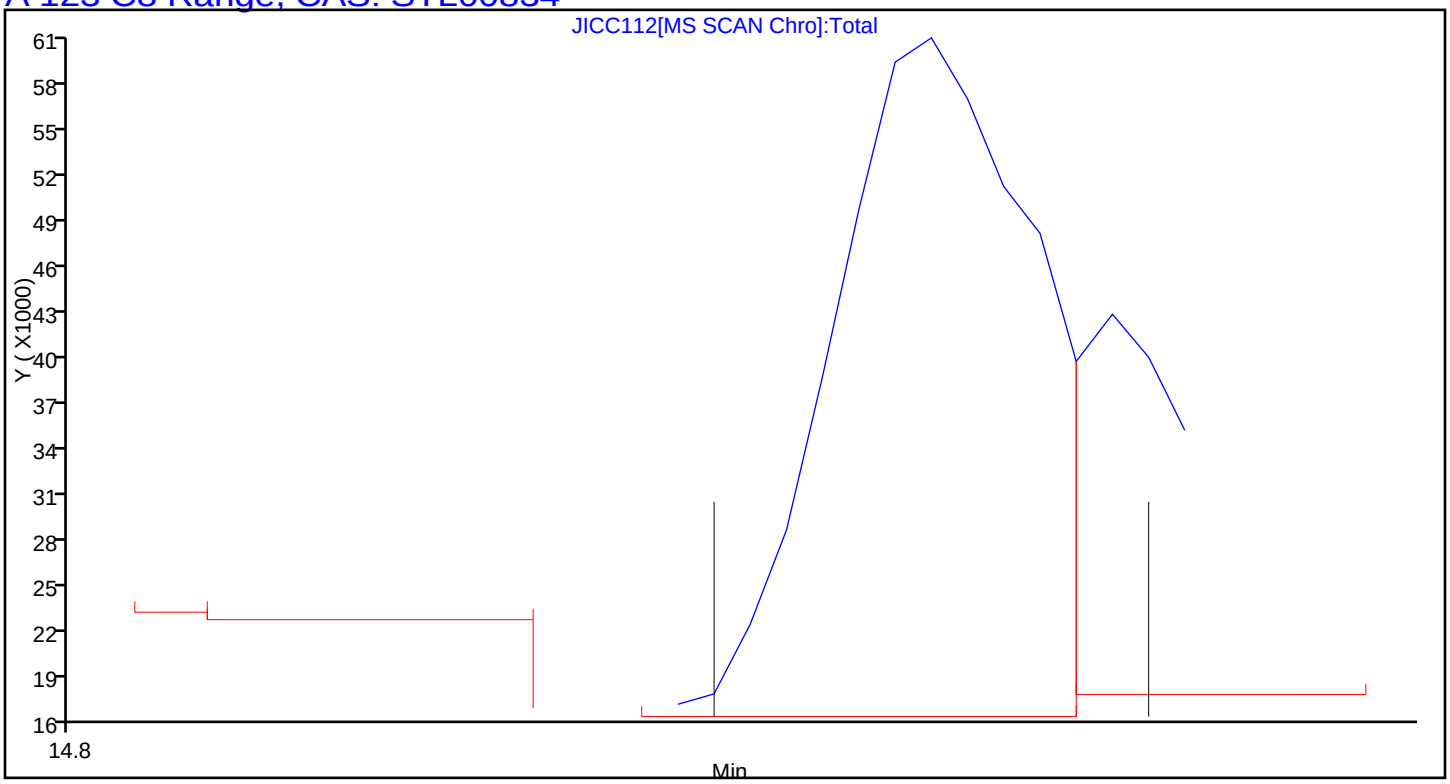


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL3,,1,3,,ICAL 0.16
Misc. Info.: J031114I,TO15,,140-0000516-004
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 -	8.694	0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 -	14.961	0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

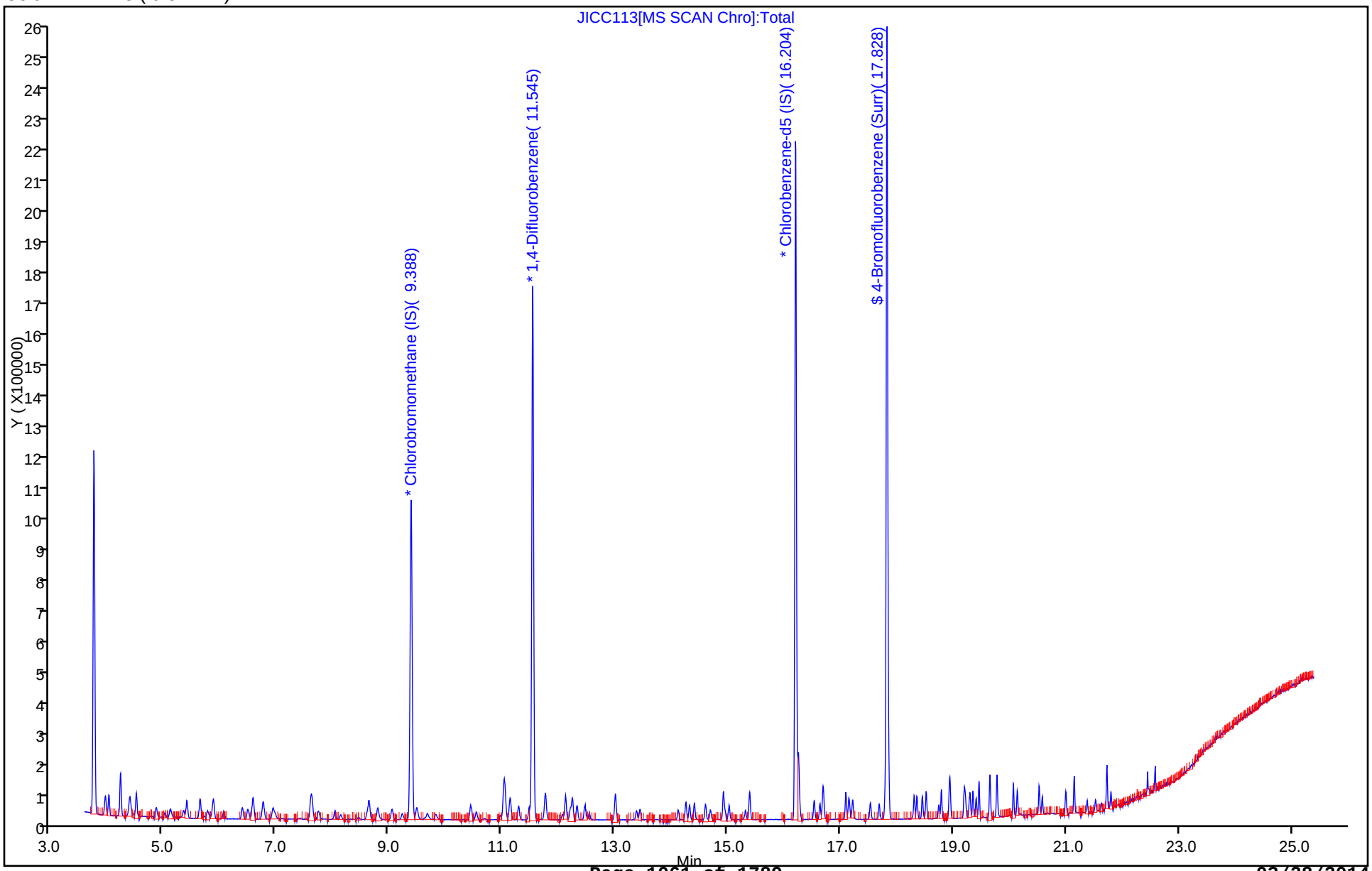
Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

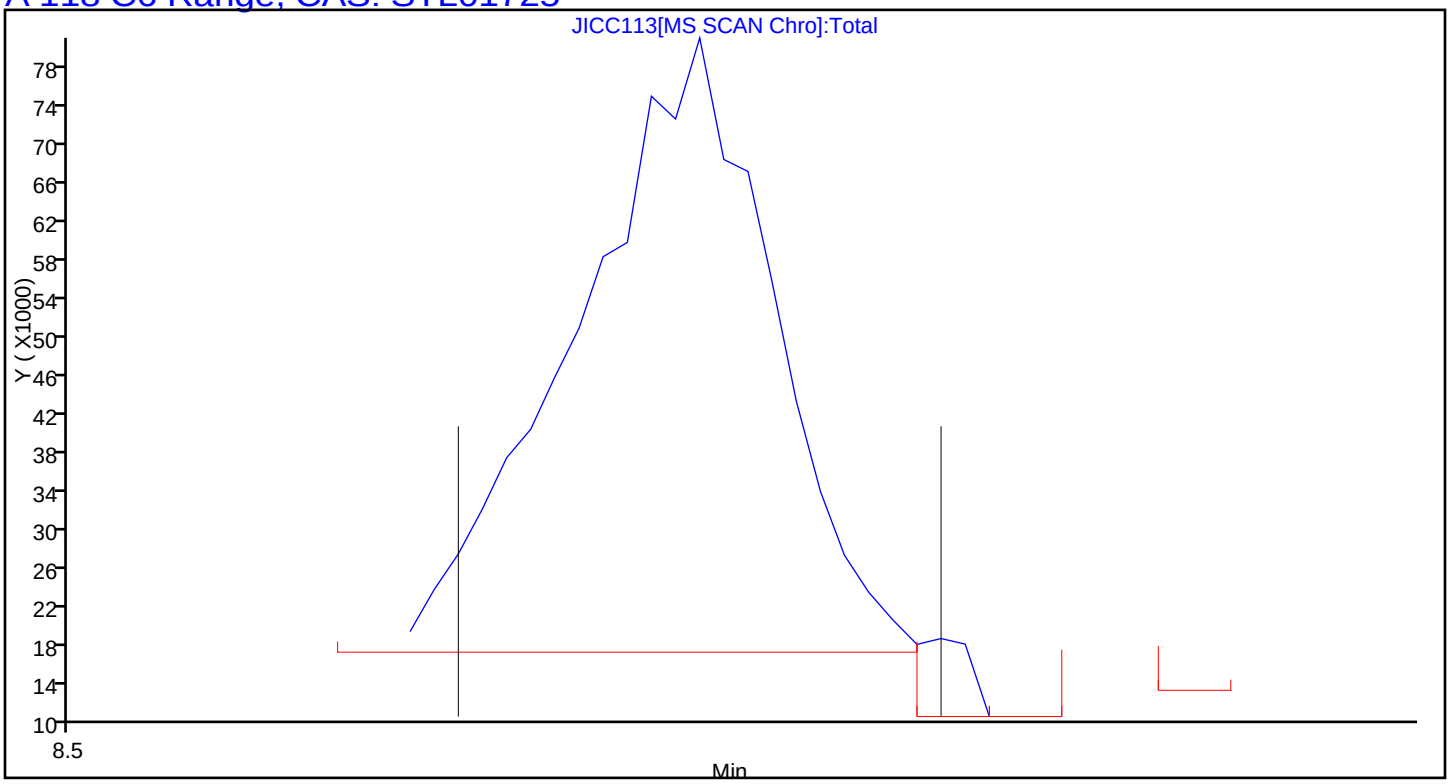


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

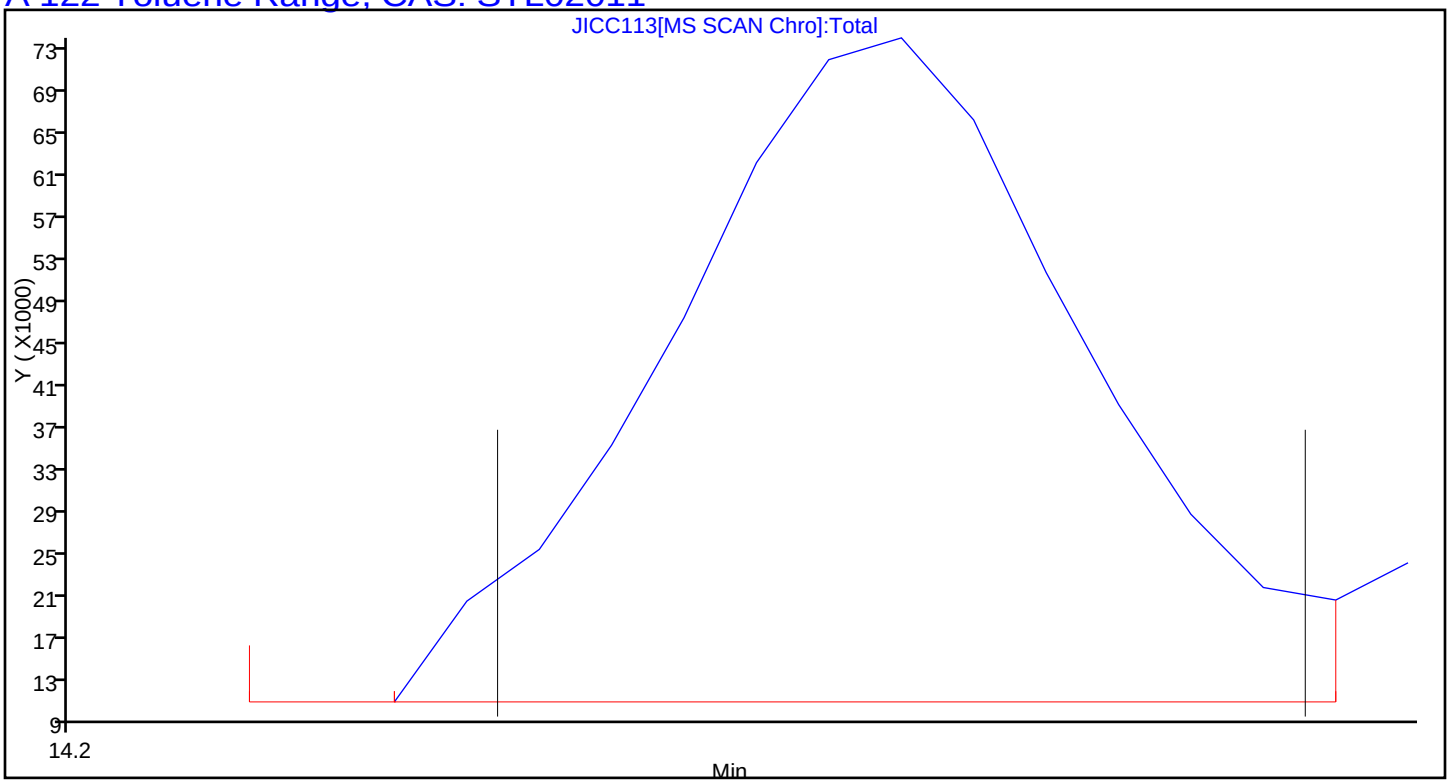


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

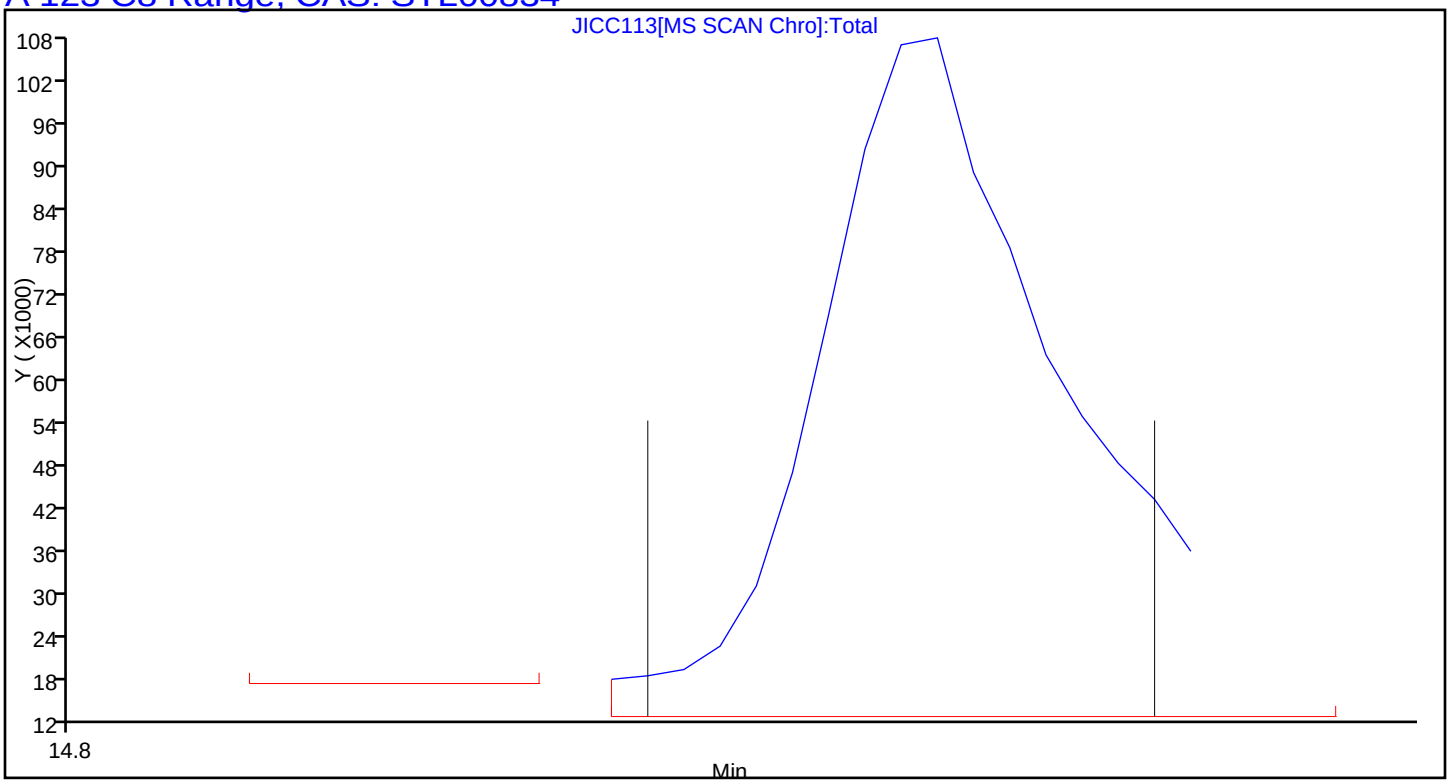


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL4,,1,4,,ICAL 0.4
Misc. Info.: J031114I,TO15,,140-0000516-005
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 -	8.696	0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 -	14.288	0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 -	14.968	0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

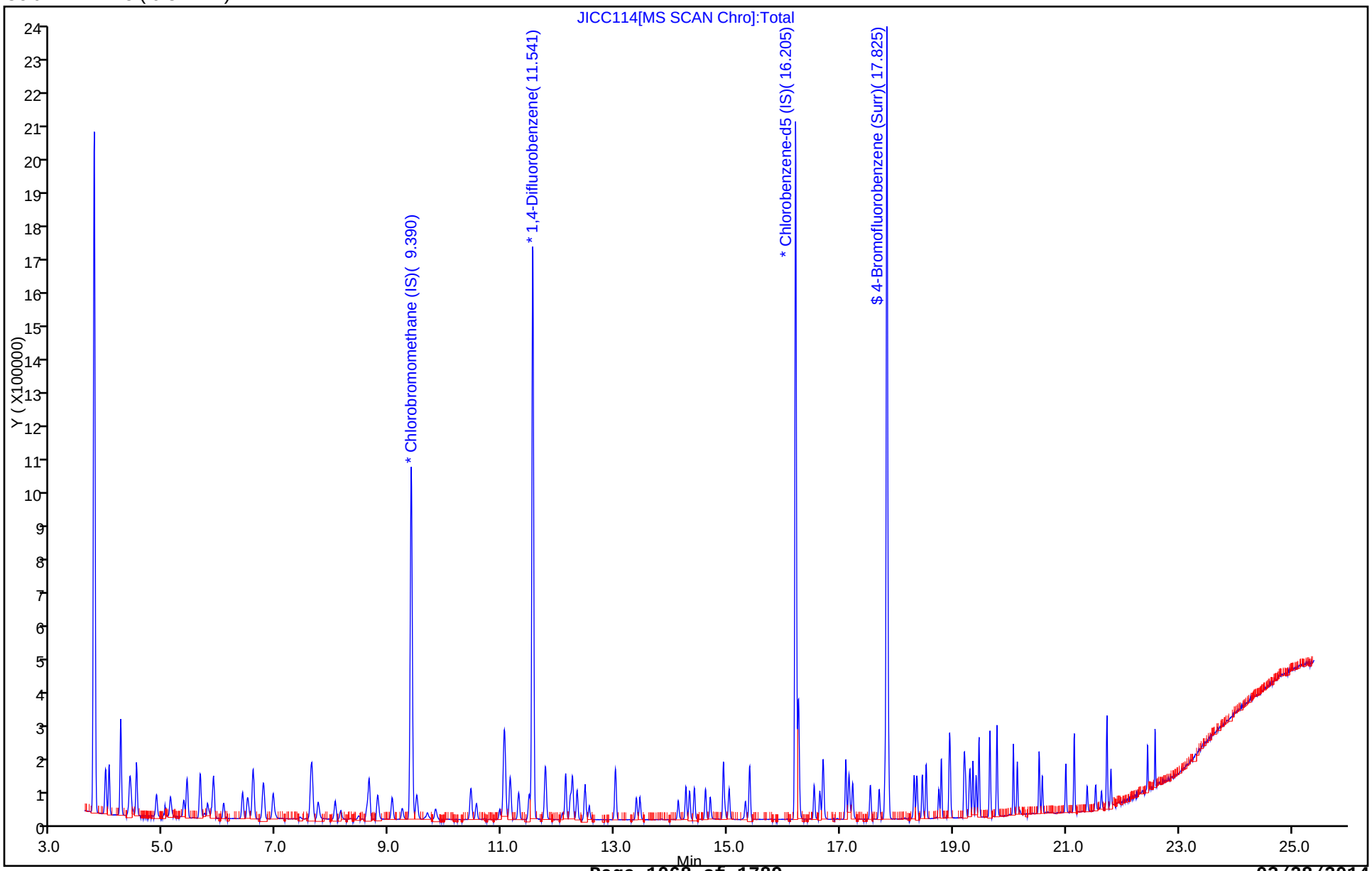
Report Date: 14-Mar-2014 14:45:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

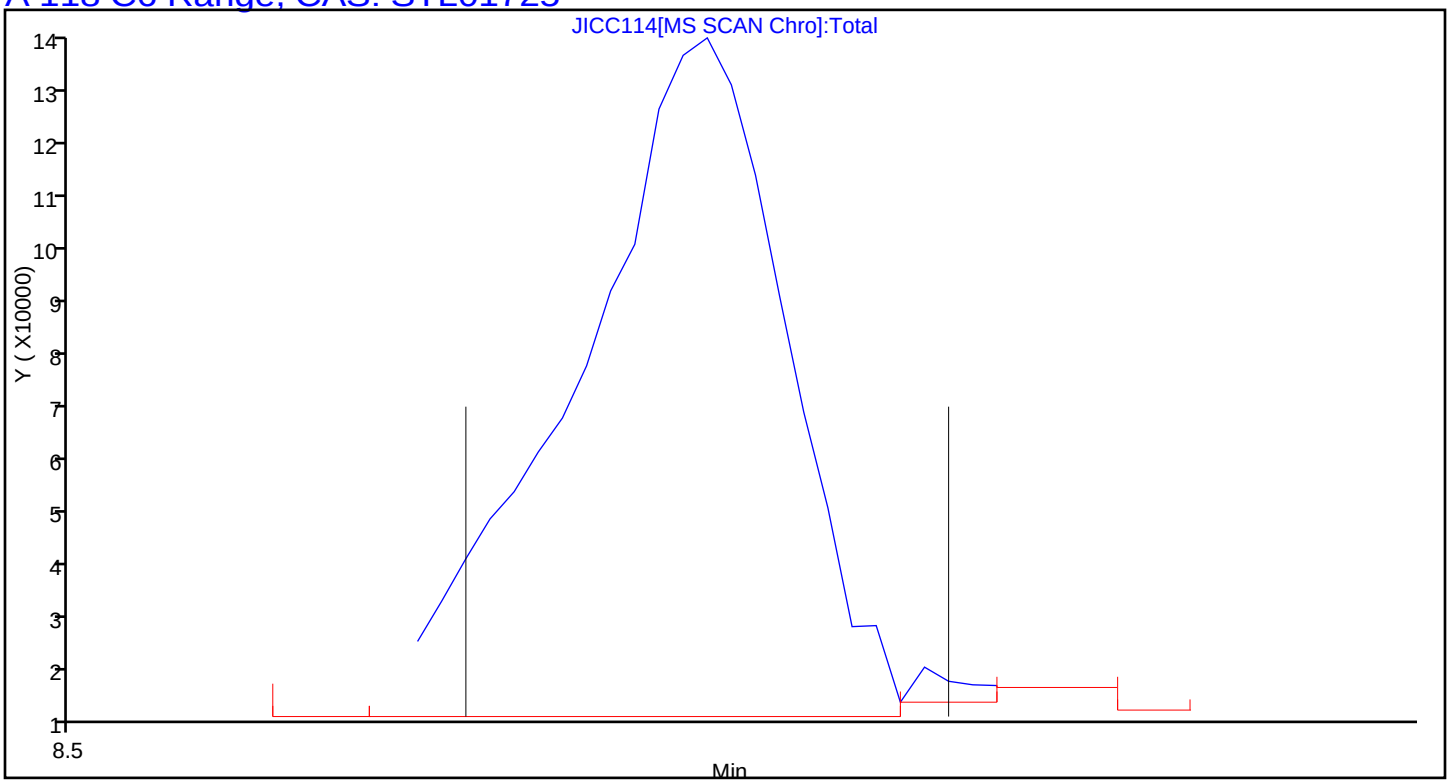


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

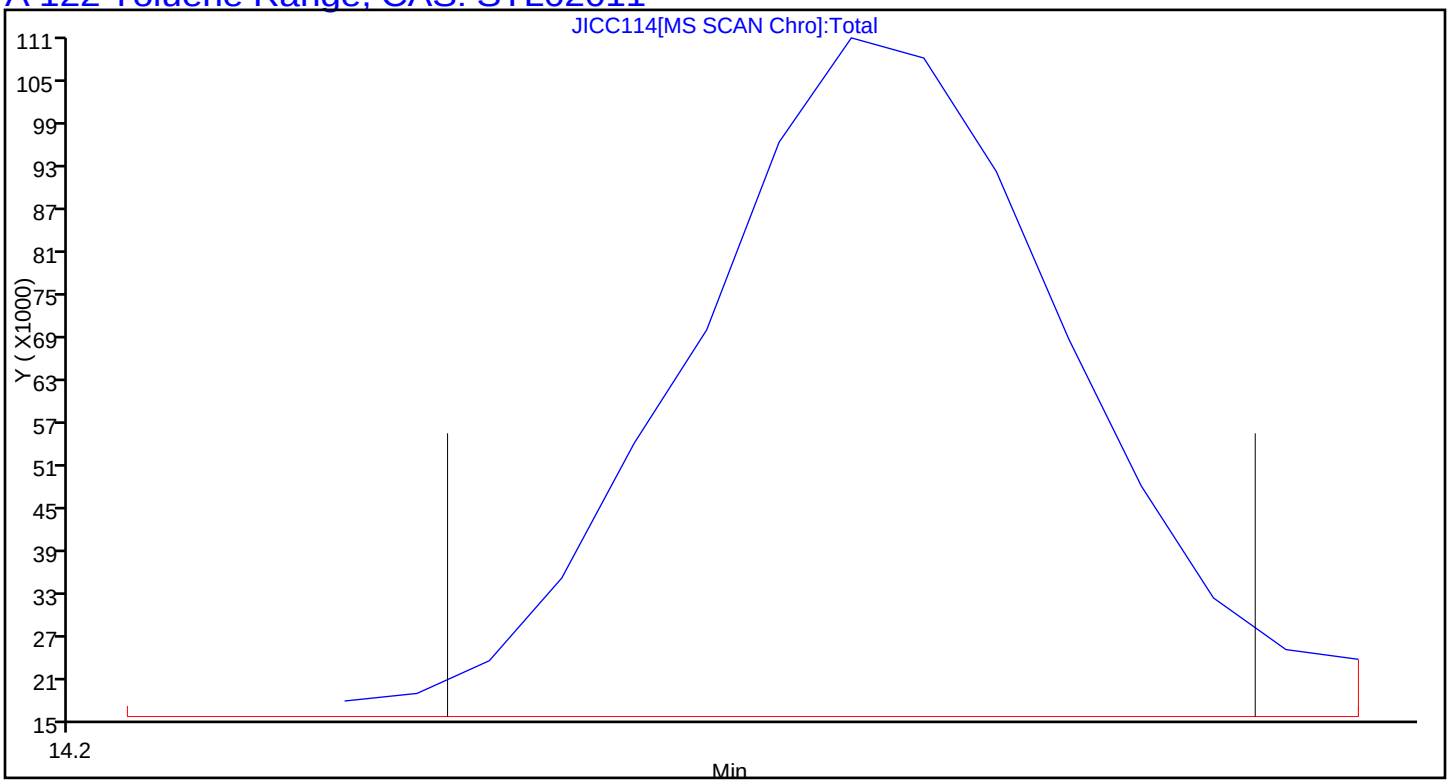


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

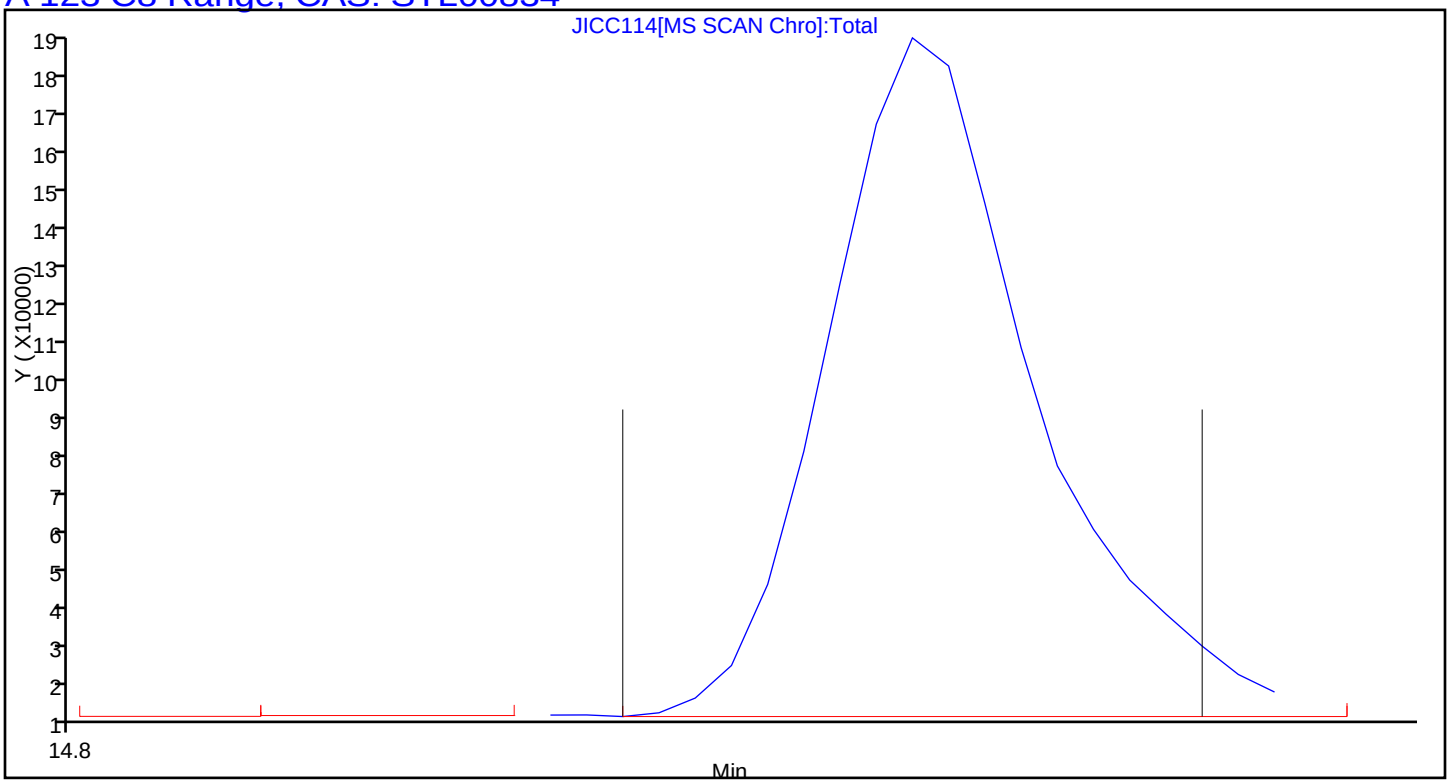


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL5,,1,5,,ICAL 1
Misc. Info.: J031114I,TO15,,140-0000516-006
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

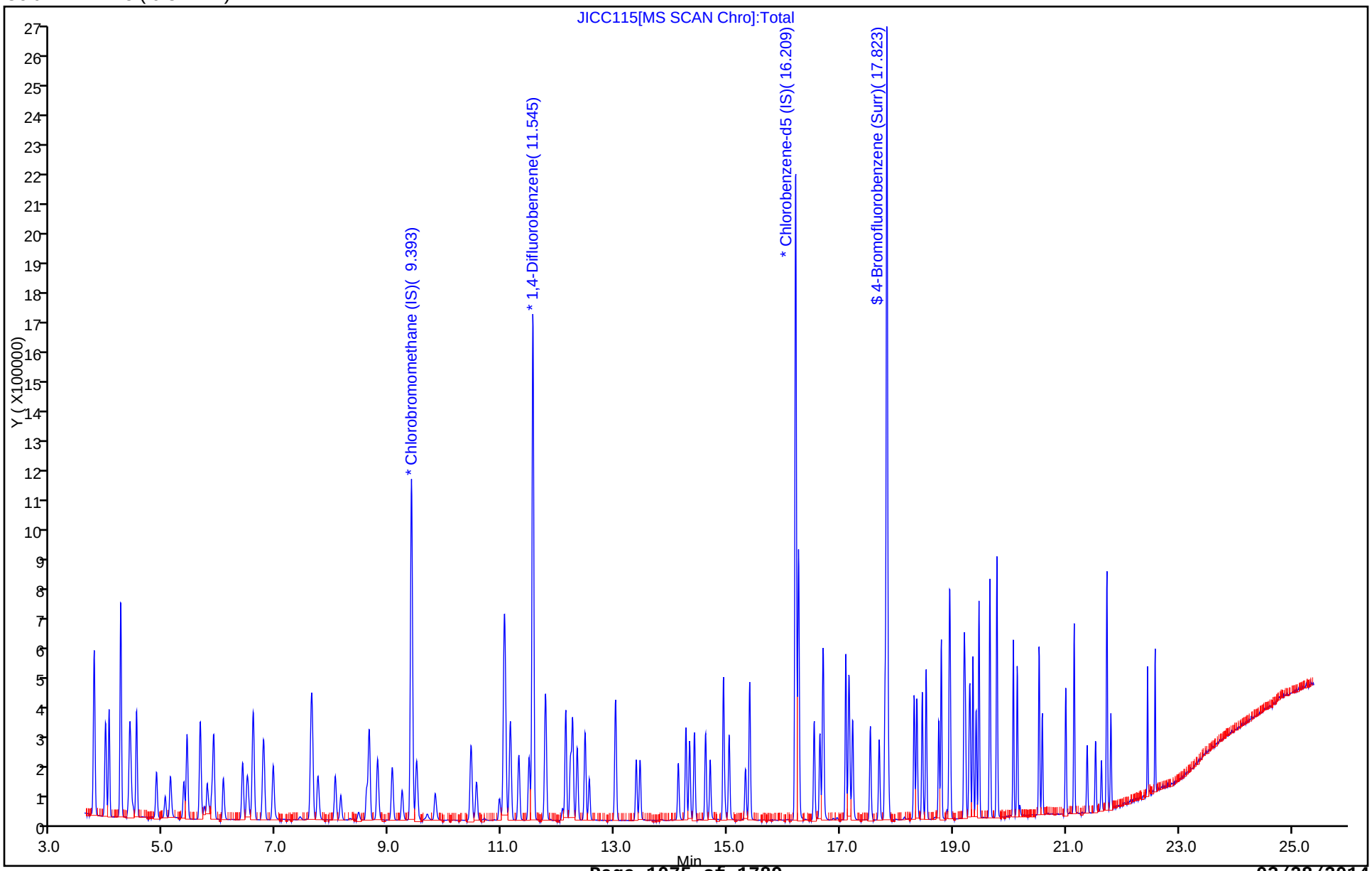
Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

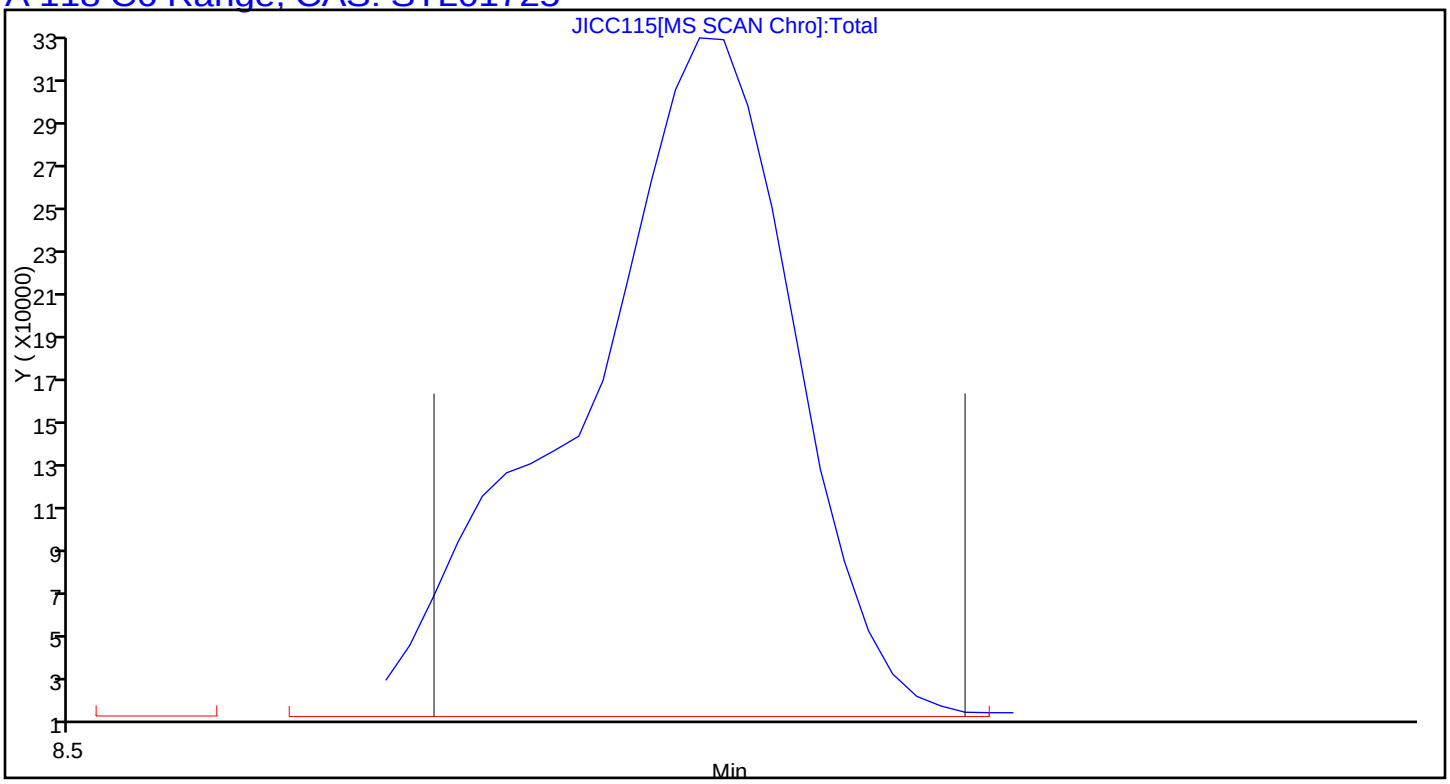


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

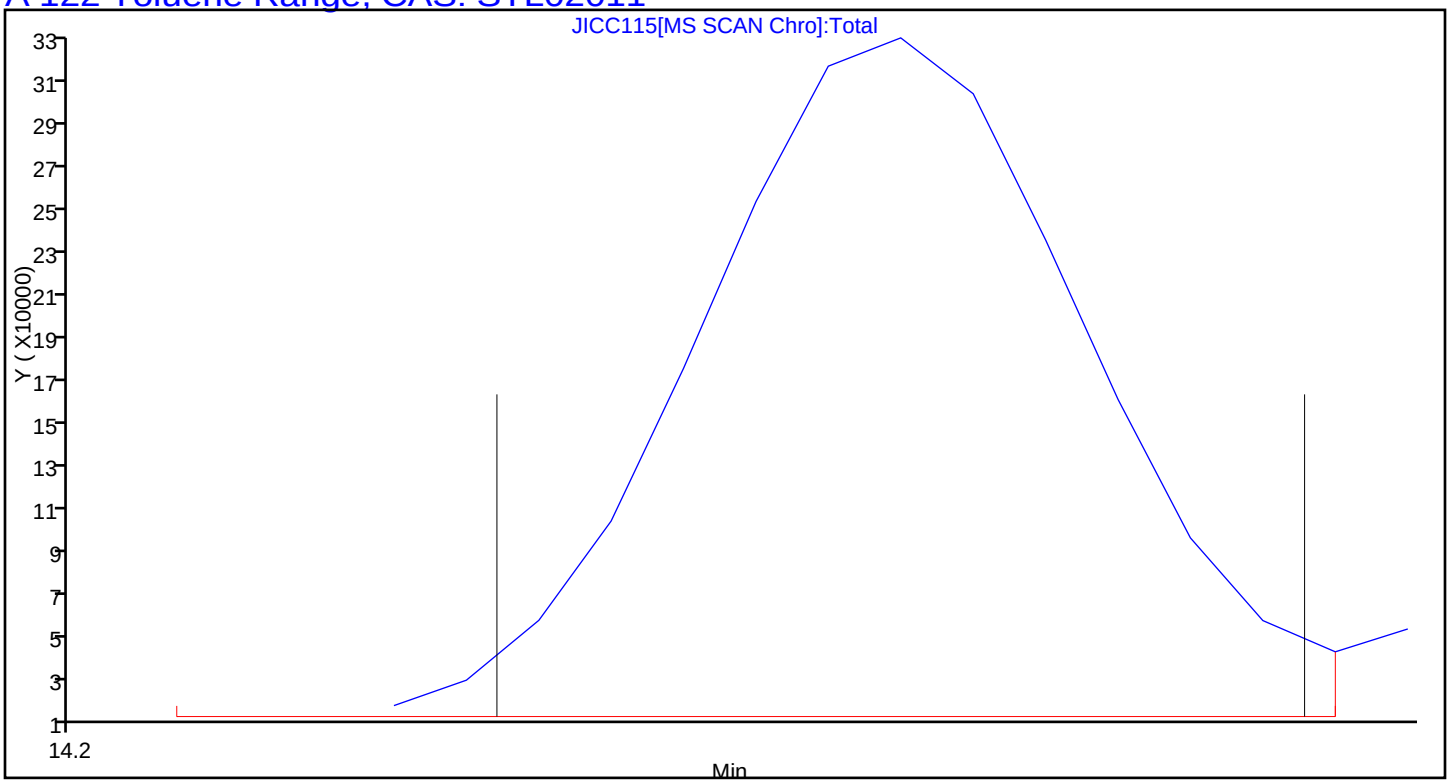


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

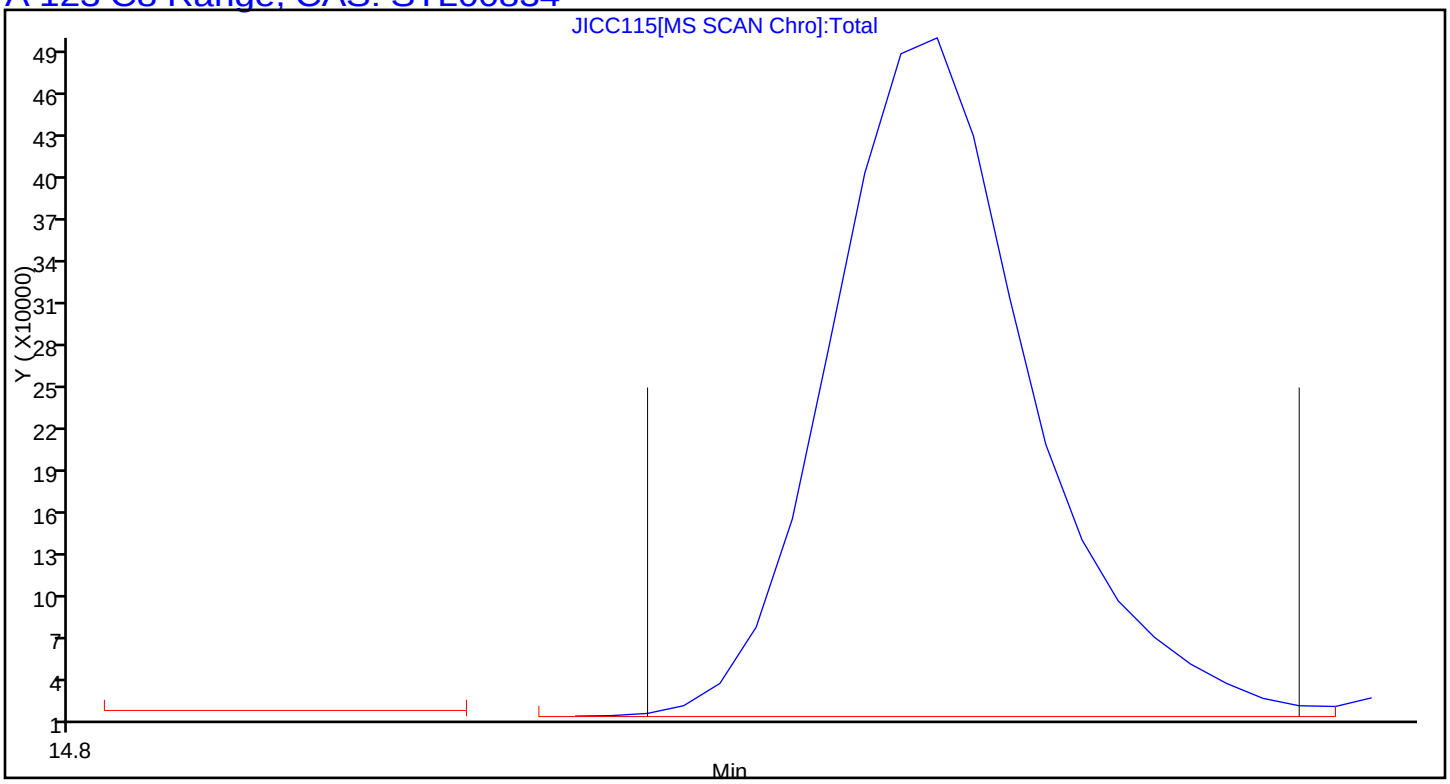


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL6,,1,6,,ICAL 2
Misc. Info.: J031114I,TO15,,140-0000516-007
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 -	8.710	0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 -	14.988	0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

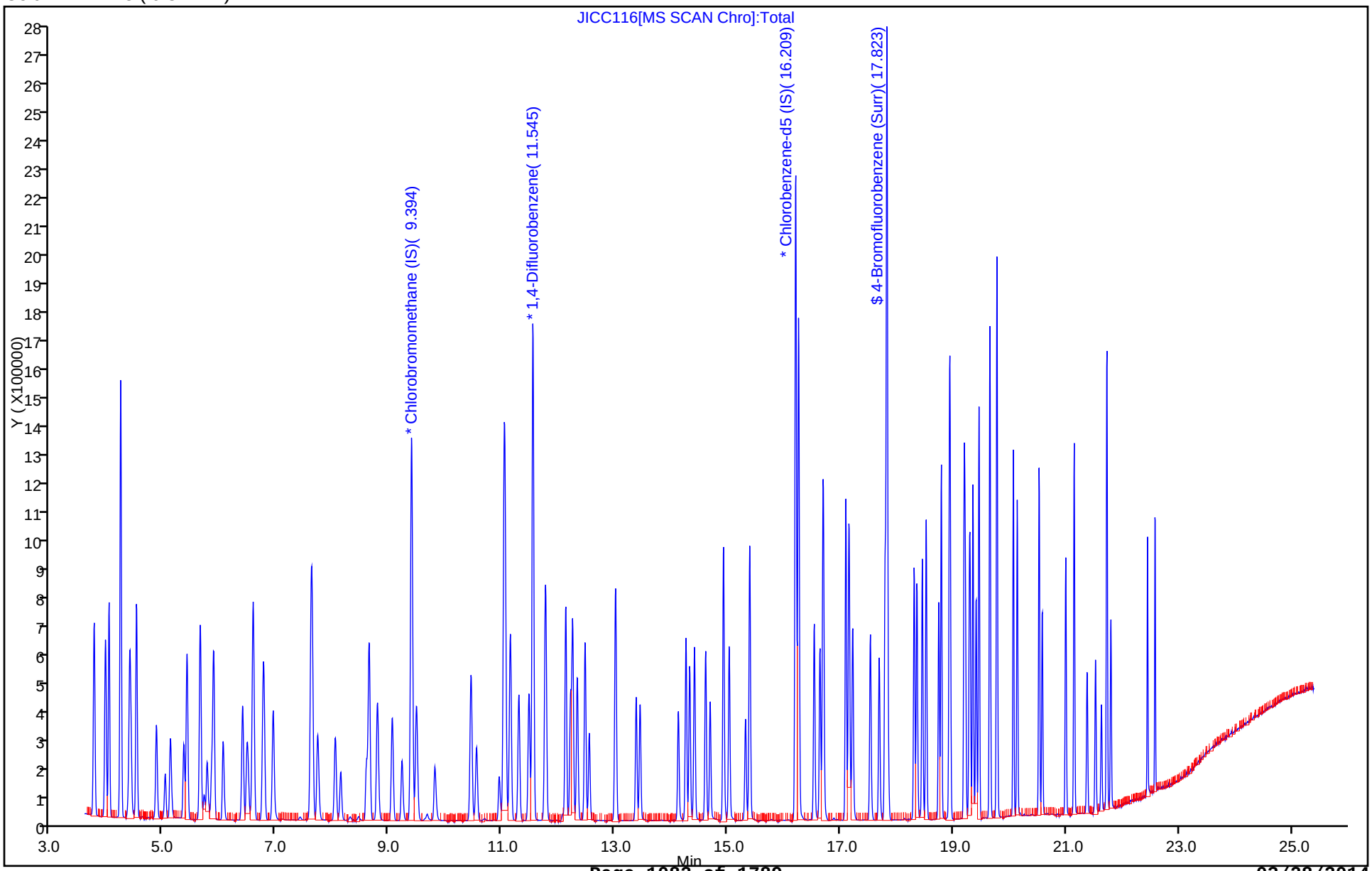
Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

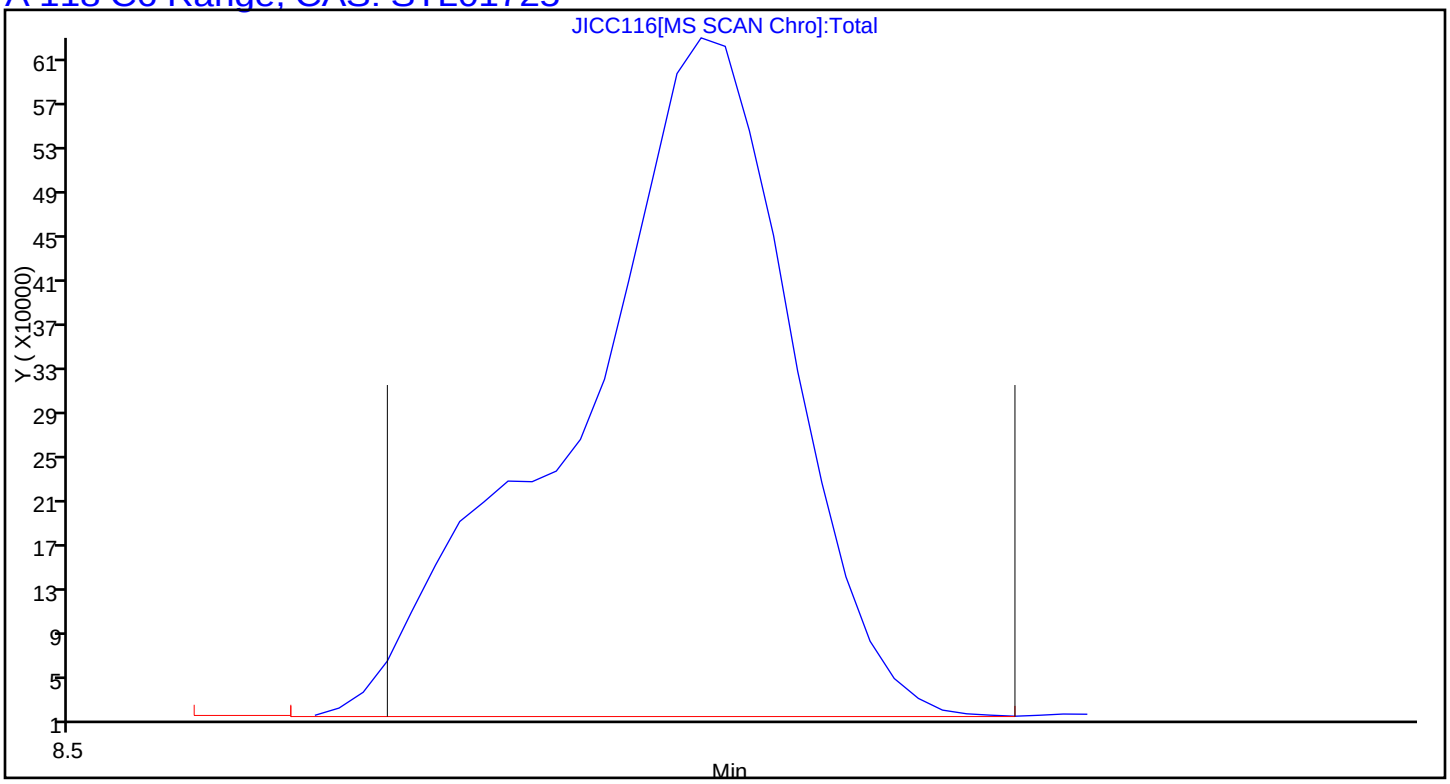


Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D				
Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

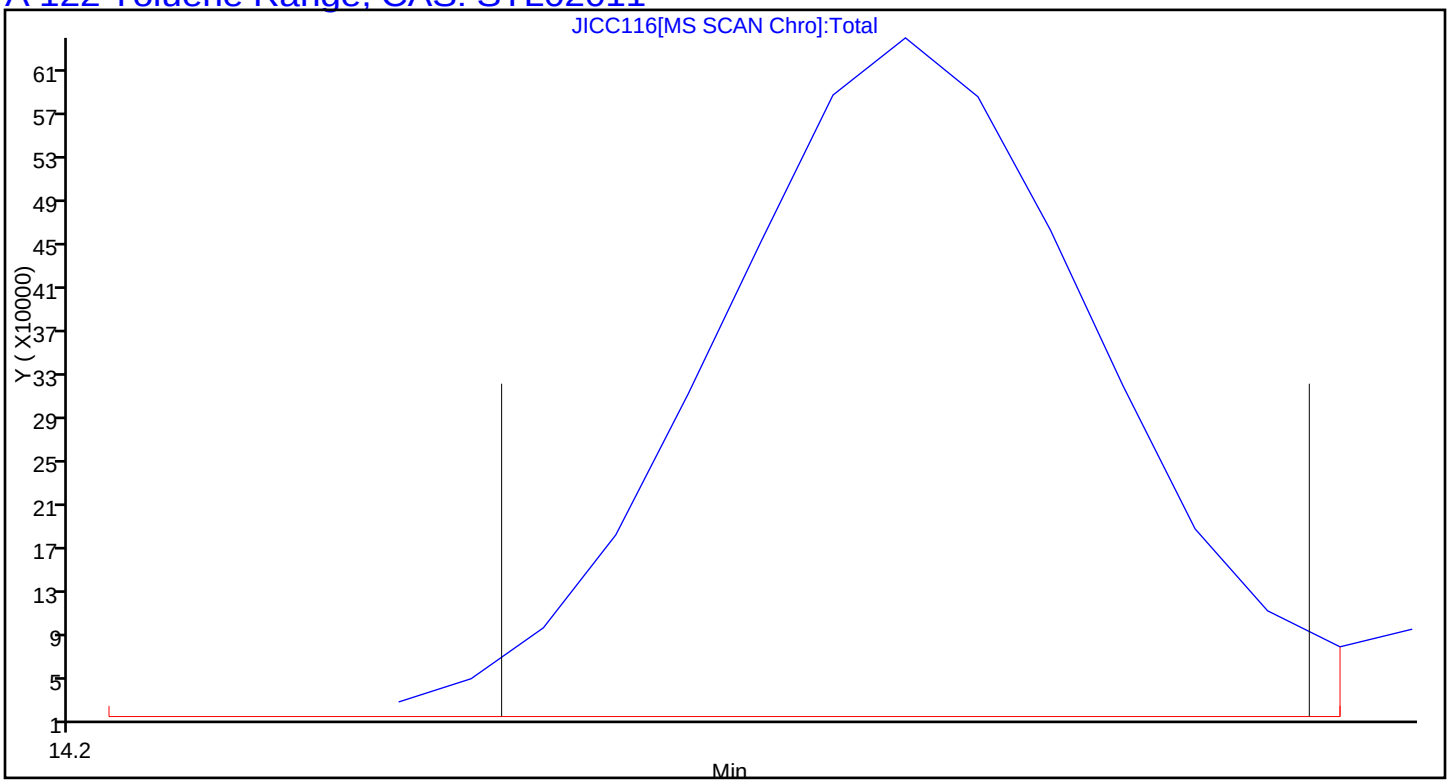


Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D				
Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

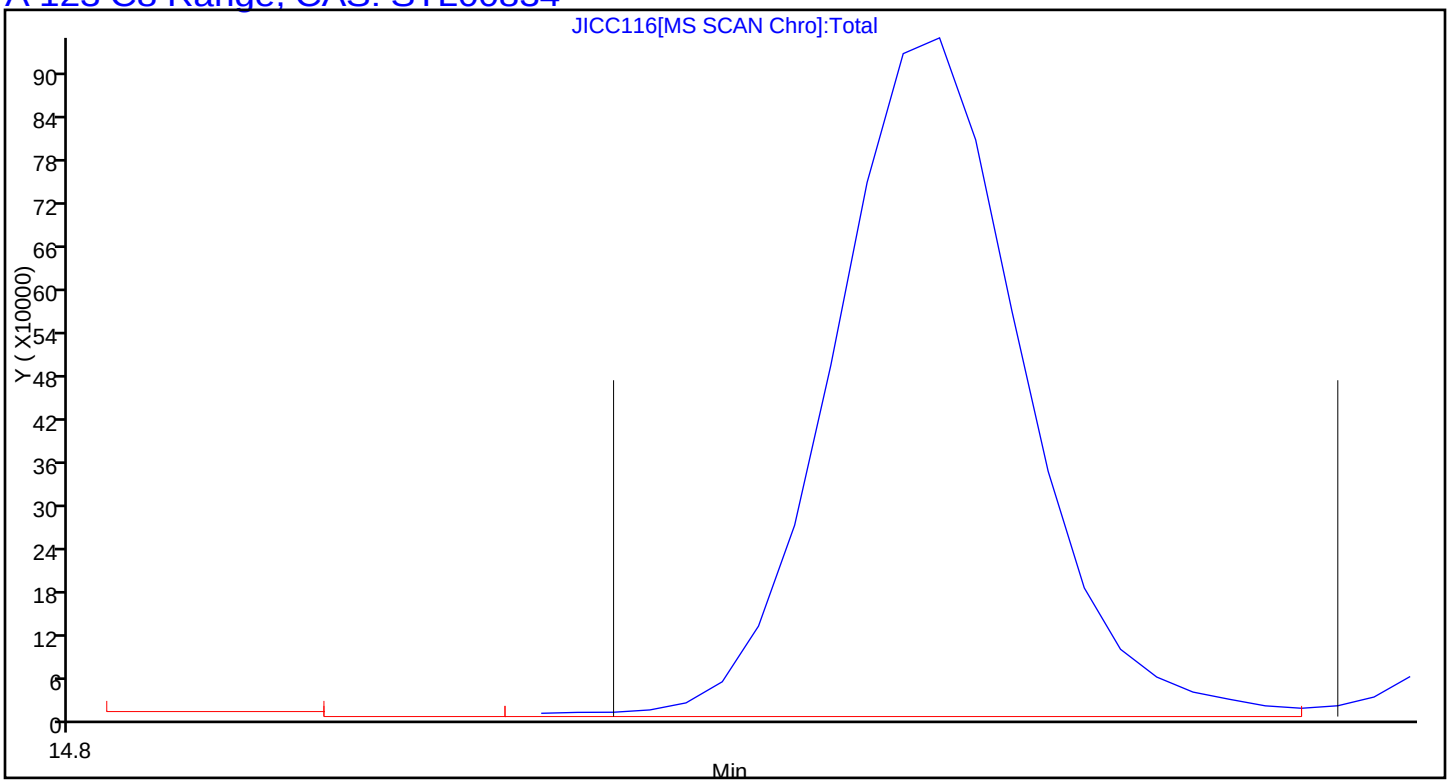


Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D				
Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL7,,1,7,,ICAL 4
Misc. Info.: J031114I,TO15,,140-0000516-008
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 -	8.713	0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 -	14.294	0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 -	14.974	0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

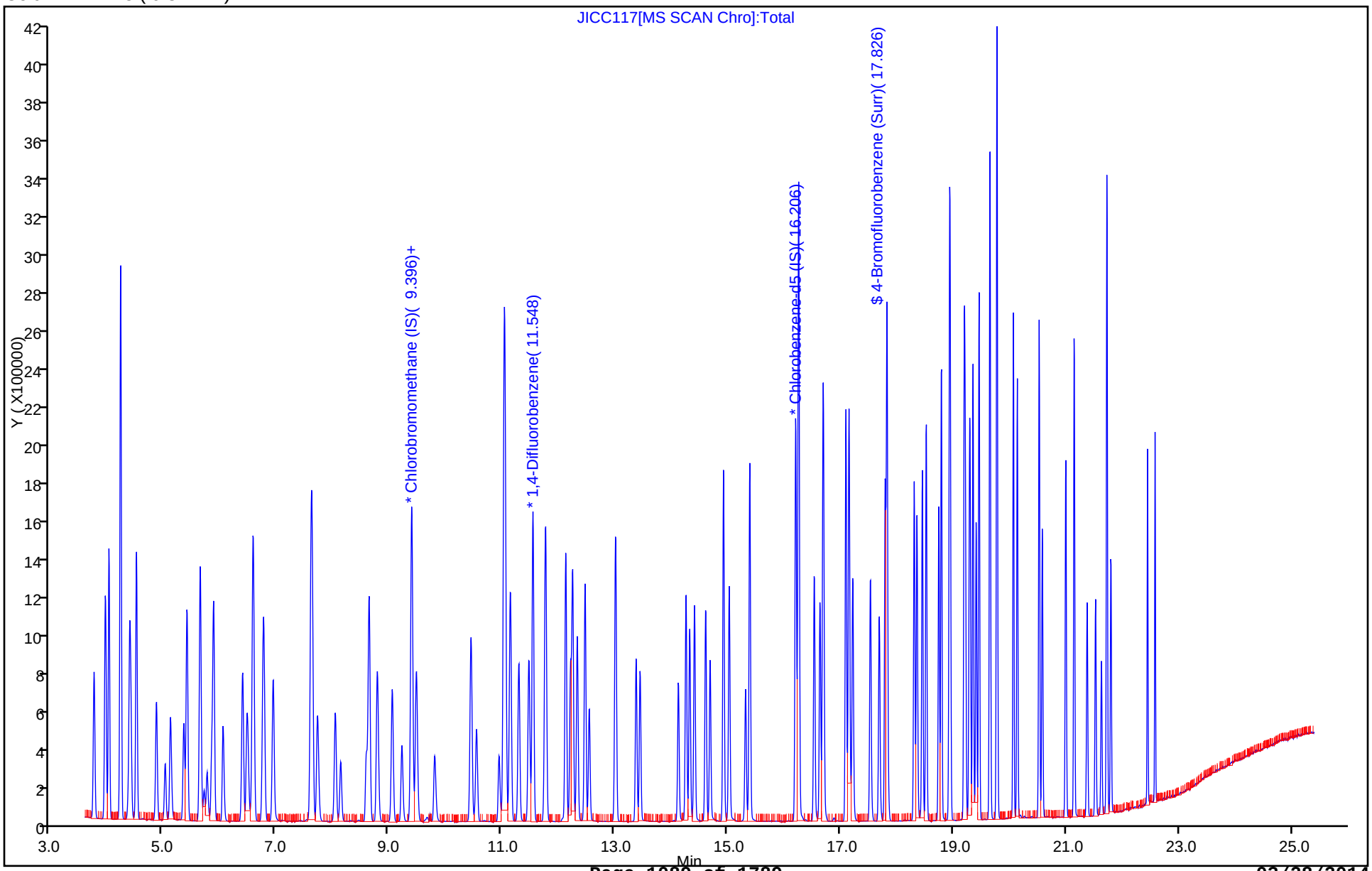
Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

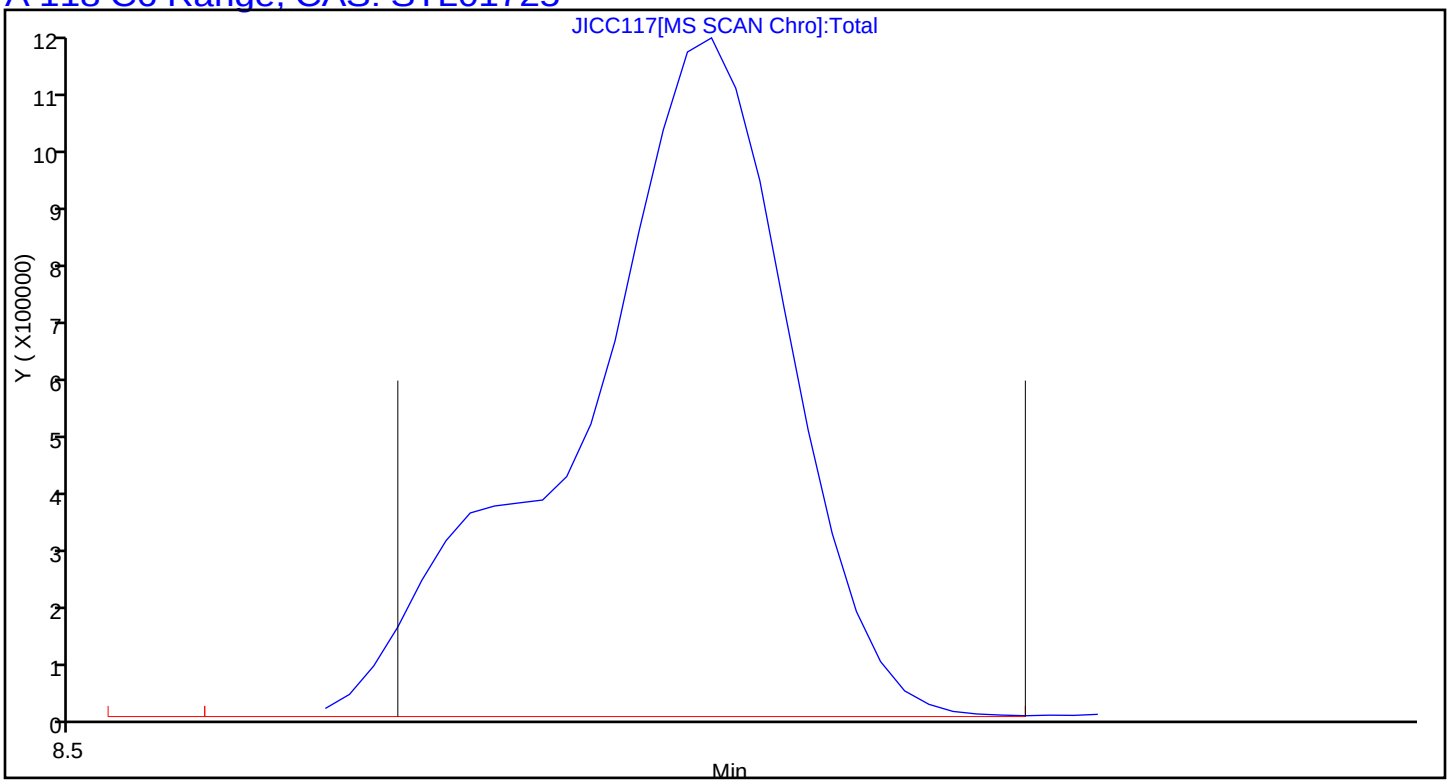


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

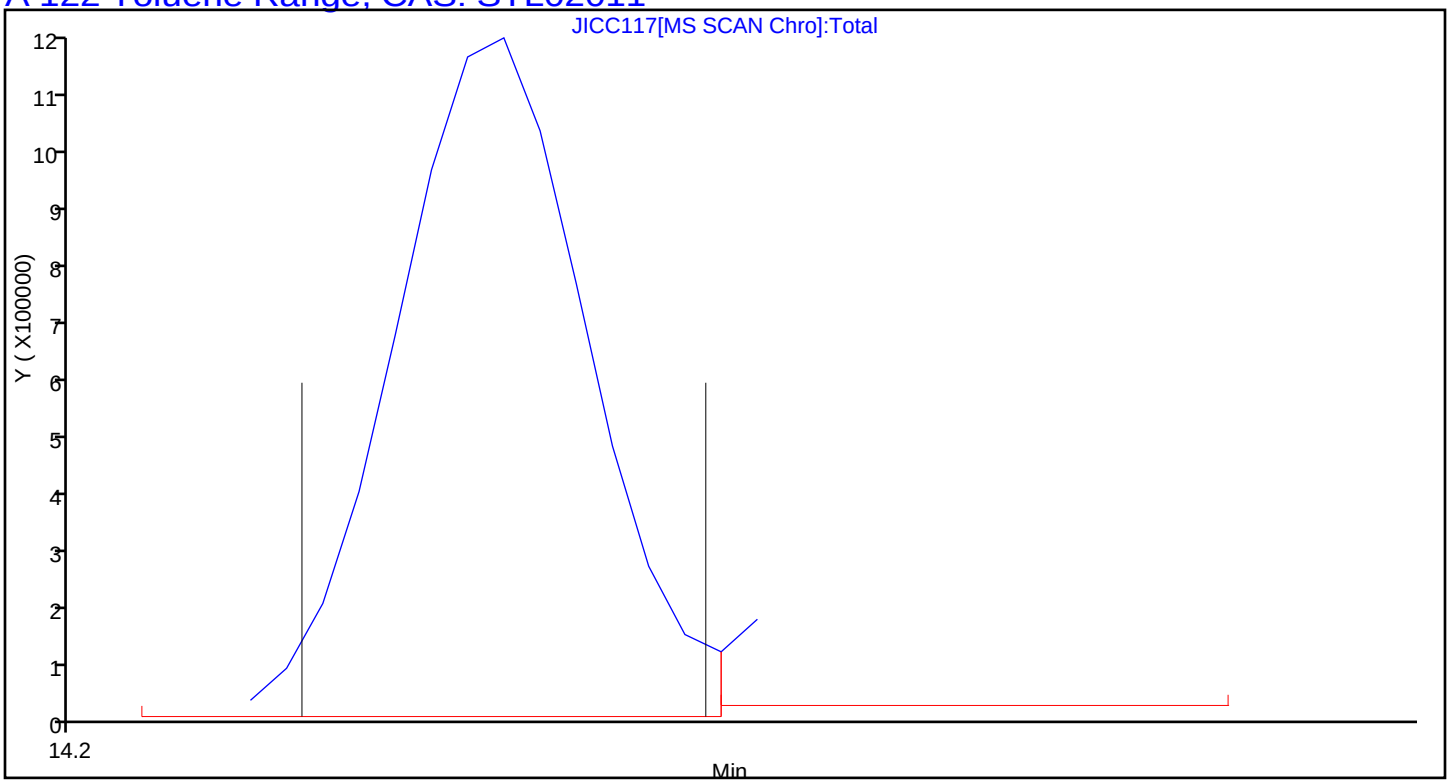


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

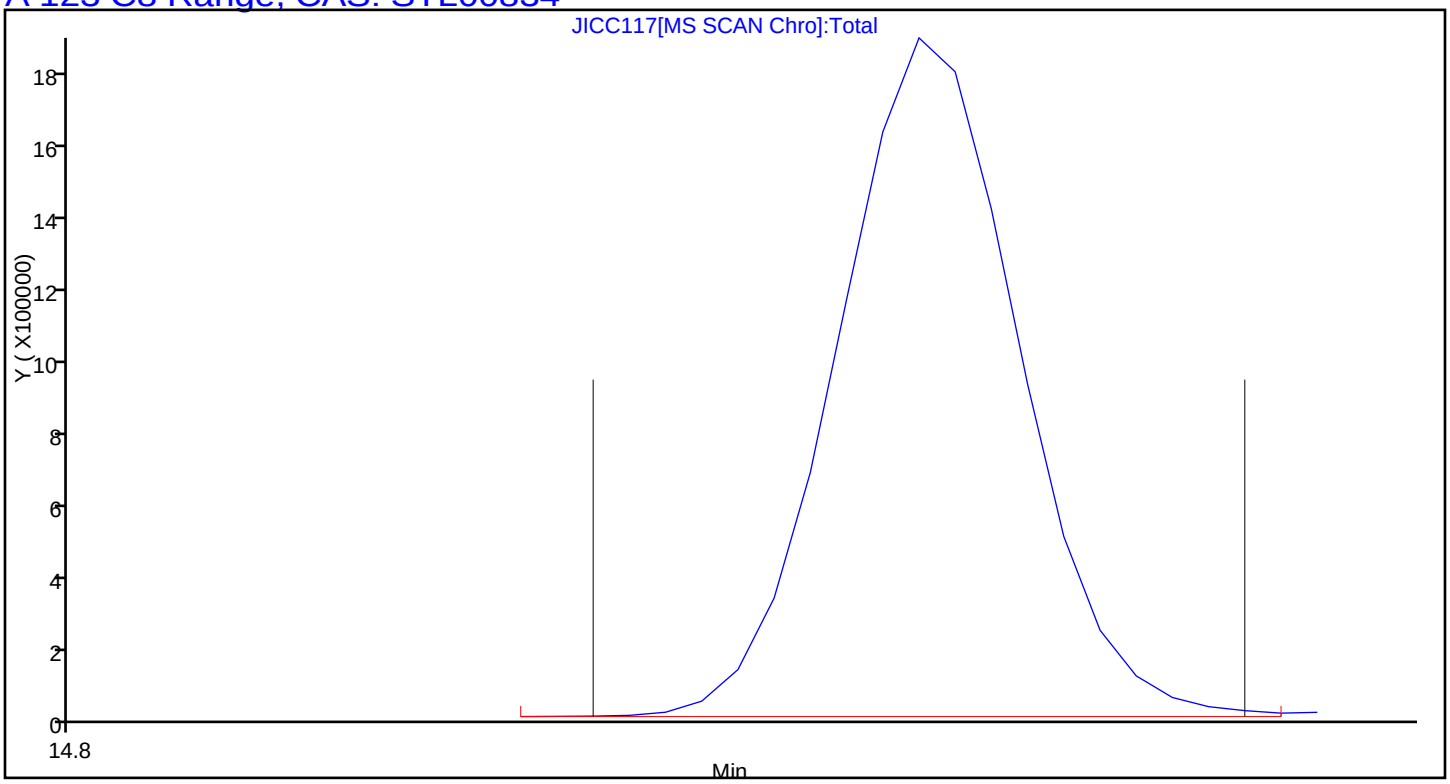


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL8,,1,8,,ICAL 8
Misc. Info.: J031114I,TO15,,140-0000516-009
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 -	8.714	0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 -	14.976	0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

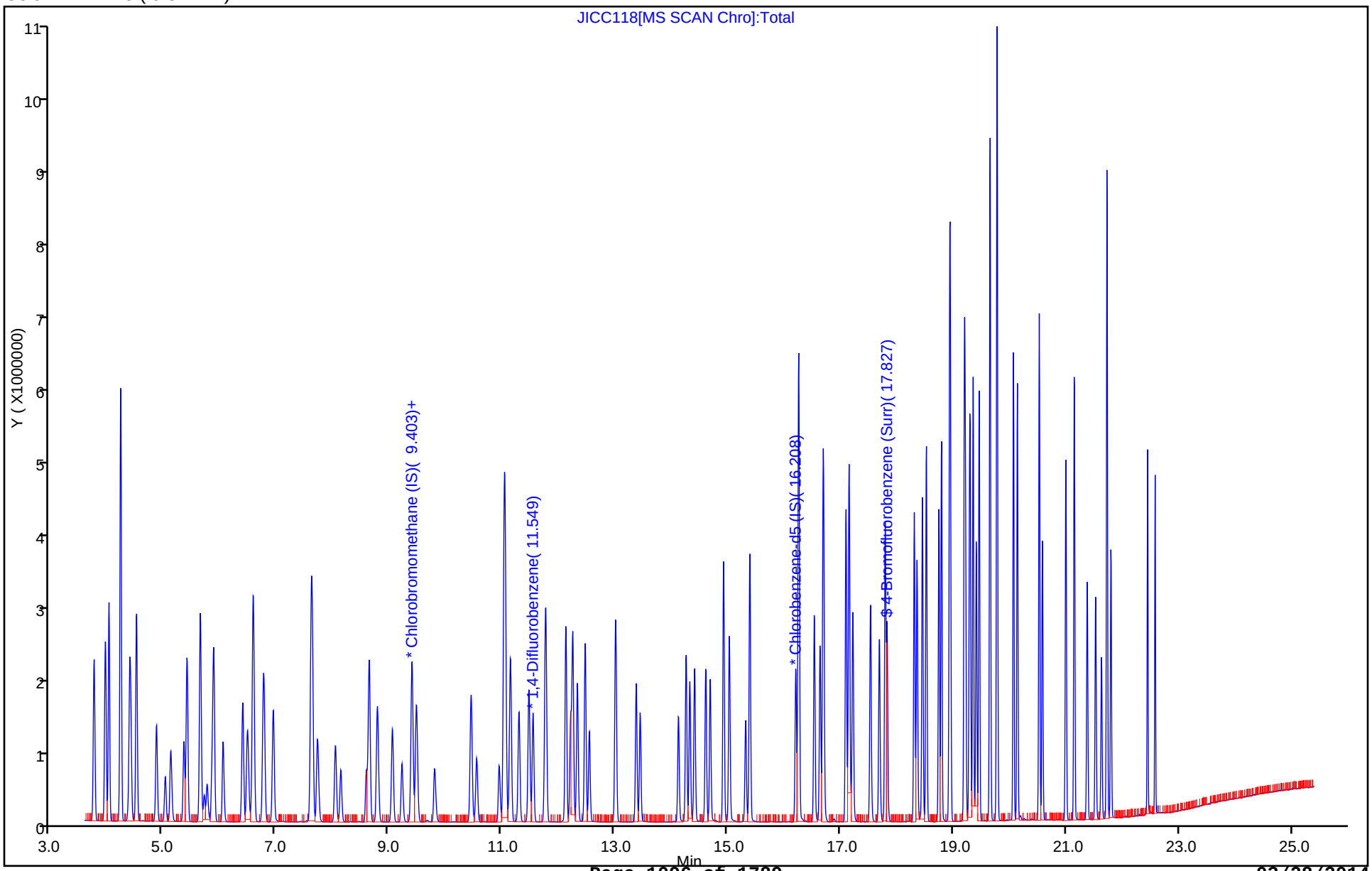
Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

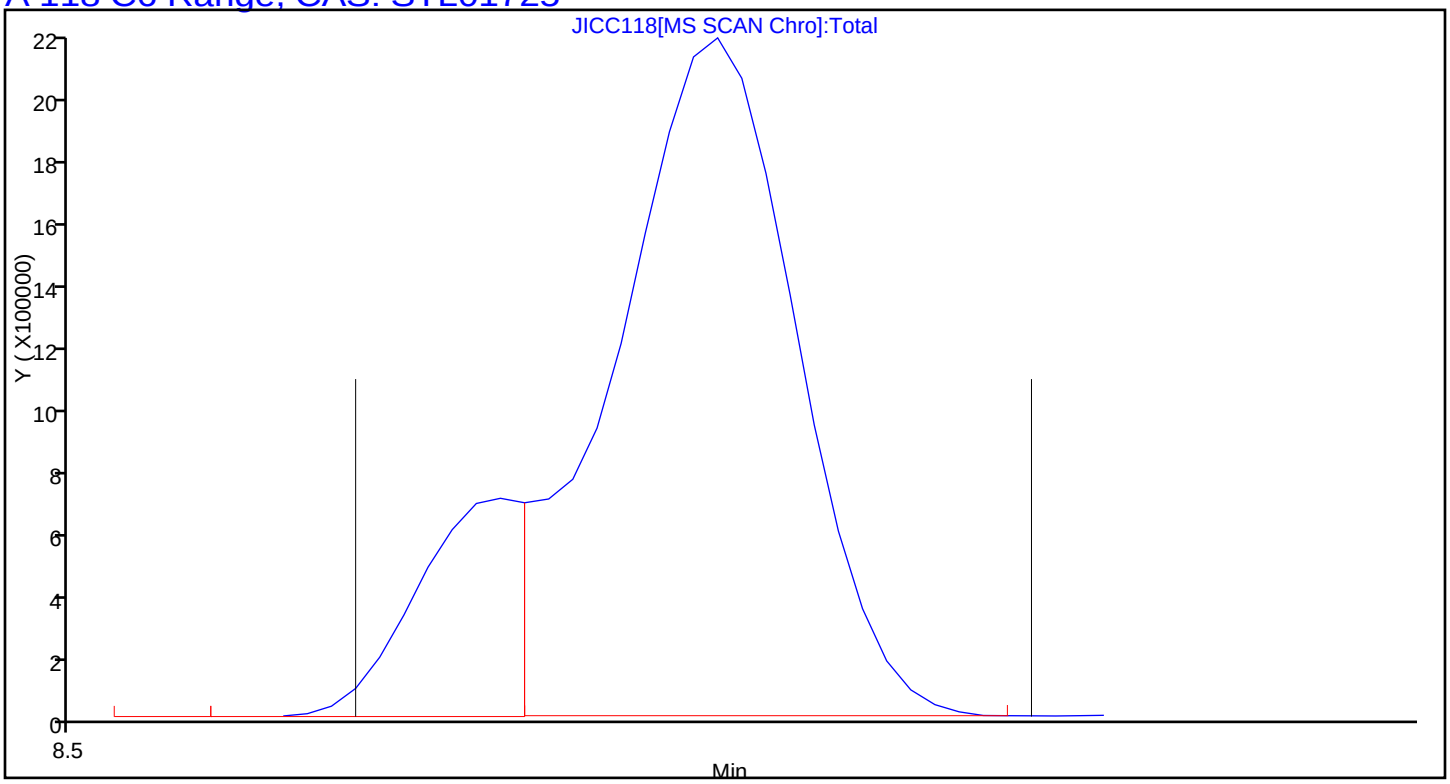


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

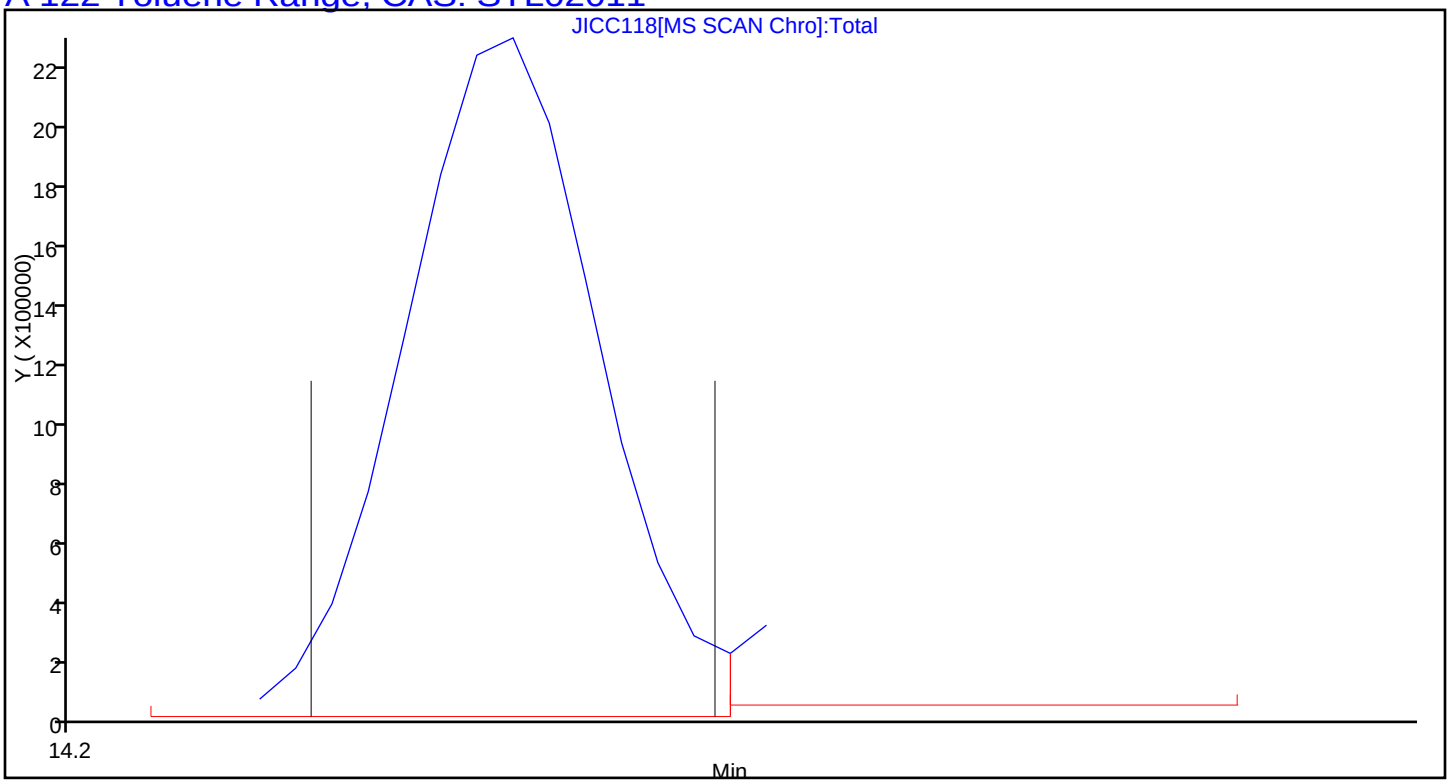


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

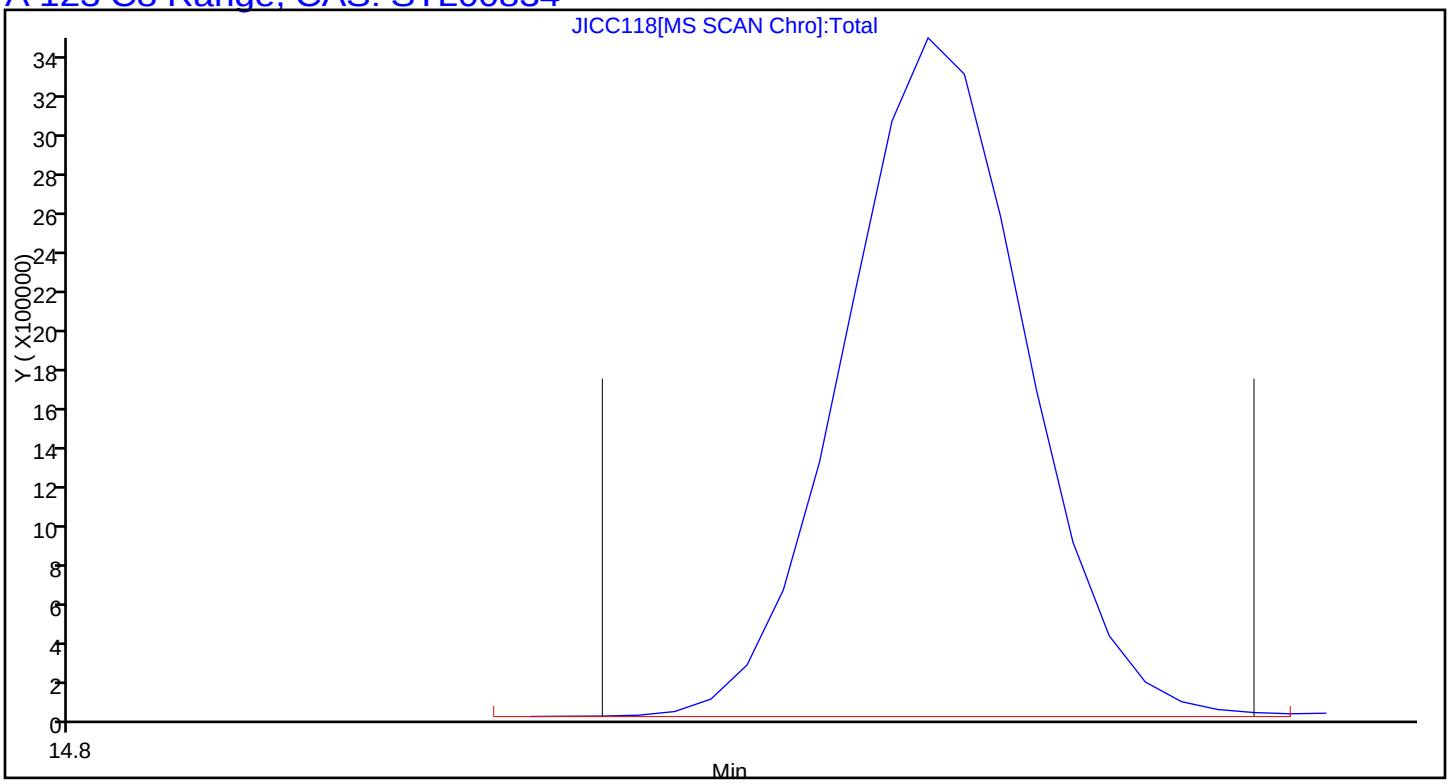


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL9,,1,9,,ICAL 16
Misc. Info.: J031114I,TO15,,140-0000516-010
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

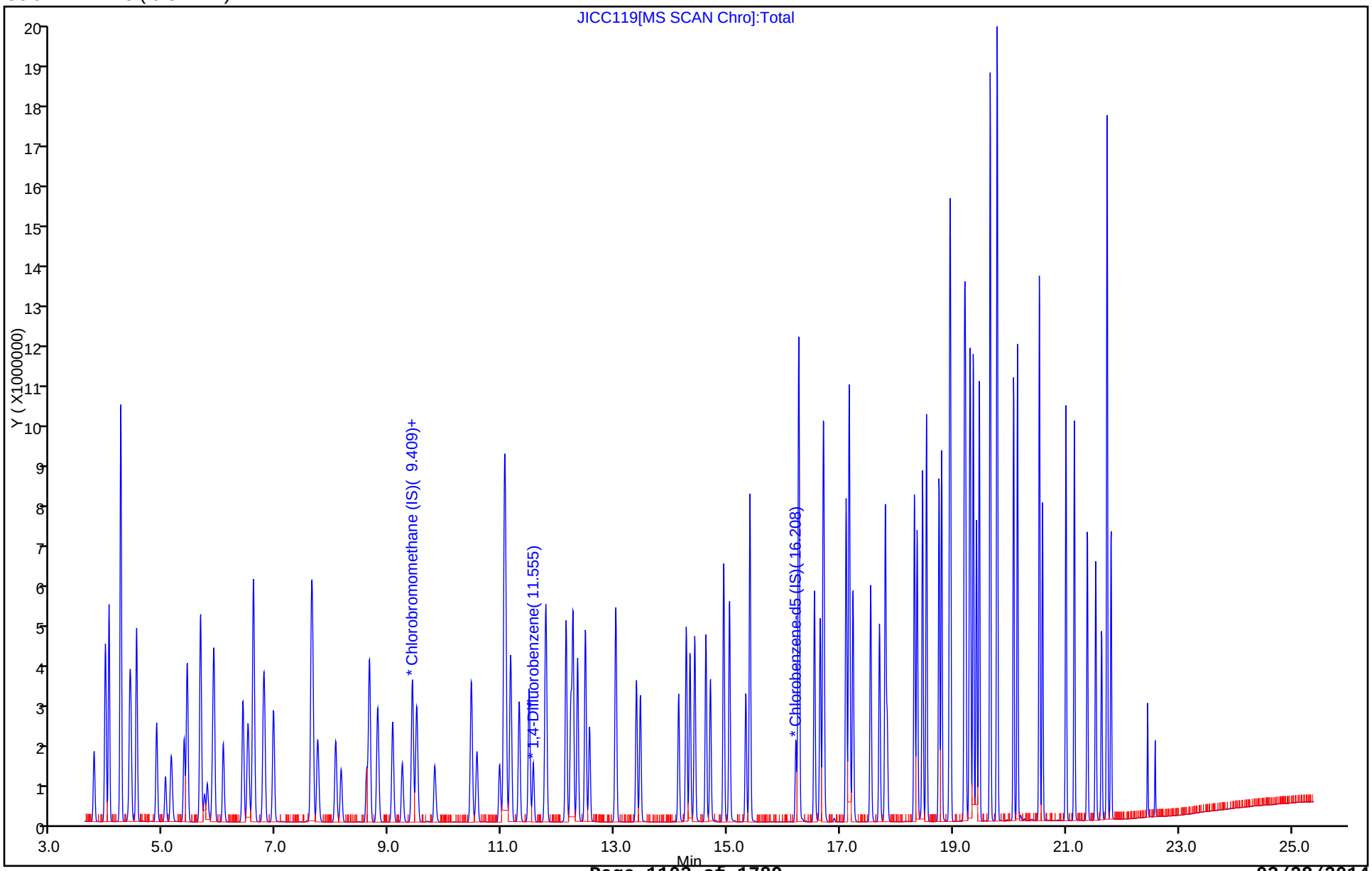
Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

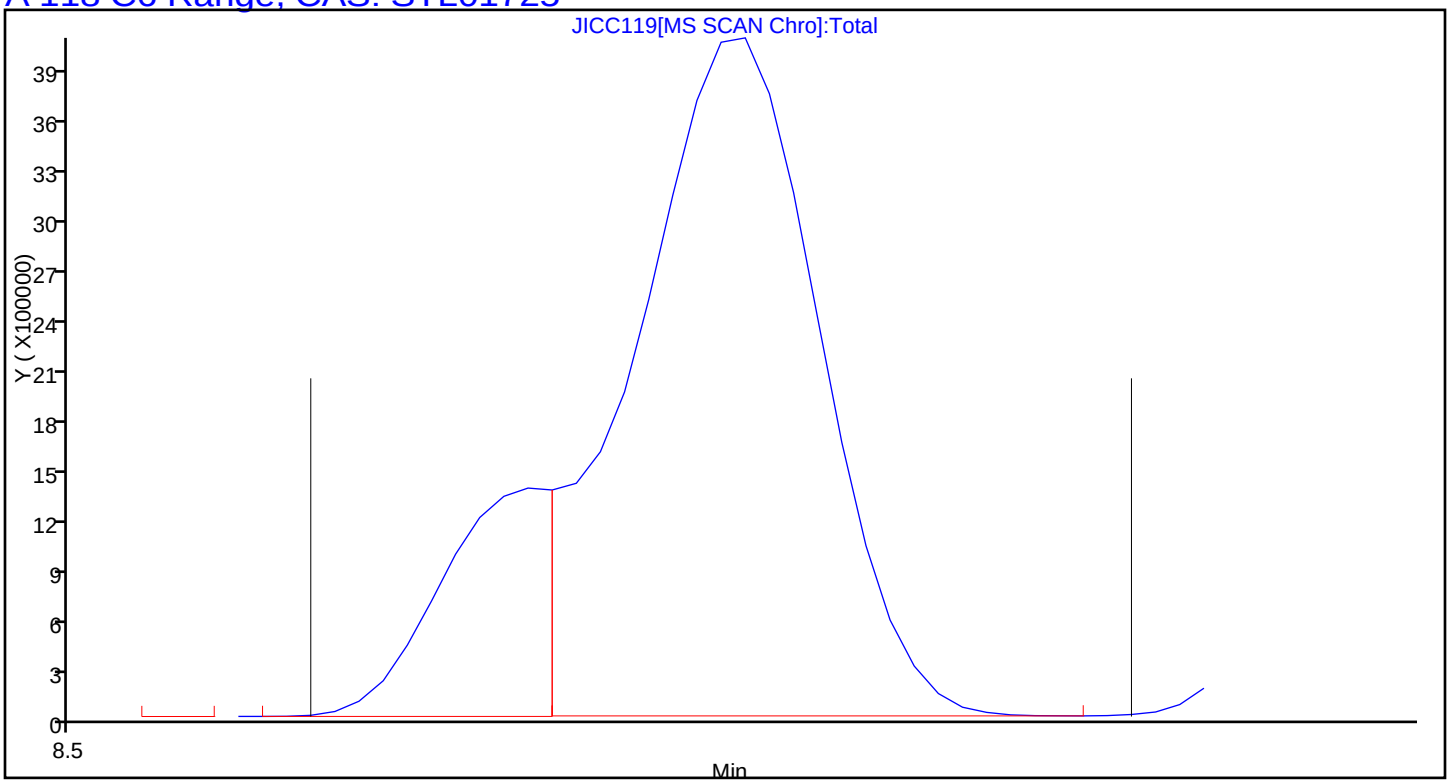


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

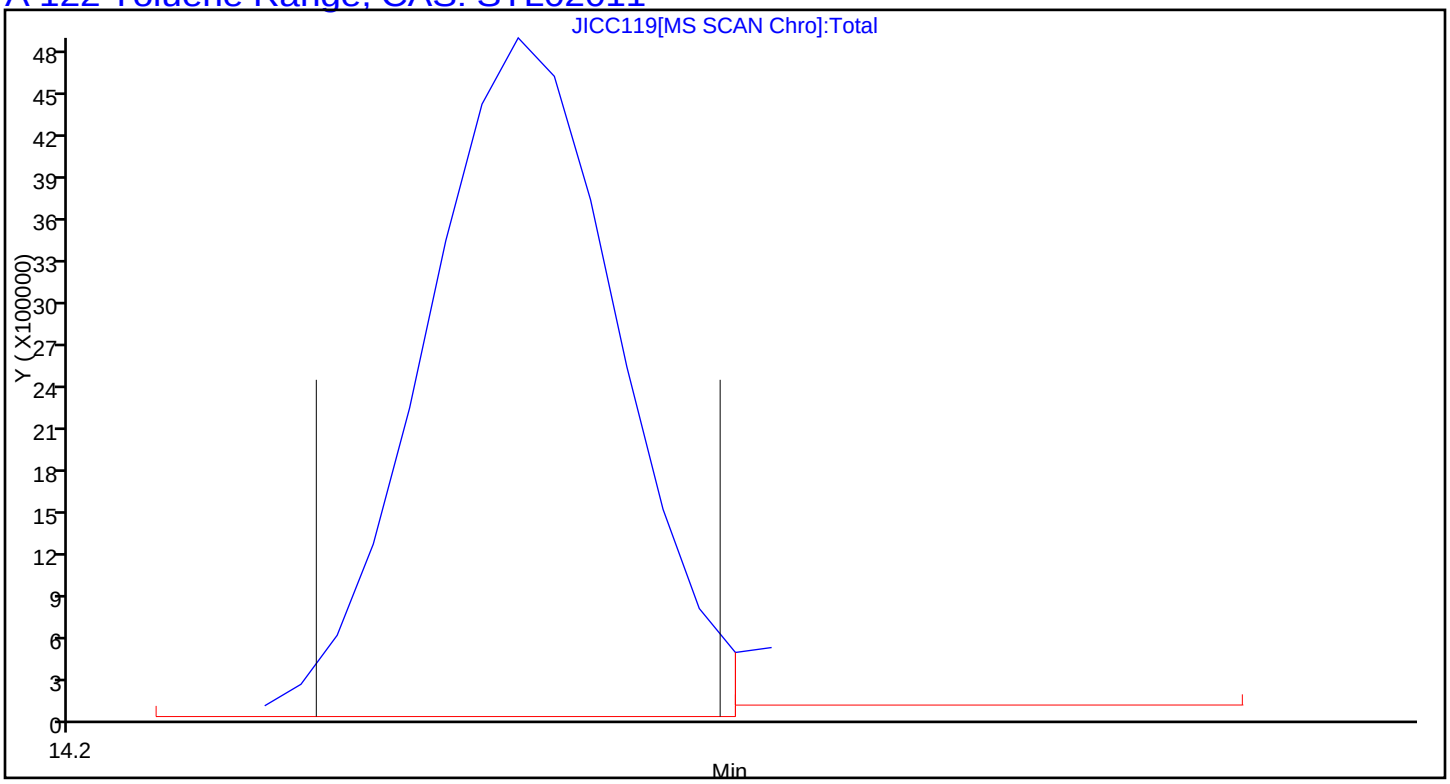


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

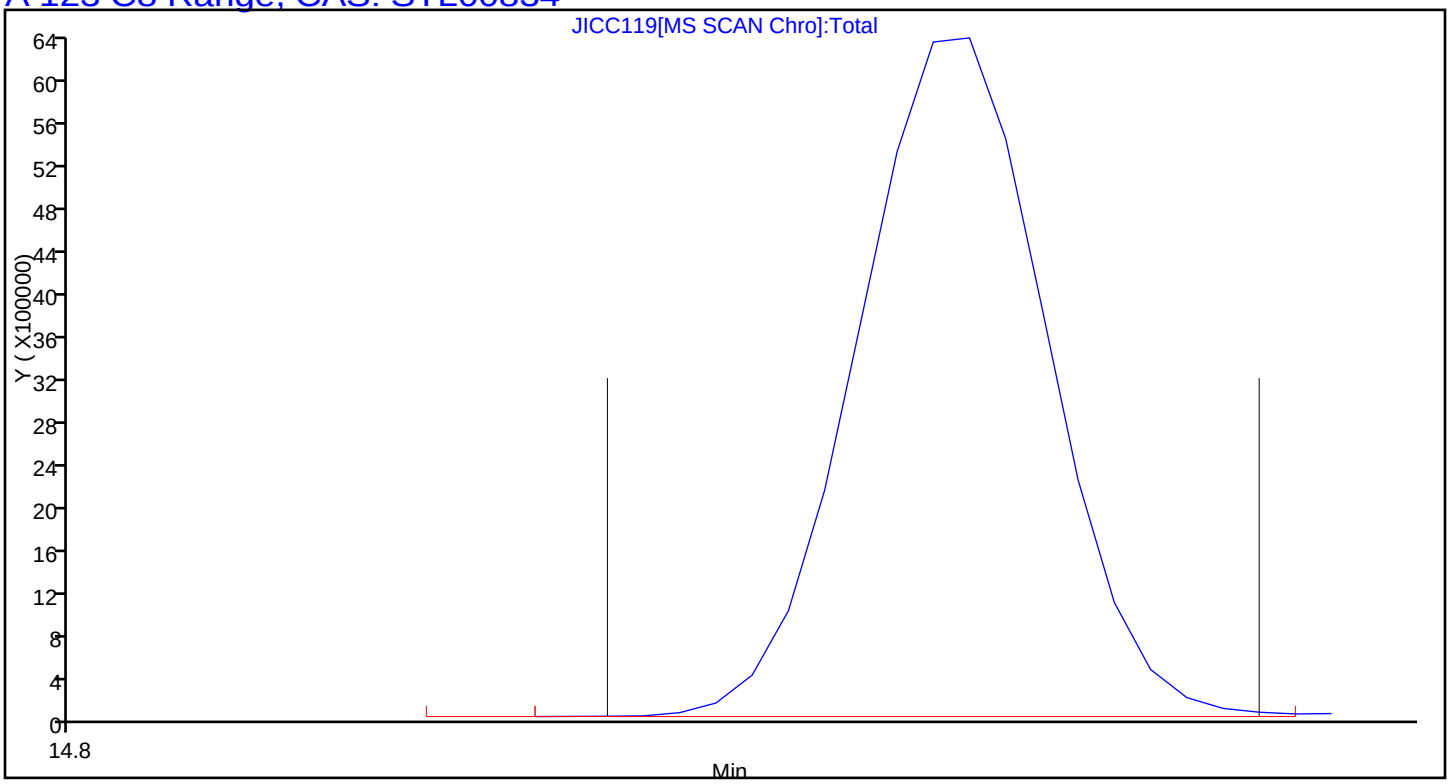


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

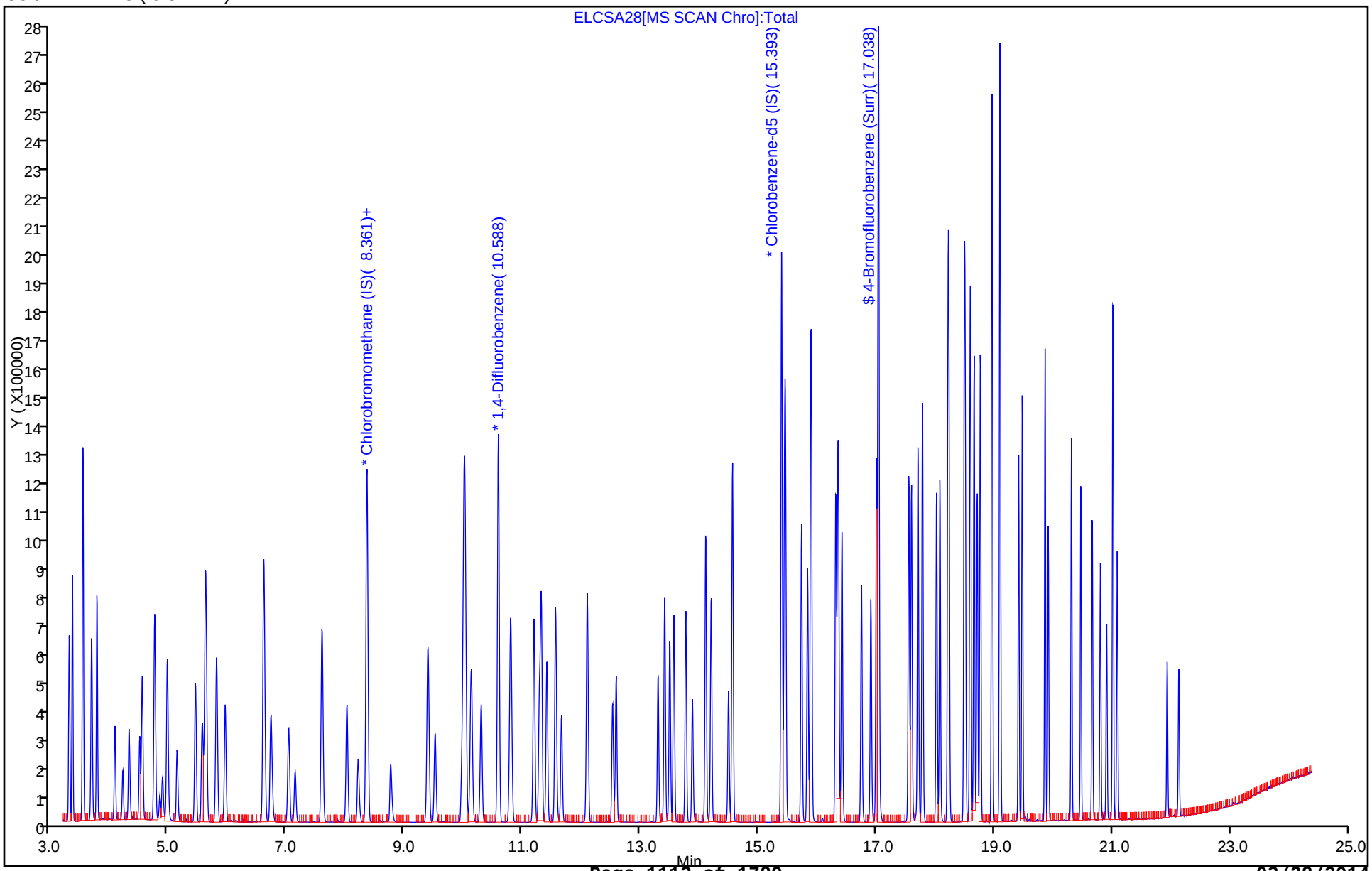
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

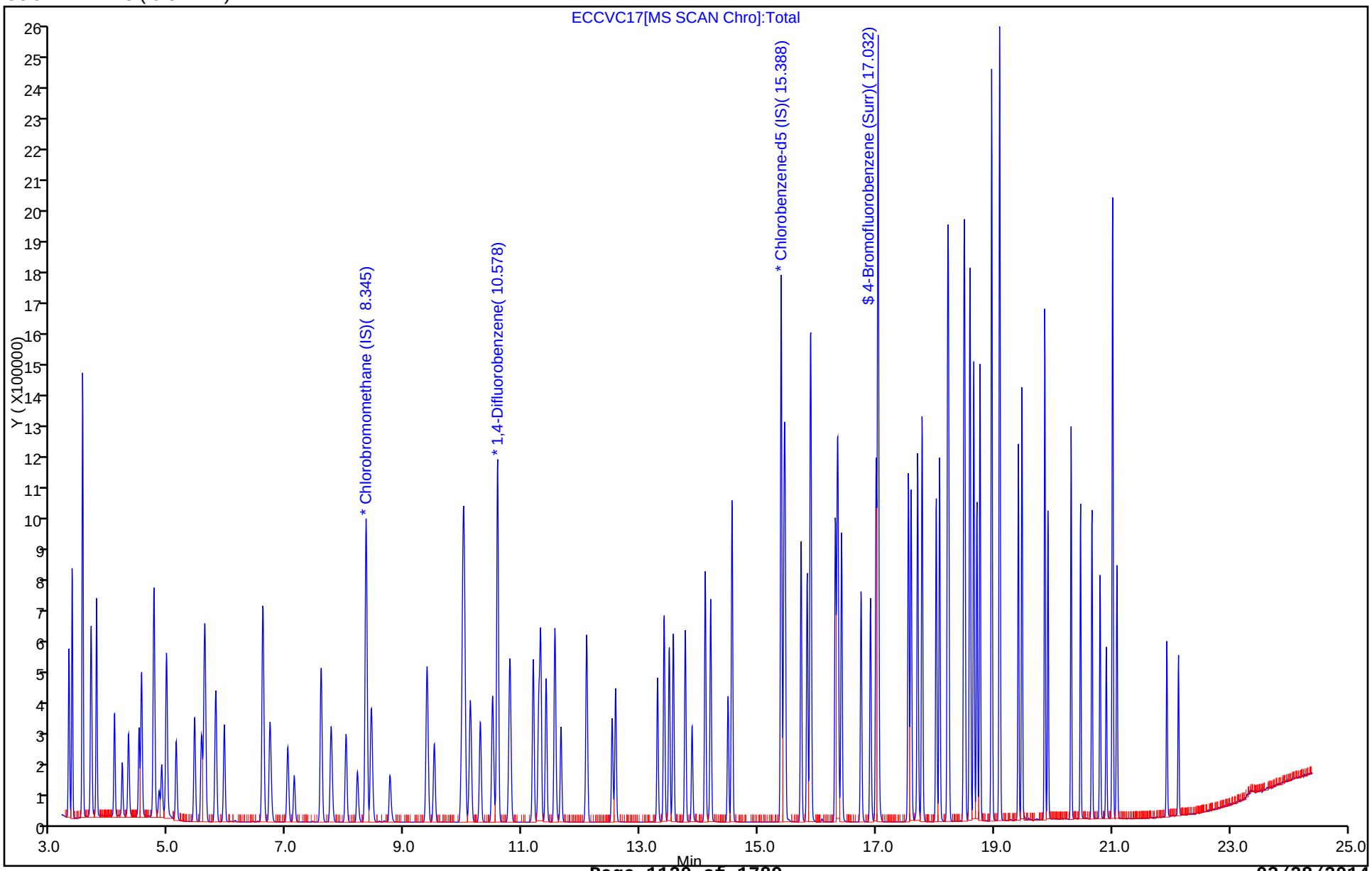
Report Date: 18-Mar-2014 11:58:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17.D

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6131		2.19	2.00	9.3	30.0
Propene	Ave	1.006	0.7148		1.42	2.00	-29.0	30.0
Dichlorodifluoromethane	Ave	4.425	4.988		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3370		1.91	2.00	-4.6	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.378		2.53	2.00	26.7	30.0
Acetaldehyde	Ave	0.3349	0.2969		8.86	10.0	-11.4	50.0
Vinyl chloride	Ave	1.364	1.486		2.18	2.00	8.9	30.0
1,3-Butadiene	Ave	0.9428	0.9411		2.00	2.00	-0.2	30.0
Butane	Ave	1.913	1.753		1.83	2.00	-8.3	30.0
Bromomethane	Ave	1.473	1.790		2.43	2.00	21.6	30.0
Chloroethane	Ave	0.6922	0.7626		2.20	2.00	10.2	30.0
Ethanol	Ave	0.4001	0.3906		9.76	10.0	-2.4	50.0
Vinyl bromide	Ave	1.331	1.806		2.71	2.00	35.7*	30.0
2-Methylbutane	Ave	1.401	1.348		1.93	2.00	-3.7	30.0
Trichlorofluoromethane	Ave	4.438	5.702		2.57	2.00	28.5	30.0
Acrolein	Ave	0.4230	0.3395		1.60	2.00	-19.8	30.0
Acetonitrile	Ave	0.3806	0.3557		1.87	2.00	-6.5	30.0
Acetone	Ave	0.6059	0.5382		1.78	2.00	-11.2	30.0
Pentane	Ave	0.2626	0.3010		2.29	2.00	14.6	30.0
Isopropyl alcohol	Ave	1.560	1.612		2.07	2.00	3.3	30.0
Ethyl ether	Ave	1.018	0.7761		1.52	2.00	-23.8	30.0
1,1-Dichloroethene	Ave	1.190	1.321		2.22	2.00	11.0	30.0
tert-Butyl alcohol	Ave	2.208	2.147		1.94	2.00	-2.8	30.0
Acrylonitrile	Ave	0.7008	0.5085		1.45	2.00	-27.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.047		2.22	2.00	10.9	30.0
Methylene Chloride	Ave	1.143	1.132		1.98	2.00	-1.0	30.0
3-Chloropropene	Ave	1.349	1.091		1.62	2.00	-19.2	30.0
Carbon disulfide	Ave	4.140	3.873		1.87	2.00	-6.5	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.487		2.04	2.00	2.0	30.0
2-Methylpentane	Ave	2.634	1.737		1.32	2.00	-34.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.200		1.76	2.00	-11.9	30.0
1,1-Dichloroethane	Ave	2.467	2.139		1.73	2.00	-13.3	30.0
Vinyl acetate	Ave	2.433	1.463		1.20	2.00	-39.9*	30.0
2-Butanone (MEK)	Ave	0.6547	0.4594		1.40	2.00	-29.8	30.0
Hexane	Ave	1.064	0.8021		1.51	2.00	-24.6	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.320		1.94	2.00	-3.0	30.0
Ethyl acetate	Ave	2.130	1.323		1.24	2.00	-37.9*	30.0
Chloroform	Ave	3.427	3.245		1.89	2.00	-5.3	30.0
Tetrahydrofuran	Ave	1.026	0.5818		1.13	2.00	-43.3*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.014		2.07	2.00	3.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4577		1.87	2.00	-6.6	30.0
1-Butanol	Ave	0.0746	0.0473		1.27	2.00	-36.6*	30.0
Cyclohexane	Ave	0.1509	0.1334		1.77	2.00	-11.6	30.0
Benzene	Ave	0.8050	0.7288		1.81	2.00	-9.5	30.0
Carbon tetrachloride	Ave	0.7733	0.9574		2.48	2.00	23.8	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1647		1.76	2.00	-12.1	50.0
Thiophene	Ave	0.5002	0.4606		1.84	2.00	-7.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.9644		1.55	2.00	-22.4	30.0
Heptane	Ave	0.3047	0.2717		1.78	2.00	-10.8	30.0
1,2-Dichloropropane	Ave	0.2586	0.2092		1.62	2.00	-19.1	30.0
Trichloroethene	Ave	0.3975	0.4201		2.11	2.00	5.7	30.0
Dibromomethane	Ave	0.3799	0.3764		1.98	2.00	-0.9	30.0
Bromodichloromethane	Ave	0.7571	0.7642		2.02	2.00	0.9	30.0
1,4-Dioxane	Ave	0.1068	0.1085		2.03	2.00	1.5	30.0
Methyl methacrylate	Ave	0.3033	0.2072		1.37	2.00	-31.7*	30.0
Methylcyclohexane	Ave	0.5694	0.5199		1.83	2.00	-8.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3137		1.32	2.00	-33.8*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4072		1.78	2.00	-10.8	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.4669		1.73	2.00	-13.6	30.0
Toluene	Ave	1.072	1.006		1.88	2.00	-6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2845		1.80	2.00	-9.8	30.0
2-Methylthiophene	Ave	0.9307	0.9345		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9366		2.00	2.00	-0.1	50.0
2-Hexanone	Ave	0.2529	0.2011		1.59	2.00	-20.5	30.0
Octane	Ave	0.3821	0.3936		2.06	2.00	3.0	30.0
Dibromochloromethane	Ave	0.7144	0.8514		2.38	2.00	19.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5576		1.98	2.00	-1.0	30.0
Tetrachloroethene	Ave	0.4564	0.5102		2.24	2.00	11.8	30.0
Chlorobenzene	Ave	0.8545	0.9147		2.14	2.00	7.0	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5823		1.42	2.00	-29.1	50.0
Ethylbenzene	Ave	1.374	1.334		1.94	2.00	-2.9	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.9	50.0
m-Xylene & p-Xylene	Ave	1.080	1.123		4.16	4.00	4.0	30.0
Nonane	Ave	0.5994	0.4920		1.64	2.00	-17.9	30.0
Bromoform	Ave	0.6422	0.8649		2.69	2.00	34.7*	30.0
Styrene	Ave	0.7475	0.7951		2.13	2.00	6.4	30.0
o-Xylene	Ave	1.168	1.179		2.02	2.00	0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.6578		1.91	2.00	-4.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2683		2.14	2.00	7.2	30.0
Isopropylbenzene	Ave	1.542	1.657		2.15	2.00	7.4	30.0
Propylbenzene	Ave	0.4031	0.4305		2.14	2.00	6.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4193		2.18	2.00	9.1	30.0
4-Ethyltoluene	Ave	1.477	1.606		2.17	2.00	8.7	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7524		2.25	2.00	12.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6536		2.37	2.00	18.3	30.0
Decane	Ave	0.6339	0.5849		1.85	2.00	-7.7	30.0
tert-Butylbenzene	Ave	1.348	1.532		2.27	2.00	13.7	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.464		2.38	2.00	19.2	30.0
sec-Butylbenzene	Ave	1.656	1.919		2.32	2.00	15.9	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9756		2.44	2.00	22.2	30.0
Benzyl chloride	Ave	1.010	1.146		2.27	2.00	13.5	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9456		2.41	2.00	20.4	30.0
4-Isopropyltoluene	Ave	1.399	1.715		2.45	2.00	22.6	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.226		2.35	2.00	17.7	50.0
Butylcyclohexane	Ave	0.9625	1.006		2.09	2.00	4.5	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9478		2.49	2.00	24.6	30.0
Indane	Ave	1.073	1.244		2.32	2.00	16.0	50.0
Indene	Ave	1.019	1.254		2.46	2.00	23.1	50.0
Butylbenzene	Ave	1.239	1.520		2.45	2.00	22.7	30.0
Undecane	Ave	0.5595	0.5470		1.96	2.00	-2.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.606		2.67	2.00	33.6	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.644		2.76	2.00	38.2	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.040		2.68	2.00	33.8	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.323		2.67	2.00	33.3	50.0
Dodecane	Ave	0.4200	0.5174		2.46	2.00	23.2	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6801		2.68	2.00	34.0*	30.0
Naphthalene	Ave	0.8890	1.256		2.83	2.00	41.3*	30.0
Benzo(b)thiophene	Ave	0.6431	0.8876		2.76	2.00	38.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.9790		2.95	2.00	47.6*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.6021		3.18	2.00	58.8*	30.0
2-Methylnaphthalene	Ave	0.0420	0.1220		36.3	12.5	190.5*	50.0
1-Methylnaphthalene	Ave	0.0366	0.1101		37.6	12.5	201.1*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8723		3.98	4.00	-0.4	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\ECCVC20.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Mar-2014 13:10:30 ALS Bottle#: 12 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032014,TO155,,140-0000533-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 15:52:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: barlozhetskayaa Date: 20-Mar-2014 15:47:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	74	289601	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	94	1358612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1179251	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1028624	3.98	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	88779	2.19	
7 Propene	41	3.314	3.314	0.0	92	103506	1.42	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	722290	2.25	
9 Chloromethane	52	3.530	3.530	0.0	98	48803	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	91	489126	2.53	
11 Acetaldehyde	44	3.681	3.681	0.0	92	214958	8.86	
12 Vinyl chloride	62	3.692	3.692	0.0	99	215153	2.18	
13 Butadiene	54	3.772	3.772	0.0	74	136268	2.00	
14 Butane	43	3.772	3.772	0.0	81	253837	1.83	
15 Bromomethane	94	4.080	4.080	0.0	99	259201	2.43	
16 Chloroethane	64	4.209	4.209	0.0	97	110420	2.20	
17 Ethanol	31	4.317	4.317	0.0	97	282774	9.76	
18 Vinyl bromide	106	4.495	4.495	0.0	97	261488	2.71	
19 2-Methylbutane	43	4.538	4.538	0.0	85	195238	1.93	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	825608	2.57	
20 Acrolein	56	4.765	4.765	0.0	95	49152	1.60	
22 Acetonitrile	40	4.835	4.835	0.0	97	51504	1.87	
23 Acetone	58	4.883	4.883	0.0	87	77938	1.78	
25 Pentane	72	4.959	4.959	0.0	96	43586	2.29	
24 Isopropyl alcohol	45	4.970	4.970	0.0	89	233419	2.07	
26 Ethyl ether	31	5.126	5.126	0.0	77	112385	1.52	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	191222	2.22	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	310867	1.94	
28 Acrylonitrile	53	5.557	5.557	0.0	86	73628	1.45	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	95	441179	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	78	163866	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.805	0.0	79	157984	1.62	
33 Carbon disulfide	76	5.940	5.940	0.0	100	560803	1.87	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	215294	2.04	
35 2-Methylpentane	43	6.603	6.603	0.0	83	251481	1.32	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	93	463392	1.76	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	98	309740	1.73	
38 Vinyl acetate	43	7.127	7.127	0.0	98	211840	1.20	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	66518	1.40	
40 Hexane	56	7.585	7.585	0.0	84	116146	1.51	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	191102	1.94	
42 Ethyl acetate	43	8.200	8.200	0.0	97	191515	1.24	
43 Chloroform	83	8.356	8.356	0.0	96	469941	1.89	
44 Tetrahydrofuran	42	8.750	8.750	0.0	69	84250	1.13	
45 1,1,1-Trichloroethane	97	9.381	9.381	0.0	94	581241	2.07	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	310924	1.87	
47 n-Butanol	31	9.958	9.958	0.0	71	32097	1.27	
49 Cyclohexane	69	9.984	9.984	0.0	90	90599	1.77	
48 Benzene	78	9.995	9.995	0.0	96	495041	1.81	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	650392	2.48	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	83	111892	1.76	
52 Thiophene	84	10.286	10.286	0.0	91	312906	1.84	
53 Isooctane	57	10.788	10.788	0.0	96	655127	1.55	
54 n-Heptane	71	11.182	11.182	0.0	75	184593	1.78	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	79	142107	1.62	
56 Trichloroethene	130	11.306	11.306	0.0	96	285348	2.11	
57 Dibromomethane	93	11.397	11.397	0.0	94	255681	1.98	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	519133	2.02	
59 1,4-Dioxane	88	11.564	11.564	0.0	82	73669	2.03	
60 Methyl methacrylate	41	11.651	11.651	0.0	76	140753	1.37	
61 Methylcyclohexane	83	12.088	12.088	0.0	90	353134	1.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	90	213089	1.32	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	94	276588	1.78	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	275309	1.73	
65 Toluene	91	13.398	13.398	0.0	94	593323	1.88	
66 1,1,2-Trichloroethane	83	13.490	13.490	0.0	96	167744	1.80	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	550995	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	552219	2.00	
69 2-Hexanone	58	13.878	13.878	0.0	96	118593	1.59	
70 n-Octane	85	14.099	14.099	0.0	71	232095	2.06	
71 Chlorodibromomethane	129	14.191	14.191	0.0	96	502022	2.38	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	328771	1.98	
73 Tetrachloroethene	129	14.552	14.552	0.0	95	300820	2.24	
74 Chlorobenzene	112	15.436	15.436	0.0	86	539331	2.14	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	71	343353	1.42	
76 Ethylbenzene	91	15.722	15.722	0.0	98	786777	1.94	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	667727	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	98	1324154	4.16	
81 n-Nonane	57	16.304	16.304	0.0	73	290118	1.64	
79 Bromoform	173	16.337	16.337	0.0	97	509957	2.69	
80 Styrene	104	16.347	16.347	0.0	95	468834	2.13	
82 o-Xylene	91	16.412	16.412	0.0	98	694899	2.02	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	387842	1.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.898	16.898	0.0	94	158204	2.14	
85 Isopropylbenzene	105	16.995	16.995	0.0	97	977105	2.15	
86 N-Propylbenzene	120	17.545	17.545	0.0	99	253833	2.14	
87 2-Chlorotoluene	126	17.588	17.588	0.0	97	247221	2.18	
88 4-Ethyltoluene	105	17.701	17.701	0.0	99	947069	2.17	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	443610	2.25	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	385349	2.37	
91 n-Decane	57	18.073	18.073	0.0	96	344886	1.85	
92 tert-Butylbenzene	119	18.208	18.208	0.0	86	903532	2.27	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	94	863025	2.38	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1131539	2.32	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	575227	2.44	
96 Benzyl chloride	91	18.580	18.580	0.0	98	675603	2.27	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	93	557522	2.41	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	86	1011026	2.45	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	98	723153	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	593160	2.09	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	90	733640	2.32	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	558867	2.49	
103 Indene	116	19.087	19.087	0.0	87	739526	2.46	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	896105	2.45	
106 Undecane	57	19.410	19.410	0.0	85	322521	1.96	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	946883	2.67	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	969403	2.76	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	95	613437	2.68	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	780314	2.67	
110 Dodecane	57	20.462	20.462	0.0	89	305080	2.46	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	94	400984	2.68	
112 Naphthalene	128	20.796	20.796	0.0	98	740550	2.83	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	523332	2.76	
114 Hexachlorobutadiene	225	21.007	21.007	0.0	86	577219	2.95	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	94	355002	3.18	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	99	449561	36.3	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	405727	37.6	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1359194	1.46	
A 119 Toluene Range	1	13.398	13.349 -	13.446	0	1444592	1.78	
A 120 C8 Range	1	14.091	14.050 -	14.158	0	1652132	1.70	
S 124 Xylenes, Total	100				0		6.18	

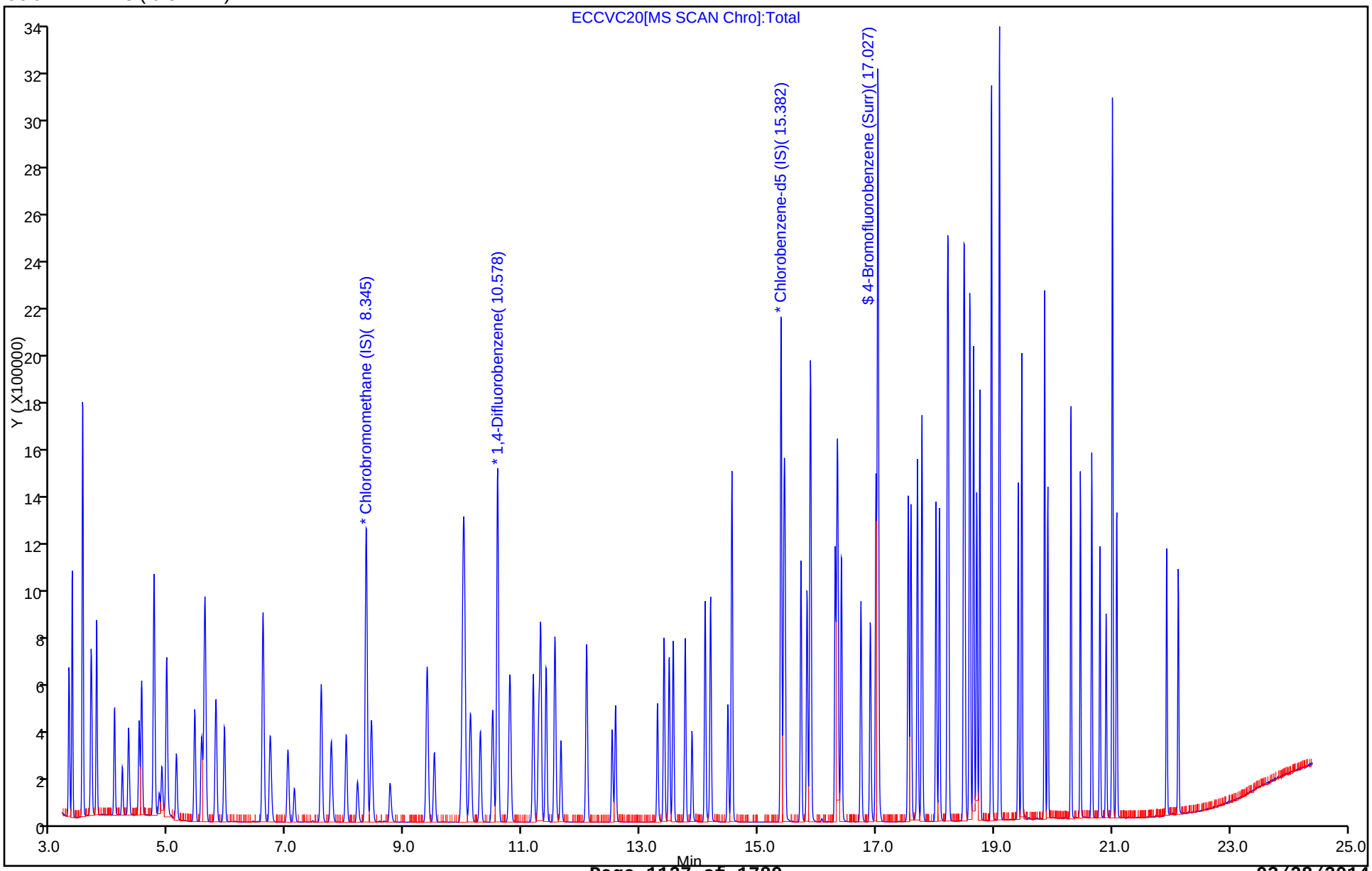
Report Date: 20-Mar-2014 15:52:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\ECCVC20.D

Injection Date:	20-Mar-2014 13:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6018		2.15	2.00	7.3	30.0
Propene	Ave	1.006	0.6738		1.34	2.00	-33.0*	30.0
Dichlorodifluoromethane	Ave	4.425	4.986		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3150		1.78	2.00	-10.8	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.450		2.59	2.00	29.4	30.0
Acetaldehyde	Ave	0.3349	0.3105		9.27	10.0	-7.3	50.0
Vinyl chloride	Ave	1.364	1.446		2.12	2.00	6.0	30.0
1,3-Butadiene	Ave	0.9428	0.9102		1.93	2.00	-3.5	30.0
Butane	Ave	1.913	1.741		1.82	2.00	-8.9	30.0
Bromomethane	Ave	1.473	1.715		2.33	2.00	16.5	30.0
Chloroethane	Ave	0.6922	0.7430		2.15	2.00	7.4	30.0
Ethanol	Ave	0.4001	0.3408		8.52	10.0	-14.8	50.0
Vinyl bromide	Ave	1.331	1.746		2.62	2.00	31.2*	30.0
2-Methylbutane	Ave	1.401	1.318		1.88	2.00	-5.9	30.0
Trichlorofluoromethane	Ave	4.438	5.761		2.60	2.00	29.8	30.0
Acrolein	Ave	0.4230	0.4445		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3806	0.3860		2.03	2.00	1.4	30.0
Acetone	Ave	0.6059	0.5527		1.82	2.00	-8.8	30.0
Pentane	Ave	0.2626	0.2920		2.22	2.00	11.2	30.0
Isopropyl alcohol	Ave	1.560	1.396		1.79	2.00	-10.5	30.0
Ethyl ether	Ave	1.018	0.8243		1.62	2.00	-19.0	30.0
1,1-Dichloroethene	Ave	1.190	1.204		2.02	2.00	1.2	30.0
tert-Butyl alcohol	Ave	2.208	1.774		1.61	2.00	-19.6	30.0
Acrylonitrile	Ave	0.7008	0.5693		1.62	2.00	-18.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.011		2.19	2.00	9.6	30.0
Methylene Chloride	Ave	1.143	1.099		1.92	2.00	-3.9	30.0
3-Chloropropene	Ave	1.349	1.019		1.51	2.00	-24.5	30.0
Carbon disulfide	Ave	4.140	3.782		1.83	2.00	-8.6	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.407		1.93	2.00	-3.5	30.0
2-Methylpentane	Ave	2.634	1.630		1.24	2.00	-38.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.618		1.99	2.00	-0.3	30.0
1,1-Dichloroethane	Ave	2.467	2.129		1.73	2.00	-13.7	30.0
Vinyl acetate	Ave	2.433	1.738		1.43	2.00	-28.6	30.0
2-Butanone (MEK)	Ave	0.6547	0.4803		1.47	2.00	-26.6	30.0
Hexane	Ave	1.064	0.7722		1.45	2.00	-27.4	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.238		1.82	2.00	-9.0	30.0
Ethyl acetate	Ave	2.130	1.422		1.34	2.00	-33.2*	30.0
Chloroform	Ave	3.427	3.348		1.95	2.00	-2.3	30.0
Tetrahydrofuran	Ave	1.026	0.6287		1.23	2.00	-38.7*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.097		2.11	2.00	5.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4730		1.93	2.00	-3.5	30.0
1-Butanol	Ave	0.0746	0.0367		0.985	2.00	-50.8*	30.0
Cyclohexane	Ave	0.1509	0.1226		1.62	2.00	-18.8	30.0
Benzene	Ave	0.8050	0.7264		1.80	2.00	-9.8	30.0
Carbon tetrachloride	Ave	0.7733	0.9119		2.36	2.00	17.9	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1531		1.63	2.00	-18.3	50.0
Thiophene	Ave	0.5002	0.4456		1.78	2.00	-10.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.8797		1.42	2.00	-29.2	30.0
Heptane	Ave	0.3047	0.2492		1.64	2.00	-18.2	30.0
1,2-Dichloropropane	Ave	0.2586	0.2130		1.65	2.00	-17.6	30.0
Trichloroethene	Ave	0.3975	0.3801		1.91	2.00	-4.4	30.0
Dibromomethane	Ave	0.3799	0.3712		1.95	2.00	-2.3	30.0
Bromodichloromethane	Ave	0.7571	0.7521		1.99	2.00	-0.7	30.0
1,4-Dioxane	Ave	0.1068	0.0798		1.49	2.00	-25.3	30.0
Methyl methacrylate	Ave	0.3033	0.2134		1.41	2.00	-29.6	30.0
Methylcyclohexane	Ave	0.5694	0.4694		1.65	2.00	-17.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.2728		1.15	2.00	-42.5*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4277		1.87	2.00	-6.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5023		1.86	2.00	-7.0	30.0
Toluene	Ave	1.072	1.046		1.95	2.00	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2953		1.87	2.00	-6.4	30.0
2-Methylthiophene	Ave	0.9307	0.9342		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9569		2.04	2.00	2.1	50.0
2-Hexanone	Ave	0.2529	0.1779		1.41	2.00	-29.7	30.0
Octane	Ave	0.3821	0.3585		1.88	2.00	-6.2	30.0
Dibromochloromethane	Ave	0.7144	0.8349		2.34	2.00	16.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5798		2.06	2.00	3.0	30.0
Tetrachloroethene	Ave	0.4564	0.4642		2.03	2.00	1.7	30.0
Chlorobenzene	Ave	0.8545	0.9287		2.17	2.00	8.7	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5558		1.35	2.00	-32.3	50.0
Ethylbenzene	Ave	1.374	1.424		2.07	2.00	3.6	30.0
2-Ethylthiophene	Ave	1.101	1.215		2.21	2.00	10.4	50.0
m-Xylene & p-Xylene	Ave	1.080	1.217		4.51	4.00	12.7	30.0
Nonane	Ave	0.5994	0.4769		1.59	2.00	-20.4	30.0
Bromoform	Ave	0.6422	0.8848		2.76	2.00	37.8*	30.0
Styrene	Ave	0.7475	0.8625		2.31	2.00	15.4	30.0
o-Xylene	Ave	1.168	1.254		2.15	2.00	7.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7002		2.04	2.00	1.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2871		2.29	2.00	14.7	30.0
Isopropylbenzene	Ave	1.542	1.765		2.29	2.00	14.4	30.0
Propylbenzene	Ave	0.4031	0.4486		2.23	2.00	11.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4199		2.19	2.00	9.3	30.0
4-Ethyltoluene	Ave	1.477	1.707		2.31	2.00	15.5	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7792		2.33	2.00	16.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6896		2.50	2.00	24.8	30.0
Decane	Ave	0.6339	0.6033		1.90	2.00	-4.8	30.0
tert-Butylbenzene	Ave	1.348	1.585		2.35	2.00	17.6	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.532		2.50	2.00	24.8	30.0
sec-Butylbenzene	Ave	1.656	1.990		2.40	2.00	20.1	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.997		2.50	2.00	24.9	30.0
Benzyl chloride	Ave	1.010	1.209		2.40	2.00	19.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9690		2.47	2.00	23.4	30.0
4-Isopropyltoluene	Ave	1.399	1.755		2.51	2.00	25.4	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.275		2.45	2.00	22.4	50.0
Butylcyclohexane	Ave	0.9625	0.9946		2.07	2.00	3.3	50.0
Indane	Ave	1.073	1.285		2.40	2.00	19.8	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9595		2.52	2.00	26.2	30.0
Indene	Ave	1.019	1.279		2.51	2.00	25.6	50.0
Butylbenzene	Ave	1.239	1.562		2.52	2.00	26.0	30.0
Undecane	Ave	0.5595	0.6150		2.20	2.00	9.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.572		2.62	2.00	30.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.616		2.72	2.00	35.8	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.020		2.62	2.00	31.2	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.269		2.56	2.00	27.8	50.0
Dodecane	Ave	0.4200	0.3135		1.49	2.00	-25.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6318		2.49	2.00	24.4	30.0
Naphthalene	Ave	0.8890	1.095		2.46	2.00	23.2	30.0
Benzo(b)thiophene	Ave	0.6431	0.7023		2.18	2.00	9.2	50.0
Hexachlorobutadiene	Ave	0.6633	0.9739		2.94	2.00	46.8*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4458		2.35	2.00	17.6	30.0
2-Methylnaphthalene	Ave	0.0420	0.0519		15.5	12.5	23.6	50.0
1-Methylnaphthalene	Ave	0.0366	0.0465		15.9	12.5	27.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9104		4.16	4.00	3.9	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032414,TO155,,140-0000541-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	s
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 -	13.452	0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 -	14.142	0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

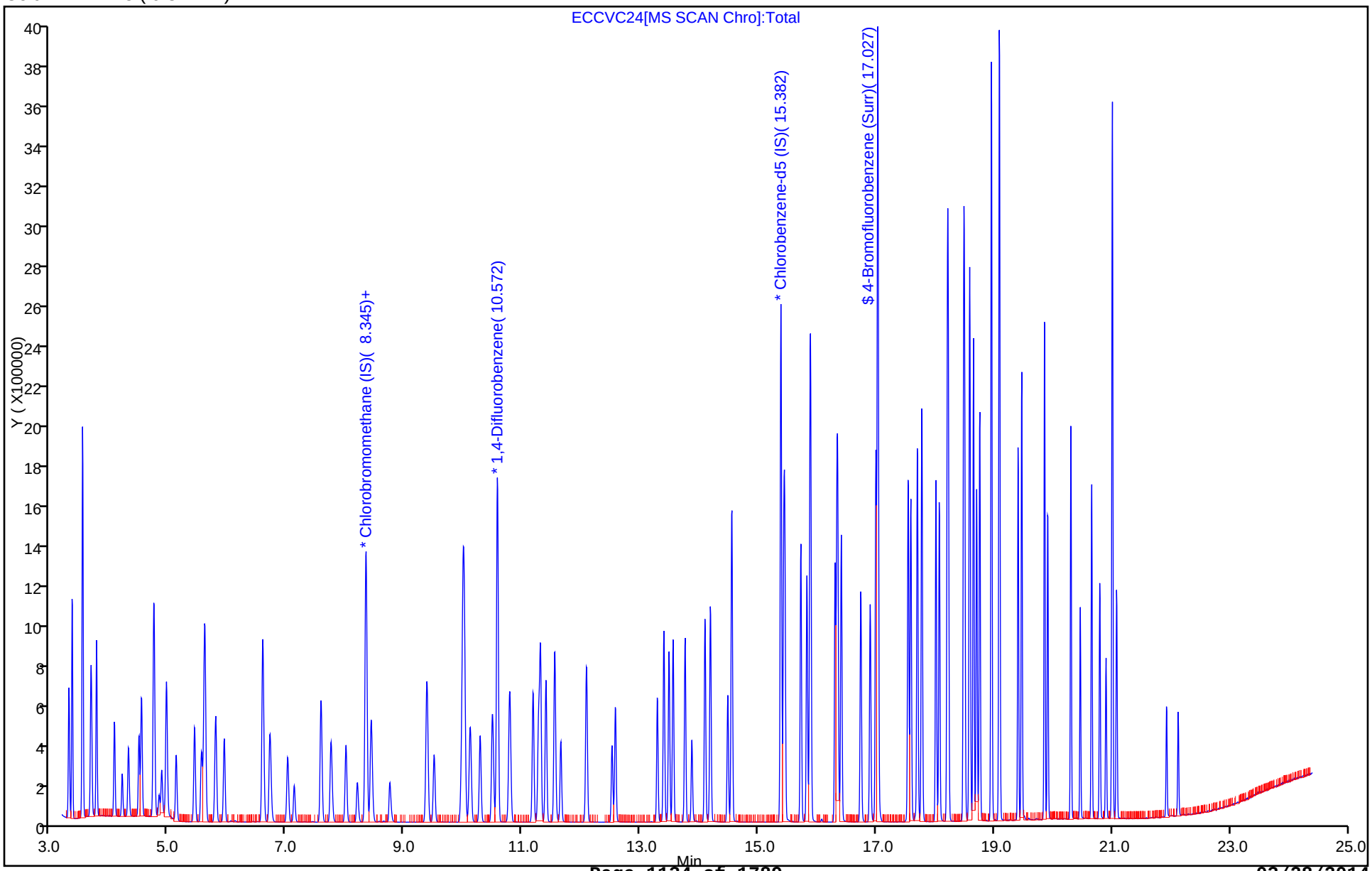
Report Date: 24-Mar-2014 13:17:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D

Injection Date:	24-Mar-2014 09:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096		1.44	2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo(b)thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCS/ICV,,3,,,
Misc. Info.: J031114I,TO15,,140-0000516-014
Operator ID: 7126 Instrument ID: MJ
Sublist:

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

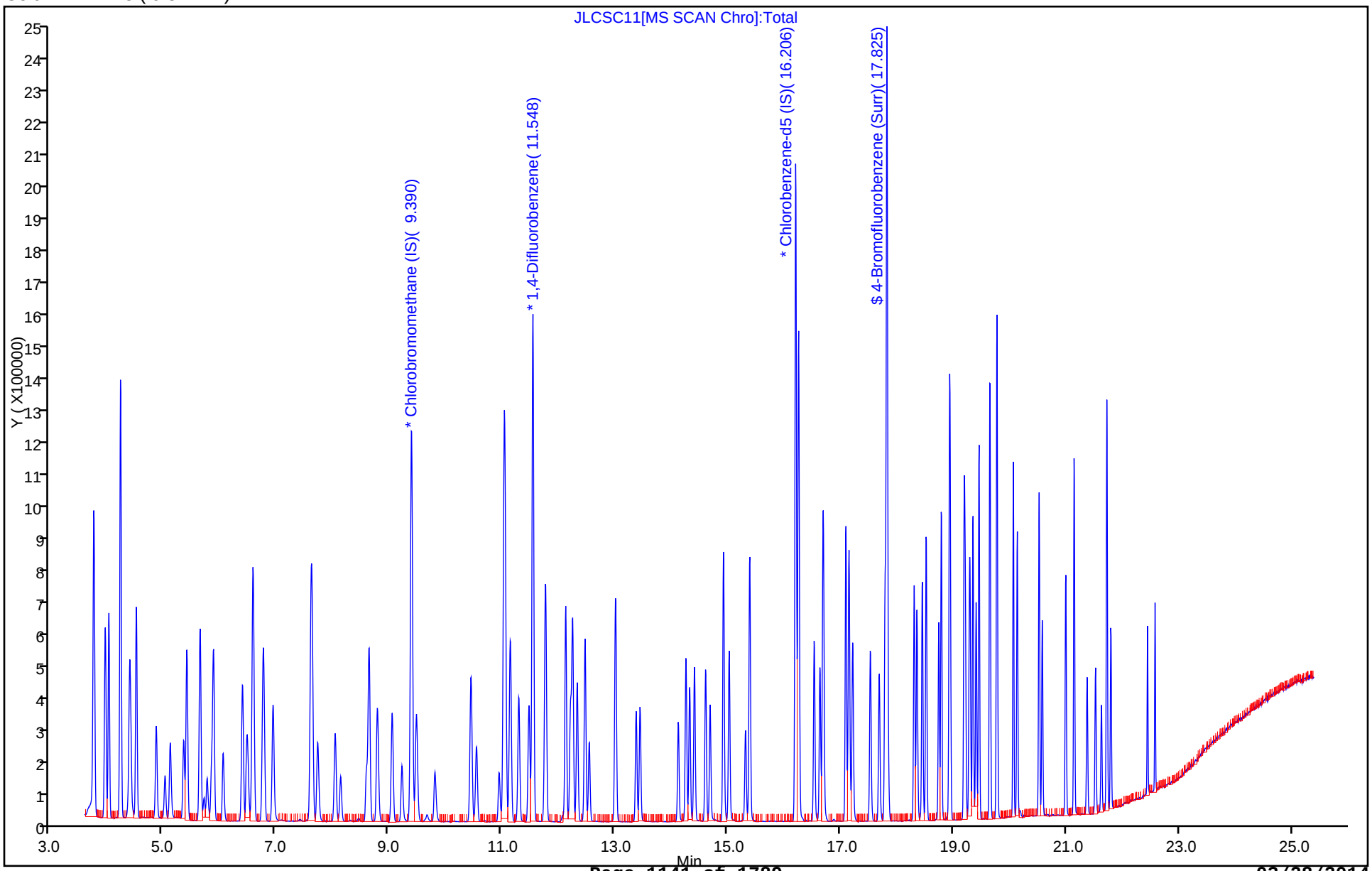
Report Date: 14-Mar-2014 13:55:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D

Injection Date:	11-Mar-2014 23:33:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ICV	Lab Sample ID:	ICV 140-949/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J032114,TO15,,140-0000540-002
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 -	8.695	0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 -	14.277	0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 -	14.973	0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

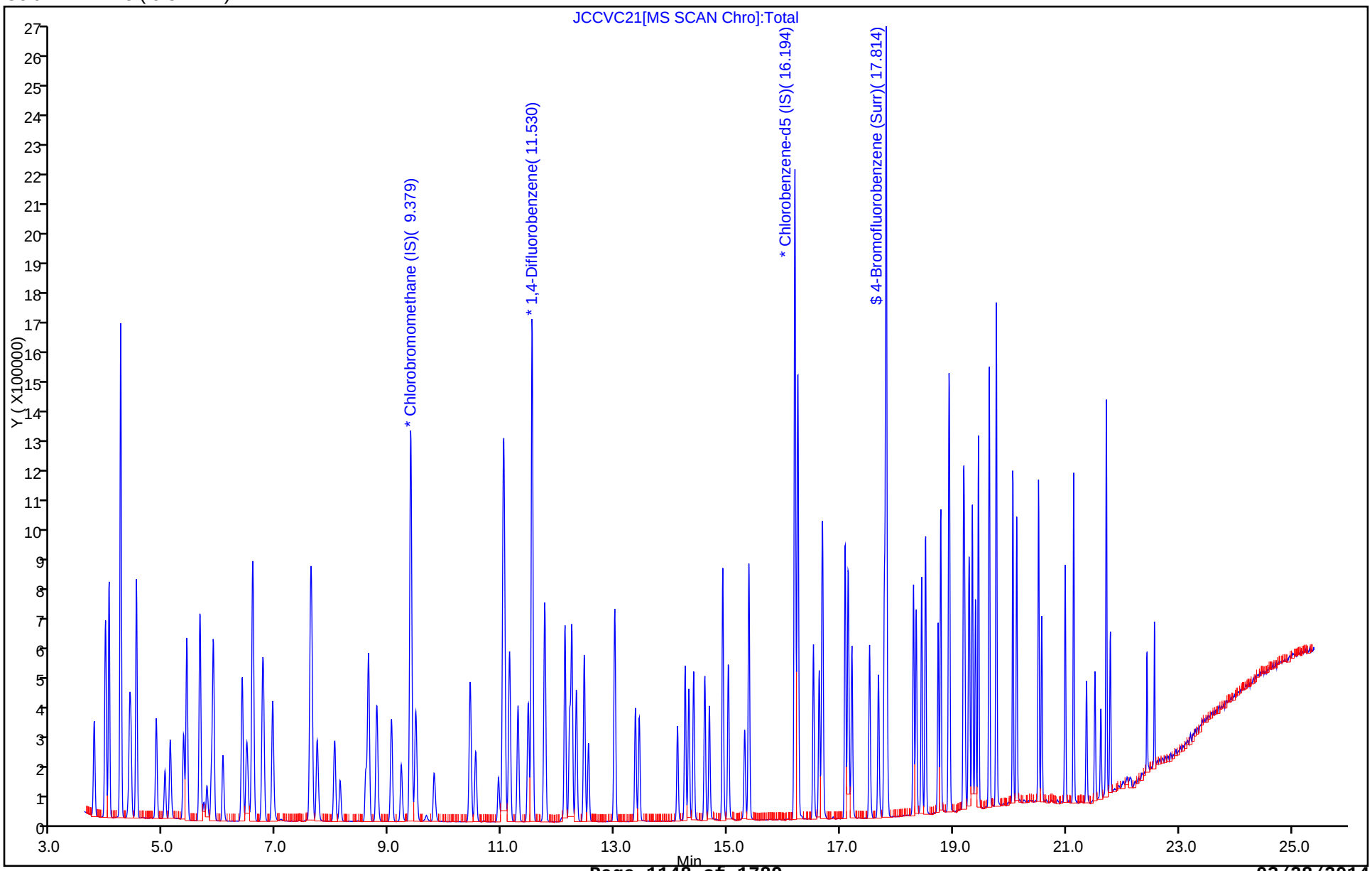
Report Date: 21-Mar-2014 14:37:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D

Injection Date:	21-Mar-2014 11:30:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jan-2014 13:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E012814I,BFB,140-0000390-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jan-2014 13:09:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	30-Jan-2014 11:32:37		

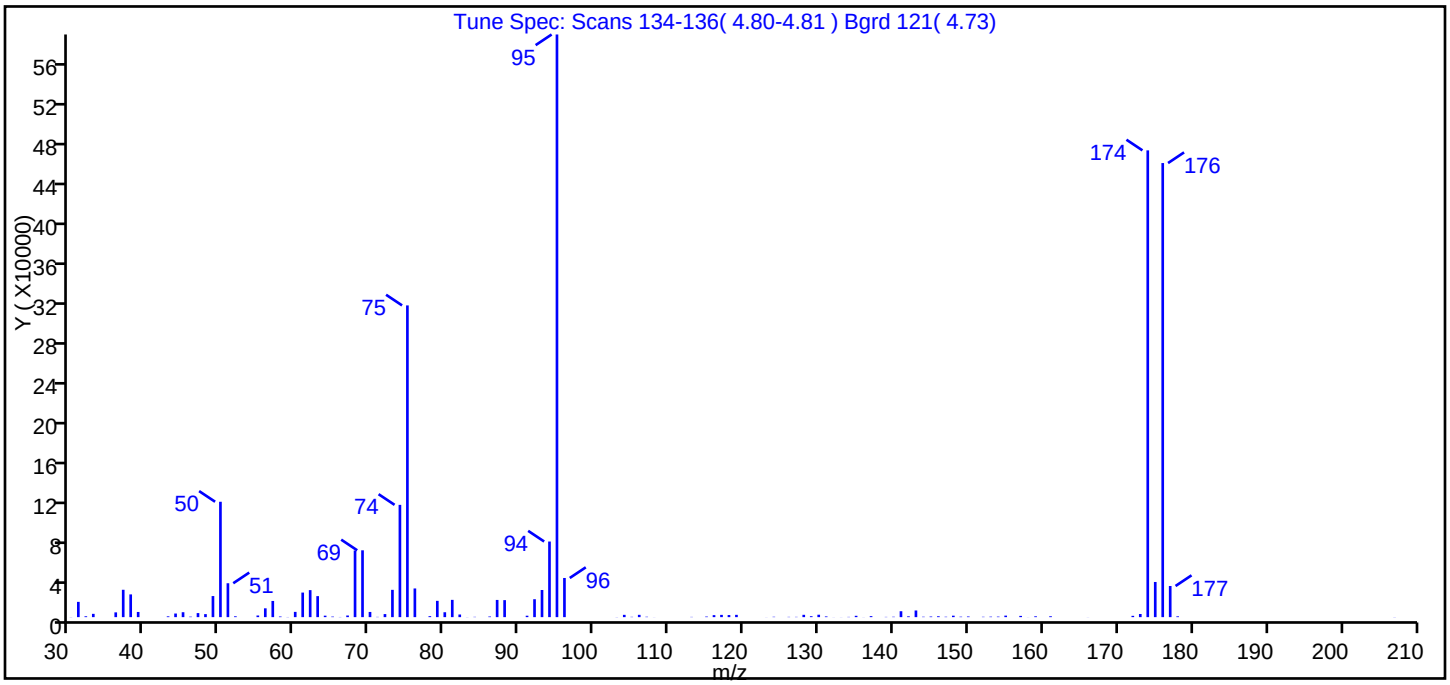
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

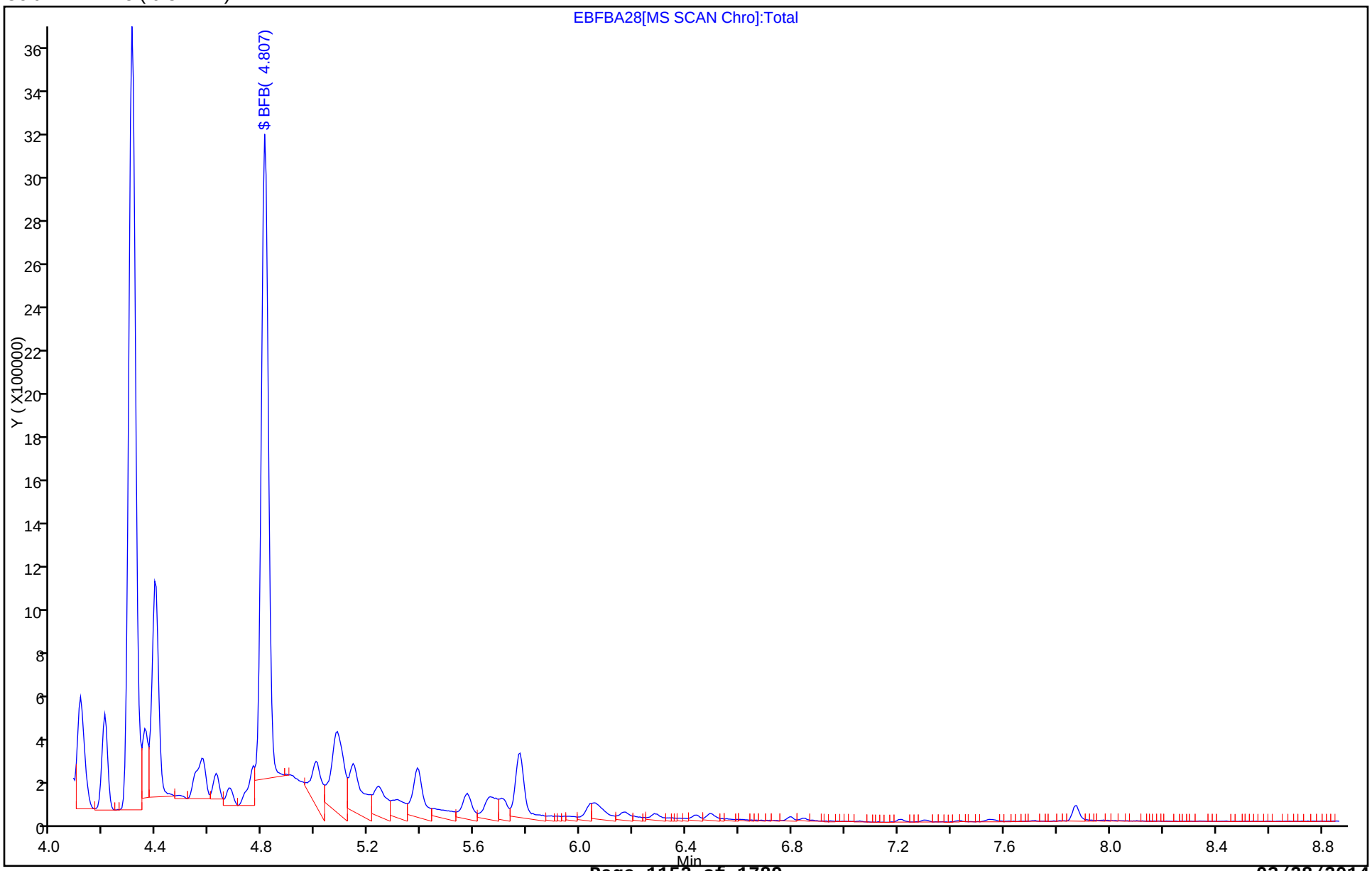
Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D

Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Mar-2014 13:39:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E031714,BFB,,140-0000525-001				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 10:44:37	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 10:44:37		

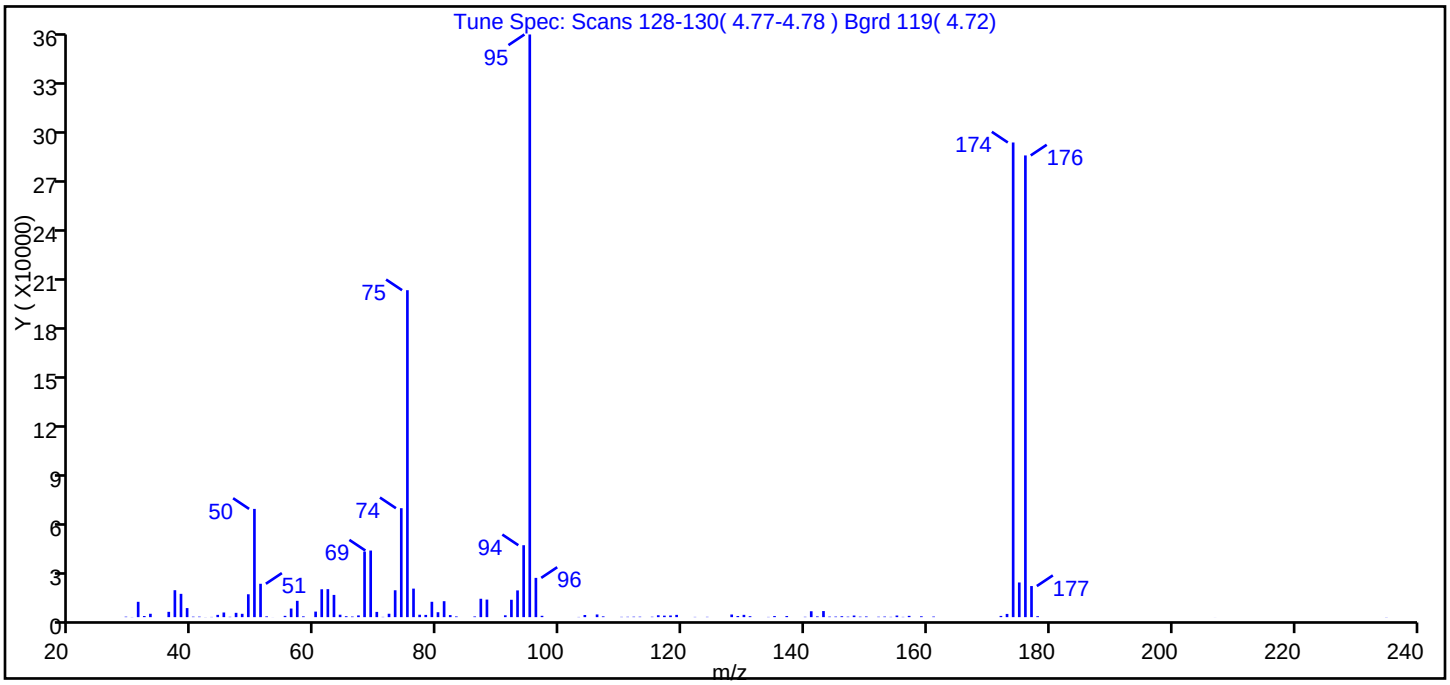
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.775	4.775	0.0	0	731051	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D
Injection Date: 17-Mar-2014 13:39:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	56.10
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	81.50
175	5.00 - 9.00% of mass 174	5.90 (7.30)
176	95.00 - 101.00% of mass 174	79.20 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D\ME_TO15.rslt\spectra.d
Injection Date: 17-Mar-2014 13:39:30
Spectrum: Tune Spec: Scans 128-130(4.77-4.78) Bgrd 119(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

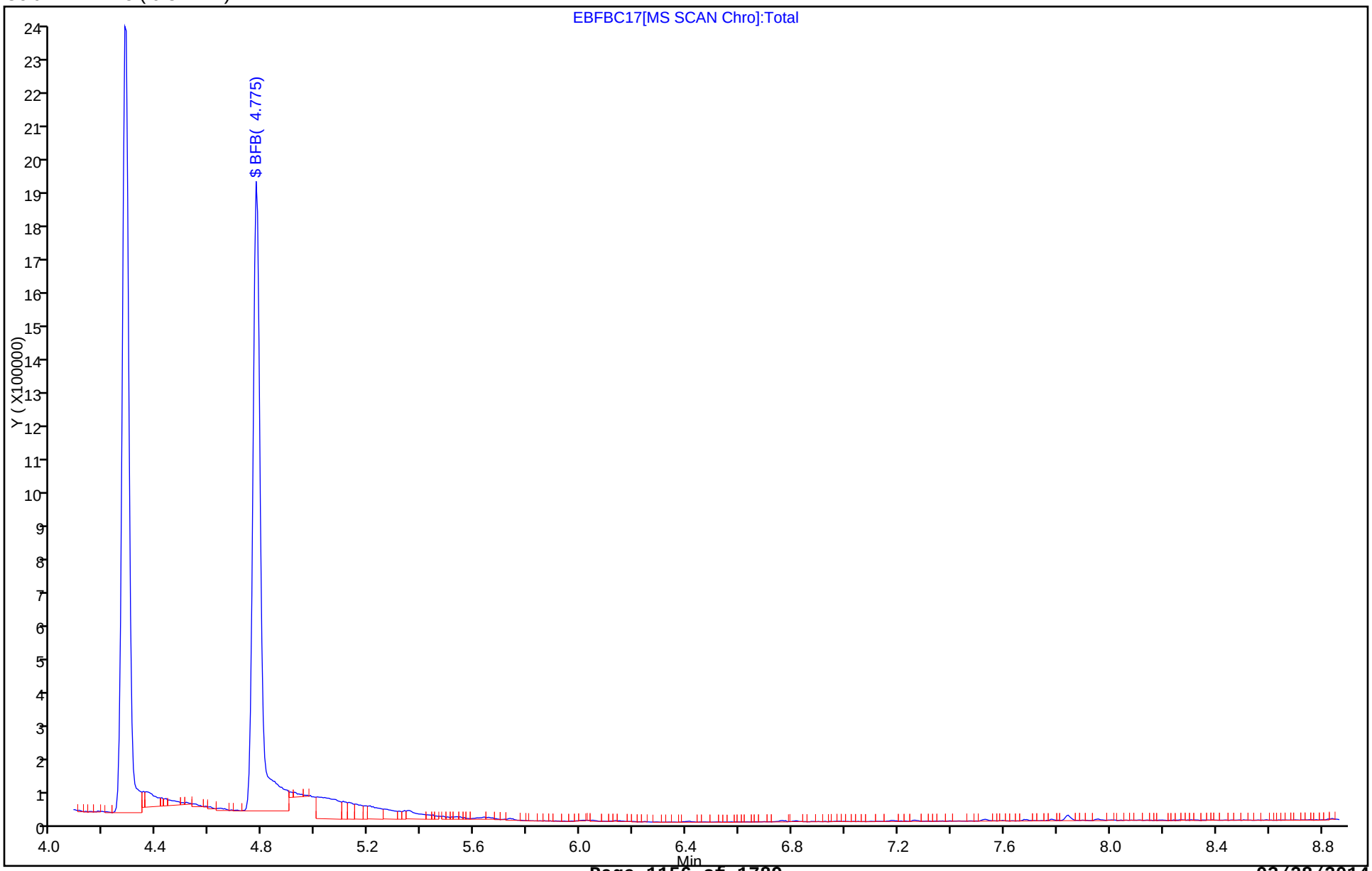
m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	288	61.00	17080	93.00	16384	141.00	3616
30.00	94	62.00	17152	94.00	44072	142.00	446
31.00	9393	63.00	13621	95.00	356992	143.00	3728
32.00	683	64.00	1487	96.00	24056	144.00	321
33.00	2068	65.00	566	97.00	825	145.00	341
36.00	3249	66.00	364	103.00	126	146.00	562
37.00	16504	67.00	1058	104.00	1314	147.00	294
38.00	14276	68.00	40192	106.00	1638	148.00	989
39.00	5550	69.00	40800	107.00	476	149.00	297
40.00	296	70.00	3218	110.00	179	150.00	416
41.00	308	71.00	155	111.00	217	152.00	252
42.00	63	72.00	2083	112.00	276	153.00	352
43.00	132	73.00	16464	113.00	274	154.00	171
44.00	1392	74.00	66744	115.00	246	155.00	984
45.00	2846	75.00	200320	116.00	1166	156.00	163
46.00	208	76.00	17480	117.00	918	157.00	790
47.00	2645	77.00	1474	118.00	1008	159.00	515
48.00	2044	78.00	1373	119.00	1387	161.00	357
49.00	14019	79.00	9410	122.00	150	172.00	756
50.00	66320	80.00	3013	124.00	185	173.00	1974
51.00	20448	81.00	9771	128.00	1613	174.00	290816
52.00	473	82.00	1271	129.00	687	175.00	21240
53.00	32	83.00	427	130.00	1407	176.00	282880
55.00	799	86.00	426	131.00	572	177.00	19048
56.00	5273	87.00	11266	134.00	139	178.00	569
57.00	9999	88.00	10762	135.00	664	207.00	25
58.00	471	91.00	1125	137.00	677	235.00	89
60.00	3399	92.00	10647	140.00	213		

Report Date: 18-Mar-2014 10:44:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140314-525.b\EBFBC17.D				
Injection Date:	17-Mar-2014 13:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EBFBC20.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-Mar-2014 12:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E032014,BFB,,140-0000533-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	20-Mar-2014 15:19:00	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK001				
First Level Reviewer: tajh		Date:	20-Mar-2014 15:19:00		

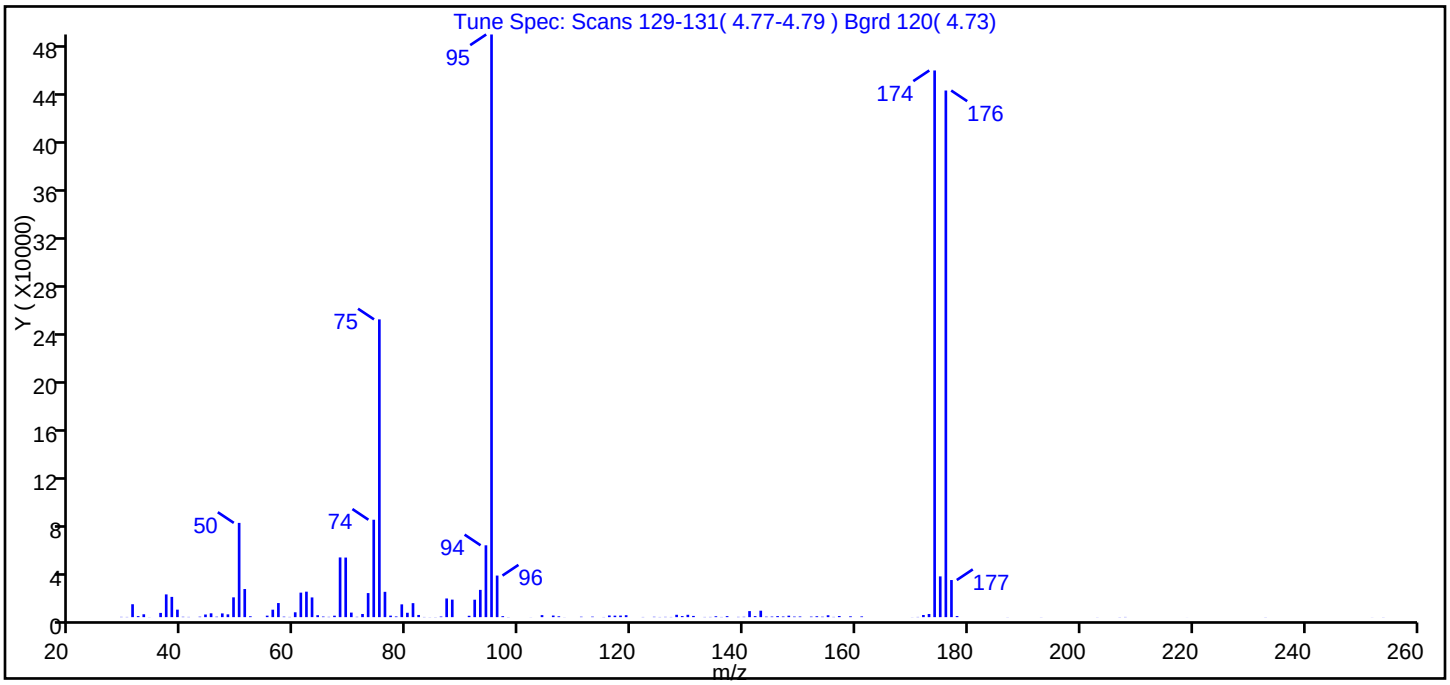
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.780	4.780	0.0	0	1013996	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EBFBC20.D
Injection Date: 20-Mar-2014 12:40:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.20
75	30.00 - 60.00% of mass 95	51.10
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.50 (0.60)
174	50.00 - 120.00% of mass 95	93.80
175	5.00 - 9.00% of mass 174	7.00 (7.50)
176	95.00 - 101.00% of mass 174	90.40 (96.30)
177	5.00 - 9.00% of mass 176	6.40 (7.00)

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EBFBC20.D\ME_TO15.rslt\spectra.d
Injection Date: 20-Mar-2014 12:40:30
Spectrum: Tune Spec: Scans 129-131(4.77-4.79) Bgrd 120(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 128

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	218	65.00	479	102.00	67	145.00	483
30.00	169	66.00	248	104.00	1667	146.00	855
31.00	10673	67.00	1204	106.00	1331	147.00	531
32.00	822	68.00	49368	107.00	693	148.00	1204
33.00	2370	69.00	49264	108.00	69	149.00	472
34.00	75	70.00	3763	111.00	352	150.00	552
36.00	3503	71.00	271	113.00	415	152.00	454
37.00	18808	72.00	2615	115.00	134	153.00	743
38.00	16744	73.00	19904	116.00	1375	154.00	354
39.00	6204	74.00	80544	117.00	1240	155.00	1553
40.00	295	75.00	246208	118.00	1296	156.00	200
41.00	187	76.00	20936	119.00	1598	157.00	915
43.00	368	77.00	1249	122.00	152	159.00	673
44.00	2184	78.00	563	124.00	292	161.00	599
45.00	3173	79.00	10576	125.00	148	170.00	73
46.00	364	80.00	3612	126.00	228	171.00	173
47.00	3088	81.00	11568	127.00	154	172.00	1783
48.00	2313	82.00	1803	128.00	1950	173.00	2582
49.00	16370	83.00	154	129.00	874	174.00	452032
50.00	77936	84.00	90	130.00	1944	175.00	33704
51.00	23248	85.00	110	131.00	1007	176.00	435456
52.00	700	86.00	510	133.00	167	177.00	30688
55.00	1235	87.00	15442	134.00	183	178.00	870
56.00	6172	88.00	14493	135.00	736	187.00	72
57.00	11653	91.00	1125	136.00	152	193.00	76
58.00	394	92.00	14424	137.00	842	203.00	70
59.00	187	93.00	22552	139.00	218	207.00	109
60.00	4010	94.00	59408	140.00	299	208.00	163
61.00	20272	95.00	481792	141.00	5001	219.00	28
62.00	21072	96.00	34384	142.00	872	233.00	88
63.00	16306	97.00	813	143.00	5330	252.00	54
64.00	1598	98.00	114	144.00	406	254.00	78

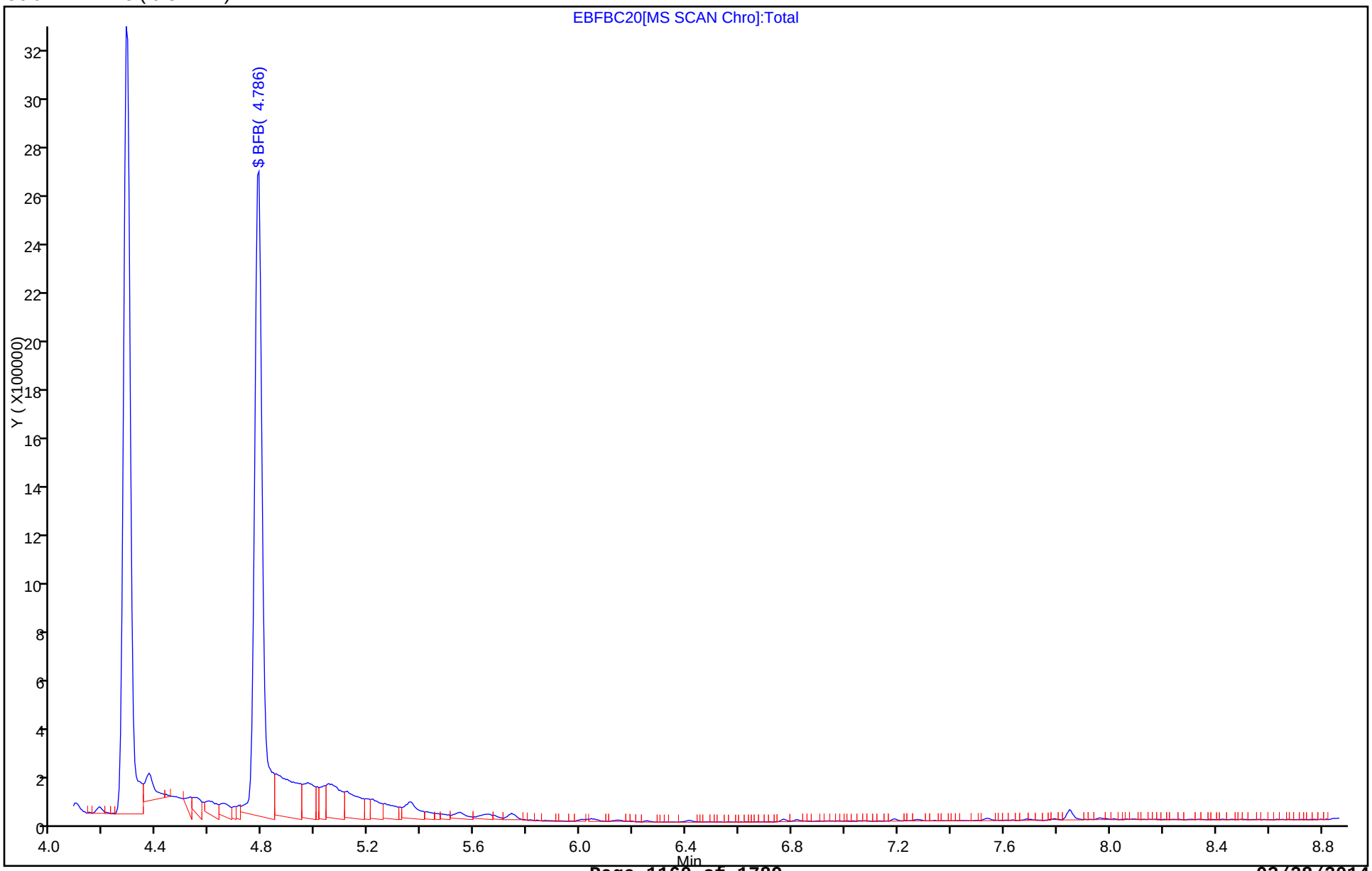
Report Date: 20-Mar-2014 15:19:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EBFBC20.D

Injection Date:	20-Mar-2014 12:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Mar-2014 08:44:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E032414,BFB,,140-0000541-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 13:17:14	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 13:17:14		

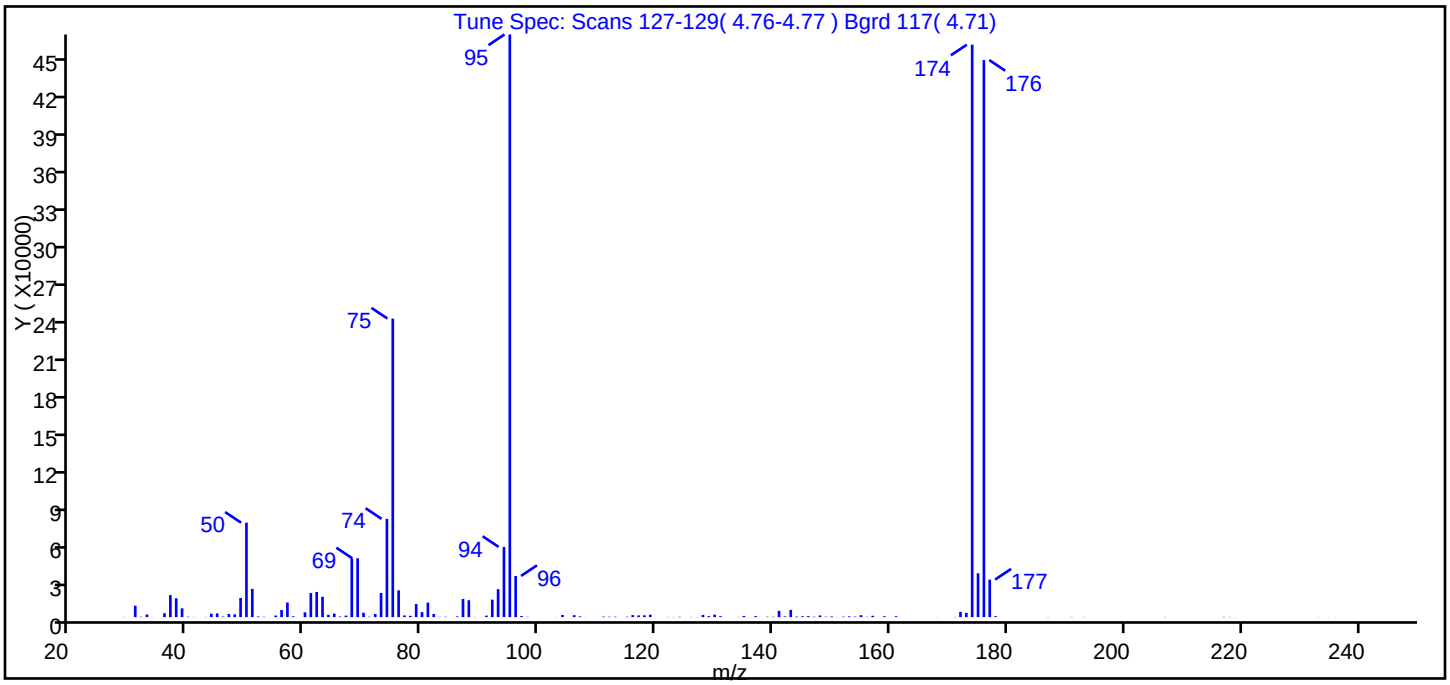
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.769	4.769	0.0	0	1000012	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D
Injection Date: 24-Mar-2014 08:44:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.20
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.70 (0.70)
174	50.00 - 120.00% of mass 95	98.30
175	5.00 - 9.00% of mass 174	7.50 (7.70)
176	95.00 - 101.00% of mass 174	95.60 (97.30)
177	5.00 - 9.00% of mass 176	6.40 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:44:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	148	67.00	1217	107.00	611	148.00	1353
31.00	9093	68.00	46480	108.00	102	149.00	349
32.00	314	69.00	46664	110.00	23	150.00	549
33.00	2086	70.00	3530	111.00	435	151.00	85
34.00	88	71.00	302	112.00	329	152.00	409
36.00	3115	72.00	2487	113.00	402	153.00	621
37.00	17504	73.00	19184	115.00	340	154.00	428
38.00	14977	74.00	77976	116.00	1616	155.00	1531
39.00	7011	75.00	236928	117.00	1363	156.00	243
40.00	362	76.00	21256	118.00	1443	157.00	1077
41.00	151	77.00	1328	119.00	1953	159.00	726
42.00	40	78.00	1057	122.00	188	161.00	712
43.00	164	79.00	10420	123.00	146	168.00	72
44.00	2714	80.00	4014	124.00	279	171.00	154
45.00	2946	81.00	11506	126.00	184	172.00	4200
46.00	465	82.00	2507	127.00	143	173.00	3395
47.00	2495	83.00	235	128.00	1748	174.00	454272
48.00	2189	84.00	316	129.00	795	175.00	34808
49.00	15251	86.00	600	130.00	1952	176.00	442048
50.00	74928	87.00	14443	131.00	741	177.00	29784
51.00	22416	88.00	13410	133.00	22	178.00	775
52.00	533	89.00	163	134.00	155	187.00	142
53.00	277	90.00	74	135.00	963	191.00	183
55.00	1284	91.00	1232	136.00	88	193.00	153
56.00	5694	92.00	13882	137.00	824	207.00	137
57.00	11637	93.00	22224	139.00	323	217.00	255
58.00	670	94.00	55712	140.00	293	218.00	164
60.00	3801	95.00	462336	141.00	4991	219.00	38
61.00	19104	96.00	32672	142.00	592	220.00	19
62.00	19976	97.00	871	143.00	5702	233.00	112
63.00	16108	98.00	265	144.00	472	235.00	92
64.00	1853	103.00	82	145.00	697	236.00	66
65.00	2801	104.00	1707	146.00	838	250.00	37

Report Date: 24-Mar-2014 13:17:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24
Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:44:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	453	106.00	1576	147.00	343		

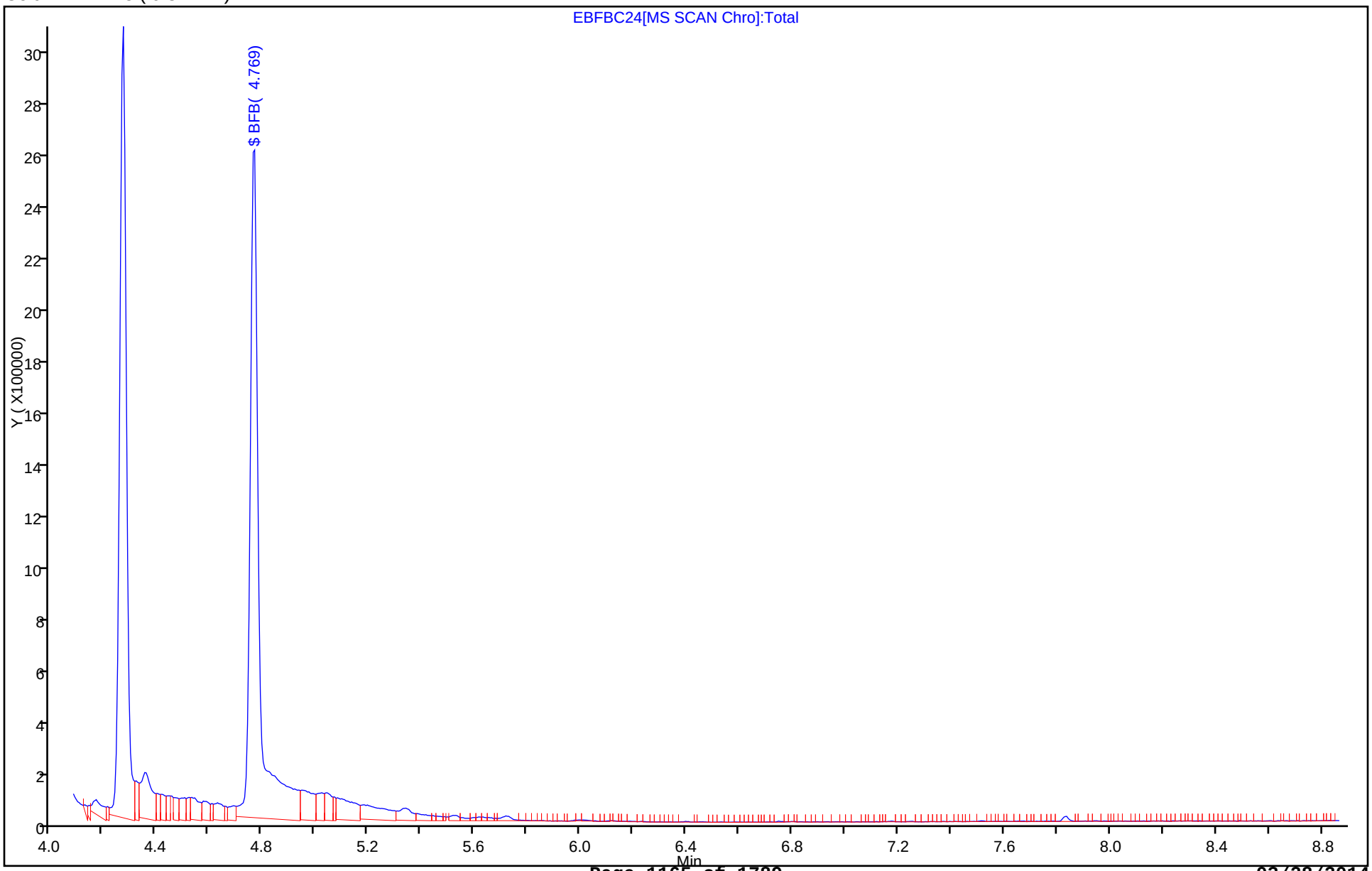
Report Date: 24-Mar-2014 13:17:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D

Injection Date:	24-Mar-2014 08:44:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Mar-2014 12:12:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	J031114I,BFB,,,,140-0000516-001				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	14-Mar-2014 13:55:12	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				

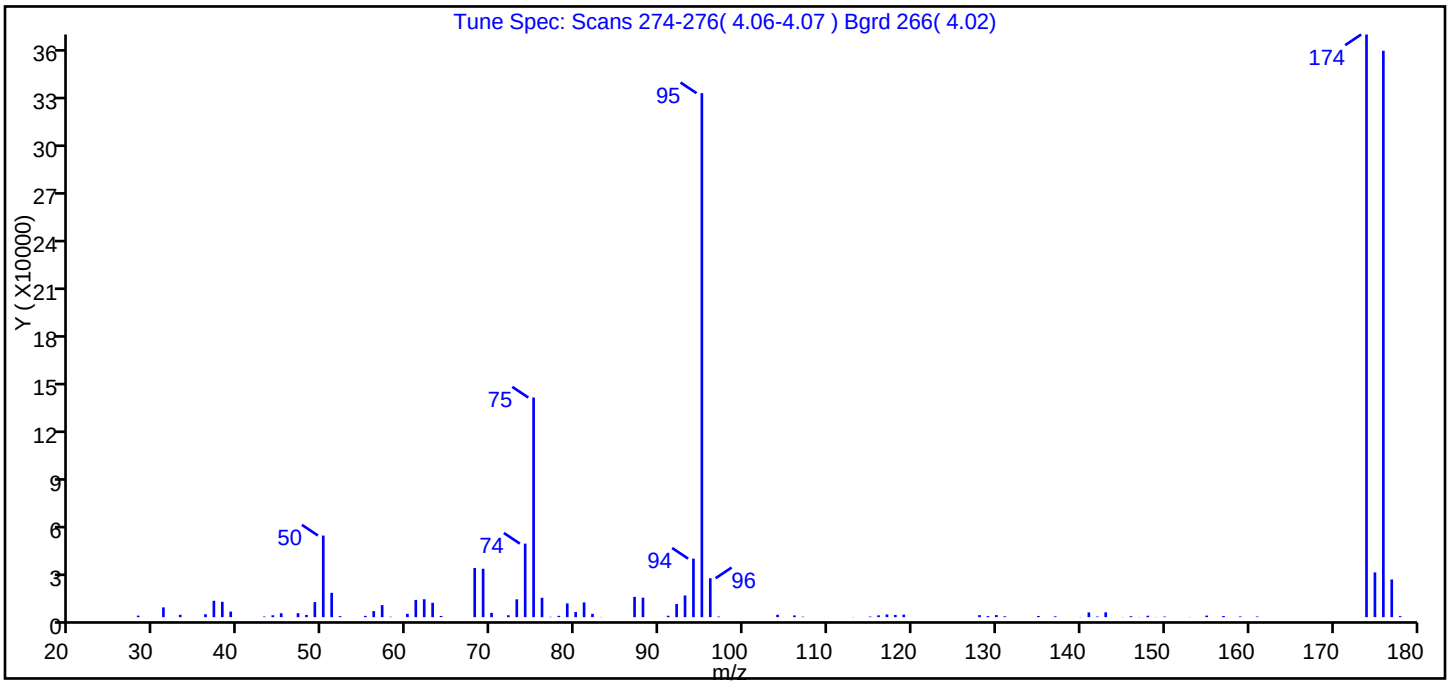
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
Injection Date: 11-Mar-2014 12:12:30 Instrument ID: MJ
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D\MJ_TO15.rslt\spectra.d
Injection Date: 11-Mar-2014 12:12:30
Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

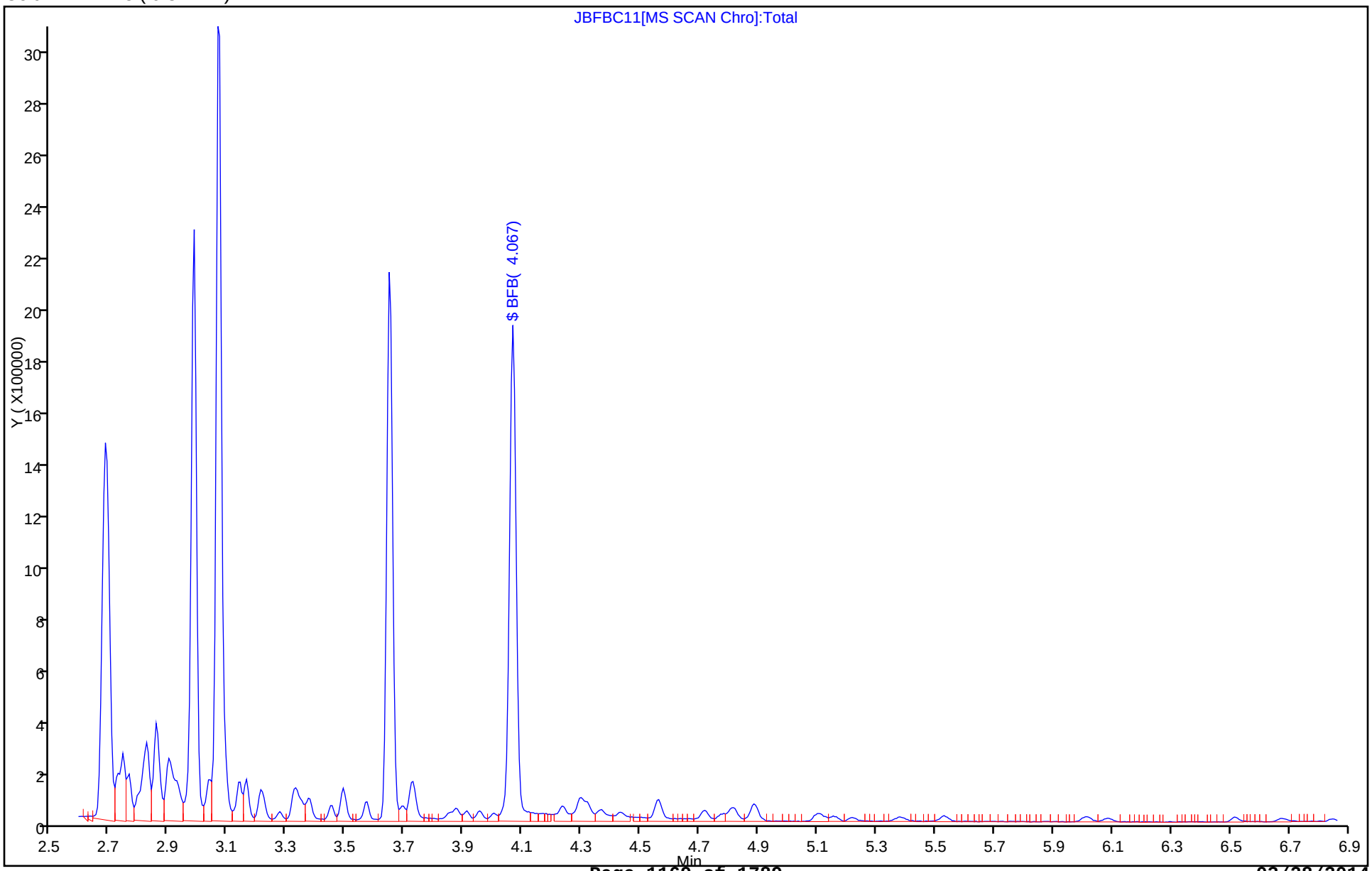
Report Date: 14-Mar-2014 13:55:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D

Injection Date:	11-Mar-2014 12:12:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-Mar-2014 11:03:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,bfb				
Misc. Info.:	J032114,BFB,,140-0000540-001				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Mar-2014 14:31:30	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	21-Mar-2014 14:31:29		

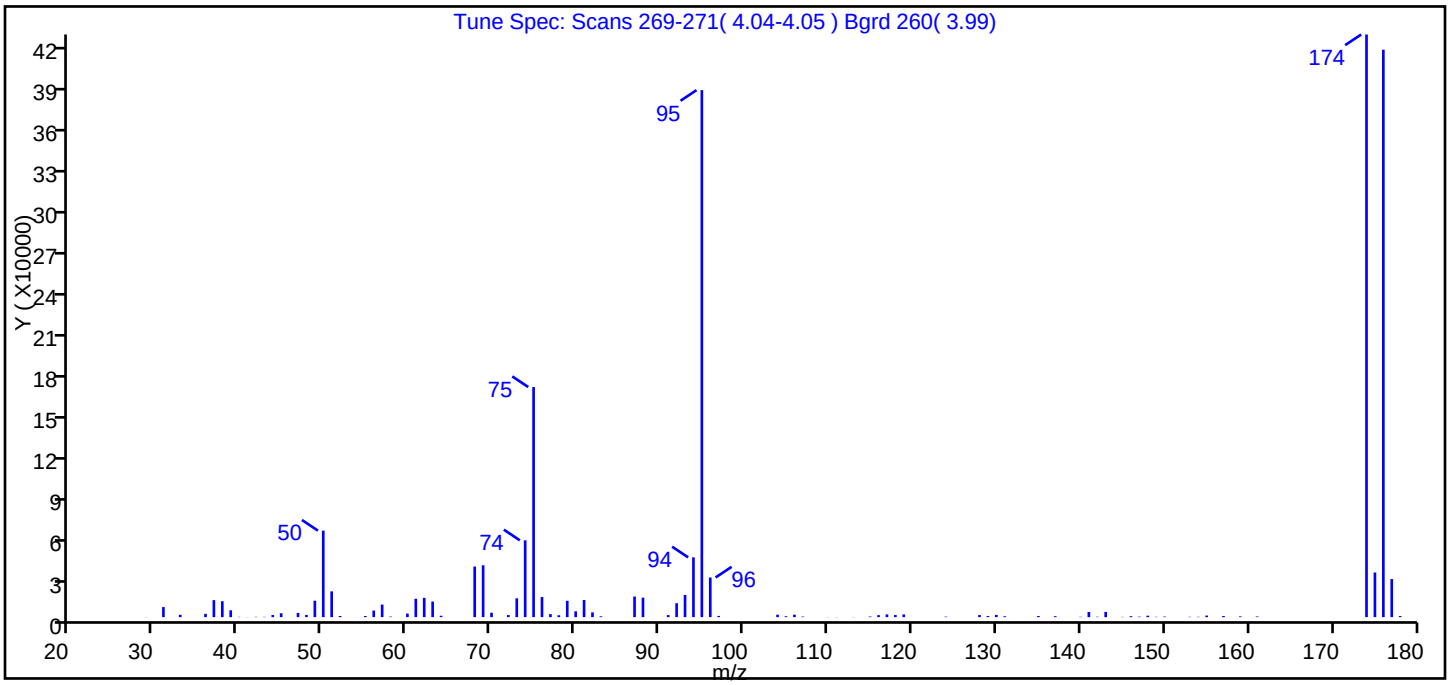
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.041	4.041	0.0	0	652867	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
Injection Date: 21-Mar-2014 11:03:30 Instrument ID: MJ
Lims ID: bfb
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.40
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.60
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	107.70 (97.40)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D\MJ_TO15.rslt\spectra.d
Injection Date: 21-Mar-2014 11:03:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 260(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	104	60.00	2612	93.00	16239	140.00	255
31.00	7367	61.00	13435	94.00	43744	141.00	3757
33.00	1710	62.00	14091	95.00	385536	142.00	306
36.00	2425	63.00	11430	96.00	29008	143.00	3831
37.00	12450	64.00	1027	97.00	891	145.00	209
38.00	11645	68.00	37008	104.00	1777	146.00	704
39.00	5013	69.00	37944	105.00	666	147.00	359
40.00	212	70.00	3227	106.00	1795	148.00	1060
41.00	93	72.00	1550	107.00	431	149.00	240
42.00	230	73.00	13785	110.00	118	150.00	434
43.00	229	74.00	56192	111.00	114	153.00	266
44.00	1564	75.00	168320	113.00	117	154.00	255
45.00	2828	76.00	14713	115.00	480	155.00	1155
47.00	3090	77.00	2230	116.00	1472	157.00	857
48.00	1619	78.00	1379	117.00	2020	159.00	557
49.00	12011	79.00	11937	118.00	1552	161.00	485
50.00	63280	80.00	4253	119.00	1988	174.00	426240
51.00	18856	81.00	12542	124.00	367	175.00	32664
52.00	843	82.00	3463	128.00	1537	176.00	415104
54.00	43	83.00	600	129.00	808	177.00	27856
55.00	848	87.00	15073	130.00	1631	178.00	798
56.00	4820	88.00	14234	131.00	658		
57.00	9195	91.00	1521	135.00	833		
58.00	404	92.00	10199	137.00	711		

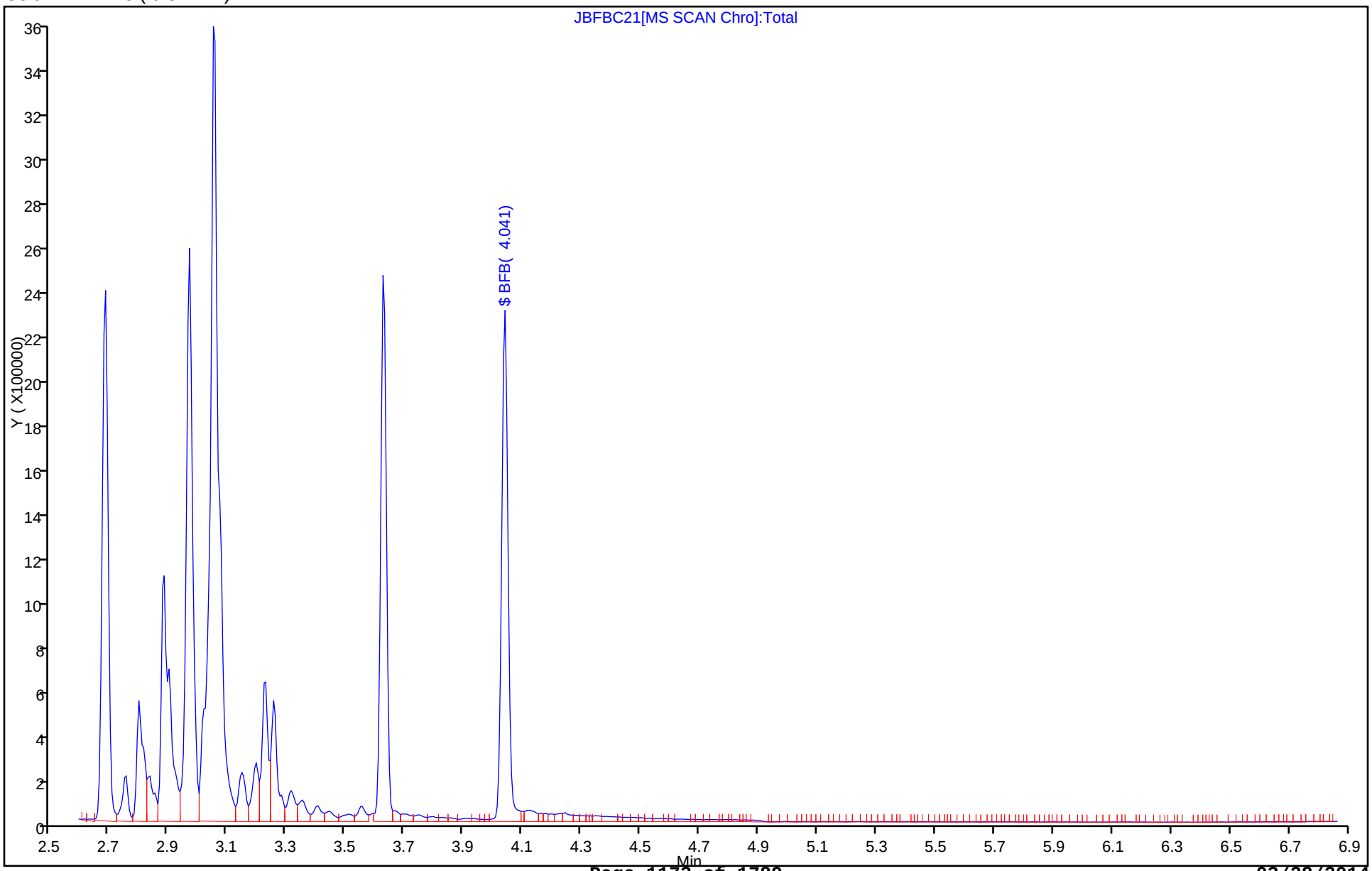
Report Date: 21-Mar-2014 14:31:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D

Injection Date:	21-Mar-2014 11:03:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-967/5

Matrix: Air Lab File ID: EMBC17.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/17/2014 17:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 17-Mar-2014 17:11:30 ALS Bottle#: 16 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB200
Misc. Info.: E031714,TO155,,140-0000525-005
Operator ID: 060487 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:59:04 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:59:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	78	189632	4.00	
*	2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	96	941923	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	92	834864	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	749693	4.10	

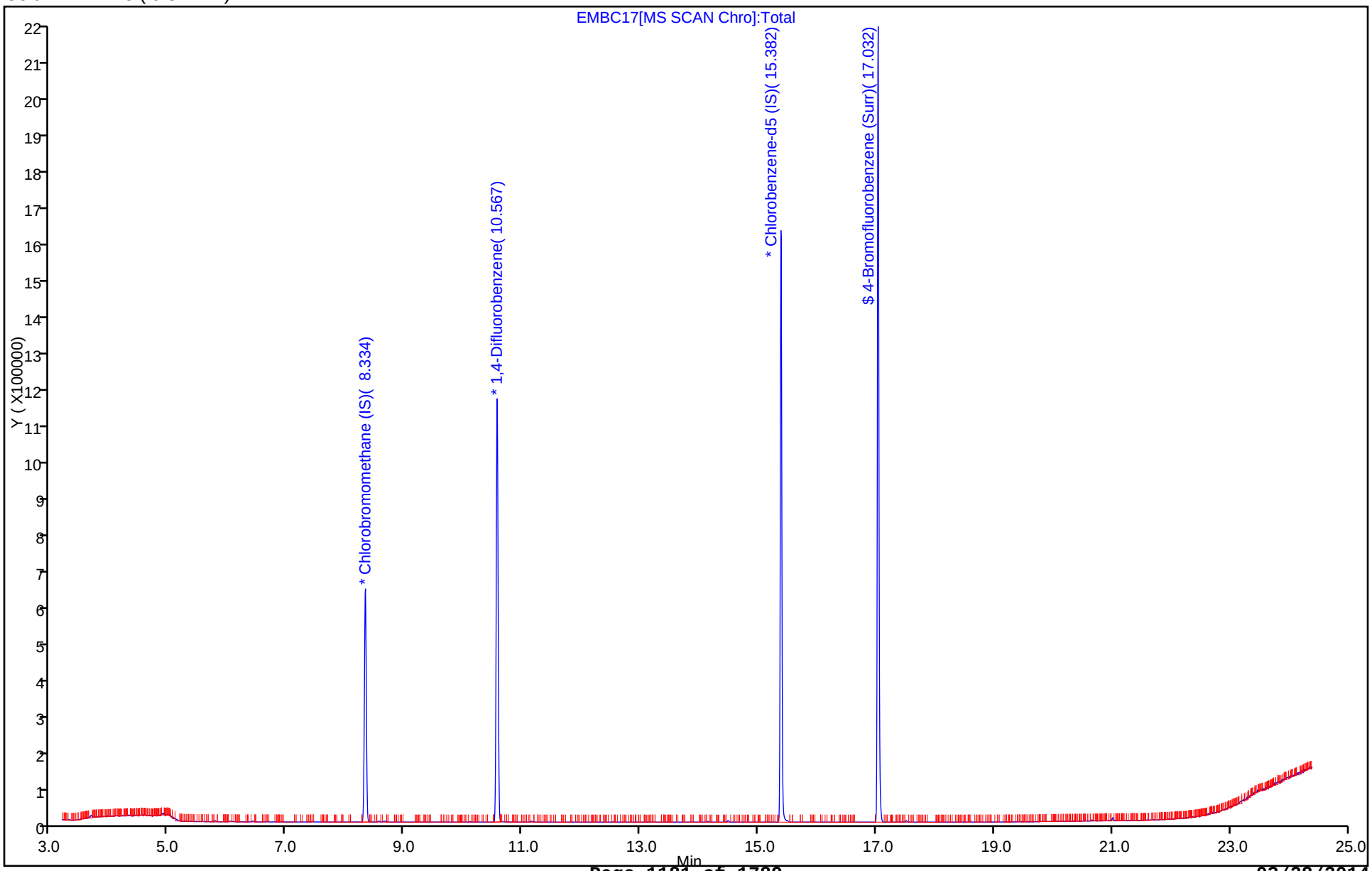
Report Date: 18-Mar-2014 11:59:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\EMBC17.D

Injection Date:	17-Mar-2014 17:11:30	Instrument ID:	ME	Operator ID:	060487
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-977/4

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\MB200mL.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	20-Mar-2014 15:46:30	ALS Bottle#:	16	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB200mL				
Misc. Info.:	E032014,TO155,,140-0000533-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Mar-2014 04:38:41	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	21-Mar-2014 07:26:54		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	315778	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1564167	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1386797	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1179729	3.88	
T 136 Methanol TIC	31	4.306	3.995	0.306	48	1960	0.0248	

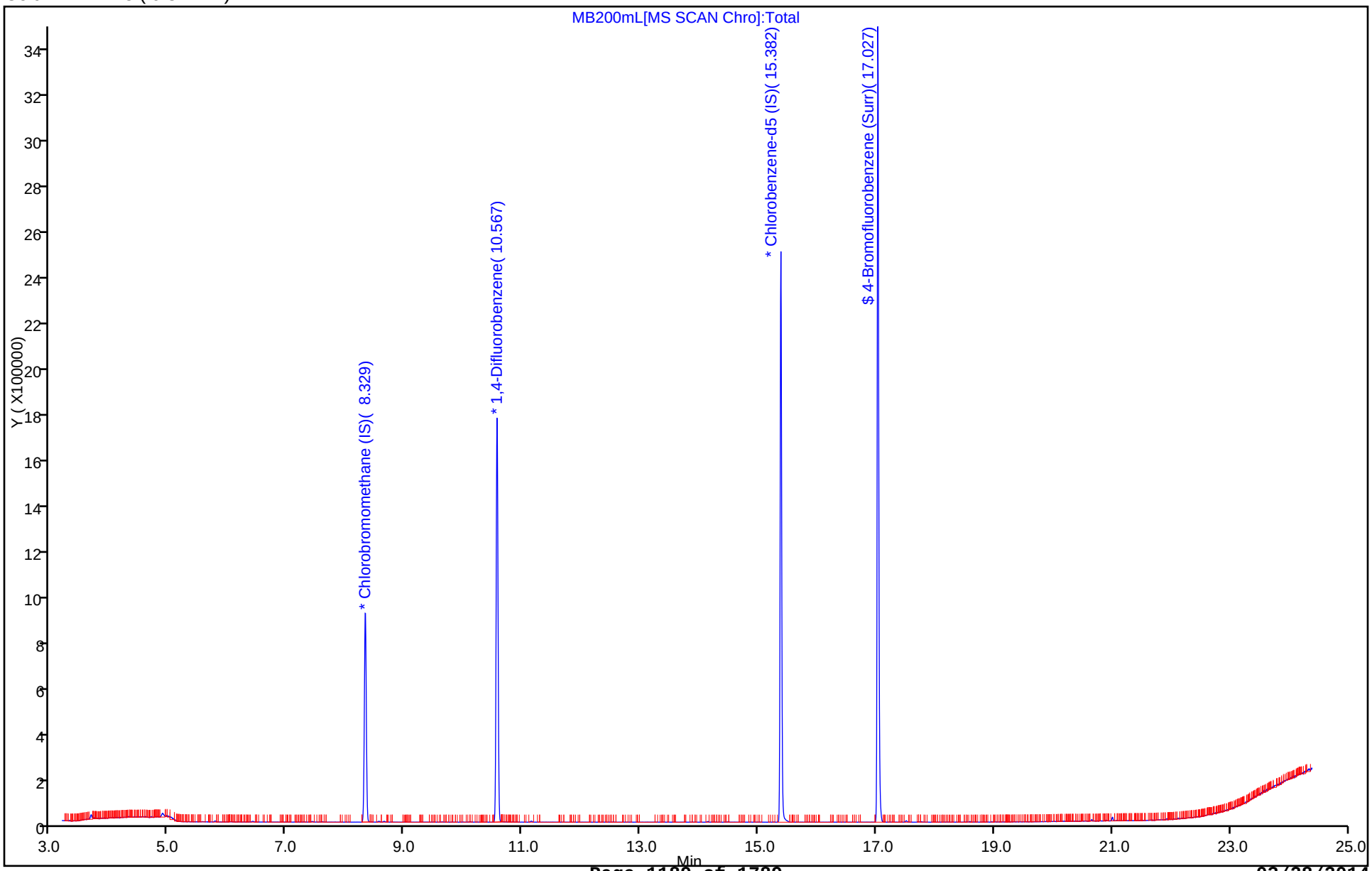
Report Date: 21-Mar-2014 07:26:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\MB200mL.D

Injection Date:	20-Mar-2014 15:46:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	mb			Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	21-Mar-2014 14:39:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	200ML BLANK				
Misc. Info.:	J032114,TO15,,140-0000540-005				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 08:37:56	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 08:37:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.379	-0.005	90	375868	4.00	
* 2 1,4-Difluorobenzene	114	11.525	11.530	-0.005	94	1755903	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.189	16.194	-0.005	87	1341257	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	887215	3.74	
140 Tert-amyl methyl ether	73	11.525	11.466	0.059	1	19915	NR	
T 136 Methanol TIC	31	4.381	4.396	-0.019	82	3059	0.0326	

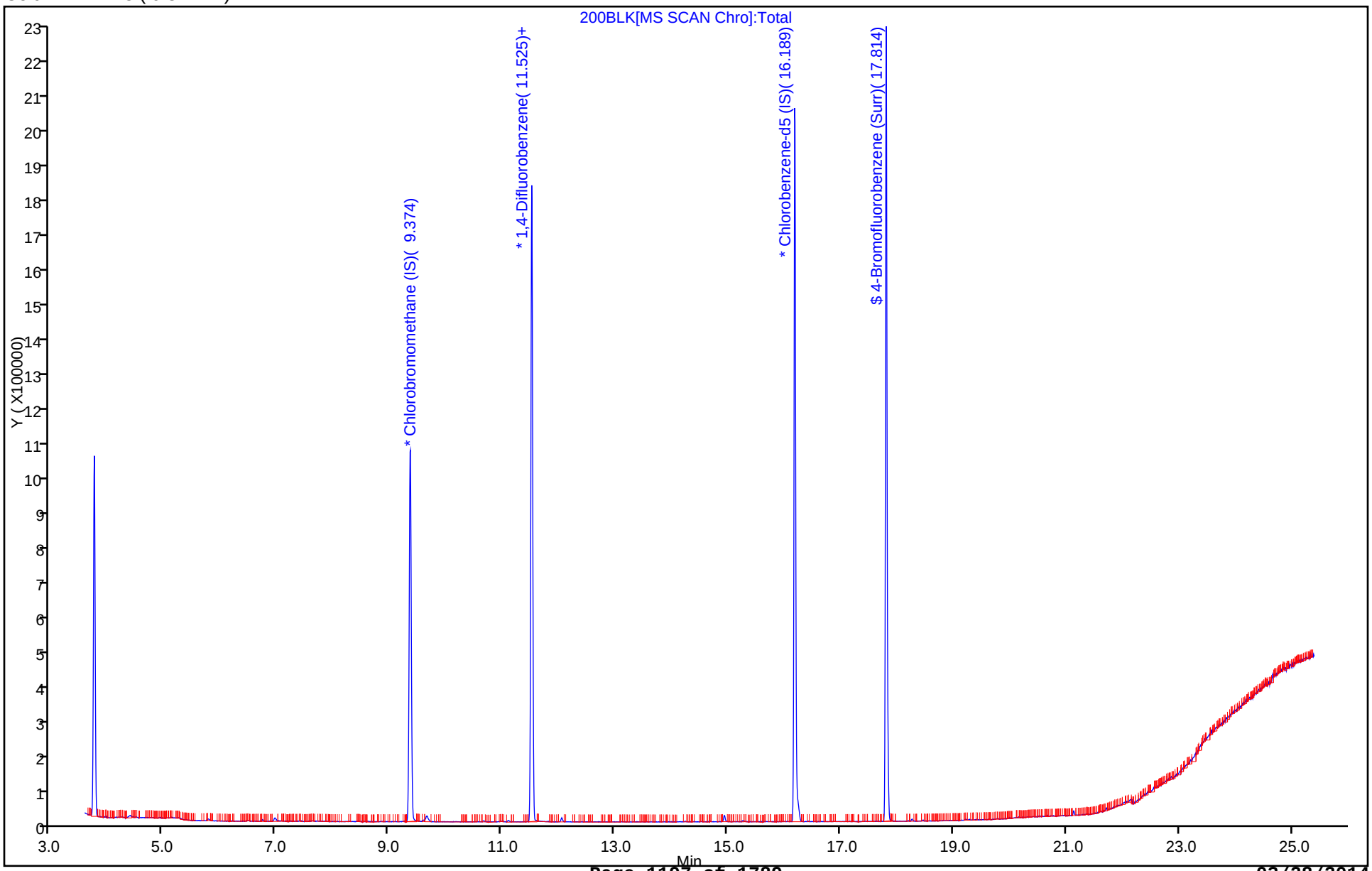
Report Date: 24-Mar-2014 08:37:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D

Injection Date:	21-Mar-2014 14:39:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d				
Lims ID:	MB				
Client ID:	10758				
Sample Type:	MB				
Inject. Date:	24-Mar-2014 11:45:30	ALS Bottle#:	2	Worklist Smp#:	1005
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10758				
Misc. Info.:	E032414,TO155,,140-0000541-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 13:17:14	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 13:18:16		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	303416	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1490673	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1270564	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1064787	3.83	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	2723	0.002669	
A 119 Toluene Range	1	13.387	13.344 -	13.452	0	550	0.000618	
A 120 C8 Range	1	14.091	14.056 -	14.142	0	764	0.000717	
T 136 Methanol TIC	31	4.312	3.997	0.312	77	1359	0.0179	

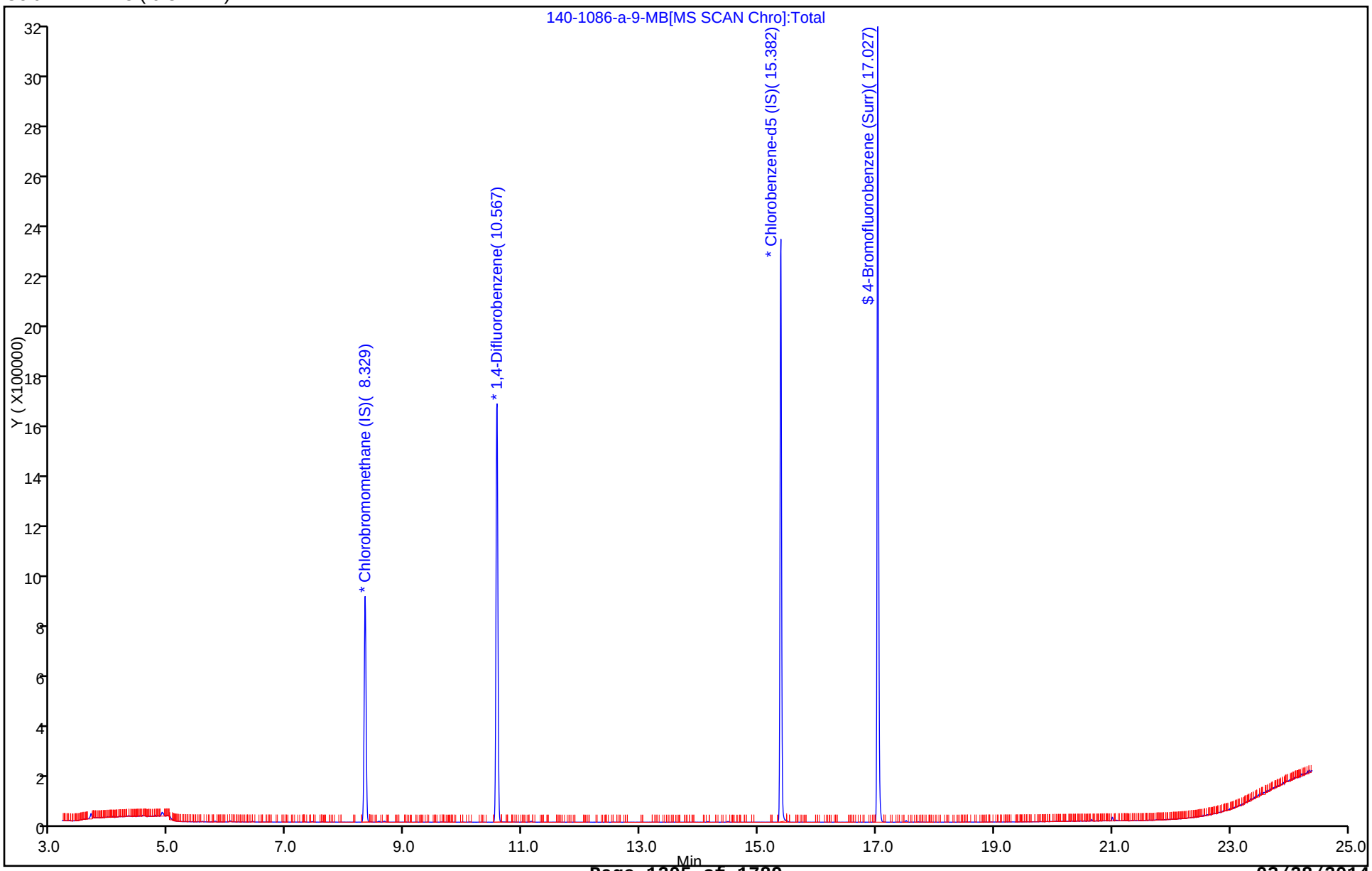
Report Date: 24-Mar-2014 13:18:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d

Injection Date:	24-Mar-2014 11:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	MB			Worklist Smp#:	1005
Client ID:	10758				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.28		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.22		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.11		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.03		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.07		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.21		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.40		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.19		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.65		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.33		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.31		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.97		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.24		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.43		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.33		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.31		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.83		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.85		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.95		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.63		0.40	0.080
591-78-6	2-Hexanone	100.20	1.77		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.40		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.79		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.81		0.20	0.018
67-64-1	Acetone	58.08	1.98	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.54		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.31		0.080	0.018
75-25-2	Bromoform	252.75	2.57		0.080	0.019
74-83-9	Bromomethane	94.94	2.64		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.07		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.43		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.16		0.080	0.020
75-00-3	Chloroethane	64.52	2.65		0.080	0.014
67-66-3	Chloroform	119.38	2.25		0.080	0.015
74-87-3	Chloromethane	50.49	2.20		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.99		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.19		0.080	0.030
110-82-7	Cyclohexane	84.16	1.99		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.40		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.53		0.080	0.027
64-17-5	Ethanol	46.07	10.8		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.25		0.080	0.027
142-82-5	Heptane	100.21	2.03		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.42		0.40	0.031
110-54-3	Hexane	86.17	1.87		0.20	0.013
496-11-7	Indane	118.18	2.34		0.080	0.080
95-13-6	Indene	116.16	2.44		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	2.28		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.23		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.09		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.73		0.080	0.048
91-20-3	Naphthalene	128.17	2.51		0.20	0.036
95-47-6	o-Xylene	106.17	2.27		0.080	0.024
115-07-1	Propene	42.08	1.83		0.20	0.031
100-42-5	Styrene	104.15	2.32		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.11		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.65		0.40	0.025
110-02-1	Thiophene	84.14	2.04		0.080	0.080
108-88-3	Toluene	92.14	2.12		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.05		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.23		0.080	0.019
79-01-6	Trichloroethene	131.39	1.99		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.69		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.52		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-967/1002

Matrix: Air Lab File ID: ECCVC17-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/17/2014 14:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 967 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2014 14:10:30 ALS Bottle#: 11 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E031714,TO155,,140-0000525-002
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140314-525.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 11:58:02 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	83	194987	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	96	948363	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	91	841452	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	799054	4.34	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	96	68017	2.49	
7 Propene	41	3.309	3.309	0.0	91	89870	1.83	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	100	545394	2.53	
9 Chloromethane	52	3.530	3.530	0.0	96	37901	2.20	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	96	344823	2.65	
11 Acetaldehyde	44	3.681	3.681	0.0	91	198373	12.2	
12 Vinyl chloride	62	3.692	3.692	0.0	99	167730	2.52	
14 Butane	43	3.772	3.772	0.0	82	212835	2.28	
13 Butadiene	54	3.772	3.772	0.0	73	111724	2.43	
15 Bromomethane	94	4.080	4.080	0.0	98	189671	2.64	
16 Chloroethane	64	4.209	4.209	0.0	96	89546	2.65	
17 Ethanol	31	4.317	4.317	0.0	98	210161	10.8	
18 Vinyl bromide	106	4.495	4.495	0.0	97	178718	2.75	
19 2-Methylbutane	43	4.538	4.538	0.0	87	163953	2.40	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	582335	2.69	
20 Acrolein	56	4.765	4.765	0.0	96	52604	2.55	
22 Acetonitrile	40	4.835	4.835	0.0	97	45964	2.48	
23 Acetone	58	4.878	4.878	0.0	78	58505	1.98	
25 Pentane	72	4.959	4.959	0.0	97	34498	2.69	
24 Isopropyl alcohol	45	4.970	4.970	0.0	74	173619	2.28	
26 Ethyl ether	31	5.121	5.121	0.0	86	111743	2.25	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	95	120148	2.07	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	95	225102	2.09	
28 Acrylonitrile	53	5.557	5.557	0.0	77	65518	1.92	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	93	296956	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	84	116644	2.09	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	81	136437	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	99	417272	2.07	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	96	145752	2.05	
35 2-Methylpentane	43	6.603	6.603	0.0	86	230417	1.79	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	94	393817	2.23	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	99	244663	2.03	
38 Vinyl acetate	43	7.126	7.126	0.0	99	227084	1.91	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	52060	1.63	
40 Hexane	56	7.585	7.585	0.0	81	96740	1.87	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	96	132011	1.99	
42 Ethyl acetate	43	8.200	8.200	0.0	97	190279	1.83	
43 Chloroform	83	8.356	8.356	0.0	97	375212	2.25	
44 Tetrahydrofuran	42	8.750	8.750	0.0	74	82467	1.65	
45 1,1,1-Trichloroethane	97	9.380	9.380	0.0	95	432739	2.28	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	268198	2.31	
47 n-Butanol	31	9.957	9.957	0.0	84	28373	1.60	
49 Cyclohexane	69	9.984	9.984	0.0	88	71308	1.99	
48 Benzene	78	9.995	9.995	0.0	98	396895	2.08	
50 Carbon tetrachloride	117	10.017	10.017	0.0	97	444726	2.43	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	84	86630	1.95	
52 Thiophene	84	10.281	10.281	0.0	94	242280	2.04	
53 Isooctane	57	10.783	10.783	0.0	95	543684	1.85	
54 n-Heptane	71	11.182	11.182	0.0	81	146471	2.03	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	120963	1.97	
56 Trichloroethene	130	11.306	11.306	0.0	90	187223	1.99	
57 Dibromomethane	93	11.397	11.397	0.0	92	193961	2.15	
58 Dichlorobromomethane	83	11.548	11.548	0.0	99	414880	2.31	
59 1,4-Dioxane	88	11.564	11.564	0.0	89	46339	1.83	
60 Methyl methacrylate	41	11.651	11.651	0.0	82	136735	1.90	
61 Methylcyclohexane	83	12.087	12.087	0.0	93	265205	1.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	93	203134	1.81	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	96	237004	2.19	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	252887	2.23	
65 Toluene	91	13.403	13.403	0.0	93	478545	2.12	
66 1,1,2-Trichloroethane	83	13.489	13.489	0.0	95	140242	2.11	
67 2-Methylthiophene	97	13.560	13.560	0.0	97	413338	2.11	
68 3-Methylthiophene	97	13.759	13.759	0.0	99	420040	2.13	
69 2-Hexanone	58	13.878	13.878	0.0	94	94354	1.77	
70 n-Octane	85	14.099	14.099	0.0	78	172890	2.15	
71 Chlorodibromomethane	129	14.190	14.190	0.0	96	360670	2.40	
72 Ethylene Dibromide	107	14.487	14.487	0.0	98	259569	2.19	
73 Tetrachloroethene	129	14.552	14.552	0.0	92	202773	2.11	
74 Chlorobenzene	112	15.436	15.436	0.0	81	387686	2.16	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	79	331396	1.92	
76 Ethylbenzene	91	15.727	15.727	0.0	99	649139	2.25	
77 2-Ethylthiophene	97	15.830	15.830	0.0	98	526817	2.27	
78 m-Xylene & p-Xylene	91	15.889	15.889	0.0	99	1074808	4.73	
81 n-Nonane	57	16.304	16.304	0.0	79	249750	1.98	
79 Bromoform	173	16.337	16.337	0.0	94	347732	2.57	
80 Styrene	104	16.353	16.353	0.0	94	364311	2.32	
82 o-Xylene	91	16.412	16.412	0.0	97	558319	2.27	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	96	318790	2.21	
84 1,2,3-Trichloropropane	110	16.903	16.903	0.0	95	118506	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.000	17.000	0.0	98	731982	2.26	
86 N-Propylbenzene	120	17.545	17.545	0.0	98	184330	2.17	
87 2-Chlorotoluene	126	17.593	17.593	0.0	96	173671	2.15	
88 4-Ethyltoluene	105	17.701	17.701	0.0	97	698876	2.25	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	90	315077	2.24	
90 Alpha Methyl Styrene	118	18.019	18.019	0.0	82	271537	2.34	
91 n-Decane	57	18.073	18.073	0.0	95	301171	2.26	
92 tert-Butylbenzene	119	18.213	18.213	0.0	88	660606	2.33	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	95	620974	2.40	
95 sec-Butylbenzene	105	18.488	18.488	0.0	97	831631	2.39	
94 1,3-Dichlorobenzene	146	18.504	18.504	0.0	96	390825	2.33	
96 Benzyl chloride	91	18.585	18.585	0.0	96	540080	2.54	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	89	380916	2.31	
98 4-Isopropyltoluene	119	18.655	18.655	0.0	86	728625	2.48	
99 1,2,3-Trimethylbenzene	105	18.709	18.709	0.0	98	515054	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	472513	2.33	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	88	527242	2.34	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	81	373214	2.33	
103 Indene	116	19.092	19.092	0.0	86	523229	2.44	
104 n-Butylbenzene	91	19.098	19.098	0.0	96	692532	2.66	
106 Undecane	57	19.410	19.410	0.0	87	267589	2.27	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	664924	2.63	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	94	686223	2.74	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	92	432945	2.65	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	94	539127	2.58	
110 Dodecane	57	20.467	20.467	0.0	88	217408	2.46	
111 1,2,4-Trichlorobenzene	180	20.661	20.661	0.0	93	235745	2.21	
112 Naphthalene	128	20.796	20.796	0.0	98	469207	2.51	
113 Benzo(b)thiophene	134	20.904	20.904	0.0	98	302906	2.24	
114 Hexachlorobutadiene	225	21.012	21.012	0.0	84	337239	2.42	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	93	194551	2.44	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	98	208254	23.6	
117 1-Methylnaphthalene	142	22.128	22.128	0.0	98	184147	23.9	
A 118 C6 Range	1	7.585	7.531 -	7.639	0	1180110	1.82	
A 119 Toluene Range	1	13.395	13.355 -	13.452	0	1216911	2.15	
A 120 C8 Range	1	14.099	14.050 -	14.147	0	1408830	2.08	
S 124 Xylenes, Total	100				0		7.00	

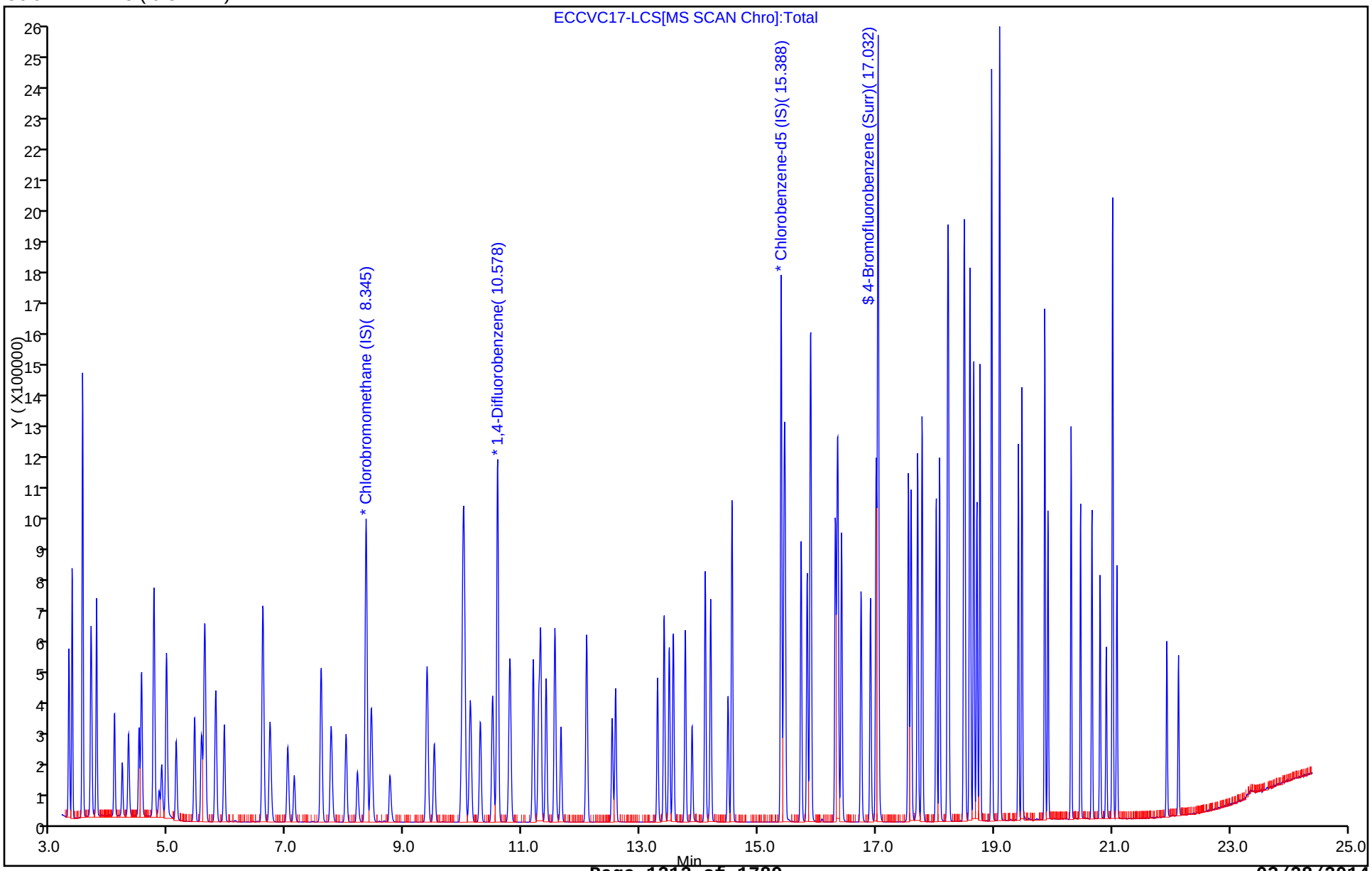
Report Date: 18-Mar-2014 11:58:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140314-525.b\ECCVC17-LCS.d

Injection Date:	17-Mar-2014 14:10:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-977/1002

Matrix: Air Lab File ID: ECCVC20-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/20/2014 13:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.07		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.91		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.22		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.80		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.73		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.22		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.68		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.38		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.98		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.53		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.49		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.87		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.62		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.25		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.00		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.44		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.41		0.080	0.026
123-91-1	1,4-Dioxane	88.11	2.03		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.55		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.76		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.40		0.40	0.080
591-78-6	2-Hexanone	100.20	1.59		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.93		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.32		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.17		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.32		0.20	0.018
67-64-1	Acetone	58.08	1.78	J	2.0	0.56
71-43-2	Benzene	78.11	1.81		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.27		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.02		0.080	0.018
75-25-2	Bromoform	252.75	2.69		0.080	0.019
74-83-9	Bromomethane	94.94	2.43		0.080	0.013
75-15-0	Carbon disulfide	76.14	1.87		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-977/1002

Matrix: Air Lab File ID: ECCVC20-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/20/2014 13:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.48		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.14		0.080	0.020
75-00-3	Chloroethane	64.52	2.20		0.080	0.014
67-66-3	Chloroform	119.38	1.89		0.080	0.015
74-87-3	Chloromethane	50.49	1.91		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.94		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.78		0.080	0.030
110-82-7	Cyclohexane	84.16	1.77		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.38		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.25		0.080	0.027
64-17-5	Ethanol	46.07	9.76		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.94		0.080	0.027
142-82-5	Heptane	100.21	1.78		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.95		0.40	0.031
110-54-3	Hexane	86.17	1.51		0.20	0.013
496-11-7	Indane	118.18	2.32		0.080	0.080
95-13-6	Indene	116.16	2.46		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	2.07		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.76		0.40	0.068
75-09-2	Methylene Chloride	84.93	1.98		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.16		0.080	0.048
91-20-3	Naphthalene	128.17	2.83		0.20	0.036
95-47-6	o-Xylene	106.17	2.02		0.080	0.024
115-07-1	Propene	42.08	1.42		0.20	0.031
100-42-5	Styrene	104.15	2.13		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.24		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.13		0.40	0.025
110-02-1	Thiophene	84.14	1.84		0.080	0.080
108-88-3	Toluene	92.14	1.88		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.04		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.73		0.080	0.019
79-01-6	Trichloroethene	131.39	2.11		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.57		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.18		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-977/1002

Matrix: Air Lab File ID: ECCVC20-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/20/2014 13:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\ECCVC20-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 20-Mar-2014 13:10:30 ALS Bottle#: 12 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032014,TO155,,140-0000533-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 15:52:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: barlozhetskayaa Date: 20-Mar-2014 15:47:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	74	289601	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.578	0.0	94	1358612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1179251	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1028624	3.98	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	88779	2.19	
7 Propene	41	3.314	3.314	0.0	92	103506	1.42	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	722290	2.25	
9 Chloromethane	52	3.530	3.530	0.0	98	48803	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.541	0.0	91	489126	2.53	
11 Acetaldehyde	44	3.681	3.681	0.0	92	214958	8.86	
12 Vinyl chloride	62	3.692	3.692	0.0	99	215153	2.18	
13 Butadiene	54	3.772	3.772	0.0	74	136268	2.00	
14 Butane	43	3.772	3.772	0.0	81	253837	1.83	
15 Bromomethane	94	4.080	4.080	0.0	99	259201	2.43	
16 Chloroethane	64	4.209	4.209	0.0	97	110420	2.20	
17 Ethanol	31	4.317	4.317	0.0	97	282774	9.76	
18 Vinyl bromide	106	4.495	4.495	0.0	97	261488	2.71	
19 2-Methylbutane	43	4.538	4.538	0.0	85	195238	1.93	
21 Trichlorofluoromethane	101	4.748	4.748	0.0	99	825608	2.57	
20 Acrolein	56	4.765	4.765	0.0	95	49152	1.60	
22 Acetonitrile	40	4.835	4.835	0.0	97	51504	1.87	
23 Acetone	58	4.883	4.883	0.0	87	77938	1.78	
25 Pentane	72	4.959	4.959	0.0	96	43586	2.29	
24 Isopropyl alcohol	45	4.970	4.970	0.0	89	233419	2.07	
26 Ethyl ether	31	5.126	5.126	0.0	77	112385	1.52	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	191222	2.22	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	310867	1.94	
28 Acrylonitrile	53	5.557	5.557	0.0	86	73628	1.45	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.611	5.611	0.0	95	441179	2.22	
31 Methylene Chloride	84	5.789	5.789	0.0	78	163866	1.98	
32 3-Chloro-1-propene	39	5.805	5.805	0.0	79	157984	1.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	100	560803	1.87	
34 trans-1,2-Dichloroethene	96	6.593	6.593	0.0	96	215294	2.04	
35 2-Methylpentane	43	6.603	6.603	0.0	83	251481	1.32	
36 Methyl tert-butyl ether	73	6.722	6.722	0.0	93	463392	1.76	
37 1,1-Dichloroethane	63	7.019	7.019	0.0	98	309740	1.73	
38 Vinyl acetate	43	7.127	7.127	0.0	98	211840	1.20	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	83	66518	1.40	
40 Hexane	56	7.585	7.585	0.0	84	116146	1.51	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	191102	1.94	
42 Ethyl acetate	43	8.200	8.200	0.0	97	191515	1.24	
43 Chloroform	83	8.356	8.356	0.0	96	469941	1.89	
44 Tetrahydrofuran	42	8.750	8.750	0.0	69	84250	1.13	
45 1,1,1-Trichloroethane	97	9.381	9.381	0.0	94	581241	2.07	
46 1,2-Dichloroethane	62	9.505	9.505	0.0	98	310924	1.87	
47 n-Butanol	31	9.958	9.958	0.0	71	32097	1.27	
49 Cyclohexane	69	9.984	9.984	0.0	90	90599	1.77	
48 Benzene	78	9.995	9.995	0.0	96	495041	1.81	
50 Carbon tetrachloride	117	10.017	10.017	0.0	98	650392	2.48	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	83	111892	1.76	
52 Thiophene	84	10.286	10.286	0.0	91	312906	1.84	
53 Isooctane	57	10.788	10.788	0.0	96	655127	1.55	
54 n-Heptane	71	11.182	11.182	0.0	75	184593	1.78	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	79	142107	1.62	
56 Trichloroethene	130	11.306	11.306	0.0	96	285348	2.11	
57 Dibromomethane	93	11.397	11.397	0.0	94	255681	1.98	
58 Dichlorobromomethane	83	11.548	11.548	0.0	98	519133	2.02	
59 1,4-Dioxane	88	11.564	11.564	0.0	82	73669	2.03	
60 Methyl methacrylate	41	11.651	11.651	0.0	76	140753	1.37	
61 Methylcyclohexane	83	12.088	12.088	0.0	90	353134	1.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	90	213089	1.32	
63 cis-1,3-Dichloropropene	75	12.578	12.578	0.0	94	276588	1.78	
64 trans-1,3-Dichloropropene	75	13.290	13.290	0.0	96	275309	1.73	
65 Toluene	91	13.398	13.398	0.0	94	593323	1.88	
66 1,1,2-Trichloroethane	83	13.490	13.490	0.0	96	167744	1.80	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	550995	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	552219	2.00	
69 2-Hexanone	58	13.878	13.878	0.0	96	118593	1.59	
70 n-Octane	85	14.099	14.099	0.0	71	232095	2.06	
71 Chlorodibromomethane	129	14.191	14.191	0.0	96	502022	2.38	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	328771	1.98	
73 Tetrachloroethene	129	14.552	14.552	0.0	95	300820	2.24	
74 Chlorobenzene	112	15.436	15.436	0.0	86	539331	2.14	
75 2,3-Dimethylheptane	43	15.452	15.452	0.0	71	343353	1.42	
76 Ethylbenzene	91	15.722	15.722	0.0	98	786777	1.94	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	667727	2.06	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	98	1324154	4.16	
81 n-Nonane	57	16.304	16.304	0.0	73	290118	1.64	
79 Bromoform	173	16.337	16.337	0.0	97	509957	2.69	
80 Styrene	104	16.347	16.347	0.0	95	468834	2.13	
82 o-Xylene	91	16.412	16.412	0.0	98	694899	2.02	
83 1,1,2,2-Tetrachloroethane	83	16.741	16.741	0.0	97	387842	1.91	
84 1,2,3-Trichloropropane	110	16.898	16.898	0.0	94	158204	2.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	16.995	16.995	0.0	97	977105	2.15	
86 N-Propylbenzene	120	17.545	17.545	0.0	99	253833	2.14	
87 2-Chlorotoluene	126	17.588	17.588	0.0	97	247221	2.18	
88 4-Ethyltoluene	105	17.701	17.701	0.0	99	947069	2.17	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	443610	2.25	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	385349	2.37	
91 n-Decane	57	18.073	18.073	0.0	96	344886	1.85	
92 tert-Butylbenzene	119	18.208	18.208	0.0	86	903532	2.27	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	94	863025	2.38	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1131539	2.32	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	575227	2.44	
96 Benzyl chloride	91	18.580	18.580	0.0	98	675603	2.27	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	93	557522	2.41	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	86	1011026	2.45	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	98	723153	2.35	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	593160	2.09	
102 2,3-Dihydroindene	117	18.957	18.957	0.0	90	733640	2.32	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	558867	2.49	
103 Indene	116	19.087	19.087	0.0	87	739526	2.46	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	896105	2.45	
106 Undecane	57	19.410	19.410	0.0	85	322521	1.96	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	946883	2.67	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	969403	2.76	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	95	613437	2.68	
109 1,2,3,4-Tetramethylbenzene	119	20.305	20.305	0.0	95	780314	2.67	
110 Dodecane	57	20.462	20.462	0.0	89	305080	2.46	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	94	400984	2.68	
112 Naphthalene	128	20.796	20.796	0.0	98	740550	2.83	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	523332	2.76	
114 Hexachlorobutadiene	225	21.007	21.007	0.0	86	577219	2.95	
115 1,2,3-Trichlorobenzene	180	21.082	21.082	0.0	94	355002	3.18	
116 2-Methylnaphthalene	142	21.929	21.929	0.0	99	449561	36.3	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	405727	37.6	
A 118 C6 Range	1	7.590	7.531 -	7.650	0	1359194	1.46	
A 119 Toluene Range	1	13.398	13.349 -	13.446	0	1444592	1.78	
A 120 C8 Range	1	14.091	14.050 -	14.158	0	1652132	1.70	
S 124 Xylenes, Total	100				0		6.18	

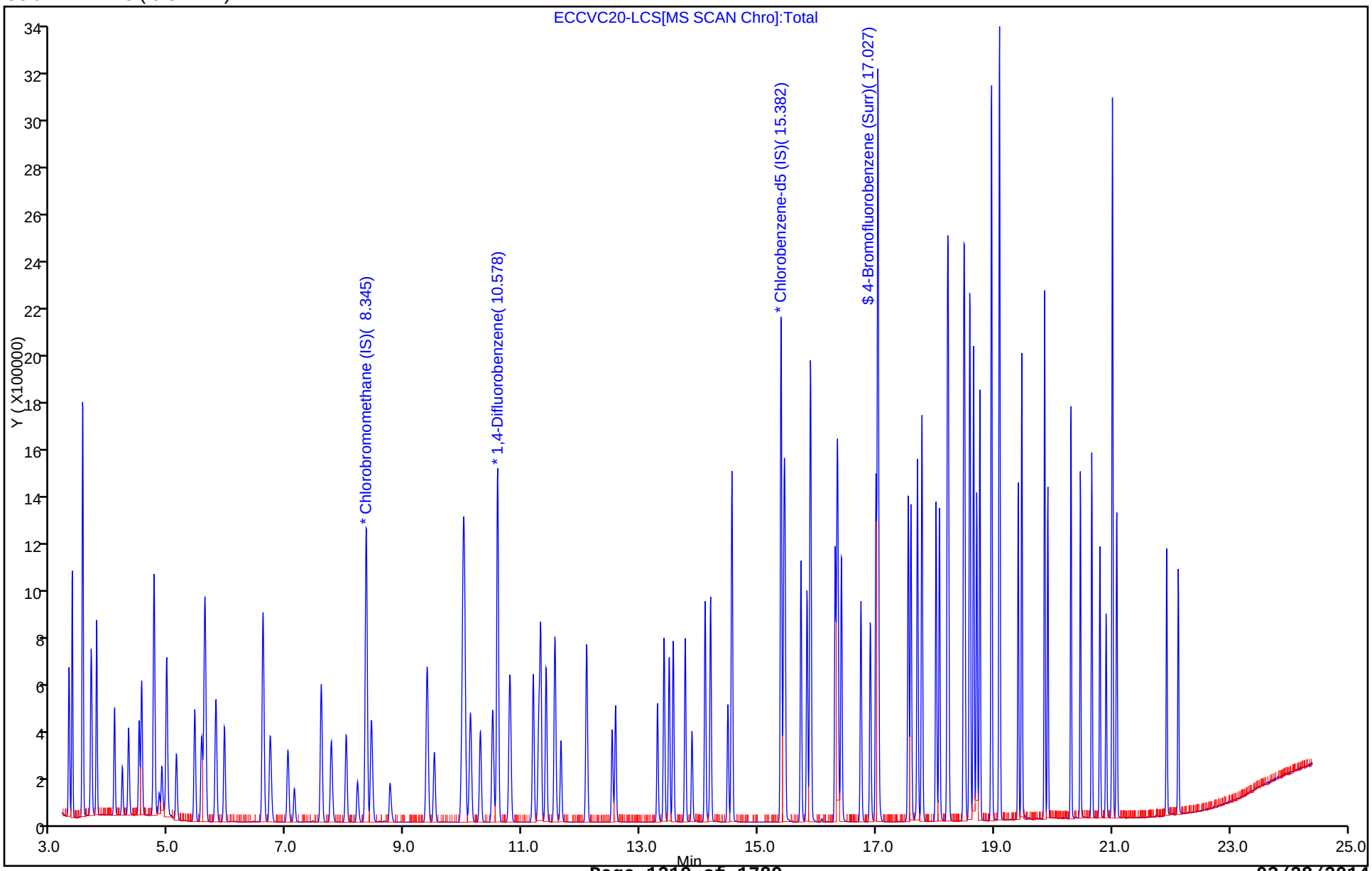
Report Date: 20-Mar-2014 15:52:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\ECCVC20-LCS.d

Injection Date:	20-Mar-2014 13:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.82		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.73		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.26		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.68		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.83		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.30		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.52		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.72		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.69		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.18		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.51		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.83		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.66		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.69		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.49		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.58		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.70		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.69		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.71		0.40	0.080
591-78-6	2-Hexanone	100.20	1.75		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.89		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	1.75		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.74		0.20	0.018
67-64-1	Acetone	58.08	1.05	J	2.0	0.56
71-43-2	Benzene	78.11	1.76		0.080	0.022
100-44-7	Benzyl chloride	126.58	1.59		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.73		0.080	0.018
75-25-2	Bromoform	252.75	1.62		0.080	0.019
74-83-9	Bromomethane	94.94	1.98		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.05		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	1.79		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.64		0.080	0.020
75-00-3	Chloroethane	64.52	1.98		0.080	0.014
67-66-3	Chloroform	119.38	1.79		0.080	0.015
74-87-3	Chloromethane	50.49	2.04		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.89		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.65		0.080	0.030
110-82-7	Cyclohexane	84.16	1.85		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.74		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.10		0.080	0.027
64-17-5	Ethanol	46.07	9.32		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.70		0.080	0.027
142-82-5	Heptane	100.21	1.69		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.43		0.40	0.031
110-54-3	Hexane	86.17	1.70		0.20	0.013
496-11-7	Indane	118.18	1.70		0.080	0.080
95-13-6	Indene	116.16	1.75		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.81		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.83		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.13		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	3.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.50		0.20	0.036
95-47-6	o-Xylene	106.17	1.67		0.080	0.024
115-07-1	Propene	42.08	1.93		0.20	0.031
100-42-5	Styrene	104.15	1.64		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.70		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.73		0.40	0.025
110-02-1	Thiophene	84.14	1.72		0.080	0.080
108-88-3	Toluene	92.14	1.69		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.90		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.70		0.080	0.019
79-01-6	Trichloroethene	131.39	1.78		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.06		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.06		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J032114,TO15,,140-0000540-002
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 -	8.695	0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 -	14.277	0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 -	14.973	0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

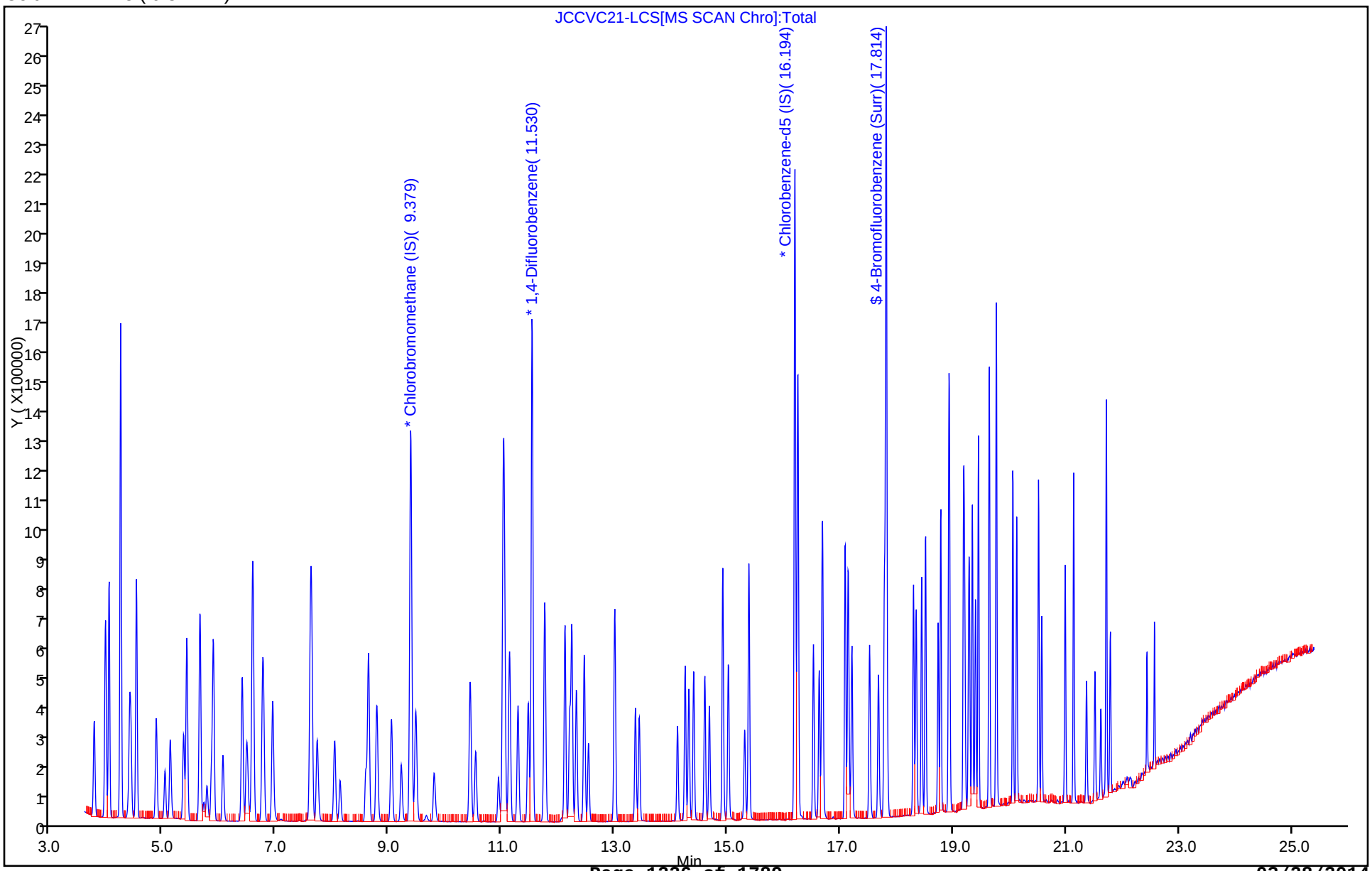
Report Date: 21-Mar-2014 14:37:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d

Injection Date:	21-Mar-2014 11:30:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.11		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.04		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.19		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.87		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.73		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.02		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.49		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.50		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.06		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.59		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.52		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.93		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.65		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.33		0.080	0.026
106-99-0	1,3-Butadiene	54.09	1.93		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.50		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.49		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.42		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.63		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.47		0.40	0.080
591-78-6	2-Hexanone	100.20	1.41		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.88		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.24		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.31		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.15		0.20	0.018
67-64-1	Acetone	58.08	1.82	J	2.0	0.56
71-43-2	Benzene	78.11	1.80		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.40		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.99		0.080	0.018
75-25-2	Bromoform	252.75	2.76		0.080	0.019
74-83-9	Bromomethane	94.94	2.33		0.080	0.013
75-15-0	Carbon disulfide	76.14	1.83		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.36		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.17		0.080	0.020
75-00-3	Chloroethane	64.52	2.15		0.080	0.014
67-66-3	Chloroform	119.38	1.95		0.080	0.015
74-87-3	Chloromethane	50.49	1.78		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.82		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.87		0.080	0.030
110-82-7	Cyclohexane	84.16	1.62		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.34		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.25		0.080	0.027
64-17-5	Ethanol	46.07	8.52		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.07		0.080	0.027
142-82-5	Heptane	100.21	1.64		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.94		0.40	0.031
110-54-3	Hexane	86.17	1.45		0.20	0.013
496-11-7	Indane	118.18	2.40		0.080	0.080
95-13-6	Indene	116.16	2.51		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.79		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.99		0.40	0.068
75-09-2	Methylene Chloride	84.93	1.92		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.51		0.080	0.048
91-20-3	Naphthalene	128.17	2.46		0.20	0.036
95-47-6	o-Xylene	106.17	2.15		0.080	0.024
115-07-1	Propene	42.08	1.34		0.20	0.031
100-42-5	Styrene	104.15	2.31		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.03		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.23		0.40	0.025
110-02-1	Thiophene	84.14	1.78		0.080	0.080
108-88-3	Toluene	92.14	1.95		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.93		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.86		0.080	0.019
79-01-6	Trichloroethene	131.39	1.91		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.60		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.12		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032414,TO155,,140-0000541-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 -	13.452	0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 -	14.142	0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

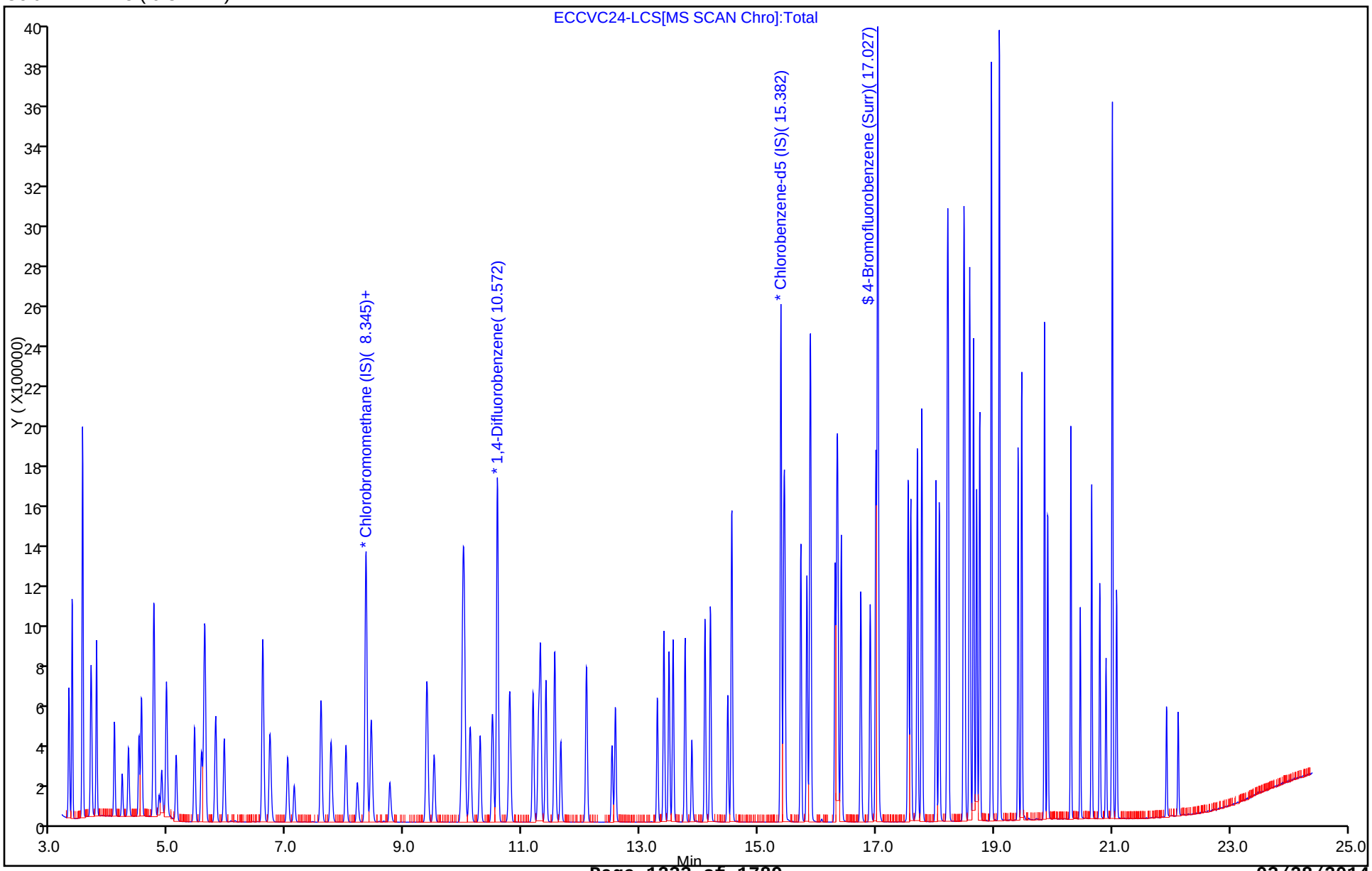
Report Date: 24-Mar-2014 13:17:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d

Injection Date:	24-Mar-2014 09:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 DU Lab Sample ID: 140-1060-17 DU

Matrix: Air Lab File ID: EC20P115D.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.0674	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.153	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.136	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.0895	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.758		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.63	J	5.0	1.4
71-43-2	Benzene	78.11	0.227		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 DU Lab Sample ID: 140-1060-17 DU

Matrix: Air Lab File ID: EC20P115D.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.0798	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.121	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.574		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.512		0.20	0.068
64-17-5	Ethanol	46.07	47.0		2.0	2.0
100-41-4	Ethylbenzene	106.17	18.0		0.20	0.068
142-82-5	Heptane	100.21	0.0504	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.0834	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.44	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.572		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	72.8		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	26.2		0.20	0.061
115-07-1	Propene	42.08	1.02		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.0508	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	4.21		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.266		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Client Sample ID: PCV-IA2-B9 DU Lab Sample ID: 140-1060-17 DU

Matrix: Air Lab File ID: EC20P115D.D

Analysis Method: TO-15 Date Collected: 03/14/2014 16:17

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 03:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 977 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115D.D
Lims ID: 140-1060-A-17 DU
Client ID:
Sample Type: DU
Inject. Date: 21-Mar-2014 03:49:30 ALS Bottle#: 15 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1060-a-17
Misc. Info.: E032014,TO155,,140-0000533-020
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140318-533.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 09:46:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 09:46:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.345	-0.011	69	256075	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.578	-0.011	94	1138179	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	995486	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	89	880241	4.04	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	71	4273	0.1190	
7 Propene	41	3.314	3.314	0.0	80	26369	0.4093	
8 Dichlorodifluoromethane	85	3.357	3.363	-0.006	99	57988	0.2047	
9 Chloromethane	52	3.530	3.530	0.0	98	5190	0.2295	
13 Butadiene	54	3.772	3.772	0.0	29	3293	0.0546	
14 Butane	43	3.772	3.772	0.0	91	91817	0.7499	
17 Ethanol	31	4.317	4.317	0.0	97	481166	18.8	
19 2-Methylbutane	43	4.533	4.538	-0.005	83	27196	0.3033	
21 Trichlorofluoromethane	101	4.743	4.748	-0.005	94	30236	0.1064	
20 Acrolein	56	4.765	4.765	0.0	57	2241	0.0827	
23 Acetone	58	4.878	4.883	-0.005	99	40823	1.05	
25 Pentane	72	4.953	4.959	-0.006	95	3933	0.2339	
24 Isopropyl alcohol	45	4.970	4.970	0.0	90	57379	0.5746	
29 2-Methyl-2-propanol	59	5.568	5.552	0.016	77	8696	0.0615	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.611	-0.005	77	4745	0.0270	
31 Methylene Chloride	84	5.784	5.789	-0.005	75	16736	0.2287	
40 Hexane	56	7.569	7.585	-0.016	71	2271	0.0333	
43 Chloroform	83	8.340	8.356	-0.016	23	10620	0.0484	
48 Benzene	78	9.984	9.995	-0.011	93	20781	0.0907	
50 Carbon tetrachloride	117	10.006	10.017	-0.011	91	7026	0.0319	
53 Isooctane	57	10.777	10.788	-0.011	90	12661	0.0358	
54 n-Heptane	71	11.182	11.182	0.0	58	1747	0.0201	
65 Toluene	91	13.398	13.398	0.0	94	449549	1.69	
73 Tetrachloroethene	129	14.541	14.552	-0.011	73	2306	0.0203	
76 Ethylbenzene	91	15.722	15.722	0.0	98	2466146	7.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	92	7832802	29.1	
81 n-Nonane	57	16.304	16.304	0.0	60	4121	0.0276	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	16.407	16.412	-0.005	99	3042429	10.5	
85 Isopropylbenzene	105	16.995	16.995	0.0	92	30378	0.0791	
88 4-Ethyltoluene	105	17.701	17.701	0.0	85	7356	0.0200	7M
91 n-Decane	57	18.068	18.073	-0.005	69	3499	0.0222	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	86	18755	0.0614	
S 124 Xylenes, Total	100				0		39.6	
T 136 Methanol TIC	31	3.999	3.995	-0.001	1	319	0.004983	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

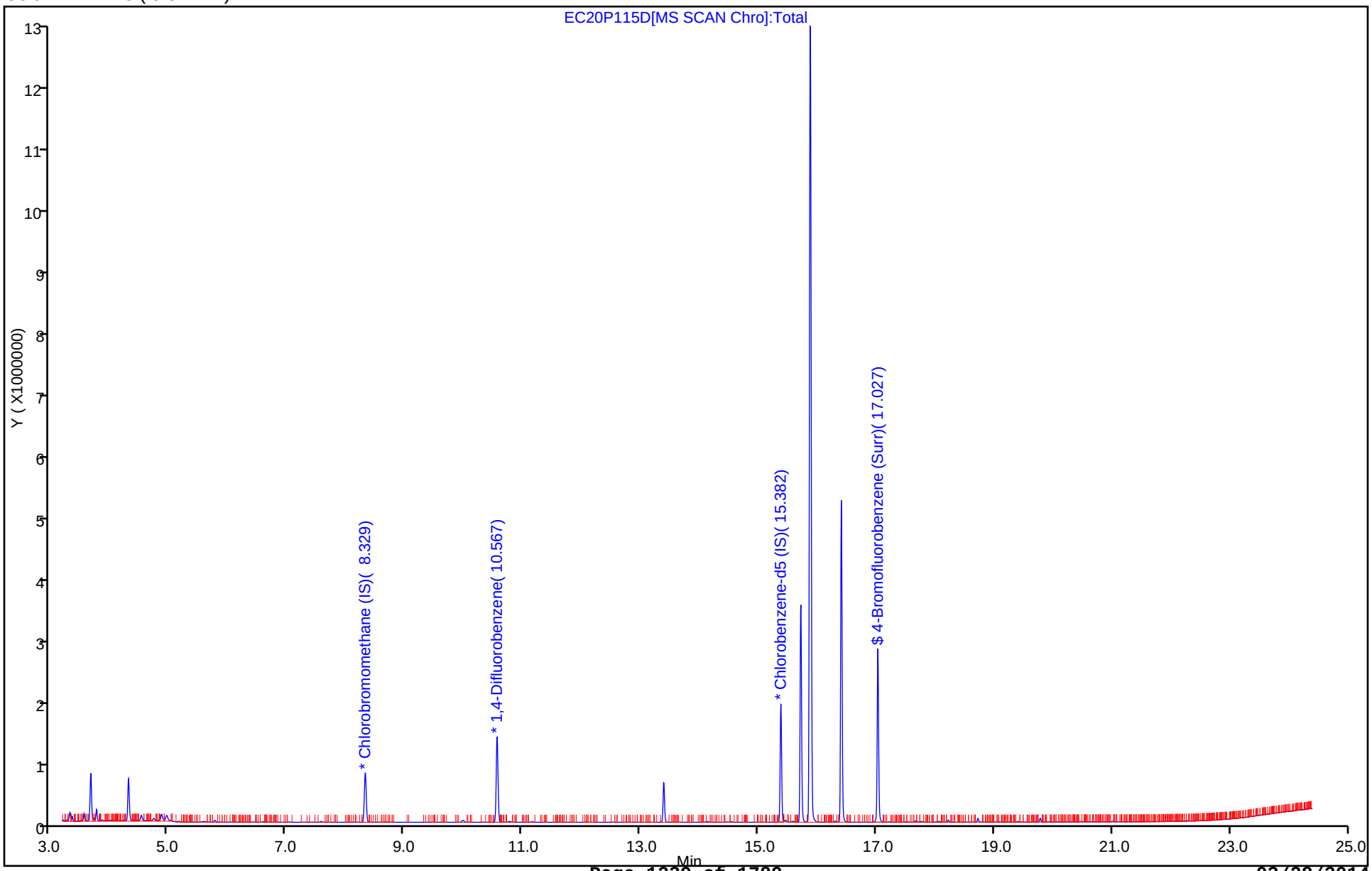
Review Flags
M - Manually Integrated

Report Date: 21-Mar-2014 09:46:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115D.D				
Injection Date:	21-Mar-2014 03:49:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1060-A-17 DU			Worklist Smp#:	20
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Manual Integration/User Assign Peak Report

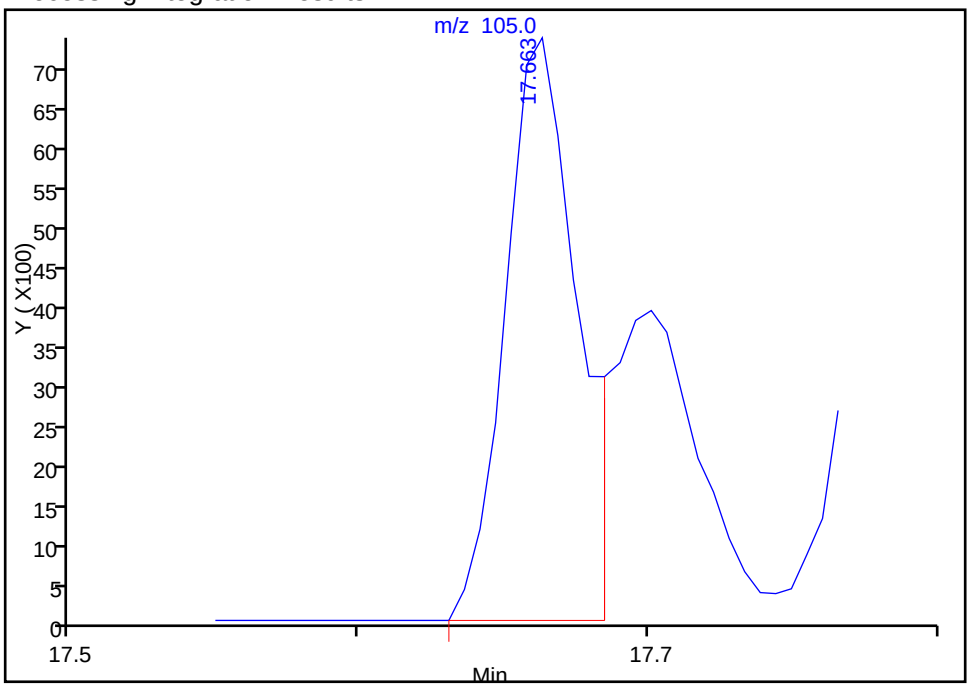
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140318-533.b\EC20P115D.D				
Injection Date:	21-Mar-2014 03:49:30	Instrument ID:	ME		
Lims ID:	140-1060-A-17 DU				
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

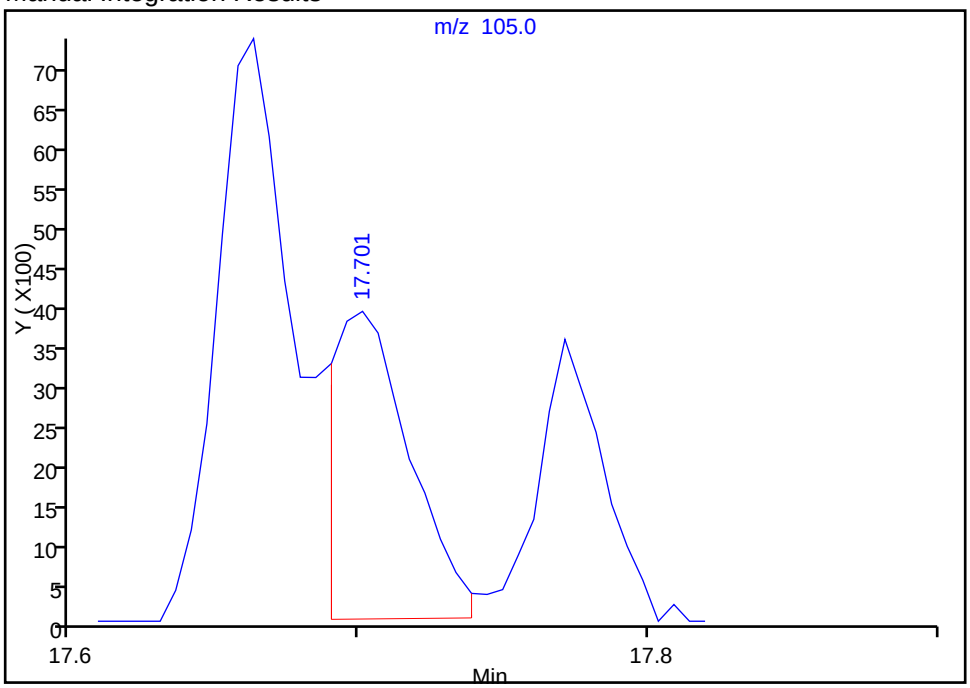
Processing Integration Results

RT: 17.66
Response: 12880
Amount: 0.035029



Manual Integration Results

RT: 17.70
Response: 7356
Amount: 0.020006



Reviewer: tajh, 21-Mar-2014 09:46:40
Audit Action: Manually Integrated
Audit Reason: Split Peak

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: MJ Start Date: 03/11/2014 12:12

Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32(mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32(mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32(mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32(mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32(mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32(mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32(mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32(mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32(mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32(mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCSC11.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: ME Start Date: 03/17/2014 13:39

Analysis Batch Number: 967 End Date: 03/18/2014 09:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-967/1		03/17/2014 13:39	1	EBFBC17.D	RTX-5 0.32(mm)
CCVIS 140-967/2		03/17/2014 14:10	1	ECCVC17.D	RTX-5 0.32(mm)
LCS 140-967/1002		03/17/2014 14:10	1	ECCVC17-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 16:25	1		RTX-5 0.32(mm)
MB 140-967/5		03/17/2014 17:11	1	EMBC17.D	RTX-5 0.32(mm)
ZZZZZ		03/17/2014 17:56	8836.73		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 18:41	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 19:27	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:13	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 20:58	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 21:44	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 22:29	1		RTX-5 0.32(mm)
ZZZZZ		03/17/2014 23:15	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:00	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 00:45	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 01:30	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 02:15	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 03:01	1		RTX-5 0.32(mm)
140-1060-1	PCV-IA1-B7	03/18/2014 03:47	1	EC17POS114.D	RTX-5 0.32(mm)
140-1060-2	PCV-IA2-B4	03/18/2014 04:33	1	EC17POS115.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 05:18	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:03	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 06:49	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 07:35	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 08:20	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 09:06	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: ME Start Date: 03/20/2014 12:40

Analysis Batch Number: 977 End Date: 03/21/2014 06:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-977/1		03/20/2014 12:40	1	EBFBC20.D	RTX-5 0.32(mm)
CCVIS 140-977/2		03/20/2014 13:10	1	ECCVC20.D	RTX-5 0.32(mm)
LCS 140-977/1002		03/20/2014 13:10	1	ECCVC20-LCS.d	RTX-5 0.32(mm)
MB 140-977/4		03/20/2014 15:46	1	MB200mL.D	RTX-5 0.32(mm)
140-1060-3	PCV-IA1-B6	03/20/2014 16:31	1	EC20P101.D	RTX-5 0.32(mm)
140-1060-4	PCV-IA2-B6	03/20/2014 17:15	1	EC20P102.D	RTX-5 0.32(mm)
140-1060-5	PCV-IA1-B15	03/20/2014 18:00	1	EC20P103.D	RTX-5 0.32(mm)
140-1060-6	PCV-IA2-B15	03/20/2014 18:46	1	EC20P104.D	RTX-5 0.32(mm)
140-1060-7	PCV-IA3-B15	03/20/2014 19:31	1	EC20P105.D	RTX-5 0.32(mm)
140-1060-8	PCV-AMB7	03/20/2014 20:16	1	EC20P106.D	RTX-5 0.32(mm)
140-1060-9	PCV-IA1-B17	03/20/2014 21:00	1	EC20P107.D	RTX-5 0.32(mm)
140-1060-10	PCV-IA2-B17	03/20/2014 21:45	1	EC20P108.D	RTX-5 0.32(mm)
140-1060-11	PCV-IA3FD-B17	03/20/2014 22:30	1	EC20P109.D	RTX-5 0.32(mm)
140-1060-12	PCV-IA3-B17	03/20/2014 23:16	1	EC20P110.D	RTX-5 0.32(mm)
140-1060-13	PCV-IA4-B17	03/21/2014 00:01	1	EC20P111.D	RTX-5 0.32(mm)
140-1060-14	PCV-IA5-B17	03/21/2014 00:47	1	EC20P112.D	RTX-5 0.32(mm)
140-1060-15	PCV-IA1-B9	03/21/2014 01:33	1	EC20P113.D	RTX-5 0.32(mm)
140-1060-16	PCV-IA1FD-B9	03/21/2014 02:19	1	EC20P114.D	RTX-5 0.32(mm)
140-1060-17	PCV-IA2-B9	03/21/2014 03:04	1	EC20P115.D	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 03:49	1		RTX-5 0.32(mm)
140-1060-18	PCV-IA1-B8	03/21/2014 04:33	1	EC20P201.D	RTX-5 0.32(mm)
140-1060-19	PCV-IA1FD-B8	03/21/2014 05:18	1	EC20P202.D	RTX-5 0.32(mm)
140-1060-20	PCV-IA2-B8	03/21/2014 06:03	1	EC20P203.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: MJ Start Date: 03/21/2014 11:03

Analysis Batch Number: 984 End Date: 03/22/2014 07:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-984/1		03/21/2014 11:03	1	JBFBC21.D	RTX-5 0.32(mm)
CCVIS 140-984/2		03/21/2014 11:30	1	JCCVC21.D	RTX-5 0.32(mm)
LCS 140-984/1002		03/21/2014 11:30	1	JCCVC21-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 13:45	1		RTX-5 0.32(mm)
MB 140-984/5		03/21/2014 14:39	1	200BLK.D	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 15:32	1		RTX-5 0.32(mm)
140-1060-21	PCV-IA1-B20	03/21/2014 16:26	1	JC21P102.D	RTX-5 0.32(mm)
140-1060-22	PCV-IA2-B20	03/21/2014 17:20	1	JC21P103.D	RTX-5 0.32(mm)
140-1060-23	PCV-IA3-B20	03/21/2014 18:13	1.66	JC21P104.D	RTX-5 0.32(mm)
140-1060-24	PCV-AMB-8	03/21/2014 19:07	1	JC21P105.D	RTX-5 0.32(mm)
140-1060-15 DL	PCV-IA1-B9 DL	03/21/2014 20:00	1	JC21P106.D	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 20:53	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 21:46	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 22:40	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 23:34	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 00:28	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 01:22	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 02:16	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 03:10	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 04:04	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 04:58	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 06:47	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 07:41	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Instrument ID: ME Start Date: 03/24/2014 08:44

Analysis Batch Number: 990 End Date: 03/25/2014 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-990/1		03/24/2014 08:44	1	EBFBC24.D	RTX-5 0.32(mm)
CCVIS 140-990/2		03/24/2014 09:15	1	ECCVC24.D	RTX-5 0.32(mm)
LCS 140-990/1002		03/24/2014 09:15	1	ECCVC24-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 11:00	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 11:45	1		RTX-5 0.32(mm)
MB 140-990/1005		03/24/2014 11:45	1	140-1086-a-9-MB .d	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 12:32	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 13:17	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 14:38	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 15:23	332.65		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 16:08	3306.12		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 16:53	8816.33		RTX-5 0.32(mm)
140-1060-16 DL	PCV-IA1FD-B9 DL	03/24/2014 17:39	1	EC24P109.D	RTX-5 0.32(mm)
140-1060-18 DL	PCV-IA1-B8 DL	03/24/2014 18:24	1	EC24P110.D	RTX-5 0.32(mm)
140-1060-19 DL	PCV-IA1FD-B8 DL	03/24/2014 19:08	1	EC24P111.D	RTX-5 0.32(mm)
140-1060-22 DL	PCV-IA2-B20 DL	03/24/2014 19:53	1	EC24P112.D	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 20:38	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 21:24	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 22:09	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 22:54	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 23:39	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 00:24	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 01:09	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 01:55	1		RTX-5 0.32(mm)

Summa Canister Dilution Worksheet

Client: AECOM, Inc.

Job No.: 140-1060-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Date	Analyst
140-1060-23	6	-11.9	0.60	3.61	0	1.00	6.00		1.66	1.66	03/17/14 10:53	Flores, David D

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09996 | Lab Sample ID: 140-855-1

Matrix: Air | Lab File ID: 140-855-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 04:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09996 | Lab Sample ID: 140-855-1

Matrix: Air | Lab File ID: 140-855-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 04:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09996 | Lab Sample ID: 140-855-1

Matrix: Air | Lab File ID: 140-855-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 04:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 09996 Lab Sample ID: 140-855-1

Matrix: Air Lab File ID: 140-855-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-1.D
Lims ID: 140-855-A-1 Lab Sample ID: 140-855-1
Client ID: 09996
Sample Type: Client
Inject. Date: 11-Feb-2014 04:15:30 ALS Bottle#: 9 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09996
Misc. Info.: J021014,TO15,,140-0000424-020
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 09:06:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 09:06:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.419	9.425	-0.006	94	258655	4.00	
* 2 1,4-Difluorobenzene	114	11.571	11.577	-0.006	94	1234224	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.229	16.235	-0.006	93	1045589	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.849	17.849	0.0	83	798096	3.83	

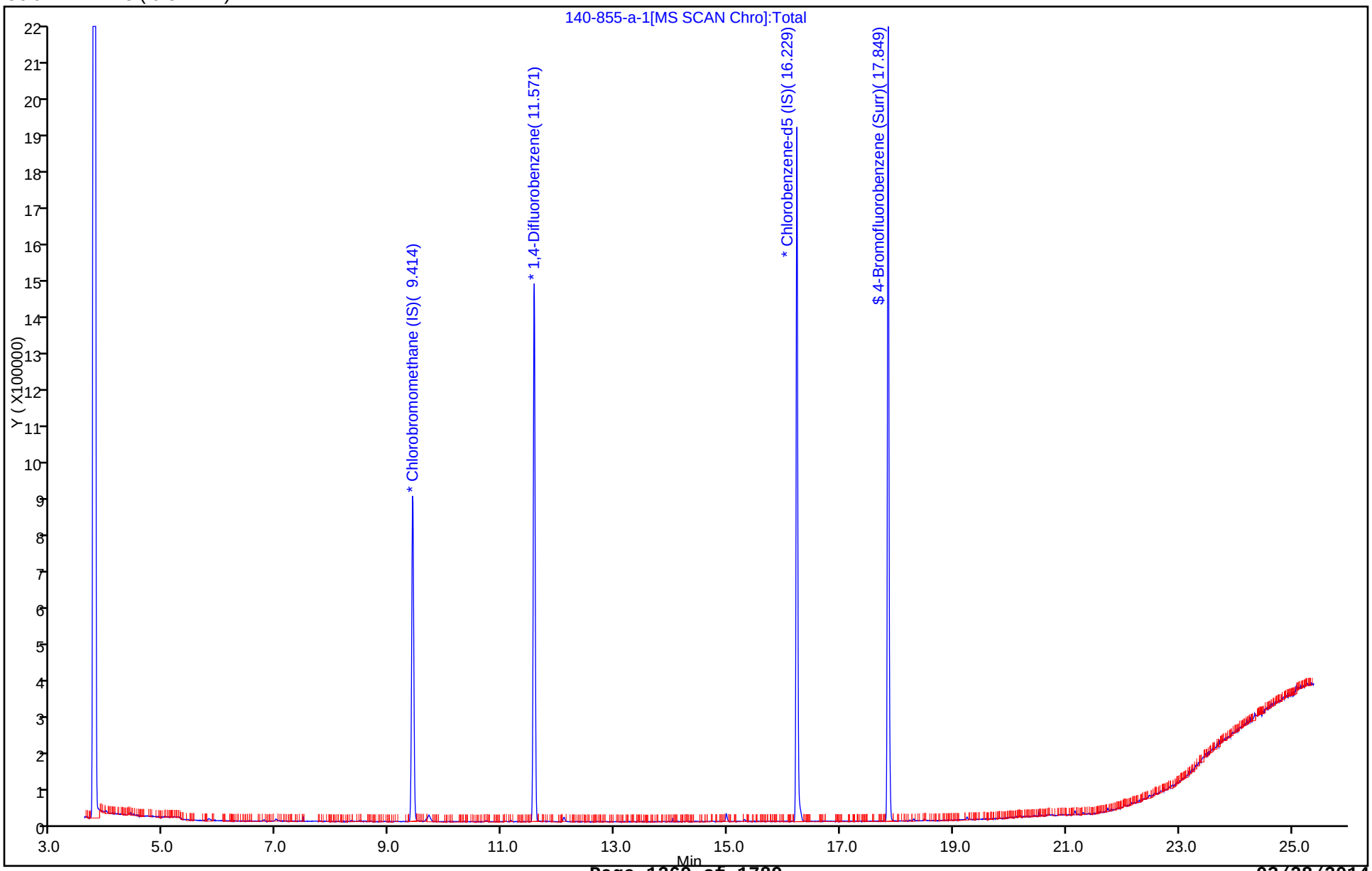
Report Date: 11-Feb-2014 09:06:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-1.D

Injection Date:	11-Feb-2014 04:15:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-855-A-1	Lab Sample ID:	140-855-1	Worklist Smp#:	20
Client ID:	09996				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10128 | Lab Sample ID: 140-855-2

Matrix: Air | Lab File ID: 140-855-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 05:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10128 | Lab Sample ID: 140-855-2

Matrix: Air | Lab File ID: 140-855-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 05:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10128 | Lab Sample ID: 140-855-2

Matrix: Air | Lab File ID: 140-855-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 05:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10128 Lab Sample ID: 140-855-2

Matrix: Air Lab File ID: 140-855-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 05:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-2.D
Lims ID: 140-855-A-2 Lab Sample ID: 140-855-2
Client ID: 10128
Sample Type: Client
Inject. Date: 11-Feb-2014 05:13:30 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10128
Misc. Info.: J021014,TO15,,140-0000424-021
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 09:06:20 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 09:06:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.419	9.425	-0.006	94	267286	4.00	
*	2 1,4-Difluorobenzene	114	11.571	11.577	-0.006	97	1244606	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.230	16.235	-0.005	93	1041426	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.849	17.849	0.0	83	819753	3.95	

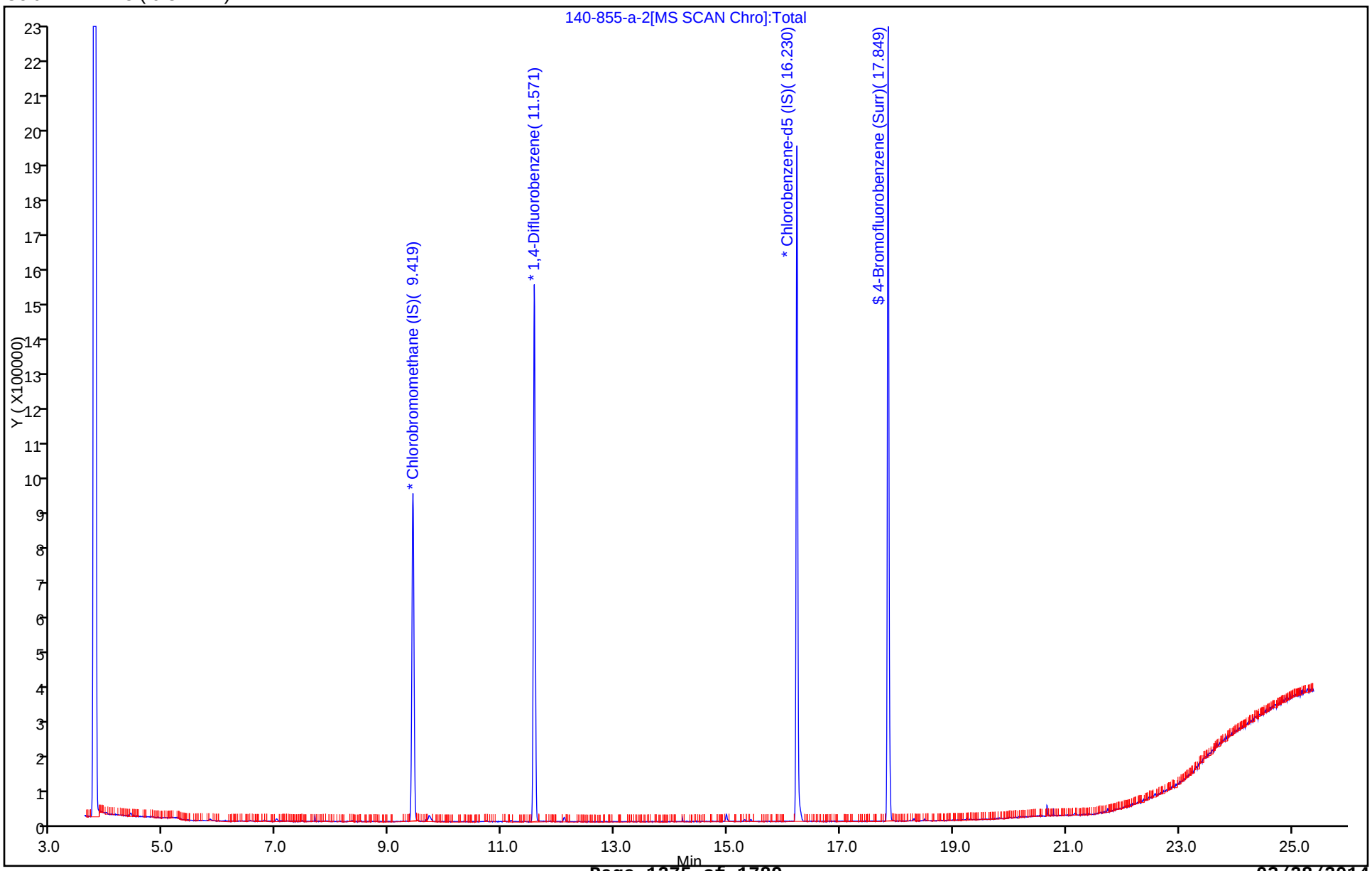
Report Date: 11-Feb-2014 09:06:21 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-2.D

Injection Date:	11-Feb-2014 05:13:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-855-A-2	Lab Sample ID:	140-855-2	Worklist Smp#:	21
Client ID:	10128				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-855-4

Matrix: Air | Lab File ID: 140-855-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 07:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-855-4

Matrix: Air | Lab File ID: 140-855-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 07:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 823 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	0.97		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10386 Lab Sample ID: 140-855-4

Matrix: Air Lab File ID: 140-855-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 07:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10386 Lab Sample ID: 140-855-4

Matrix: Air Lab File ID: 140-855-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 07:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D
Lims ID: 140-855-A-4 Lab Sample ID: 140-855-4
Client ID: 10386
Sample Type: Client
Inject. Date: 11-Feb-2014 07:59:30 ALS Bottle#: 12 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10386
Misc. Info.: J021014,TO15,,140-0000424-023
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 09:08:29 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 09:08:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.415	9.425	-0.010	93	257095	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.577	-0.011	94	1196314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.235	-0.005	93	1002440	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.849	-0.005	83	794117	3.97	
17 Ethanol	31	5.122	5.127	-0.005	95	25038	0.9749	
24 Isopropyl alcohol	45	5.870	5.864	0.006	65	10789	0.0725	
28 2-Methyl-2-propanol	59	6.515	6.493	0.022	47	4331	0.0280	
33 Carbon disulfide	76	6.956	6.961	-0.005	97	24738	0.0888	
47 n-Butanol	31	10.975	10.974	0.001	92	14629	0.3372	
98 4-Isopropyltoluene	119	19.367	19.372	-0.005	59	11517	0.0490	

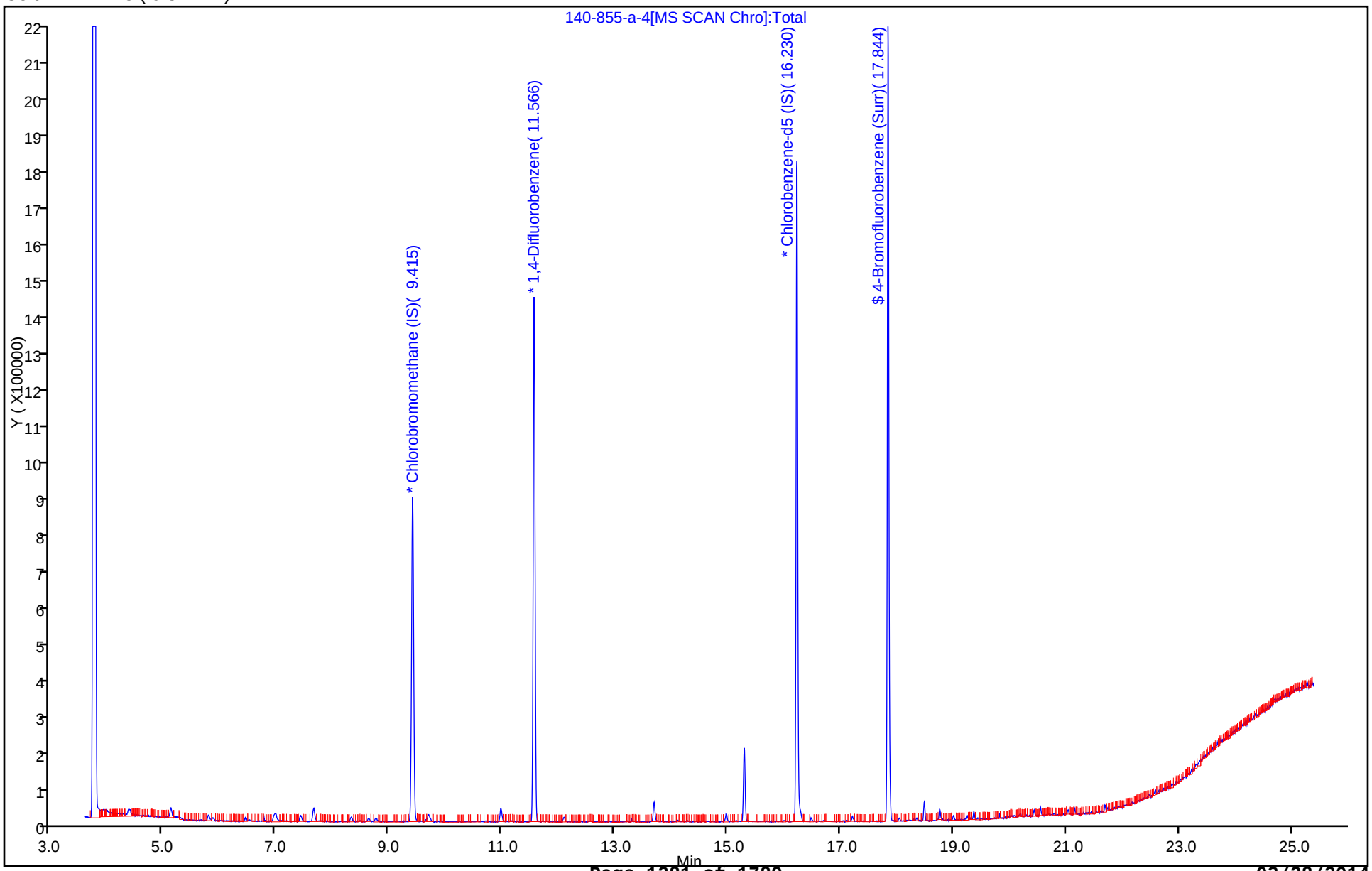
Report Date: 11-Feb-2014 09:08:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D

Injection Date:	11-Feb-2014 07:59:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-855-A-4	Lab Sample ID:	140-855-4	Worklist Smp#:	23
Client ID:	10386				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



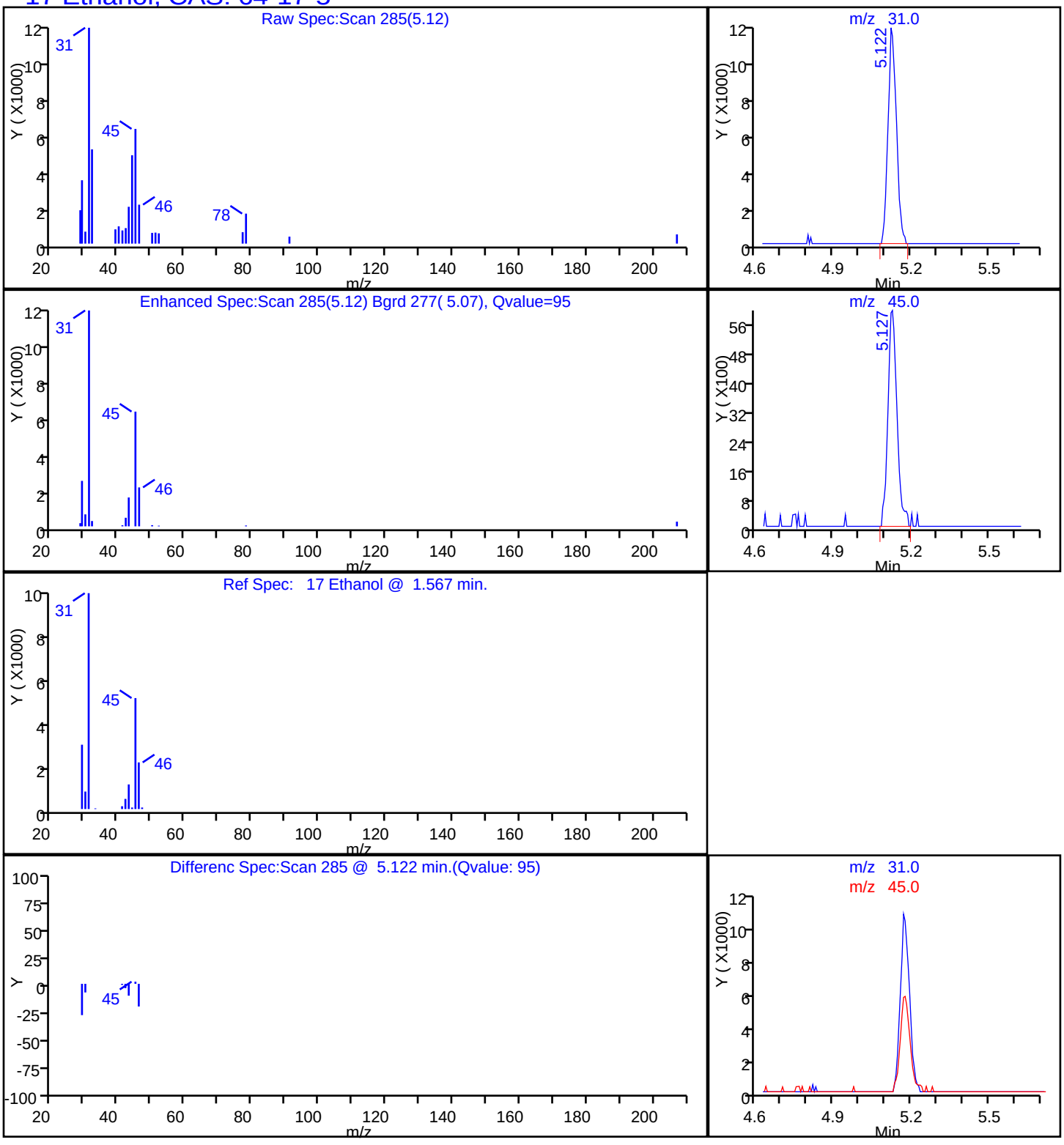
Report Date: 11-Feb-2014 09:08:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D

Injection Date:	11-Feb-2014 07:59:30	Instrument ID:	MJ		
Lims ID:	140-855-A-4	Lab Sample ID:	140-855-4		
Client ID:	10386				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10123 | Lab Sample ID: 140-855-7

Matrix: Air | Lab File ID: 140-855-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 12:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10123 | Lab Sample ID: 140-855-7

Matrix: Air | Lab File ID: 140-855-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 12:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10123 | Lab Sample ID: 140-855-7

Matrix: Air | Lab File ID: 140-855-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 12:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10123 Lab Sample ID: 140-855-7

Matrix: Air Lab File ID: 140-855-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 12:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-7.D				
Lims ID:	140-855-A-7	Lab Sample ID:	140-855-7		
Client ID:	10123				
Sample Type:	Client				
Inject. Date:	11-Feb-2014 12:11:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10123				
Misc. Info.:	E021114,TO155,,140-0000427-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	11-Feb-2014 16:19:05	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK053				
First Level Reviewer: tajh		Date:	11-Feb-2014 13:37:47		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	240232	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1100464	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	978282	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.037	0.001	86	842044	3.93	
20 Acrolein	56	4.781	4.770	0.011	78	2249	0.0885	
28 Acrylonitrile	53	5.563	5.568	-0.005	89	9945	0.2363	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	89	13046	0.1000	

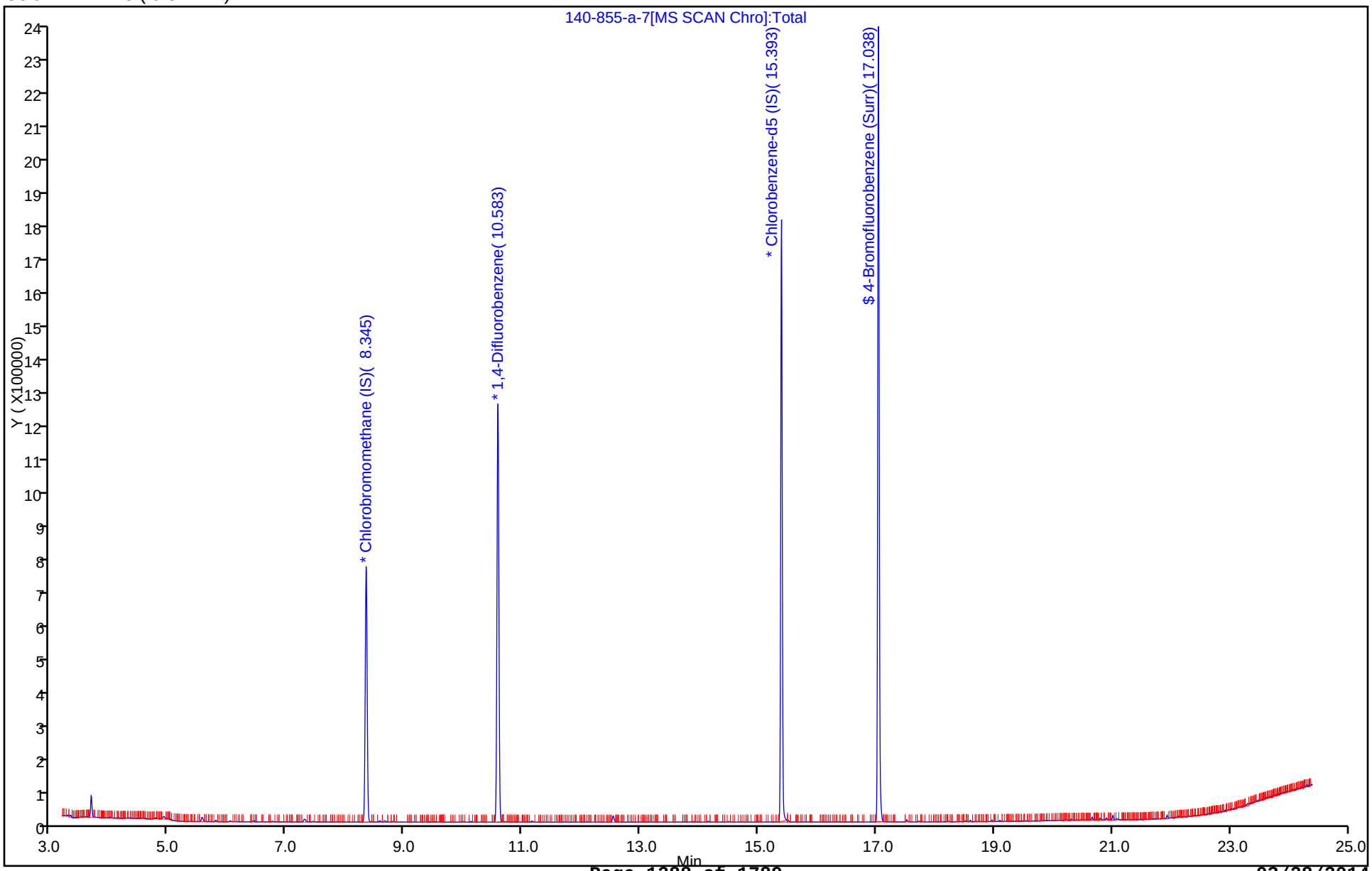
Report Date: 11-Feb-2014 16:31:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-7.D

Injection Date:	11-Feb-2014 12:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-855-A-7	Lab Sample ID:	140-855-7	Worklist Smp#:	4
Client ID:	10123				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10731 | Lab Sample ID: 140-855-8

Matrix: Air | Lab File ID: 140-855-a-8ARR.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10731 | Lab Sample ID: 140-855-8

Matrix: Air | Lab File ID: 140-855-a-8ARR.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10731 | Lab Sample ID: 140-855-8

Matrix: Air | Lab File ID: 140-855-a-8ARR.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10731 Lab Sample ID: 140-855-8

Matrix: Air Lab File ID: 140-855-a-8ARR.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 09:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-8ARR.D				
Lims ID:	140-855-A-8	Lab Sample ID:			
Client ID:	10731				
Sample Type:	Client				
Inject. Date:	12-Feb-2014 09:03:30	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10731				
Misc. Info.:	E021114,TO155,,140-0000427-009				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	12-Feb-2014 09:39:50	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: tajh		Date:	12-Feb-2014 09:39:50		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	231550	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.588	-0.010	95	1186018	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1000504	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.037	-0.005	85	864377	3.95	

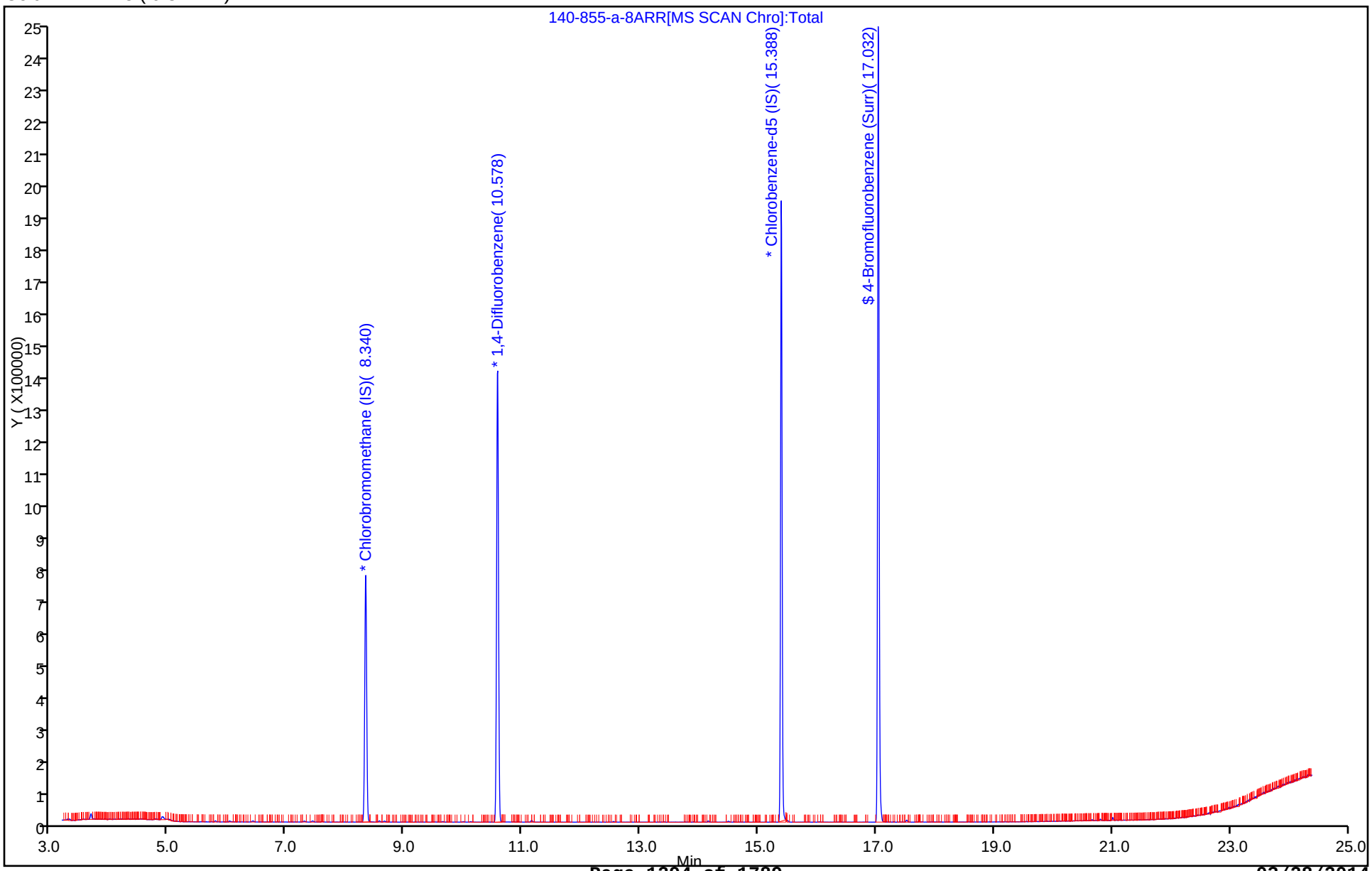
Report Date: 12-Feb-2014 11:23:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-8ARR.D

Injection Date:	12-Feb-2014 09:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-855-A-8	Lab Sample ID:		Worklist Smp#:	14
Client ID:	10731				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10273 | Lab Sample ID: 140-855-11

Matrix: Air | Lab File ID: 140-855-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 14:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10273 | Lab Sample ID: 140-855-11

Matrix: Air | Lab File ID: 140-855-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 14:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10273 | Lab Sample ID: 140-855-11

Matrix: Air | Lab File ID: 140-855-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 14:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 826 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10273 Lab Sample ID: 140-855-11

Matrix: Air Lab File ID: 140-855-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 14:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-11.D
Lims ID: 140-855-A-11 Lab Sample ID: 140-855-11
Client ID: 10273
Sample Type: Client
Inject. Date: 11-Feb-2014 14:30:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10273
Misc. Info.: E021114,TO155,,140-0000427-007
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 16:19:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: barlozhetskayaa Date: 11-Feb-2014 16:00:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	222813	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.588	-0.010	96	1096864	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	969242	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.037	0.001	85	839829	3.96	
9 Chloromethane	52	3.535	3.535	0.0	36	1260	0.0640	
29 2-Methyl-2-propanol	59	5.574	5.557	0.017	46	3357	0.0273	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	84	12304	0.0946	
65 Toluene	91	13.403	13.408	-0.005	90	27112	0.1044	

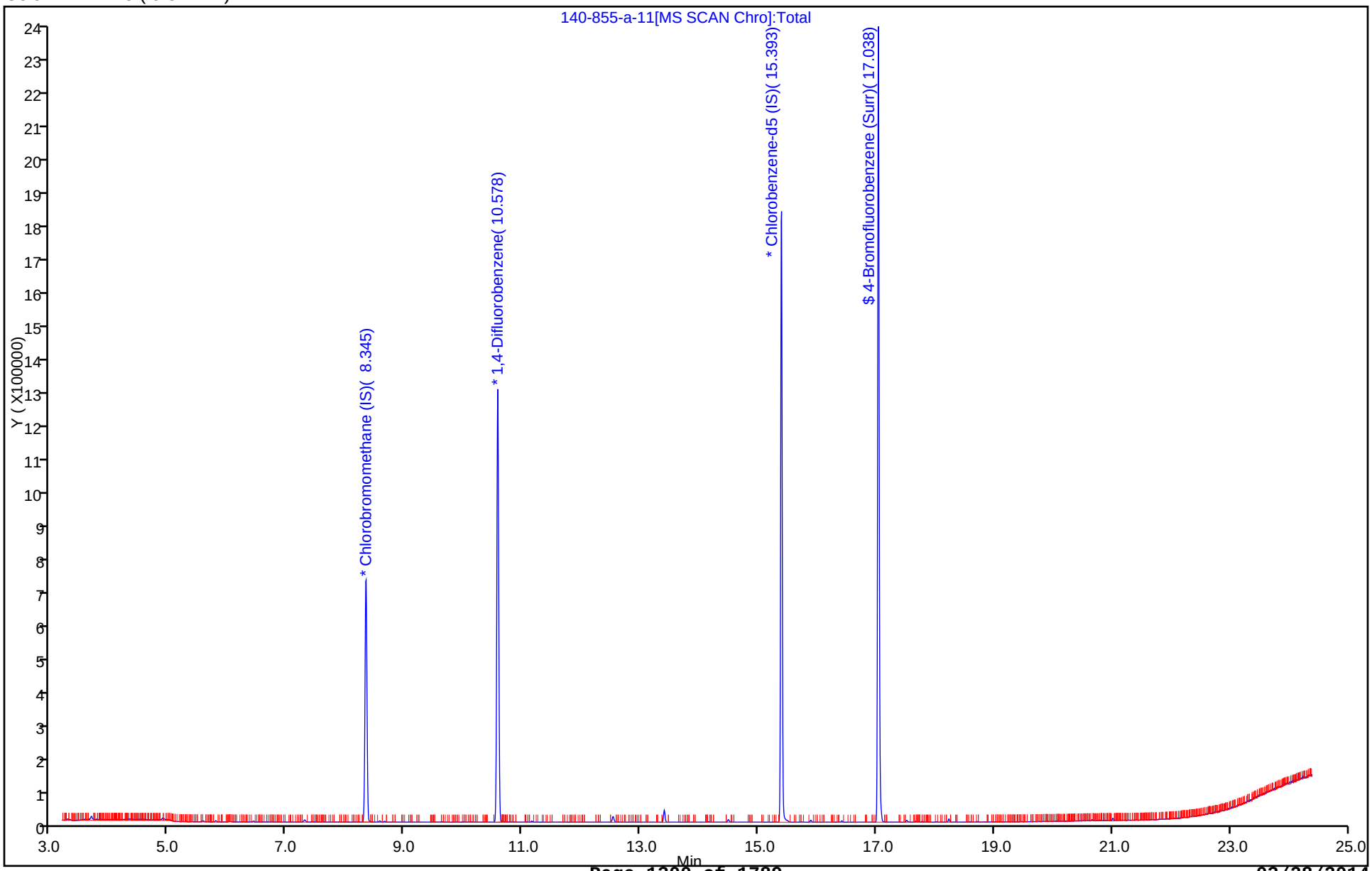
Report Date: 11-Feb-2014 16:19:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-11.D

Injection Date:	11-Feb-2014 14:30:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-855-A-11	Lab Sample ID:	140-855-11	Worklist Smp#:	7
Client ID:	10273				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10105 Lab Sample ID: 140-855-13

Matrix: Air Lab File ID: 140-855-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 10105 | Lab Sample ID: 140-855-13

Matrix: Air | Lab File ID: 140-855-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10105 Lab Sample ID: 140-855-13

Matrix: Air Lab File ID: 140-855-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 10105 Lab Sample ID: 140-855-13

Matrix: Air Lab File ID: 140-855-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 11-Feb-2014 07:24:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-13.D
Lims ID: 140-855-A-13 Lab Sample ID: 140-855-13
Client ID: 10105
Sample Type: Client
Inject. Date: 11-Feb-2014 04:11:30 ALS Bottle#: 6 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10105
Misc. Info.: E021014,TO155,,140-0000422-024
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:24:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:24:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	243203	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1208125	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	1039425	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	916691	4.03	

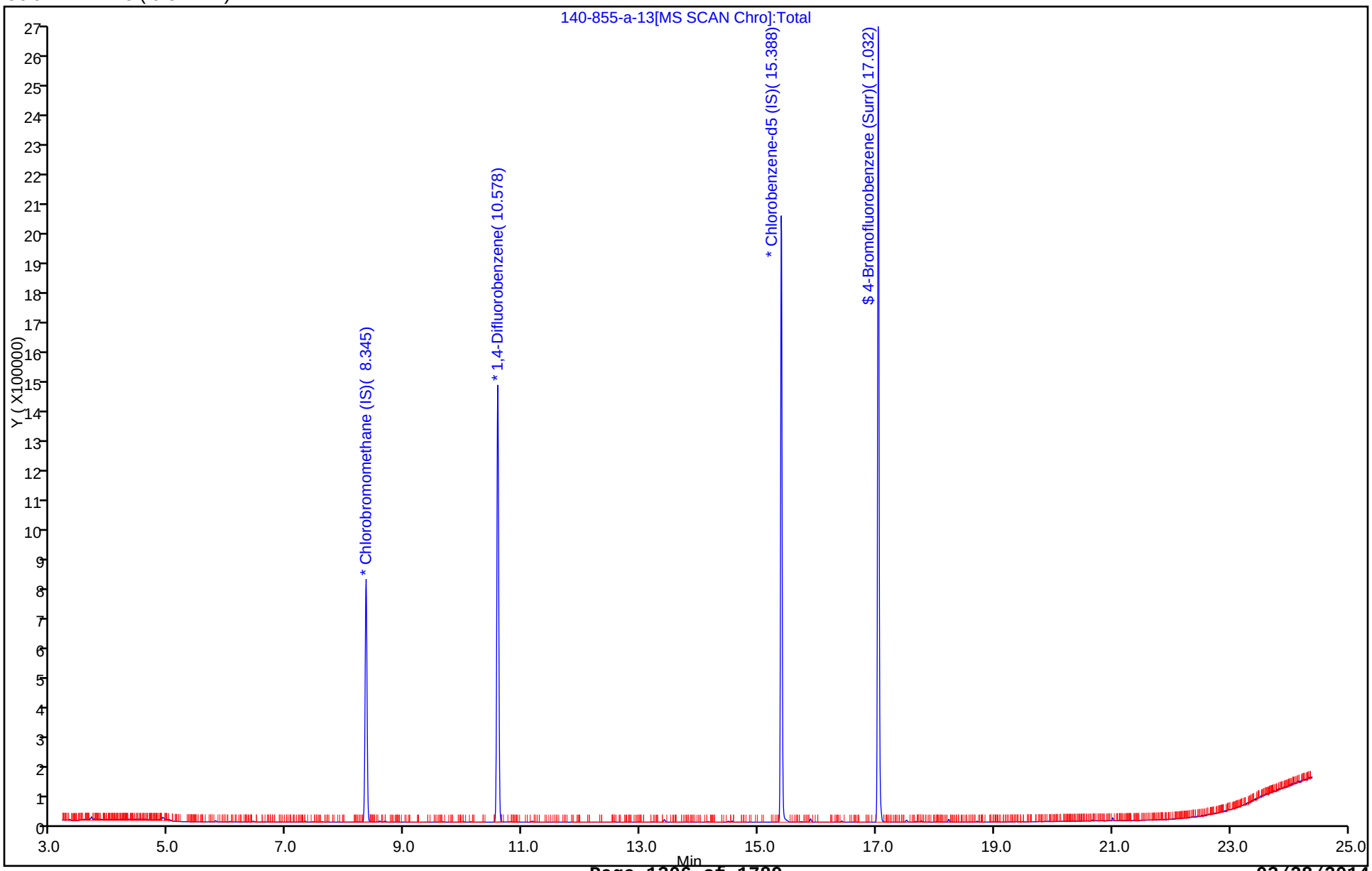
Report Date: 11-Feb-2014 07:24:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-13.D

Injection Date:	11-Feb-2014 04:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-855-A-13	Lab Sample ID:	140-855-13	Worklist Smp#:	24
Client ID:	10105				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09723 | Lab Sample ID: 140-855-14

Matrix: Air | Lab File ID: 140-855-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 02:38

Soil Aliquot Vol: 500 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09723 | Lab Sample ID: 140-855-14

Matrix: Air | Lab File ID: 140-855-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 02:38

Soil Aliquot Vol: 500 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-855-1

SDG No.:

Client Sample ID: 09723 | Lab Sample ID: 140-855-14

Matrix: Air | Lab File ID: 140-855-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 02:38

Soil Aliquot Vol: 500 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1

SDG No.:

Client Sample ID: 09723 Lab Sample ID: 140-855-14

Matrix: Air Lab File ID: 140-855-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 02:38

Soil Aliquot Vol: 500 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-14.D
Lims ID: 140-855-A-14 Lab Sample ID: 140-855-14
Client ID: 09723
Sample Type: Client
Inject. Date: 11-Feb-2014 02:38:30 ALS Bottle#: 4 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09723
Misc. Info.: E021014,TO155,,140-0000422-022
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:23:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:23:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	224516	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1088308	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	91	969380	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	844822	3.98	

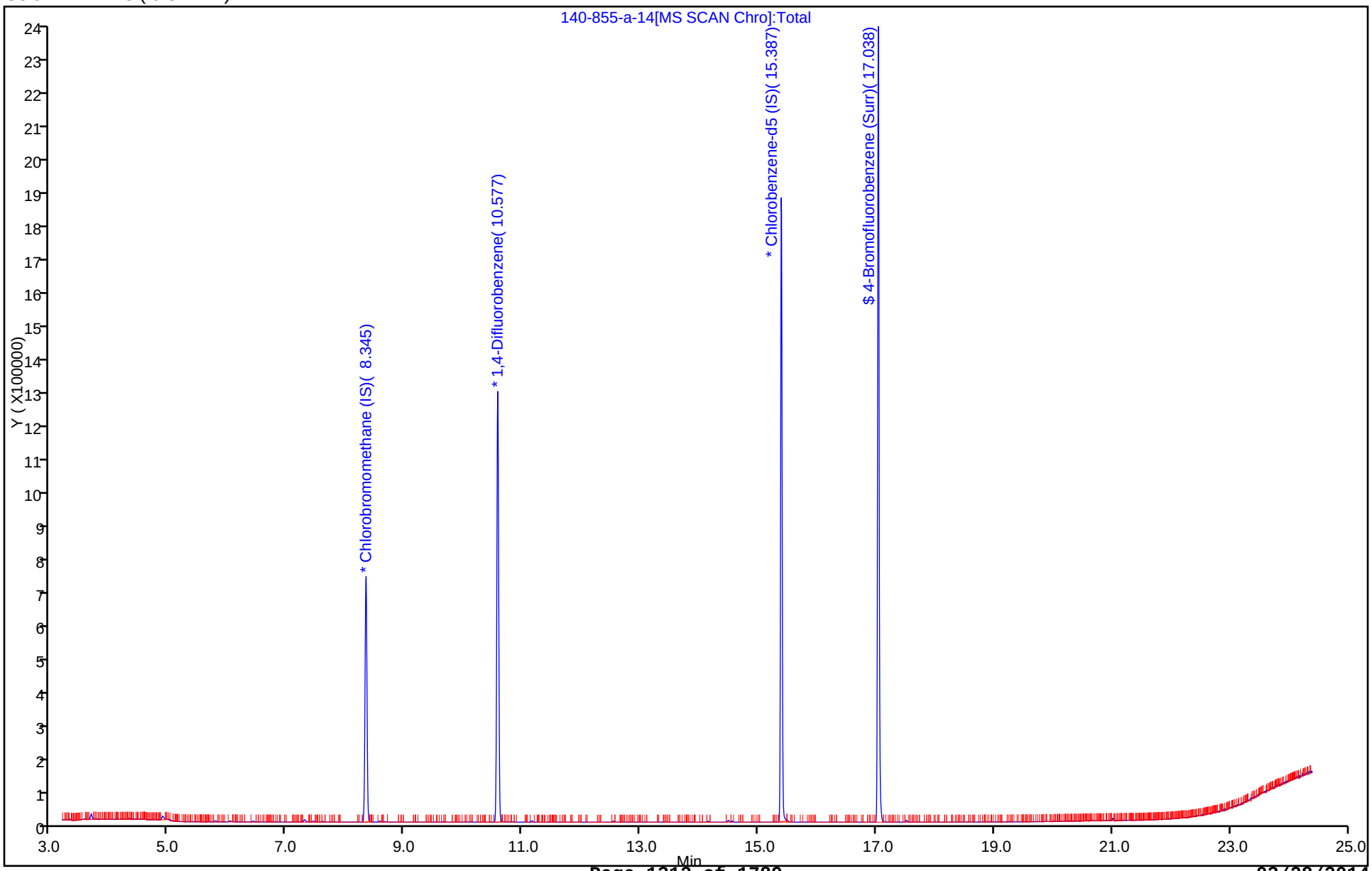
Report Date: 11-Feb-2014 07:23:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-14.D

Injection Date:	11-Feb-2014 02:38:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-855-A-14	Lab Sample ID:	140-855-14	Worklist Smp#:	22
Client ID:	09723				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-860-1

SDG No.:

Client Sample ID: 10262 | Lab Sample ID: 140-860-1

Matrix: Air | Lab File ID: 140-860-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/11/2014 09:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 08:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 825 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-860-1

SDG No.:

Client Sample ID: 10262 | Lab Sample ID: 140-860-1

Matrix: Air | Lab File ID: 140-860-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/11/2014 09:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 08:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 825 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-860-1

SDG No.:

Client Sample ID: 10262 Lab Sample ID: 140-860-1

Matrix: Air Lab File ID: 140-860-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/11/2014 09:50

Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 08:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 825 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-860-1

SDG No.:

Client Sample ID: 10262 Lab Sample ID: 140-860-1

Matrix: Air Lab File ID: 140-860-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/11/2014 09:50

Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 08:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 825 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140210-426.b\140-860-a-1.D
Lims ID: 140-860-A-1 Lab Sample ID: 140-860-1
Client ID: 10262
Sample Type: Client
Inject. Date: 12-Feb-2014 08:32:30 ALS Bottle#: 1 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10262
Misc. Info.: J021114,TO15,,140-0000426-021
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140210-426.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 12-Feb-2014 09:27:32 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: tajh Date: 12-Feb-2014 09:27:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.420	-0.013	94	262369	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.571	-0.007	97	1256432	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.228	16.230	-0.002	92	1032899	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.842	17.844	-0.002	81	817343	3.97	
37 1,1-Dichloroethane	63	8.057	8.064	-0.007	1	2431	0.0129	
40 Hexane	56	8.659	8.667	-0.007	62	1999	0.0203	
41 cis-1,2-Dichloroethene	96	9.073	9.075	-0.002	51	2692	0.0307	
53 Isooctane	57	11.795	11.792	0.003	69	10136	0.0206	
73 Tetrachloroethene	129	15.410	15.412	-0.002	59	2394	0.0260	
78 m-Xylene & p-Xylene	91	16.712	16.714	-0.002	78	10206	0.0499	
93 1,2,4-Trimethylbenzene	105	18.961	18.963	-0.002	65	9854	0.0439	

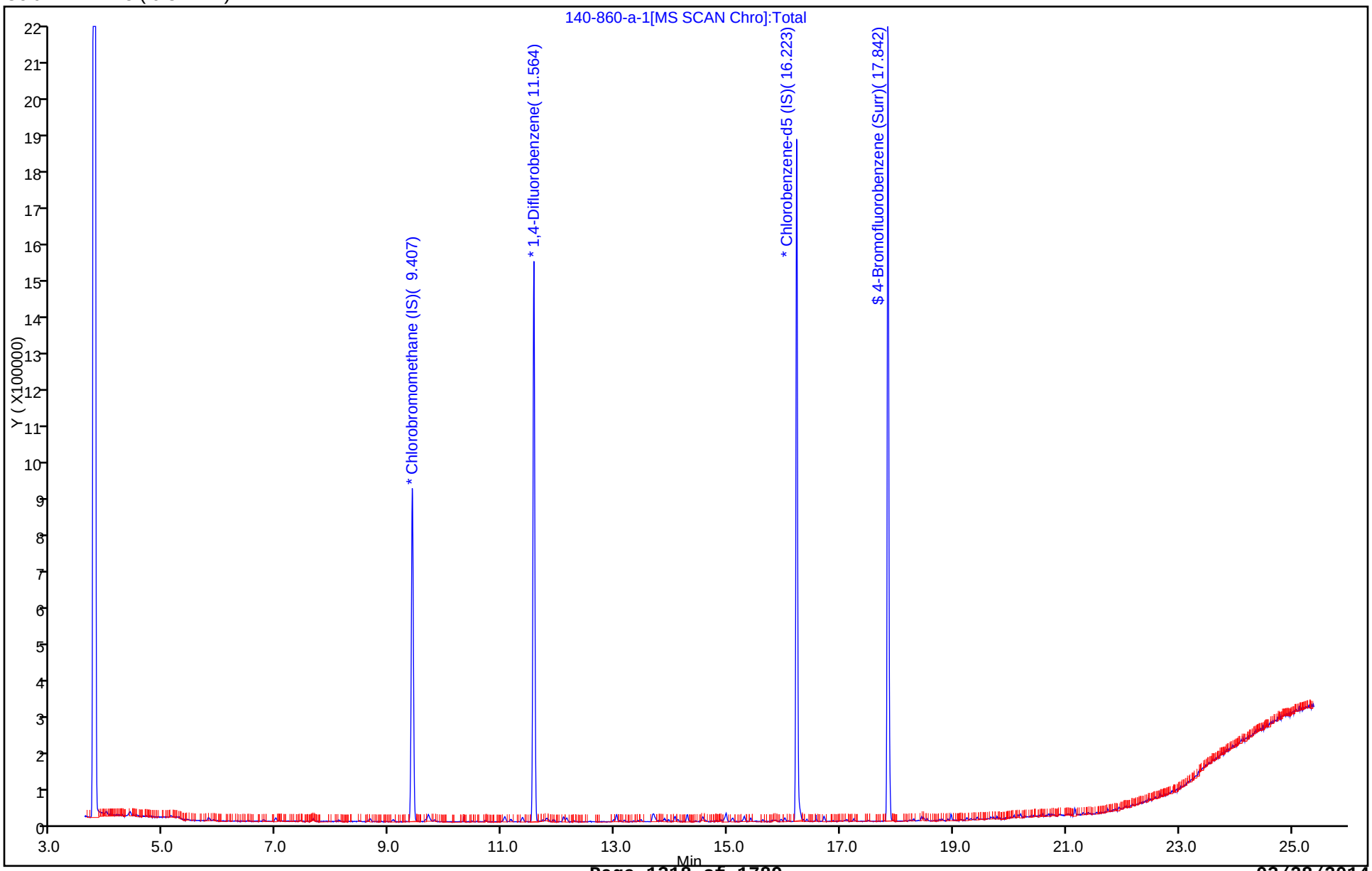
Report Date: 12-Feb-2014 09:27:33 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140210-426.b\140-860-a-1.D

Injection Date:	12-Feb-2014 08:32:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-860-A-1	Lab Sample ID:	140-860-1	Worklist Smp#:	21
Client ID:	10262				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-862-1

SDG No.:

Client Sample ID: 10580 | Lab Sample ID: 140-862-12

Matrix: Air | Lab File ID: 140-862-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/11/2014 11:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 825 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-862-1

SDG No.:

Client Sample ID: 10580 | Lab Sample ID: 140-862-12

Matrix: Air | Lab File ID: 140-862-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/11/2014 11:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 825 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-862-1

SDG No.:

Client Sample ID: 10580 | Lab Sample ID: 140-862-12

Matrix: Air | Lab File ID: 140-862-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/11/2014 11:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/12/2014 09:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 825 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-862-1

SDG No.:

Client Sample ID: 10580 Lab Sample ID: 140-862-12

Matrix: Air Lab File ID: 140-862-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/11/2014 11:20

Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 09:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 825 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140210-426.b\140-862-a-12.D				
Lims ID:	140-862-A-12	Lab Sample ID:	140-862-12		
Client ID:	10580				
Sample Type:	Client				
Inject. Date:	12-Feb-2014 09:29:30	ALS Bottle#:	2	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10580				
Misc. Info.:	J021114,TO15,,140-0000426-022				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140210-426.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	12-Feb-2014 10:04:06	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK013				
First Level Reviewer: tajh		Date:	12-Feb-2014 10:04:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.420	-0.008	94	257156	4.00	
* 2 1,4-Difluorobenzene	114	11.569	11.571	-0.002	97	1226857	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.228	16.230	-0.002	92	993751	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.847	17.844	0.003	82	776541	3.92	

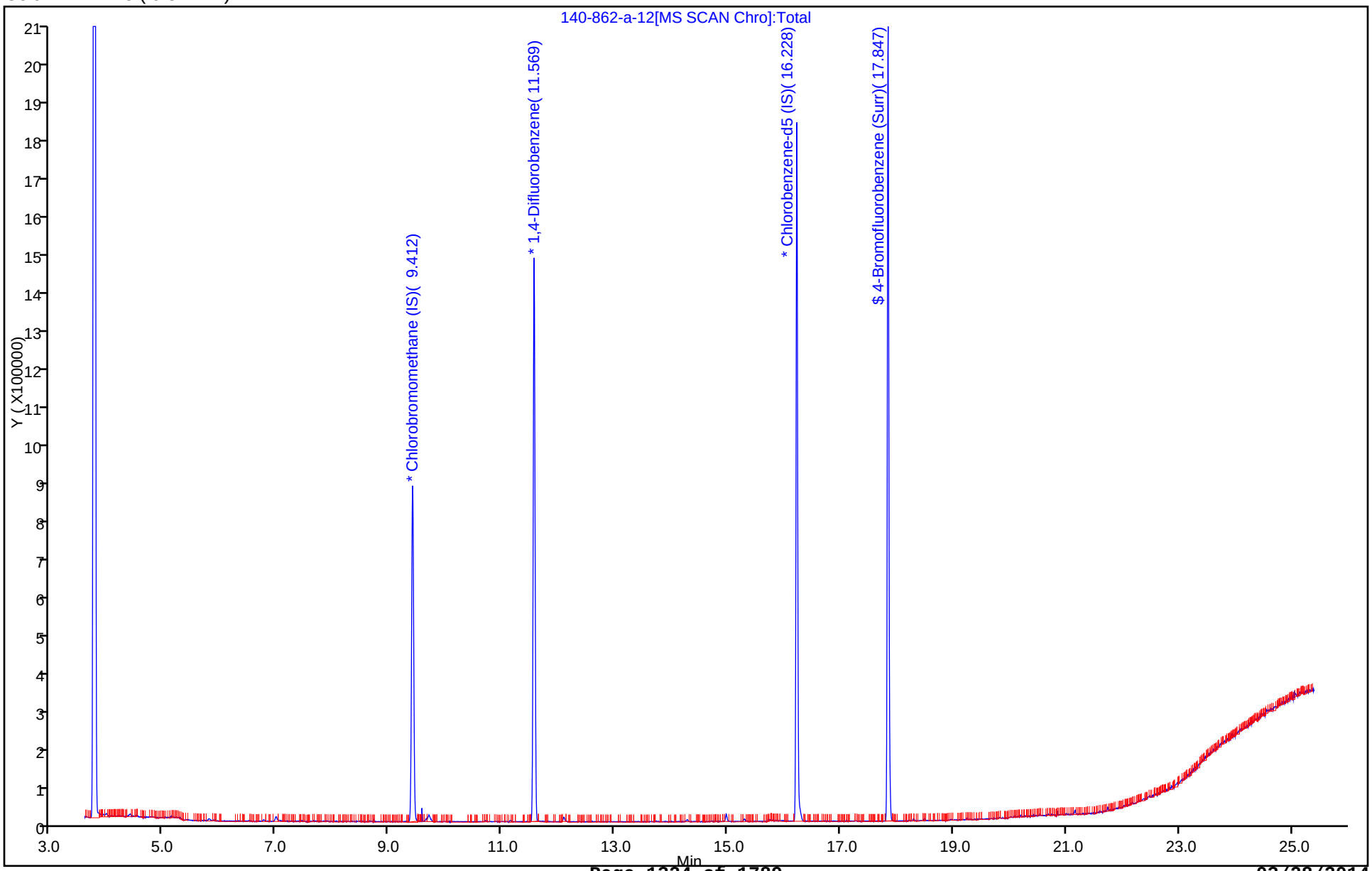
Report Date: 12-Feb-2014 10:04:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140210-426.b\140-862-a-12.D

Injection Date:	12-Feb-2014 09:29:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-862-A-12	Lab Sample ID:	140-862-12	Worklist Smp#:	22
Client ID:	10580				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 | Lab Sample ID: 140-874-1

Matrix: Air | Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	0.087		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 | Lab Sample ID: 140-874-1

Matrix: Air | Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	0.31		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	1.3		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 | Lab Sample ID: 140-874-1

Matrix: Air | Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 Lab Sample ID: 140-874-1

Matrix: Air Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D
Lims ID: 140-874-A-1 Lab Sample ID: 140-874-1
Client ID: 09991
Sample Type: Client
Inject. Date: 16-Feb-2014 18:07:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09991
Misc. Info.: E021614,TO155,,140-0000438-008
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:38:49 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:38:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	239026	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1141900	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	998911	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	856309	3.91	
6 Chlorodifluoromethane	67	3.298	3.303	-0.005	75	1641	0.0490	
7 Propene	41	3.319	3.314	0.005	51	6268	0.1042	
14 Butane	43	3.772	3.778	-0.006	90	35087	0.3070	
17 Ethanol	31	4.301	4.317	-0.016	98	30227	1.26	
19 2-Methylbutane	43	4.538	4.543	-0.005	79	4493	0.0537	
21 Trichlorofluoromethane	101	4.748	4.754	-0.006	90	14496	0.0547	
23 Acetone	58	4.878	4.883	-0.005	93	27782	0.7674	
25 Pentane	72	4.959	4.964	-0.005	91	2095	0.1335	
24 Isopropyl alcohol	45	4.969	4.969	0.0	15	4534	0.0486	
31 Methylene Chloride	84	5.784	5.794	-0.010	83	12911	0.1890	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	93	3361	0.0859	
40 Hexane	56	7.596	7.590	0.006	46	1527	0.0240	
44 Tetrahydrofuran	42	8.777	8.760	0.016	75	5902	0.0963	
48 Benzene	78	9.990	10.000	-0.010	60	6452	0.0281	
59 1,4-Dioxane	88	11.586	11.570	0.016	60	2640	0.0866	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	84	9592	0.0709	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	88	17013	0.0868	

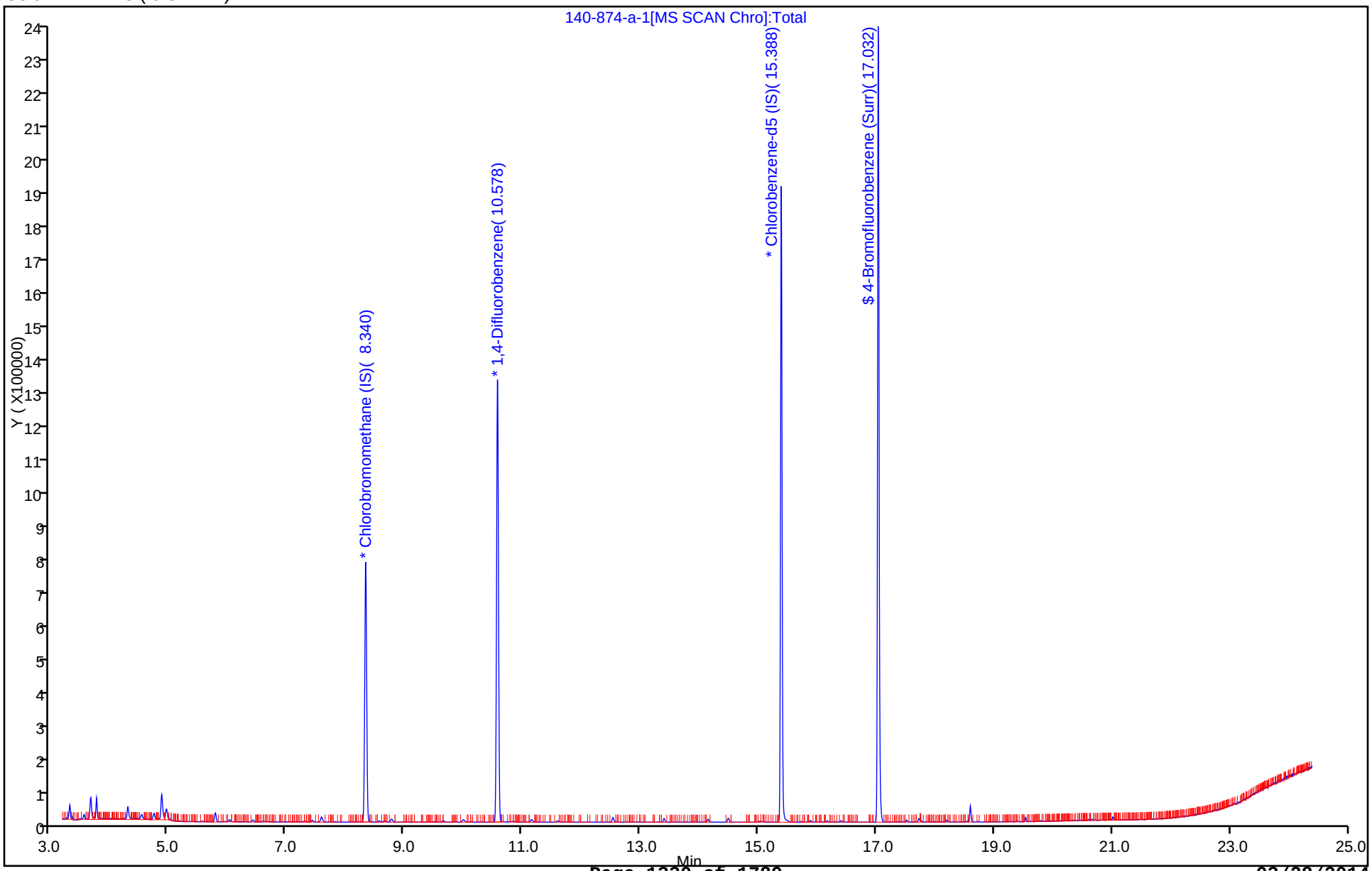
Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1	Worklist Smp#:	8
Client ID:	09991				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



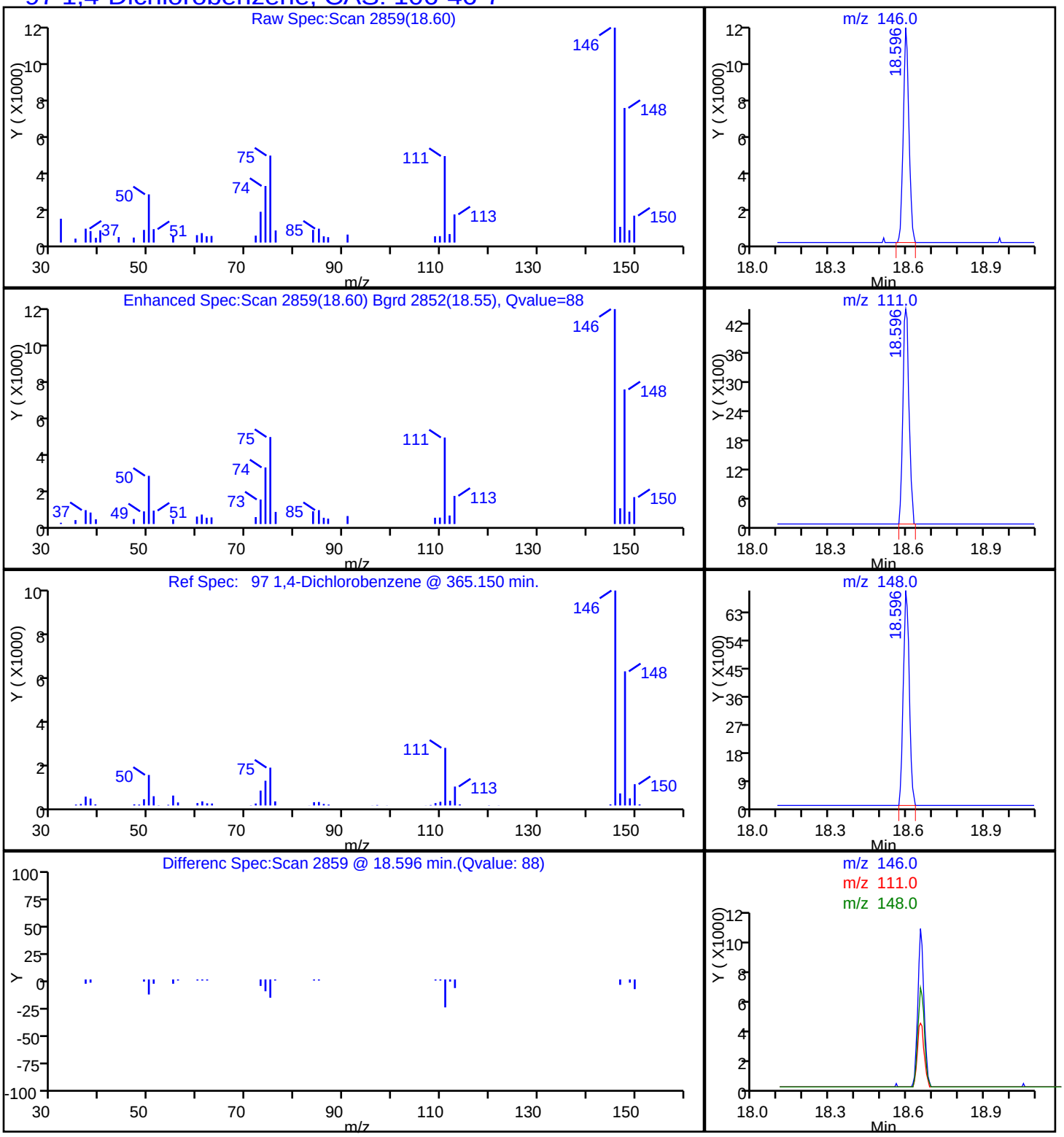
Report Date: 17-Feb-2014 07:38:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

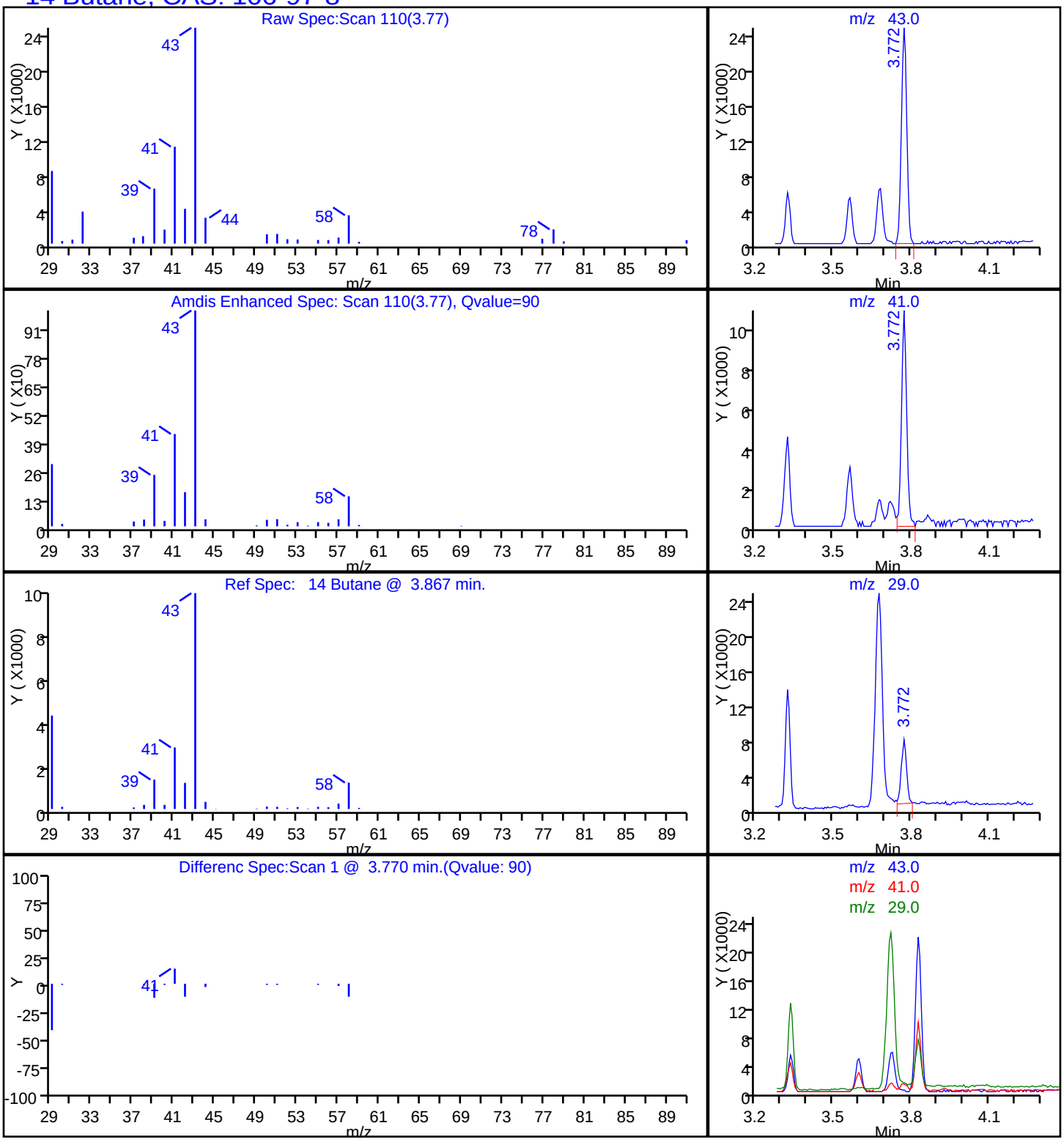


Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D				
Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butane, CAS: 106-97-8

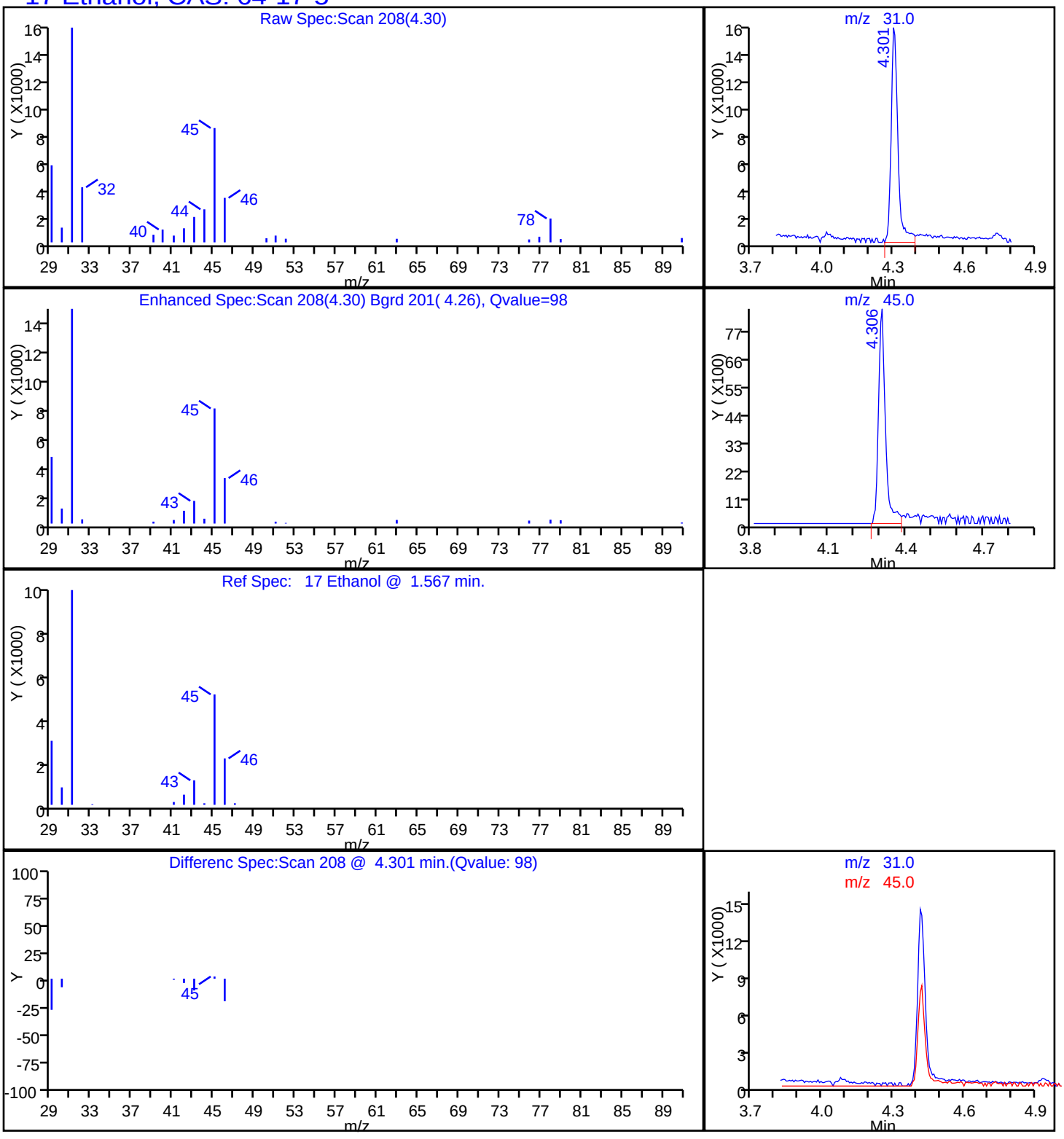


Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D				
Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 Lab Sample ID: 140-874-2

Matrix: Air Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D				
Lims ID:	140-874-A-2	Lab Sample ID:	140-874-2		
Client ID:	10885				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 18:52:30	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10885				
Misc. Info.:	E021614,TO155,,140-0000438-009				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:40:40	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:40:40		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	231329	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1148229	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	91	1038120	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	907537	3.99	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	64	2518	0.0185	

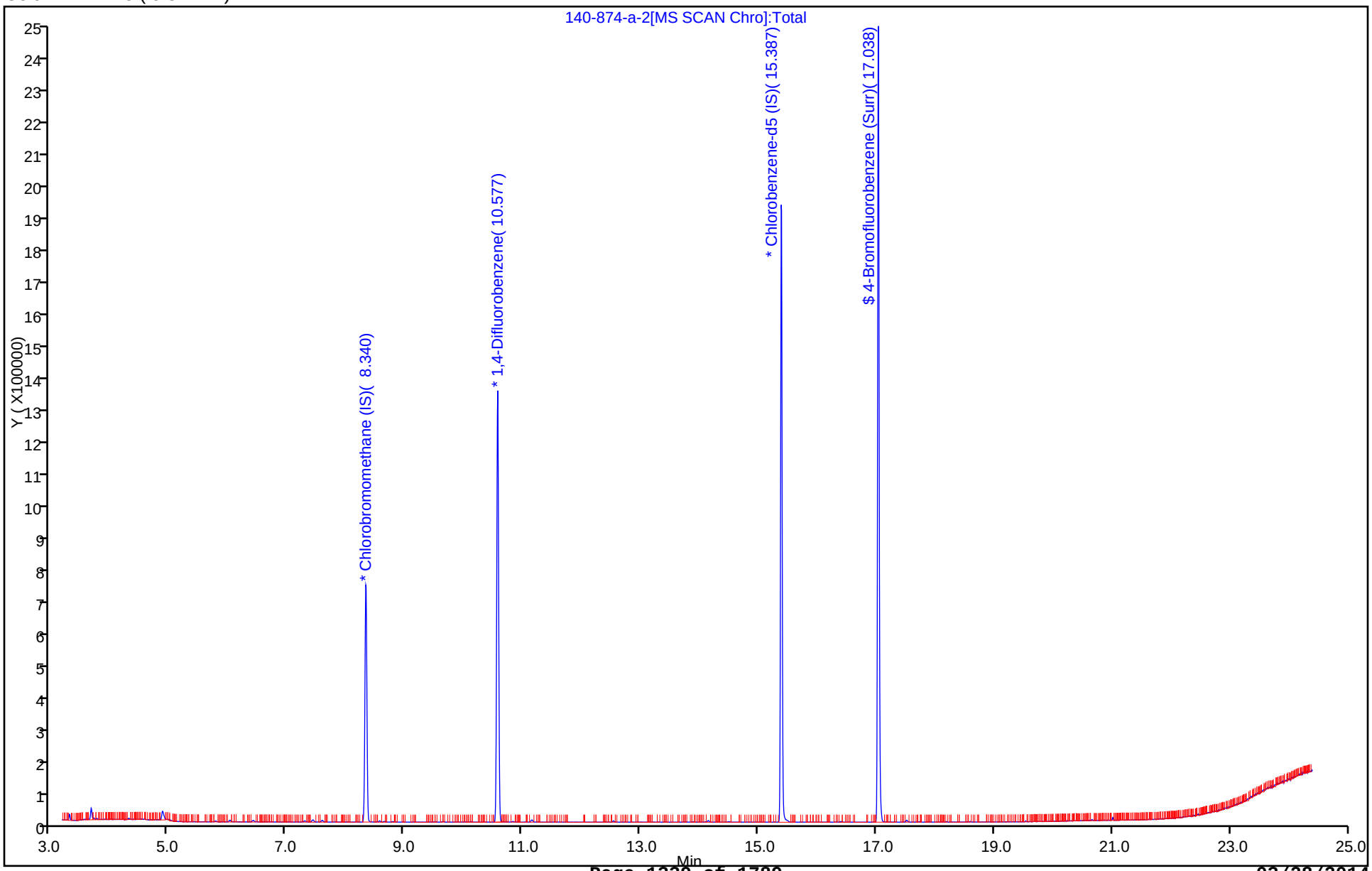
Report Date: 17-Feb-2014 07:40:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D

Injection Date:	16-Feb-2014 18:52:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-2	Lab Sample ID:	140-874-2	Worklist Smp#:	9
Client ID:	10885				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 Lab Sample ID: 140-874-4

Matrix: Air Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 | Lab Sample ID: 140-874-4

Matrix: Air | Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 | Lab Sample ID: 140-874-4

Matrix: Air | Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 Lab Sample ID: 140-874-4

Matrix: Air Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D
Lims ID: 140-874-A-4 Lab Sample ID: 140-874-4
Client ID: 09670
Sample Type: Client
Inject. Date: 16-Feb-2014 19:37:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09670
Misc. Info.: E021614,TO155,,140-0000438-010
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:41:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:41:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	209512	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1006358	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	915676	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	796227	3.97	
	7 Propene	41	3.320	3.314	0.006	78	2188	0.0415	
	14 Butane	43	3.778	3.778	0.0	75	5286	0.0528	
	44 Tetrahydrofuran	42	8.793	8.760	0.033	72	1511	0.0281	
	73 Tetrachloroethene	129	14.552	14.557	-0.005	75	2904	0.0278	

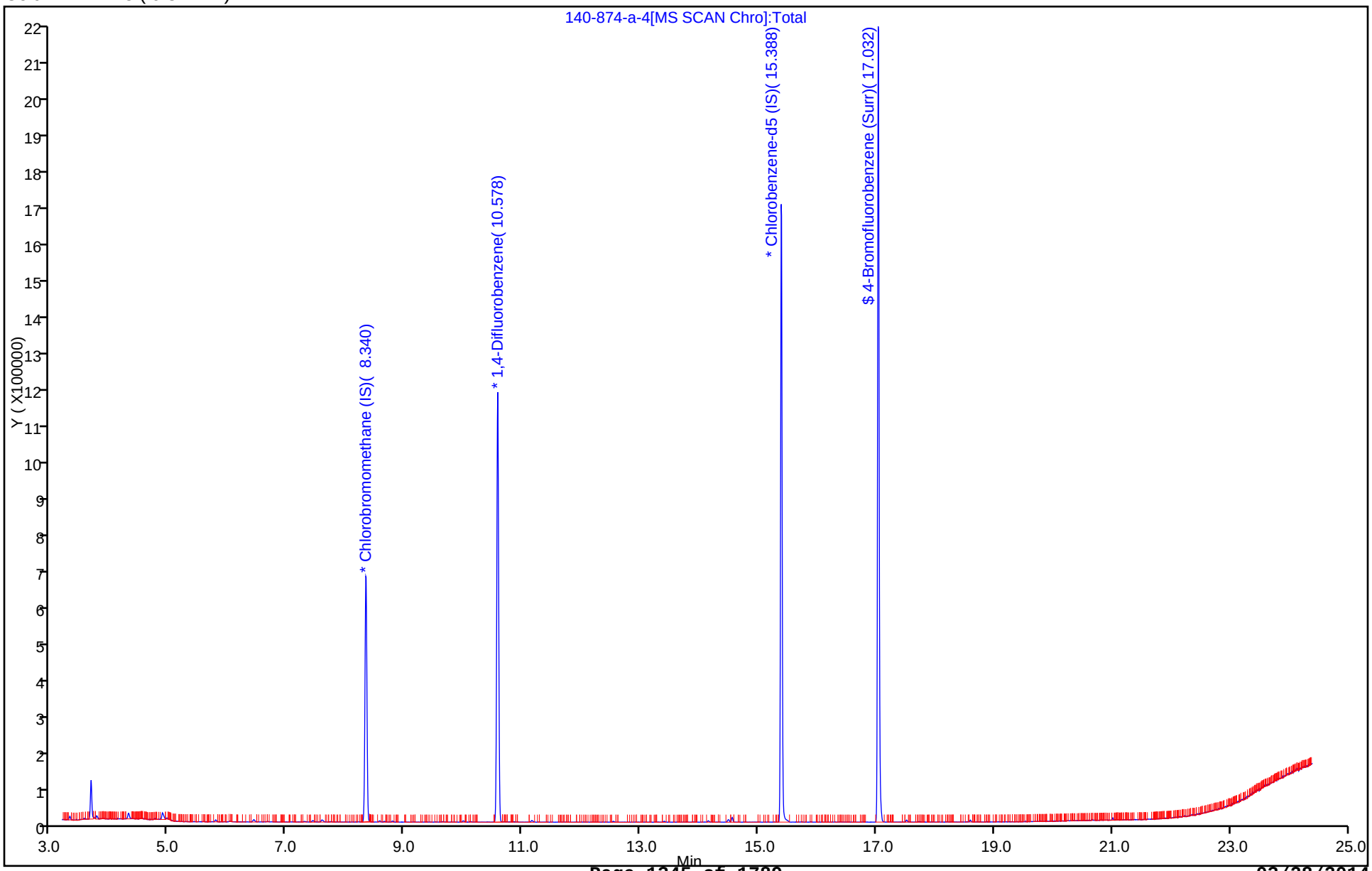
Report Date: 17-Feb-2014 07:41:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D

Injection Date:	16-Feb-2014 19:37:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-4	Lab Sample ID:	140-874-4	Worklist Smp#:	10
Client ID:	09670				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-874-5

Matrix: Air | Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-874-5

Matrix: Air | Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	0.14		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	0.95		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-874-5

Matrix: Air Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-874-5

Matrix: Air Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D
Lims ID: 140-874-A-5 Lab Sample ID: 140-874-5
Client ID: 10206
Sample Type: Client
Inject. Date: 16-Feb-2014 20:21:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10206
Misc. Info.: E021614,TO155,,140-0000438-011
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:42:19 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:42:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	236183	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1188120	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1035432	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	888915	3.92	
9 Chloromethane	52	3.530	3.535	-0.005	96	3384	0.1623	
14 Butane	43	3.681	3.778	-0.097	5	7281	0.0645	
17 Ethanol	31	4.306	4.317	-0.011	98	22441	0.9500	
44 Tetrahydrofuran	42	8.793	8.760	0.033	71	2301	0.0380	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	93	19550	0.0699	
82 o-Xylene	91	16.418	16.412	0.006	83	12072	0.0399	
89 1,3,5-Trimethylbenzene	120	17.782	17.782	0.0	77	4836	0.0279	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	97	43693	0.1375	

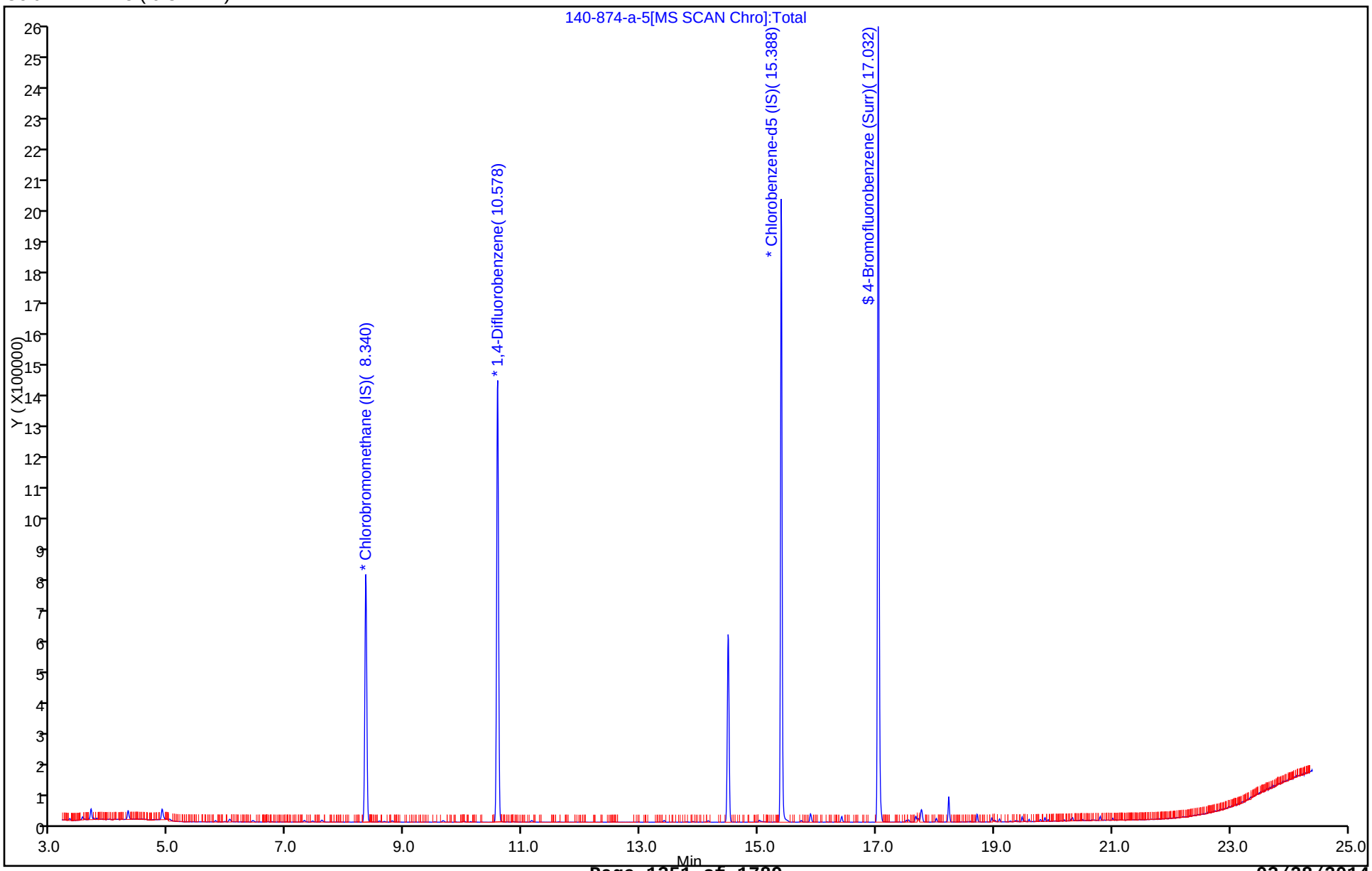
Report Date: 17-Feb-2014 07:42:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D

Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5	Worklist Smp#:	11
Client ID:	10206				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

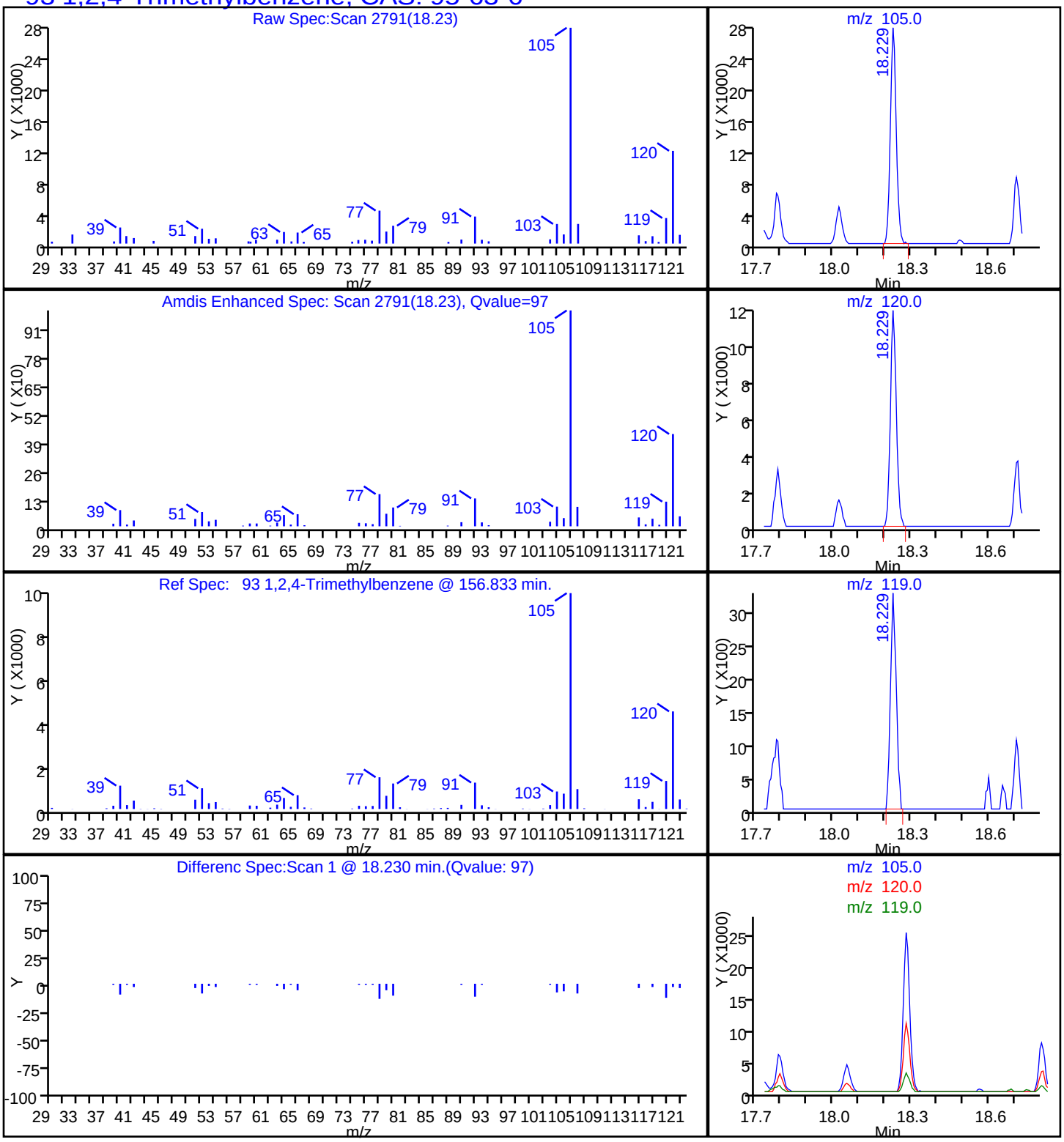


Report Date: 17-Feb-2014 07:42:21 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D				
Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME		
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5		
Client ID:	10206				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

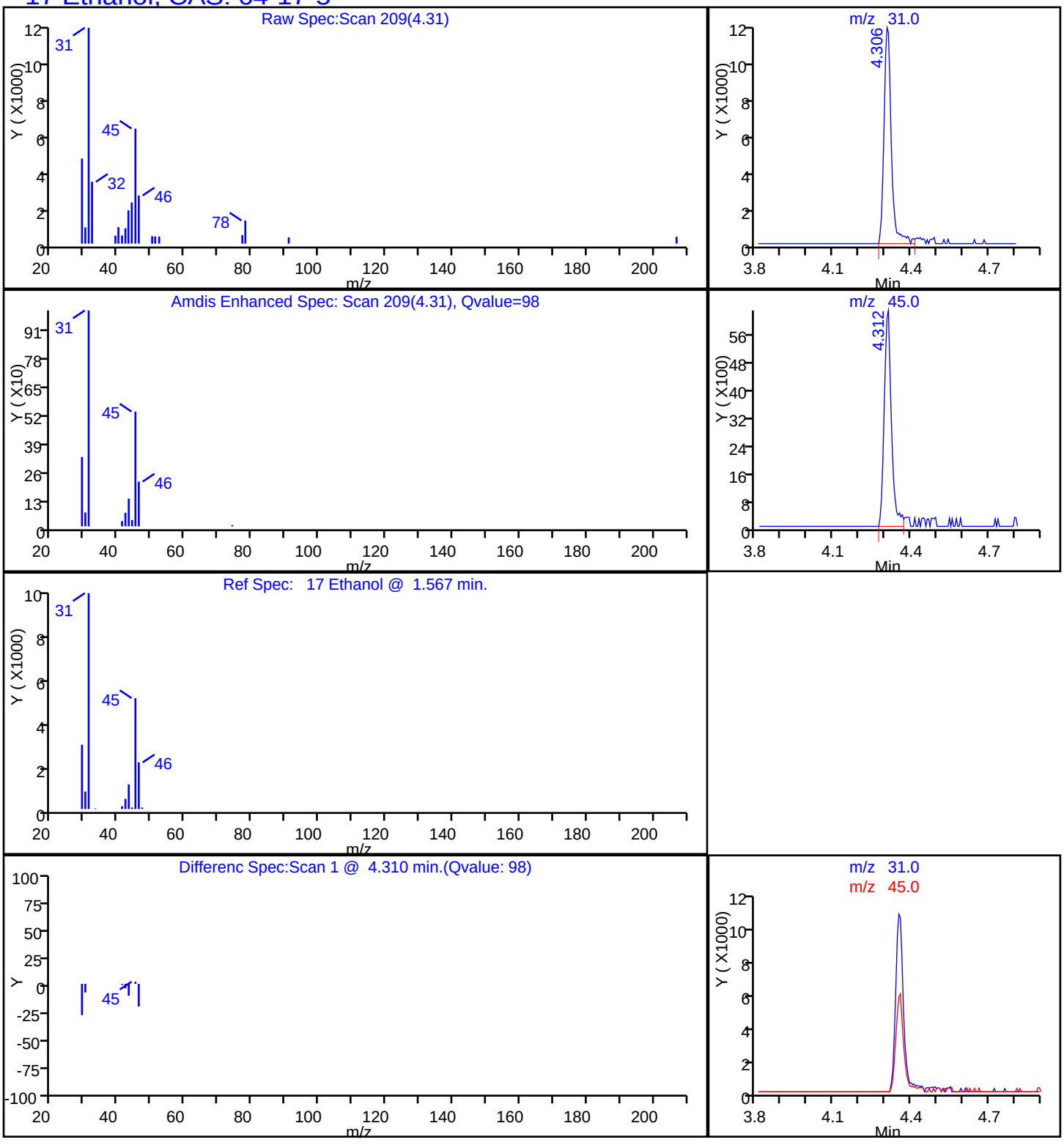


Report Date: 17-Feb-2014 07:42:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D				
Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME		
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5		
Client ID:	10206				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	17		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 Lab Sample ID: 140-874-6

Matrix: Air Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D
Lims ID: 140-874-A-6 Lab Sample ID: 140-874-6
Client ID: 10799
Sample Type: Client
Inject. Date: 16-Feb-2014 21:06:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10799
Misc. Info.: E021614,TO155,,140-0000438-012
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:51:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:51:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	235626	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1179987	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1022196	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.033	17.032	0.001	85	883790	3.95	
7 Propene	41	3.314	3.314	0.0	87	2152	0.0363	
17 Ethanol	31	4.312	4.317	-0.005	98	394242	16.7	
23 Acetone	58	4.883	4.883	0.0	100	21754	0.6095	
24 Isopropyl alcohol	45	4.970	4.969	0.001	48	5570	0.0606	
29 2-Methyl-2-propanol	59	5.579	5.552	0.027	66	4571	0.0351	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	4733	0.1227	
44 Tetrahydrofuran	42	8.782	8.760	0.022	75	1876	0.0310	
53 Isooctane	57	10.788	10.793	-0.005	94	49327	0.1346	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	80	7042	0.0504	
69 2-Hexanone	58	13.883	13.878	0.005	75	3370	0.0521	
98 4-Isopropyltoluene	119	18.656	18.655	0.001	68	11191	0.0313	

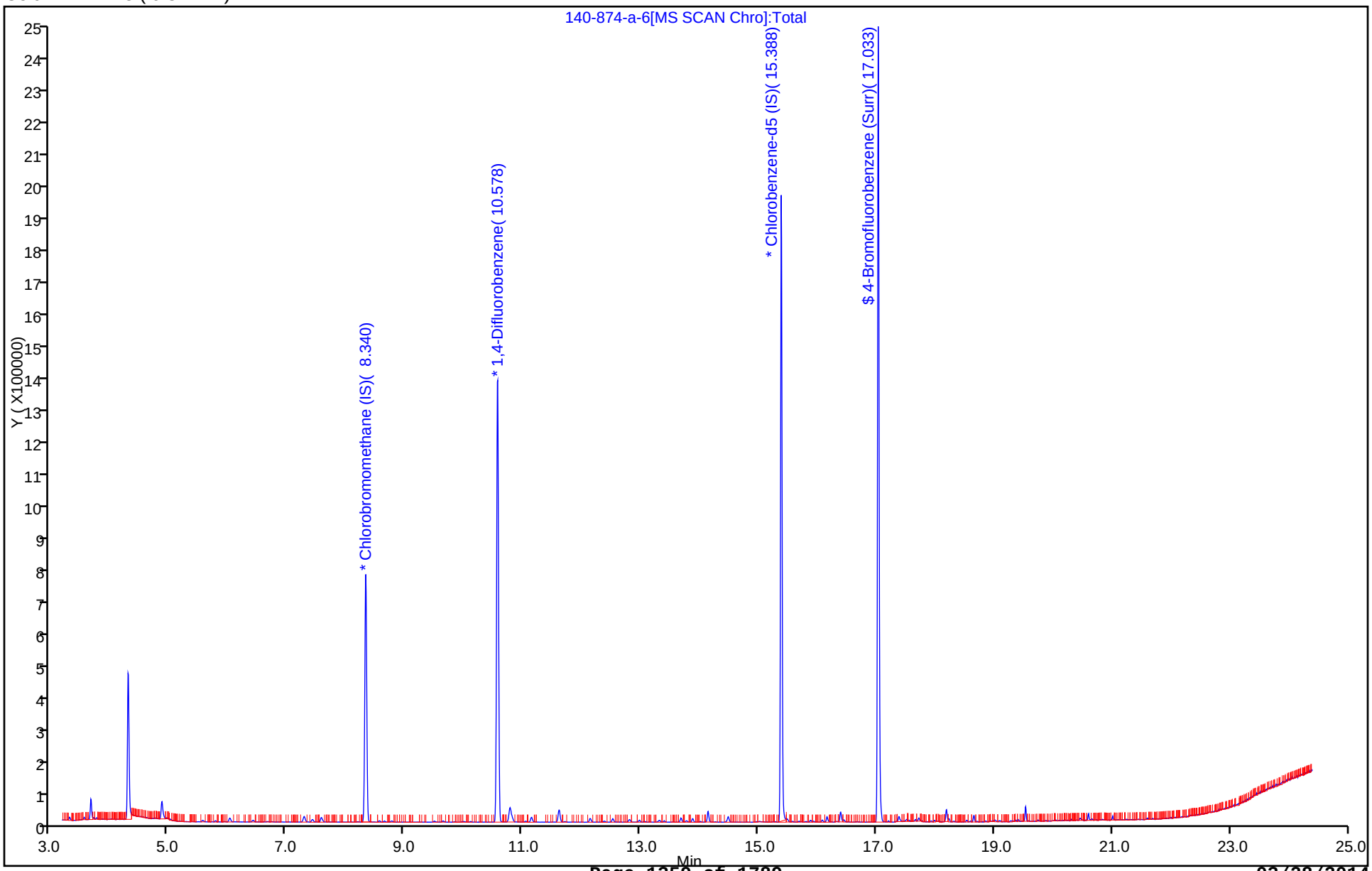
Report Date: 17-Feb-2014 07:51:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D

Injection Date:	16-Feb-2014 21:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-6	Lab Sample ID:	140-874-6	Worklist Smp#:	12
Client ID:	10799				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

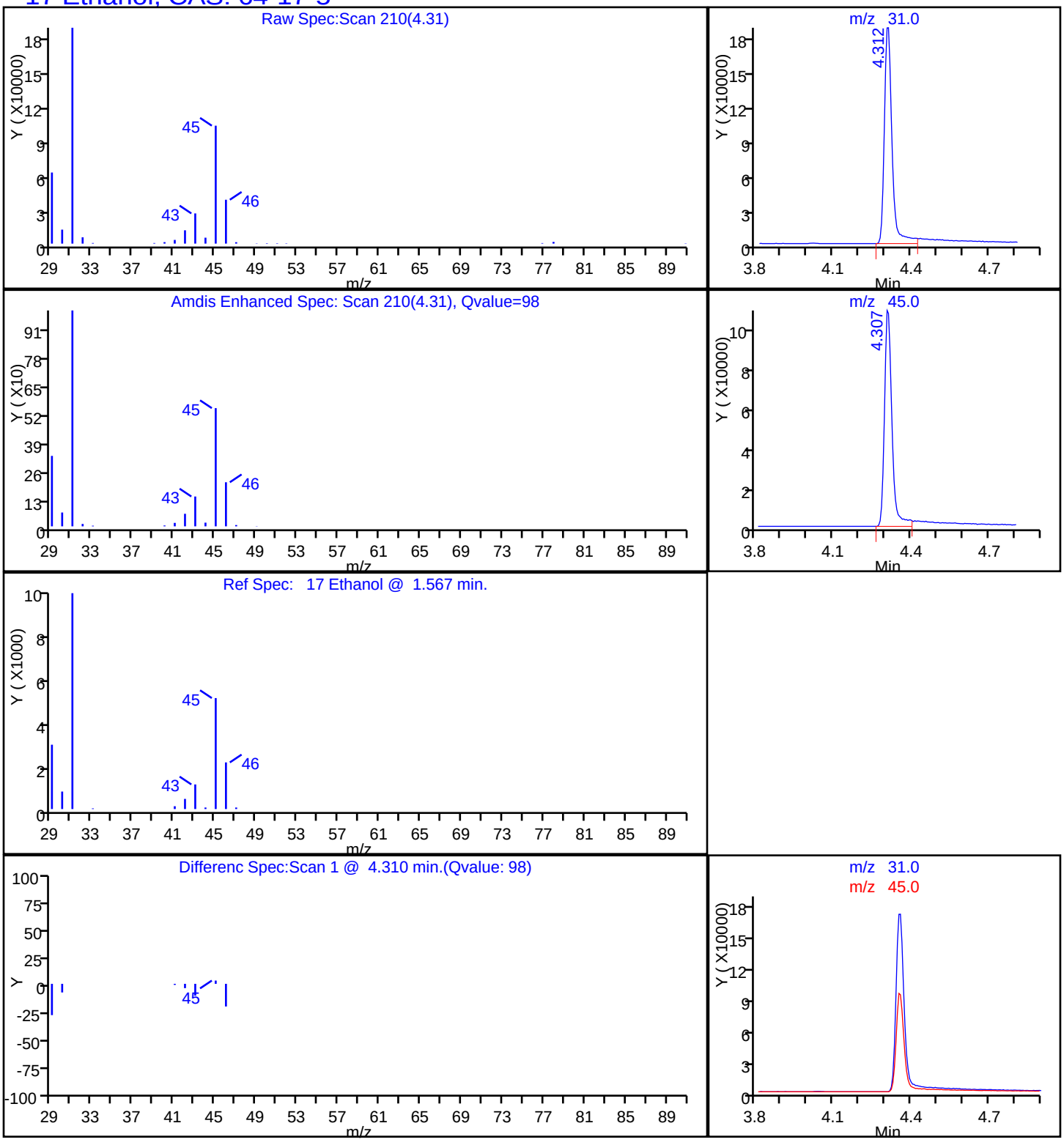


Report Date: 17-Feb-2014 07:51:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D				
Injection Date:	16-Feb-2014 21:06:30	Instrument ID:	ME		
Lims ID:	140-874-A-6	Lab Sample ID:	140-874-6		
Client ID:	10799				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 | Lab Sample ID: 140-874-7

Matrix: Air | Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 | Lab Sample ID: 140-874-7

Matrix: Air | Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 | Lab Sample ID: 140-874-7

Matrix: Air | Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 Lab Sample ID: 140-874-7

Matrix: Air Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D				
Lims ID:	140-874-A-7	Lab Sample ID:	140-874-7		
Client ID:	09824				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 21:51:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09824				
Misc. Info.:	E021614,TO155,,140-0000438-013				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:52:13	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:52:13		

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	220473	4.00	
*	2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1003954	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	889483	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	787231	4.04	

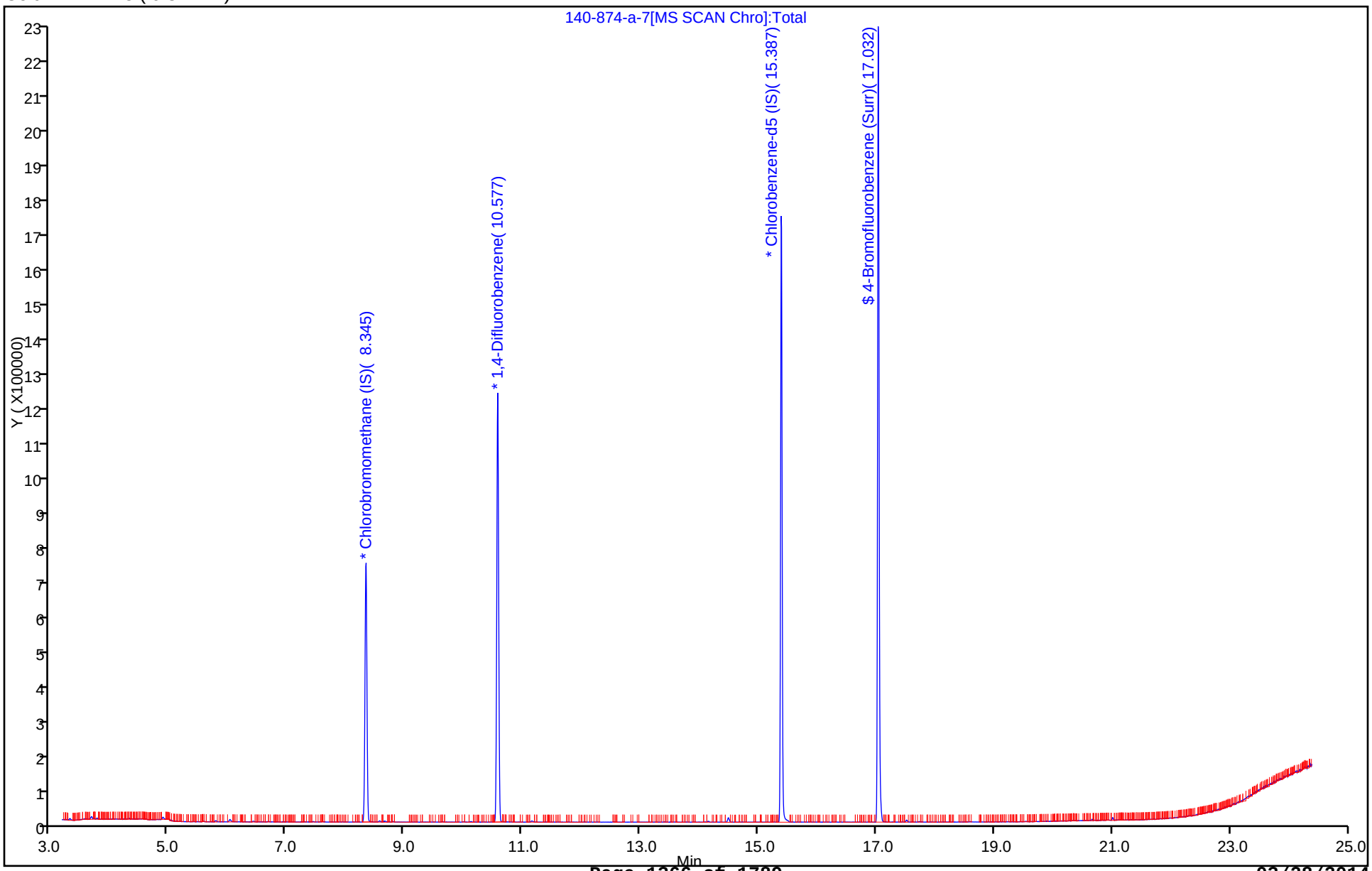
Report Date: 17-Feb-2014 07:52:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D

Injection Date:	16-Feb-2014 21:51:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-7	Lab Sample ID:	140-874-7	Worklist Smp#:	13
Client ID:	09824				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 | Lab Sample ID: 140-874-8

Matrix: Air | Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 | Lab Sample ID: 140-874-8

Matrix: Air | Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 Lab Sample ID: 140-874-8

Matrix: Air Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 Lab Sample ID: 140-874-8

Matrix: Air Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D
Lims ID: 140-874-A-8 Lab Sample ID: 140-874-8
Client ID: 09916
Sample Type: Client
Inject. Date: 16-Feb-2014 22:36:30 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09916
Misc. Info.: E021614,TO155,,140-0000438-014
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:52:42 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:52:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	229007	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1142533	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1009607	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	889551	4.02	
	44 Tetrahydrofuran	42	8.793	8.760	0.033	68	2251	0.0383	
	62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	74	4585	0.0339	

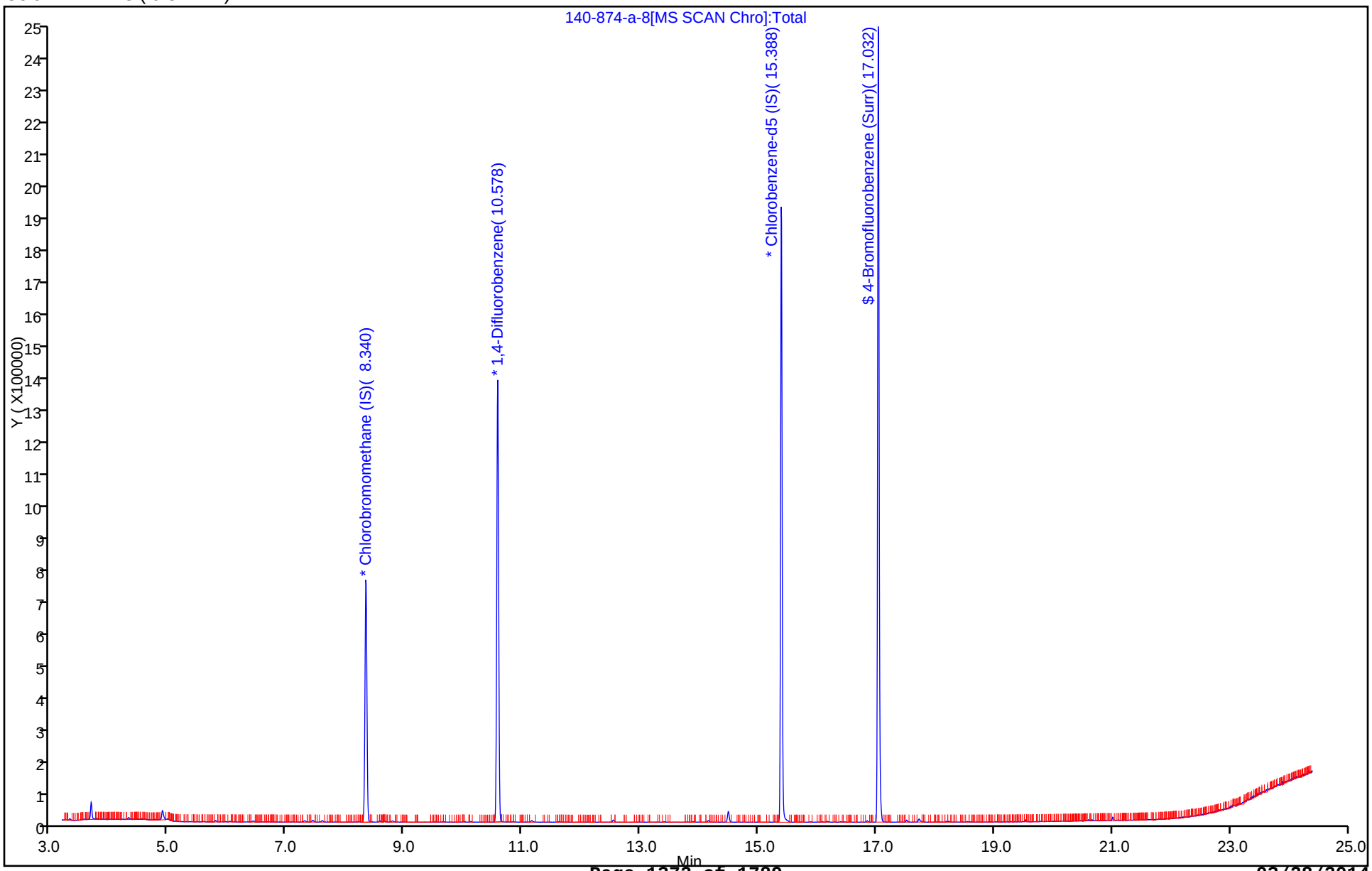
Report Date: 17-Feb-2014 07:52:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D

Injection Date:	16-Feb-2014 22:36:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-8	Lab Sample ID:	140-874-8	Worklist Smp#:	14
Client ID:	09916				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 | Lab Sample ID: 140-874-9

Matrix: Air | Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 | Lab Sample ID: 140-874-9

Matrix: Air | Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 Lab Sample ID: 140-874-9

Matrix: Air Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 Lab Sample ID: 140-874-9

Matrix: Air Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D				
Lims ID:	140-874-A-9	Lab Sample ID:	140-874-9		
Client ID:	10815				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 23:21:30	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10815				
Misc. Info.:	E021614,TO155,,140-0000438-015				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:53:13	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:53:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	211878	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1007012	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	934303	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	812938	3.97	
7 Propene	41	3.319	3.314	0.005	75	1766	0.0331	
14 Butane	43	3.772	3.778	-0.006	76	3136	0.0310	

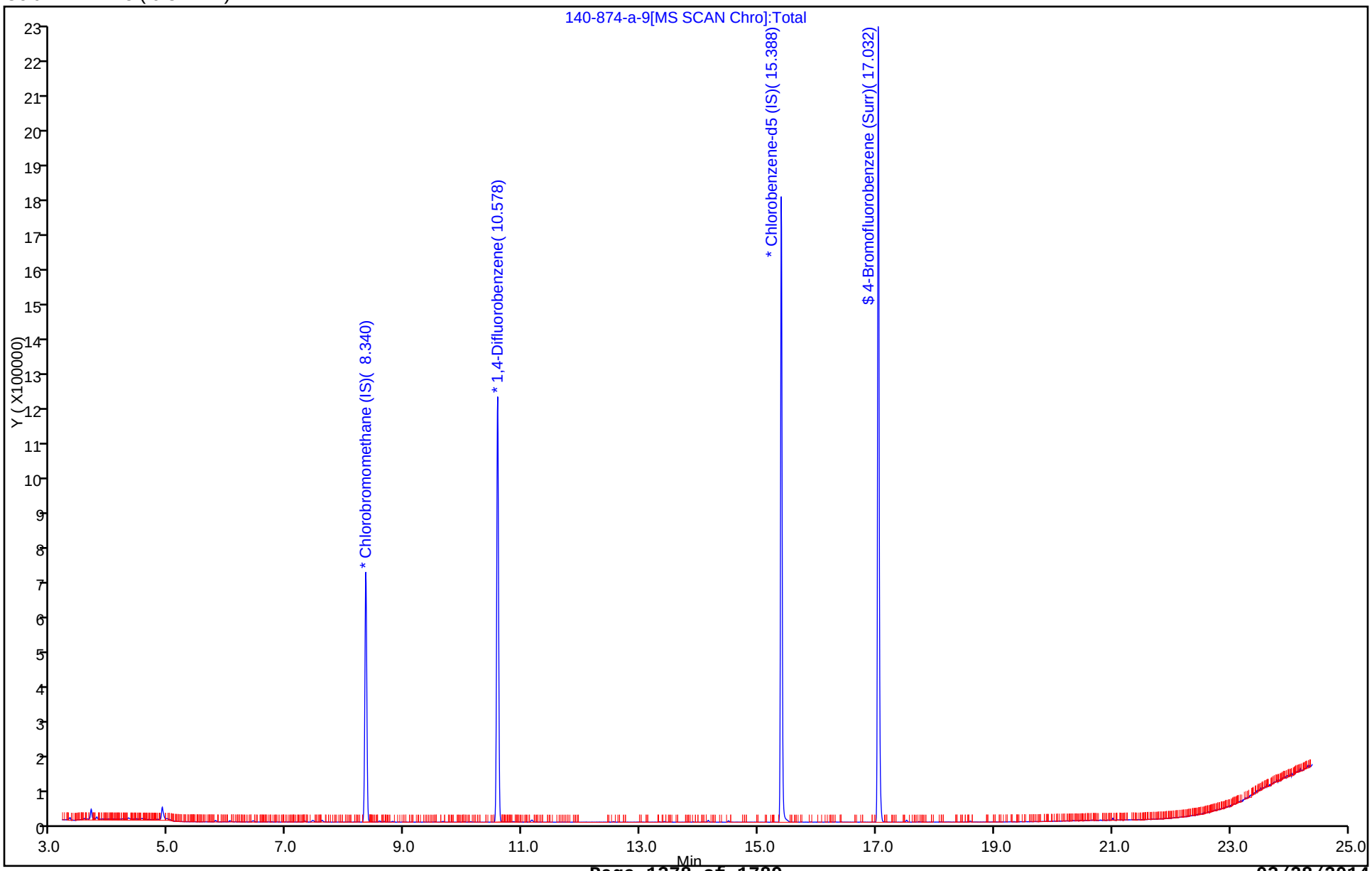
Report Date: 17-Feb-2014 07:53:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D

Injection Date:	16-Feb-2014 23:21:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-9	Lab Sample ID:	140-874-9	Worklist Smp#:	15
Client ID:	10815				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 | Lab Sample ID: 140-874-10

Matrix: Air | Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 | Lab Sample ID: 140-874-10

Matrix: Air | Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 Lab Sample ID: 140-874-10

Matrix: Air Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 Lab Sample ID: 140-874-10

Matrix: Air Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D
Lims ID: 140-874-A-10 Lab Sample ID: 140-874-10
Client ID: 10103
Sample Type: Client
Inject. Date: 17-Feb-2014 00:06:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10103
Misc. Info.: E021614,TO155,,140-0000438-016
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:53:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:53:40

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	234776	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1154768	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	995446	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	860520	3.95	
	7 Propene	41	3.314	3.314	0.0	92	3636	0.0616	
	44 Tetrahydrofuran	42	8.787	8.760	0.027	63	2456	0.0408	
	62 4-Methyl-2-pentanone (MIBK)	43	12.546	12.524	0.022	74	3671	0.0268	

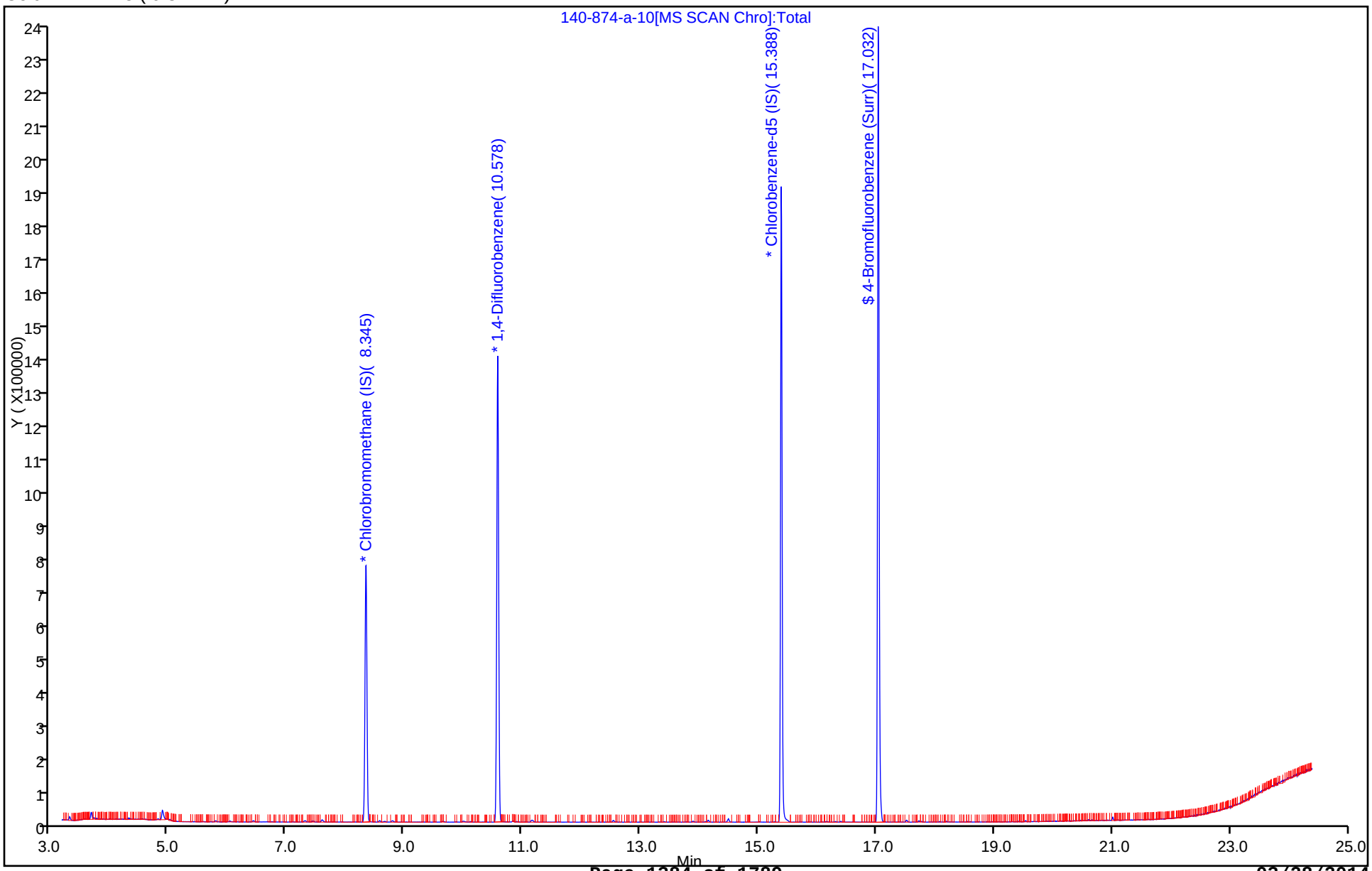
Report Date: 17-Feb-2014 07:53:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D

Injection Date:	17-Feb-2014 00:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-10	Lab Sample ID:	140-874-10	Worklist Smp#:	16
Client ID:	10103				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 Lab Sample ID: 140-874-12

Matrix: Air Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D
Lims ID: 140-874-A-12 Lab Sample ID: 140-874-12
Client ID: 09683
Sample Type: Client
Inject. Date: 17-Feb-2014 01:39:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09683
Misc. Info.: E021614,TO155,,140-0000438-018
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:54:54 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:54:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	237697	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1197041	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1064948	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	947171	4.06	

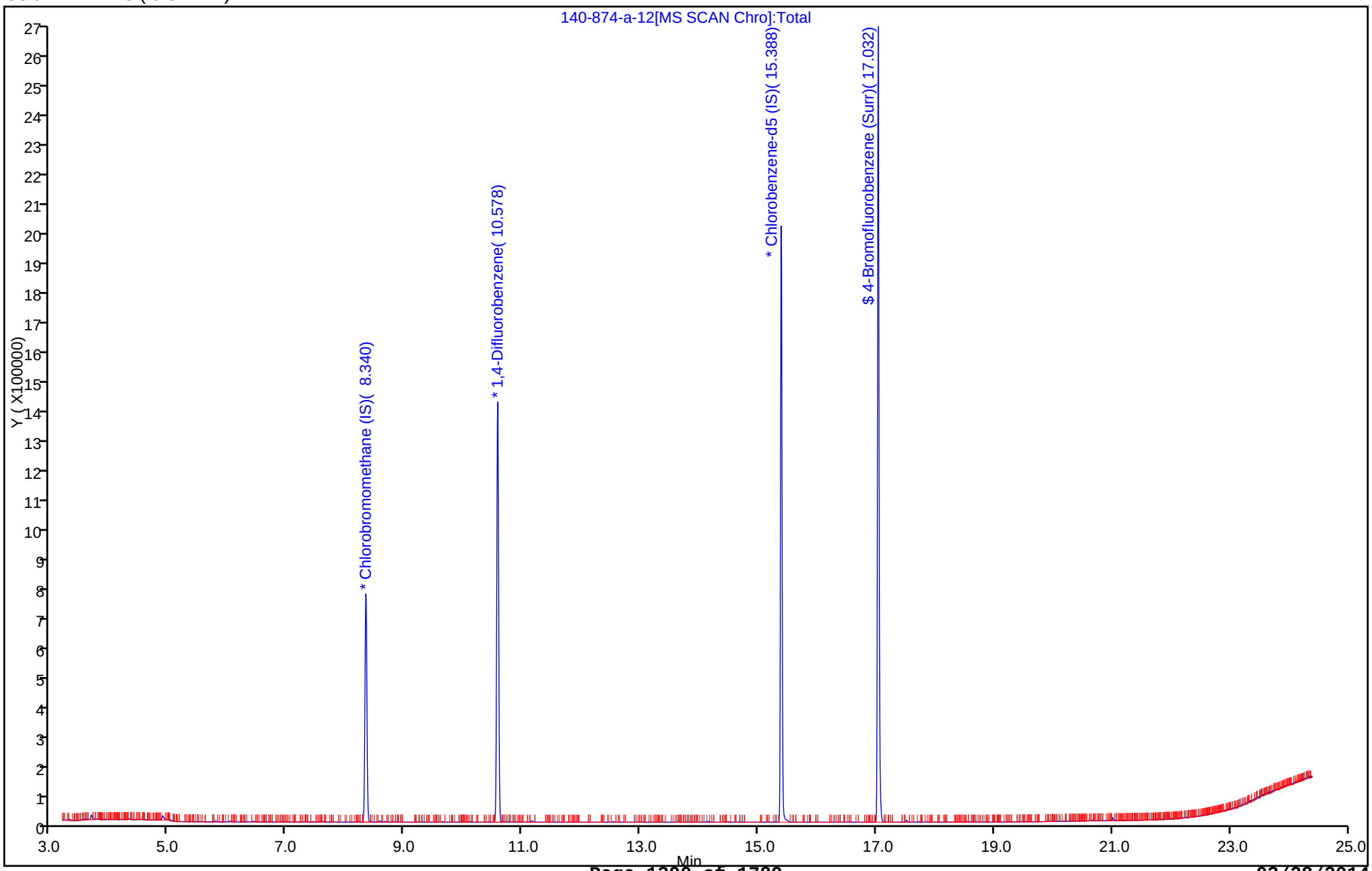
Report Date: 17-Feb-2014 07:54:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D

Injection Date:	17-Feb-2014 01:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-12	Lab Sample ID:	140-874-12	Worklist Smp#:	18
Client ID:	09683				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 Lab Sample ID: 140-874-13

Matrix: Air Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D
Lims ID: 140-874-A-13 Lab Sample ID: 140-874-13
Client ID: 09602
Sample Type: Client
Inject. Date: 17-Feb-2014 02:24:30 ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09602
Misc. Info.: E021614,TO155,,140-0000438-019
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:55:23 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:55:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	213583	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	992431	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	908727	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	791406	3.98	
44 Tetrahydrofuran	42	8.798	8.760	0.038	62	1922	0.0351	
48 Benzene	78	9.995	10.000	-0.005	89	14618	0.0732	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	7538	0.0641	

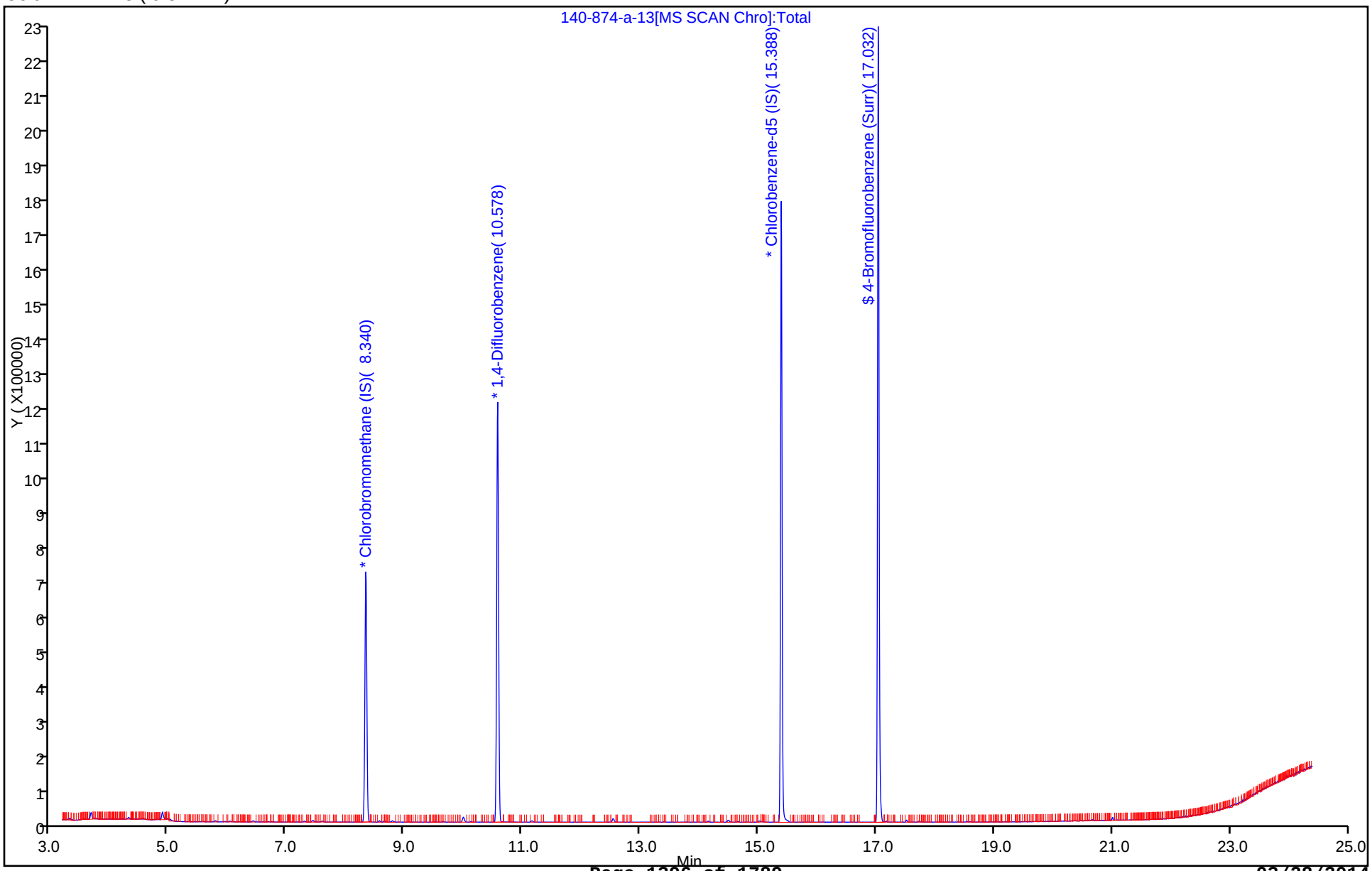
Report Date: 17-Feb-2014 07:55:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D

Injection Date:	17-Feb-2014 02:24:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-13	Lab Sample ID:	140-874-13	Worklist Smp#:	19
Client ID:	09602				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 Lab Sample ID: 140-874-14

Matrix: Air Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D				
Lims ID:	140-874-A-14	Lab Sample ID:	140-874-14		
Client ID:	10992				
Sample Type:	Client				
Inject. Date:	17-Feb-2014 03:09:30	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10992				
Misc. Info.:	E021614,TO155,,140-0000438-020				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:55:56	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:55:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	241105	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1209506	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1060998	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	933286	4.02	
24 Isopropyl alcohol	45	4.980	4.969	0.011	80	6331	0.0673	
33 Carbon disulfide	76	5.946	5.951	-0.005	82	5853	0.0235	
44 Tetrahydrofuran	42	8.787	8.760	0.027	82	3017	0.0488	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	85	13722	0.0957	

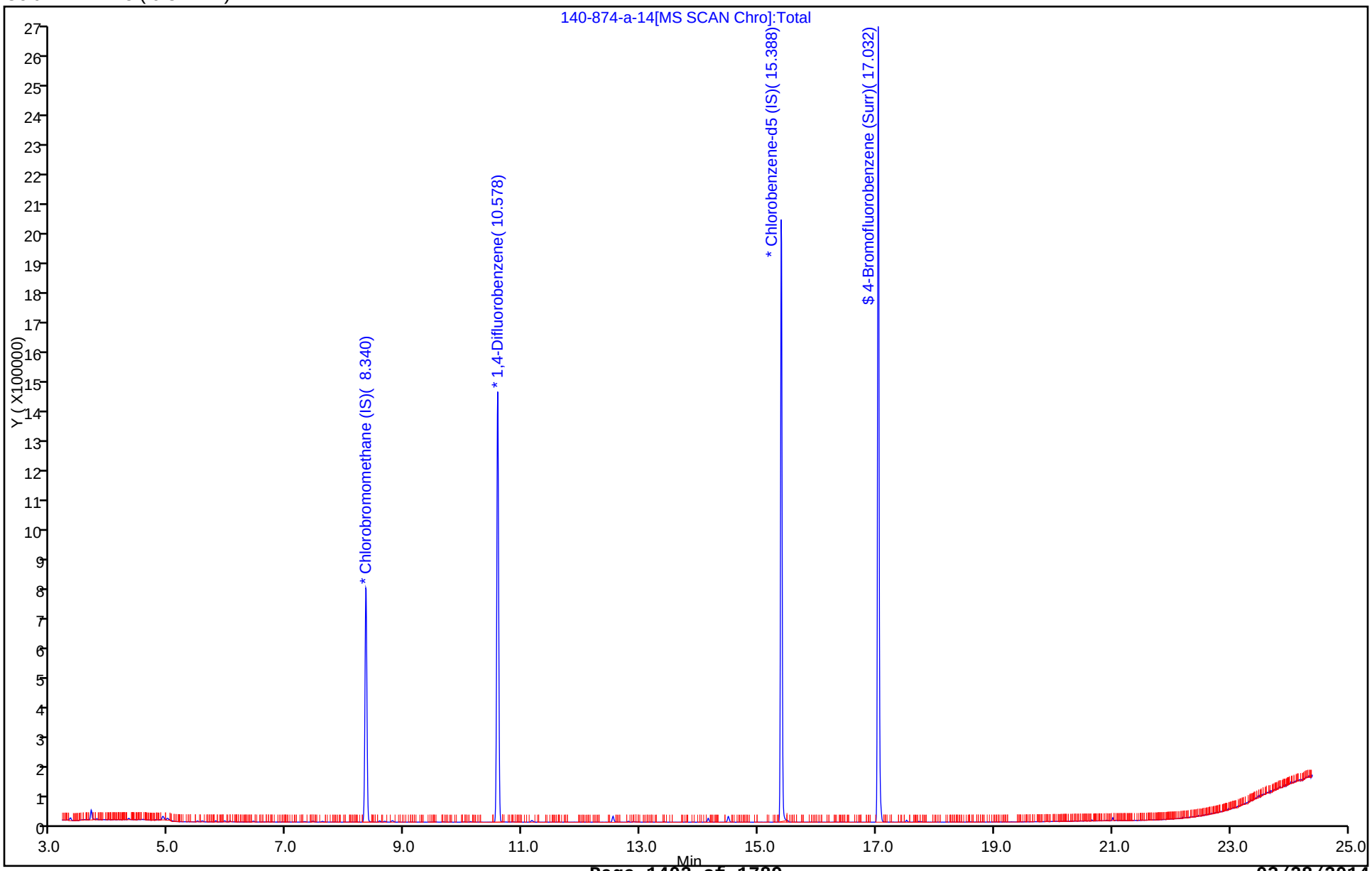
Report Date: 17-Feb-2014 07:55:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D

Injection Date:	17-Feb-2014 03:09:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-14	Lab Sample ID:	140-874-14	Worklist Smp#:	20
Client ID:	10992				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 Lab Sample ID: 140-874-16

Matrix: Air Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 | Lab Sample ID: 140-874-16

Matrix: Air | Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 | Lab Sample ID: 140-874-16

Matrix: Air | Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 Lab Sample ID: 140-874-16

Matrix: Air Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D				
Lims ID:	140-874-A-16	Lab Sample ID:	140-874-16		
Client ID:	10119				
Sample Type:	Client				
Inject. Date:	17-Feb-2014 04:40:30	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10119				
Misc. Info.:	E021614,TO155,,140-0000438-022				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:58:25	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:58:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	237409	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1184314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	1021115	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	876763	3.92	
44 Tetrahydrofuran	42	8.798	8.760	0.038	64	2091	0.0343	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	72	2906	0.0207	

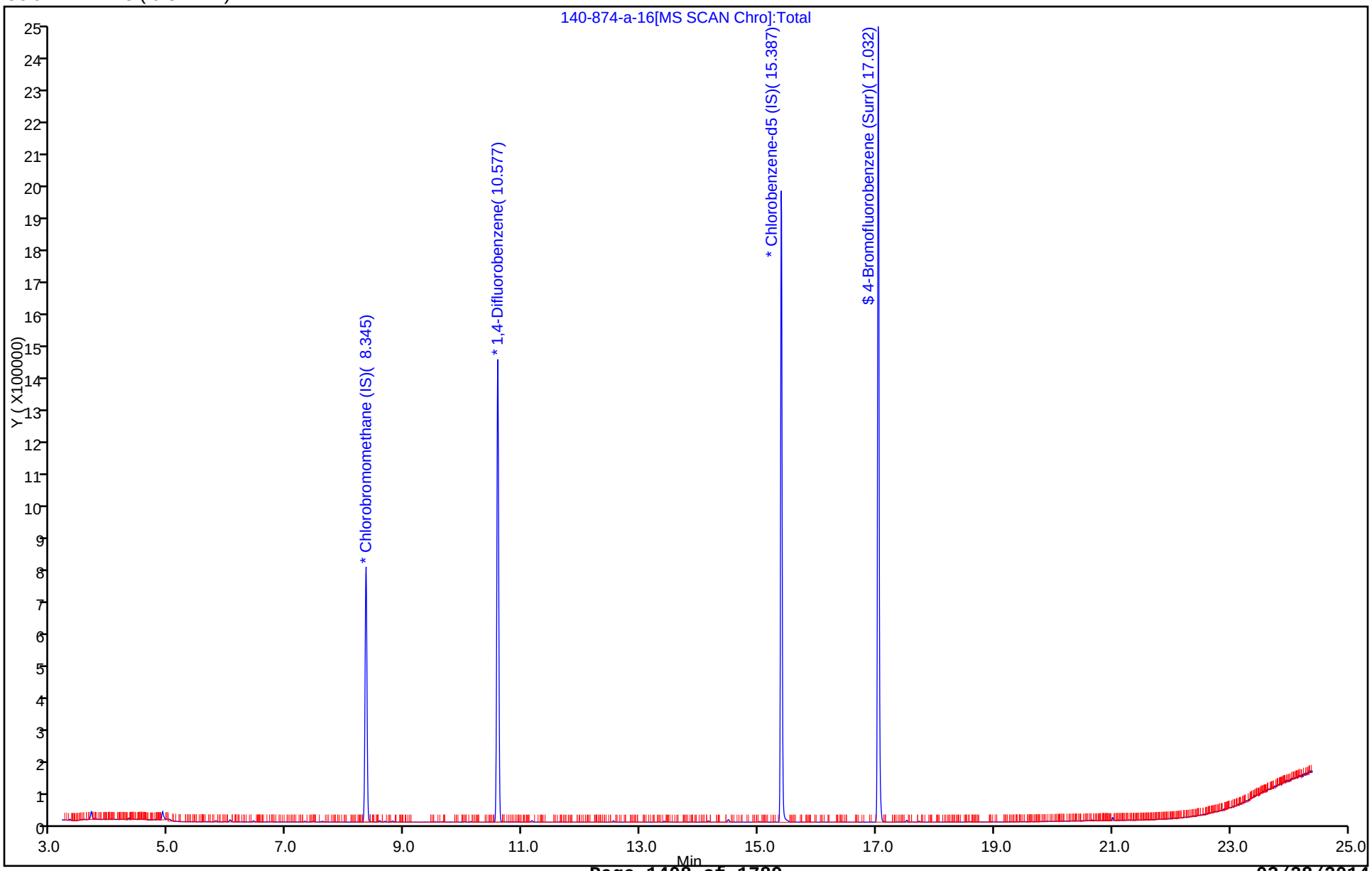
Report Date: 17-Feb-2014 07:58:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D

Injection Date:	17-Feb-2014 04:40:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-16	Lab Sample ID:	140-874-16	Worklist Smp#:	22
Client ID:	10119				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-881-1

SDG No.:

Client Sample ID: 10259 | Lab Sample ID: 140-881-14

Matrix: Air | Lab File ID: 140-881-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/14/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 15:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-881-1

SDG No.:

Client Sample ID: 10259 | Lab Sample ID: 140-881-14

Matrix: Air | Lab File ID: 140-881-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/14/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 15:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-881-1

SDG No.:

Client Sample ID: 10259 | Lab Sample ID: 140-881-14

Matrix: Air | Lab File ID: 140-881-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/14/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 15:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-881-1

SDG No.:

Client Sample ID: 10259 Lab Sample ID: 140-881-14

Matrix: Air Lab File ID: 140-881-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/14/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-881-a-14.D
Lims ID: 140-881-A-14 Lab Sample ID: 140-881-14
Client ID: 10259
Sample Type: Client
Inject. Date: 16-Feb-2014 15:50:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10259
Misc. Info.: E021614,TO155,,140-0000438-005
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 16-Feb-2014 16:33:17 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: barlozhetskayaa Date: 16-Feb-2014 16:30:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	247904	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1249047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	90	1115241	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	937417	3.84	
9 Chloromethane	52	3.546	3.535	0.011	13	1434	0.0655	
44 Tetrahydrofuran	42	8.782	8.760	0.022	72	5710	0.0898	

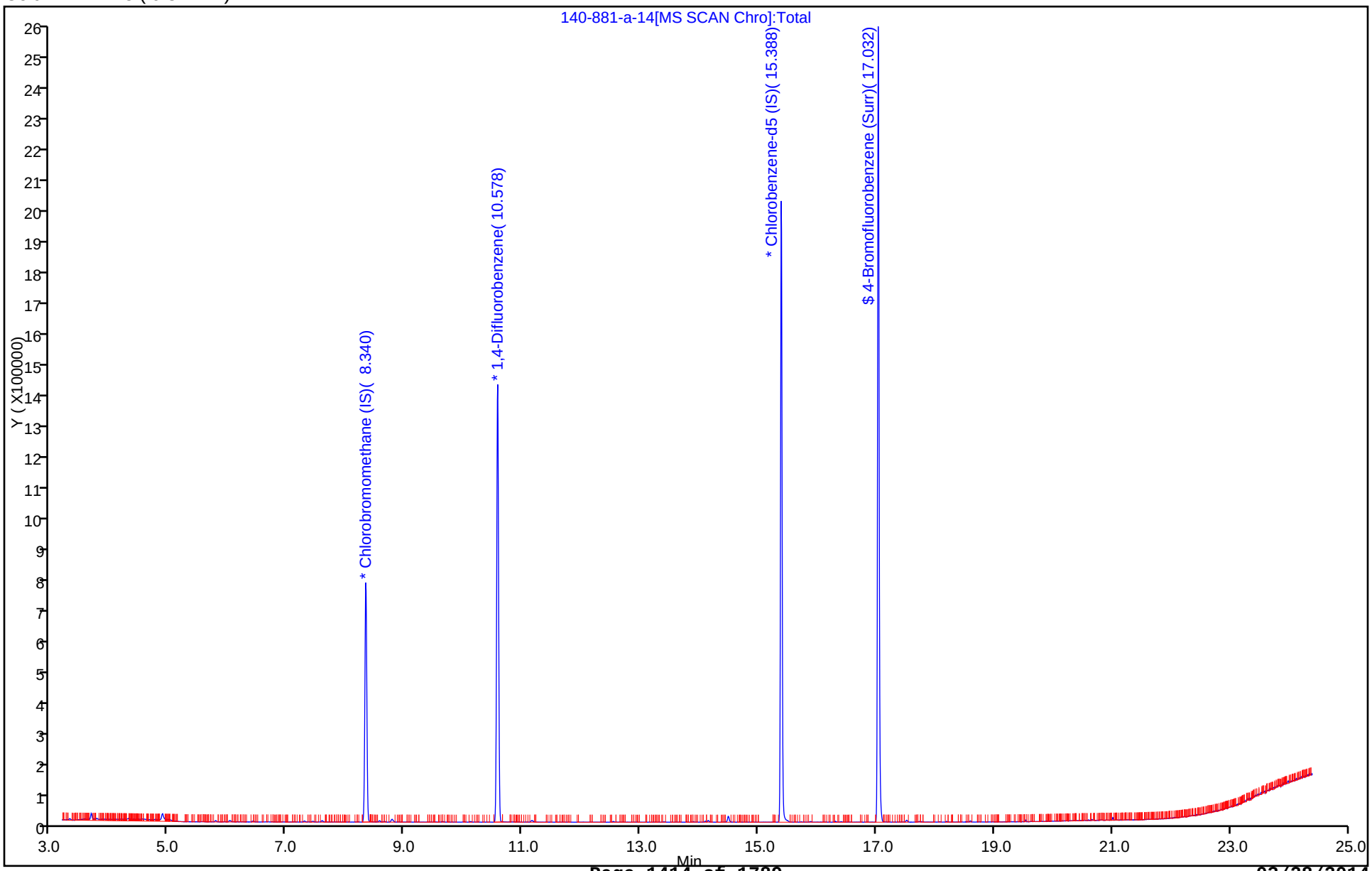
Report Date: 16-Feb-2014 16:34:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-881-a-14.D

Injection Date:	16-Feb-2014 15:50:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-881-A-14	Lab Sample ID:	140-881-14	Worklist Smp#:	5
Client ID:	10259				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 Lab Sample ID: 140-887-1

Matrix: Air Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 Lab Sample ID: 140-887-1

Matrix: Air Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D
Lims ID: 140-887-A-1 Lab Sample ID: 140-887-1
Client ID: 09990
Sample Type: Client
Inject. Date: 17-Feb-2014 17:42:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09990
Misc. Info.: J021714,TO15,,140-0000443-006
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:08:39 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:08:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234570	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1112648	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.227	16.229	-0.002	96	917035	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	79	748121	4.09	
7 Propene	41	3.972	3.974	-0.002	92	4831	0.0385	
13 Butane	43	4.516	4.523	-0.007	77	7175	0.0537	
19 2-Methylbutane	43	5.419	5.421	-0.002	58	2212	0.0201	
28 2-Methyl-2-propanol	59	6.517	6.492	0.025	42	3223	0.0229	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	86	20014	0.1059	

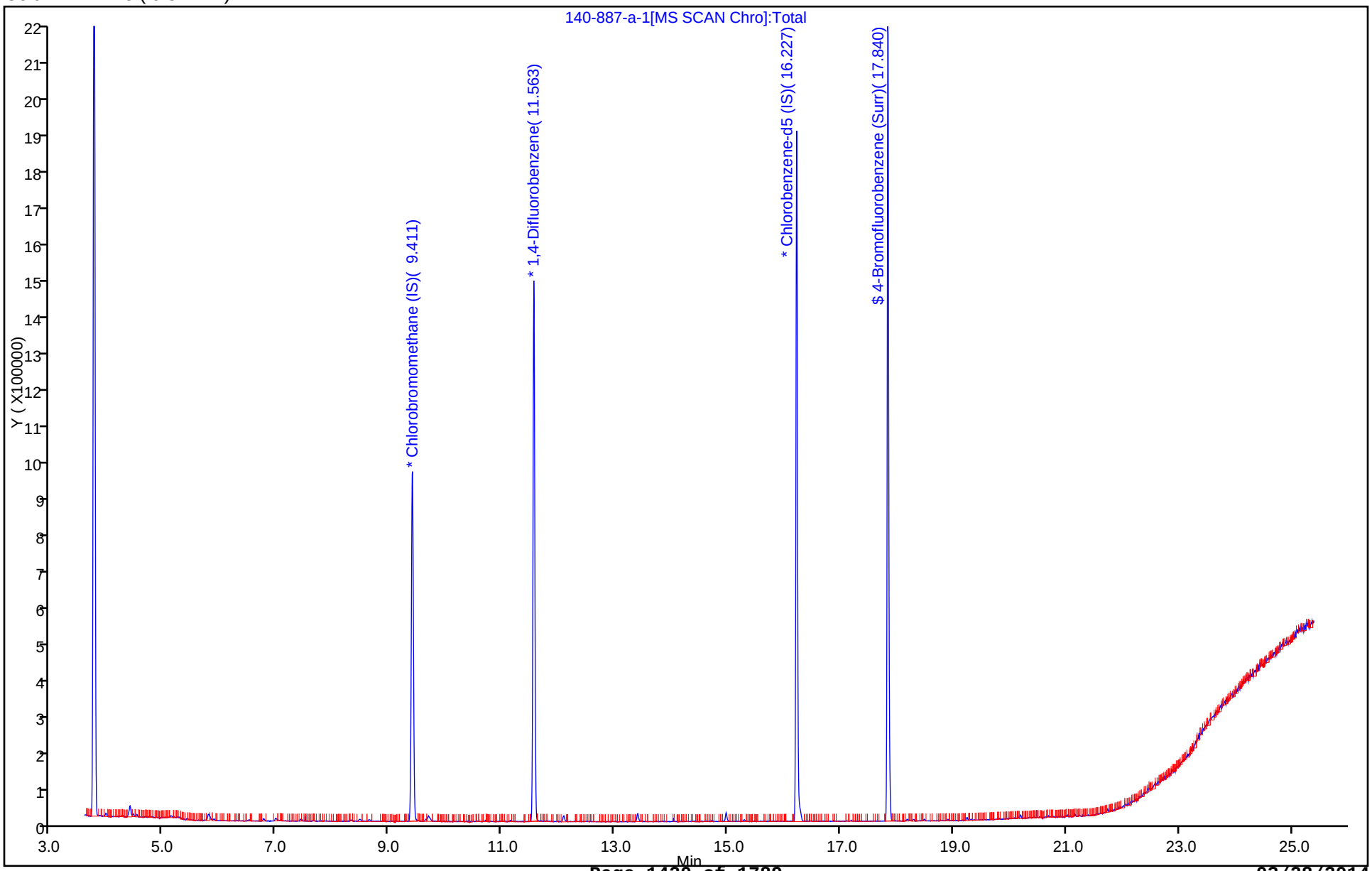
Report Date: 18-Feb-2014 09:08:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D

Injection Date:	17-Feb-2014 17:42:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-1	Lab Sample ID:	140-887-1	Worklist Smp#:	6
Client ID:	09990				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 Lab Sample ID: 140-887-2

Matrix: Air Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 Lab Sample ID: 140-887-2

Matrix: Air Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D
Lims ID: 140-887-A-2 Lab Sample ID: 140-887-2
Client ID: 09609
Sample Type: Client
Inject. Date: 17-Feb-2014 18:37:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09609
Misc. Info.: J021714,TO15,,140-0000443-007
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:09:07 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:09:06

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228881	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1124225	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	920012	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	724033	3.94	
	28 2-Methyl-2-propanol	59	6.515	6.492	0.023	31	3061	0.0223	
	62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	68	7138	0.0374	

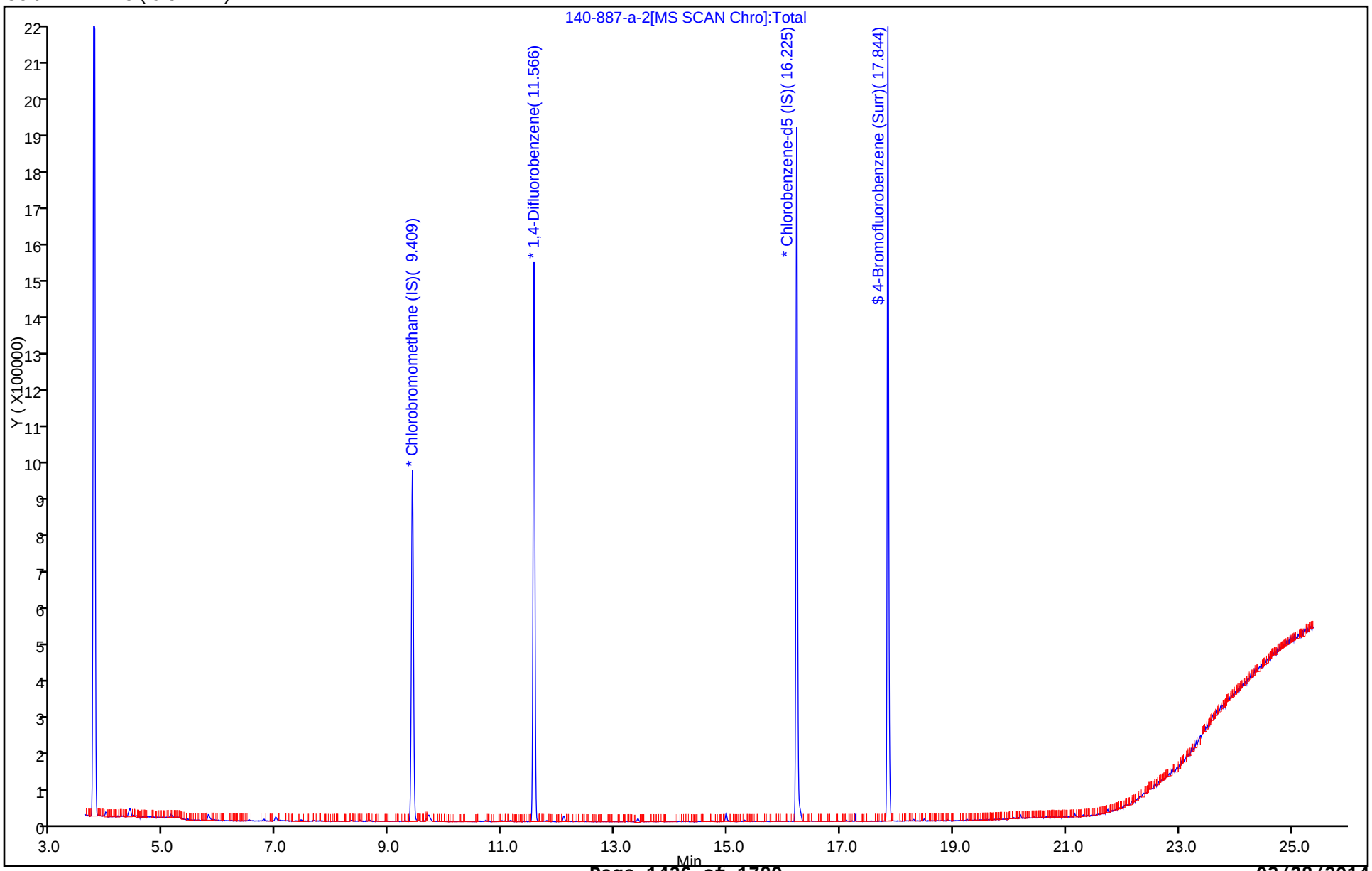
Report Date: 18-Feb-2014 09:09:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D

Injection Date:	17-Feb-2014 18:37:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-2	Lab Sample ID:	140-887-2	Worklist Smp#:	7
Client ID:	09609				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-887-5

Matrix: Air | Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-887-5

Matrix: Air | Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D
Lims ID: 140-887-A-5 Lab Sample ID: 140-887-5
Client ID: 10426
Sample Type: Client
Inject. Date: 17-Feb-2014 21:20:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10426
Misc. Info.: J021714,TO15,,140-0000443-010
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:10:54 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228039	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1142730	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	979591	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	85	796262	4.07	
7 Propene	41	3.976	3.974	0.002	87	4305	0.0353	
28 2-Methyl-2-propanol	59	6.515	6.492	0.023	46	2506	0.0183	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	69	5993	0.0309	

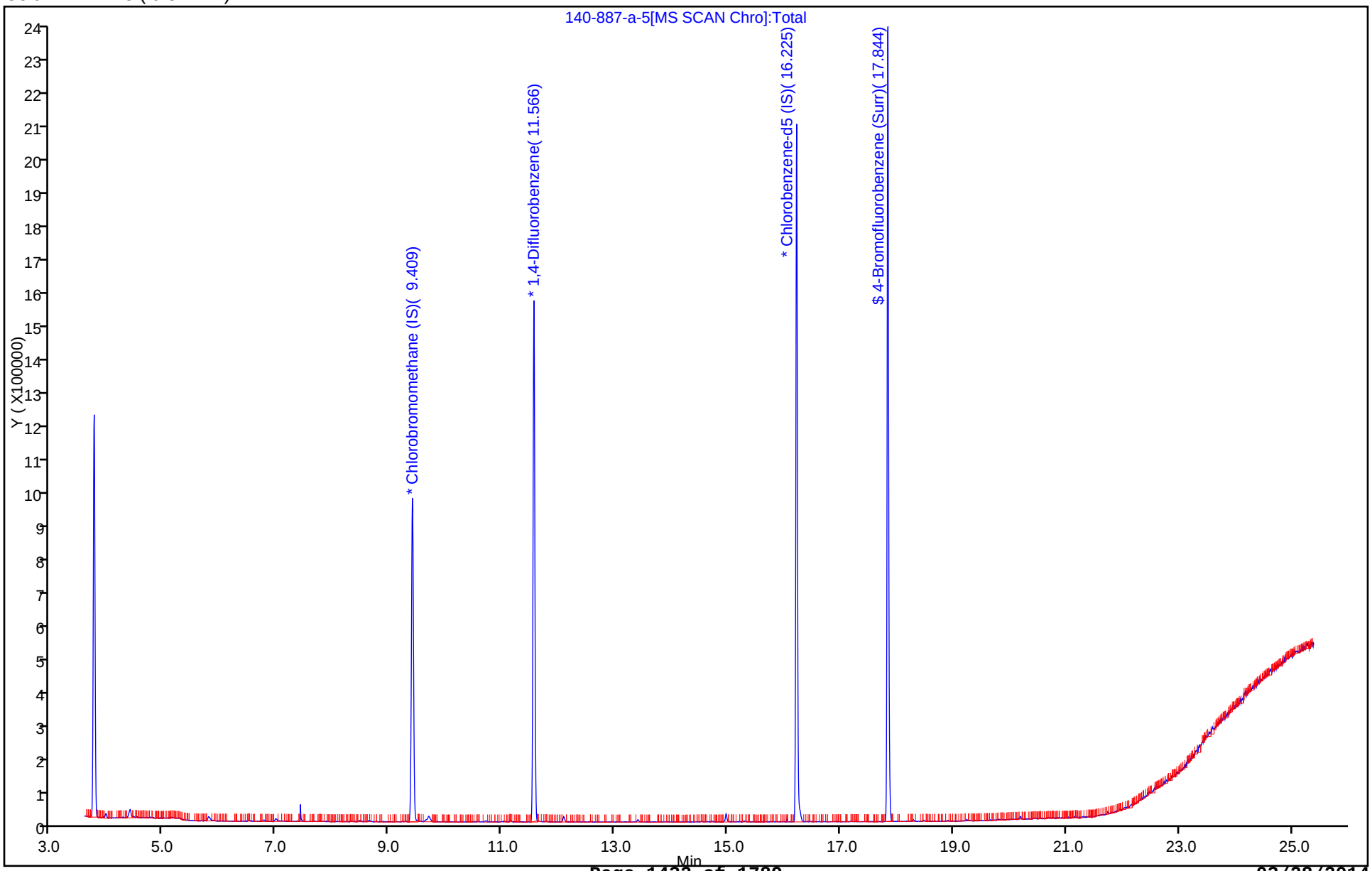
Report Date: 18-Feb-2014 09:10:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D

Injection Date:	17-Feb-2014 21:20:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-5	Lab Sample ID:	140-887-5	Worklist Smp#:	10
Client ID:	10426				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 18-Feb-2014 09:11:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D
Lims ID: 140-887-A-6 Lab Sample ID: 140-887-6
Client ID: 10578
Sample Type: Client
Inject. Date: 17-Feb-2014 22:14:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10578
Misc. Info.: J021714,TO15,,140-0000443-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:22 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234526	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1084974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	888329	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	719762	4.06	
7 Propene	41	3.976	3.974	0.002	69	4102	0.0327	
28 2-Methyl-2-propanol	59	6.531	6.492	0.039	6	2301	0.0163	
44 Tetrahydrofuran	42	9.861	9.833	0.028	80	5635	0.0688	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	87	30074	0.1632	

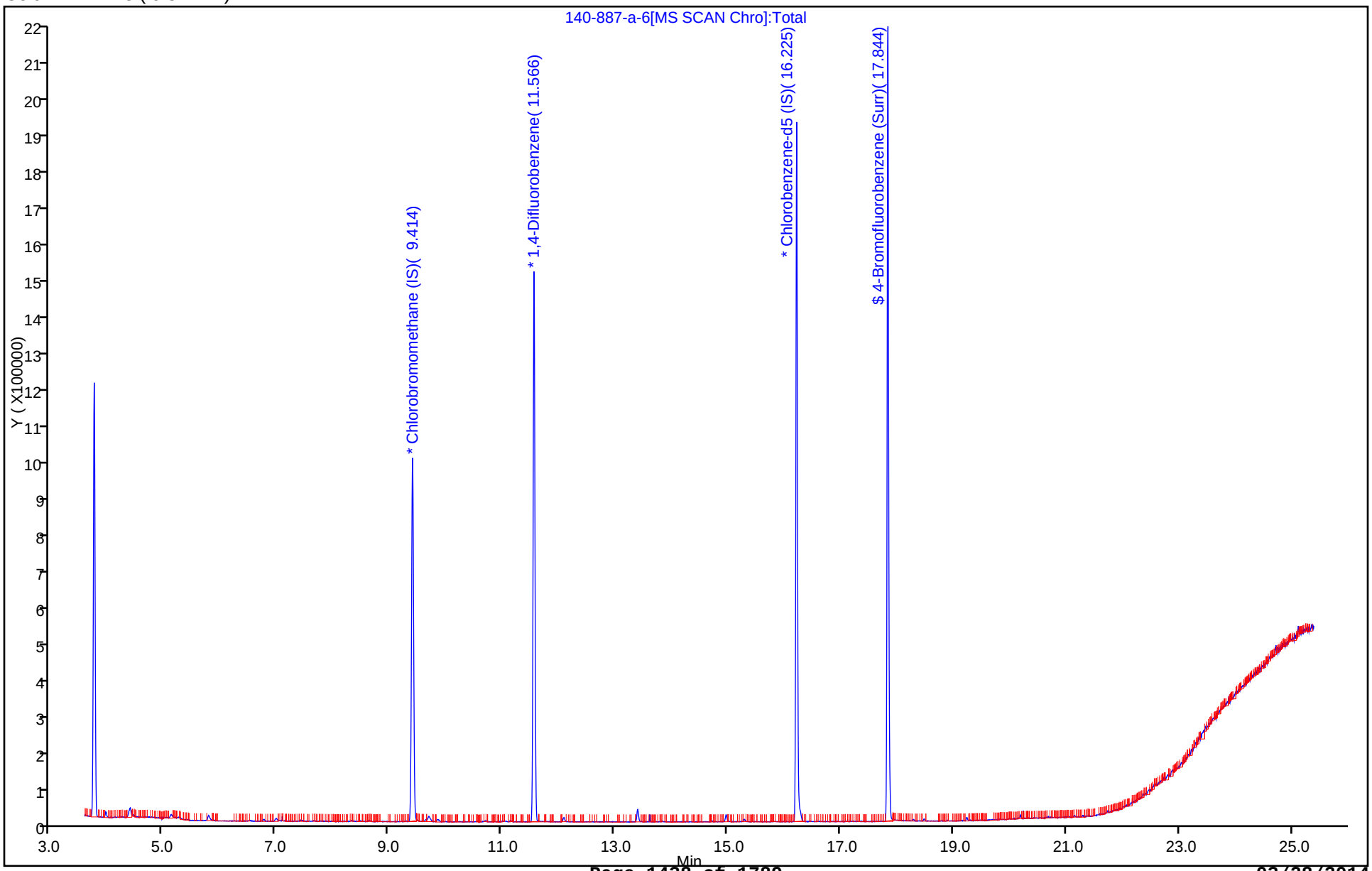
Report Date: 18-Feb-2014 09:11:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D

Injection Date:	17-Feb-2014 22:14:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-6	Lab Sample ID:	140-887-6	Worklist Smp#:	11
Client ID:	10578				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 | Lab Sample ID: 140-887-8

Matrix: Air | Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 | Lab Sample ID: 140-887-8

Matrix: Air | Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D
Lims ID: 140-887-A-8 Lab Sample ID: 140-887-8
Client ID: 10718
Sample Type: Client
Inject. Date: 17-Feb-2014 23:08:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10718
Misc. Info.: J021714,TO15,,140-0000443-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:53 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:53

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234757	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1129568	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	931520	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	731564	3.94	
	7 Propene	41	3.981	3.974	0.007	90	4432	0.0353	
	13 Butane	43	4.524	4.523	0.001	77	10078	0.0754	
	19 2-Methylbutane	43	5.417	5.421	-0.004	63	2815	0.0255	
	28 2-Methyl-2-propanol	59	6.514	6.492	0.022	50	3058	0.0217	
	33 Carbon disulfide	76	6.956	6.960	-0.004	91	16157	0.0635	
	62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	78	12128	0.0632	

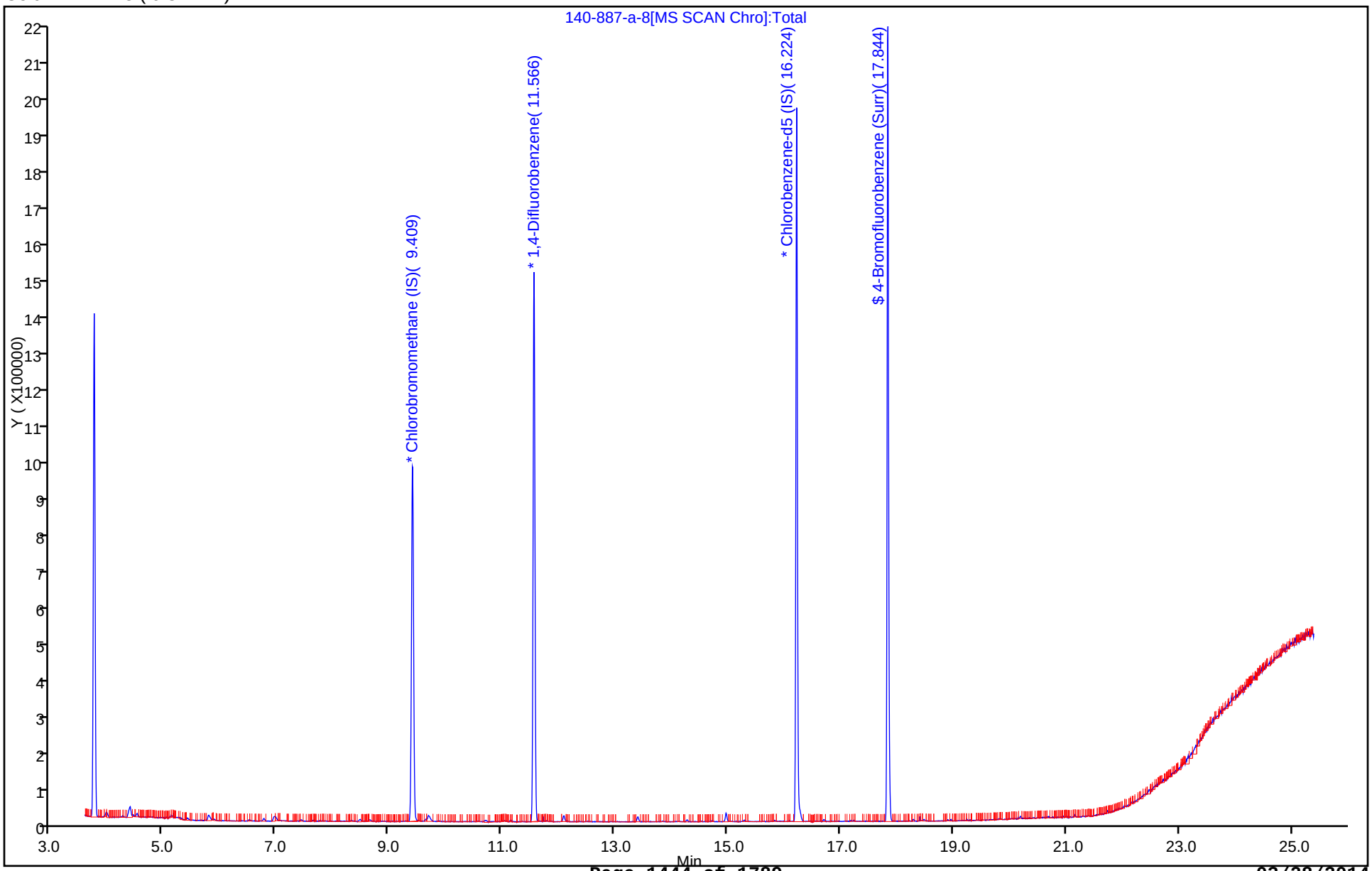
Report Date: 18-Feb-2014 09:11:54 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D

Injection Date:	17-Feb-2014 23:08:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-8	Lab Sample ID:	140-887-8	Worklist Smp#:	12
Client ID:	10718				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D
Lims ID: 140-887-A-9 Lab Sample ID: 140-887-9
Client ID: 10367
Sample Type: Client
Inject. Date: 18-Feb-2014 00:05:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10367
Misc. Info.: J021714,TO15,,140-0000443-013
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:12:18 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:12:18

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	232063	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1078719	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	855061	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.838	17.843	-0.005	78	667028	3.91	
	28 2-Methyl-2-propanol	59	6.509	6.492	0.017	48	4069	0.0292	

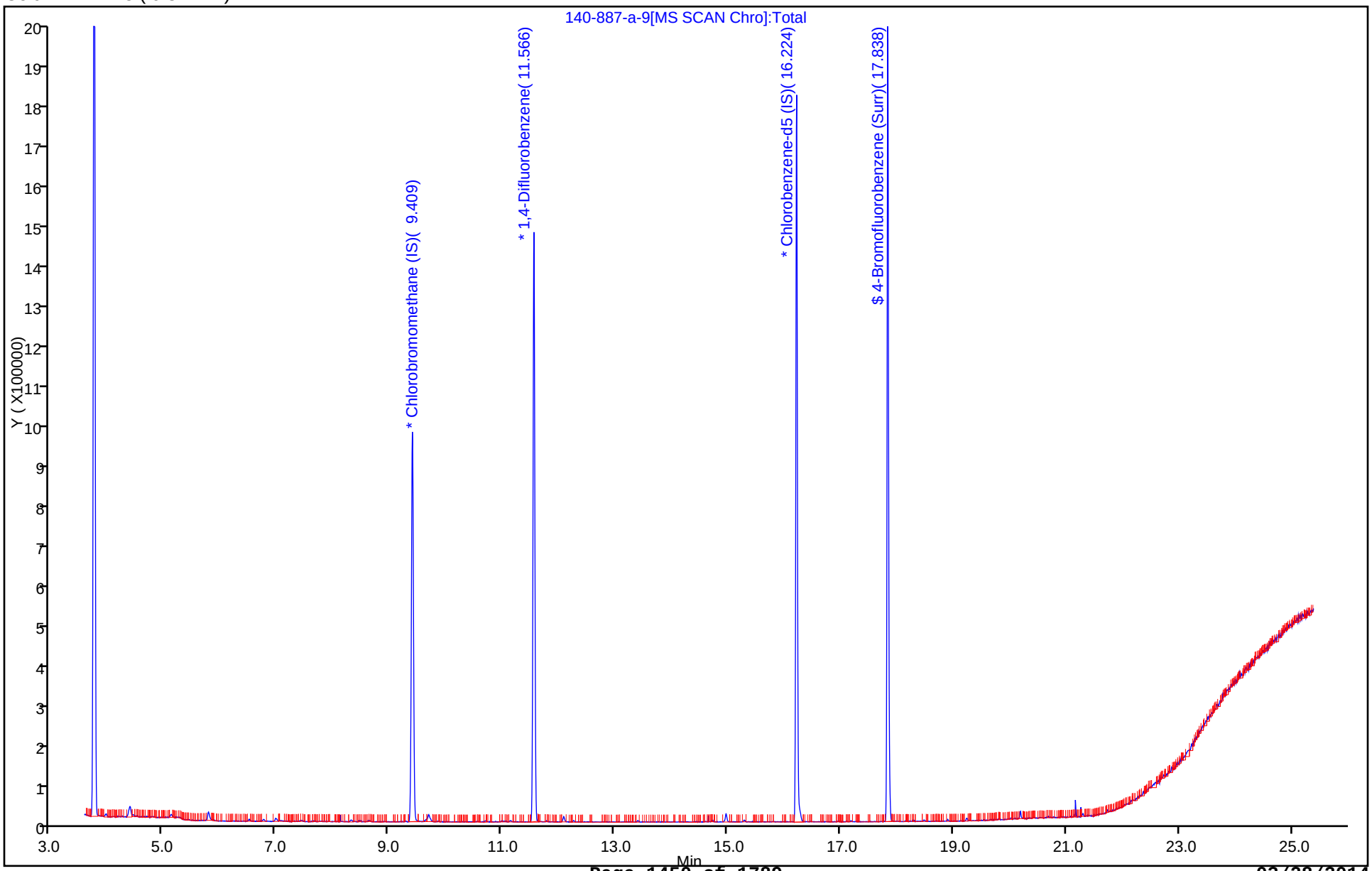
Report Date: 18-Feb-2014 09:12:19 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D

Injection Date:	18-Feb-2014 00:05:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-9	Lab Sample ID:	140-887-9	Worklist Smp#:	13
Client ID:	10367				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 Lab Sample ID: 140-887-11

Matrix: Air Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D
Lims ID: 140-887-A-11 Lab Sample ID: 140-887-11
Client ID: 09513
Sample Type: Client
Inject. Date: 18-Feb-2014 01:54:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09513
Misc. Info.: J021714,TO15,,140-0000443-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:13:45 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:13:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.407	9.418	-0.012	89	232043	4.00	
*	2 1,4-Difluorobenzene	114	11.564	11.570	-0.006	98	1067906	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	870406	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.842	17.843	-0.001	79	716999	4.13	
	28 2-Methyl-2-propanol	59	6.518	6.492	0.026	28	2611	0.0187	
	44 Tetrahydrofuran	42	9.697	9.833	-0.136	16	6588	0.0812	
	62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	70	8614	0.0475	

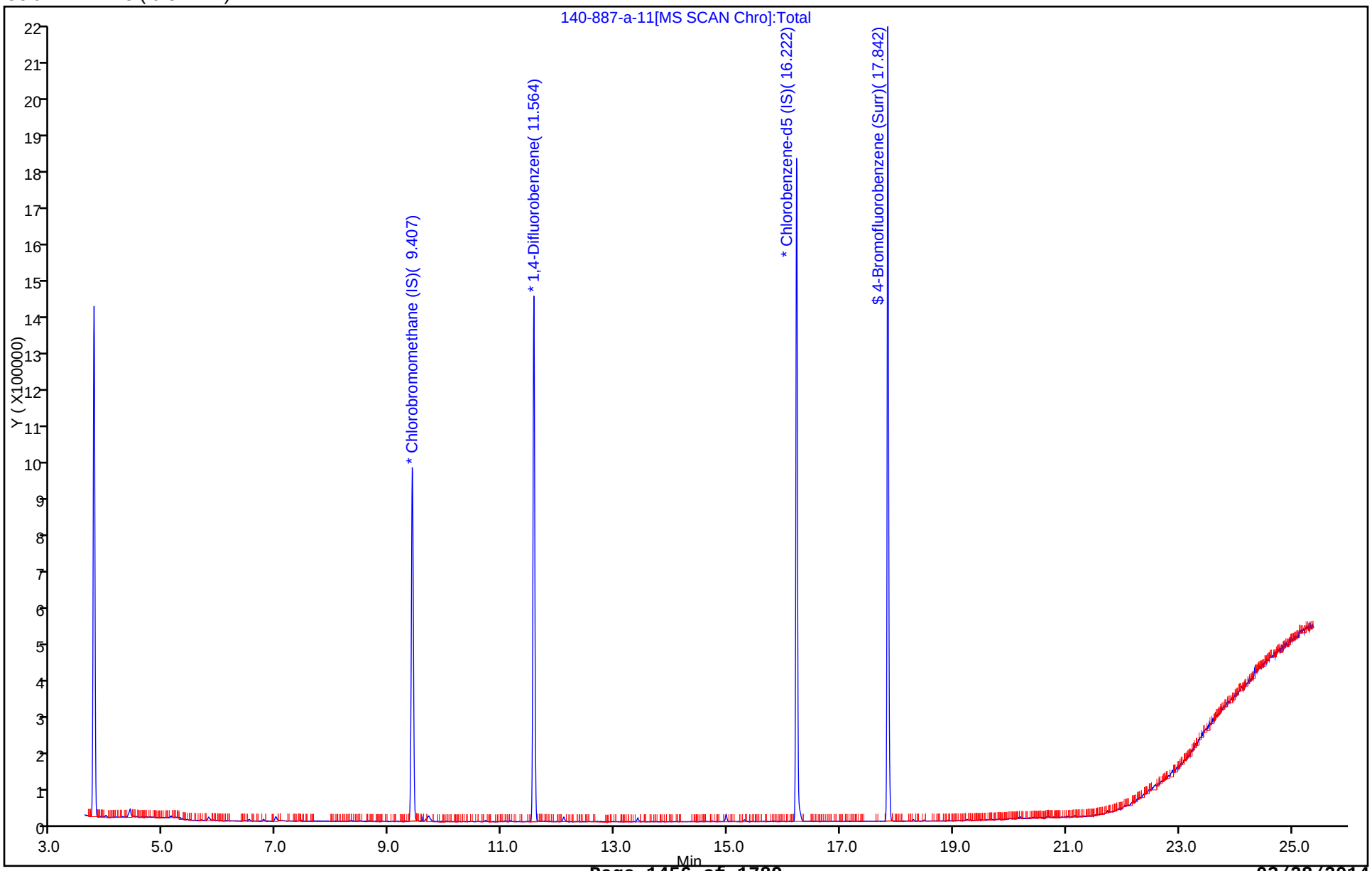
Report Date: 18-Feb-2014 09:13:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D

Injection Date:	18-Feb-2014 01:54:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-11	Lab Sample ID:	140-887-11	Worklist Smp#:	15
Client ID:	09513				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 | Lab Sample ID: 140-887-13

Matrix: Air | Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D
Lims ID: 140-887-A-13 Lab Sample ID: 140-887-13
Client ID: 09820
Sample Type: Client
Inject. Date: 18-Feb-2014 03:44:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09820
Misc. Info.: J021714,TO15,,140-0000443-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.418	-0.006	90	230349	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1076802	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	865396	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.843	-0.002	79	684889	3.97	
7 Propene	41	3.973	3.974	-0.001	45	4500	0.0365	
28 2-Methyl-2-propanol	59	6.512	6.492	0.020	47	3840	0.0277	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	84	16476	0.0901	

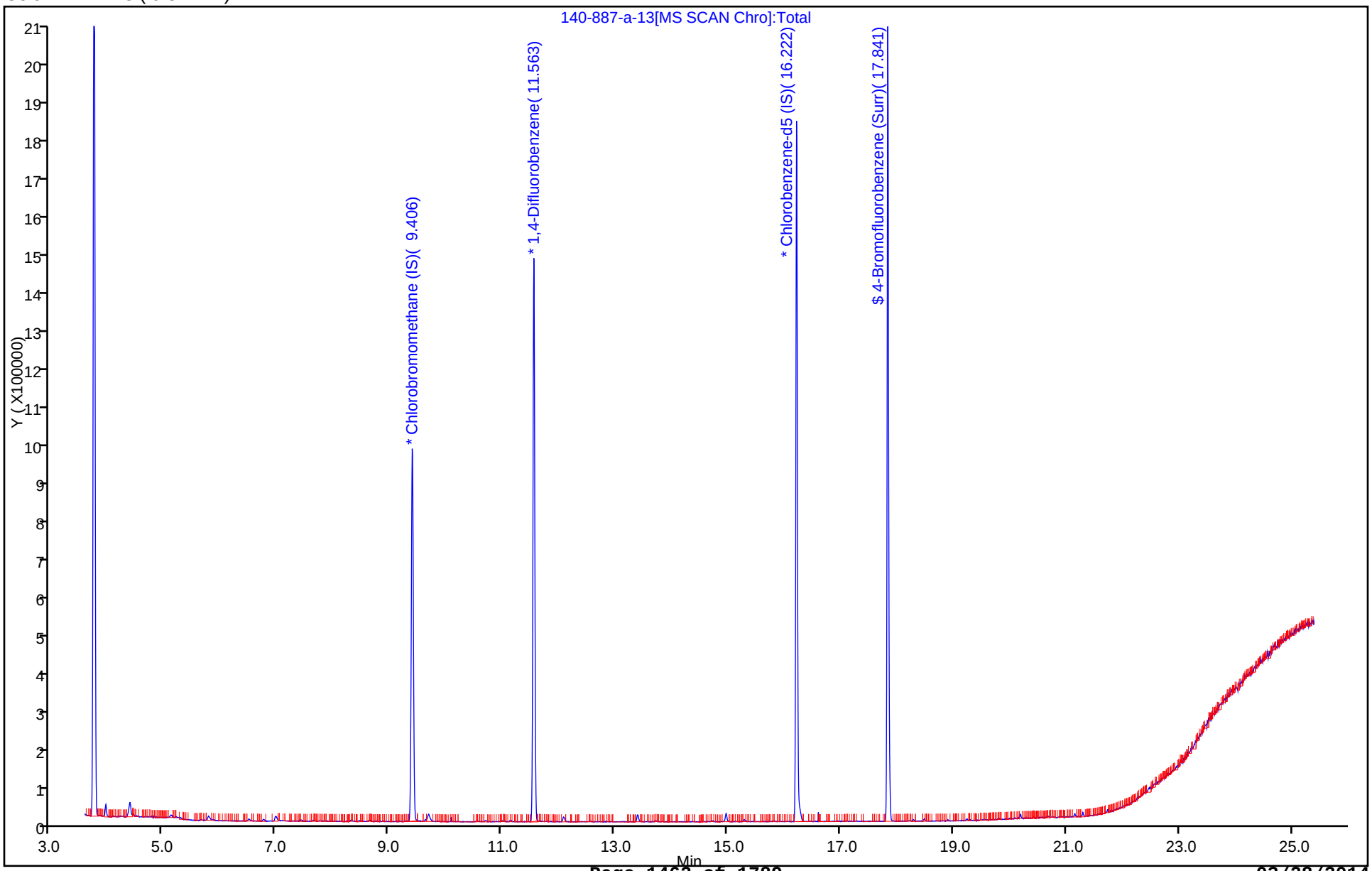
Report Date: 18-Feb-2014 09:15:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D

Injection Date:	18-Feb-2014 03:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-13	Lab Sample ID:	140-887-13	Worklist Smp#:	17
Client ID:	09820				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 Lab Sample ID: 140-887-14

Matrix: Air Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D
Lims ID: 140-887-A-14 Lab Sample ID: 140-887-14
Client ID: 10248
Sample Type: Client
Inject. Date: 18-Feb-2014 04:38:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10248
Misc. Info.: J021714,TO15,,140-0000443-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	235467	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1138994	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	961934	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	787823	4.10	
	28 2-Methyl-2-propanol	59	6.520	6.492	0.028	47	3082	0.0218	
	62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	70	8327	0.0431	

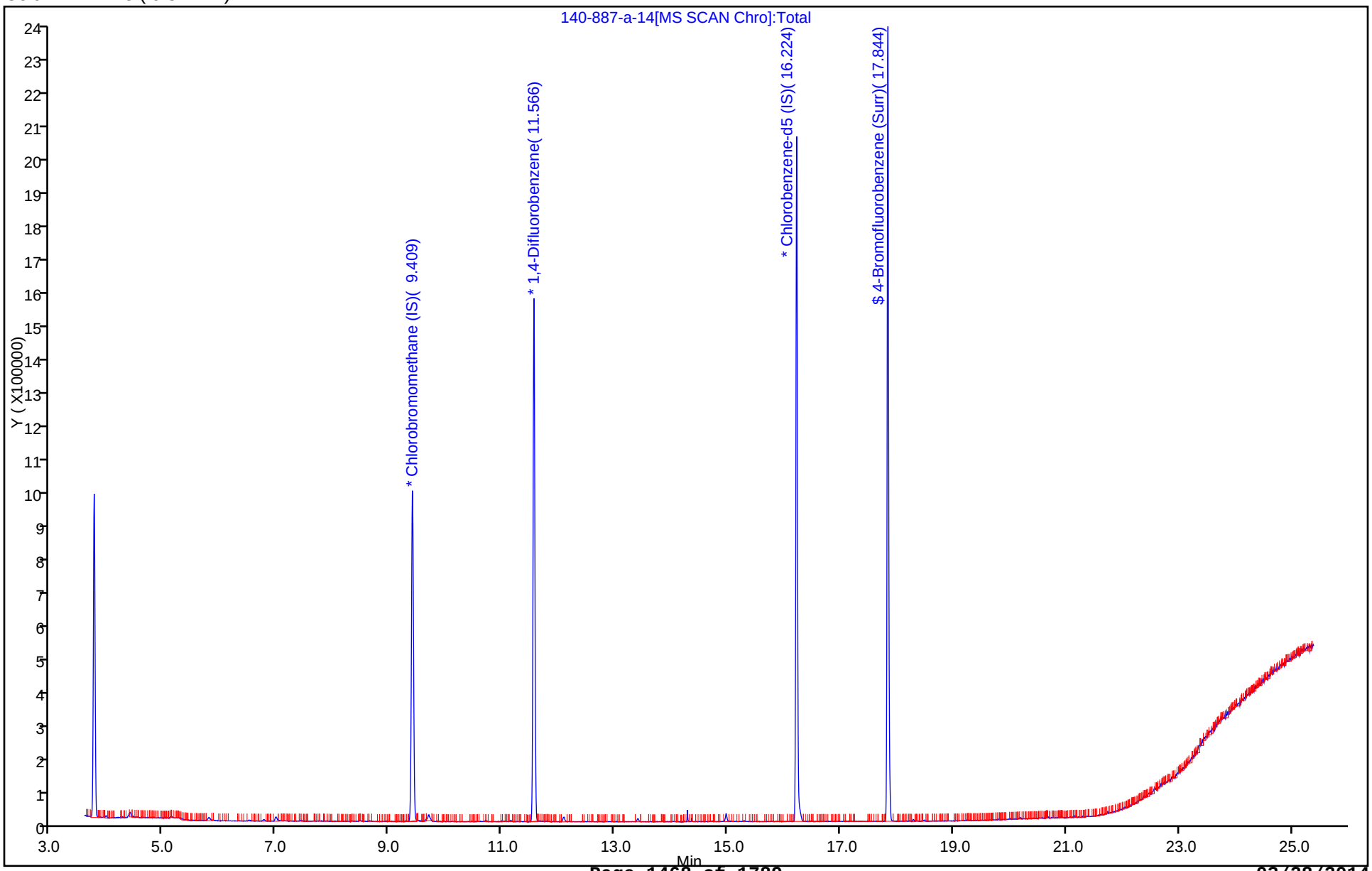
Report Date: 18-Feb-2014 09:15:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D

Injection Date:	18-Feb-2014 04:38:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-14	Lab Sample ID:	140-887-14	Worklist Smp#:	18
Client ID:	10248				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 Lab Sample ID: 140-887-16

Matrix: Air Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D
Lims ID: 140-887-A-16 Lab Sample ID: 140-887-16
Client ID: 09526
Sample Type: Client
Inject. Date: 18-Feb-2014 06:28:30 ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09526
Misc. Info.: J021714,TO15,,140-0000443-020
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:16:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:16:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.410	9.418	-0.008	90	244816	4.00	
* 2 1,4-Difluorobenzene	114	11.567	11.570	-0.003	98	1187906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	978359	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	79	774920	3.97	
7 Propene	41	3.976	3.974	0.002	89	4495	0.0343	
28 2-Methyl-2-propanol	59	6.505	6.492	0.013	65	6413	0.0436	
47 n-Butanol	31	10.986	10.968	0.018	72	2420	0.0562	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.399	0.002	90	28428	0.1409	
93 1,2,4-Trimethylbenzene	105	18.964	18.962	0.002	32	5670	0.0267	

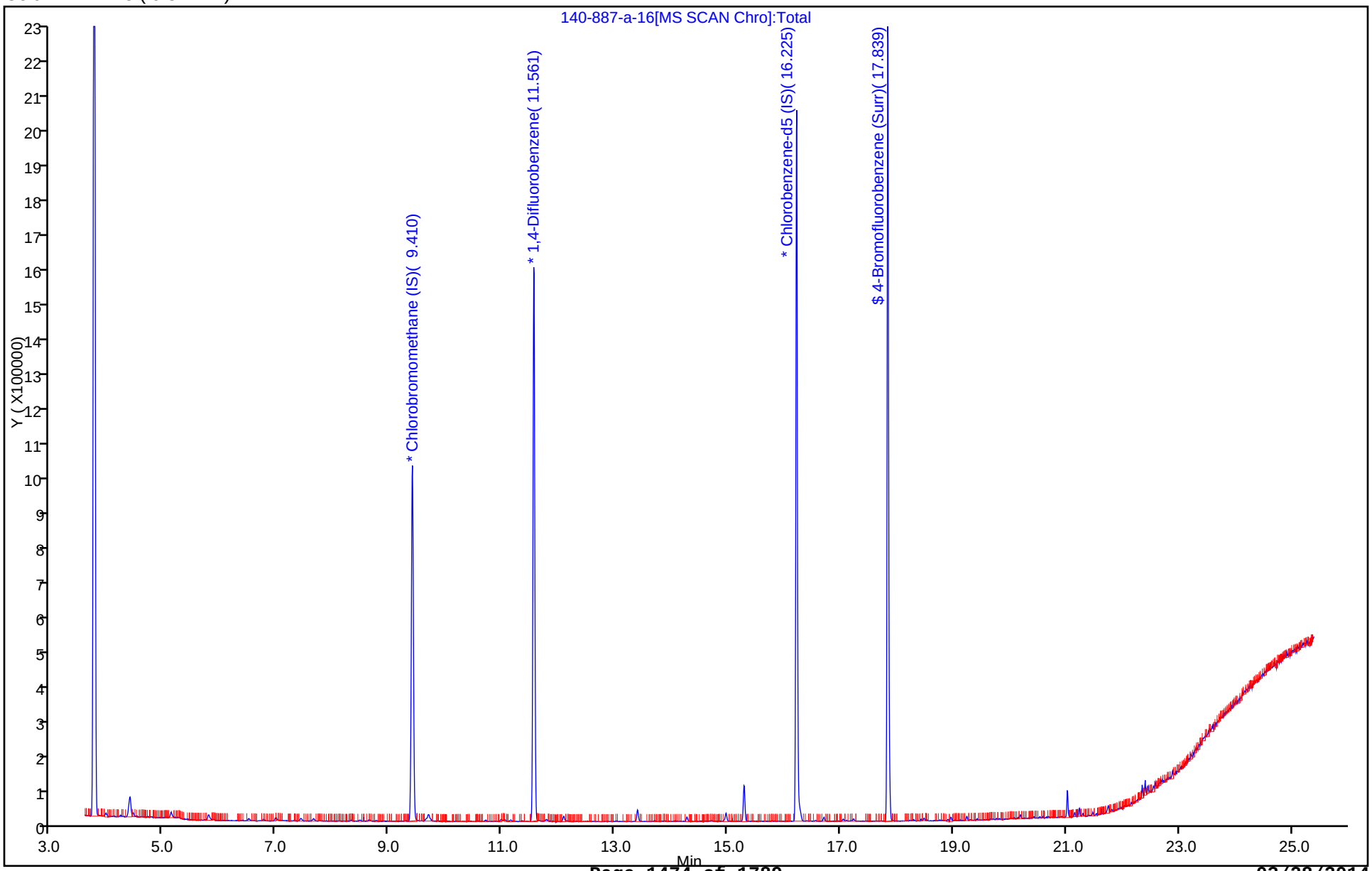
Report Date: 18-Feb-2014 09:16:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D

Injection Date:	18-Feb-2014 06:28:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-16	Lab Sample ID:	140-887-16	Worklist Smp#:	20
Client ID:	09526				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D				
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1		
Client ID:	09994				
Sample Type:	Client				
Inject. Date:	18-Feb-2014 22:23:30	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09994				
Misc. Info.:	E021814,TO155,,140-0000446-014				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 09:17:15	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 09:17:15		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.350	0.0	82	249824	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1244065	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1091614	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	934270	3.91	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	5258	0.0357	

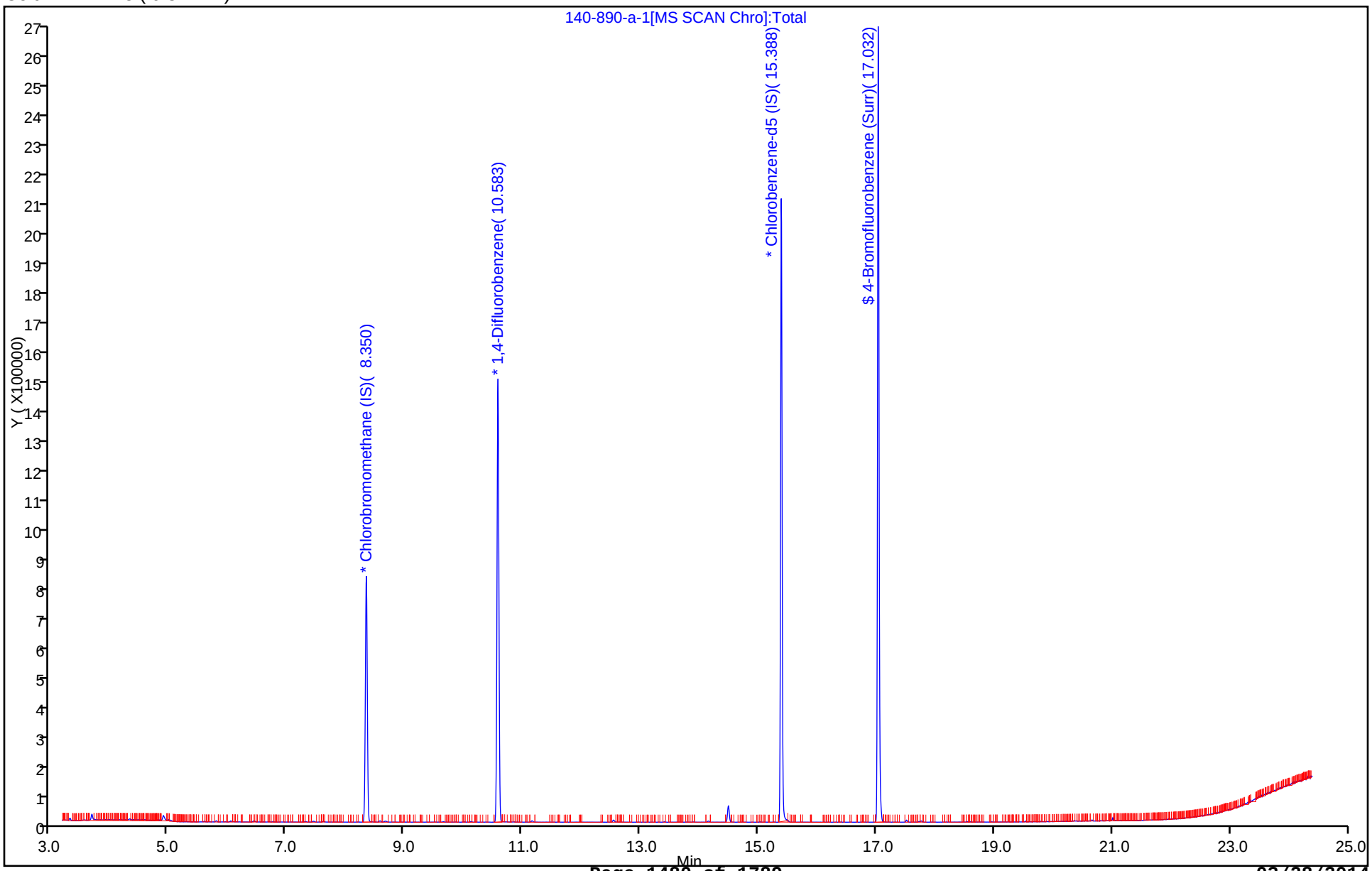
Report Date: 19-Feb-2014 09:17:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D

Injection Date:	18-Feb-2014 22:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1	Worklist Smp#:	14
Client ID:	09994				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 Lab Sample ID: 140-890-5

Matrix: Air Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D
Lims ID: 140-890-A-5 Lab Sample ID: 140-890-5
Client ID: 10829
Sample Type: Client
Inject. Date: 19-Feb-2014 01:25:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10829
Misc. Info.: E021814,TO155,,140-0000446-018
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 09:19:47 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:19:47

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	233449	4.00	
*	2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1163887	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1024194	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	887509	3.96	
	62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	69	3548	0.0257	

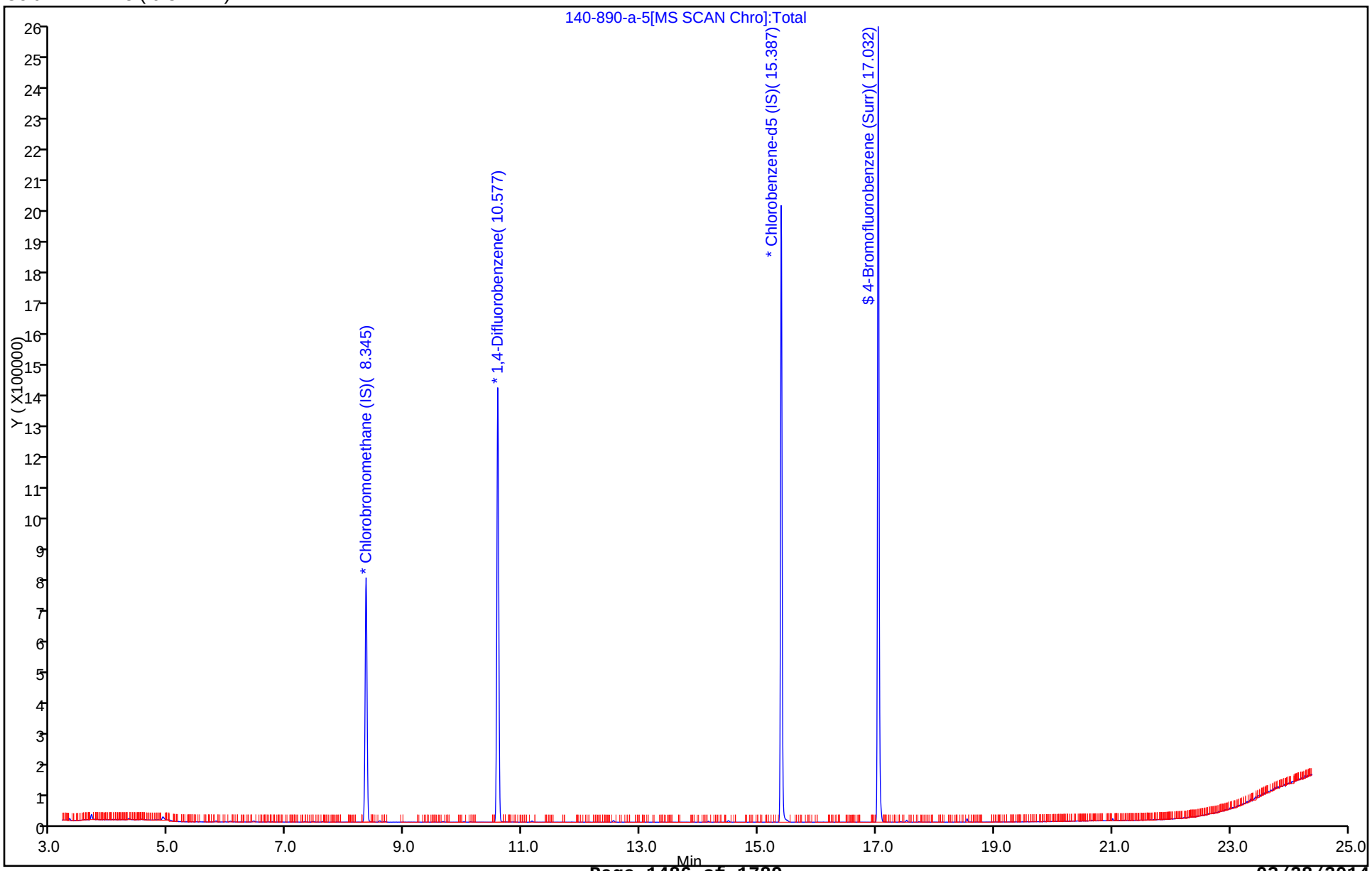
Report Date: 19-Feb-2014 09:19:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D

Injection Date:	19-Feb-2014 01:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-5	Lab Sample ID:	140-890-5	Worklist Smp#:	18
Client ID:	10829				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 Lab Sample ID: 140-890-6

Matrix: Air Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 Lab Sample ID: 140-890-6

Matrix: Air Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D
Lims ID: 140-890-A-6 Lab Sample ID: 140-890-6
Client ID: 09516
Sample Type: Client
Inject. Date: 17-Feb-2014 16:45:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09516
Misc. Info.: J021714,TO15,,140-0000443-005
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 13:48:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: barlozhetskayaa Date: 19-Feb-2014 13:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.008	90	239088	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.570	-0.008	98	1194187	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	1002280	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	791782	3.96	
13 Butane	43	4.515	4.523	-0.008	70	3953	0.0290	
28 2-Methyl-2-propanol	59	6.511	6.492	0.019	52	4198	0.0292	
44 Tetrahydrofuran	42	9.701	9.833	-0.132	6	7078	0.0847	
47 n-Butanol	31	10.992	10.968	0.024	57	1793	0.0414	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	73	12686	0.0626	

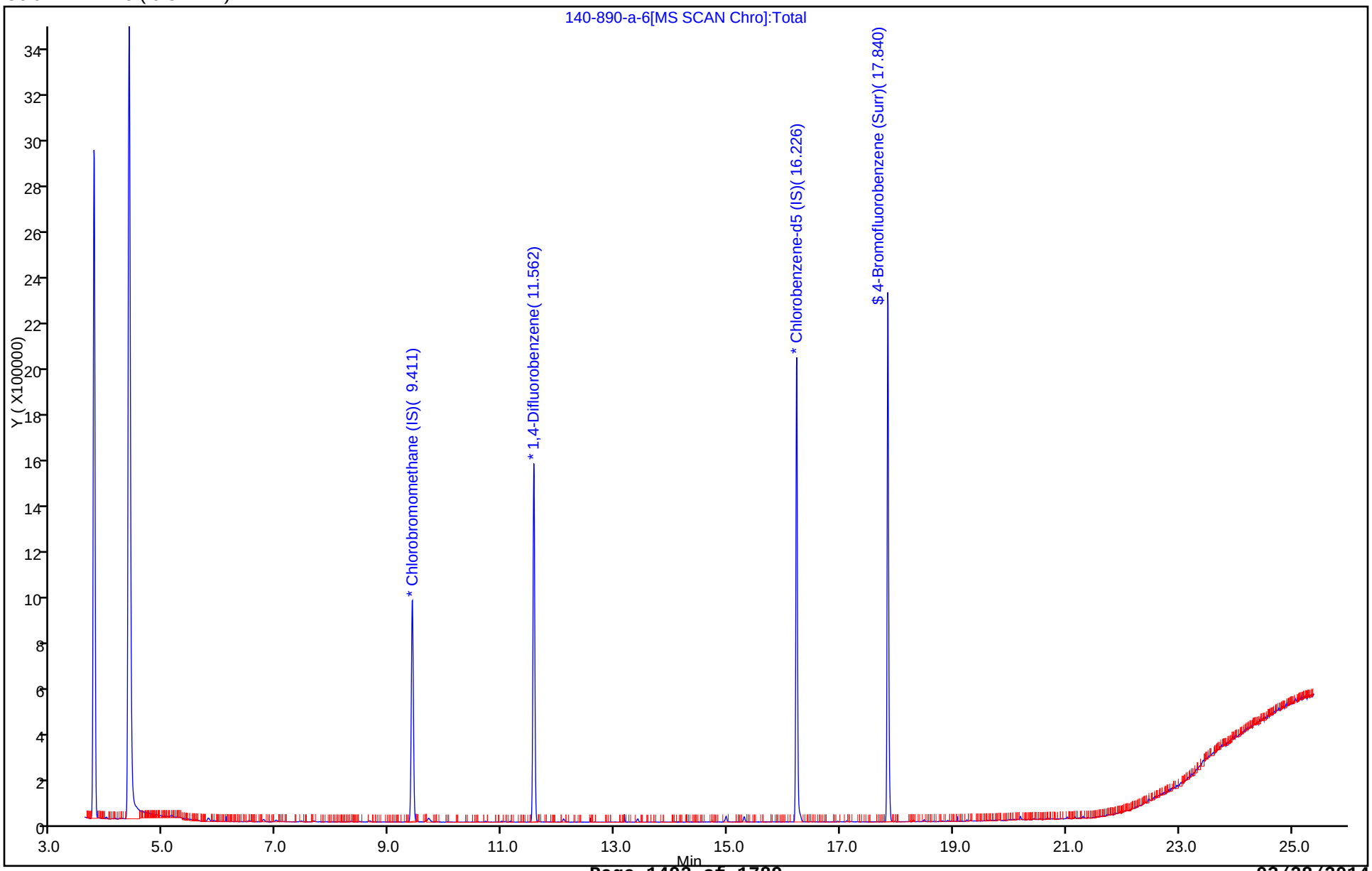
Report Date: 19-Feb-2014 13:48:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D

Injection Date:	17-Feb-2014 16:45:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-890-A-6	Lab Sample ID:	140-890-6	Worklist Smp#:	5
Client ID:	09516				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 Lab Sample ID: 140-890-9

Matrix: Air Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D
Lims ID: 140-890-A-9 Lab Sample ID: 140-890-9
Client ID: 09514
Sample Type: Client
Inject. Date: 19-Feb-2014 03:40:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09514
Misc. Info.: E021814,TO155,,140-0000446-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 09:21:06 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	227568	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1144242	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	998758	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	872183	3.99	
7 Propene	41	3.319	3.314	0.005	89	1956	0.0342	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	4362	0.0322	

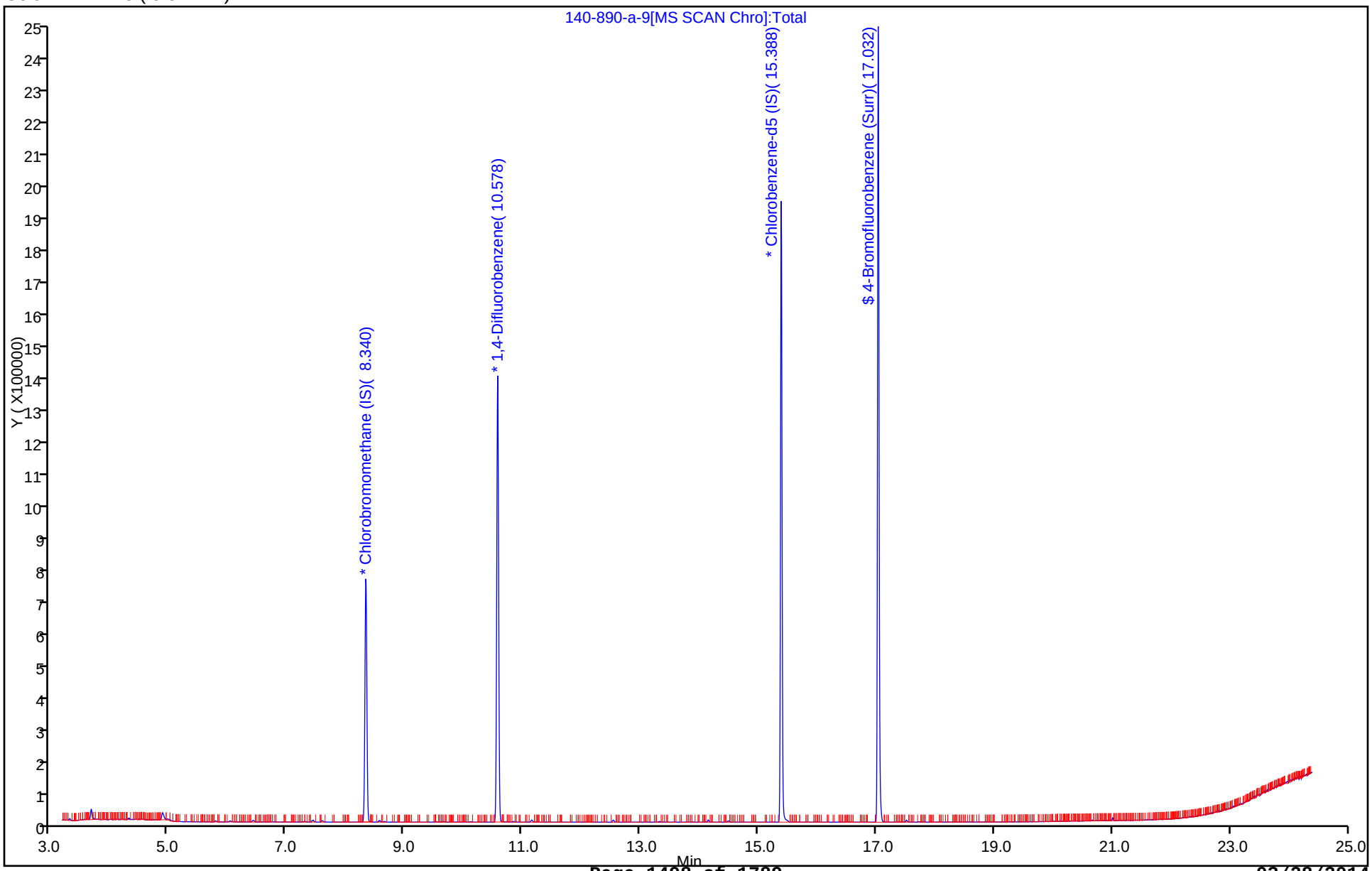
Report Date: 19-Feb-2014 09:21:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D

Injection Date:	19-Feb-2014 03:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-9	Lab Sample ID:	140-890-9	Worklist Smp#:	21
Client ID:	09514				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 Lab Sample ID: 140-890-10

Matrix: Air Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D
Lims ID: 140-890-A-10 Lab Sample ID: 140-890-10
Client ID: 10716
Sample Type: Client
Inject. Date: 19-Feb-2014 00:31:30 ALS Bottle#: 7 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10716
Misc. Info.: J021814,TO15,,140-0000448-016
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:51:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:51:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.411	-0.002	93	257619	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.568	-0.002	97	1197722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.227	-0.002	93	1016182	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.841	-0.002	81	802603	3.96	

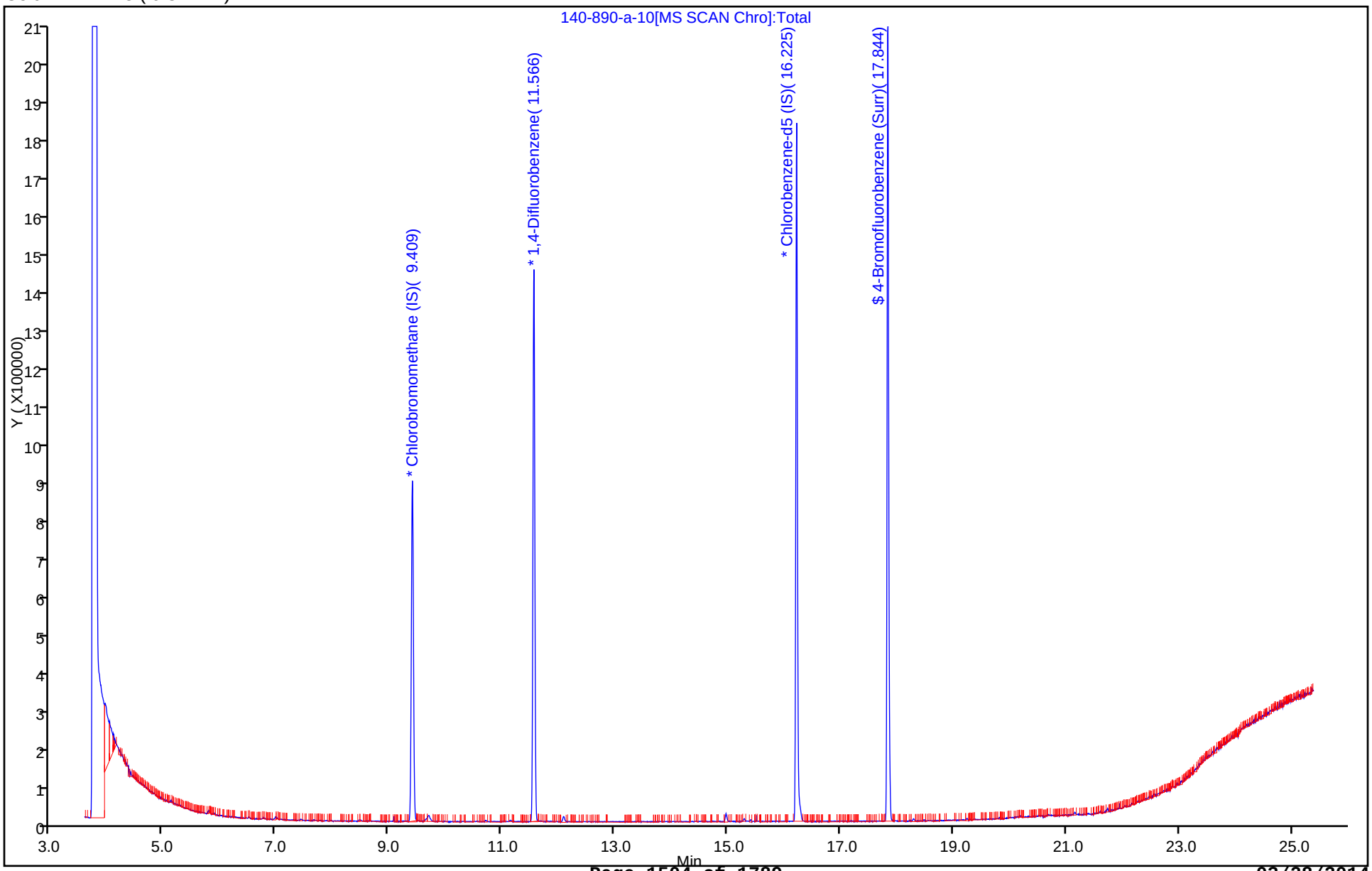
Report Date: 19-Feb-2014 07:51:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D

Injection Date:	19-Feb-2014 00:31:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-10	Lab Sample ID:	140-890-10	Worklist Smp#:	16
Client ID:	10716				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.065		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D
Lims ID: 140-890-A-11 Lab Sample ID: 140-890-11
Client ID: 10332
Sample Type: Client
Inject. Date: 19-Feb-2014 01:27:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10332
Misc. Info.: J021814,TO15,,140-0000448-017
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:54:41 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.408	9.411	-0.003	94	253024	4.00	
* 2 1,4-Difluorobenzene	114	11.565	11.568	-0.003	97	1223072	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	93	1007290	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	81	787777	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.397	0.002	85	11803	0.0568	
73 Tetrachloroethene	129	15.406	15.409	-0.003	73	5816	0.0649	

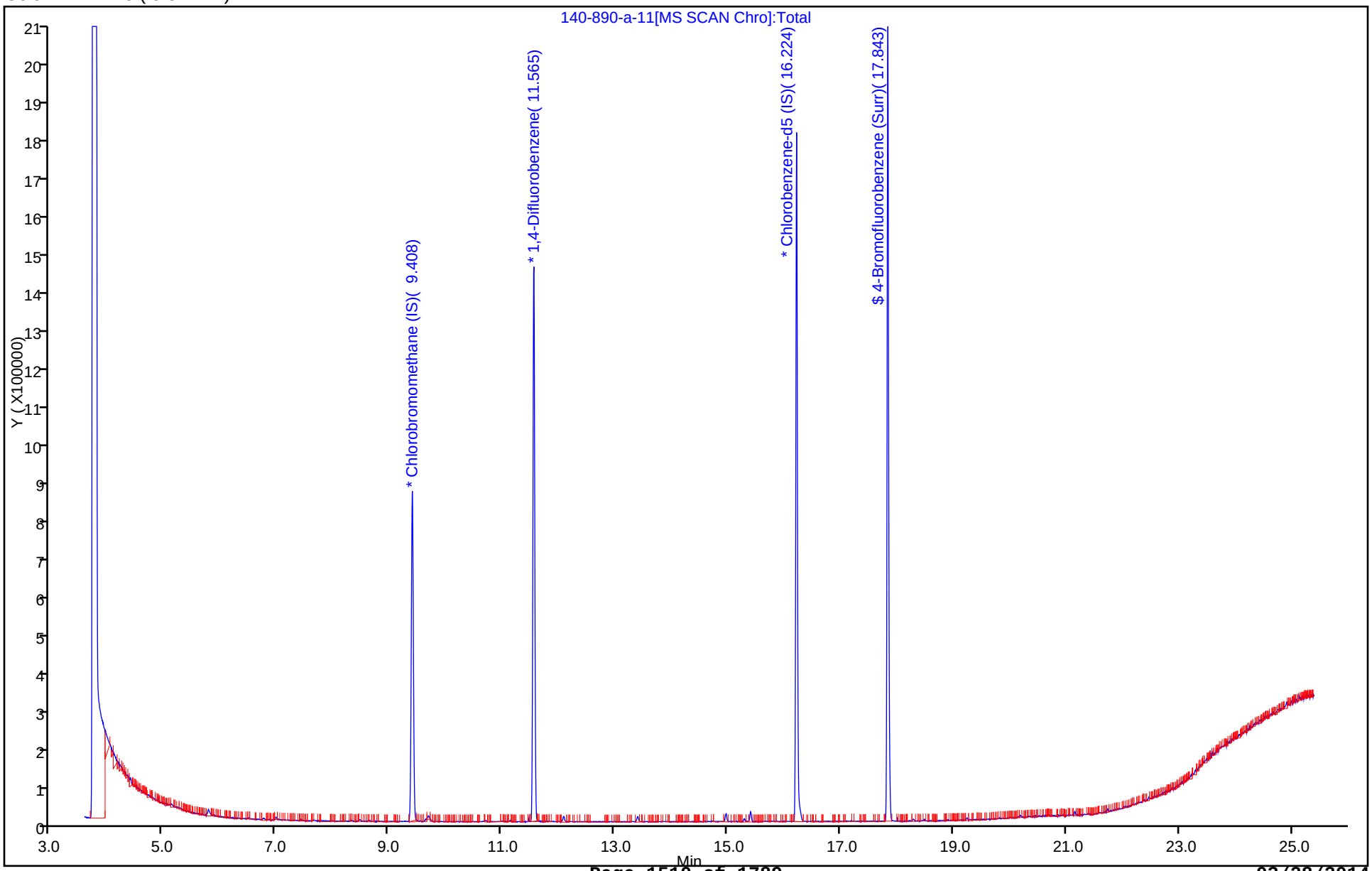
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11	Worklist Smp#:	17
Client ID:	10332				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



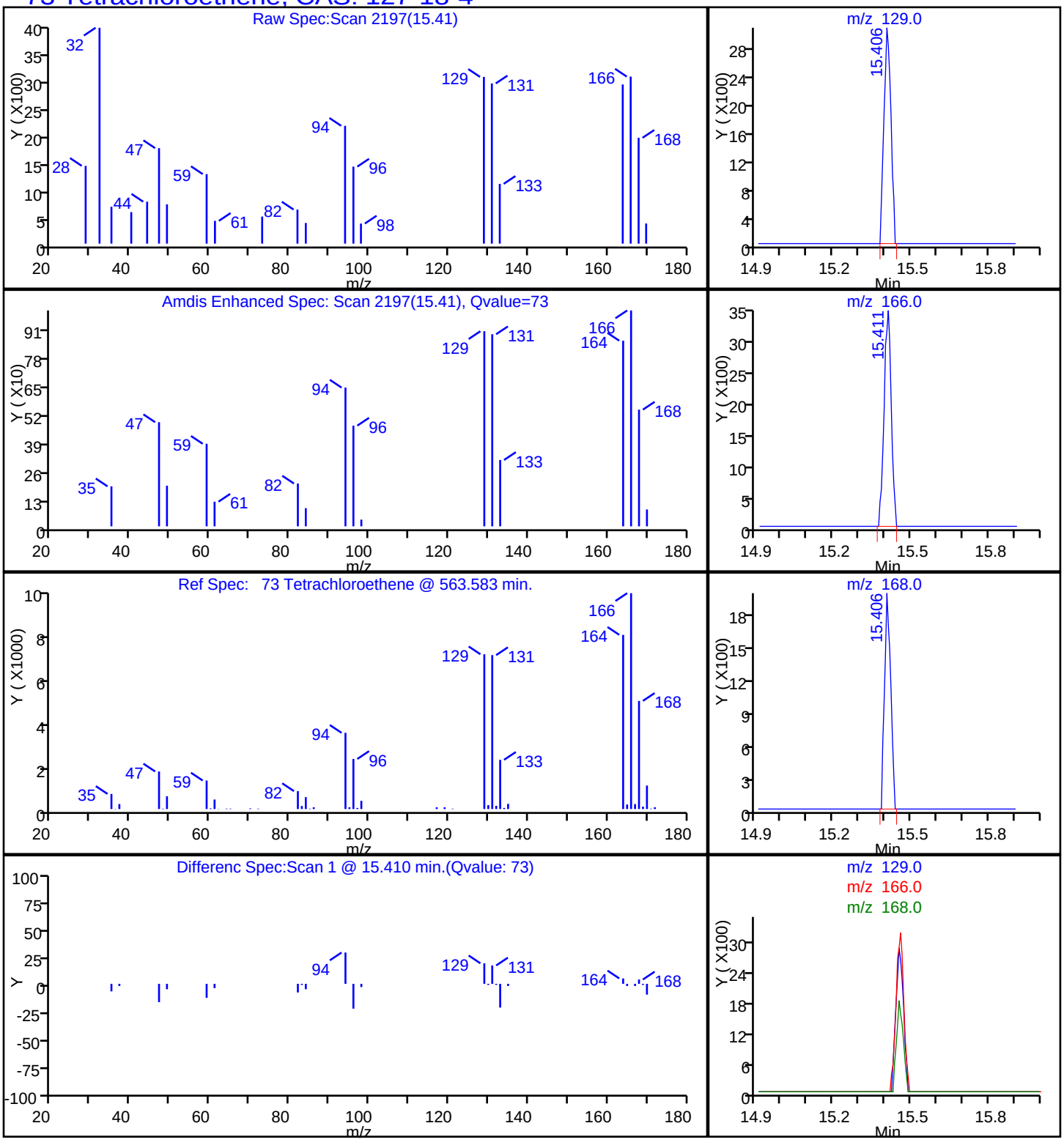
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ		
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11		
Client ID:	10332				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 Lab Sample ID: 140-890-13

Matrix: Air Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 Lab Sample ID: 140-890-13

Matrix: Air Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 Lab Sample ID: 140-890-13

Matrix: Air Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D				
Lims ID:	140-890-A-13	Lab Sample ID:	140-890-13		
Client ID:	09675				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 03:16:30	ALS Bottle#:	10	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09675				
Misc. Info.:	J021814,TO15,,140-0000448-019				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 07:57:17	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 07:57:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.411	0.001	94	254679	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.568	-0.004	97	1217733	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.227	-0.005	93	1047481	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.841	0.0	82	841261	4.03	
9 Chloromethane	52	4.231	4.231	0.0	47	2838	0.0864	
47 n-Butanol	31	10.988	10.966	0.022	58	1764	0.0399	
62 4-Methyl-2-pentanone (MIBK)	43	13.409	13.397	0.012	86	8200	0.0397	

Report Date: 19-Feb-2014 07:57:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D

Injection Date:	19-Feb-2014 03:16:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-13	Lab Sample ID:	140-890-13	Worklist Smp#:	19
Client ID:	09675				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D
Lims ID: 140-890-A-14 Lab Sample ID: 140-890-14
Client ID: 10005
Sample Type: Client
Inject. Date: 19-Feb-2014 04:11:30 ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10005
Misc. Info.: J021814,TO15,,140-0000448-020
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:57:39 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:57:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.403	9.411	-0.008	93	249140	4.00	
*	2 1,4-Difluorobenzene	114	11.560	11.568	-0.008	97	1242271	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	92	1006844	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	85	658099	3.28	
	62 4-Methyl-2-pentanone (MIBK)	43	13.405	13.397	0.008	76	8084	0.0383	

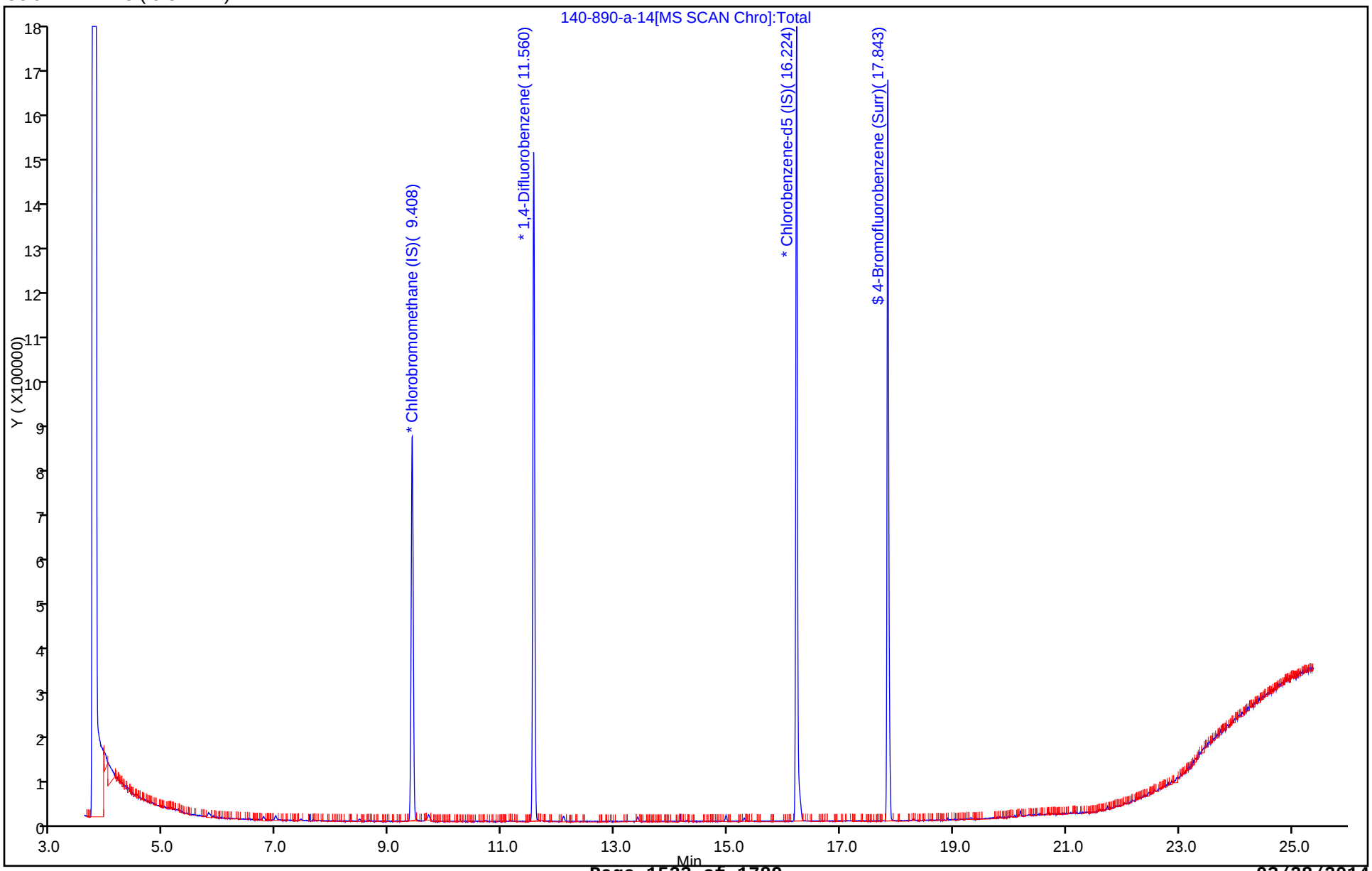
Report Date: 19-Feb-2014 07:57:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D

Injection Date:	19-Feb-2014 04:11:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-14	Lab Sample ID:	140-890-14	Worklist Smp#:	20
Client ID:	10005				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 | Lab Sample ID: 140-925-2

Matrix: Air | Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 | Lab Sample ID: 140-925-2

Matrix: Air | Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 | Lab Sample ID: 140-925-2

Matrix: Air | Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09597 Lab Sample ID: 140-925-2

Matrix: Air Lab File ID: 140-925-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D
Lims ID: 140-925-A-2 Lab Sample ID: 140-925-2
Client ID: 09597
Sample Type: Client
Inject. Date: 22-Feb-2014 03:01:30 ALS Bottle#: 9 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09597
Misc. Info.: J022114,TO15,,140-0000456-014
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 23-Feb-2014 13:40:23 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: barlozhetskayaa Date: 23-Feb-2014 13:40:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	391979	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.563	-0.001	94	1790004	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	93	1514247	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1151377	3.81	
33 Carbon disulfide	76	6.954	6.954	0.0	67	6210	0.0146	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.391	0.015	86	15435	0.0508	

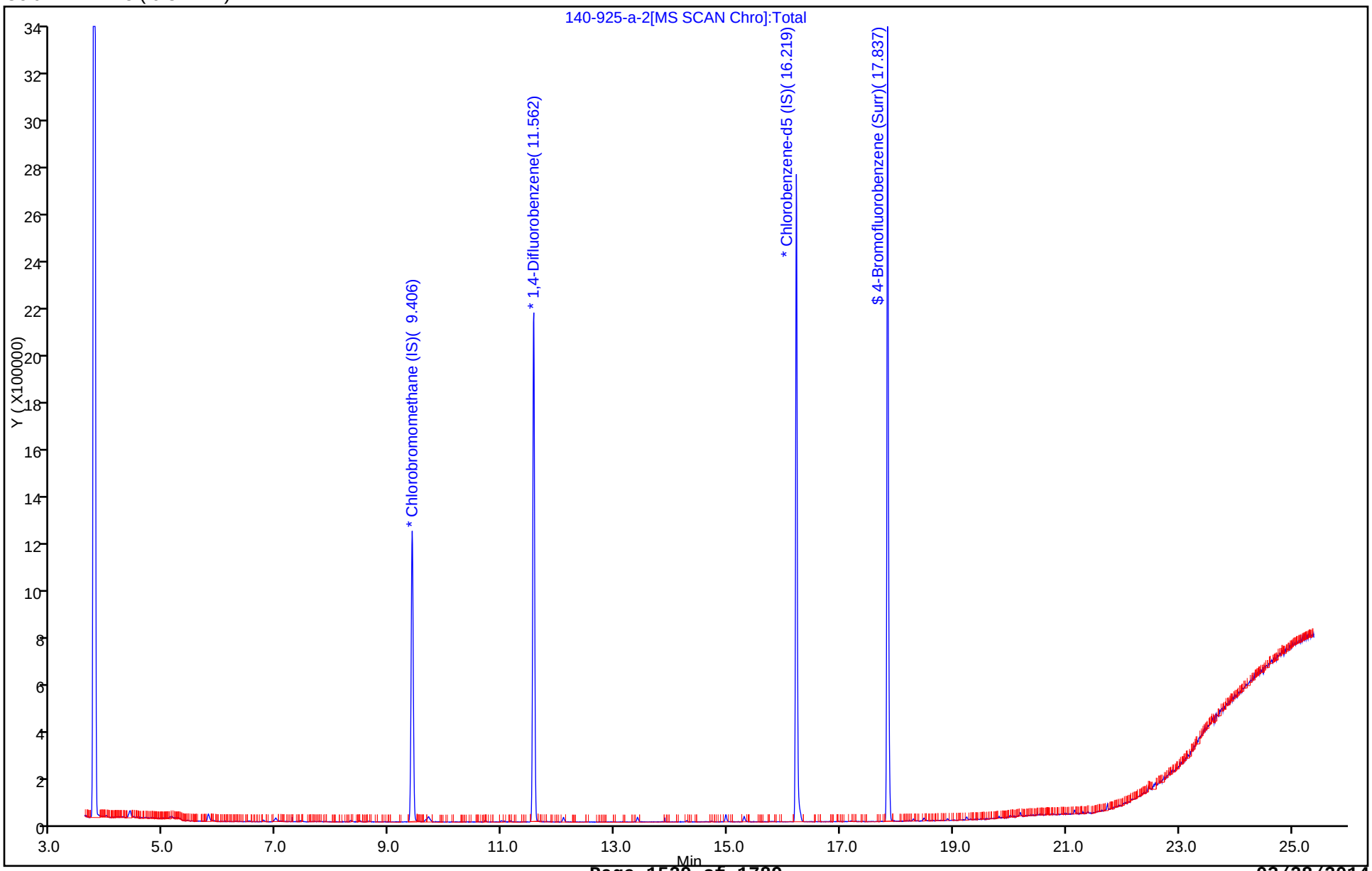
Report Date: 23-Feb-2014 13:40:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-2.D

Injection Date:	22-Feb-2014 03:01:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-2	Lab Sample ID:	140-925-2	Worklist Smp#:	14
Client ID:	09597				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 | Lab Sample ID: 140-925-4

Matrix: Air | Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10542 Lab Sample ID: 140-925-4

Matrix: Air Lab File ID: 140-925-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 04:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D				
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4		
Client ID:	10542				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 04:49:30	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10542				
Misc. Info.:	J022114,TO15,,140-0000456-016				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:41:42	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:41:42		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.406	0.001	90	394384	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.563	-0.005	94	1771461	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	92	1549526	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.838	0.0	85	1193025	3.86	
48 Benzene	78	11.036	11.046	-0.010	64	10055	0.0272	

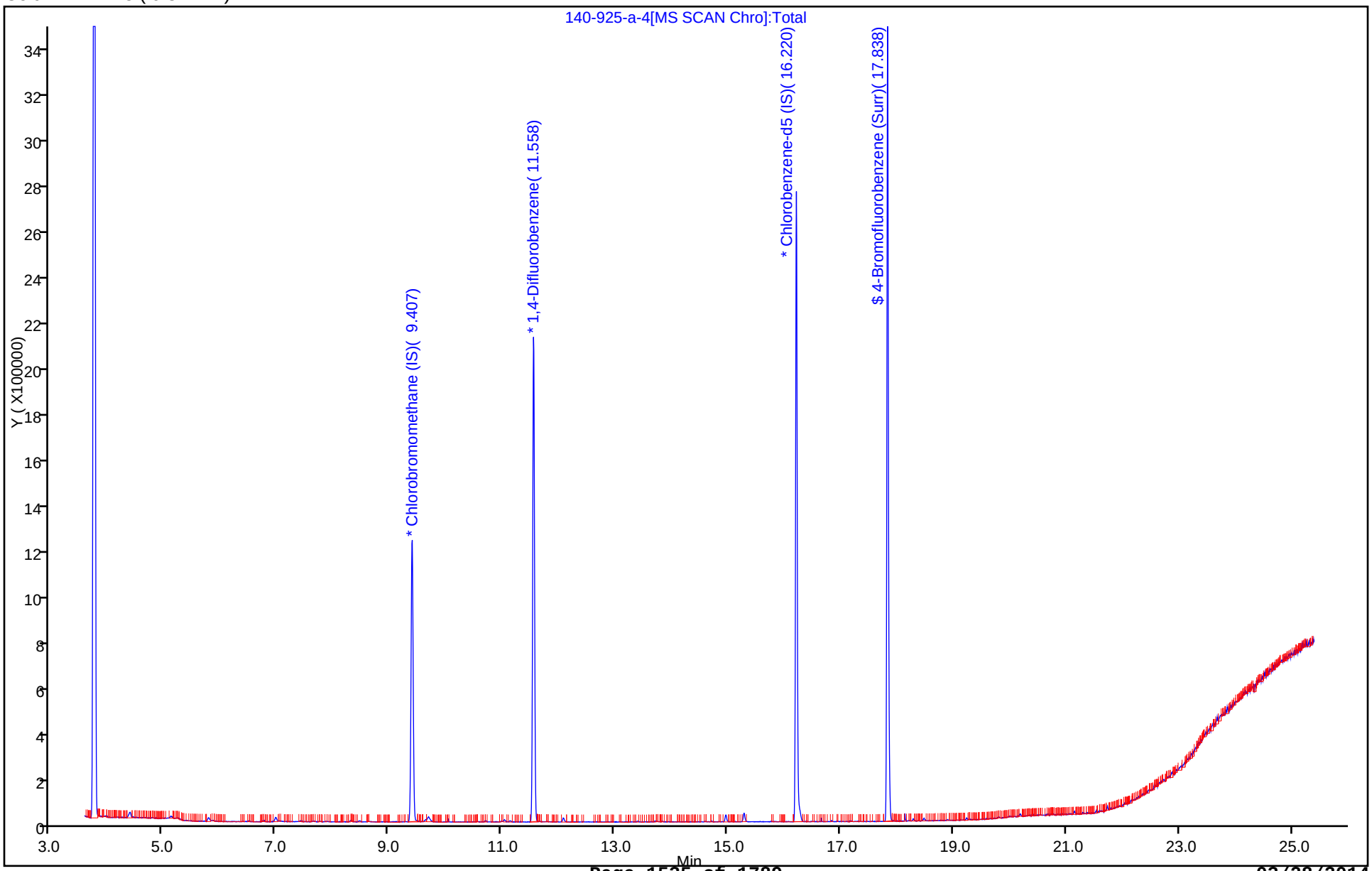
Report Date: 23-Feb-2014 13:41:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-4.D

Injection Date:	22-Feb-2014 04:49:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-4	Lab Sample ID:	140-925-4	Worklist Smp#:	16
Client ID:	10542				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 | Lab Sample ID: 140-925-5

Matrix: Air | Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 10129 Lab Sample ID: 140-925-5

Matrix: Air Lab File ID: 140-925-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 05:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D				
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5		
Client ID:	10129				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 05:47:30	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10129				
Misc. Info.:	J022114,TO15,,140-0000456-017				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:06	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.405	9.406	-0.001	90	397178	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.563	-0.007	94	1754424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.218	16.219	-0.001	92	1457502	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1122664	3.86	
33 Carbon disulfide	76	6.953	6.954	-0.001	83	15054	0.0350	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.391	0.010	86	15750	0.0529	

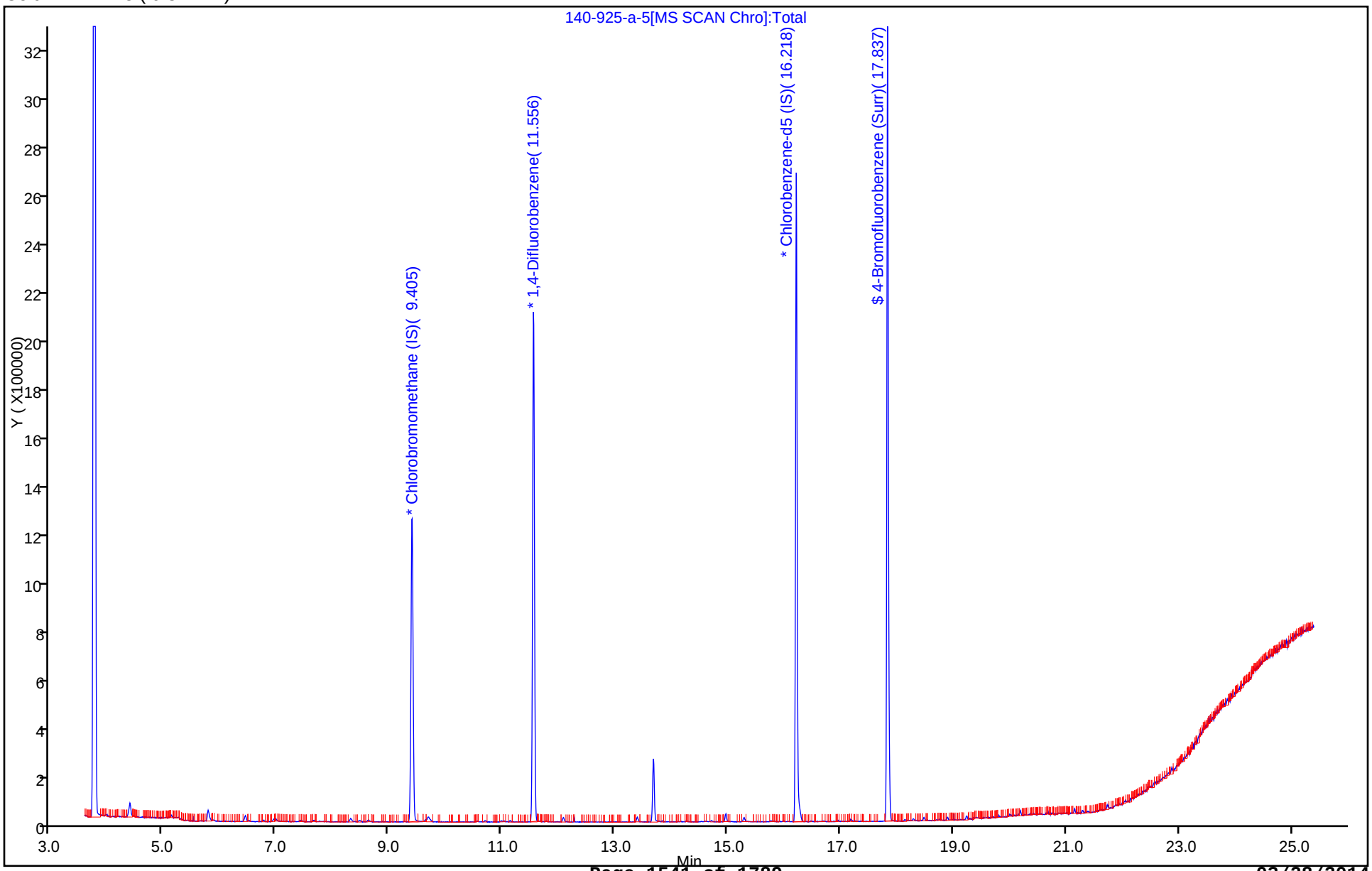
Report Date: 23-Feb-2014 13:42:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-5.D

Injection Date:	22-Feb-2014 05:47:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-5	Lab Sample ID:	140-925-5	Worklist Smp#:	17
Client ID:	10129				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 | Lab Sample ID: 140-925-6

Matrix: Air | Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 09523 Lab Sample ID: 140-925-6

Matrix: Air Lab File ID: 140-925-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D				
Lims ID:	140-925-A-6	Lab Sample ID:	140-925-6		
Client ID:	09523				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 06:44:30	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09523				
Misc. Info.:	J022114,TO15,,140-0000456-018				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:28	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:28		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.406	9.406	0.0	90	390393	4.00	
* 2 1,4-Difluorobenzene	114	11.557	11.563	-0.006	94	1697205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.0	92	1375423	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.837	17.838	-0.001	85	1032684	3.76	
46 1,2-Dichloroethane	62	10.556	10.562	-0.006	75	13973	0.0713	
47 n-Butanol	31	10.981	10.960	0.021	65	2774	0.0451	
62 4-Methyl-2-pentanone (MIBK)	43	13.396	13.391	0.005	82	16426	0.0570	

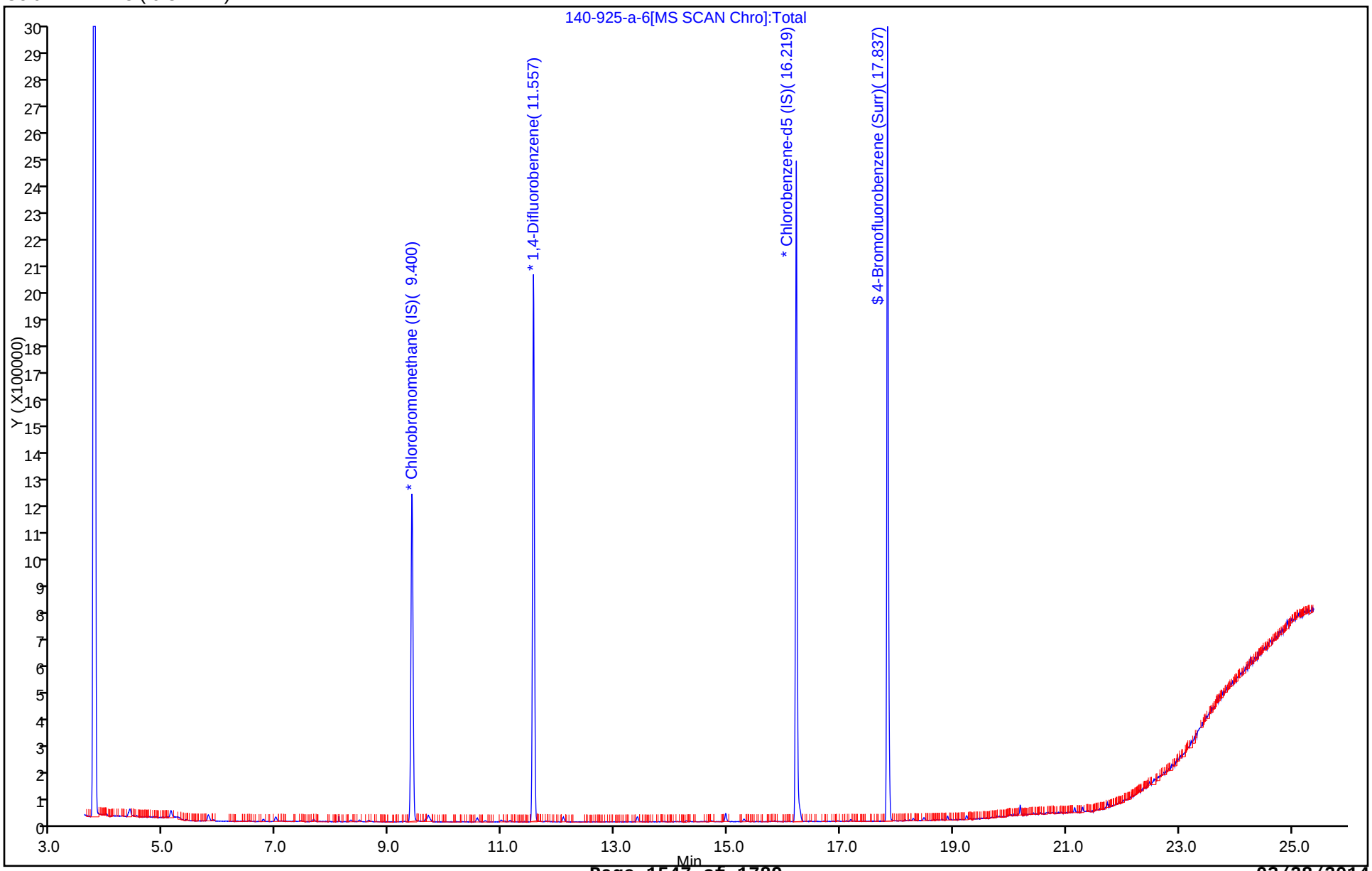
Report Date: 23-Feb-2014 13:42:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-6.D

Injection Date:	22-Feb-2014 06:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-6	Lab Sample ID:	140-925-6	Worklist Smp#:	18
Client ID:	09523				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND	*	0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 | Lab Sample ID: 140-925-7

Matrix: Air | Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND	*	0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND	*	0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 | Lab Sample ID: 140-925-7

Matrix: Air | Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 864 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11047 Lab Sample ID: 140-925-7

Matrix: Air Lab File ID: 140-925-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/22/2014 07:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D				
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7		
Client ID:	11047				
Sample Type:	Client				
Inject. Date:	22-Feb-2014 07:41:30	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11047				
Misc. Info.:	J022114,TO15,,140-0000456-019				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140220-456.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	23-Feb-2014 13:42:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK028				
First Level Reviewer: barlozhetskayaa		Date:	23-Feb-2014 13:42:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.404	9.406	-0.002	90	385860	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.563	-0.003	94	1670343	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.217	16.219	-0.002	92	1364203	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.838	-0.003	86	1052795	3.87	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.391	0.008	82	17122	0.0604	
65 Toluene	91	14.270	14.273	-0.003	81	21345	0.0651	

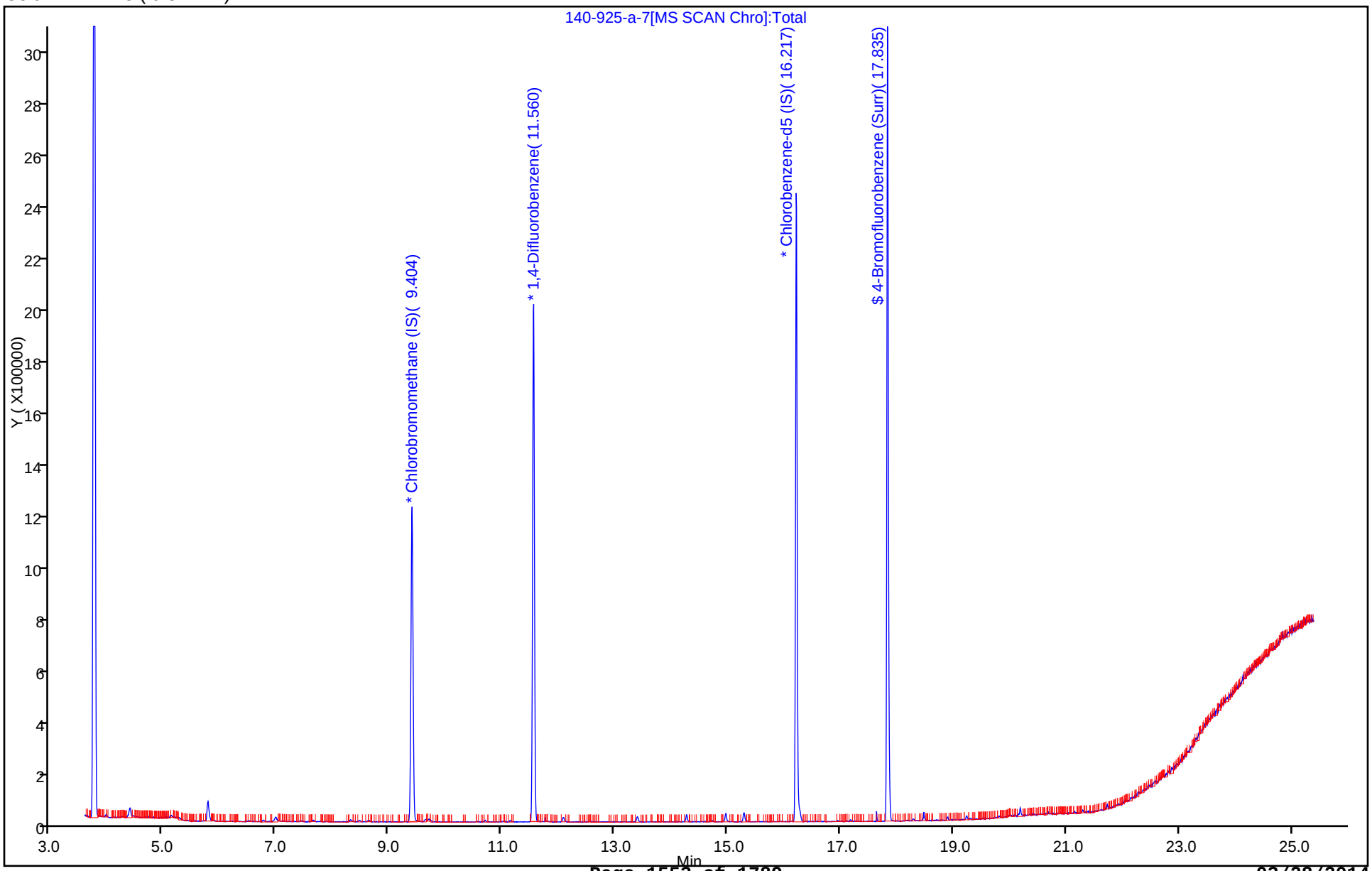
Report Date: 23-Feb-2014 13:42:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140220-456.b\140-925-a-7.D

Injection Date:	22-Feb-2014 07:41:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-925-A-7	Lab Sample ID:	140-925-7	Worklist Smp#:	19
Client ID:	11047				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 | Lab Sample ID: 140-925-9

Matrix: Air | Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11044 Lab Sample ID: 140-925-9

Matrix: Air Lab File ID: 140-925-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 16:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D				
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9		
Client ID:	11044				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 16:31:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11044				
Misc. Info.:	E022414,TO155,,140-0000468-011				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 08:44:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 08:44:08		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	259377	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1288482	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	91	1122866	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	963749	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	5912	0.0387	

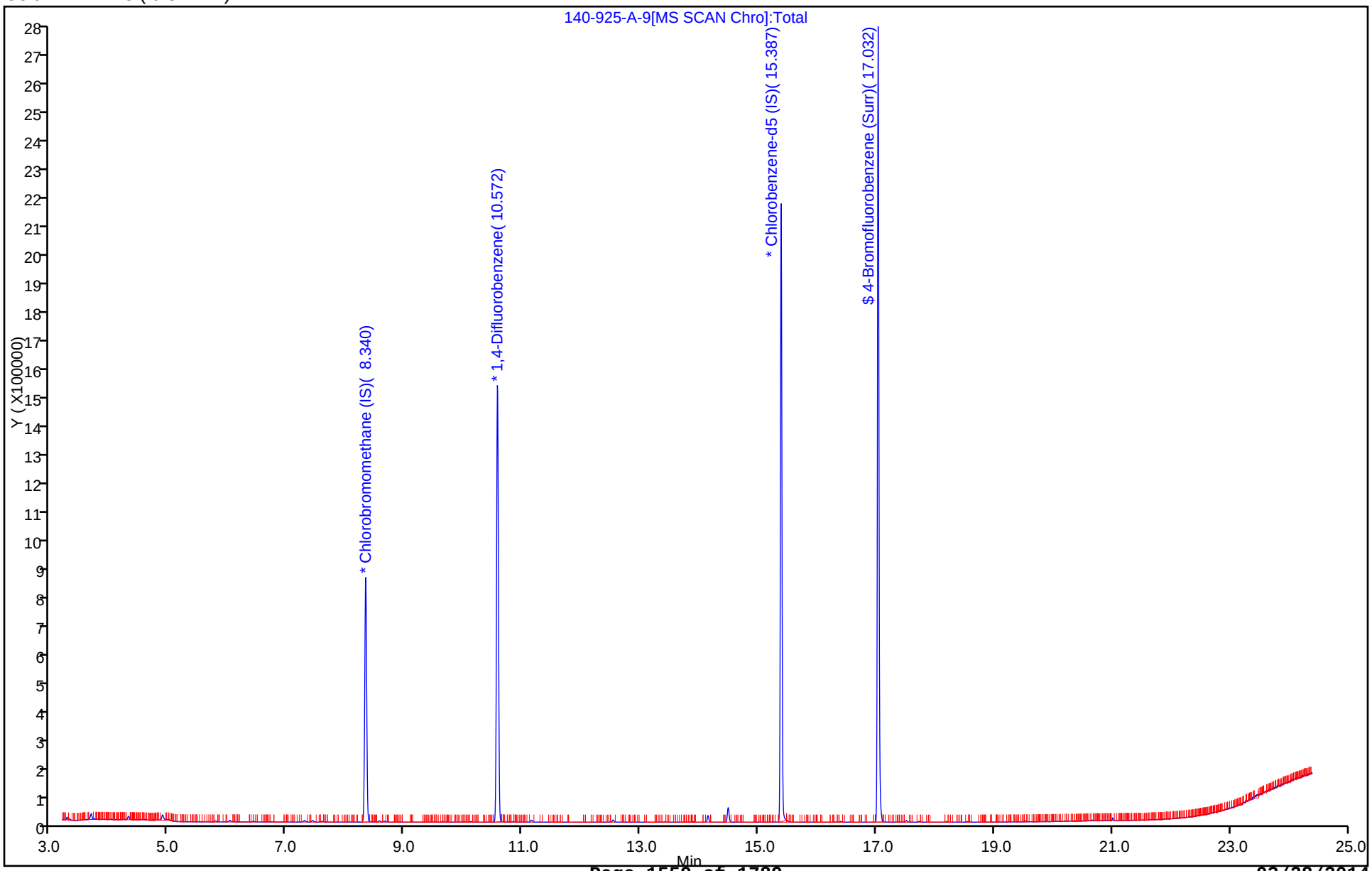
Report Date: 25-Feb-2014 08:44:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-9.D

Injection Date:	24-Feb-2014 16:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-9	Lab Sample ID:	140-925-9	Worklist Smp#:	11
Client ID:	11044				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 | Lab Sample ID: 140-925-11

Matrix: Air | Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-925-1

SDG No.:

Client Sample ID: 11040 Lab Sample ID: 140-925-11

Matrix: Air Lab File ID: 140-925-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/20/2014 09:35

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 18:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D
Lims ID: 140-925-A-11 Lab Sample ID: 140-925-11
Client ID: 11040
Sample Type: Client
Inject. Date: 24-Feb-2014 18:02:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 11040
Misc. Info.: E022414,TO155,,140-0000468-013
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:46:43 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:46:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	258218	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1302196	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1151791	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1004151	3.98	
7 Propene	41	3.314	3.314	0.0	89	3530	0.0543	
33 Carbon disulfide	76	5.945	5.951	-0.006	88	10822	0.0405	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	80	6774	0.0439	

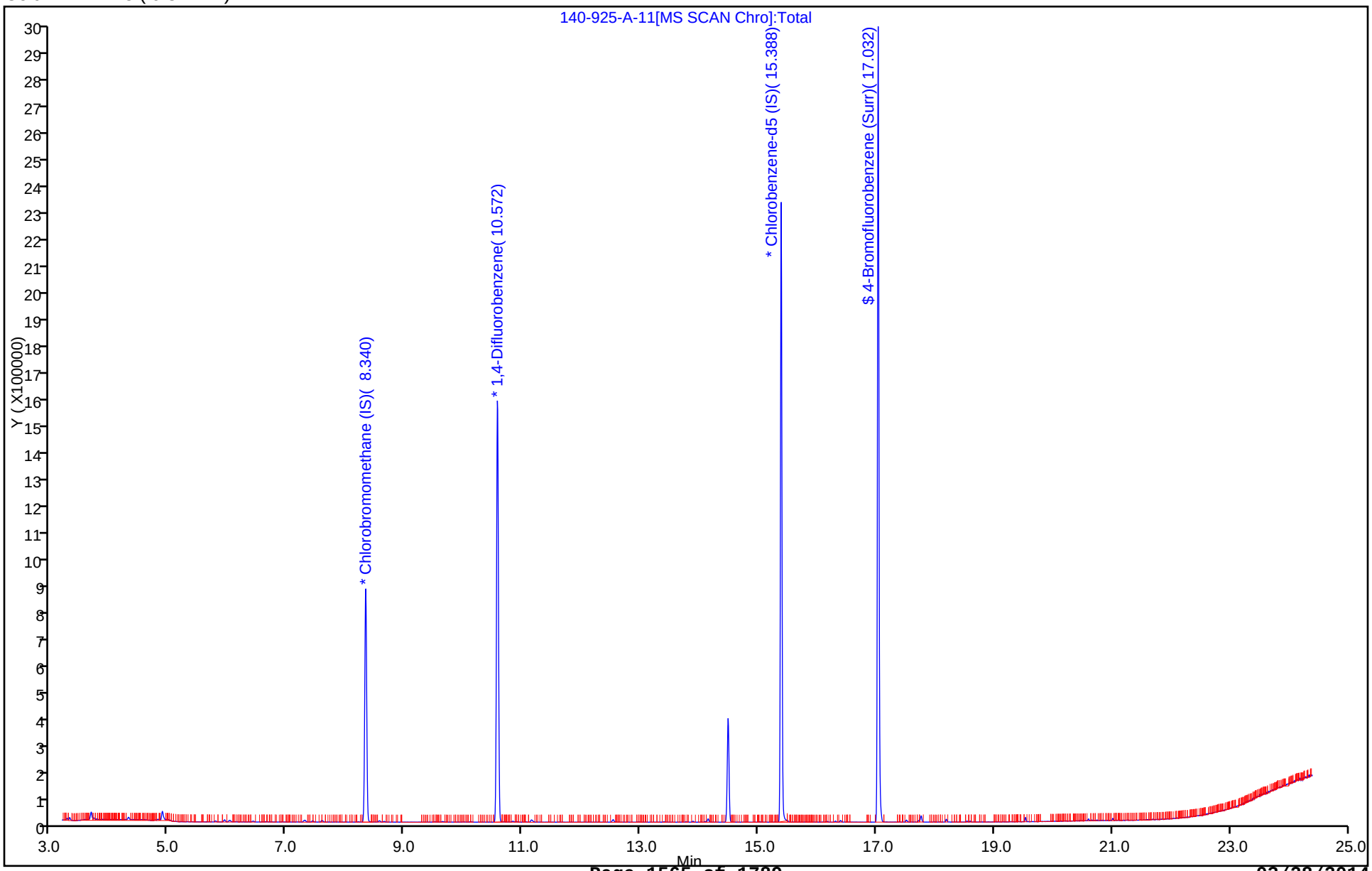
Report Date: 25-Feb-2014 08:46:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-925-A-11.D

Injection Date:	24-Feb-2014 18:02:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-925-A-11	Lab Sample ID:	140-925-11	Worklist Smp#:	13
Client ID:	11040				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 | Lab Sample ID: 140-959-1

Matrix: Air | Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 | Lab Sample ID: 140-959-1

Matrix: Air | Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 | Lab Sample ID: 140-959-1

Matrix: Air | Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 Lab Sample ID: 140-959-1

Matrix: Air Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D
Lims ID: 140-959-A-1 Lab Sample ID: 140-959-1
Client ID: 10120
Sample Type: Client
Inject. Date: 01-Mar-2014 09:16:30 ALS Bottle#: 5 Worklist Smp#: 27
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10120
Misc. Info.: J022814,TO15,,140-0000480-027
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tajh Date: 03-Mar-2014 08:19:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208834	4.00	
*	2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	980719	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	805864	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	632837	3.94	
	62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	84	15220	0.0914	

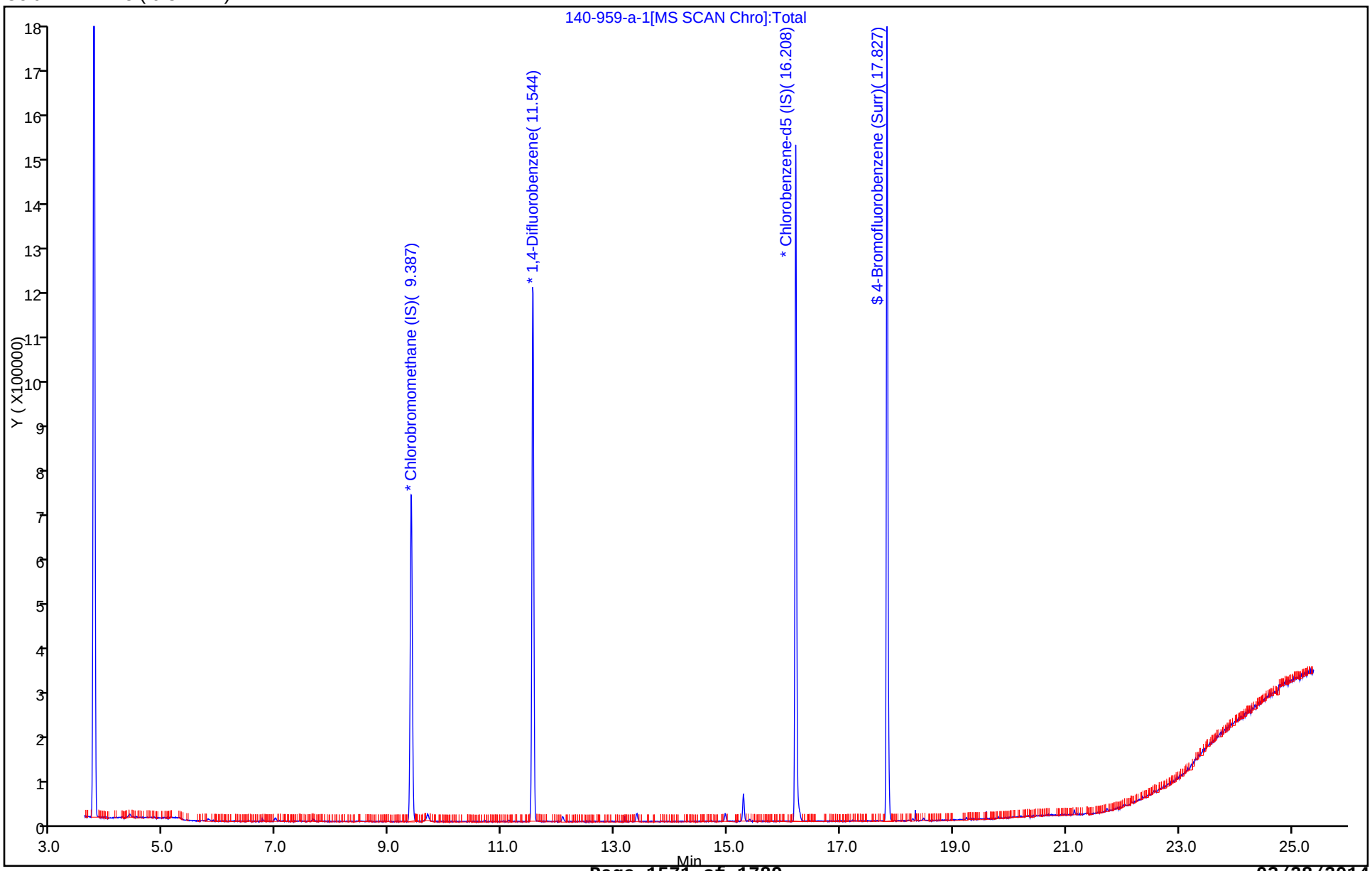
Report Date: 03-Mar-2014 12:18:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D

Injection Date:	01-Mar-2014 09:16:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-1	Lab Sample ID:	140-959-1	Worklist Smp#:	27
Client ID:	10120				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 | Lab Sample ID: 140-959-2

Matrix: Air | Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 | Lab Sample ID: 140-959-2

Matrix: Air | Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 | Lab Sample ID: 140-959-2

Matrix: Air | Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 Lab Sample ID: 140-959-2

Matrix: Air Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D
Lims ID: 140-959-A-2 Lab Sample ID: 140-959-2
Client ID: 09819
Sample Type: Client
Inject. Date: 01-Mar-2014 10:11:30 ALS Bottle#: 6 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09819
Misc. Info.: J022814,TO15,,140-0000480-028
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tajh Date: 03-Mar-2014 08:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208112	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	956583	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	790948	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	614966	3.90	
28 2-Methyl-2-propanol	59	6.509	6.480	0.029	57	3328	0.0266	
62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	88	24740	0.1523	

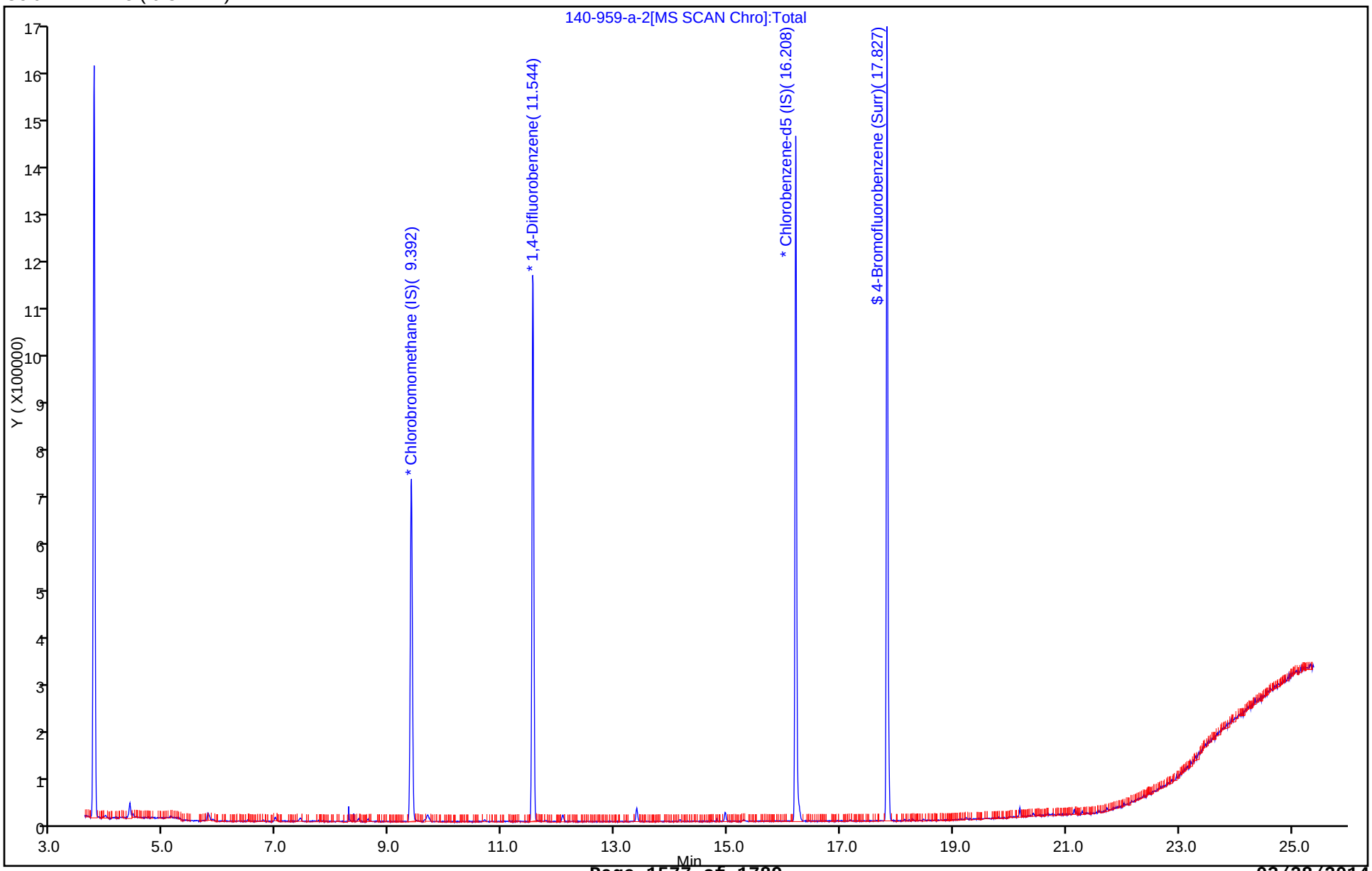
Report Date: 03-Mar-2014 08:20:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D

Injection Date:	01-Mar-2014 10:11:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-2	Lab Sample ID:	140-959-2	Worklist Smp#:	28
Client ID:	09819				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 | Lab Sample ID: 140-959-3

Matrix: Air | Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 | Lab Sample ID: 140-959-3

Matrix: Air | Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 Lab Sample ID: 140-959-3

Matrix: Air Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 Lab Sample ID: 140-959-3

Matrix: Air Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D
Lims ID: 140-959-A-3 Lab Sample ID: 140-959-3
Client ID: 10185
Sample Type: Client
Inject. Date: 03-Mar-2014 10:34:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10185
Misc. Info.: J030314,TO15,,140-0000490-004
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 06:48:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:51:26

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	199842	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	930867	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.214	16.212	0.002	93	759559	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	83	596717	3.94	

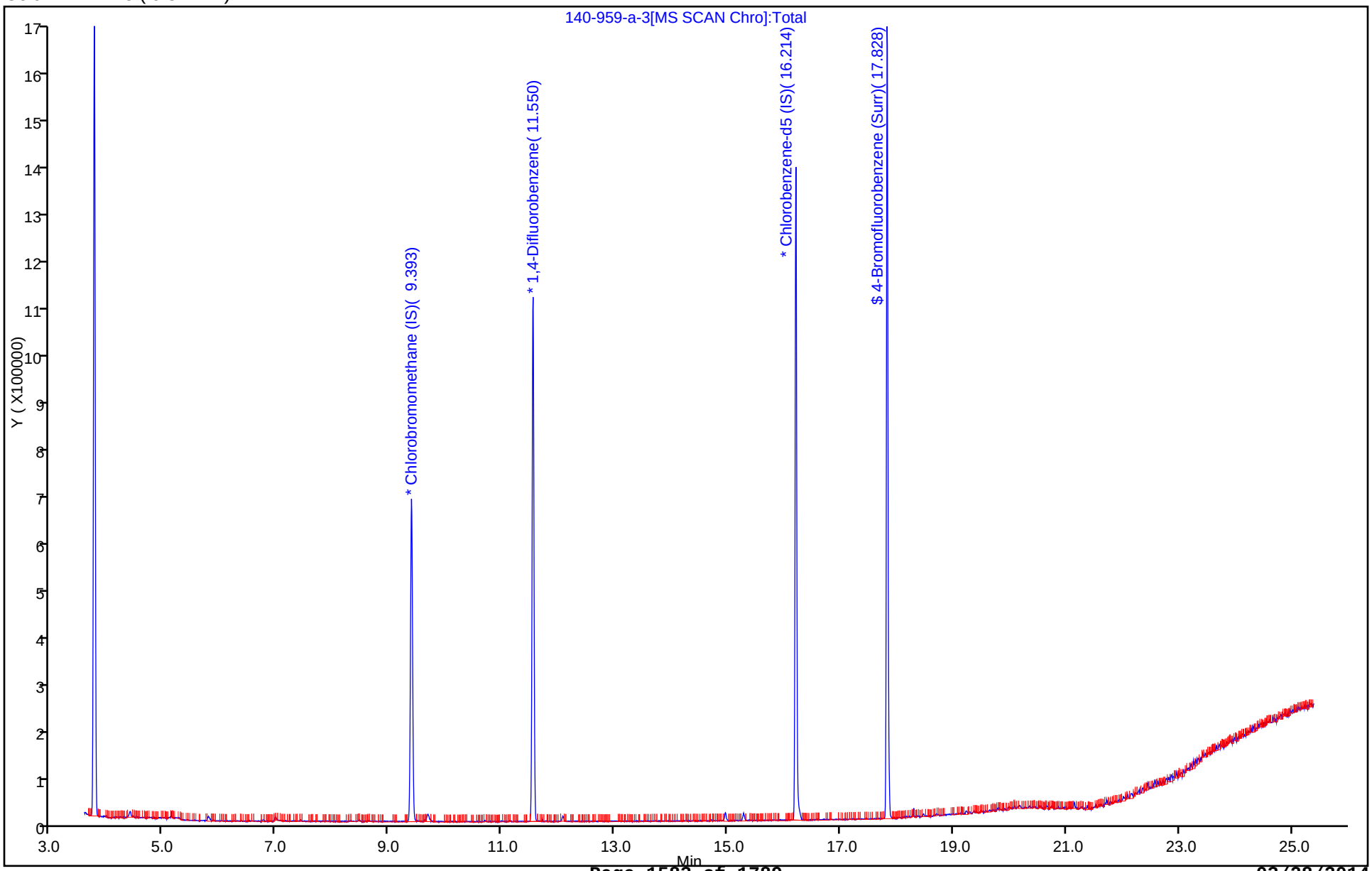
Report Date: 04-Mar-2014 08:51:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D

Injection Date:	03-Mar-2014 10:34:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-959-A-3	Lab Sample ID:	140-959-3	Worklist Smp#:	4
Client ID:	10185				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 | Lab Sample ID: 140-959-4

Matrix: Air | Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 | Lab Sample ID: 140-959-4

Matrix: Air | Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 Lab Sample ID: 140-959-4

Matrix: Air Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 Lab Sample ID: 140-959-4

Matrix: Air Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D
Lims ID: 140-959-A-4 Lab Sample ID: 140-959-4
Client ID: 10848
Sample Type: Client
Inject. Date: 03-Mar-2014 11:29:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10848
Misc. Info.: J030314,TO15,,140-0000490-004
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 12:37:55

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.400	9.402	-0.002	93	198839	4.00	
*	2 1,4-Difluorobenzene	114	11.552	11.553	-0.001	94	939904	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.211	16.212	-0.001	93	784853	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	83	609598	3.89	
	62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.383	0.015	47	4665	0.0292	

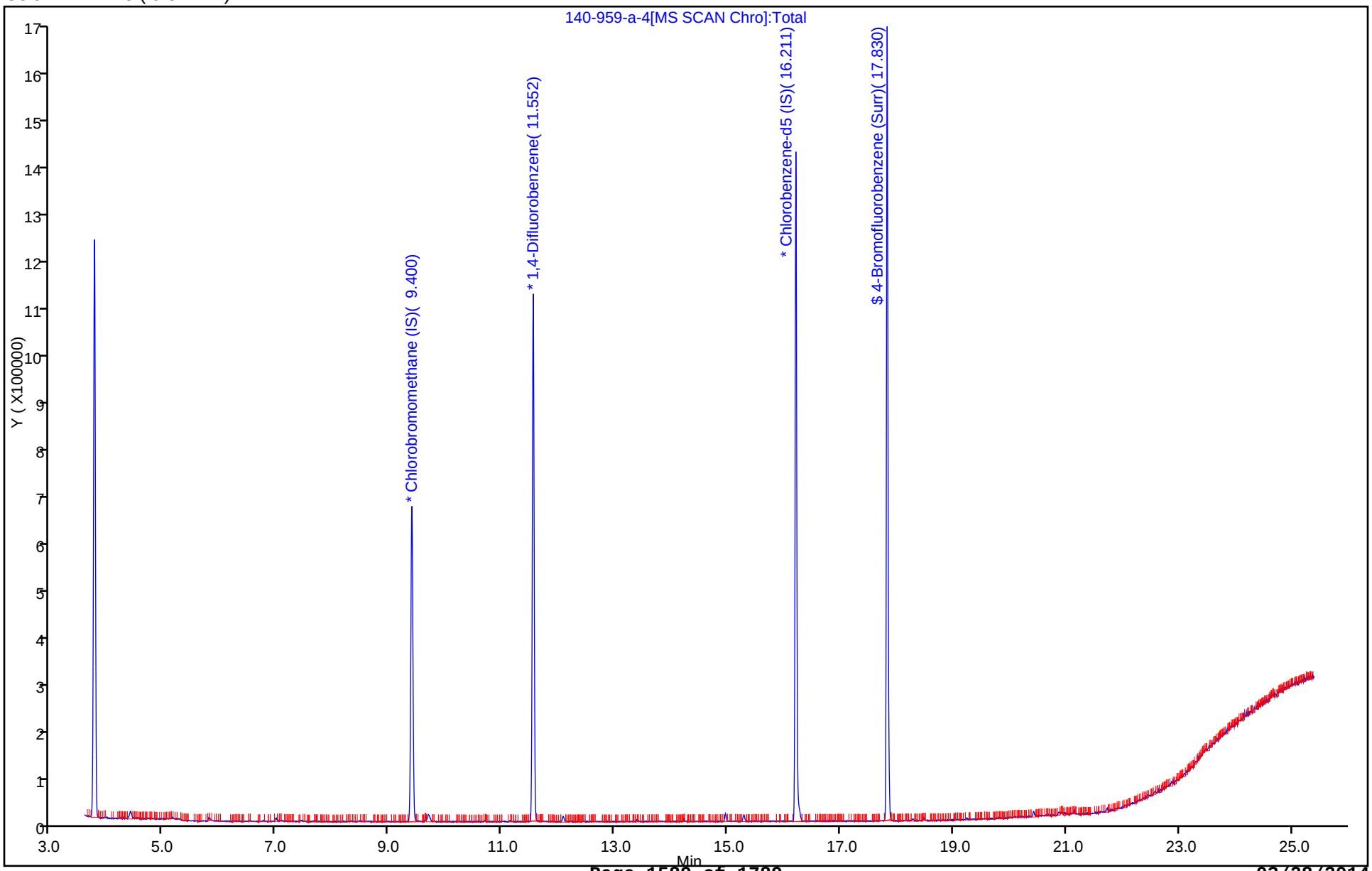
Report Date: 04-Mar-2014 07:30:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D

Injection Date:	03-Mar-2014 11:29:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-959-A-4	Lab Sample ID:	140-959-4	Worklist Smp#:	5
Client ID:	10848				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 | Lab Sample ID: 140-959-6

Matrix: Air | Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 | Lab Sample ID: 140-959-6

Matrix: Air | Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 | Lab Sample ID: 140-959-6

Matrix: Air | Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 Lab Sample ID: 140-959-6

Matrix: Air Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D				
Lims ID:	140-959-A-6	Lab Sample ID:	140-959-6		
Client ID:	10778				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 13:52:30	ALS Bottle#:	1	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10778				
Misc. Info.:	J030314,TO15,,140-0000490-007				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:26:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: barlozhetskayaa		Date:	03-Mar-2014 17:09:46		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.402	-0.015	93	189725	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	897457	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	711149	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	82	533899	3.76	
13 Butane	43	4.519	4.523	-0.004	74	3725	0.0345	
24 Isopropyl alcohol	45	5.858	5.857	0.001	49	5617	0.0511	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	83	15930	0.1045	

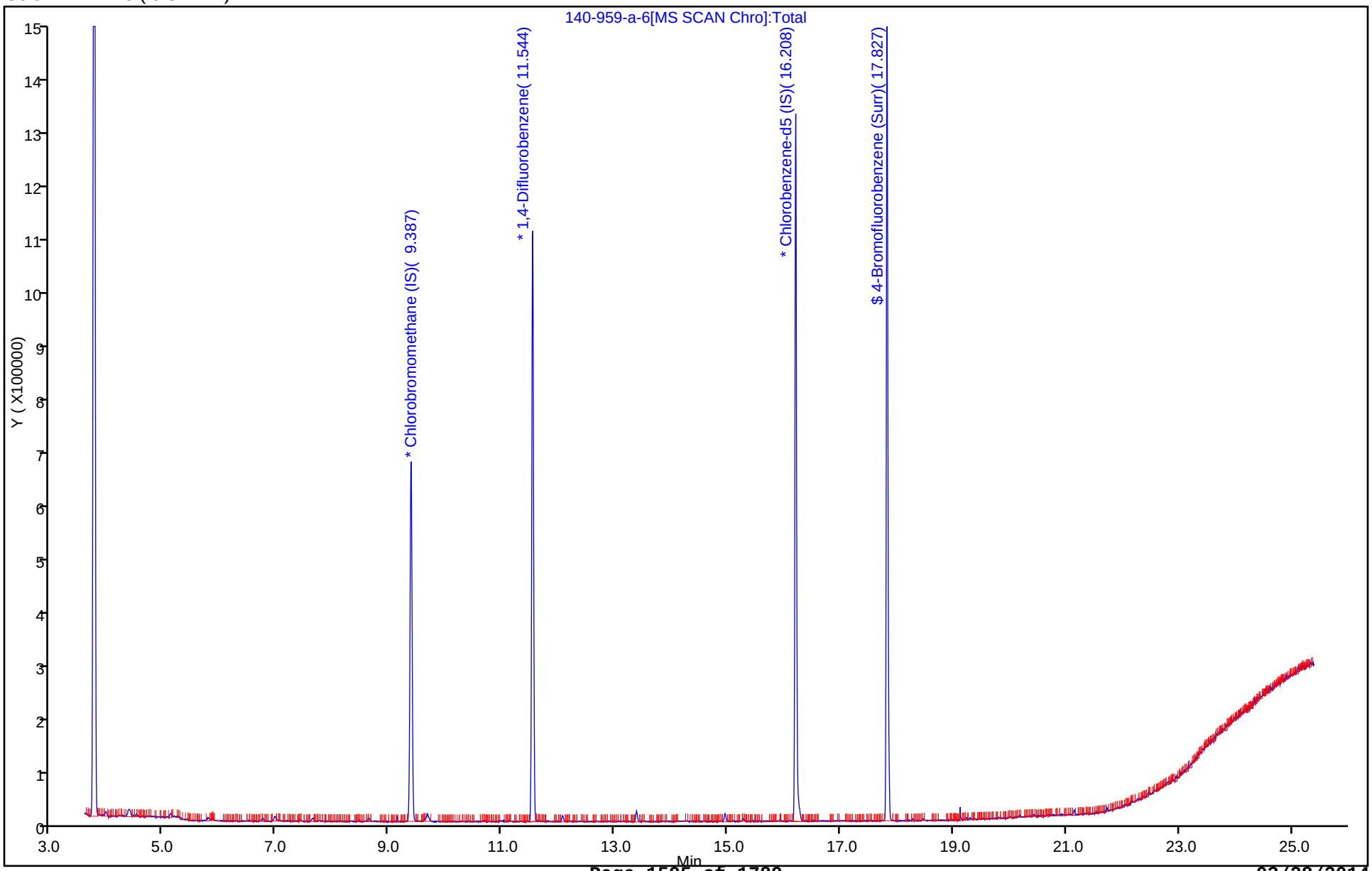
Report Date: 04-Mar-2014 07:30:34 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D

Injection Date:	03-Mar-2014 13:52:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-6	Lab Sample ID:	140-959-6	Worklist Smp#:	7
Client ID:	10778				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 Lab Sample ID: 140-959-7

Matrix: Air Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 | Lab Sample ID: 140-959-7

Matrix: Air | Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 Lab Sample ID: 140-959-7

Matrix: Air Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 Lab Sample ID: 140-959-7

Matrix: Air Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D
Lims ID: 140-959-A-7 Lab Sample ID: 140-959-7
Client ID: 10315
Sample Type: Client
Inject. Date: 03-Mar-2014 14:47:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10315
Misc. Info.: J030314,TO15,,140-0000490-008
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 17:10:10

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	92	188834	4.00	
*	2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	900379	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	757972	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	597016	3.95	
	62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	85	24559	0.1606	

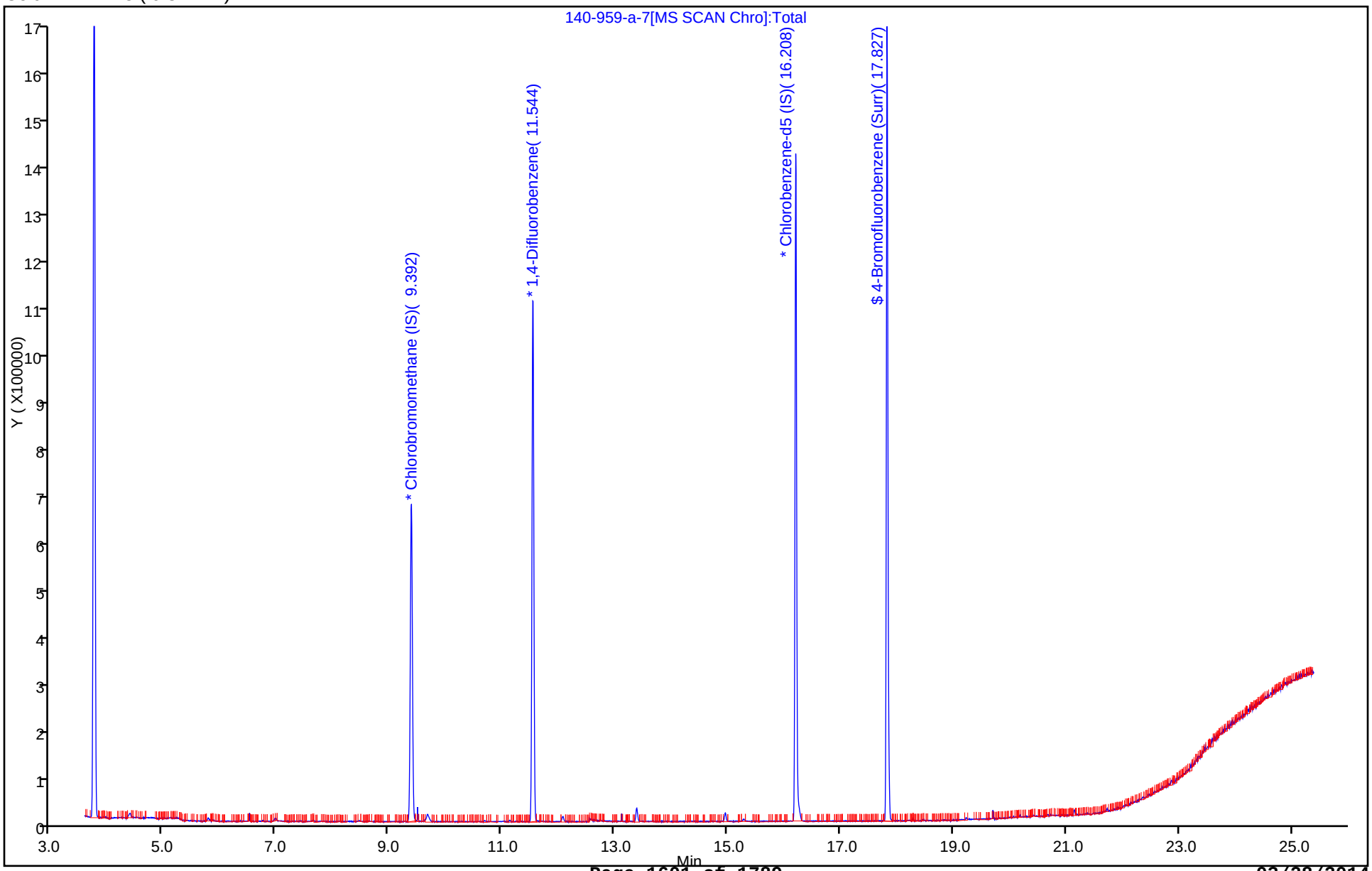
Report Date: 04-Mar-2014 07:30:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D

Injection Date:	03-Mar-2014 14:47:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-7	Lab Sample ID:	140-959-7	Worklist Smp#:	8
Client ID:	10315				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.20		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 Lab Sample ID: 140-959-8

Matrix: Air Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D
Lims ID: 140-959-A-8 Lab Sample ID: 140-959-8
Client ID: 09629
Sample Type: Client
Inject. Date: 03-Mar-2014 15:41:30 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09629
Misc. Info.: J030314,TO15,,140-0000490-009
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 17:12:13

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.389	9.402	-0.013	92	191903	4.00	
*	2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	877030	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	696616	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	85	540341	3.89	
	62 4-Methyl-2-pentanone (MIBK)	43	13.392	13.383	0.010	87	29040	0.1950	

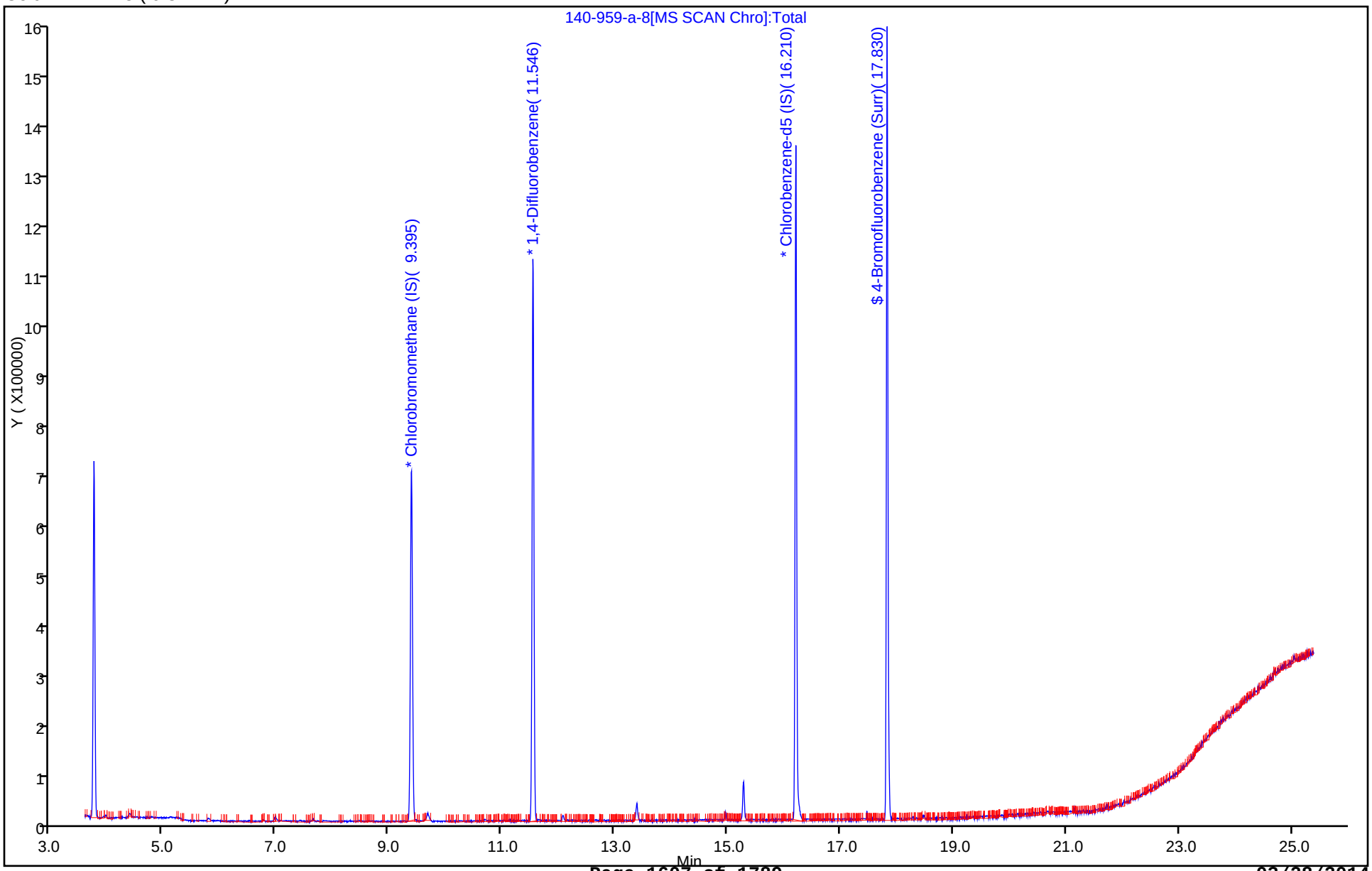
Report Date: 04-Mar-2014 07:30:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date:	03-Mar-2014 15:41:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-8	Lab Sample ID:	140-959-8	Worklist Smp#:	9
Client ID:	09629				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



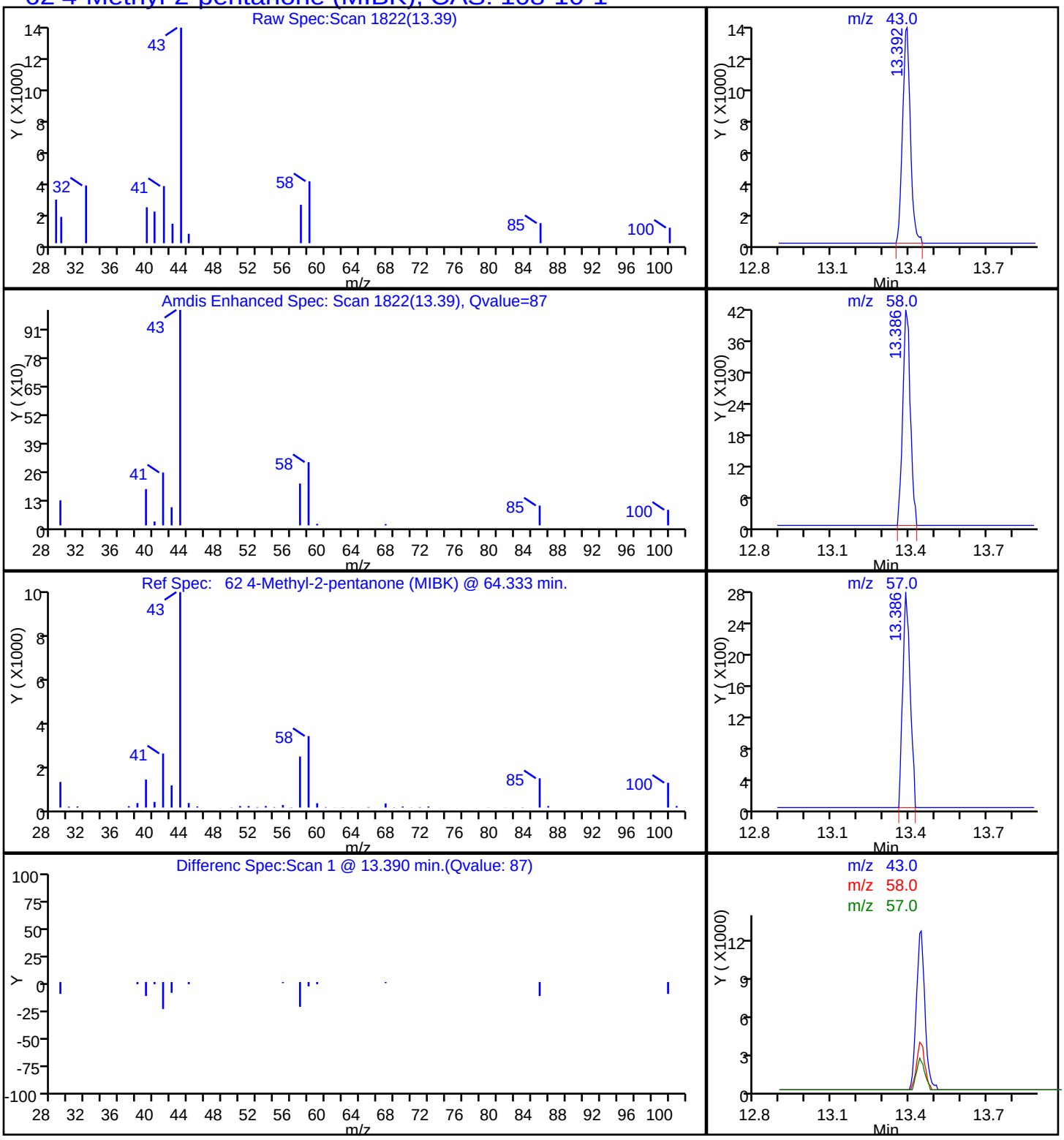
Report Date: 04-Mar-2014 07:30:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date:	03-Mar-2014 15:41:30	Instrument ID:	MJ		
Lims ID:	140-959-A-8	Lab Sample ID:	140-959-8		
Client ID:	09629				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 Lab Sample ID: 140-959-10

Matrix: Air Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D
Lims ID: 140-959-A-10 Lab Sample ID: 140-959-10
Client ID: 10719
Sample Type: Client
Inject. Date: 03-Mar-2014 17:30:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10719
Misc. Info.: J030314,TO15,,140-0000490-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:31:51 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:31:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	181700	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	836306	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	686661	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	537047	3.92	
33 Carbon disulfide	76	6.945	6.949	-0.004	88	8852	0.0450	

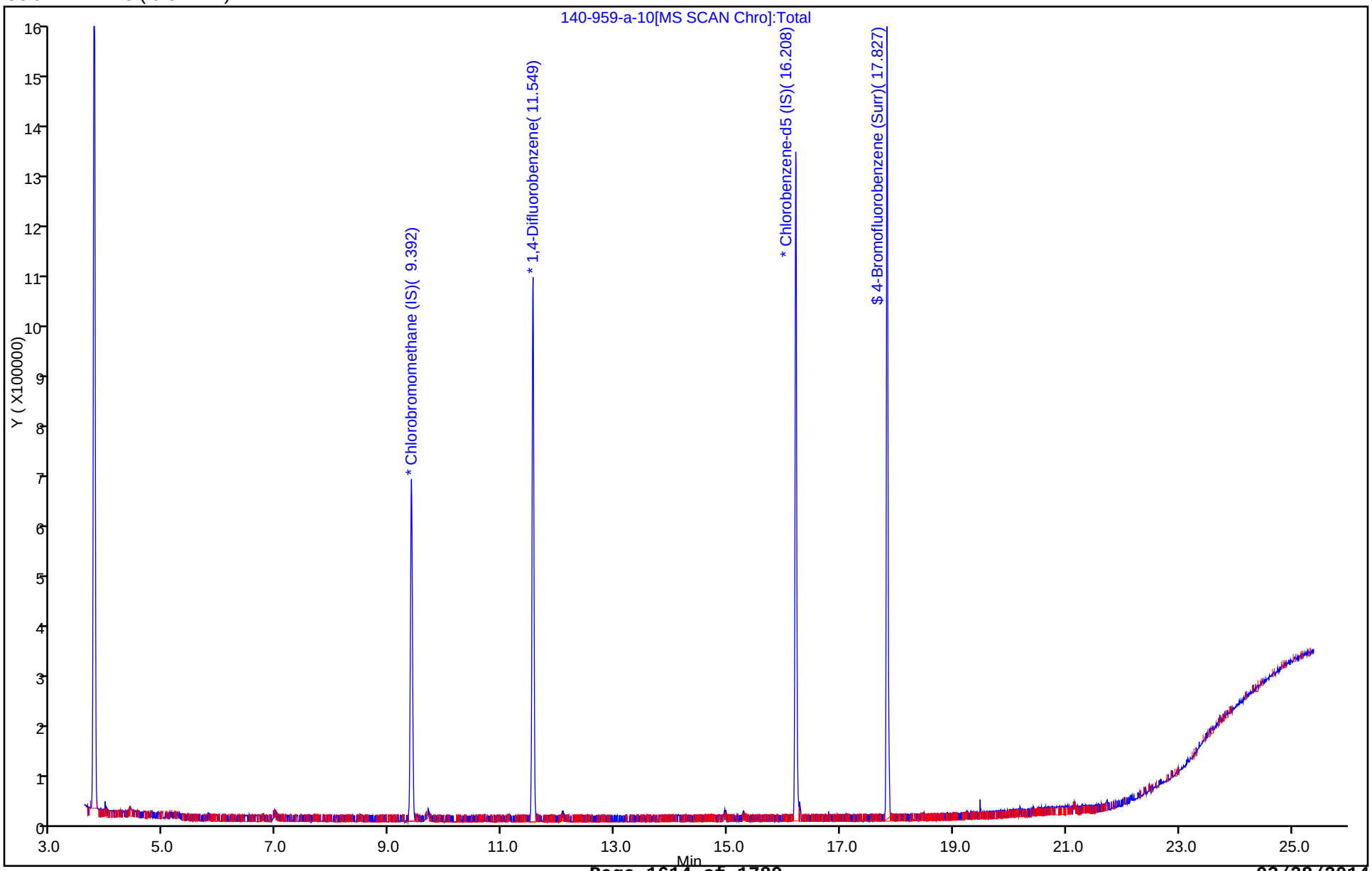
Report Date: 04-Mar-2014 07:31:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D

Injection Date:	03-Mar-2014 17:30:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-10	Lab Sample ID:	140-959-10	Worklist Smp#:	11
Client ID:	10719				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 | Lab Sample ID: 140-959-11

Matrix: Air | Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 | Lab Sample ID: 140-959-11

Matrix: Air | Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 | Lab Sample ID: 140-959-11

Matrix: Air | Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 Lab Sample ID: 140-959-11

Matrix: Air Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D				
Lims ID:	140-959-A-11	Lab Sample ID:	140-959-11		
Client ID:	09534				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 18:24:30	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09534				
Misc. Info.:	J030314,TO15,,140-0000490-012				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:32:19	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 07:32:19		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	188607	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	858612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	710639	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	547894	3.86	

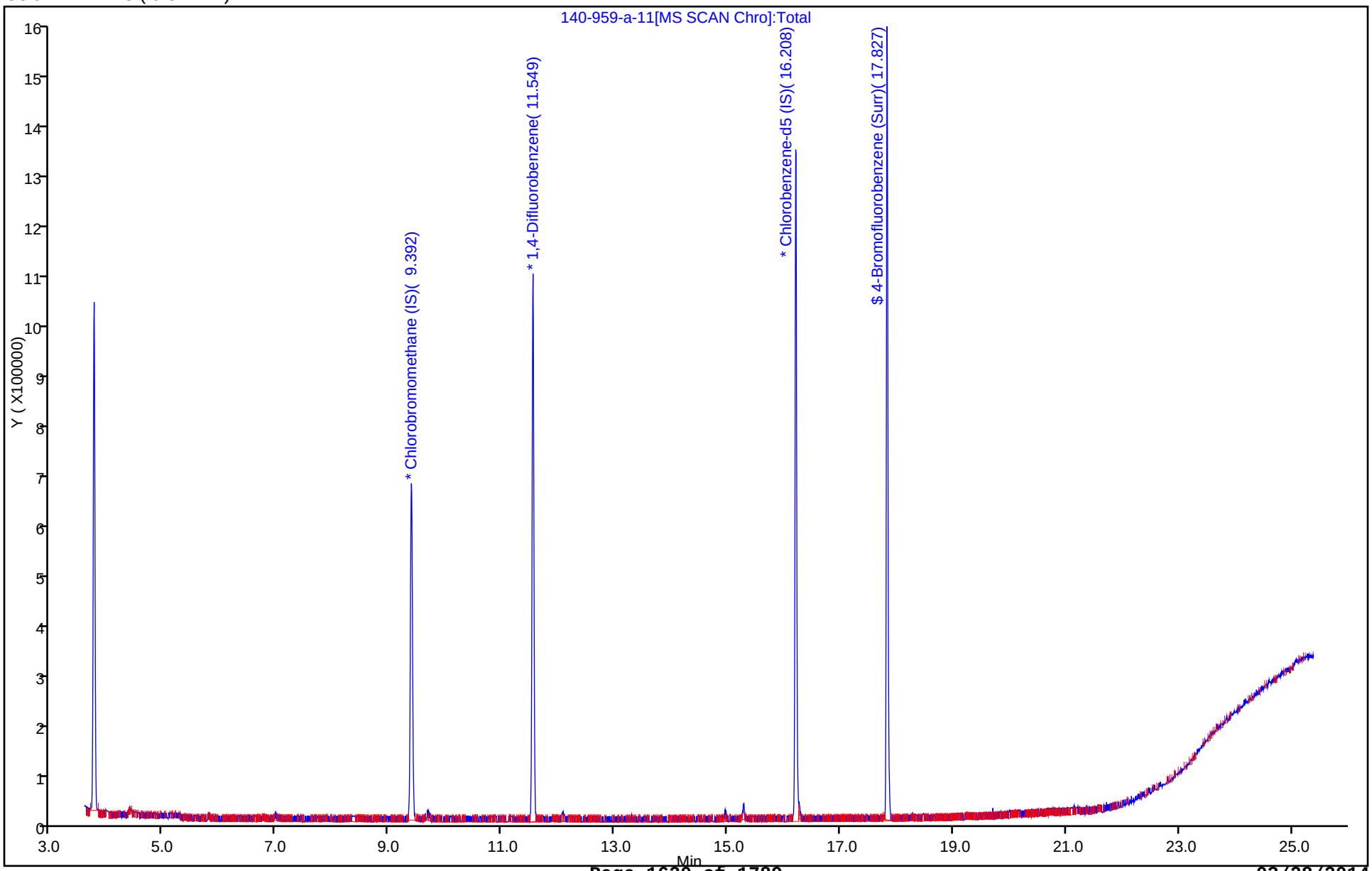
Report Date: 04-Mar-2014 07:32:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D

Injection Date:	03-Mar-2014 18:24:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-11	Lab Sample ID:	140-959-11	Worklist Smp#:	12
Client ID:	09534				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 | Lab Sample ID: 140-959-12

Matrix: Air | Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 | Lab Sample ID: 140-959-12

Matrix: Air | Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 Lab Sample ID: 140-959-12

Matrix: Air Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 Lab Sample ID: 140-959-12

Matrix: Air Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D
Lims ID: 140-959-A-12 Lab Sample ID: 140-959-12
Client ID: 11043
Sample Type: Client
Inject. Date: 03-Mar-2014 19:19:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 11043
Misc. Info.: J030314,TO15,,140-0000490-013
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:33:37 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.402	-0.008	93	187675	4.00	
* 2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	882439	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	745022	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.829	17.831	-0.002	82	571868	3.85	
13 Butane	43	4.525	4.523	0.002	64	3215	0.0301	

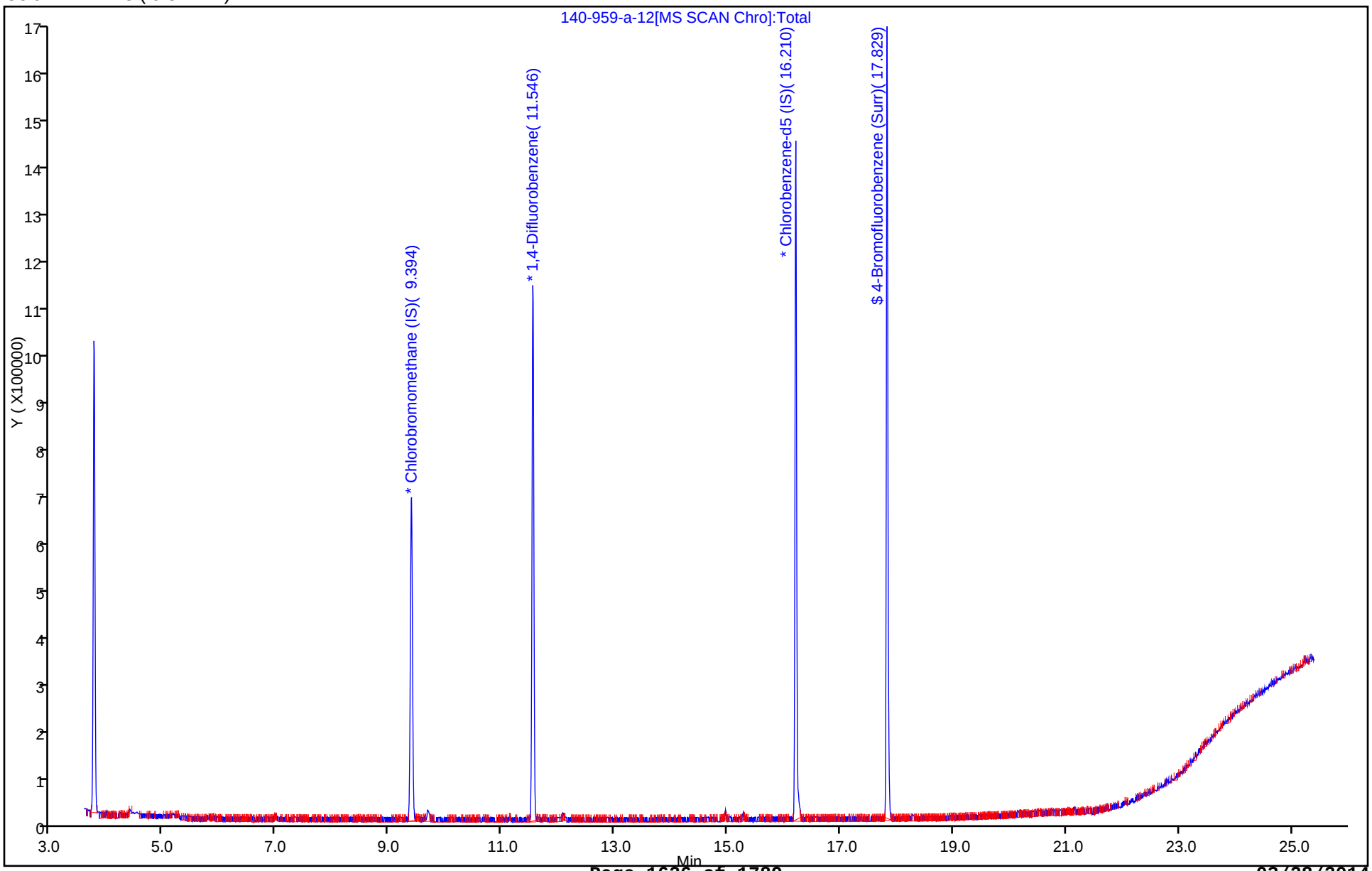
Report Date: 04-Mar-2014 07:33:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D

Injection Date:	03-Mar-2014 19:19:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-12	Lab Sample ID:	140-959-12	Worklist Smp#:	13
Client ID:	11043				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 Lab Sample ID: 140-959-13

Matrix: Air Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D
Lims ID: 140-959-A-13 Lab Sample ID: 140-959-13
Client ID: 10515
Sample Type: Client
Inject. Date: 03-Mar-2014 20:13:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10515
Misc. Info.: J030314,TO15,,140-0000490-014
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:34:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:33:59

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	185379	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	879359	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	742147	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	84	576579	3.89	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	46	4587	0.0307	

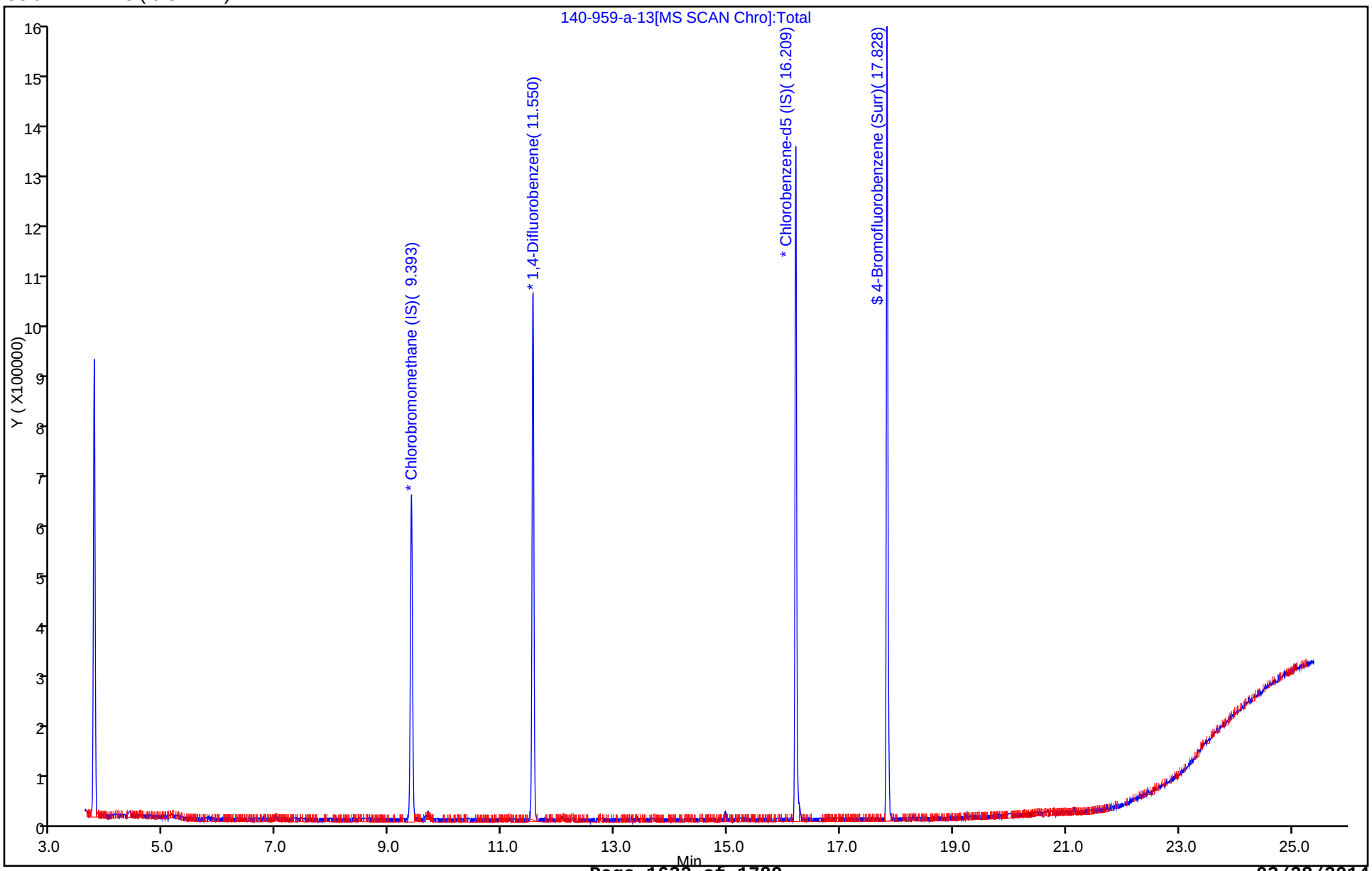
Report Date: 04-Mar-2014 07:34:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D

Injection Date:	03-Mar-2014 20:13:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-13	Lab Sample ID:	140-959-13	Worklist Smp#:	14
Client ID:	10515				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 Lab Sample ID: 140-959-14

Matrix: Air Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D
Lims ID: 140-959-A-14 Lab Sample ID: 140-959-14
Client ID: 09696
Sample Type: Client
Inject. Date: 03-Mar-2014 21:08:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09696
Misc. Info.: J030314,TO15,,140-0000490-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:34:23 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:34:23

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	184985	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	875475	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	724675	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	566372	3.92	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	85	10358	0.0697	

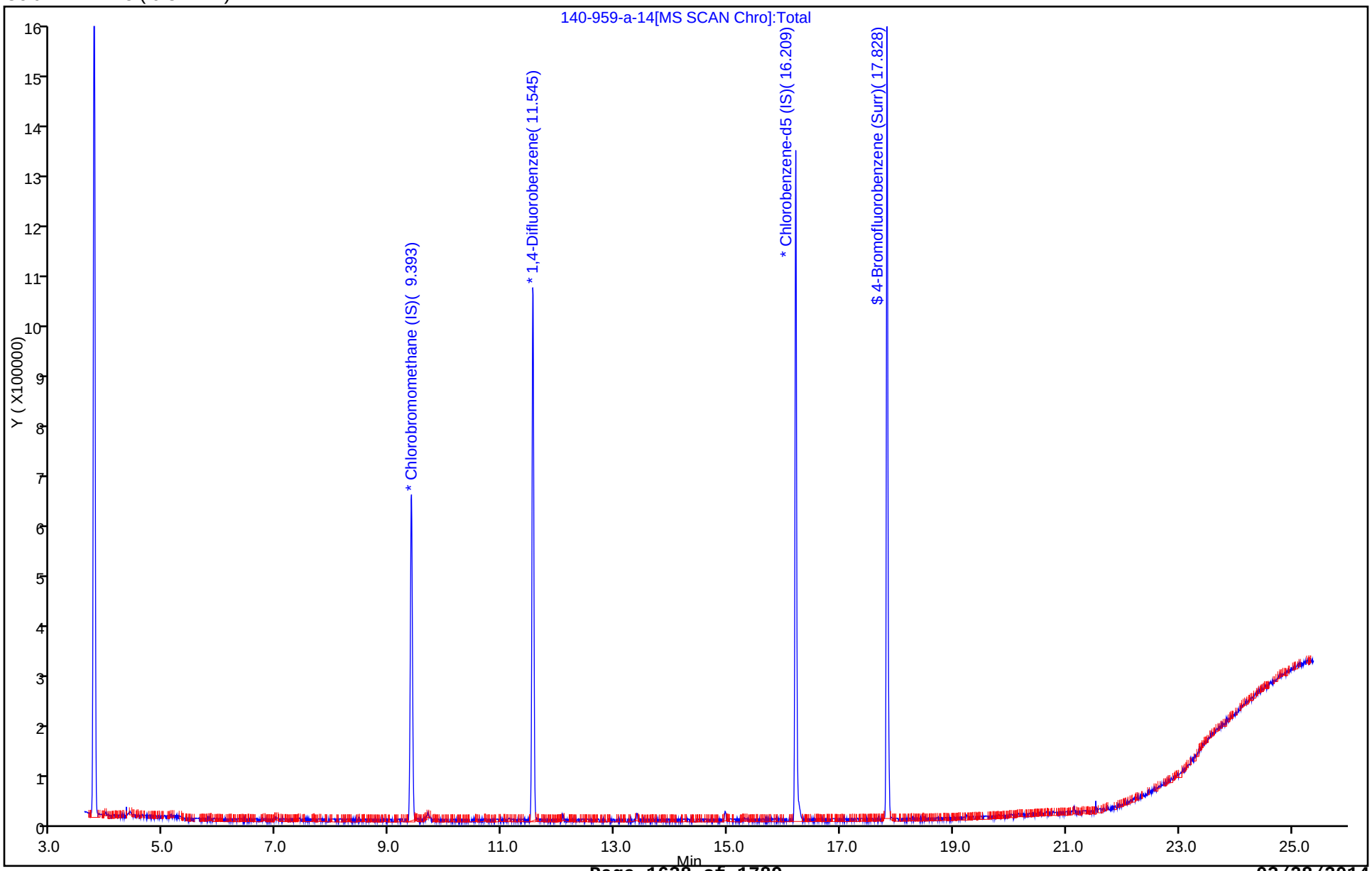
Report Date: 04-Mar-2014 07:34:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D

Injection Date:	03-Mar-2014 21:08:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-14	Lab Sample ID:	140-959-14	Worklist Smp#:	15
Client ID:	09696				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 Lab Sample ID: 140-959-16

Matrix: Air Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D
Lims ID: 140-959-A-16 Lab Sample ID: 140-959-16
Client ID: 09918
Sample Type: Client
Inject. Date: 03-Mar-2014 22:57:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09918
Misc. Info.: J030314,TO15,,140-0000490-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:35:17 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:35:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	183786	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	809290	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	95	652574	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	518506	3.98	
	9 Chloromethane	52	4.234	4.232	0.002	42	2105	0.0888	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	81	16416	0.1195	

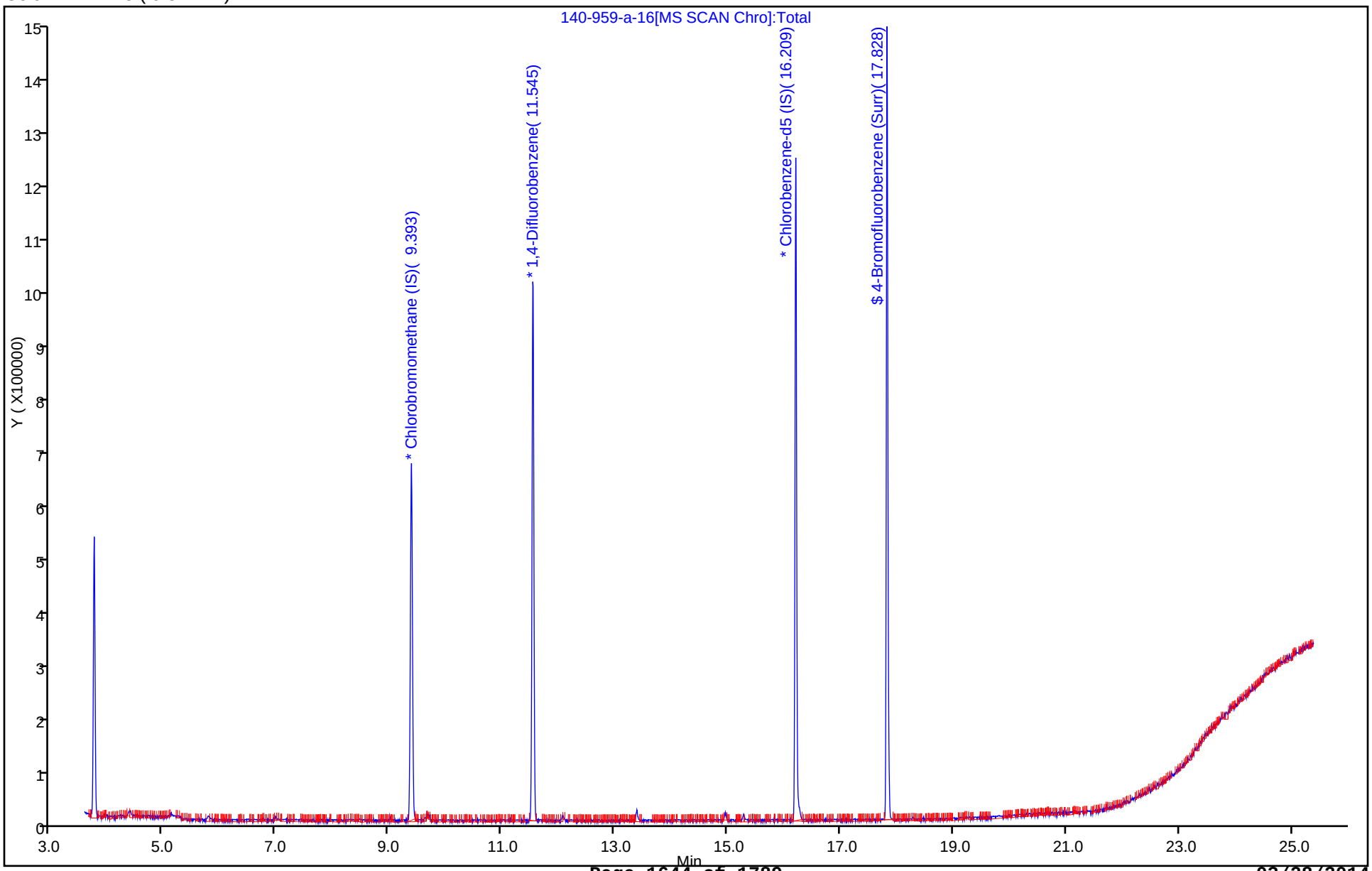
Report Date: 04-Mar-2014 07:35:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D

Injection Date:	03-Mar-2014 22:57:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-16	Lab Sample ID:	140-959-16	Worklist Smp#:	17
Client ID:	09918				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 | Lab Sample ID: 140-967-1

Matrix: Air | Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10386 Lab Sample ID: 140-967-1

Matrix: Air Lab File ID: 140-967-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 04-Mar-2014 11:47:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-1.D				
Lims ID:	140-967-A-1	Lab Sample ID:	140-967-1		
Client ID:	10386				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 14:18:30	ALS Bottle#:	10	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10386				
Misc. Info.:	E030314,TO155,,140-0000488-003				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:19:53	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: barlozhetskayaa		Date:	04-Mar-2014 11:47:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	78	163566	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	832759	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	88	733285	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	90	595067	3.71	
7 Propene	41	3.319	3.314	0.005	89	1602	0.0389	
19 2-Methylbutane	43	4.544	4.544	0.0	31	1154	0.0201	
31 Methylene Chloride	84	5.795	5.795	0.0	60	3405	0.0728	
33 Carbon disulfide	76	5.946	5.946	0.0	87	14599	0.0862	
40 Hexane	56	7.590	7.590	0.0	45	840	0.0193	
47 n-Butanol	31	9.979	9.958	0.021	62	837	0.0539	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	60	2530	0.0256	
73 Tetrachloroethene	129	14.552	14.557	-0.005	68	2195	0.0262	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	56	4154	0.0289	
112 Naphthalene	128	20.796	20.796	0.0	85	5963	0.0366	

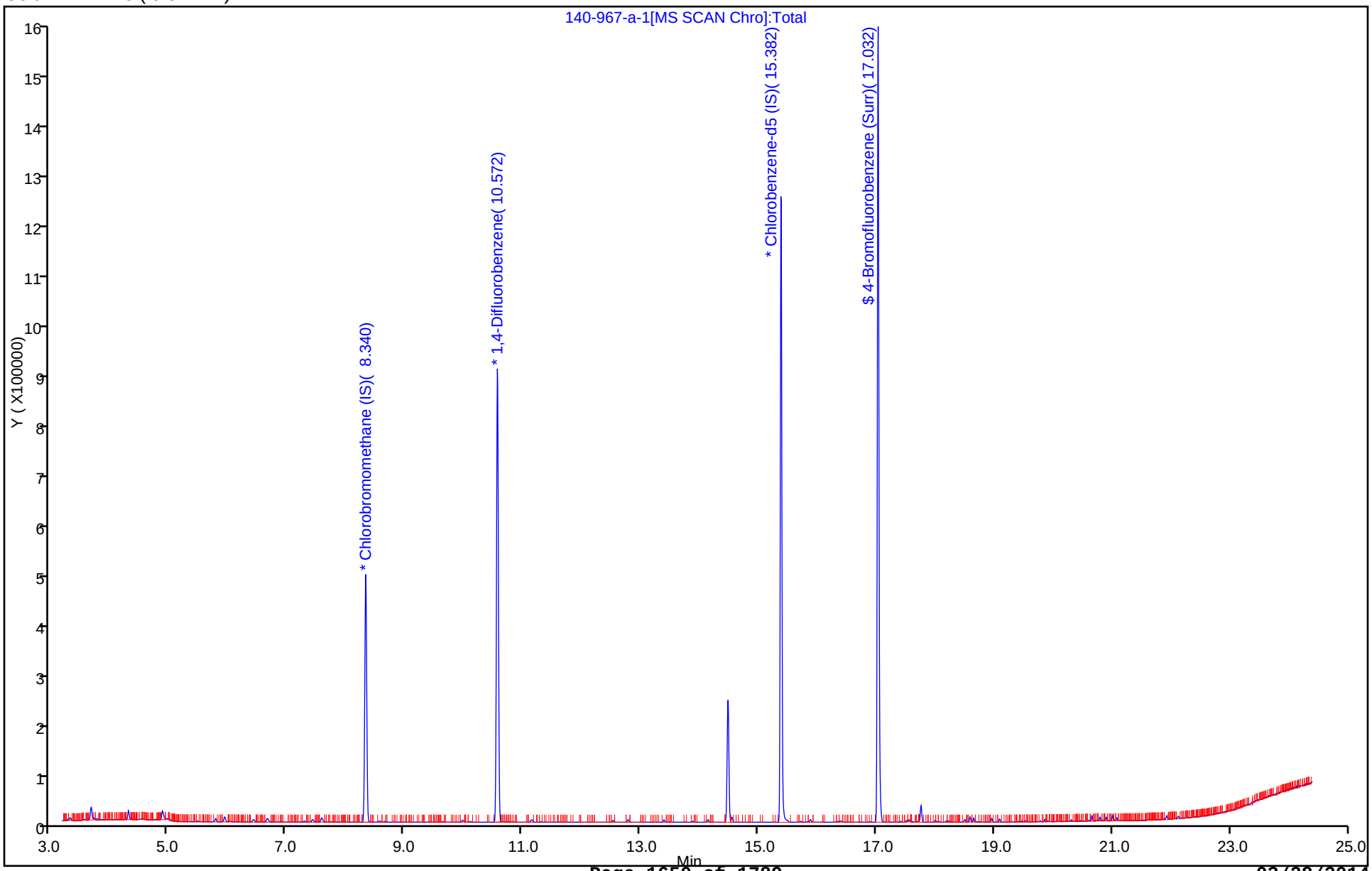
Report Date: 04-Mar-2014 11:47:59 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-1.D

Injection Date:	03-Mar-2014 14:18:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-967-A-1	Lab Sample ID:	140-967-1	Worklist Smp#:	3
Client ID:	10386				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 | Lab Sample ID: 140-967-2

Matrix: Air | Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 | Lab Sample ID: 140-967-2

Matrix: Air | Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 | Lab Sample ID: 140-967-2

Matrix: Air | Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10690 Lab Sample ID: 140-967-2

Matrix: Air Lab File ID: 140-967-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-2.D				
Lims ID:	140-967-A-2	Lab Sample ID:	140-967-2		
Client ID:	10690				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 15:03:30	ALS Bottle#:	11	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10690				
Misc. Info.:	E030314,TO155,,140-0000488-004				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 09:02:57	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: barlozhetskayaa		Date:	03-Mar-2014 16:05:12		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	155933	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	755622	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	88	663295	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	90	534234	3.68	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	81	8301	0.0927	

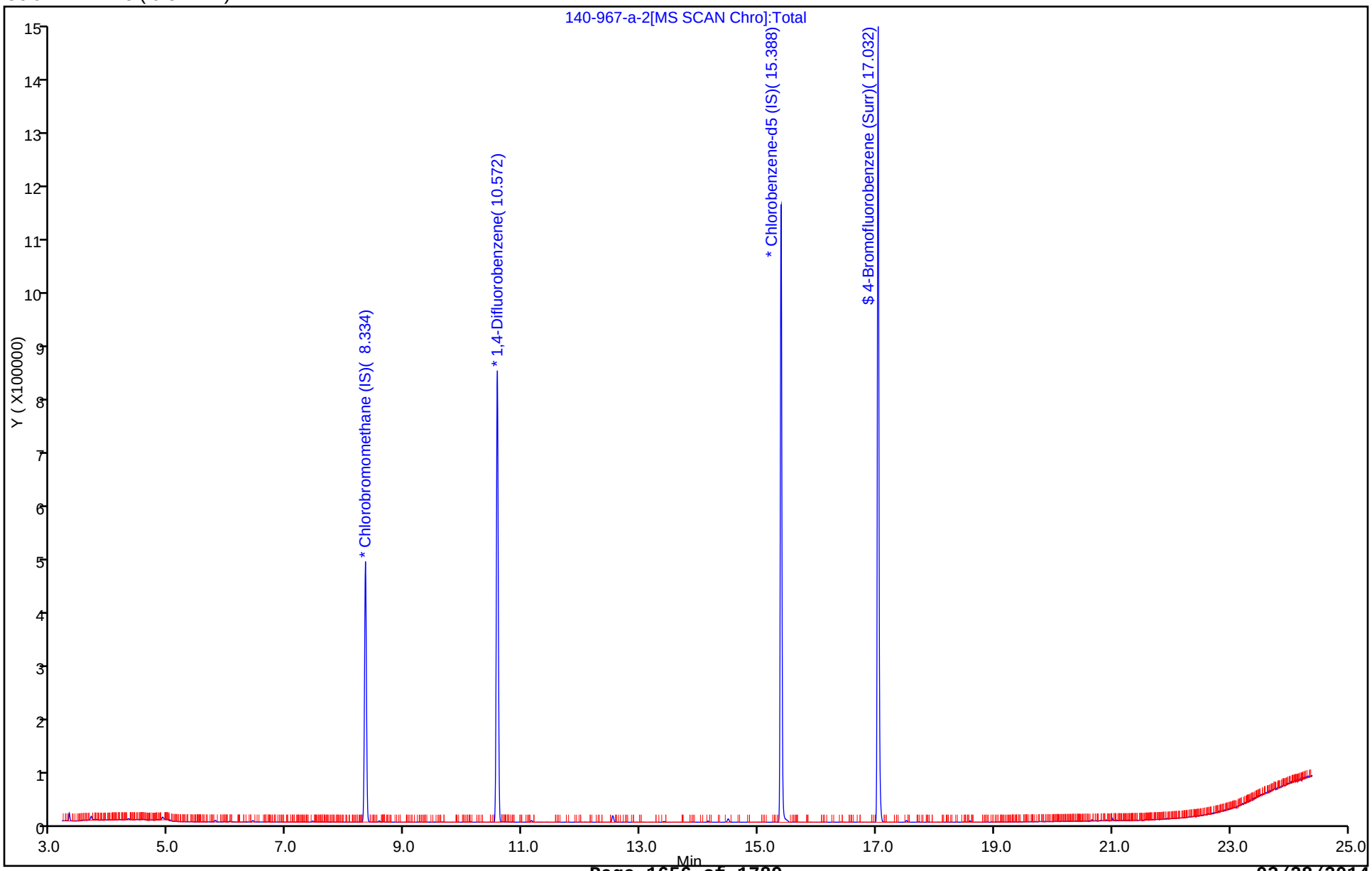
Report Date: 04-Mar-2014 09:06:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-2.D

Injection Date:	03-Mar-2014 15:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-967-A-2	Lab Sample ID:	140-967-2	Worklist Smp#:	4
Client ID:	10690				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 | Lab Sample ID: 140-967-5

Matrix: Air | Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 | Lab Sample ID: 140-967-5

Matrix: Air | Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 Lab Sample ID: 140-967-5

Matrix: Air Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 09605 Lab Sample ID: 140-967-5

Matrix: Air Lab File ID: 140-967-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-5.D				
Lims ID:	140-967-A-5	Lab Sample ID:	140-967-5		
Client ID:	09605				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 00:47:30	ALS Bottle#:	8	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09605				
Misc. Info.:	E030314,TO155,,140-0000488-016				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:08:57	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:08:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	141938	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	694911	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	605164	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	89	498040	3.76	

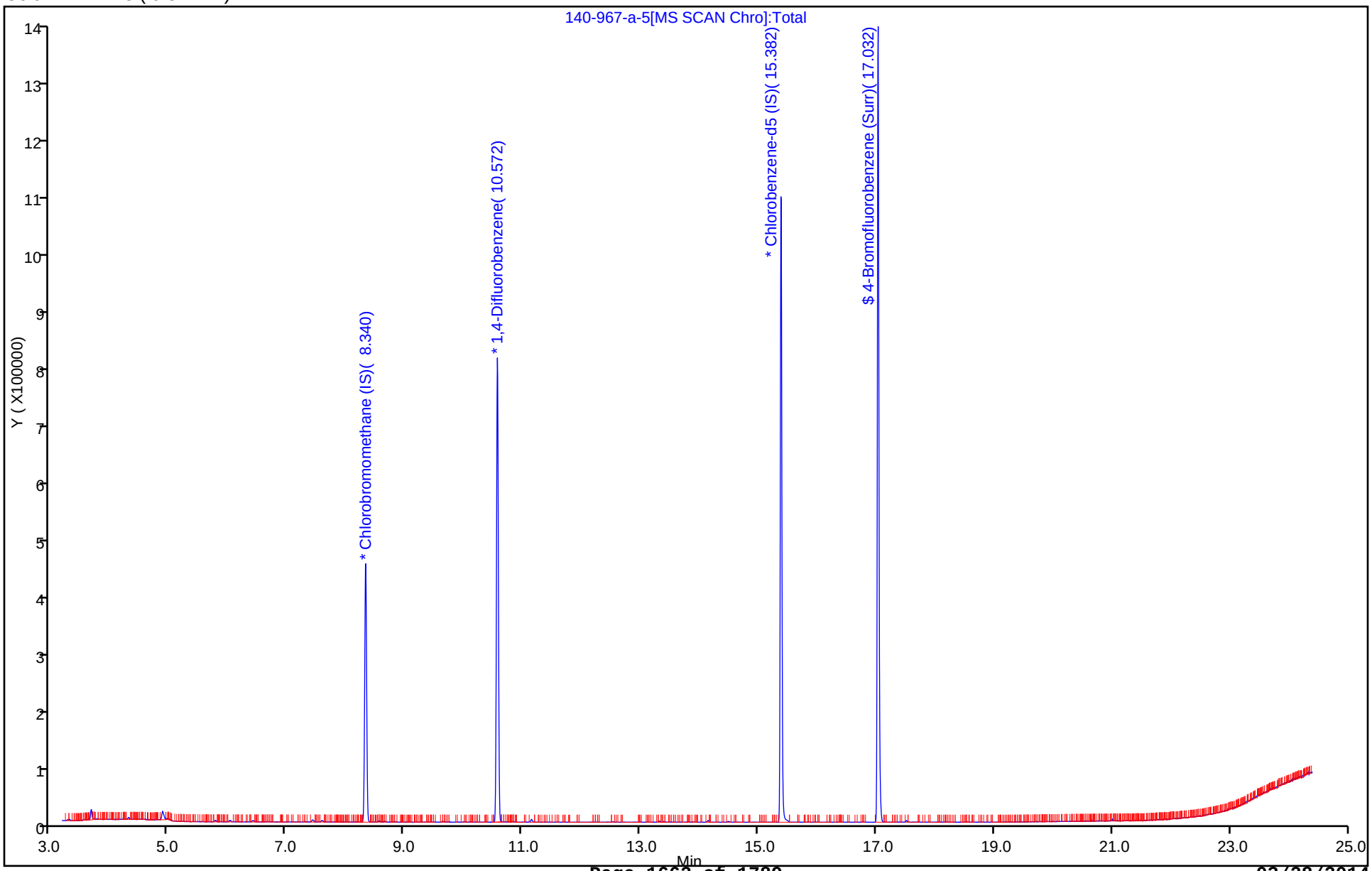
Report Date: 04-Mar-2014 10:08:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-5.D

Injection Date:	04-Mar-2014 00:47:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-5	Lab Sample ID:	140-967-5	Worklist Smp#:	16
Client ID:	09605				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 | Lab Sample ID: 140-967-6

Matrix: Air | Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 09977 Lab Sample ID: 140-967-6

Matrix: Air Lab File ID: 140-967-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-6.D
Lims ID: 140-967-A-6 Lab Sample ID: 140-967-6
Client ID: 09977
Sample Type: Client
Inject. Date: 04-Mar-2014 01:31:30 ALS Bottle#: 9 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09977
Misc. Info.: E030314,TO155,,140-0000488-017
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:09:16 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:09:15

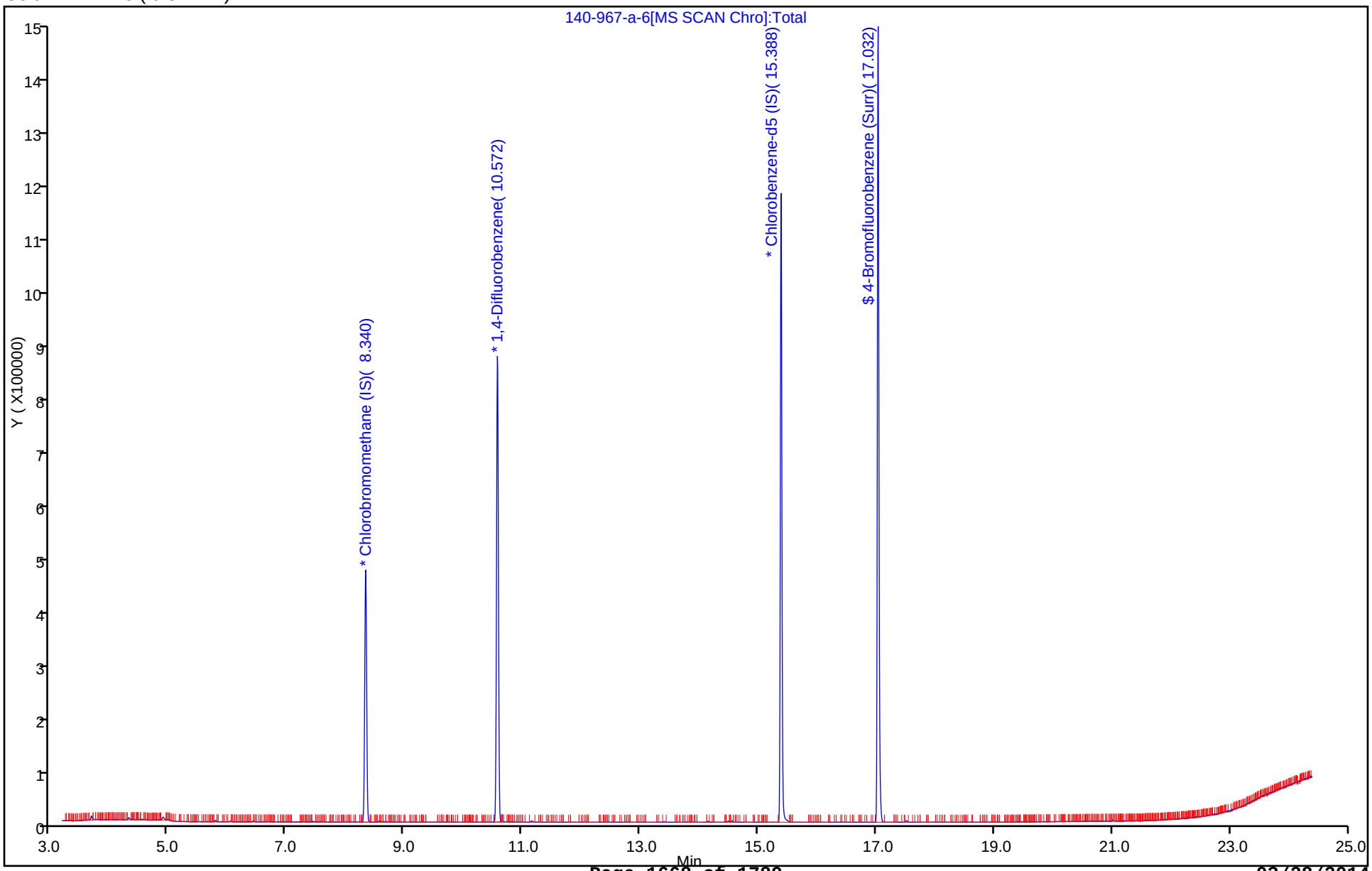
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	145093	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	741807	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	641625	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	527945	3.76	

Report Date: 04-Mar-2014 10:09:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-6.D				
Injection Date:	04-Mar-2014 01:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-6	Lab Sample ID:	140-967-6	Worklist Smp#:	17
Client ID:	09977				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 | Lab Sample ID: 140-967-8

Matrix: Air | Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 | Lab Sample ID: 140-967-8

Matrix: Air | Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 Lab Sample ID: 140-967-8

Matrix: Air Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10849 Lab Sample ID: 140-967-8

Matrix: Air Lab File ID: 140-967-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-8.D				
Lims ID:	140-967-A-8	Lab Sample ID:	140-967-8		
Client ID:	10849				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 03:01:30	ALS Bottle#:	11	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10849				
Misc. Info.:	E030314,TO155,,140-0000488-019				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:10:25	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:10:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	156144	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	783307	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	692874	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	576531	3.80	

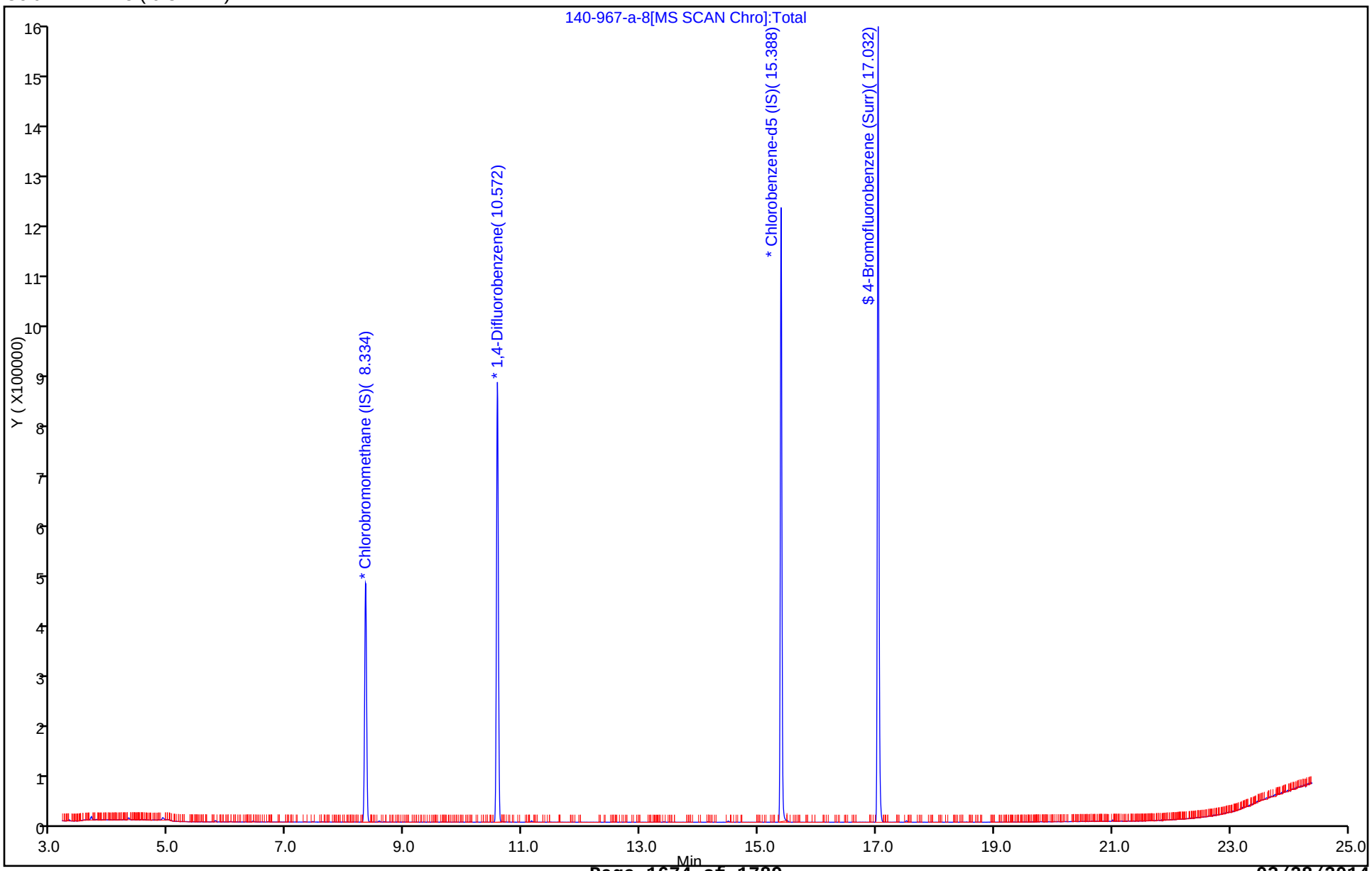
Report Date: 04-Mar-2014 10:10:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-8.D

Injection Date:	04-Mar-2014 03:01:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-8	Lab Sample ID:	140-967-8	Worklist Smp#:	19
Client ID:	10849				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-967-9

Matrix: Air Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-967-9

Matrix: Air | Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-967-9

Matrix: Air Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-967-9

Matrix: Air Lab File ID: 140-967-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 03:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-9.D				
Lims ID:	140-967-A-9	Lab Sample ID:	140-967-9		
Client ID:	10206				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 03:45:30	ALS Bottle#:	12	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10206				
Misc. Info.:	E030314,TO155,,140-0000488-020				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:10:48	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:10:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	128936	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	612243	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	532580	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	448184	3.84	

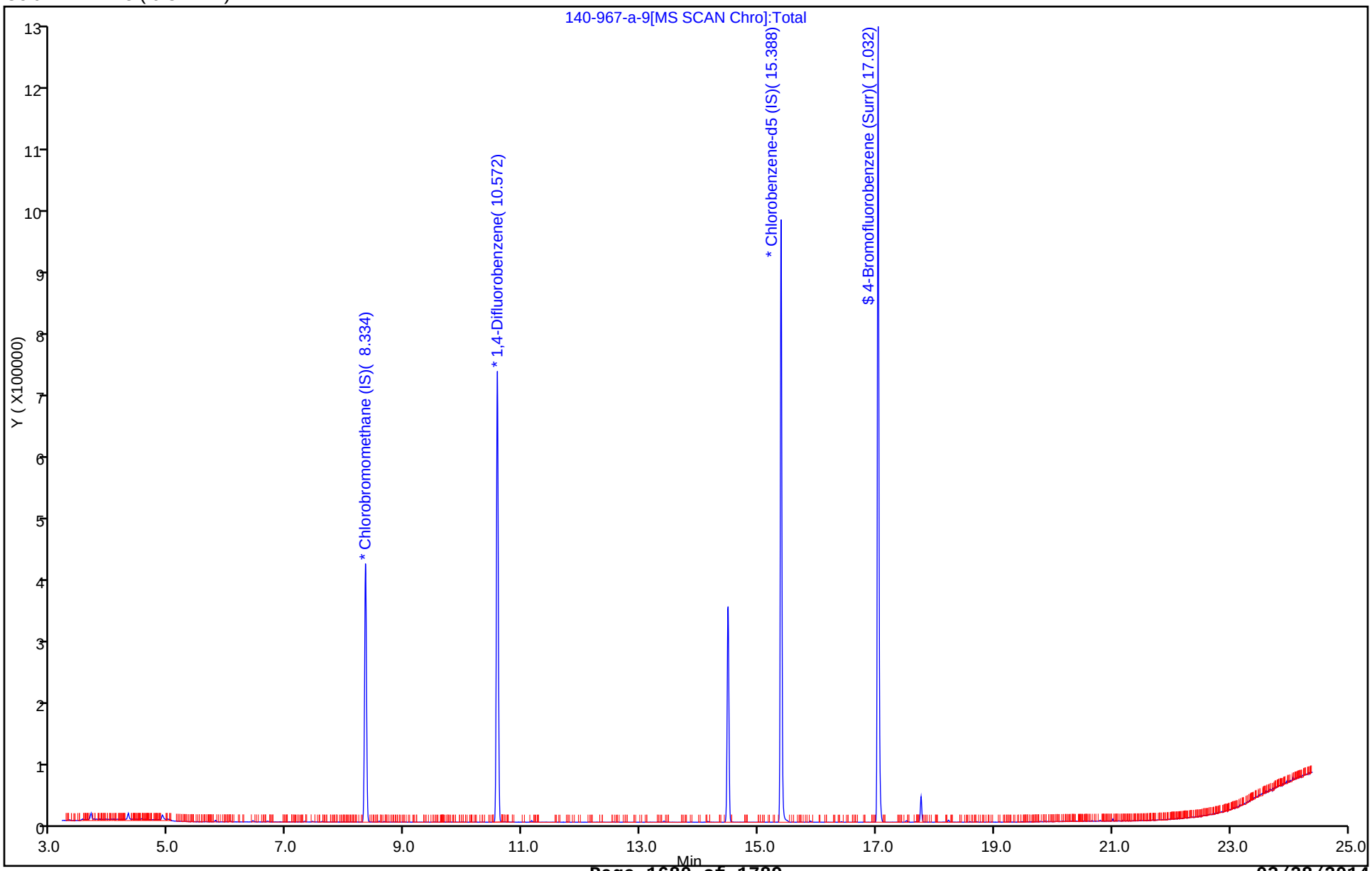
Report Date: 04-Mar-2014 10:10:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-9.D

Injection Date:	04-Mar-2014 03:45:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-9	Lab Sample ID:	140-967-9	Worklist Smp#:	20
Client ID:	10206				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 | Lab Sample ID: 140-967-11

Matrix: Air | Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 | Lab Sample ID: 140-967-11

Matrix: Air | Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 | Lab Sample ID: 140-967-11

Matrix: Air | Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10733 Lab Sample ID: 140-967-11

Matrix: Air Lab File ID: 140-967-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-11.D				
Lims ID:	140-967-A-11	Lab Sample ID:	140-967-11		
Client ID:	10733				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 05:14:30	ALS Bottle#:	14	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10733				
Misc. Info.:	E030314,TO155,,140-0000488-022				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 10:18:35	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 10:18:35		

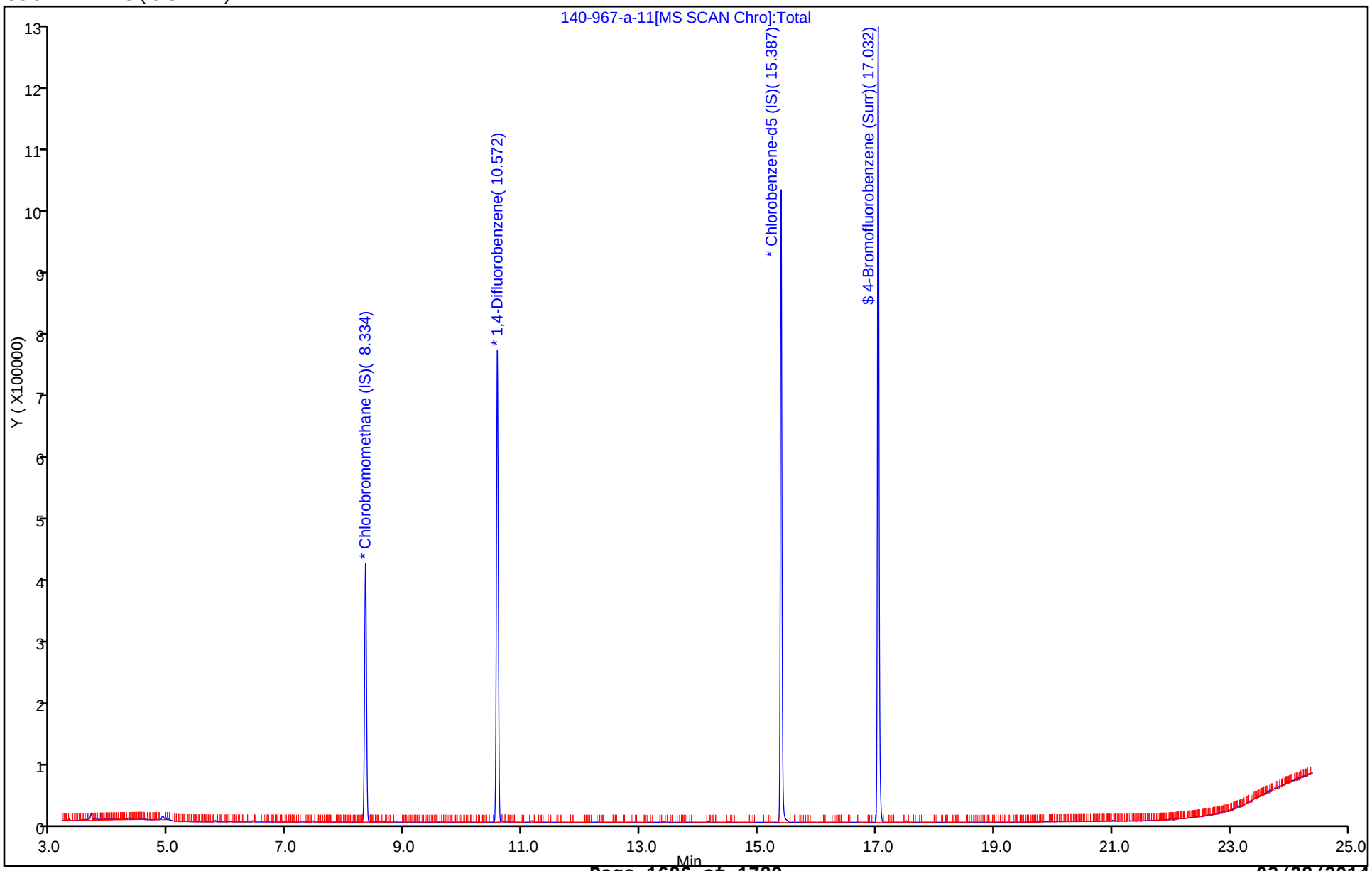
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.351	-0.017	79	128551	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	640157	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	89	557038	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	458824	3.76	

Report Date: 04-Mar-2014 10:18:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-11.D				
Injection Date:	04-Mar-2014 05:14:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-11	Lab Sample ID:	140-967-11	Worklist Smp#:	22
Client ID:	10733				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 | Lab Sample ID: 140-967-12

Matrix: Air | Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10708 Lab Sample ID: 140-967-12

Matrix: Air Lab File ID: 140-967-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-12.D
Lims ID: 140-967-A-12 Lab Sample ID: 140-967-12
Client ID: 10708
Sample Type: Client
Inject. Date: 04-Mar-2014 06:00:30 ALS Bottle#: 15 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10708
Misc. Info.: E030314,TO155,,140-0000488-023
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:18:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:18:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	79	134120	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	682612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	89	596163	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	88	508398	3.89	

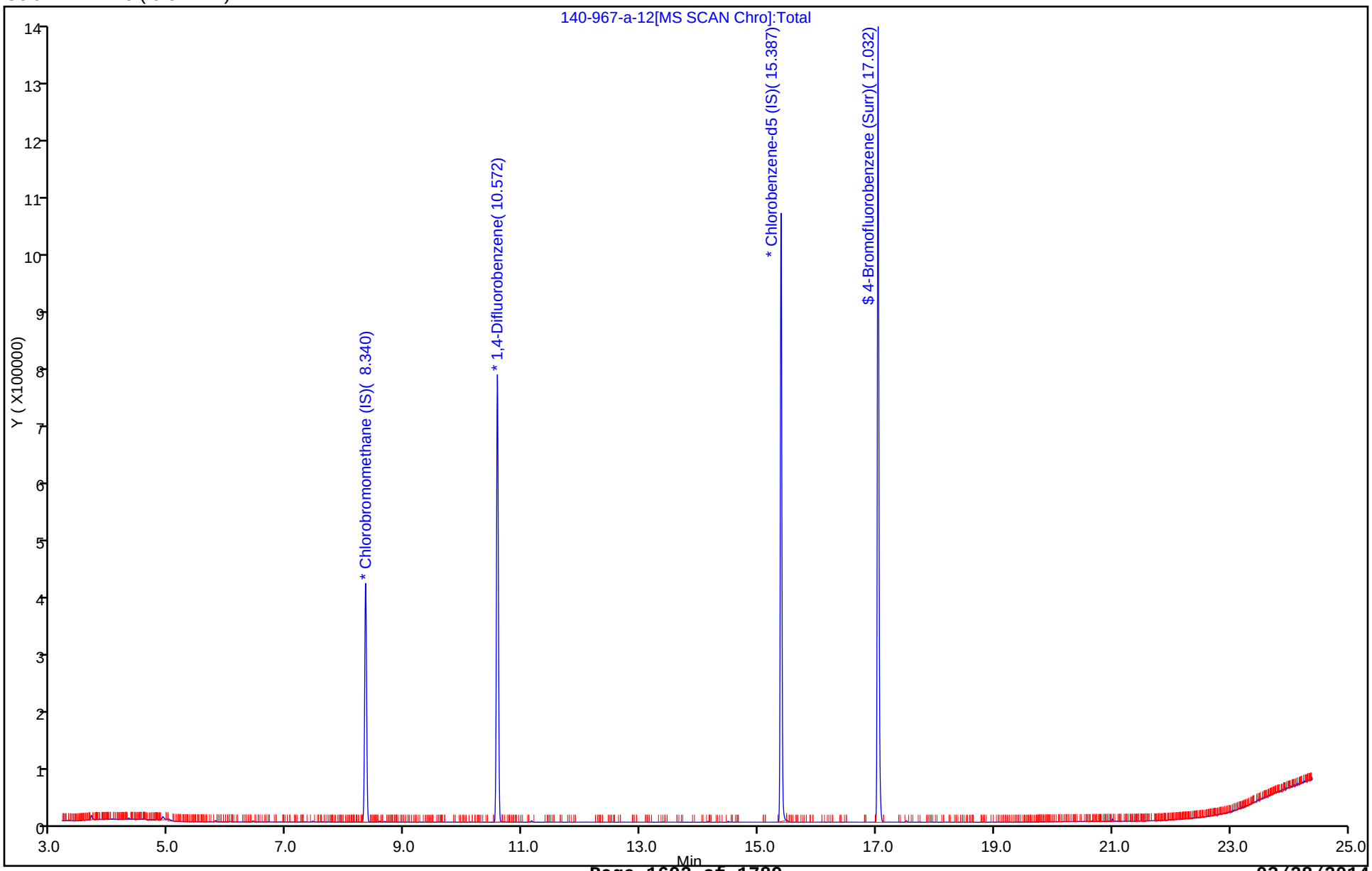
Report Date: 04-Mar-2014 10:18:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-967-a-12.D

Injection Date:	04-Mar-2014 06:00:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-967-A-12	Lab Sample ID:	140-967-12	Worklist Smp#:	23
Client ID:	10708				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 | Lab Sample ID: 140-967-13

Matrix: Air | Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 | Lab Sample ID: 140-967-13

Matrix: Air | Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 | Lab Sample ID: 140-967-13

Matrix: Air | Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10212 Lab Sample ID: 140-967-13

Matrix: Air Lab File ID: 140-967-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-13.D
Lims ID: 140-967-A-13 Lab Sample ID: 140-967-13
Client ID: 10212
Sample Type: Client
Inject. Date: 04-Mar-2014 08:02:30 ALS Bottle#: 1 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10212
Misc. Info.: G030314,TO15,140-0000487-020
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:47:57 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:47:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	945998	4.00	
*	2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4212412	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2487645	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	96	1087305	3.30	

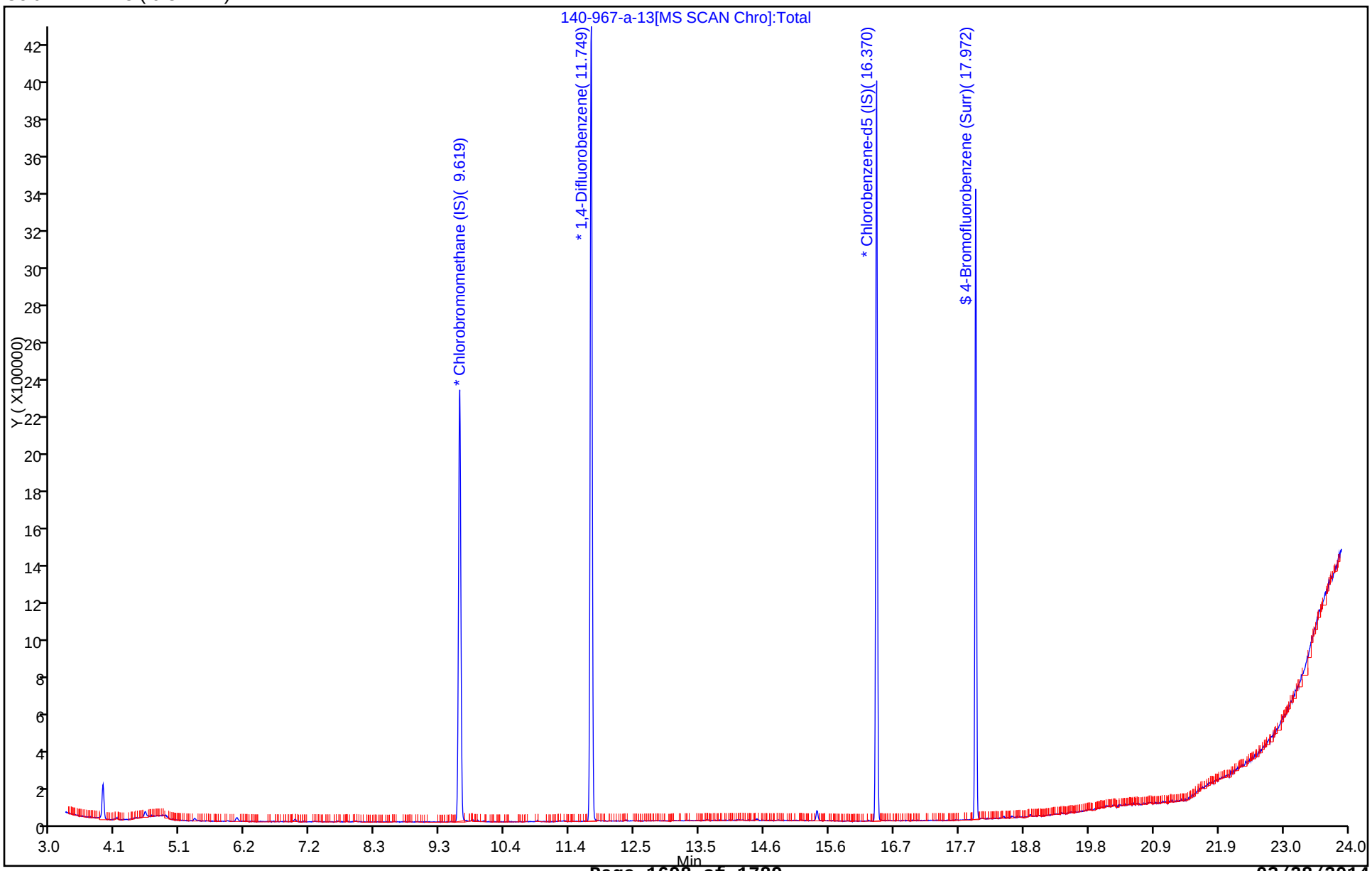
Report Date: 04-Mar-2014 08:47:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-13.D

Injection Date:	04-Mar-2014 08:02:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-967-A-13	Lab Sample ID:	140-967-13	Worklist Smp#:	20
Client ID:	10212				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 | Lab Sample ID: 140-967-14

Matrix: Air | Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 | Lab Sample ID: 140-967-14

Matrix: Air | Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 Lab Sample ID: 140-967-14

Matrix: Air Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-967-1

SDG No.:

Client Sample ID: 10238 Lab Sample ID: 140-967-14

Matrix: Air Lab File ID: 140-967-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-14.D
Lims ID: 140-967-A-14 Lab Sample ID: 140-967-14
Client ID: 10238
Sample Type: Client
Inject. Date: 04-Mar-2014 08:52:30 ALS Bottle#: 2 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10238
Misc. Info.: G030314,TO15,140-0000487-021
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:11:49 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:11:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.635	9.641	-0.006	75	936866	4.00	
*	2 1,4-Difluorobenzene	114	11.755	11.760	-0.005	94	4095402	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2370131	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1049206	3.34	

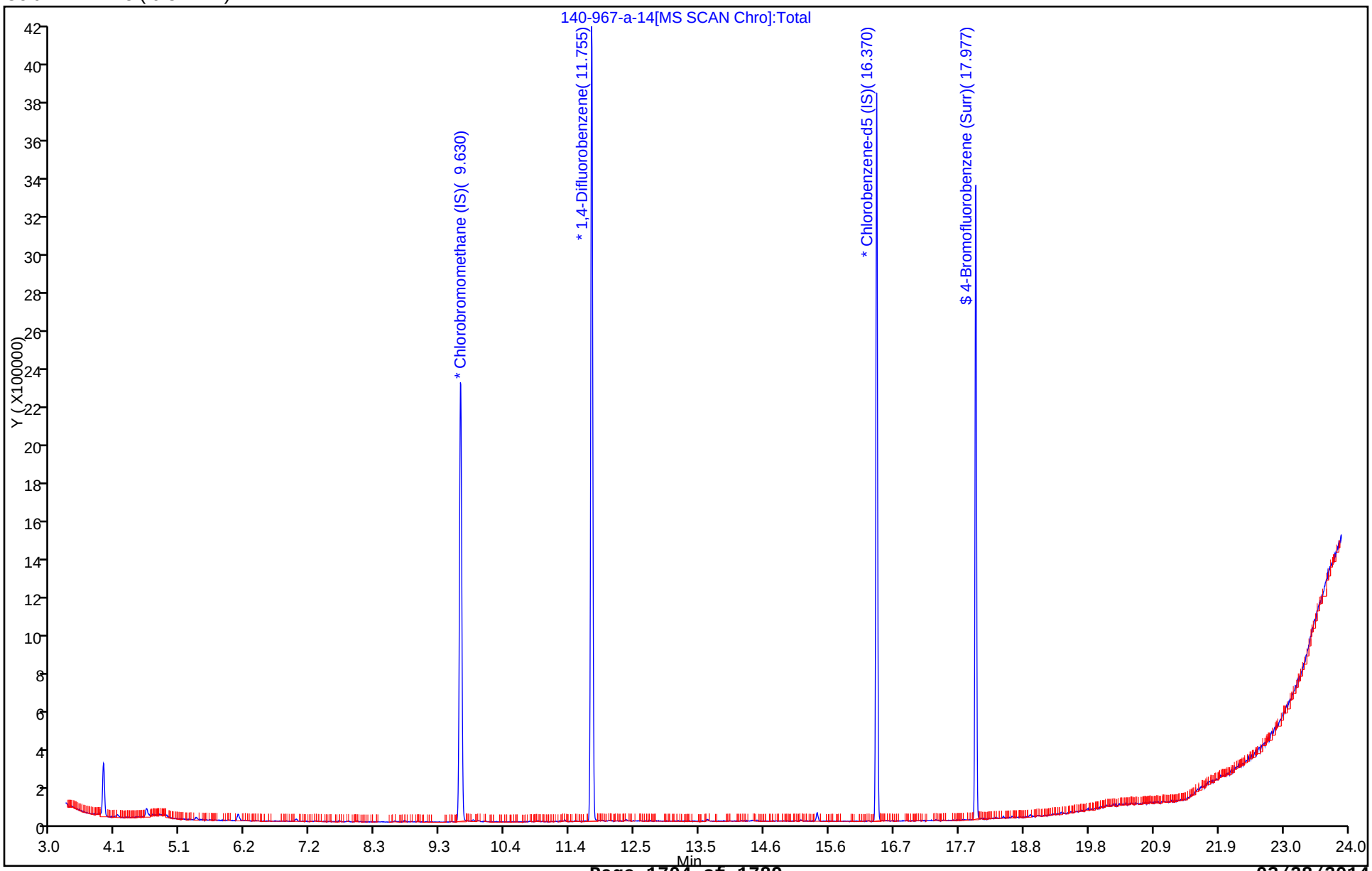
Report Date: 04-Mar-2014 10:11:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-967-a-14.D

Injection Date:	04-Mar-2014 08:52:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-967-A-14	Lab Sample ID:	140-967-14	Worklist Smp#:	21
Client ID:	10238				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 | Lab Sample ID: 140-972-1

Matrix: Air | Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 | Lab Sample ID: 140-972-1

Matrix: Air | Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 Lab Sample ID: 140-972-1

Matrix: Air Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10389 Lab Sample ID: 140-972-1

Matrix: Air Lab File ID: 140-972-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-1.D				
Lims ID:	140-972-A-1	Lab Sample ID:	140-972-1		
Client ID:	10389				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 12:49:30	ALS Bottle#:	1	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10389				
Misc. Info.:	G030314,TO15,140-0000487-004				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Mar-2014 13:38:41	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: tajh		Date:	03-Mar-2014 13:38:41		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	967380	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4364861	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2668760	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1235472	3.49	

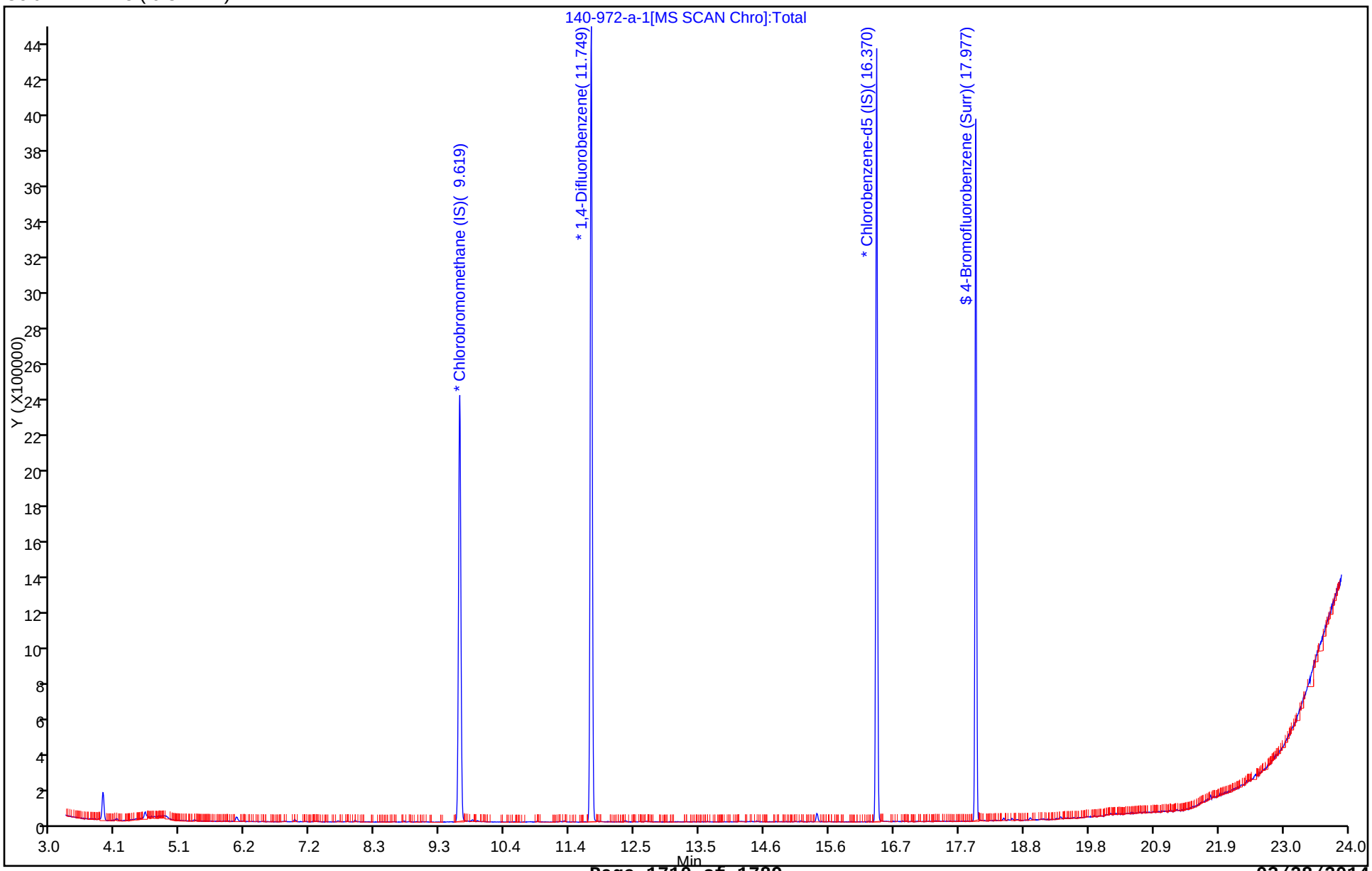
Report Date: 03-Mar-2014 13:38:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-1.D

Injection Date:	03-Mar-2014 12:49:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-1	Lab Sample ID:	140-972-1	Worklist Smp#:	4
Client ID:	10389				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 | Lab Sample ID: 140-972-2

Matrix: Air | Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09601 Lab Sample ID: 140-972-2

Matrix: Air Lab File ID: 140-972-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-2.D				
Lims ID:	140-972-A-2	Lab Sample ID:	140-972-2		
Client ID:	09601				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 13:44:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09601				
Misc. Info.:	G030314,TO15,140-0000487-005				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Mar-2014 14:29:42	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: tajh		Date:	03-Mar-2014 14:29:41		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	76	889589	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3723079	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2264968	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1046311	3.48	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	85	12279	0.0333	

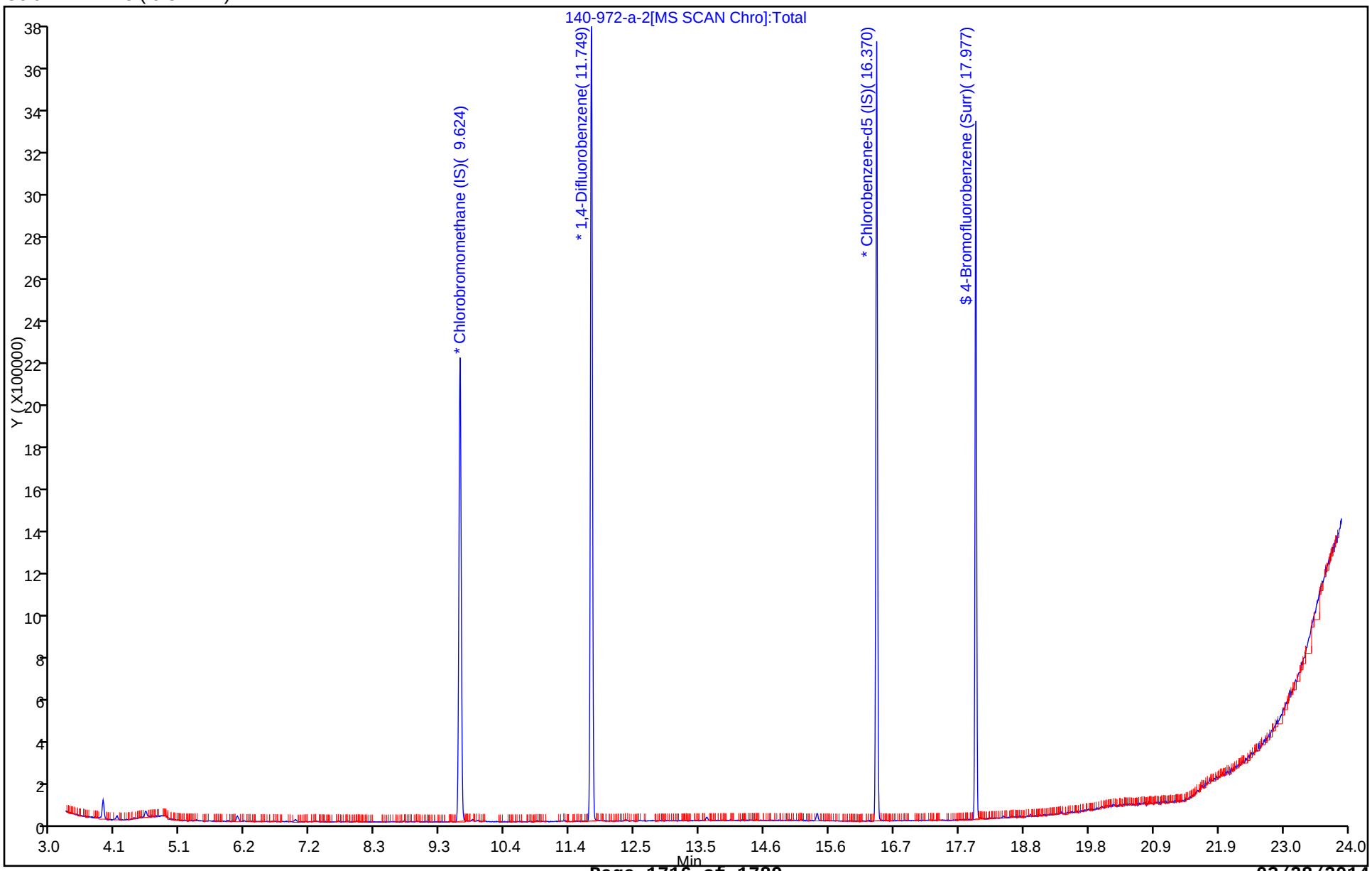
Report Date: 03-Mar-2014 14:29:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-2.D

Injection Date:	03-Mar-2014 13:44:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-2	Lab Sample ID:	140-972-2	Worklist Smp#:	5
Client ID:	09601				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 Lab Sample ID: 140-972-3

Matrix: Air Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 | Lab Sample ID: 140-972-3

Matrix: Air | Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 | Lab Sample ID: 140-972-3

Matrix: Air | Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11042 Lab Sample ID: 140-972-3

Matrix: Air Lab File ID: 140-972-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-3.D				
Lims ID:	140-972-A-3	Lab Sample ID:	140-972-3		
Client ID:	11042				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 14:38:30	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11042				
Misc. Info.:	G030314,TO15,140-0000487-006				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 05:48:30	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:22:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	76	923390	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3936684	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2363374	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1078048	3.44	

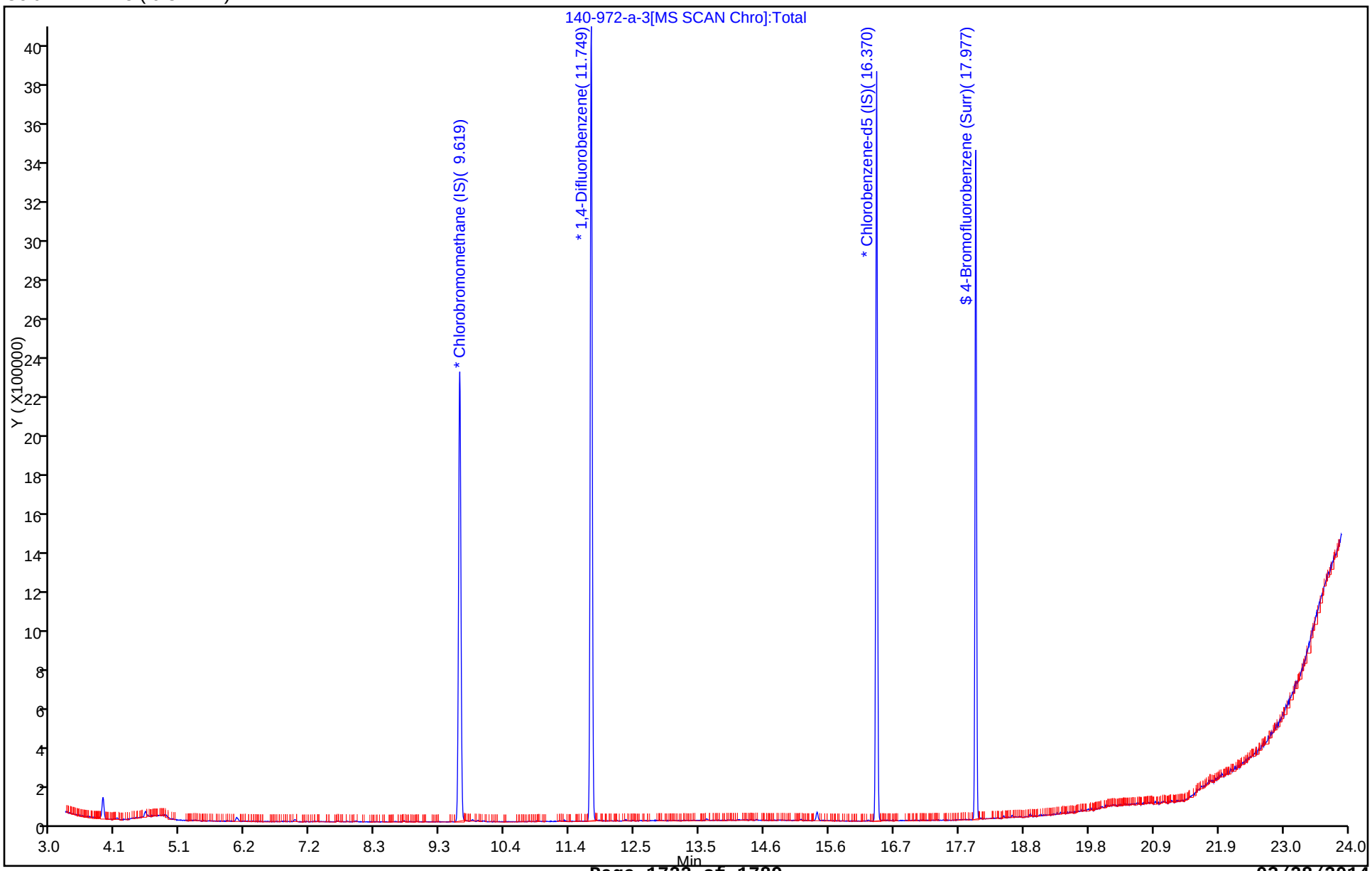
Report Date: 04-Mar-2014 08:22:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-3.D

Injection Date:	03-Mar-2014 14:38:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-3	Lab Sample ID:	140-972-3	Worklist Smp#:	6
Client ID:	11042				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 | Lab Sample ID: 140-972-4

Matrix: Air | Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 | Lab Sample ID: 140-972-4

Matrix: Air | Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 | Lab Sample ID: 140-972-4

Matrix: Air | Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09786 Lab Sample ID: 140-972-4

Matrix: Air Lab File ID: 140-972-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-4.D				
Lims ID:	140-972-A-4	Lab Sample ID:	140-972-4		
Client ID:	09786				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 15:32:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09786				
Misc. Info.:	G030314,TO15,140-0000487-007				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 05:48:30	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:22:58		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	76	880037	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3600672	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2202888	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1005021	3.44	

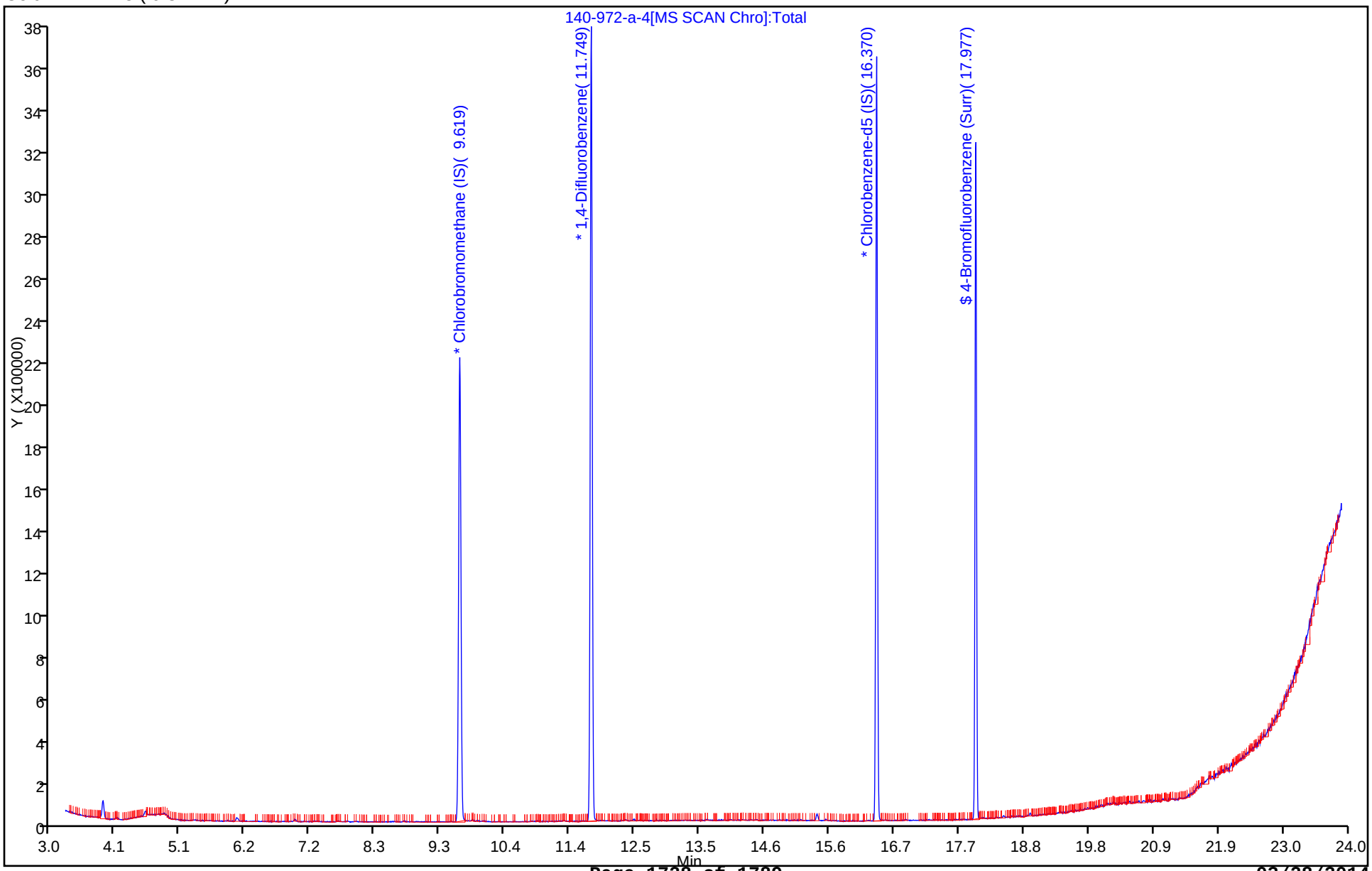
Report Date: 04-Mar-2014 08:22:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-4.D

Injection Date:	03-Mar-2014 15:32:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-4	Lab Sample ID:	140-972-4	Worklist Smp#:	7
Client ID:	09786				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 | Lab Sample ID: 140-972-5

Matrix: Air | Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 | Lab Sample ID: 140-972-5

Matrix: Air | Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 | Lab Sample ID: 140-972-5

Matrix: Air | Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10385 Lab Sample ID: 140-972-5

Matrix: Air Lab File ID: 140-972-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-5.D				
Lims ID:	140-972-A-5	Lab Sample ID:	140-972-5		
Client ID:	10385				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 16:27:30	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10385				
Misc. Info.:	G030314,TO15,140-0000487-008				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 05:48:30	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:23:02		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.625	9.641	-0.017	75	877059	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3608675	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2160845	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	969074	3.38	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	85	8449	0.0237	

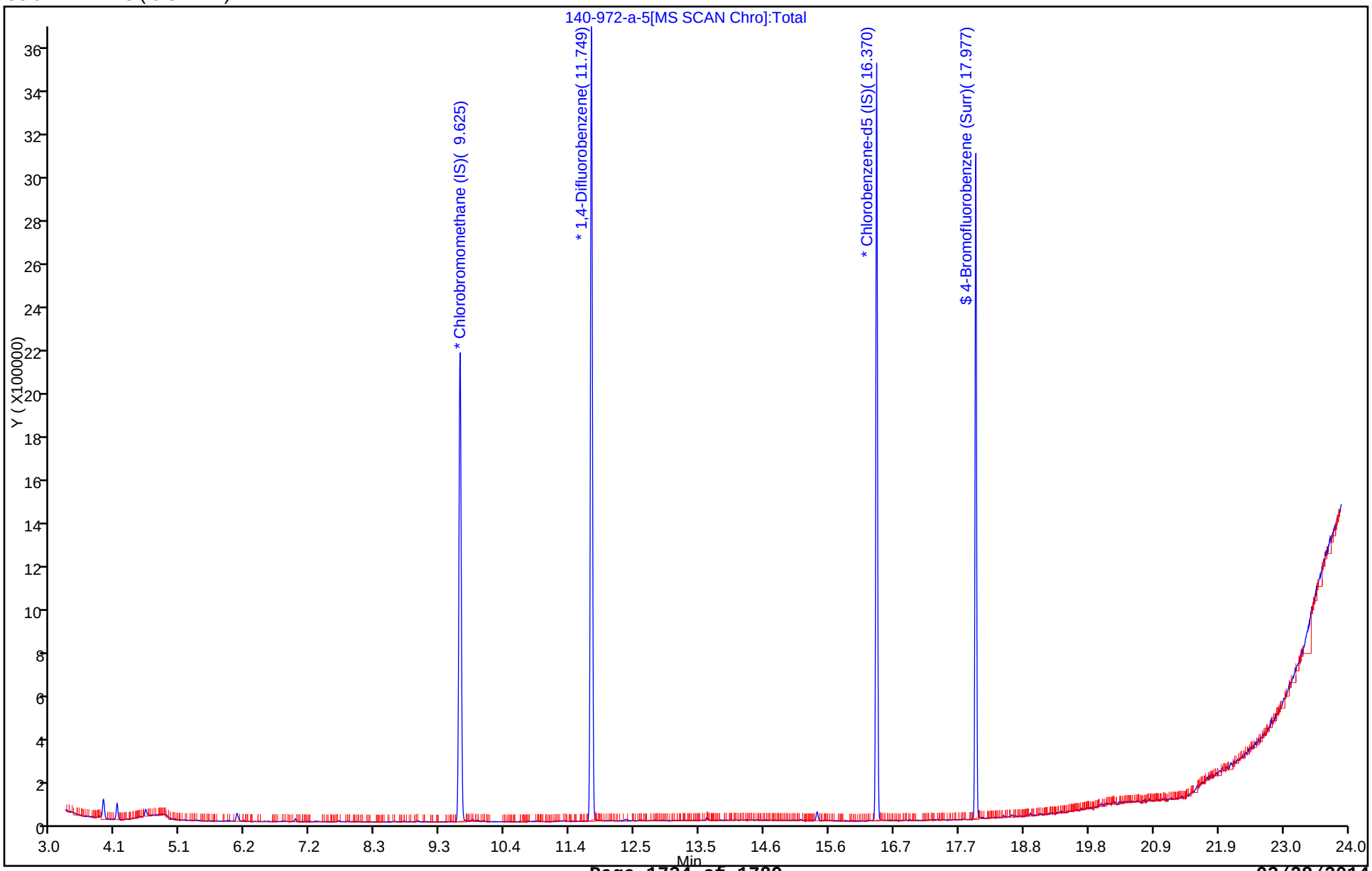
Report Date: 04-Mar-2014 08:23:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-5.D

Injection Date:	03-Mar-2014 16:27:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-5	Lab Sample ID:	140-972-5	Worklist Smp#:	8
Client ID:	10385				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 | Lab Sample ID: 140-972-6

Matrix: Air | Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10090 Lab Sample ID: 140-972-6

Matrix: Air Lab File ID: 140-972-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-6.D
Lims ID: 140-972-A-6 Lab Sample ID: 140-972-6
Client ID: 10090
Sample Type: Client
Inject. Date: 03-Mar-2014 17:21:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10090
Misc. Info.: G030314,TO15,140-0000487-009
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:23:37 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:23:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	932087	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4057043	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2412379	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1065957	3.33	
6 Chlorodifluoromethane	67	4.054	4.054	0.0	65	2295	0.0238	
20 Trichlorofluoromethane	101	5.790	5.807	-0.017	85	10752	0.0103	
31 Methylene Chloride	84	6.955	6.966	-0.011	89	35564	0.1544	
39 Hexane	56	8.810	8.826	-0.016	86	12730	0.0622	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	89	10953	0.0273	

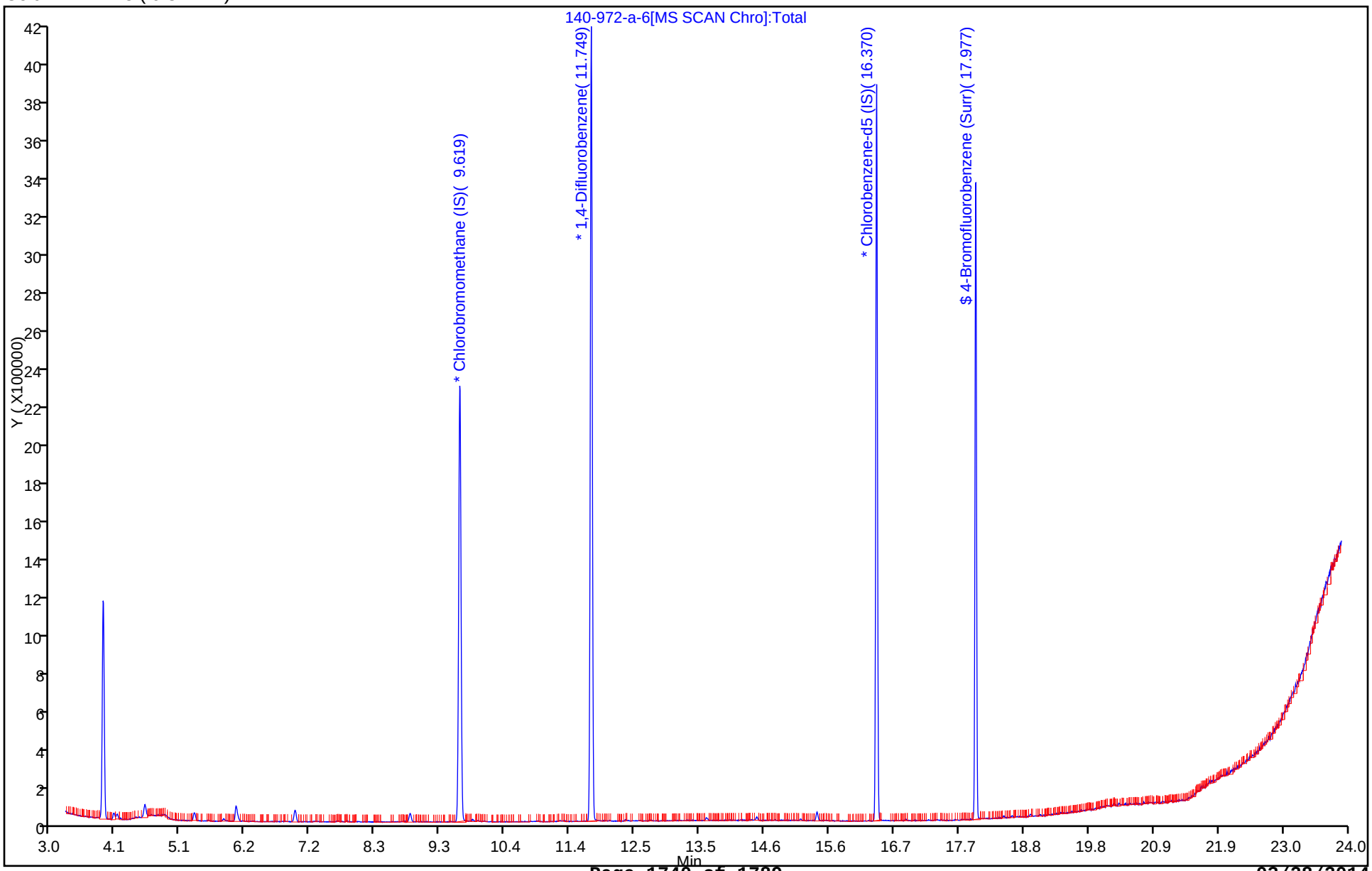
Report Date: 04-Mar-2014 08:23:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-6.D

Injection Date:	03-Mar-2014 17:21:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-6	Lab Sample ID:	140-972-6	Worklist Smp#:	9
Client ID:	10090				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 | Lab Sample ID: 140-972-7

Matrix: Air | Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 | Lab Sample ID: 140-972-7

Matrix: Air | Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 Lab Sample ID: 140-972-7

Matrix: Air Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10526 Lab Sample ID: 140-972-7

Matrix: Air Lab File ID: 140-972-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-7.D				
Lims ID:	140-972-A-7	Lab Sample ID:	140-972-7		
Client ID:	10526				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 23:05:30	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10526				
Misc. Info.:	G030314,TO15,140-0000487-010				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:24:00	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:24:00		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.625	9.641	-0.016	76	943908	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4121046	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	3121305	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1662879	4.02	

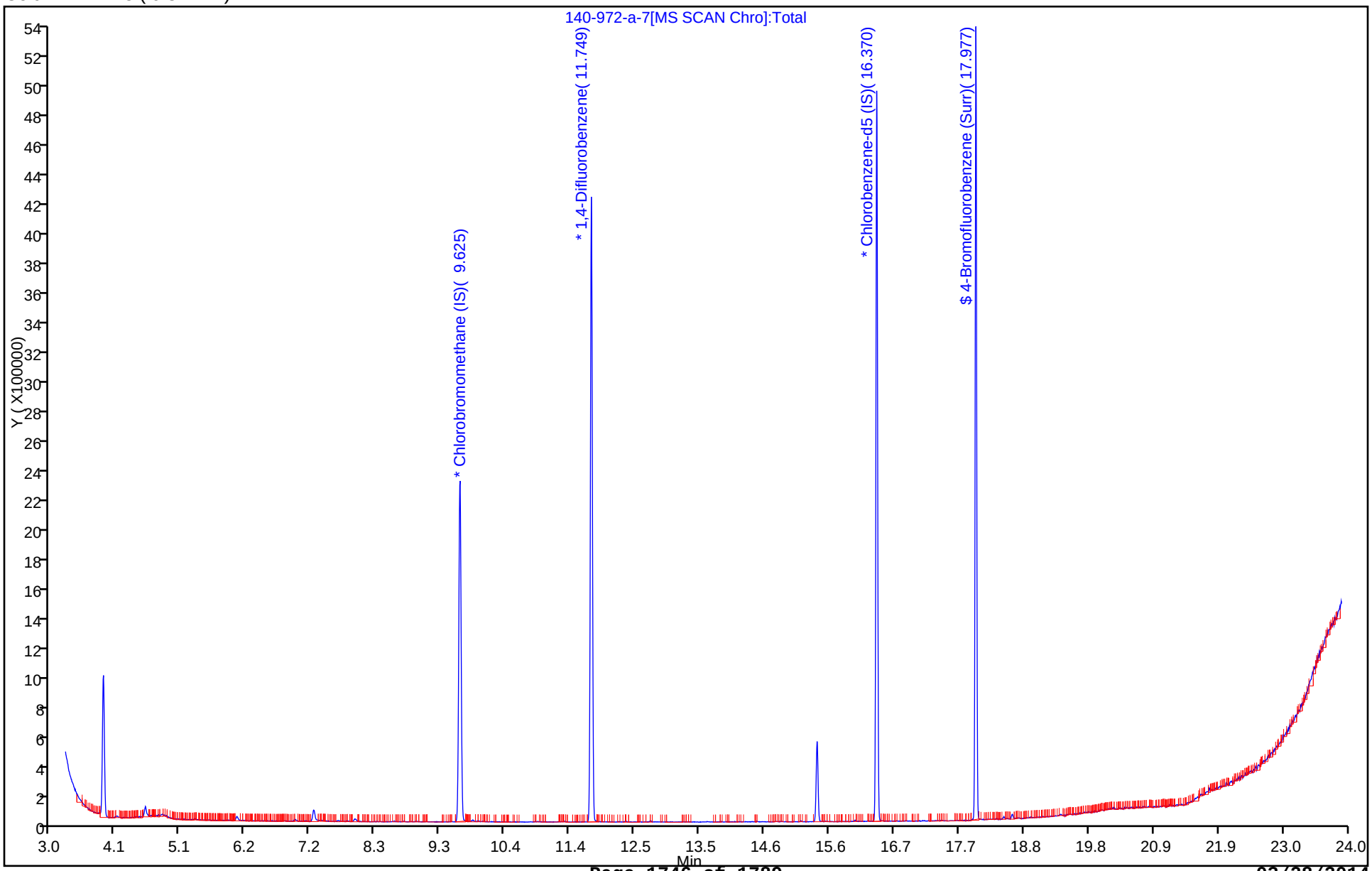
Report Date: 04-Mar-2014 08:24:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-7.D

Injection Date:	03-Mar-2014 23:05:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-7	Lab Sample ID:	140-972-7	Worklist Smp#:	10
Client ID:	10526				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 | Lab Sample ID: 140-972-8

Matrix: Air | Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 | Lab Sample ID: 140-972-8

Matrix: Air | Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 Lab Sample ID: 140-972-8

Matrix: Air Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09525 Lab Sample ID: 140-972-8

Matrix: Air Lab File ID: 140-972-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 23:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-8.D				
Lims ID:	140-972-A-8	Lab Sample ID:	140-972-8		
Client ID:	09525				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 23:58:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09525				
Misc. Info.:	G030314,TO15,140-0000487-011				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:24:21	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:24:21		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.635	9.641	-0.006	75	890397	4.00	
* 2 1,4-Difluorobenzene	114	11.760	11.760	0.0	94	3611803	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2217302	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1021513	3.48	

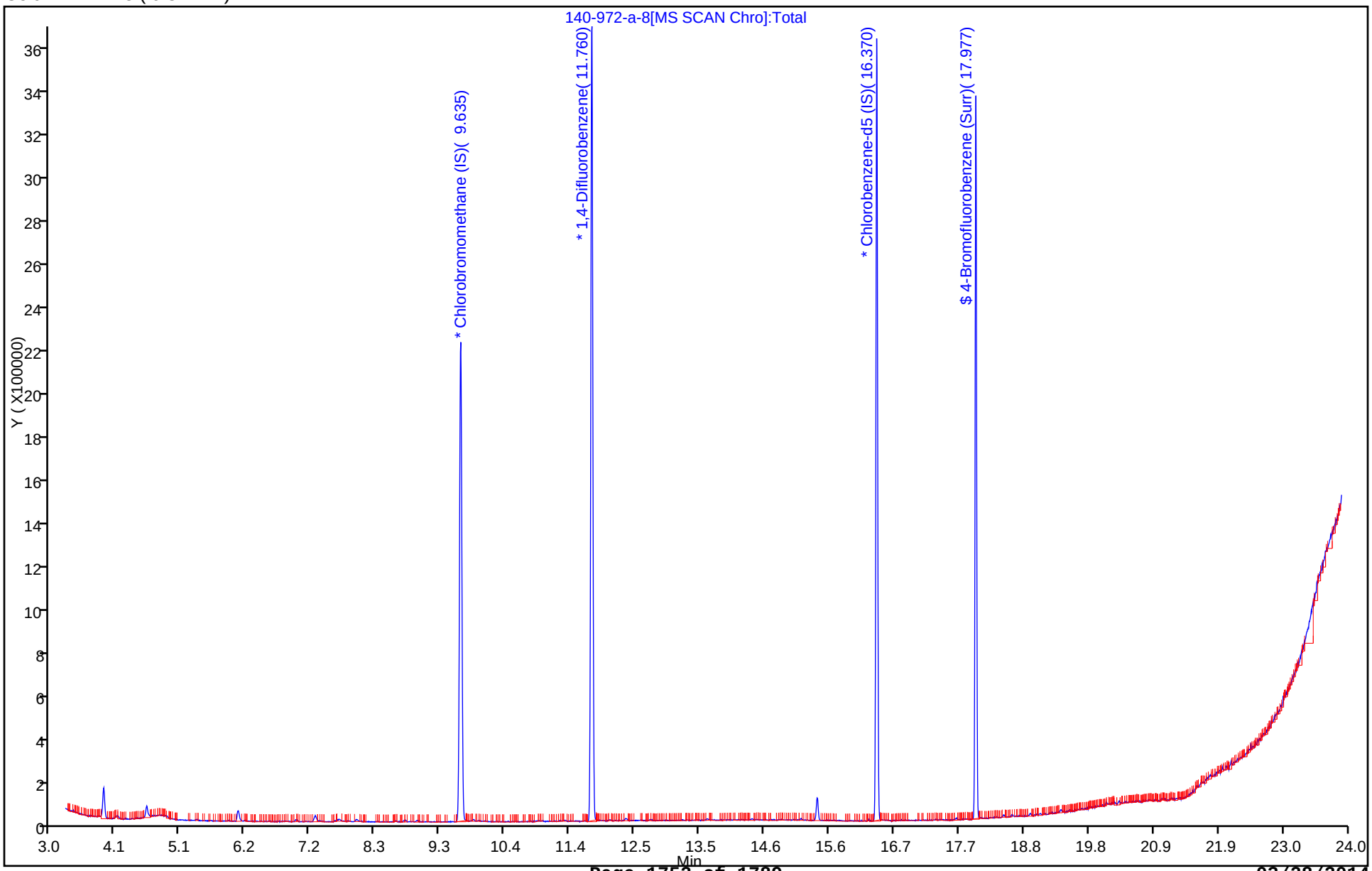
Report Date: 04-Mar-2014 08:24:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-8.D

Injection Date:	03-Mar-2014 23:58:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-8	Lab Sample ID:	140-972-8	Worklist Smp#:	11
Client ID:	09525				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 | Lab Sample ID: 140-972-9

Matrix: Air | Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 | Lab Sample ID: 140-972-9

Matrix: Air | Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 Lab Sample ID: 140-972-9

Matrix: Air Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10131 Lab Sample ID: 140-972-9

Matrix: Air Lab File ID: 140-972-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-9.D
Lims ID: 140-972-A-9 Lab Sample ID: 140-972-9
Client ID: 10131
Sample Type: Client
Inject. Date: 04-Mar-2014 00:52:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10131
Misc. Info.: G030314,TO15,140-0000487-012
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:24:42 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:24:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	75	969644	4.00	
*	2 1,4-Difluorobenzene	114	11.754	11.760	-0.006	94	4351268	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	87	2565515	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1167168	3.43	

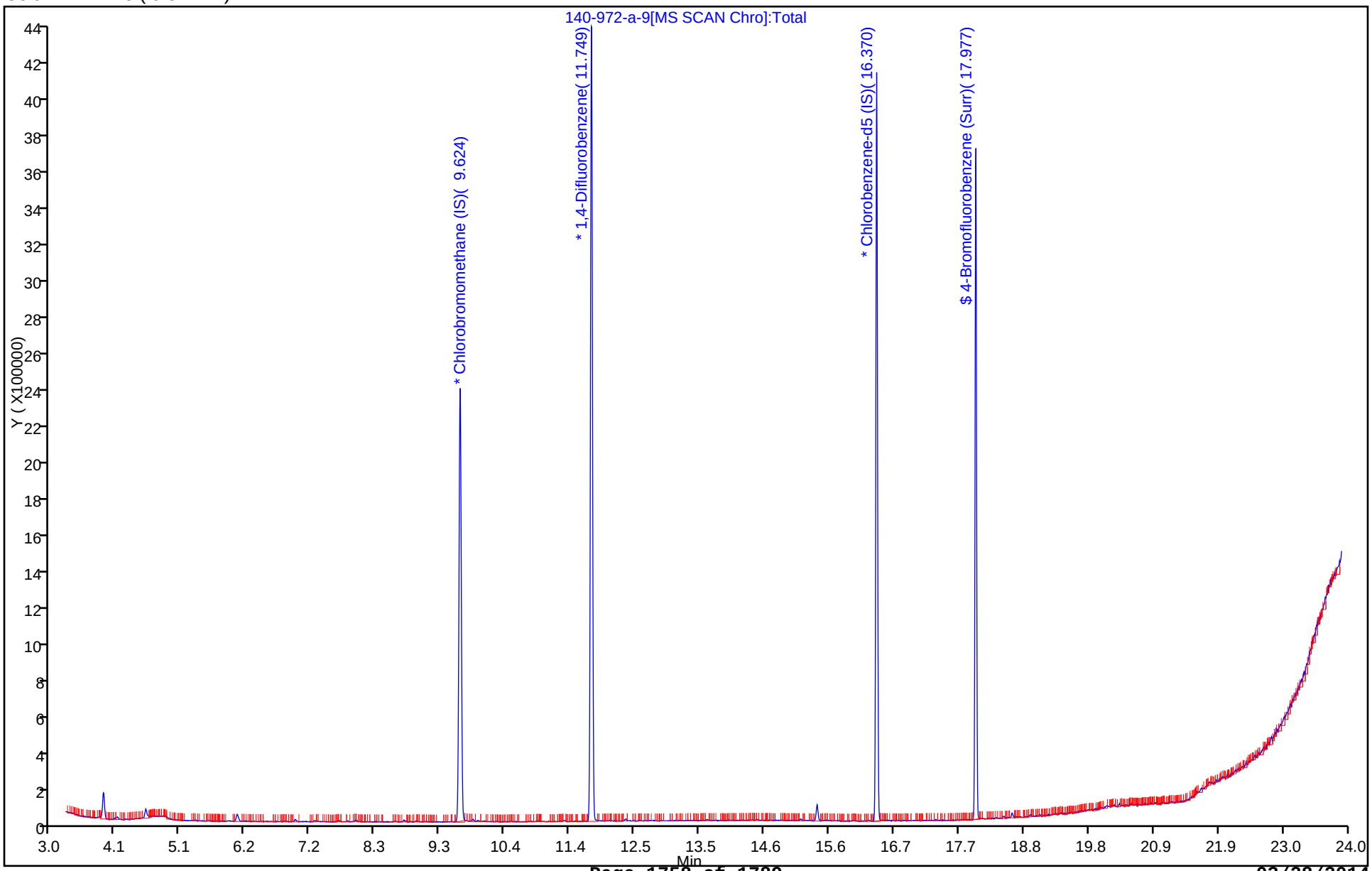
Report Date: 04-Mar-2014 08:24:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-9.D

Injection Date:	04-Mar-2014 00:52:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-9	Lab Sample ID:	140-972-9	Worklist Smp#:	12
Client ID:	10131				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 | Lab Sample ID: 140-972-13

Matrix: Air | Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 | Lab Sample ID: 140-972-13

Matrix: Air | Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 Lab Sample ID: 140-972-13

Matrix: Air Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 10551 Lab Sample ID: 140-972-13

Matrix: Air Lab File ID: 140-972-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 04:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-13.D
Lims ID: 140-972-A-13 Lab Sample ID: 140-972-13
Client ID: 10551
Sample Type: Client
Inject. Date: 04-Mar-2014 04:26:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10551
Misc. Info.: G030314,TO15,140-0000487-016
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:26:28 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:26:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.625	9.641	-0.016	76	965622	4.00	
*	2 1,4-Difluorobenzene	114	11.755	11.760	-0.005	94	4293373	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2452995	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	1059261	3.26	

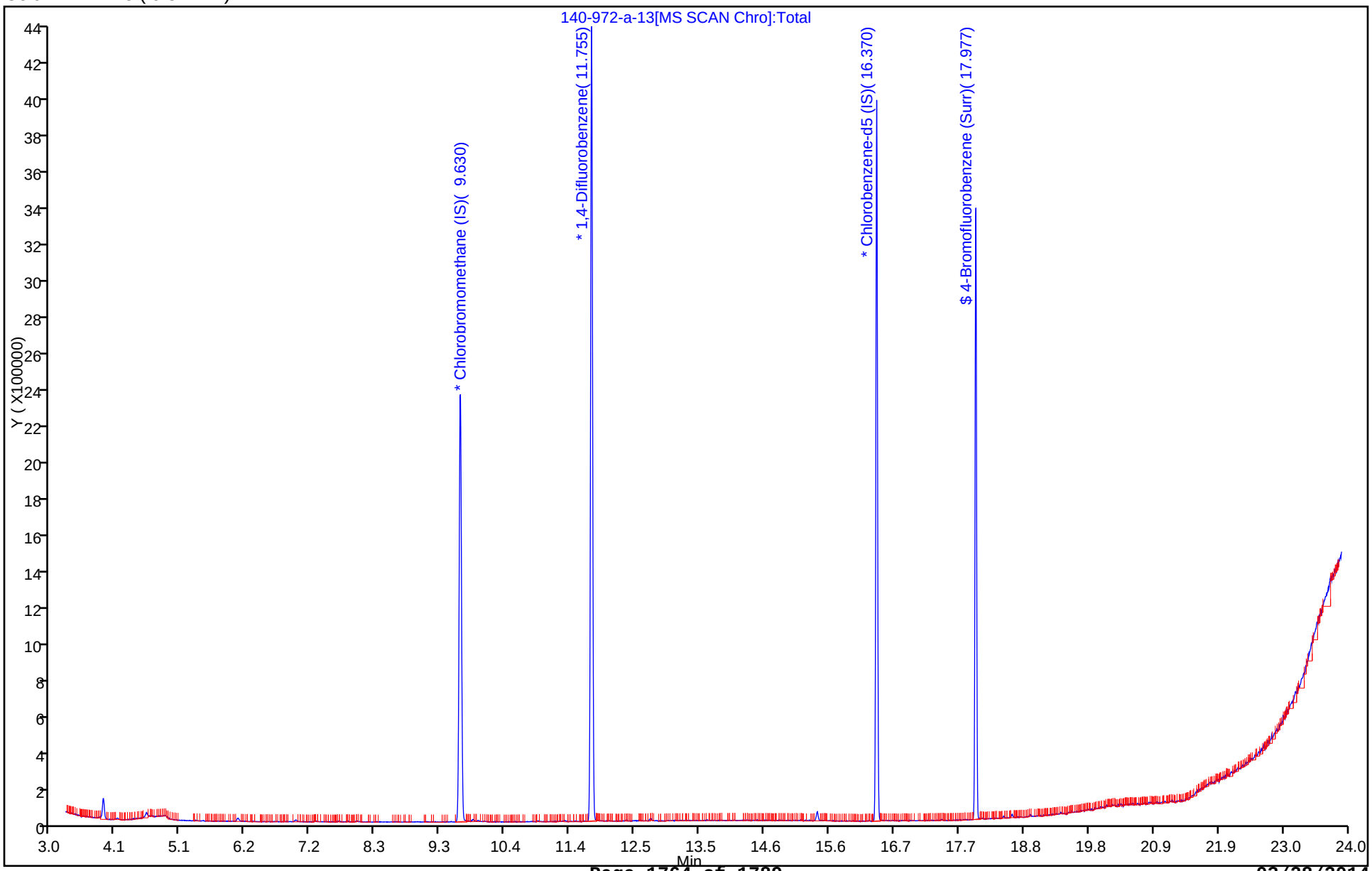
Report Date: 04-Mar-2014 08:26:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-13.D

Injection Date:	04-Mar-2014 04:26:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-13	Lab Sample ID:	140-972-13	Worklist Smp#:	16
Client ID:	10551				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 | Lab Sample ID: 140-972-14

Matrix: Air | Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 | Lab Sample ID: 140-972-14

Matrix: Air | Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 | Lab Sample ID: 140-972-14

Matrix: Air | Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 09975 Lab Sample ID: 140-972-14

Matrix: Air Lab File ID: 140-972-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 05:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-14.D				
Lims ID:	140-972-A-14	Lab Sample ID:	140-972-14		
Client ID:	09975				
Sample Type:	Client				
Inject. Date:	04-Mar-2014 05:19:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09975				
Misc. Info.:	G030314,TO15,140-0000487-017				
Operator ID:	7126	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 08:27:04	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 08:27:04		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	910296	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	3912507	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2263475	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	95	998614	3.33	
25 Isopropyl alcohol	45	6.109	6.109	0.0	94	15602	0.0505	
51 n-Butanol	31	11.258	11.242	0.016	40	3898	0.0605	
62 4-Methyl-2-pentanone (MIBK)	43	13.615	13.599	0.016	92	17794	0.0459	
93 1,2,4-Trimethylbenzene	105	19.072	19.072	0.0	96	32257	0.0599	

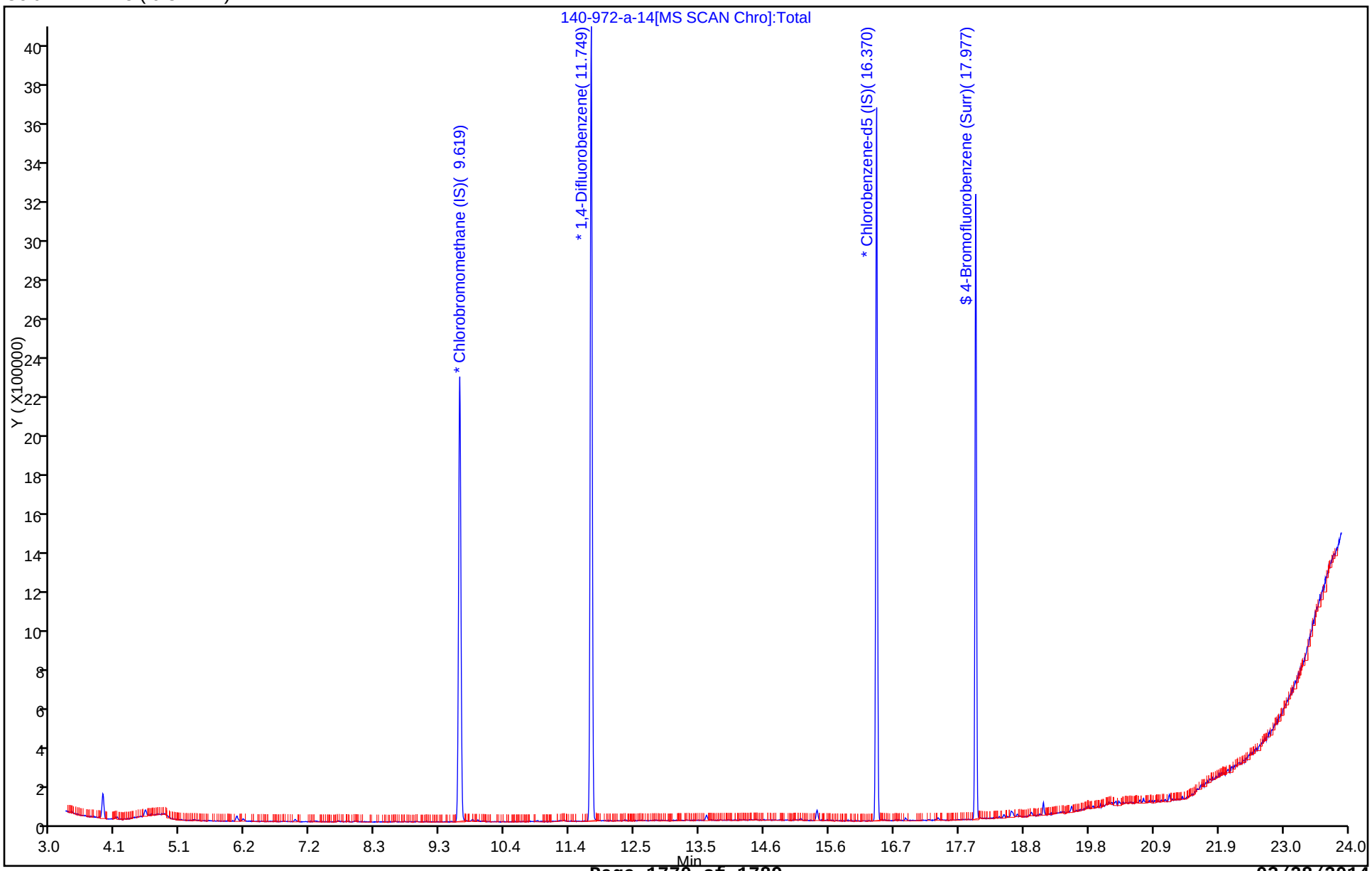
Report Date: 04-Mar-2014 08:27:05 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-14.D

Injection Date:	04-Mar-2014 05:19:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-14	Lab Sample ID:	140-972-14	Worklist Smp#:	17
Client ID:	09975				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 Lab Sample ID: 140-972-15

Matrix: Air Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 | Lab Sample ID: 140-972-15

Matrix: Air | Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 Lab Sample ID: 140-972-15

Matrix: Air Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11045 Lab Sample ID: 140-972-15

Matrix: Air Lab File ID: 140-972-a-15.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-15.D
Lims ID: 140-972-A-15 Lab Sample ID: 140-972-15
Client ID: 11045
Sample Type: Client
Inject. Date: 04-Mar-2014 06:13:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 11045
Misc. Info.: G030314,TO15,140-0000487-018
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:28:09 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:28:09

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.619	9.641	-0.022	75	928326	4.00	
*	2 1,4-Difluorobenzene	114	11.749	11.760	-0.011	94	4093050	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2442691	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	1112387	3.44	

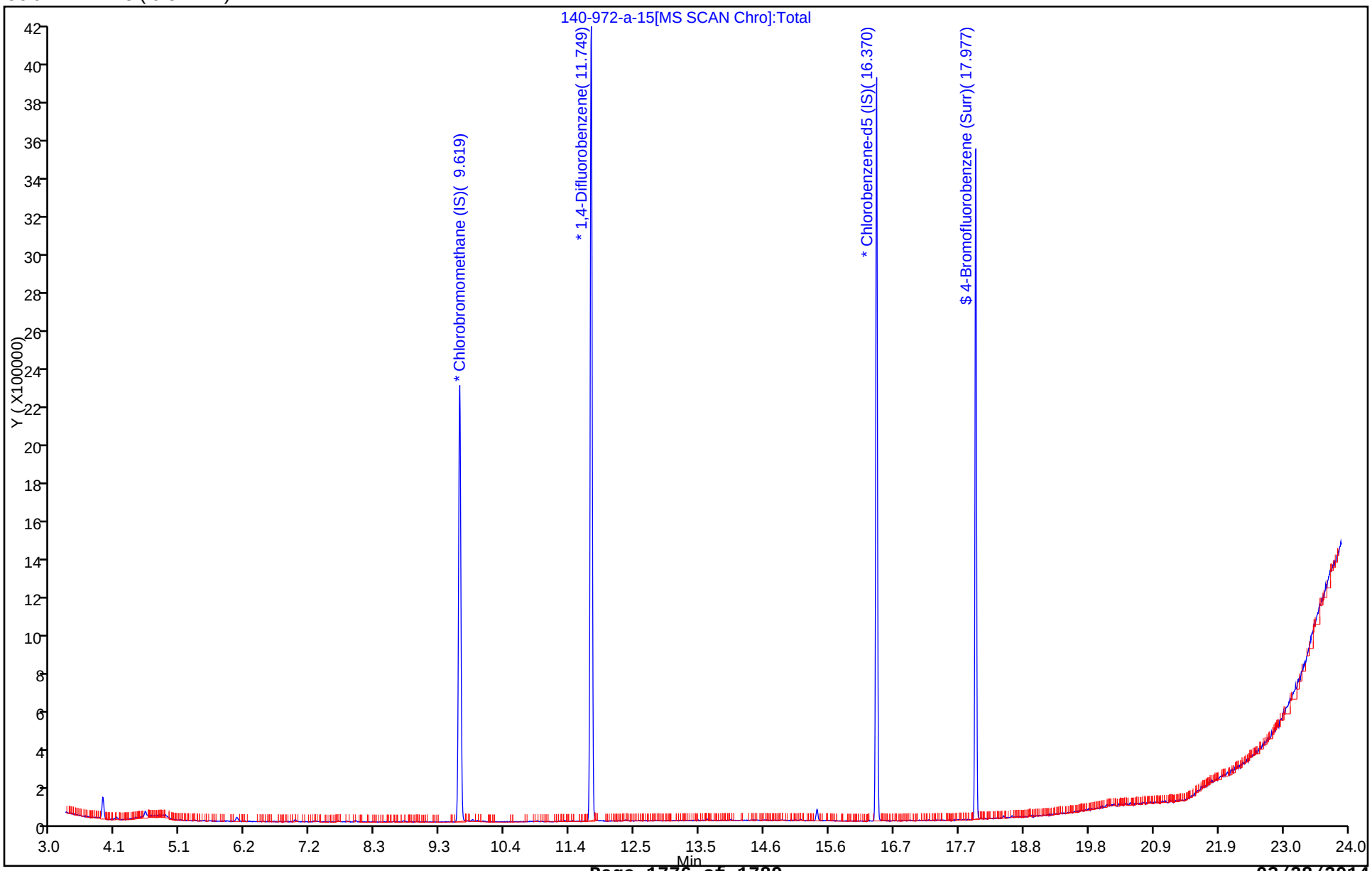
Report Date: 04-Mar-2014 08:28:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-15.D

Injection Date:	04-Mar-2014 06:13:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-15	Lab Sample ID:	140-972-15	Worklist Smp#:	18
Client ID:	11045				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 | Lab Sample ID: 140-972-16

Matrix: Air | Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 901 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-972-1

SDG No.:

Client Sample ID: 11041 Lab Sample ID: 140-972-16

Matrix: Air Lab File ID: 140-972-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/27/2014 15:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 07:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 901 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-16.D
Lims ID: 140-972-A-16 Lab Sample ID: 140-972-16
Client ID: 11041
Sample Type: Client
Inject. Date: 04-Mar-2014 07:08:30 ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 11041
Misc. Info.: G030314,TO15,140-0000487-019
Operator ID: 7126 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140227-487.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 08:28:43 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:28:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.624	9.641	-0.017	76	914418	4.00	
*	2 1,4-Difluorobenzene	114	11.754	11.760	-0.006	94	3845353	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.370	16.376	-0.006	86	2138063	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	857245	3.02	

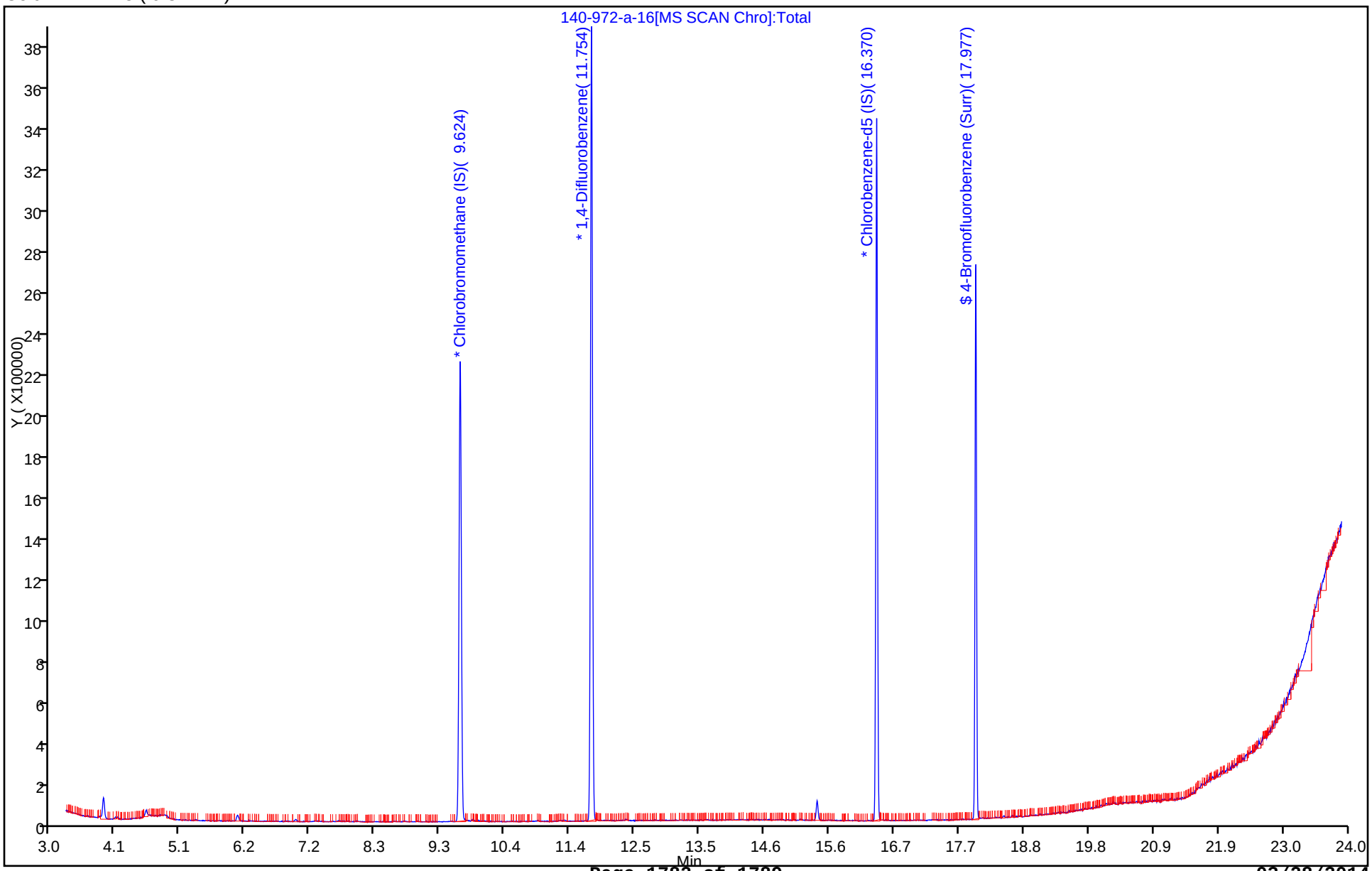
Report Date: 04-Mar-2014 08:28:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140227-487.b\140-972-a-16.D

Injection Date:	04-Mar-2014 07:08:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-972-A-16	Lab Sample ID:	140-972-16	Worklist Smp#:	19
Client ID:	11041				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Jessica Ehlen	1 of 4 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Peter Cooper Village - IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NY	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 +Con Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Check one)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B7	3/14/14	0815	1550	-30	-5	09915	09609	X						X	X				72 °F
PCV-IA2-B4	3/14/14	0834	1645	-30+	-6	2755	10315	X						X	X				68 °F

140-1060 Chain of Custody

Sampled by :

J. Ehlen

Temperature (Fahrenheit)	Interior	Ambient
Start		25°F
Stop		46°F

J. Ehlen

Pressure (inches of Hg)	Interior	Ambient
Start		30.22
Stop		30.07

Received @ ambient
No Custody seal
4 boxes
KW 3/15/14
UPS Next DAY AIR
1Z 083 95E 44 5931 6911

Special Instructions/QC Requirements & Comments:

* other = temp of room where sample was collected

KW 3/15/14

Canisters Shipped by:	Date/Time: 3/14/14 1900	Canisters Received by:
Samples Relinquished by: Jessica Ehlen	Date/Time: 3/14/14 17:58	Received by:
Relinquished by:	Date/Time:	Received by: KW 3/15/14 0902

47 cc
56 cc
24 cams
24 flows

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	2 of 4 COCs
Company: AECOM	Phone: 212-377-8706		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip NY, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8416			
Project Name: Peter Cooper Village, IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NY	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + CoreEd MS PL(2)	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Composite)	Indoor Air	Ambient Air (Outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-1A1-B6	3-14-14	8:26	-5	-30	16.31	3188	10848	X						X					61 °F
PCV-1A2-B6		8:20	-5	-30	16.34	09708	09889	X						X	X				62 °F
PCV-1A1-B15		8:48	-5	-30	16.10	3713	09629	X						X	X				73 °F
PCV-1A2-B15		8:59	-5	-30	16.16	4056	09534	X						X	X				74 °F
PCV-1A3-B15		8:50	-6	-30	16.20	3786	10778	X						X	X				74 °F
PCV-AMB-7		8:31	-5	-30	15.47	10287	11045	X						X		X			32 °F

Switch

Sampled by :
J. Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		25 °F
Stop		46 °F

J. Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		30.22
Stop		30.07

Special Instructions/QC Requirements & Comments:
OTHER: TEMPS @ SAMPLE LOCATION

Canisters Shipped by:	Date/Time: 3/14/14 1900	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/14/14 17:01	Received by:
Relinquished by:	Date/Time:	Received by: KW 3/15/14 0902

TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865.291.3000 fax 865.584.4315

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Jennifer Pfeffer	**Samples Collected By:** Kristen Barbour	COC No:
Company Name: AECOM	**Phone:** 516-591-7313		3 of 4 COCs
Address: 125 Broad St	**Email:** Jessica.ehlen@aecom.com		
City/State/Zip: NY NY 10004			**For Lab Use Only:**
Phone: 212 377 5900	**Site Contact:** Jessica Ehlen		Walk-in Client:
FAX:	**TA Contact:** Jamie McKinney		Lab Sampling:
Project Name: E 21st Street Works former MGP	**Anaylsis Turnaround Time**		Job / SDG No.:
Site/Location: Peter Cooper Village	Standard (Specific): Standard		(See below for Add'l Items)
P O #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) confirmed MGP	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type Composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA1-B17	3/14/14							X								X	X	X				temp 70°F
PCV-IA2-B17	↓	~~855~~	1630	-29	-6	~~10655~~ 09117	~~10262~~ ~~10359~~	X								X	X	X				temp 66°F
PCV-IA3FD-B17		900	1608	-30	-5.5	10617	10105	X								X	X	X				temp 65°F
PCV-IA3-B17		900	1355	-26	-4	10357	10188	X								X	X	X				temp 65°F
PCV-IA4-B17		905	1535	-30	-3	10128	10587	X								X	X	X				temp 71°F
PCV-IA5-B17	↓	~~905~~	1555	-28	-5	10300	1073	X								X	X	X				temp 65°F
PCV-IA1-B9		806	1619	-30	-2	09759	10238	X								X	X	X				temp 67°F
PCV-IA1FD-B9		804	1617	-30	-4	09706	11047	X								X	X	X				temp 67°F
PCV-IA2-B9	↓	800	1617	-30	-3	11239	10580	X								X	X	X				temp 62°F

KB

Temperature (Fahrenheit)				
	Interior	Ambient	START	END
Start				
Stop		25		44

KB

~~Temperature (Fahrenheit)~~ Pressure			
	Interior	Ambient	
Start			
Stop		30.22	30.05

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:** 3/14/14 1900	**Samples Received by:**
Samples Relinquished by:	**Date / Time:** 3/14/14 17:05	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:** KW 3/15/14 0902

Lab Use Only: **Shipper Name:** **Opened by:** **Condition:**

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer	Sampled By: Sara Meissner	4 of 4 COCs
Company:	AECOM	Phone: 516-581-7313		
Address:	125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip	New York, NY	TAL Contact: Jamie McKinney		
Phone:	212-377-8400			
FAX:	212-377-8410			
Project Name:	Peter Cooper Village IA	Analysis Turnaround Time		
Site/location:	Peter Cooper Village, NYC	Standard (Specify) X		
PO #		Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed Mod List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Complete for Soil Gas)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B8	3/14/14	0830	1645	-30+	-5	10242	09994	X							X				59°
PCV-IA1FD-B8	3/14/14	0830	1315	-28	-5	10596	09990	X							X				59°
PCV-IA2-B8	3/14/14	0835	1603	-30	-5	10787	10005	X							X				63°
PCV-IA1-B20	3/14/14	0900	1637	-30	-5	09910	09824	X							X				67°
PCV-IA2-B20	3/14/14	0850	1635	-30	-4	09701	10248	X							X				67°
PCV-IA3-B20	3/14/14	0845	1701	-30	-12	10081	09576	X							X				65°
PCV-AMB-8	3/14/14	0840	1631	-30+	-3	10161	10829	X								X			33°

	Interior Temp	Ambient Temp
Start	69°	25° F
Stop	67°	46° F

	Pressure (inches of Hg)	
	Interior	Ambient
Start		30.22"
Stop		30.07"

Special Instructions/QC Requirements & Comments:

Note: 7 samples on COC (Last one AMB-8 Start Hg = -30+, End Hg = -5)

Canisters Shipped by:		Date/Time: 3/14/14 1900	Canisters Received by:
Samples Relinquished by:		Date/Time: 3/14/14 17:25	Received by:
Relinquished by:		Date/Time:	Received by: 3/15/14 0902

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DDF	3/17/2014	10.01	140-1060-a-1	X		-4.6	
DDF	3/17/2014	10.02	140-1060-a-2	X		-3.5	
DDF	3/17/2014	10.03	140-1060-a-3	X		-1.3	
DDF	3/17/2014	10.04	140-1060-a-4	X		-2.50	
DDF	3/17/2014	10.05	140-1060-a-5	X		0	
DDF	3/17/2014	10.06	140-1060-a-6	X		-1.2	
DDF	3/17/2014	10.07	140-1060-a-7	X		-4.5	
DDF	3/17/2014	10.08	140-1060-a-8	X		-2.5	
DDF	3/17/2014	10.09	140-1060-a-9	X		+0.5	
DDF	3/17/2014	10.10	140-1060-a-10	X		+0.6	
DDF	3/17/2014	10.11	140-1060-a-11	X		-2.3	
DDF	3/17/2014	10.12	140-1060-a-12	X		0	
DDF	3/17/2014	10.13	140-1060-a-13	X		0	
DDF	3/17/2014	10.14	140-1060-a-14	X		-5.9	
DDF	3/17/2014	10.15	140-1060-a-15	X		0	
DDF	3/17/2014	10.16	140-1060-a-16	X		-3.2	
DDF	3/17/2014	10.17	140-1060-a-17	X		0	
DDF	3/17/2014	10.18	140-1060-a-18	X		-5.4	
DDF	3/17/2014	10.19	140-1060-a-19	X		-3.4	
DDF	3/17/2014	10.20	140-1060-a-20	X		-5.4	
DDF	3/17/2014	10.21	140-1060-a-21	X		-4.9	
DDF	3/17/2014	10.22	140-1060-a-22	X		-3.9	
DDF	3/17/2014	10.23	140-1060-a-23	X		-11.9	
DDF	3/17/2014	10.24	140-1060-a-24	X		-2.7	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1060-1

Login Number: 1060

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 140-1063-1

Job Description: PCV/ST

For:
AECOM, Inc.
125 Broad Street
16th Floor
New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer

Approved for release.
Jamie A McKinney
Senior Project Manager
3/28/2014 9:17 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/28/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Comments
No additional comments.

Receipt
The samples were received on 3/17/2014 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 971 exhibited % difference of > 30% for the following analyte(s) acetone, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with “cn”.

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.065	J	0.20	0.030	ppb v/v	1.43		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1.43		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v	1.43		TO-15	Total/NA
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v	1.43		TO-15	Total/NA
2,2,4-Trimethylpentane	0.071	J	0.50	0.039	ppb v/v	1.43		TO-15	Total/NA
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v	1.43		TO-15	Total/NA
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v	1.43		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v	1.43		TO-15	Total/NA
Acetone	3.5	J	5.0	1.4	ppb v/v	1.43		TO-15	Total/NA
Benzene	0.26		0.20	0.056	ppb v/v	1.43		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1.43		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1.43		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1.43		TO-15	Total/NA
Ethanol	23		2.0	2.0	ppb v/v	1.43		TO-15	Total/NA
Ethylbenzene	0.079	J	0.20	0.068	ppb v/v	1.43		TO-15	Total/NA
Heptane	0.098	J	0.50	0.047	ppb v/v	1.43		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1.43		TO-15	Total/NA
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v	1.43		TO-15	Total/NA
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v	1.43		TO-15	Total/NA
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v	1.43		TO-15	Total/NA
o-Xylene	0.095	J	0.20	0.061	ppb v/v	1.43		TO-15	Total/NA
Propene	0.55	cn	0.50	0.077	ppb v/v	1.43		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1.43		TO-15	Total/NA
Toluene	0.99		0.20	0.12	ppb v/v	1.43		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1.43		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.36	J	1.1	0.16	ug/m3	1.43		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1.43		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1.43		TO-15	Total/NA
1,4-Dichlorobenzene	0.48	J	1.2	0.38	ug/m3	1.43		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33	J	2.3	0.18	ug/m3	1.43		TO-15	Total/NA
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3	1.43		TO-15	Total/NA
2-Methylbutane	1.1	J	1.5	0.091	ug/m3	1.43		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3	1.43		TO-15	Total/NA
Acetone	8.2	J	12	3.3	ug/m3	1.43		TO-15	Total/NA
Benzene	0.82		0.64	0.18	ug/m3	1.43		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1.43		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1.43		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1.43		TO-15	Total/NA
Ethanol	44		3.8	3.8	ug/m3	1.43		TO-15	Total/NA
Ethylbenzene	0.34	J	0.87	0.30	ug/m3	1.43		TO-15	Total/NA
Heptane	0.40	J	2.0	0.19	ug/m3	1.43		TO-15	Total/NA
Hexane	0.45	J	1.8	0.11	ug/m3	1.43		TO-15	Total/NA
Isopropyl alcohol	6.3		4.9	0.23	ug/m3	1.43		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1.43		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3	1.43		TO-15	Total/NA
o-Xylene	0.41	J	0.87	0.26	ug/m3	1.43		TO-15	Total/NA
Propene	0.94	cn	0.86	0.13	ug/m3	1.43		TO-15	Total/NA
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3	1.43		TO-15	Total/NA
Toluene	3.7		0.75	0.45	ug/m3	1.43		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA4-E14 (Continued)

Lab Sample ID: 140-1063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1.43		TO-15	Total/NA

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.098	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.6		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.072	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.098	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.7		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.40		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.11	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.38	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	98		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.35	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.71		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.32		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.13	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.2	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.068	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.27		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	2.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.48	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	7.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.84		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.36	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.40	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	16		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.56	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.3	J	1.7	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA5-E14 (Continued)

Lab Sample ID: 140-1063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	190		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.49	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.76	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.2	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.5		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.55	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.29	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.8		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.065	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.066	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.095	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.44	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.30		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.095	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.50		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	35		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.073	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.074	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.086	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.97	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.25		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.42		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.3	J	1.5	0.091	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA6-E14 (Continued)

Lab Sample ID: 140-1063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	0.56	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.95		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.47	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	66		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.32	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.30	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.51	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.99	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.95		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.37	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.7		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.090	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.12	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.53		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.49	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.31		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.37		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.048	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	36		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.086	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.22	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.42	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.12	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.77	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.62		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA7-E14 (Continued)

Lab Sample ID: 140-1063-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.58	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.0	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.6	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.98		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.8		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	67		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.44	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.35	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.77	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.51	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.059	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.13	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.29	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.52		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	9.2		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.055	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.99	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.087	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.79	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.33		0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMB-2 (Continued)

Lab Sample ID: 140-1063-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.39		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.33	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.28	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.52	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.85	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.1		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.77		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	17		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.33	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.49	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.95	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.96		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.38	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.2		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.058	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.27	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.2	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	8.0		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.057	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.64	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	0.60	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.55		0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMB-4 (Continued)

Lab Sample ID: 140-1063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.24	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.80	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.69		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	15		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.40	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.81	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.61	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.7		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.75	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.25		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.16	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.16	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.072	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	53		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.38		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.29	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	3.6		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.7		0.20	0.12	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B7 (Continued)

Lab Sample ID: 140-1063-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.68		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.97	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.14	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.22		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.75	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.88		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.78	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.5		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.78	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.25	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	99		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.79	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.0	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.8		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	13		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	7.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	3.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.61	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.5		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.92		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.21	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.36		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B7 (Continued)

Lab Sample ID: 140-1063-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.056	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.068	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	23		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.15	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.36	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.82		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.94		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.38		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.073	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.81	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.63	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.7		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.83		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.62	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.86	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.27	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.23	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	44		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.60	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.6		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.31	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.97	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B11 (Continued)

Lab Sample ID: 140-1063-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.096	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.099	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.5		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.40		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.17	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.34	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	8.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.13	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	160		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.21		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.50		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.7		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.60		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.32		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	5.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.070	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.20		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.79	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.58	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.41	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	7.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.4		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.85	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.4	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	20		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.67	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.43	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	290		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.90		0.87	0.30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B11 (Continued)

Lab Sample ID: 140-1063-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptane	0.77	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.8		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	21		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.1		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	8.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.10	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.83	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.5		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.29		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.099	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.37		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.042	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.077	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.64		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.090	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	56		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.18	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.18	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.31	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.47	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.61		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.24		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.9	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.64	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.61	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.72	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.5	J	2.9	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B11 (Continued)

Lab Sample ID: 140-1063-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	4.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.0		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.49	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.13	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.38	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.31	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	110		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.77	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.73	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.1	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.6	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.7		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1.64		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.21		0.20	0.063	ppb v/v	1.64		TO-15	Total/NA
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v	1.64		TO-15	Total/NA
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v	1.64		TO-15	Total/NA
2-Butanone (MEK)	1.6		1.0	0.20	ppb v/v	1.64		TO-15	Total/NA
2-Hexanone	0.088	J	0.50	0.058	ppb v/v	1.64		TO-15	Total/NA
2-Methylbutane	1.4		0.50	0.031	ppb v/v	1.64		TO-15	Total/NA
2-Methylpentane	0.33		0.20	0.20	ppb v/v	1.64		TO-15	Total/NA
4-Ethyltoluene	0.31	J	0.40	0.066	ppb v/v	1.64		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.56		0.50	0.045	ppb v/v	1.64		TO-15	Total/NA
Acetone	7.1		5.0	1.4	ppb v/v	1.64		TO-15	Total/NA
Benzene	0.40		0.20	0.056	ppb v/v	1.64		TO-15	Total/NA
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v	1.64		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1.64		TO-15	Total/NA
Chloroform	0.40		0.20	0.038	ppb v/v	1.64		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1.64		TO-15	Total/NA
Cyclohexane	0.10	J	0.50	0.040	ppb v/v	1.64		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1.64		TO-15	Total/NA
Ethanol	110		2.0	2.0	ppb v/v	1.64		TO-15	Total/NA
Ethylbenzene	0.21		0.20	0.068	ppb v/v	1.64		TO-15	Total/NA
Heptane	0.24	J	0.50	0.047	ppb v/v	1.64		TO-15	Total/NA
Hexane	0.42	J	0.50	0.032	ppb v/v	1.64		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA3-B11 (Continued)

Lab Sample ID: 140-1063-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	8.9		2.0	0.094	ppb v/v	1.64		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1.64		TO-15	Total/NA
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v	1.64		TO-15	Total/NA
o-Xylene	0.31		0.20	0.061	ppb v/v	1.64		TO-15	Total/NA
Propene	1.7	cn	0.50	0.077	ppb v/v	1.64		TO-15	Total/NA
Styrene	0.12	J	0.20	0.058	ppb v/v	1.64		TO-15	Total/NA
Tetrachloroethene	0.20		0.20	0.040	ppb v/v	1.64		TO-15	Total/NA
Toluene	1.3		0.20	0.12	ppb v/v	1.64		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1.64		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1.64		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.0		0.98	0.31	ug/m3	1.64		TO-15	Total/NA
1,4-Dichlorobenzene	0.86	J	1.2	0.38	ug/m3	1.64		TO-15	Total/NA
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3	1.64		TO-15	Total/NA
2-Butanone (MEK)	4.6		2.9	0.59	ug/m3	1.64		TO-15	Total/NA
2-Hexanone	0.36	J	2.0	0.24	ug/m3	1.64		TO-15	Total/NA
2-Methylbutane	4.1		1.5	0.091	ug/m3	1.64		TO-15	Total/NA
2-Methylpentane	1.2		0.70	0.70	ug/m3	1.64		TO-15	Total/NA
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3	1.64		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.3		2.0	0.18	ug/m3	1.64		TO-15	Total/NA
Acetone	17		12	3.3	ug/m3	1.64		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1.64		TO-15	Total/NA
Carbon disulfide	0.12	J	1.6	0.097	ug/m3	1.64		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1.64		TO-15	Total/NA
Chloroform	2.0		0.98	0.19	ug/m3	1.64		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1.64		TO-15	Total/NA
Cyclohexane	0.36	J	1.7	0.14	ug/m3	1.64		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1.64		TO-15	Total/NA
Ethanol	210		3.8	3.8	ug/m3	1.64		TO-15	Total/NA
Ethylbenzene	0.93		0.87	0.30	ug/m3	1.64		TO-15	Total/NA
Heptane	0.97	J	2.0	0.19	ug/m3	1.64		TO-15	Total/NA
Hexane	1.5	J	1.8	0.11	ug/m3	1.64		TO-15	Total/NA
Isopropyl alcohol	22		4.9	0.23	ug/m3	1.64		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1.64		TO-15	Total/NA
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3	1.64		TO-15	Total/NA
o-Xylene	1.4		0.87	0.26	ug/m3	1.64		TO-15	Total/NA
Propene	3.0	cn	0.86	0.13	ug/m3	1.64		TO-15	Total/NA
Styrene	0.52	J	0.85	0.25	ug/m3	1.64		TO-15	Total/NA
Tetrachloroethene	1.4		1.4	0.27	ug/m3	1.64		TO-15	Total/NA
Toluene	5.0		0.75	0.45	ug/m3	1.64		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1.64		TO-15	Total/NA

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.19	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.51		0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA1-E14 (Continued)

Lab Sample ID: 140-1063-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylpentane	0.56		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.092	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.90		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.092	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.17	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	68		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.26	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.47	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.73		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.28		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.31		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.92	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.4		2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	6.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	2.0		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	2.9		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.45	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.60	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	130		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.1	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.6	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.2		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.1		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA2-E14 — Lab Sample ID: 140-1063-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.062	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.052	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	53		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.078	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.17	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.070	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.53		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.50		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.1	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.78		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	100		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.32	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.61	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.75	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.30	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.6		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA3-E14 — Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1.84		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v	1.84		TO-15	Total/NA
1,4-Dichlorobenzene	0.22		0.20	0.064	ppb v/v	1.84		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA3-E14 (Continued)

Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v	1.84		TO-15	Total/NA
2-Butanone (MEK)	2.8		1.0	0.20	ppb v/v	1.84		TO-15	Total/NA
2-Hexanone	0.19	J	0.50	0.058	ppb v/v	1.84		TO-15	Total/NA
2-Methylbutane	0.33	J	0.50	0.031	ppb v/v	1.84		TO-15	Total/NA
4-Ethyltoluene	0.082	J	0.40	0.066	ppb v/v	1.84		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.1		0.50	0.045	ppb v/v	1.84		TO-15	Total/NA
Acetone	16		5.0	1.4	ppb v/v	1.84		TO-15	Total/NA
Benzene	0.25		0.20	0.056	ppb v/v	1.84		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1.84		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.038	ppb v/v	1.84		TO-15	Total/NA
Chloromethane	0.62		0.50	0.16	ppb v/v	1.84		TO-15	Total/NA
Cyclohexane	0.049	J	0.50	0.040	ppb v/v	1.84		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v	1.84		TO-15	Total/NA
Ethanol	180		2.0	2.0	ppb v/v	1.84		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1.84		TO-15	Total/NA
Heptane	0.27	J	0.50	0.047	ppb v/v	1.84		TO-15	Total/NA
Hexane	0.18	J	0.50	0.032	ppb v/v	1.84		TO-15	Total/NA
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v	1.84		TO-15	Total/NA
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v	1.84		TO-15	Total/NA
m-Xylene & p-Xylene	0.82		0.20	0.12	ppb v/v	1.84		TO-15	Total/NA
o-Xylene	0.32		0.20	0.061	ppb v/v	1.84		TO-15	Total/NA
Propene	3.1	cn	0.50	0.077	ppb v/v	1.84		TO-15	Total/NA
Tetrachloroethene	0.35		0.20	0.040	ppb v/v	1.84		TO-15	Total/NA
Tetrahydrofuran	0.074	J	1.0	0.063	ppb v/v	1.84		TO-15	Total/NA
Toluene	1.0		0.20	0.12	ppb v/v	1.84		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1.84		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1.84		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.70	J	0.98	0.31	ug/m3	1.84		TO-15	Total/NA
1,4-Dichlorobenzene	1.3		1.2	0.38	ug/m3	1.84		TO-15	Total/NA
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3	1.84		TO-15	Total/NA
2-Butanone (MEK)	8.1		2.9	0.59	ug/m3	1.84		TO-15	Total/NA
2-Hexanone	0.79	J	2.0	0.24	ug/m3	1.84		TO-15	Total/NA
2-Methylbutane	0.96	J	1.5	0.091	ug/m3	1.84		TO-15	Total/NA
4-Ethyltoluene	0.40	J	2.0	0.32	ug/m3	1.84		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.3		2.0	0.18	ug/m3	1.84		TO-15	Total/NA
Acetone	38		12	3.3	ug/m3	1.84		TO-15	Total/NA
Benzene	0.79		0.64	0.18	ug/m3	1.84		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1.84		TO-15	Total/NA
Chloroform	0.57	J	0.98	0.19	ug/m3	1.84		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1.84		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1.84		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1.84		TO-15	Total/NA
Ethanol	340		3.8	3.8	ug/m3	1.84		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1.84		TO-15	Total/NA
Heptane	1.1	J	2.0	0.19	ug/m3	1.84		TO-15	Total/NA
Hexane	0.62	J	1.8	0.11	ug/m3	1.84		TO-15	Total/NA
Isopropyl alcohol	7.3		4.9	0.23	ug/m3	1.84		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.45	ug/m3	1.84		TO-15	Total/NA
m-Xylene & p-Xylene	3.6		0.87	0.52	ug/m3	1.84		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA3-E14 (Continued)

Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	1.4		0.87	0.26	ug/m3	1.84		TO-15	Total/NA
Propene	5.3	cn	0.86	0.13	ug/m3	1.84		TO-15	Total/NA
Tetrachloroethene	2.4		1.4	0.27	ug/m3	1.84		TO-15	Total/NA
Tetrahydrofuran	0.22	J	2.9	0.19	ug/m3	1.84		TO-15	Total/NA
Toluene	3.8		0.75	0.45	ug/m3	1.84		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1.84		TO-15	Total/NA

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.52		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	3.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.9		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.27		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.30	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.44	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	270	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.41		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.13	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.053	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	200	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	4.6		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.39	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.35	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.3		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	14		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	19		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	5.2		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	31	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.93		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	130	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.057	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	260		91	25	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	200		36	36	ppb v/v	1		TO-15	Total/NA
Toluene - DL	110		3.6	2.2	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.5		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.66	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	9.2		2.9	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA1-B5 (Continued)

Lab Sample ID: 140-1063-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	8.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.94		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.8	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	640	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.39	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.26	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.42	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	390	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	20		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.6	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.2	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	10		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	50		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	81		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	23		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	53	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	4.0		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	500	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.31	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	630		220	60	ug/m3	1		TO-15	Total/NA
Ethanol - DL	380		69	69	ug/m3	1		TO-15	Total/NA
Toluene - DL	420		14	8.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.35		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	3.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.32		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.62		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	230	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.24	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.089	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.18	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IA2-B5 (Continued)

Lab Sample ID: 140-1063-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	200		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	3.2		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.44	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.38	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	17		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	3.3		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	0.91		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	100	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.061	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	220		91	25	ppb v/v	1		TO-15	Total/NA
Toluene - DL	65		3.6	2.2	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.75	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	9.8		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	9.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.1		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.6		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	540	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.74	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.43	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.63	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	370		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	14		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.8	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	59		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	53		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	14		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	3.9		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3	1		TO-15	Total/NA
Toluene	380	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.33	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	510		220	60	ug/m3	1		TO-15	Total/NA
Toluene - DL	250		14	8.2	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.48		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.095	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	8.6		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	3.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.22	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	3.3		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	9.8	*	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.37		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.054	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	720	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.3		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	1.2		0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.30	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	46	E	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.10	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.6		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	9.5		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	17		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.23		0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	760		20	20	ppb v/v	1		TO-15	Total/NA
Methylene Chloride - DL	33		5.0	1.3	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.3		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.62	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.57	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.67	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	25		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	9.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.85		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.1	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	13		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	23	*	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PCV-IAPC-B5 (Continued)

Lab Sample ID: 140-1063-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.17	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.42	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	1400	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.5		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	5.0		2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.0	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	21		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	160	E	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.54	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	6.9		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	40		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	65		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.2		1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	1400		38	38	ug/m3	1		TO-15	Total/NA
Methylene Chloride - DL	120		17	4.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.28	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	7.4		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.095	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.71	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.088	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.41	J cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.093	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.36		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.76	J	0.98	0.31	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMB-1 (Continued)

Lab Sample ID: 140-1063-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.83	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.64		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.97	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	14		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.34	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.7	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.98	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.97		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.38	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	0.70	J cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.63	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.22	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.32	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	1.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.053	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.83	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.29	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	0.43	J cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.37		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.65	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.96	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.42	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	4.1	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.74		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AMB-3 (Continued)

Lab Sample ID: 140-1063-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	23		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.39	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.1	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.0	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.62	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	0.74	J cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	1.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.088	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.25		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.083	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.44	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.74		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.27	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.28		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroethane	0.11	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Chloroform	0.55		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	50		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.092	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.098	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.11	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.075	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.57		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.43	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.1	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.4	J	12	3.3	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA1-E19 (Continued)

Lab Sample ID: 140-1063-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.89		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroethane	0.30	J	0.53	0.092	ug/m3	1		TO-15	Total/NA
Chloroform	2.7		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	95		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.40	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.40	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.49	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.1		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.95	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.49	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.51	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.051	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.26		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.056	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.30	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.47	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.9	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	160		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.084	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	6.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.20		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.075	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.93	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.58		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.28	J	1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA2-E19 (Continued)

Lab Sample ID: 140-1063-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.26	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.88	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.4	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.57	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.68	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	300		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.34	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.42	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	15		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.85		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.33	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.64		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.97		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.050	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	19		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.058	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.16	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.063	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.6	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.050	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.82		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.31	J	0.88	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA1-E17 (Continued)

Lab Sample ID: 140-1063-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.0		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	35		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.41	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.81	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.28	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	4.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	3.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.61		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	2.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.052	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	18		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.076	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.30	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.15	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.062	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.63		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.80	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA1FD-E17 (Continued)

Lab Sample ID: 140-1063-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.78		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.26	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	33		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.31	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.50	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.65	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.27	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	4.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.58		0.40	0.064	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.64		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.31	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	7.4		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.71		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.24		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	1.2		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	68		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.16	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.22	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.14	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	3.8	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.10	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.044	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA2-E17 (Continued)

Lab Sample ID: 140-1063-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	1.3		0.88	0.14	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.82	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.2		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	18		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	2.3		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.2		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	2.5		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	130		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.70	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.44	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.59	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.78	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.59	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	6.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.43	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.30	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14
Date Collected: 03/13/14 17:12
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.065**	**J**	0.20	0.030	ppb v/v			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**J**	0.20	0.031	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	**0.075**	**J**	0.20	0.063	ppb v/v			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,4-Dichlorobenzene	**0.079**	**J**	0.20	0.064	ppb v/v			03/19/14 16:52	1.43
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	**0.071**	**J**	0.50	0.039	ppb v/v			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
2-Butanone (MEK)	**0.55**	**J**	1.0	0.20	ppb v/v			03/19/14 16:52	1.43
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 16:52	1.43
2-Methylbutane	**0.37**	**J**	0.50	0.031	ppb v/v			03/19/14 16:52	1.43
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	**0.24**	**J**	0.50	0.045	ppb v/v			03/19/14 16:52	1.43
Acetone	**3.5**	**J**	5.0	1.4	ppb v/v			03/19/14 16:52	1.43
Benzene	**0.26**		0.20	0.056	ppb v/v			03/19/14 16:52	1.43
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 16:52	1.43
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 16:52	1.43
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 16:52	1.43
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 16:52	1.43
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 16:52	1.43
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 16:52	1.43
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 16:52	1.43
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Ethanol	**23**		2.0	2.0	ppb v/v			03/19/14 16:52	1.43
Ethylbenzene	**0.079**	**J**	0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Heptane	**0.098**	**J**	0.50	0.047	ppb v/v			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 16:52	1.43

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14
Date Collected: 03/13/14 17:12
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/19/14 16:52	1.43
Indane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Indene	ND		0.40	0.40	ppb v/v			03/19/14 16:52	1.43
Isopropyl alcohol	**2.6**		2.0	0.094	ppb v/v			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 16:52	1.43
Methylene Chloride	**0.36**	**J**	0.50	0.13	ppb v/v			03/19/14 16:52	1.43
m-Xylene & p-Xylene	**0.25**		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 16:52	1.43
o-Xylene	**0.095**	**J**	0.20	0.061	ppb v/v			03/19/14 16:52	1.43
Propene	**0.55**	**cn**	0.50	0.077	ppb v/v			03/19/14 16:52	1.43
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 16:52	1.43
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/19/14 16:52	1.43
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 16:52	1.43
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Toluene	**0.99**		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 16:52	1.43
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/19/14 16:52	1.43
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 16:52	1.43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.36**	**J**	1.1	0.16	ug/m3			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.53**	**J**	1.5	0.24	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	**0.37**	**J**	0.98	0.31	ug/m3			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 16:52	1.43
1,4-Dichlorobenzene	**0.48**	**J**	1.2	0.38	ug/m3			03/19/14 16:52	1.43
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	**0.33**	**J**	2.3	0.18	ug/m3			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 16:52	1.43
2-Butanone (MEK)	**1.6**	**J**	2.9	0.59	ug/m3			03/19/14 16:52	1.43
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 16:52	1.43
2-Methylbutane	**1.1**	**J**	1.5	0.091	ug/m3			03/19/14 16:52	1.43
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 16:52	1.43
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	**1.0**	**J**	2.0	0.18	ug/m3			03/19/14 16:52	1.43

Client Sample ID: IA4-E14
Date Collected: 03/13/14 17:12
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.2**	**J**	12	3.3	ug/m3			03/19/14 16:52	1.43
Benzene	**0.82**		0.64	0.18	ug/m3			03/19/14 16:52	1.43
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 16:52	1.43
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 16:52	1.43
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 16:52	1.43
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 16:52	1.43
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 16:52	1.43
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/19/14 16:52	1.43
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 16:52	1.43
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 16:52	1.43
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 16:52	1.43
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 16:52	1.43
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 16:52	1.43
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 16:52	1.43
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 16:52	1.43
Ethanol	**44**		3.8	3.8	ug/m3			03/19/14 16:52	1.43
Ethylbenzene	**0.34**	**J**	0.87	0.30	ug/m3			03/19/14 16:52	1.43
Heptane	**0.40**	**J**	2.0	0.19	ug/m3			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 16:52	1.43
Hexane	**0.45**	**J**	1.8	0.11	ug/m3			03/19/14 16:52	1.43
Indane	ND		0.97	0.97	ug/m3			03/19/14 16:52	1.43
Indene	ND		1.9	1.9	ug/m3			03/19/14 16:52	1.43
Isopropyl alcohol	**6.3**		4.9	0.23	ug/m3			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 16:52	1.43
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/19/14 16:52	1.43
m-Xylene & p-Xylene	**1.1**		0.87	0.52	ug/m3			03/19/14 16:52	1.43
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 16:52	1.43
o-Xylene	**0.41**	**J**	0.87	0.26	ug/m3			03/19/14 16:52	1.43
Propene	**0.94**	**cn**	0.86	0.13	ug/m3			03/19/14 16:52	1.43
Styrene	ND		0.85	0.25	ug/m3			03/19/14 16:52	1.43
Tetrachloroethene	**0.99**	**J**	1.4	0.27	ug/m3			03/19/14 16:52	1.43
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 16:52	1.43
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 16:52	1.43
Toluene	**3.7**		0.75	0.45	ug/m3			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 16:52	1.43
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 16:52	1.43
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 16:52	1.43
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 16:52	1.43

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*60 - 140*		*03/19/14 16:52*	*1.43*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14
Date Collected: 03/13/14 16:40
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.064**	**J**	0.20	0.031	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 23:43	1
1,2,4-Trimethylbenzene	**0.098**	**J**	0.20	0.063	ppb v/v			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,4-Dichlorobenzene	**0.078**	**J**	0.20	0.064	ppb v/v			03/18/14 23:43	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 23:43	1
2,2,4-Trimethylpentane	**0.081**	**J**	0.50	0.039	ppb v/v			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
2-Butanone (MEK)	**0.62**	**J**	1.0	0.20	ppb v/v			03/18/14 23:43	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 23:43	1
2-Methylbutane	**2.6**		0.50	0.031	ppb v/v			03/18/14 23:43	1
2-Methylpentane	**0.24**		0.20	0.20	ppb v/v			03/18/14 23:43	1
4-Ethyltoluene	**0.072**	**J**	0.40	0.066	ppb v/v			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	**0.098**	**J**	0.50	0.045	ppb v/v			03/18/14 23:43	1
Acetone	**6.7**		5.0	1.4	ppb v/v			03/18/14 23:43	1
Benzene	**0.40**		0.20	0.056	ppb v/v			03/18/14 23:43	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 23:43	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 23:43	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 23:43	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 23:43	1
Chloroform	**0.11**	**J**	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chloromethane	**0.59**		0.50	0.16	ppb v/v			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 23:43	1
Cyclohexane	**0.38**	**J**	0.50	0.040	ppb v/v			03/18/14 23:43	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 23:43	1
Dichlorodifluoromethane	**0.42**		0.20	0.068	ppb v/v			03/18/14 23:43	1
Ethanol	**98**		2.0	2.0	ppb v/v			03/18/14 23:43	1
Ethylbenzene	**0.11**	**J**	0.20	0.068	ppb v/v			03/18/14 23:43	1
Heptane	**0.19**	**J**	0.50	0.047	ppb v/v			03/18/14 23:43	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 23:43	1
Hexane	**0.35**	**J**	0.50	0.032	ppb v/v			03/18/14 23:43	1

Client Sample ID: IA5-E14

Date Collected: 03/13/14 16:40
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 23:43	1
Isopropyl alcohol	**4.9**		2.0	0.094	ppb v/v			03/18/14 23:43	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 23:43	1
Methylene Chloride	**0.71**		0.50	0.13	ppb v/v			03/18/14 23:43	1
m-Xylene & p-Xylene	**0.32**		0.20	0.12	ppb v/v			03/18/14 23:43	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 23:43	1
o-Xylene	**0.13**	**J**	0.20	0.061	ppb v/v			03/18/14 23:43	1
Propene	**2.2**	**cn**	0.50	0.077	ppb v/v			03/18/14 23:43	1
Styrene	**0.068**	**J**	0.20	0.058	ppb v/v			03/18/14 23:43	1
Tetrachloroethene	**0.27**		0.20	0.040	ppb v/v			03/18/14 23:43	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 23:43	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Toluene	**2.1**		0.20	0.12	ppb v/v			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 23:43	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/18/14 23:43	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 23:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.49**	**J**	1.5	0.24	ug/m3			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 23:43	1
1,2,4-Trimethylbenzene	**0.48**	**J**	0.98	0.31	ug/m3			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 23:43	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 23:43	1
1,4-Dichlorobenzene	**0.47**	**J**	1.2	0.38	ug/m3			03/18/14 23:43	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 23:43	1
2,2,4-Trimethylpentane	**0.38**	**J**	2.3	0.18	ug/m3			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 23:43	1
2-Butanone (MEK)	**1.8**	**J**	2.9	0.59	ug/m3			03/18/14 23:43	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 23:43	1
2-Methylbutane	**7.6**		1.5	0.091	ug/m3			03/18/14 23:43	1
2-Methylpentane	**0.84**		0.70	0.70	ug/m3			03/18/14 23:43	1
4-Ethyltoluene	**0.36**	**J**	2.0	0.32	ug/m3			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	**0.40**	**J**	2.0	0.18	ug/m3			03/18/14 23:43	1
Acetone	**16**		12	3.3	ug/m3			03/18/14 23:43	1

Client Sample ID: IA5-E14
Date Collected: 03/13/14 16:40
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		0.64	0.18	ug/m3			03/18/14 23:43	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 23:43	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 23:43	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 23:43	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 23:43	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 23:43	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			03/18/14 23:43	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 23:43	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 23:43	1
Chloroform	**0.56**	**J**	0.98	0.19	ug/m3			03/18/14 23:43	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 23:43	1
Cyclohexane	**1.3**	**J**	1.7	0.14	ug/m3			03/18/14 23:43	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 23:43	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/18/14 23:43	1
Ethanol	**190**		3.8	3.8	ug/m3			03/18/14 23:43	1
Ethylbenzene	**0.49**	**J**	0.87	0.30	ug/m3			03/18/14 23:43	1
Heptane	**0.76**	**J**	2.0	0.19	ug/m3			03/18/14 23:43	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 23:43	1
Hexane	**1.2**	**J**	1.8	0.11	ug/m3			03/18/14 23:43	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 23:43	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 23:43	1
Isopropyl alcohol	**12**		4.9	0.23	ug/m3			03/18/14 23:43	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 23:43	1
Methylene Chloride	**2.5**		1.7	0.45	ug/m3			03/18/14 23:43	1
m-Xylene & p-Xylene	**1.4**		0.87	0.52	ug/m3			03/18/14 23:43	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 23:43	1
o-Xylene	**0.55**	**J**	0.87	0.26	ug/m3			03/18/14 23:43	1
Propene	**3.8**	**cn**	0.86	0.13	ug/m3			03/18/14 23:43	1
Styrene	**0.29**	**J**	0.85	0.25	ug/m3			03/18/14 23:43	1
Tetrachloroethene	**1.8**		1.4	0.27	ug/m3			03/18/14 23:43	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 23:43	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 23:43	1
Toluene	**8.0**		0.75	0.45	ug/m3			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 23:43	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 23:43	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/18/14 23:43	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/18/14 23:43*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 00:36	1
1,2,4-Trimethylbenzene	**0.065**	**J**	0.20	0.063	ppb v/v			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,3-Butadiene	**0.066**	**J**	0.40	0.064	ppb v/v			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 00:36	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 00:36	1
2,2,4-Trimethylpentane	**0.095**	**J**	0.50	0.039	ppb v/v			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
2-Butanone (MEK)	**0.35**	**J**	1.0	0.20	ppb v/v			03/19/14 00:36	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 00:36	1
2-Methylbutane	**0.44**	**J**	0.50	0.031	ppb v/v			03/19/14 00:36	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	**0.14**	**J**	0.50	0.045	ppb v/v			03/19/14 00:36	1
Acetone	**2.7**	**J**	5.0	1.4	ppb v/v			03/19/14 00:36	1
Benzene	**0.30**		0.20	0.056	ppb v/v			03/19/14 00:36	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 00:36	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 00:36	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 00:36	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 00:36	1
Chloroform	**0.095**	**J**	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chloromethane	**0.50**		0.50	0.16	ppb v/v			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 00:36	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 00:36	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 00:36	1
Dichlorodifluoromethane	**0.41**		0.20	0.068	ppb v/v			03/19/14 00:36	1
Ethanol	**35**		2.0	2.0	ppb v/v			03/19/14 00:36	1
Ethylbenzene	**0.073**	**J**	0.20	0.068	ppb v/v			03/19/14 00:36	1
Heptane	**0.074**	**J**	0.50	0.047	ppb v/v			03/19/14 00:36	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 00:36	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/19/14 00:36	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 00:36	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/19/14 00:36	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 00:36	1
Methylene Chloride	**0.28**	**J**	0.50	0.13	ppb v/v			03/19/14 00:36	1
m-Xylene & p-Xylene	**0.22**		0.20	0.12	ppb v/v			03/19/14 00:36	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 00:36	1
o-Xylene	**0.086**	**J**	0.20	0.061	ppb v/v			03/19/14 00:36	1
Propene	**0.97**	**cn**	0.50	0.077	ppb v/v			03/19/14 00:36	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 00:36	1
Tetrachloroethene	**0.25**		0.20	0.040	ppb v/v			03/19/14 00:36	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 00:36	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Toluene	**0.42**		0.20	0.12	ppb v/v			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 00:36	1
Trichlorofluoromethane	**0.19**	**J**	0.20	0.024	ppb v/v			03/19/14 00:36	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 00:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 00:36	1
1,2,4-Trimethylbenzene	**0.32**	**J**	0.98	0.31	ug/m3			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 00:36	1
1,3-Butadiene	**0.15**	**J**	0.88	0.14	ug/m3			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 00:36	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 00:36	1
2,2,4-Trimethylpentane	**0.44**	**J**	2.3	0.18	ug/m3			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 00:36	1
2-Butanone (MEK)	**1.0**	**J**	2.9	0.59	ug/m3			03/19/14 00:36	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 00:36	1
2-Methylbutane	**1.3**	**J**	1.5	0.091	ug/m3			03/19/14 00:36	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 00:36	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	**0.56**	**J**	2.0	0.18	ug/m3			03/19/14 00:36	1
Acetone	**6.5**	**J**	12	3.3	ug/m3			03/19/14 00:36	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.95**		0.64	0.18	ug/m3			03/19/14 00:36	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 00:36	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 00:36	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 00:36	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 00:36	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 00:36	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/19/14 00:36	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 00:36	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 00:36	1
Chloroform	**0.47**	**J**	0.98	0.19	ug/m3			03/19/14 00:36	1
Chloromethane	**1.0**		1.0	0.33	ug/m3			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 00:36	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 00:36	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 00:36	1
Dichlorodifluoromethane	**2.0**		0.99	0.34	ug/m3			03/19/14 00:36	1
Ethanol	**66**		3.8	3.8	ug/m3			03/19/14 00:36	1
Ethylbenzene	**0.32**	**J**	0.87	0.30	ug/m3			03/19/14 00:36	1
Heptane	**0.30**	**J**	2.0	0.19	ug/m3			03/19/14 00:36	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 00:36	1
Hexane	**0.51**	**J**	1.8	0.11	ug/m3			03/19/14 00:36	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 00:36	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 00:36	1
Isopropyl alcohol	**2.9**	**J**	4.9	0.23	ug/m3			03/19/14 00:36	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 00:36	1
Methylene Chloride	**0.99**	**J**	1.7	0.45	ug/m3			03/19/14 00:36	1
m-Xylene & p-Xylene	**0.95**		0.87	0.52	ug/m3			03/19/14 00:36	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 00:36	1
o-Xylene	**0.37**	**J**	0.87	0.26	ug/m3			03/19/14 00:36	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/19/14 00:36	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 00:36	1
Tetrachloroethene	**1.7**		1.4	0.27	ug/m3			03/19/14 00:36	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 00:36	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 00:36	1
Toluene	**1.6**		0.75	0.45	ug/m3			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 00:36	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 00:36	1
Trichlorofluoromethane	**1.1**	**J**	1.1	0.13	ug/m3			03/19/14 00:36	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/19/14 00:36*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14
Date Collected: 03/13/14 15:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**J**	0.20	0.031	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 01:31	1
1,2,4-Trimethylbenzene	**0.090**	**J**	0.20	0.063	ppb v/v			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 01:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 01:31	1
2,2,4-Trimethylpentane	**0.12**	**J**	0.50	0.039	ppb v/v			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
2-Butanone (MEK)	**0.21**	**J**	1.0	0.20	ppb v/v			03/19/14 01:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 01:31	1
2-Methylbutane	**0.53**		0.50	0.031	ppb v/v			03/19/14 01:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	**0.49**	**J**	0.50	0.045	ppb v/v			03/19/14 01:31	1
Acetone	**2.4**	**J**	5.0	1.4	ppb v/v			03/19/14 01:31	1
Benzene	**0.31**		0.20	0.056	ppb v/v			03/19/14 01:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 01:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 01:31	1
Carbon tetrachloride	**0.075**	**J**	0.20	0.038	ppb v/v			03/19/14 01:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 01:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 01:31	1
Chloroform	**0.37**		0.20	0.038	ppb v/v			03/19/14 01:31	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 01:31	1
Cyclohexane	**0.048**	**J**	0.50	0.040	ppb v/v			03/19/14 01:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 01:31	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 01:31	1
Ethanol	**36**		2.0	2.0	ppb v/v			03/19/14 01:31	1
Ethylbenzene	**0.10**	**J**	0.20	0.068	ppb v/v			03/19/14 01:31	1
Heptane	**0.086**	**J**	0.50	0.047	ppb v/v			03/19/14 01:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 01:31	1
Hexane	**0.22**	**J**	0.50	0.032	ppb v/v			03/19/14 01:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14
Date Collected: 03/13/14 15:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 01:31	1
Isopropyl alcohol	**4.8**		2.0	0.094	ppb v/v			03/19/14 01:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 01:31	1
Methylene Chloride	**0.42**	**J**	0.50	0.13	ppb v/v			03/19/14 01:31	1
m-Xylene & p-Xylene	**0.30**		0.20	0.12	ppb v/v			03/19/14 01:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 01:31	1
o-Xylene	**0.12**	**J**	0.20	0.061	ppb v/v			03/19/14 01:31	1
Propene	**0.77**	**cn**	0.50	0.077	ppb v/v			03/19/14 01:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 01:31	1
Tetrachloroethene	**0.19**	**J**	0.20	0.040	ppb v/v			03/19/14 01:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 01:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Toluene	**0.62**		0.20	0.12	ppb v/v			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 01:31	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/19/14 01:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 01:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 01:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.53**	**J**	1.5	0.24	ug/m3			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 01:31	1
1,2,4-Trimethylbenzene	**0.44**	**J**	0.98	0.31	ug/m3			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 01:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 01:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 01:31	1
2,2,4-Trimethylpentane	**0.58**	**J**	2.3	0.18	ug/m3			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 01:31	1
2-Butanone (MEK)	**0.61**	**J**	2.9	0.59	ug/m3			03/19/14 01:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 01:31	1
2-Methylbutane	**1.6**		1.5	0.091	ug/m3			03/19/14 01:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 01:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	**2.0**	**J**	2.0	0.18	ug/m3			03/19/14 01:31	1
Acetone	**5.6**	**J**	12	3.3	ug/m3			03/19/14 01:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14
Date Collected: 03/13/14 15:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.98**		0.64	0.18	ug/m3			03/19/14 01:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 01:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 01:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 01:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 01:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 01:31	1
Carbon tetrachloride	**0.47**	**J**	1.3	0.24	ug/m3			03/19/14 01:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 01:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 01:31	1
Chloroform	**1.8**		0.98	0.19	ug/m3			03/19/14 01:31	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 01:31	1
Cyclohexane	**0.17**	**J**	1.7	0.14	ug/m3			03/19/14 01:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 01:31	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 01:31	1
Ethanol	**67**		3.8	3.8	ug/m3			03/19/14 01:31	1
Ethylbenzene	**0.44**	**J**	0.87	0.30	ug/m3			03/19/14 01:31	1
Heptane	**0.35**	**J**	2.0	0.19	ug/m3			03/19/14 01:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 01:31	1
Hexane	**0.77**	**J**	1.8	0.11	ug/m3			03/19/14 01:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 01:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 01:31	1
Isopropyl alcohol	**12**		4.9	0.23	ug/m3			03/19/14 01:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 01:31	1
Methylene Chloride	**1.5**	**J**	1.7	0.45	ug/m3			03/19/14 01:31	1
m-Xylene & p-Xylene	**1.3**		0.87	0.52	ug/m3			03/19/14 01:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 01:31	1
o-Xylene	**0.51**	**J**	0.87	0.26	ug/m3			03/19/14 01:31	1
Propene	**1.3**	**cn**	0.86	0.13	ug/m3			03/19/14 01:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 01:31	1
Tetrachloroethene	**1.3**	**J**	1.4	0.27	ug/m3			03/19/14 01:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 01:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 01:31	1
Toluene	**2.3**		0.75	0.45	ug/m3			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 01:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 01:31	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/19/14 01:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/19/14 01:31*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2
Date Collected: 03/13/14 16:48
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 02:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 02:25	1
1,2,4-Trimethylbenzene	**0.068**	**J**	0.20	0.063	ppb v/v			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 02:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 02:25	1
2,2,4-Trimethylpentane	**0.059**	**J**	0.50	0.039	ppb v/v			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
2-Butanone (MEK)	**1.1**		1.0	0.20	ppb v/v			03/19/14 02:25	1
2-Hexanone	**0.13**	**J**	0.50	0.058	ppb v/v			03/19/14 02:25	1
2-Methylbutane	**0.29**	**J**	0.50	0.031	ppb v/v			03/19/14 02:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	**0.52**		0.50	0.045	ppb v/v			03/19/14 02:25	1
Acetone	**6.0**		5.0	1.4	ppb v/v			03/19/14 02:25	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/19/14 02:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 02:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 02:25	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/19/14 02:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 02:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 02:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 02:25	1
Chloromethane	**0.52**		0.50	0.16	ppb v/v			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 02:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 02:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 02:25	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/19/14 02:25	1
Ethanol	**9.2**		2.0	2.0	ppb v/v			03/19/14 02:25	1
Ethylbenzene	**0.075**	**J**	0.20	0.068	ppb v/v			03/19/14 02:25	1
Heptane	**0.055**	**J**	0.50	0.047	ppb v/v			03/19/14 02:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 02:25	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/19/14 02:25	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2
Date Collected: 03/13/14 16:48
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 02:25	1
Isopropyl alcohol	**0.99**	**J**	2.0	0.094	ppb v/v			03/19/14 02:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 02:25	1
Methylene Chloride	**0.27**	**J**	0.50	0.13	ppb v/v			03/19/14 02:25	1
m-Xylene & p-Xylene	**0.22**		0.20	0.12	ppb v/v			03/19/14 02:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 02:25	1
o-Xylene	**0.087**	**J**	0.20	0.061	ppb v/v			03/19/14 02:25	1
Propene	**0.79**	**cn**	0.50	0.077	ppb v/v			03/19/14 02:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 02:25	1
Tetrachloroethene	**0.33**		0.20	0.040	ppb v/v			03/19/14 02:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 02:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Toluene	**0.39**		0.20	0.12	ppb v/v			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 02:25	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/19/14 02:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 02:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 02:25	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.51**	**J**	1.5	0.24	ug/m3			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 02:25	1
1,2,4-Trimethylbenzene	**0.33**	**J**	0.98	0.31	ug/m3			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 02:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 02:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 02:25	1
2,2,4-Trimethylpentane	**0.28**	**J**	2.3	0.18	ug/m3			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 02:25	1
2-Butanone (MEK)	**3.3**		2.9	0.59	ug/m3			03/19/14 02:25	1
2-Hexanone	**0.52**	**J**	2.0	0.24	ug/m3			03/19/14 02:25	1
2-Methylbutane	**0.85**	**J**	1.5	0.091	ug/m3			03/19/14 02:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 02:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	**2.1**		2.0	0.18	ug/m3			03/19/14 02:25	1
Acetone	**14**		12	3.3	ug/m3			03/19/14 02:25	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2
Date Collected: 03/13/14 16:48
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.77**		0.64	0.18	ug/m3			03/19/14 02:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 02:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 02:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 02:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 02:25	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 02:25	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/19/14 02:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 02:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 02:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 02:25	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 02:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 02:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 02:25	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 02:25	1
Ethanol	**17**		3.8	3.8	ug/m3			03/19/14 02:25	1
Ethylbenzene	**0.33**	**J**	0.87	0.30	ug/m3			03/19/14 02:25	1
Heptane	**0.22**	**J**	2.0	0.19	ug/m3			03/19/14 02:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 02:25	1
Hexane	**0.49**	**J**	1.8	0.11	ug/m3			03/19/14 02:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 02:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 02:25	1
Isopropyl alcohol	**2.4**	**J**	4.9	0.23	ug/m3			03/19/14 02:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 02:25	1
Methylene Chloride	**0.95**	**J**	1.7	0.45	ug/m3			03/19/14 02:25	1
m-Xylene & p-Xylene	**0.96**		0.87	0.52	ug/m3			03/19/14 02:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 02:25	1
o-Xylene	**0.38**	**J**	0.87	0.26	ug/m3			03/19/14 02:25	1
Propene	**1.4**	**cn**	0.86	0.13	ug/m3			03/19/14 02:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 02:25	1
Tetrachloroethene	**2.2**		1.4	0.27	ug/m3			03/19/14 02:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 02:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 02:25	1
Toluene	**1.5**		0.75	0.45	ug/m3			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 02:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 02:25	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/19/14 02:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*60 - 140*		*03/19/14 02:25*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4
Date Collected: 03/13/14 16:49
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 03:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 03:20	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
2-Butanone (MEK)	**0.61**	**J**	1.0	0.20	ppb v/v			03/19/14 03:20	1
2-Hexanone	**0.058**	**J**	0.50	0.058	ppb v/v			03/19/14 03:20	1
2-Methylbutane	**0.27**	**J**	0.50	0.031	ppb v/v			03/19/14 03:20	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	**0.15**	**J**	0.50	0.045	ppb v/v			03/19/14 03:20	1
Acetone	**3.2**	**J**	5.0	1.4	ppb v/v			03/19/14 03:20	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/19/14 03:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 03:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 03:20	1
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/19/14 03:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 03:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 03:20	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 03:20	1
Chloromethane	**0.49**	**J**	0.50	0.16	ppb v/v			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 03:20	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 03:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 03:20	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/19/14 03:20	1
Ethanol	**8.0**		2.0	2.0	ppb v/v			03/19/14 03:20	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 03:20	1
Heptane	**0.057**	**J**	0.50	0.047	ppb v/v			03/19/14 03:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 03:20	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/19/14 03:20	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4
Date Collected: 03/13/14 16:49
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 03:20	1
Isopropyl alcohol	**0.64**	**J**	2.0	0.094	ppb v/v			03/19/14 03:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 03:20	1
Methylene Chloride	**0.23**	**J**	0.50	0.13	ppb v/v			03/19/14 03:20	1
m-Xylene & p-Xylene	**0.14**	**J**	0.20	0.12	ppb v/v			03/19/14 03:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 03:20	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
Propene	**0.60**	**cn**	0.50	0.077	ppb v/v			03/19/14 03:20	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 03:20	1
Tetrachloroethene	**0.55**		0.20	0.040	ppb v/v			03/19/14 03:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 03:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Toluene	**0.29**		0.20	0.12	ppb v/v			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 03:20	1
Trichlorofluoromethane	**0.19**	**J**	0.20	0.024	ppb v/v			03/19/14 03:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 03:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**	**J**	1.5	0.24	ug/m3			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 03:20	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 03:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 03:20	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 03:20	1
2-Butanone (MEK)	**1.8**	**J**	2.9	0.59	ug/m3			03/19/14 03:20	1
2-Hexanone	**0.24**	**J**	2.0	0.24	ug/m3			03/19/14 03:20	1
2-Methylbutane	**0.80**	**J**	1.5	0.091	ug/m3			03/19/14 03:20	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 03:20	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	**0.60**	**J**	2.0	0.18	ug/m3			03/19/14 03:20	1
Acetone	**7.5**	**J**	12	3.3	ug/m3			03/19/14 03:20	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4
Date Collected: 03/13/14 16:49
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.69**		0.64	0.18	ug/m3			03/19/14 03:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 03:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 03:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 03:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 03:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 03:20	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/19/14 03:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 03:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 03:20	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 03:20	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 03:20	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 03:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 03:20	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/19/14 03:20	1
Ethanol	**15**		3.8	3.8	ug/m3			03/19/14 03:20	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 03:20	1
Heptane	**0.23**	**J**	2.0	0.19	ug/m3			03/19/14 03:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 03:20	1
Hexane	**0.40**	**J**	1.8	0.11	ug/m3			03/19/14 03:20	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 03:20	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 03:20	1
Isopropyl alcohol	**1.6**	**J**	4.9	0.23	ug/m3			03/19/14 03:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 03:20	1
Methylene Chloride	**0.81**	**J**	1.7	0.45	ug/m3			03/19/14 03:20	1
m-Xylene & p-Xylene	**0.61**	**J**	0.87	0.52	ug/m3			03/19/14 03:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 03:20	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 03:20	1
Propene	**1.0**	**cn**	0.86	0.13	ug/m3			03/19/14 03:20	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 03:20	1
Tetrachloroethene	**3.7**		1.4	0.27	ug/m3			03/19/14 03:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 03:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 03:20	1
Toluene	**1.1**		0.75	0.45	ug/m3			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 03:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 03:20	1
Trichlorofluoromethane	**1.1**	**J**	1.1	0.13	ug/m3			03/19/14 03:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*60 - 140*		*03/19/14 03:20*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7
Date Collected: 03/12/14 16:00
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 04:13	1
1,2,4-Trimethylbenzene	**0.15**	**J**	0.20	0.063	ppb v/v			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 04:13	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 04:13	1
2,2,4-Trimethylpentane	**0.15**	**J**	0.50	0.039	ppb v/v			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
2-Butanone (MEK)	**0.75**	**J**	1.0	0.20	ppb v/v			03/19/14 04:13	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 04:13	1
2-Methylbutane	**1.1**		0.50	0.031	ppb v/v			03/19/14 04:13	1
2-Methylpentane	**0.25**		0.20	0.20	ppb v/v			03/19/14 04:13	1
4-Ethyltoluene	**0.16**	**J**	0.40	0.066	ppb v/v			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	**0.60**		0.50	0.045	ppb v/v			03/19/14 04:13	1
Acetone	**4.6**	**J**	5.0	1.4	ppb v/v			03/19/14 04:13	1
Benzene	**0.39**		0.20	0.056	ppb v/v			03/19/14 04:13	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 04:13	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 04:13	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 04:13	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 04:13	1
Chloroform	**0.16**	**J**	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chloromethane	**0.57**		0.50	0.16	ppb v/v			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 04:13	1
Cyclohexane	**0.072**	**J**	0.50	0.040	ppb v/v			03/19/14 04:13	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 04:13	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/19/14 04:13	1
Ethanol	**53**		2.0	2.0	ppb v/v			03/19/14 04:13	1
Ethylbenzene	**0.38**		0.20	0.068	ppb v/v			03/19/14 04:13	1
Heptane	**0.19**	**J**	0.50	0.047	ppb v/v			03/19/14 04:13	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 04:13	1
Hexane	**0.29**	**J**	0.50	0.032	ppb v/v			03/19/14 04:13	1

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 04:13	1
Isopropyl alcohol	**2.4**		2.0	0.094	ppb v/v			03/19/14 04:13	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 04:13	1
Methylene Chloride	**3.6**		0.50	0.13	ppb v/v			03/19/14 04:13	1
m-Xylene & p-Xylene	**1.7**		0.20	0.12	ppb v/v			03/19/14 04:13	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 04:13	1
o-Xylene	**0.68**		0.20	0.061	ppb v/v			03/19/14 04:13	1
Propene	**0.97**	**cn**	0.50	0.077	ppb v/v			03/19/14 04:13	1
Styrene	**0.14**	**J**	0.20	0.058	ppb v/v			03/19/14 04:13	1
Tetrachloroethene	**0.22**		0.20	0.040	ppb v/v			03/19/14 04:13	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 04:13	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Toluene	**1.4**		0.20	0.12	ppb v/v			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 04:13	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 04:13	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 04:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.50**	**J**	1.5	0.24	ug/m3			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 04:13	1
1,2,4-Trimethylbenzene	**0.75**	**J**	0.98	0.31	ug/m3			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 04:13	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 04:13	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 04:13	1
2,2,4-Trimethylpentane	**0.68**	**J**	2.3	0.18	ug/m3			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 04:13	1
2-Butanone (MEK)	**2.2**	**J**	2.9	0.59	ug/m3			03/19/14 04:13	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 04:13	1
2-Methylbutane	**3.2**		1.5	0.091	ug/m3			03/19/14 04:13	1
2-Methylpentane	**0.88**		0.70	0.70	ug/m3			03/19/14 04:13	1
4-Ethyltoluene	**0.78**	**J**	2.0	0.32	ug/m3			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	**2.5**		2.0	0.18	ug/m3			03/19/14 04:13	1
Acetone	**11**	**J**	12	3.3	ug/m3			03/19/14 04:13	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7
Date Collected: 03/12/14 16:00
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		0.64	0.18	ug/m3			03/19/14 04:13	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 04:13	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 04:13	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 04:13	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 04:13	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 04:13	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/19/14 04:13	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 04:13	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 04:13	1
Chloroform	**0.78**	**J**	0.98	0.19	ug/m3			03/19/14 04:13	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 04:13	1
Cyclohexane	**0.25**	**J**	1.7	0.14	ug/m3			03/19/14 04:13	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 04:13	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 04:13	1
Ethanol	**99**		3.8	3.8	ug/m3			03/19/14 04:13	1
Ethylbenzene	**1.7**		0.87	0.30	ug/m3			03/19/14 04:13	1
Heptane	**0.79**	**J**	2.0	0.19	ug/m3			03/19/14 04:13	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 04:13	1
Hexane	**1.0**	**J**	1.8	0.11	ug/m3			03/19/14 04:13	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 04:13	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 04:13	1
Isopropyl alcohol	**5.8**		4.9	0.23	ug/m3			03/19/14 04:13	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 04:13	1
Methylene Chloride	**13**		1.7	0.45	ug/m3			03/19/14 04:13	1
m-Xylene & p-Xylene	**7.3**		0.87	0.52	ug/m3			03/19/14 04:13	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 04:13	1
o-Xylene	**3.0**		0.87	0.26	ug/m3			03/19/14 04:13	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/19/14 04:13	1
Styrene	**0.61**	**J**	0.85	0.25	ug/m3			03/19/14 04:13	1
Tetrachloroethene	**1.5**		1.4	0.27	ug/m3			03/19/14 04:13	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 04:13	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 04:13	1
Toluene	**5.3**		0.75	0.45	ug/m3			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 04:13	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 04:13	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 04:13	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/19/14 04:13*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7
Date Collected: 03/12/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 05:07	1
1,2,4-Trimethylbenzene	**0.16**	**J**	0.20	0.063	ppb v/v			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 05:07	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 05:07	1
2,2,4-Trimethylpentane	**0.14**	**J**	0.50	0.039	ppb v/v			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
2-Butanone (MEK)	**0.62**	**J**	1.0	0.20	ppb v/v			03/19/14 05:07	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 05:07	1
2-Methylbutane	**0.92**		0.50	0.031	ppb v/v			03/19/14 05:07	1
2-Methylpentane	**0.23**		0.20	0.20	ppb v/v			03/19/14 05:07	1
4-Ethyltoluene	**0.13**	**J**	0.40	0.066	ppb v/v			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	**0.21**	**J**	0.50	0.045	ppb v/v			03/19/14 05:07	1
Acetone	**3.8**	**J**	5.0	1.4	ppb v/v			03/19/14 05:07	1
Benzene	**0.36**		0.20	0.056	ppb v/v			03/19/14 05:07	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 05:07	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 05:07	1
Carbon tetrachloride	**0.065**	**J**	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 05:07	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 05:07	1
Chloroform	**0.056**	**J**	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chloromethane	**0.58**		0.50	0.16	ppb v/v			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 05:07	1
Cyclohexane	**0.068**	**J**	0.50	0.040	ppb v/v			03/19/14 05:07	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 05:07	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/19/14 05:07	1
Ethanol	**23**		2.0	2.0	ppb v/v			03/19/14 05:07	1
Ethylbenzene	**0.23**		0.20	0.068	ppb v/v			03/19/14 05:07	1
Heptane	**0.15**	**J**	0.50	0.047	ppb v/v			03/19/14 05:07	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 05:07	1
Hexane	**0.36**	**J**	0.50	0.032	ppb v/v			03/19/14 05:07	1

Client Sample ID: PCV-IA3-B7
Lab Sample ID: 140-1063-9
Date Collected: 03/12/14 16:10
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 05:07	1
Isopropyl alcohol	**1.4**	**J**	2.0	0.094	ppb v/v			03/19/14 05:07	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 05:07	1
Methylene Chloride	**0.82**		0.50	0.13	ppb v/v			03/19/14 05:07	1
m-Xylene & p-Xylene	**0.94**		0.20	0.12	ppb v/v			03/19/14 05:07	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 05:07	1
o-Xylene	**0.38**		0.20	0.061	ppb v/v			03/19/14 05:07	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/19/14 05:07	1
Styrene	**0.073**	**J**	0.20	0.058	ppb v/v			03/19/14 05:07	1
Tetrachloroethene	**0.14**	**J**	0.20	0.040	ppb v/v			03/19/14 05:07	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 05:07	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Toluene	**1.1**		0.20	0.12	ppb v/v			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 05:07	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 05:07	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 05:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.55**	**J**	1.5	0.24	ug/m3			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 05:07	1
1,2,4-Trimethylbenzene	**0.81**	**J**	0.98	0.31	ug/m3			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 05:07	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 05:07	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 05:07	1
2,2,4-Trimethylpentane	**0.63**	**J**	2.3	0.18	ug/m3			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 05:07	1
2-Butanone (MEK)	**1.8**	**J**	2.9	0.59	ug/m3			03/19/14 05:07	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 05:07	1
2-Methylbutane	**2.7**		1.5	0.091	ug/m3			03/19/14 05:07	1
2-Methylpentane	**0.83**		0.70	0.70	ug/m3			03/19/14 05:07	1
4-Ethyltoluene	**0.62**	**J**	2.0	0.32	ug/m3			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	**0.86**	**J**	2.0	0.18	ug/m3			03/19/14 05:07	1
Acetone	**8.9**	**J**	12	3.3	ug/m3			03/19/14 05:07	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7
Date Collected: 03/12/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		0.64	0.18	ug/m3			03/19/14 05:07	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 05:07	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 05:07	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 05:07	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 05:07	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 05:07	1
Carbon tetrachloride	**0.41**	**J**	1.3	0.24	ug/m3			03/19/14 05:07	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 05:07	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 05:07	1
Chloroform	**0.27**	**J**	0.98	0.19	ug/m3			03/19/14 05:07	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 05:07	1
Cyclohexane	**0.23**	**J**	1.7	0.14	ug/m3			03/19/14 05:07	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 05:07	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 05:07	1
Ethanol	**44**		3.8	3.8	ug/m3			03/19/14 05:07	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/19/14 05:07	1
Heptane	**0.60**	**J**	2.0	0.19	ug/m3			03/19/14 05:07	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 05:07	1
Hexane	**1.3**	**J**	1.8	0.11	ug/m3			03/19/14 05:07	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 05:07	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 05:07	1
Isopropyl alcohol	**3.5**	**J**	4.9	0.23	ug/m3			03/19/14 05:07	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 05:07	1
Methylene Chloride	**2.8**		1.7	0.45	ug/m3			03/19/14 05:07	1
m-Xylene & p-Xylene	**4.1**		0.87	0.52	ug/m3			03/19/14 05:07	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 05:07	1
o-Xylene	**1.6**		0.87	0.26	ug/m3			03/19/14 05:07	1
Propene	**1.8**	**cn**	0.86	0.13	ug/m3			03/19/14 05:07	1
Styrene	**0.31**	**J**	0.85	0.25	ug/m3			03/19/14 05:07	1
Tetrachloroethene	**0.97**	**J**	1.4	0.27	ug/m3			03/19/14 05:07	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 05:07	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 05:07	1
Toluene	**4.2**		0.75	0.45	ug/m3			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 05:07	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 05:07	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 05:07	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/19/14 05:07*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:01	1
1,2,4-Trimethylbenzene	**0.16**	**J**	0.20	0.063	ppb v/v			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,4-Dichlorobenzene	**0.096**	**J**	0.20	0.064	ppb v/v			03/19/14 06:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:01	1
2,2,4-Trimethylpentane	**0.17**	**J**	0.50	0.039	ppb v/v			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
2-Butanone (MEK)	**1.1**		1.0	0.20	ppb v/v			03/19/14 06:01	1
2-Hexanone	**0.099**	**J**	0.50	0.058	ppb v/v			03/19/14 06:01	1
2-Methylbutane	**2.5**		0.50	0.031	ppb v/v			03/19/14 06:01	1
2-Methylpentane	**0.40**		0.20	0.20	ppb v/v			03/19/14 06:01	1
4-Ethyltoluene	**0.17**	**J**	0.40	0.066	ppb v/v			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	**0.34**	**J**	0.50	0.045	ppb v/v			03/19/14 06:01	1
Acetone	**8.5**		5.0	1.4	ppb v/v			03/19/14 06:01	1
Benzene	**0.39**		0.20	0.056	ppb v/v			03/19/14 06:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 06:01	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:01	1
Chloroform	**0.14**	**J**	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chloromethane	**0.57**		0.50	0.16	ppb v/v			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:01	1
Cyclohexane	**0.13**	**J**	0.50	0.040	ppb v/v			03/19/14 06:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:01	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 06:01	1
Ethanol	**160**		2.0	2.0	ppb v/v			03/19/14 06:01	1
Ethylbenzene	**0.21**		0.20	0.068	ppb v/v			03/19/14 06:01	1
Heptane	**0.19**	**J**	0.50	0.047	ppb v/v			03/19/14 06:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:01	1
Hexane	**0.50**		0.50	0.032	ppb v/v			03/19/14 06:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:01	1
Isopropyl alcohol	**8.7**		2.0	0.094	ppb v/v			03/19/14 06:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:01	1
Methylene Chloride	**0.60**		0.50	0.13	ppb v/v			03/19/14 06:01	1
m-Xylene & p-Xylene	**0.79**		0.20	0.12	ppb v/v			03/19/14 06:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:01	1
o-Xylene	**0.32**		0.20	0.061	ppb v/v			03/19/14 06:01	1
Propene	**5.1**	**cn**	0.50	0.077	ppb v/v			03/19/14 06:01	1
Styrene	**0.070**	**J**	0.20	0.058	ppb v/v			03/19/14 06:01	1
Tetrachloroethene	**0.20**		0.20	0.040	ppb v/v			03/19/14 06:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Toluene	**1.2**		0.20	0.12	ppb v/v			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:01	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 06:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.50**	**J**	1.5	0.24	ug/m3			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:01	1
1,2,4-Trimethylbenzene	**0.79**	**J**	0.98	0.31	ug/m3			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:01	1
1,4-Dichlorobenzene	**0.58**	**J**	1.2	0.38	ug/m3			03/19/14 06:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:01	1
2,2,4-Trimethylpentane	**0.77**	**J**	2.3	0.18	ug/m3			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:01	1
2-Butanone (MEK)	**3.3**		2.9	0.59	ug/m3			03/19/14 06:01	1
2-Hexanone	**0.41**	**J**	2.0	0.24	ug/m3			03/19/14 06:01	1
2-Methylbutane	**7.3**		1.5	0.091	ug/m3			03/19/14 06:01	1
2-Methylpentane	**1.4**		0.70	0.70	ug/m3			03/19/14 06:01	1
4-Ethyltoluene	**0.85**	**J**	2.0	0.32	ug/m3			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	**1.4**	**J**	2.0	0.18	ug/m3			03/19/14 06:01	1
Acetone	**20**		12	3.3	ug/m3			03/19/14 06:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		0.64	0.18	ug/m3			03/19/14 06:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 06:01	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/19/14 06:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:01	1
Chloroform	**0.67**	**J**	0.98	0.19	ug/m3			03/19/14 06:01	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:01	1
Cyclohexane	**0.43**	**J**	1.7	0.14	ug/m3			03/19/14 06:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:01	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 06:01	1
Ethanol	**290**		3.8	3.8	ug/m3			03/19/14 06:01	1
Ethylbenzene	**0.90**		0.87	0.30	ug/m3			03/19/14 06:01	1
Heptane	**0.77**	**J**	2.0	0.19	ug/m3			03/19/14 06:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:01	1
Hexane	**1.8**		1.8	0.11	ug/m3			03/19/14 06:01	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:01	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:01	1
Isopropyl alcohol	**21**		4.9	0.23	ug/m3			03/19/14 06:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:01	1
Methylene Chloride	**2.1**		1.7	0.45	ug/m3			03/19/14 06:01	1
m-Xylene & p-Xylene	**3.4**		0.87	0.52	ug/m3			03/19/14 06:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:01	1
o-Xylene	**1.4**		0.87	0.26	ug/m3			03/19/14 06:01	1
Propene	**8.8**	**cn**	0.86	0.13	ug/m3			03/19/14 06:01	1
Styrene	**0.30**	**J**	0.85	0.25	ug/m3			03/19/14 06:01	1
Tetrachloroethene	**1.3**		1.4	0.27	ug/m3			03/19/14 06:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:01	1
Toluene	**4.5**		0.75	0.45	ug/m3			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:01	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 06:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/19/14 06:01*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:56	1
1,2,4-Trimethylbenzene	**0.13**	**J**	0.20	0.063	ppb v/v			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,4-Dichlorobenzene	**0.10**	**J**	0.20	0.064	ppb v/v			03/19/14 06:56	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:56	1
2,2,4-Trimethylpentane	**0.15**	**J**	0.50	0.039	ppb v/v			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
2-Butanone (MEK)	**0.83**	**J**	1.0	0.20	ppb v/v			03/19/14 06:56	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 06:56	1
2-Methylbutane	**1.5**		0.50	0.031	ppb v/v			03/19/14 06:56	1
2-Methylpentane	**0.29**		0.20	0.20	ppb v/v			03/19/14 06:56	1
4-Ethyltoluene	**0.099**	**J**	0.40	0.066	ppb v/v			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	**0.46**	**J**	0.50	0.045	ppb v/v			03/19/14 06:56	1
Acetone	**5.5**		5.0	1.4	ppb v/v			03/19/14 06:56	1
Benzene	**0.37**		0.20	0.056	ppb v/v			03/19/14 06:56	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:56	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
Carbon disulfide	**0.042**	**J**	0.50	0.031	ppb v/v			03/19/14 06:56	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:56	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:56	1
Chloroform	**0.077**	**J**	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chloromethane	**0.64**		0.50	0.16	ppb v/v			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:56	1
Cyclohexane	**0.090**	**J**	0.50	0.040	ppb v/v			03/19/14 06:56	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:56	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/19/14 06:56	1
Ethanol	**56**		2.0	2.0	ppb v/v			03/19/14 06:56	1
Ethylbenzene	**0.18**	**J**	0.20	0.068	ppb v/v			03/19/14 06:56	1
Heptane	**0.18**	**J**	0.50	0.047	ppb v/v			03/19/14 06:56	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:56	1
Hexane	**0.31**	**J**	0.50	0.032	ppb v/v			03/19/14 06:56	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:56	1
Isopropyl alcohol	**5.2**		2.0	0.094	ppb v/v			03/19/14 06:56	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:56	1
Methylene Chloride	**0.47**	**J**	0.50	0.13	ppb v/v			03/19/14 06:56	1
m-Xylene & p-Xylene	**0.61**		0.20	0.12	ppb v/v			03/19/14 06:56	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:56	1
o-Xylene	**0.24**		0.20	0.061	ppb v/v			03/19/14 06:56	1
Propene	**1.9**	**cn**	0.50	0.077	ppb v/v			03/19/14 06:56	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 06:56	1
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/19/14 06:56	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:56	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Toluene	**1.1**		0.20	0.12	ppb v/v			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:56	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 06:56	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:56	1
1,2,4-Trimethylbenzene	**0.64**	**J**	0.98	0.31	ug/m3			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:56	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:56	1
1,4-Dichlorobenzene	**0.61**	**J**	1.2	0.38	ug/m3			03/19/14 06:56	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:56	1
2,2,4-Trimethylpentane	**0.72**	**J**	2.3	0.18	ug/m3			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:56	1
2-Butanone (MEK)	**2.5**	**J**	2.9	0.59	ug/m3			03/19/14 06:56	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 06:56	1
2-Methylbutane	**4.4**		1.5	0.091	ug/m3			03/19/14 06:56	1
2-Methylpentane	**1.0**		0.70	0.70	ug/m3			03/19/14 06:56	1
4-Ethyltoluene	**0.49**	**J**	2.0	0.32	ug/m3			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	**1.9**	**J**	2.0	0.18	ug/m3			03/19/14 06:56	1
Acetone	**13**		12	3.3	ug/m3			03/19/14 06:56	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		0.64	0.18	ug/m3			03/19/14 06:56	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:56	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:56	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:56	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:56	1
Carbon disulfide	**0.13**	**J**	1.6	0.097	ug/m3			03/19/14 06:56	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/19/14 06:56	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:56	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:56	1
Chloroform	**0.38**	**J**	0.98	0.19	ug/m3			03/19/14 06:56	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:56	1
Cyclohexane	**0.31**	**J**	1.7	0.14	ug/m3			03/19/14 06:56	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:56	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 06:56	1
Ethanol	**110**		3.8	3.8	ug/m3			03/19/14 06:56	1
Ethylbenzene	**0.77**	**J**	0.87	0.30	ug/m3			03/19/14 06:56	1
Heptane	**0.73**	**J**	2.0	0.19	ug/m3			03/19/14 06:56	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:56	1
Hexane	**1.1**	**J**	1.8	0.11	ug/m3			03/19/14 06:56	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:56	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:56	1
Isopropyl alcohol	**13**		4.9	0.23	ug/m3			03/19/14 06:56	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:56	1
Methylene Chloride	**1.6**	**J**	1.7	0.45	ug/m3			03/19/14 06:56	1
m-Xylene & p-Xylene	**2.7**		0.87	0.52	ug/m3			03/19/14 06:56	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:56	1
o-Xylene	**1.0**		0.87	0.26	ug/m3			03/19/14 06:56	1
Propene	**3.2**	**cn**	0.86	0.13	ug/m3			03/19/14 06:56	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 06:56	1
Tetrachloroethene	**1.0**	**J**	1.4	0.27	ug/m3			03/19/14 06:56	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:56	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:56	1
Toluene	**4.3**		0.75	0.45	ug/m3			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:56	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:56	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 06:56	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/19/14 06:56*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11
Date Collected: 03/12/14 16:30
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	**0.21**		0.20	0.063	ppb v/v			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,4-Dichlorobenzene	**0.14**	**J**	0.20	0.064	ppb v/v			03/19/14 07:51	1.64
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	**0.16**	**J**	0.50	0.039	ppb v/v			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
2-Butanone (MEK)	**1.6**		1.0	0.20	ppb v/v			03/19/14 07:51	1.64
2-Hexanone	**0.088**	**J**	0.50	0.058	ppb v/v			03/19/14 07:51	1.64
2-Methylbutane	**1.4**		0.50	0.031	ppb v/v			03/19/14 07:51	1.64
2-Methylpentane	**0.33**		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
4-Ethyltoluene	**0.31**	**J**	0.40	0.066	ppb v/v			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	**0.56**		0.50	0.045	ppb v/v			03/19/14 07:51	1.64
Acetone	**7.1**		5.0	1.4	ppb v/v			03/19/14 07:51	1.64
Benzene	**0.40**		0.20	0.056	ppb v/v			03/19/14 07:51	1.64
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 07:51	1.64
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
Carbon disulfide	**0.037**	**J**	0.50	0.031	ppb v/v			03/19/14 07:51	1.64
Carbon tetrachloride	**0.069**	**J**	0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 07:51	1.64
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 07:51	1.64
Chloroform	**0.40**		0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chloromethane	**0.59**		0.50	0.16	ppb v/v			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 07:51	1.64
Cyclohexane	**0.10**	**J**	0.50	0.040	ppb v/v			03/19/14 07:51	1.64
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 07:51	1.64
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Ethanol	**110**		2.0	2.0	ppb v/v			03/19/14 07:51	1.64
Ethylbenzene	**0.21**		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Heptane	**0.24**	**J**	0.50	0.047	ppb v/v			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 07:51	1.64
Hexane	**0.42**	**J**	0.50	0.032	ppb v/v			03/19/14 07:51	1.64

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11
Date Collected: 03/12/14 16:30
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Indene	ND		0.40	0.40	ppb v/v			03/19/14 07:51	1.64
Isopropyl alcohol	**8.9**		2.0	0.094	ppb v/v			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 07:51	1.64
Methylene Chloride	**0.51**		0.50	0.13	ppb v/v			03/19/14 07:51	1.64
m-Xylene & p-Xylene	**0.79**		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 07:51	1.64
o-Xylene	**0.31**		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
Propene	**1.7**	**cn**	0.50	0.077	ppb v/v			03/19/14 07:51	1.64
Styrene	**0.12**	**J**	0.20	0.058	ppb v/v			03/19/14 07:51	1.64
Tetrachloroethene	**0.20**		0.20	0.040	ppb v/v			03/19/14 07:51	1.64
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 07:51	1.64
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Toluene	**1.3**		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 07:51	1.64
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/19/14 07:51	1.64
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 07:51	1.64

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	**1.0**		0.98	0.31	ug/m3			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 07:51	1.64
1,4-Dichlorobenzene	**0.86**	**J**	1.2	0.38	ug/m3			03/19/14 07:51	1.64
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	**0.77**	**J**	2.3	0.18	ug/m3			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 07:51	1.64
2-Butanone (MEK)	**4.6**		2.9	0.59	ug/m3			03/19/14 07:51	1.64
2-Hexanone	**0.36**	**J**	2.0	0.24	ug/m3			03/19/14 07:51	1.64
2-Methylbutane	**4.1**		1.5	0.091	ug/m3			03/19/14 07:51	1.64
2-Methylpentane	**1.2**		0.70	0.70	ug/m3			03/19/14 07:51	1.64
4-Ethyltoluene	**1.5**	**J**	2.0	0.32	ug/m3			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	**2.3**		2.0	0.18	ug/m3			03/19/14 07:51	1.64
Acetone	**17**		12	3.3	ug/m3			03/19/14 07:51	1.64

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		0.64	0.18	ug/m3			03/19/14 07:51	1.64
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 07:51	1.64
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 07:51	1.64
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 07:51	1.64
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 07:51	1.64
Carbon disulfide	**0.12**	**J**	1.6	0.097	ug/m3			03/19/14 07:51	1.64
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/19/14 07:51	1.64
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 07:51	1.64
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 07:51	1.64
Chloroform	**2.0**		0.98	0.19	ug/m3			03/19/14 07:51	1.64
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 07:51	1.64
Cyclohexane	**0.36**	**J**	1.7	0.14	ug/m3			03/19/14 07:51	1.64
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 07:51	1.64
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 07:51	1.64
Ethanol	**210**		3.8	3.8	ug/m3			03/19/14 07:51	1.64
Ethylbenzene	**0.93**		0.87	0.30	ug/m3			03/19/14 07:51	1.64
Heptane	**0.97**	**J**	2.0	0.19	ug/m3			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 07:51	1.64
Hexane	**1.5**	**J**	1.8	0.11	ug/m3			03/19/14 07:51	1.64
Indane	ND		0.97	0.97	ug/m3			03/19/14 07:51	1.64
Indene	ND		1.9	1.9	ug/m3			03/19/14 07:51	1.64
Isopropyl alcohol	**22**		4.9	0.23	ug/m3			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 07:51	1.64
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/19/14 07:51	1.64
m-Xylene & p-Xylene	**3.4**		0.87	0.52	ug/m3			03/19/14 07:51	1.64
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 07:51	1.64
o-Xylene	**1.4**		0.87	0.26	ug/m3			03/19/14 07:51	1.64
Propene	**3.0**	**cn**	0.86	0.13	ug/m3			03/19/14 07:51	1.64
Styrene	**0.52**	**J**	0.85	0.25	ug/m3			03/19/14 07:51	1.64
Tetrachloroethene	**1.4**		1.4	0.27	ug/m3			03/19/14 07:51	1.64
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 07:51	1.64
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 07:51	1.64
Toluene	**5.0**		0.75	0.45	ug/m3			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 07:51	1.64
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 07:51	1.64
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 07:51	1.64
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 07:51	1.64

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/19/14 07:51*	*1.64*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14
Date Collected: 03/13/14 16:04
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**J**	0.20	0.031	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 08:44	1
1,2,4-Trimethylbenzene	**0.19**	**J**	0.20	0.063	ppb v/v			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 08:44	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 08:44	1
2,2,4-Trimethylpentane	**0.51**		0.50	0.039	ppb v/v			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
2-Butanone (MEK)	**0.46**	**J**	1.0	0.20	ppb v/v			03/19/14 08:44	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 08:44	1
2-Methylbutane	**2.2**		0.50	0.031	ppb v/v			03/19/14 08:44	1
2-Methylpentane	**0.56**		0.20	0.20	ppb v/v			03/19/14 08:44	1
4-Ethyltoluene	**0.092**	**J**	0.40	0.066	ppb v/v			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	**0.32**	**J**	0.50	0.045	ppb v/v			03/19/14 08:44	1
Acetone	**3.0**	**J**	5.0	1.4	ppb v/v			03/19/14 08:44	1
Benzene	**0.90**		0.20	0.056	ppb v/v			03/19/14 08:44	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 08:44	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 08:44	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 08:44	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 08:44	1
Chloroform	**0.092**	**J**	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chloromethane	**0.49**	**J**	0.50	0.16	ppb v/v			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 08:44	1
Cyclohexane	**0.17**	**J**	0.50	0.040	ppb v/v			03/19/14 08:44	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 08:44	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/19/14 08:44	1
Ethanol	**68**		2.0	2.0	ppb v/v			03/19/14 08:44	1
Ethylbenzene	**0.23**		0.20	0.068	ppb v/v			03/19/14 08:44	1
Heptane	**0.26**	**J**	0.50	0.047	ppb v/v			03/19/14 08:44	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 08:44	1
Hexane	**0.47**	**J**	0.50	0.032	ppb v/v			03/19/14 08:44	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14
Date Collected: 03/13/14 16:04
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 08:44	1
Isopropyl alcohol	**5.2**		2.0	0.094	ppb v/v			03/19/14 08:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 08:44	1
Methylene Chloride	**0.37**	**J**	0.50	0.13	ppb v/v			03/19/14 08:44	1
m-Xylene & p-Xylene	**0.73**		0.20	0.12	ppb v/v			03/19/14 08:44	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 08:44	1
o-Xylene	**0.28**		0.20	0.061	ppb v/v			03/19/14 08:44	1
Propene	**2.3**	**cn**	0.50	0.077	ppb v/v			03/19/14 08:44	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 08:44	1
Tetrachloroethene	**0.31**		0.20	0.040	ppb v/v			03/19/14 08:44	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 08:44	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Toluene	**1.6**		0.20	0.12	ppb v/v			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 08:44	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/19/14 08:44	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 08:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 08:44	1
1,2,4-Trimethylbenzene	**0.92**	**J**	0.98	0.31	ug/m3			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 08:44	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 08:44	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 08:44	1
2,2,4-Trimethylpentane	**2.4**		2.3	0.18	ug/m3			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 08:44	1
2-Butanone (MEK)	**1.3**	**J**	2.9	0.59	ug/m3			03/19/14 08:44	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 08:44	1
2-Methylbutane	**6.4**		1.5	0.091	ug/m3			03/19/14 08:44	1
2-Methylpentane	**2.0**		0.70	0.70	ug/m3			03/19/14 08:44	1
4-Ethyltoluene	**0.45**	**J**	2.0	0.32	ug/m3			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	**1.3**	**J**	2.0	0.18	ug/m3			03/19/14 08:44	1
Acetone	**7.2**	**J**	12	3.3	ug/m3			03/19/14 08:44	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14
Date Collected: 03/13/14 16:04
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.9**		0.64	0.18	ug/m3			03/19/14 08:44	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 08:44	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 08:44	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 08:44	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 08:44	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 08:44	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/19/14 08:44	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 08:44	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 08:44	1
Chloroform	**0.45**	**J**	0.98	0.19	ug/m3			03/19/14 08:44	1
Chloromethane	**1.0**	**J**	1.0	0.33	ug/m3			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 08:44	1
Cyclohexane	**0.60**	**J**	1.7	0.14	ug/m3			03/19/14 08:44	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 08:44	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/19/14 08:44	1
Ethanol	**130**		3.8	3.8	ug/m3			03/19/14 08:44	1
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/19/14 08:44	1
Heptane	**1.1**	**J**	2.0	0.19	ug/m3			03/19/14 08:44	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 08:44	1
Hexane	**1.6**	**J**	1.8	0.11	ug/m3			03/19/14 08:44	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 08:44	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 08:44	1
Isopropyl alcohol	**13**		4.9	0.23	ug/m3			03/19/14 08:44	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 08:44	1
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/19/14 08:44	1
m-Xylene & p-Xylene	**3.2**		0.87	0.52	ug/m3			03/19/14 08:44	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 08:44	1
o-Xylene	**1.2**		0.87	0.26	ug/m3			03/19/14 08:44	1
Propene	**3.9**	**cn**	0.86	0.13	ug/m3			03/19/14 08:44	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 08:44	1
Tetrachloroethene	**2.1**		1.4	0.27	ug/m3			03/19/14 08:44	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 08:44	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 08:44	1
Toluene	**5.9**		0.75	0.45	ug/m3			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 08:44	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 08:44	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/19/14 08:44	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/19/14 08:44*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14
Date Collected: 03/13/14 16:53
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.072**	**J**	0.20	0.031	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 19:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 19:12	1
2,2,4-Trimethylpentane	**0.062**	**J**	0.50	0.039	ppb v/v			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
2-Butanone (MEK)	**0.24**	**J**	1.0	0.20	ppb v/v			03/18/14 19:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 19:12	1
2-Methylbutane	**0.37**	**J**	0.50	0.031	ppb v/v			03/18/14 19:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	**0.29**	**J**	0.50	0.045	ppb v/v			03/18/14 19:12	1
Acetone	**2.4**	**J**	5.0	1.4	ppb v/v			03/18/14 19:12	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/18/14 19:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 19:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 19:12	1
Carbon tetrachloride	**0.070**	**J**	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 19:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 19:12	1
Chloroform	**0.052**	**J**	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chloromethane	**0.51**		0.50	0.16	ppb v/v			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 19:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 19:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 19:12	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/18/14 19:12	1
Ethanol	**53**		2.0	2.0	ppb v/v			03/18/14 19:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 19:12	1
Heptane	**0.078**	**J**	0.50	0.047	ppb v/v			03/18/14 19:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 19:12	1
Hexane	**0.17**	**J**	0.50	0.032	ppb v/v			03/18/14 19:12	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14
Date Collected: 03/13/14 16:53
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 19:12	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/18/14 19:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 19:12	1
Methylene Chloride	**0.37**	**J**	0.50	0.13	ppb v/v			03/18/14 19:12	1
m-Xylene & p-Xylene	**0.17**	**J**	0.20	0.12	ppb v/v			03/18/14 19:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 19:12	1
o-Xylene	**0.070**	**J**	0.20	0.061	ppb v/v			03/18/14 19:12	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 19:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 19:12	1
Tetrachloroethene	**0.53**		0.20	0.040	ppb v/v			03/18/14 19:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 19:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Toluene	**0.50**		0.20	0.12	ppb v/v			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 19:12	1
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/18/14 19:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 19:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 19:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.55**	**J**	1.5	0.24	ug/m3			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 19:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 19:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 19:12	1
2,2,4-Trimethylpentane	**0.29**	**J**	2.3	0.18	ug/m3			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 19:12	1
2-Butanone (MEK)	**0.70**	**J**	2.9	0.59	ug/m3			03/18/14 19:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 19:12	1
2-Methylbutane	**1.1**	**J**	1.5	0.091	ug/m3			03/18/14 19:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 19:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	**1.2**	**J**	2.0	0.18	ug/m3			03/18/14 19:12	1
Acetone	**5.8**	**J**	12	3.3	ug/m3			03/18/14 19:12	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14
Date Collected: 03/13/14 16:53
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.78**		0.64	0.18	ug/m3			03/18/14 19:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 19:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 19:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 19:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 19:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 19:12	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/18/14 19:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 19:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 19:12	1
Chloroform	**0.25**	**J**	0.98	0.19	ug/m3			03/18/14 19:12	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 19:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 19:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 19:12	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 19:12	1
Ethanol	**100**		3.8	3.8	ug/m3			03/18/14 19:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 19:12	1
Heptane	**0.32**	**J**	2.0	0.19	ug/m3			03/18/14 19:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 19:12	1
Hexane	**0.61**	**J**	1.8	0.11	ug/m3			03/18/14 19:12	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 19:12	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 19:12	1
Isopropyl alcohol	**3.0**	**J**	4.9	0.23	ug/m3			03/18/14 19:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 19:12	1
Methylene Chloride	**1.3**	**J**	1.7	0.45	ug/m3			03/18/14 19:12	1
m-Xylene & p-Xylene	**0.75**	**J**	0.87	0.52	ug/m3			03/18/14 19:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 19:12	1
o-Xylene	**0.30**	**J**	0.87	0.26	ug/m3			03/18/14 19:12	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 19:12	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 19:12	1
Tetrachloroethene	**3.6**		1.4	0.27	ug/m3			03/18/14 19:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 19:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 19:12	1
Toluene	**1.9**		0.75	0.45	ug/m3			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 19:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 19:12	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/18/14 19:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/18/14 19:12*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14
Date Collected: 03/13/14 16:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	**0.14**	**J**	0.20	0.063	ppb v/v			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,4-Dichlorobenzene	**0.22**		0.20	0.064	ppb v/v			03/18/14 20:05	1.84
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	**0.073**	**J**	0.50	0.039	ppb v/v			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
2-Butanone (MEK)	**2.8**		1.0	0.20	ppb v/v			03/18/14 20:05	1.84
2-Hexanone	**0.19**	**J**	0.50	0.058	ppb v/v			03/18/14 20:05	1.84
2-Methylbutane	**0.33**	**J**	0.50	0.031	ppb v/v			03/18/14 20:05	1.84
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
4-Ethyltoluene	**0.082**	**J**	0.40	0.066	ppb v/v			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	**1.1**		0.50	0.045	ppb v/v			03/18/14 20:05	1.84
Acetone	**16**		5.0	1.4	ppb v/v			03/18/14 20:05	1.84
Benzene	**0.25**		0.20	0.056	ppb v/v			03/18/14 20:05	1.84
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 20:05	1.84
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 20:05	1.84
Carbon tetrachloride	**0.074**	**J**	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 20:05	1.84
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 20:05	1.84
Chloroform	**0.12**	**J**	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chloromethane	**0.62**		0.50	0.16	ppb v/v			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 20:05	1.84
Cyclohexane	**0.049**	**J**	0.50	0.040	ppb v/v			03/18/14 20:05	1.84
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 20:05	1.84
Dichlorodifluoromethane	**0.47**		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Ethanol	**180**		2.0	2.0	ppb v/v			03/18/14 20:05	1.84
Ethylbenzene	**0.23**		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Heptane	**0.27**	**J**	0.50	0.047	ppb v/v			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 20:05	1.84
Hexane	**0.18**	**J**	0.50	0.032	ppb v/v			03/18/14 20:05	1.84

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14
Date Collected: 03/13/14 16:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Indene	ND		0.40	0.40	ppb v/v			03/18/14 20:05	1.84
Isopropyl alcohol	**3.0**		2.0	0.094	ppb v/v			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 20:05	1.84
Methylene Chloride	**0.32**	**J**	0.50	0.13	ppb v/v			03/18/14 20:05	1.84
m-Xylene & p-Xylene	**0.82**		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 20:05	1.84
o-Xylene	**0.32**		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
Propene	**3.1**	**cn**	0.50	0.077	ppb v/v			03/18/14 20:05	1.84
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 20:05	1.84
Tetrachloroethene	**0.35**		0.20	0.040	ppb v/v			03/18/14 20:05	1.84
Tetrahydrofuran	**0.074**	**J**	1.0	0.063	ppb v/v			03/18/14 20:05	1.84
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Toluene	**1.0**		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 20:05	1.84
Trichlorofluoromethane	**0.19**	**J**	0.20	0.024	ppb v/v			03/18/14 20:05	1.84
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 20:05	1.84

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.50**	**J**	1.5	0.24	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	**0.70**	**J**	0.98	0.31	ug/m3			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 20:05	1.84
1,4-Dichlorobenzene	**1.3**		1.2	0.38	ug/m3			03/18/14 20:05	1.84
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	**0.34**	**J**	2.3	0.18	ug/m3			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 20:05	1.84
2-Butanone (MEK)	**8.1**		2.9	0.59	ug/m3			03/18/14 20:05	1.84
2-Hexanone	**0.79**	**J**	2.0	0.24	ug/m3			03/18/14 20:05	1.84
2-Methylbutane	**0.96**	**J**	1.5	0.091	ug/m3			03/18/14 20:05	1.84
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 20:05	1.84
4-Ethyltoluene	**0.40**	**J**	2.0	0.32	ug/m3			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	**4.3**		2.0	0.18	ug/m3			03/18/14 20:05	1.84
Acetone	**38**		12	3.3	ug/m3			03/18/14 20:05	1.84

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14
Date Collected: 03/13/14 16:52
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.79**		0.64	0.18	ug/m3			03/18/14 20:05	1.84
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 20:05	1.84
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 20:05	1.84
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 20:05	1.84
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 20:05	1.84
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 20:05	1.84
Carbon tetrachloride	**0.46**	**J**	1.3	0.24	ug/m3			03/18/14 20:05	1.84
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 20:05	1.84
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 20:05	1.84
Chloroform	**0.57**	**J**	0.98	0.19	ug/m3			03/18/14 20:05	1.84
Chloromethane	**1.3**		1.0	0.33	ug/m3			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 20:05	1.84
Cyclohexane	**0.17**	**J**	1.7	0.14	ug/m3			03/18/14 20:05	1.84
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 20:05	1.84
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/18/14 20:05	1.84
Ethanol	**340**		3.8	3.8	ug/m3			03/18/14 20:05	1.84
Ethylbenzene	**1.0**		0.87	0.30	ug/m3			03/18/14 20:05	1.84
Heptane	**1.1**	**J**	2.0	0.19	ug/m3			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 20:05	1.84
Hexane	**0.62**	**J**	1.8	0.11	ug/m3			03/18/14 20:05	1.84
Indane	ND		0.97	0.97	ug/m3			03/18/14 20:05	1.84
Indene	ND		1.9	1.9	ug/m3			03/18/14 20:05	1.84
Isopropyl alcohol	**7.3**		4.9	0.23	ug/m3			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 20:05	1.84
Methylene Chloride	**1.1**	**J**	1.7	0.45	ug/m3			03/18/14 20:05	1.84
m-Xylene & p-Xylene	**3.6**		0.87	0.52	ug/m3			03/18/14 20:05	1.84
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 20:05	1.84
o-Xylene	**1.4**		0.87	0.26	ug/m3			03/18/14 20:05	1.84
Propene	**5.3**	**cn**	0.86	0.13	ug/m3			03/18/14 20:05	1.84
Styrene	ND		0.85	0.25	ug/m3			03/18/14 20:05	1.84
Tetrachloroethene	**2.4**		1.4	0.27	ug/m3			03/18/14 20:05	1.84
Tetrahydrofuran	**0.22**	**J**	2.9	0.19	ug/m3			03/18/14 20:05	1.84
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 20:05	1.84
Toluene	**3.8**		0.75	0.45	ug/m3			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 20:05	1.84
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 20:05	1.84
Trichlorofluoromethane	**1.1**	**J**	1.1	0.13	ug/m3			03/18/14 20:05	1.84
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 20:05	1.84

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/18/14 20:05*	*1.84*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5
Lab Sample ID: 140-1063-16
Date Collected: 03/12/14 15:59
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.074**	**J**	0.20	0.031	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 21:00	1
1,2,4-Trimethylbenzene	**0.52**		0.20	0.063	ppb v/v			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 21:00	1
1,3,5-Trimethylbenzene	**0.13**	**J**	0.20	0.065	ppb v/v			03/18/14 21:00	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 21:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 21:00	1
2,2,4-Trimethylpentane	**0.15**	**J**	0.50	0.039	ppb v/v			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
2-Butanone (MEK)	**3.1**		1.0	0.20	ppb v/v			03/18/14 21:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 21:00	1
2-Methylbutane	**2.9**		0.50	0.031	ppb v/v			03/18/14 21:00	1
2-Methylpentane	**0.27**		0.20	0.20	ppb v/v			03/18/14 21:00	1
4-Ethyltoluene	**0.30**	**J**	0.40	0.066	ppb v/v			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	**0.44**	**J**	0.50	0.045	ppb v/v			03/18/14 21:00	1
Acetone	**270**	**E**	5.0	1.4	ppb v/v			03/18/14 21:00	1
Benzene	**0.41**		0.20	0.056	ppb v/v			03/18/14 21:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 21:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
Carbon disulfide	**0.13**	**J**	0.50	0.031	ppb v/v			03/18/14 21:00	1
Carbon tetrachloride	**0.073**	**J**	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 21:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 21:00	1
Chloroform	**0.053**	**J**	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chloromethane	**0.59**		0.50	0.16	ppb v/v			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 21:00	1
Cyclohexane	**0.12**	**J**	0.50	0.040	ppb v/v			03/18/14 21:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 21:00	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/18/14 21:00	1
Ethanol	**200**	**E**	2.0	2.0	ppb v/v			03/18/14 21:00	1
Ethylbenzene	**4.6**		0.20	0.068	ppb v/v			03/18/14 21:00	1
Heptane	**0.39**	**J**	0.50	0.047	ppb v/v			03/18/14 21:00	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 21:00	1
Hexane	**0.35**	**J**	0.50	0.032	ppb v/v			03/18/14 21:00	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5
Lab Sample ID: 140-1063-16
Date Collected: 03/12/14 15:59
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 21:00	1
Isopropyl alcohol	**4.3**		2.0	0.094	ppb v/v			03/18/14 21:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 21:00	1
Methylene Chloride	**14**		0.50	0.13	ppb v/v			03/18/14 21:00	1
m-Xylene & p-Xylene	**19**		0.20	0.12	ppb v/v			03/18/14 21:00	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 21:00	1
o-Xylene	**5.2**		0.20	0.061	ppb v/v			03/18/14 21:00	1
Propene	**31**	**cn**	0.50	0.077	ppb v/v			03/18/14 21:00	1
Styrene	**0.93**		0.20	0.058	ppb v/v			03/18/14 21:00	1
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/18/14 21:00	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 21:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
Toluene	**130**	**E**	0.20	0.12	ppb v/v			03/18/14 21:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Trichloroethene	**0.057**	**J**	0.20	0.036	ppb v/v			03/18/14 21:00	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/18/14 21:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 21:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.57**	**J**	1.5	0.24	ug/m3			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 21:00	1
1,2,4-Trimethylbenzene	**2.5**		0.98	0.31	ug/m3			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 21:00	1
1,3,5-Trimethylbenzene	**0.66**	**J**	0.98	0.32	ug/m3			03/18/14 21:00	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 21:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 21:00	1
2,2,4-Trimethylpentane	**0.68**	**J**	2.3	0.18	ug/m3			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 21:00	1
2-Butanone (MEK)	**9.2**		2.9	0.59	ug/m3			03/18/14 21:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 21:00	1
2-Methylbutane	**8.5**		1.5	0.091	ug/m3			03/18/14 21:00	1
2-Methylpentane	**0.94**		0.70	0.70	ug/m3			03/18/14 21:00	1
4-Ethyltoluene	**1.5**	**J**	2.0	0.32	ug/m3			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	**1.8**	**J**	2.0	0.18	ug/m3			03/18/14 21:00	1
Acetone	**640**	**E**	12	3.3	ug/m3			03/18/14 21:00	1

Client Sample ID: PCV-IA1-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		0.64	0.18	ug/m3			03/18/14 21:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 21:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 21:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 21:00	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 21:00	1
Carbon disulfide	**0.39**	**J**	1.6	0.097	ug/m3			03/18/14 21:00	1
Carbon tetrachloride	**0.46**	**J**	1.3	0.24	ug/m3			03/18/14 21:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 21:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 21:00	1
Chloroform	**0.26**	**J**	0.98	0.19	ug/m3			03/18/14 21:00	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 21:00	1
Cyclohexane	**0.42**	**J**	1.7	0.14	ug/m3			03/18/14 21:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 21:00	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/18/14 21:00	1
Ethanol	**390**	**E**	3.8	3.8	ug/m3			03/18/14 21:00	1
Ethylbenzene	**20**		0.87	0.30	ug/m3			03/18/14 21:00	1
Heptane	**1.6**	**J**	2.0	0.19	ug/m3			03/18/14 21:00	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 21:00	1
Hexane	**1.2**	**J**	1.8	0.11	ug/m3			03/18/14 21:00	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 21:00	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 21:00	1
Isopropyl alcohol	**10**		4.9	0.23	ug/m3			03/18/14 21:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 21:00	1
Methylene Chloride	**50**		1.7	0.45	ug/m3			03/18/14 21:00	1
m-Xylene & p-Xylene	**81**		0.87	0.52	ug/m3			03/18/14 21:00	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 21:00	1
o-Xylene	**23**		0.87	0.26	ug/m3			03/18/14 21:00	1
Propene	**53**	**cn**	0.86	0.13	ug/m3			03/18/14 21:00	1
Styrene	**4.0**		0.85	0.25	ug/m3			03/18/14 21:00	1
Tetrachloroethene	**1.0**	**J**	1.4	0.27	ug/m3			03/18/14 21:00	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 21:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 21:00	1
Toluene	**500**	**E**	0.75	0.45	ug/m3			03/18/14 21:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 21:00	1
Trichloroethene	**0.31**	**J**	1.1	0.19	ug/m3			03/18/14 21:00	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/18/14 21:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/18/14 21:00*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**260**		91	25	ppb v/v			03/20/14 07:15	1
Ethanol	**200**		36	36	ppb v/v			03/20/14 07:15	1
Toluene	**110**		3.6	2.2	ppb v/v			03/20/14 07:15	1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**630**		220	60	ug/m3			03/20/14 07:15	1
Ethanol	**380**		69	69	ug/m3			03/20/14 07:15	1
Toluene	**420**		14	8.2	ug/m3			03/20/14 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*60 - 140*		*03/20/14 07:15*	*1*

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 09:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 09:39	1
1,2,4-Trimethylbenzene	**0.35**		0.20	0.063	ppb v/v			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 09:39	1
1,3,5-Trimethylbenzene	**0.089**	**J**	0.20	0.065	ppb v/v			03/19/14 09:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 09:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 09:39	1
2,2,4-Trimethylpentane	**0.16**	**J**	0.50	0.039	ppb v/v			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
2-Butanone (MEK)	**3.3**		1.0	0.20	ppb v/v			03/19/14 09:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 09:39	1
2-Methylbutane	**3.2**		0.50	0.031	ppb v/v			03/19/14 09:39	1
2-Methylpentane	**0.32**		0.20	0.20	ppb v/v			03/19/14 09:39	1
4-Ethyltoluene	**0.19**	**J**	0.40	0.066	ppb v/v			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	**0.62**		0.50	0.045	ppb v/v			03/19/14 09:39	1
Acetone	**230**	**E**	5.0	1.4	ppb v/v			03/19/14 09:39	1
Benzene	**0.39**		0.20	0.056	ppb v/v			03/19/14 09:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 09:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
Carbon disulfide	**0.24**	**J**	0.50	0.031	ppb v/v			03/19/14 09:39	1
Carbon tetrachloride	**0.068**	**J**	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 09:39	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B5
Date Collected: 03/12/14 15:56
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 09:39	1
Chloroform	**0.089**	**J**	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chloromethane	**0.52**		0.50	0.16	ppb v/v			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 09:39	1
Cyclohexane	**0.18**	**J**	0.50	0.040	ppb v/v			03/19/14 09:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 09:39	1
Dichlorodifluoromethane	**0.42**		0.20	0.068	ppb v/v			03/19/14 09:39	1
Ethanol	**200**		2.0	2.0	ppb v/v			03/19/14 09:39	1
Ethylbenzene	**3.2**		0.20	0.068	ppb v/v			03/19/14 09:39	1
Heptane	**0.44**	**J**	0.50	0.047	ppb v/v			03/19/14 09:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 09:39	1
Hexane	**0.38**	**J**	0.50	0.032	ppb v/v			03/19/14 09:39	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 09:39	1
Isopropyl alcohol	**4.5**		2.0	0.094	ppb v/v			03/19/14 09:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 09:39	1
Methylene Chloride	**17**		0.50	0.13	ppb v/v			03/19/14 09:39	1
m-Xylene & p-Xylene	**12**		0.20	0.12	ppb v/v			03/19/14 09:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 09:39	1
o-Xylene	**3.3**		0.20	0.061	ppb v/v			03/19/14 09:39	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 09:39	1
Styrene	**0.91**		0.20	0.058	ppb v/v			03/19/14 09:39	1
Tetrachloroethene	**0.12**	**J**	0.20	0.040	ppb v/v			03/19/14 09:39	1
Tetrahydrofuran	**0.19**	**J**	1.0	0.063	ppb v/v			03/19/14 09:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
Toluene	**100**	**E**	0.20	0.12	ppb v/v			03/19/14 09:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Trichloroethene	**0.061**	**J**	0.20	0.036	ppb v/v			03/19/14 09:39	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 09:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 09:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 09:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.51**	**J**	1.5	0.24	ug/m3			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 09:39	1
1,2,4-Trimethylbenzene	**1.7**		0.98	0.31	ug/m3			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 09:39	1
1,3,5-Trimethylbenzene	**0.44**	**J**	0.98	0.32	ug/m3			03/19/14 09:39	1

Client Sample ID: PCV-IA2-B5
Lab Sample ID: 140-1063-17
Date Collected: 03/12/14 15:56
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 09:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 09:39	1
2,2,4-Trimethylpentane	**0.75**	**J**	2.3	0.18	ug/m3			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 09:39	1
2-Butanone (MEK)	**9.8**		2.9	0.59	ug/m3			03/19/14 09:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 09:39	1
2-Methylbutane	**9.4**		1.5	0.091	ug/m3			03/19/14 09:39	1
2-Methylpentane	**1.1**		0.70	0.70	ug/m3			03/19/14 09:39	1
4-Ethyltoluene	**0.91**	**J**	2.0	0.32	ug/m3			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	**2.6**		2.0	0.18	ug/m3			03/19/14 09:39	1
Acetone	**540**	**E**	12	3.3	ug/m3			03/19/14 09:39	1
Benzene	**1.2**		0.64	0.18	ug/m3			03/19/14 09:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 09:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 09:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 09:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 09:39	1
Carbon disulfide	**0.74**	**J**	1.6	0.097	ug/m3			03/19/14 09:39	1
Carbon tetrachloride	**0.43**	**J**	1.3	0.24	ug/m3			03/19/14 09:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 09:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 09:39	1
Chloroform	**0.43**	**J**	0.98	0.19	ug/m3			03/19/14 09:39	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 09:39	1
Cyclohexane	**0.63**	**J**	1.7	0.14	ug/m3			03/19/14 09:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 09:39	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/19/14 09:39	1
Ethanol	**370**		3.8	3.8	ug/m3			03/19/14 09:39	1
Ethylbenzene	**14**		0.87	0.30	ug/m3			03/19/14 09:39	1
Heptane	**1.8**	**J**	2.0	0.19	ug/m3			03/19/14 09:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 09:39	1
Hexane	**1.3**	**J**	1.8	0.11	ug/m3			03/19/14 09:39	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 09:39	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 09:39	1
Isopropyl alcohol	**11**		4.9	0.23	ug/m3			03/19/14 09:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 09:39	1
Methylene Chloride	**59**		1.7	0.45	ug/m3			03/19/14 09:39	1
m-Xylene & p-Xylene	**53**		0.87	0.52	ug/m3			03/19/14 09:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 09:39	1
o-Xylene	**14**		0.87	0.26	ug/m3			03/19/14 09:39	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 09:39	1
Styrene	**3.9**		0.85	0.25	ug/m3			03/19/14 09:39	1
Tetrachloroethene	**0.80**	**J**	1.4	0.27	ug/m3			03/19/14 09:39	1
Tetrahydrofuran	**0.55**	**J**	2.9	0.19	ug/m3			03/19/14 09:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 09:39	1
Toluene	**380**	**E**	0.75	0.45	ug/m3			03/19/14 09:39	1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 09:39	1
Trichloroethene	**0.33**	**J**	1.1	0.19	ug/m3			03/19/14 09:39	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 09:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/19/14 09:39*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**220**		91	25	ppb v/v			03/24/14 13:17	1
Toluene	**65**		3.6	2.2	ppb v/v			03/24/14 13:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**510**		220	60	ug/m3			03/24/14 13:17	1
Toluene	**250**		14	8.2	ug/m3			03/24/14 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*03/24/14 13:17*	*1*

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 15:32	1
1,2,4-Trimethylbenzene	**0.48**		0.20	0.063	ppb v/v			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 15:32	1
1,3,5-Trimethylbenzene	**0.13**	**J**	0.20	0.065	ppb v/v			03/21/14 15:32	1
1,3-Butadiene	**0.073**	**J**	0.40	0.064	ppb v/v			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 15:32	1
1,4-Dichlorobenzene	**0.095**	**J**	0.20	0.064	ppb v/v			03/21/14 15:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 15:32	1
2,2,4-Trimethylpentane	**0.14**	**J**	0.50	0.039	ppb v/v			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
2-Butanone (MEK)	**8.6**		1.0	0.20	ppb v/v			03/21/14 15:32	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 15:32	1
2-Methylbutane	**3.2**		0.50	0.031	ppb v/v			03/21/14 15:32	1
2-Methylpentane	**0.24**		0.20	0.20	ppb v/v			03/21/14 15:32	1
4-Ethyltoluene	**0.22**	**J**	0.40	0.066	ppb v/v			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	**3.3**		0.50	0.045	ppb v/v			03/21/14 15:32	1
Acetone	**9.8**	*	5.0	1.4	ppb v/v			03/21/14 15:32	1
Benzene	**0.37**		0.20	0.056	ppb v/v			03/21/14 15:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 15:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
Carbon disulfide	**0.054**	**J**	0.50	0.031	ppb v/v			03/21/14 15:32	1
Carbon tetrachloride	**0.071**	**J**	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 15:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 15:32	1
Chloroform	**0.064**	**J**	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chloromethane	**0.56**		0.50	0.16	ppb v/v			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 15:32	1
Cyclohexane	**0.12**	**J**	0.50	0.040	ppb v/v			03/21/14 15:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 15:32	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/21/14 15:32	1
Ethanol	**720**	**E**	2.0	2.0	ppb v/v			03/21/14 15:32	1
Ethylbenzene	**1.3**		0.20	0.068	ppb v/v			03/21/14 15:32	1
Heptane	**1.2**		0.50	0.047	ppb v/v			03/21/14 15:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 15:32	1
Hexane	**0.30**	**J**	0.50	0.032	ppb v/v			03/21/14 15:32	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 15:32	1
Isopropyl alcohol	**8.5**		2.0	0.094	ppb v/v			03/21/14 15:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 15:32	1
Methylene Chloride	**46**	**E**	0.50	0.13	ppb v/v			03/21/14 15:32	1
m-Xylene & p-Xylene	**5.1**		0.20	0.12	ppb v/v			03/21/14 15:32	1
Naphthalene	**0.10**	**J**	0.50	0.090	ppb v/v			03/21/14 15:32	1
o-Xylene	**1.6**		0.20	0.061	ppb v/v			03/21/14 15:32	1
Propene	**1.1**	**cn**	0.50	0.077	ppb v/v			03/21/14 15:32	1
Styrene	**9.5**		0.20	0.058	ppb v/v			03/21/14 15:32	1
Tetrachloroethene	**0.15**	**J**	0.20	0.040	ppb v/v			03/21/14 15:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 15:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Toluene	**17**		0.20	0.12	ppb v/v			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Trichloroethene	**0.23**		0.20	0.036	ppb v/v			03/21/14 15:32	1
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/21/14 15:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 15:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 15:32	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 15:32	1
1,2,4-Trimethylbenzene	**2.3**		0.98	0.31	ug/m3			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 15:32	1
1,3,5-Trimethylbenzene	**0.62**	**J**	0.98	0.32	ug/m3			03/21/14 15:32	1
1,3-Butadiene	**0.16**	**J**	0.88	0.14	ug/m3			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 15:32	1
1,4-Dichlorobenzene	**0.57**	**J**	1.2	0.38	ug/m3			03/21/14 15:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 15:32	1
2,2,4-Trimethylpentane	**0.67**	**J**	2.3	0.18	ug/m3			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 15:32	1
2-Butanone (MEK)	**25**		2.9	0.59	ug/m3			03/21/14 15:32	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 15:32	1
2-Methylbutane	**9.4**		1.5	0.091	ug/m3			03/21/14 15:32	1
2-Methylpentane	**0.85**		0.70	0.70	ug/m3			03/21/14 15:32	1
4-Ethyltoluene	**1.1**	**J**	2.0	0.32	ug/m3			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	**13**		2.0	0.18	ug/m3			03/21/14 15:32	1
Acetone	**23**	*	12	3.3	ug/m3			03/21/14 15:32	1
Benzene	**1.2**		0.64	0.18	ug/m3			03/21/14 15:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 15:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 15:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 15:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 15:32	1
Carbon disulfide	**0.17**	**J**	1.6	0.097	ug/m3			03/21/14 15:32	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/21/14 15:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 15:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 15:32	1
Chloroform	**0.31**	**J**	0.98	0.19	ug/m3			03/21/14 15:32	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 15:32	1
Cyclohexane	**0.42**	**J**	1.7	0.14	ug/m3			03/21/14 15:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 15:32	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/21/14 15:32	1
Ethanol	**1400**	**E**	3.8	3.8	ug/m3			03/21/14 15:32	1
Ethylbenzene	**5.5**		0.87	0.30	ug/m3			03/21/14 15:32	1
Heptane	**5.0**		2.0	0.19	ug/m3			03/21/14 15:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 15:32	1
Hexane	**1.0**	**J**	1.8	0.11	ug/m3			03/21/14 15:32	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 15:32	1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/21/14 15:32	1
Isopropyl alcohol	**21**		4.9	0.23	ug/m3			03/21/14 15:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 15:32	1
Methylene Chloride	**160**	**E**	1.7	0.45	ug/m3			03/21/14 15:32	1
m-Xylene & p-Xylene	**22**		0.87	0.52	ug/m3			03/21/14 15:32	1
Naphthalene	**0.54**	**J**	2.6	0.47	ug/m3			03/21/14 15:32	1
o-Xylene	**6.9**		0.87	0.26	ug/m3			03/21/14 15:32	1
Propene	**1.9**	**cn**	0.86	0.13	ug/m3			03/21/14 15:32	1
Styrene	**40**		0.85	0.25	ug/m3			03/21/14 15:32	1
Tetrachloroethene	**1.0**	**J**	1.4	0.27	ug/m3			03/21/14 15:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 15:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 15:32	1
Toluene	**65**		0.75	0.45	ug/m3			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 15:32	1
Trichloroethene	**1.2**		1.1	0.19	ug/m3			03/21/14 15:32	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/21/14 15:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/21/14 15:32*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**760**		20	20	ppb v/v			03/24/14 14:38	1
Methylene Chloride	**33**		5.0	1.3	ppb v/v			03/24/14 14:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**1400**		38	38	ug/m3			03/24/14 14:38	1
Methylene Chloride	**120**		17	4.5	ug/m3			03/24/14 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*60 - 140*		*03/24/14 14:38*	*1*

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 19:31	1
1,2,4-Trimethylbenzene	**0.16**	**J**	0.20	0.063	ppb v/v			03/19/14 19:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1
Date Collected: 03/13/14 16:25
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 19:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
2-Butanone (MEK)	**0.46**	**J**	1.0	0.20	ppb v/v			03/19/14 19:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 19:31	1
2-Methylbutane	**0.28**	**J**	0.50	0.031	ppb v/v			03/19/14 19:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 19:31	1
Acetone	**2.3**	**J**	5.0	1.4	ppb v/v			03/19/14 19:31	1
Benzene	**0.20**		0.20	0.056	ppb v/v			03/19/14 19:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 19:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 19:31	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/19/14 19:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 19:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 19:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 19:31	1
Chloromethane	**0.47**	**J**	0.50	0.16	ppb v/v			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 19:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 19:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 19:31	1
Dichlorodifluoromethane	**0.42**		0.20	0.068	ppb v/v			03/19/14 19:31	1
Ethanol	**7.4**		2.0	2.0	ppb v/v			03/19/14 19:31	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 19:31	1
Heptane	**0.048**	**J**	0.50	0.047	ppb v/v			03/19/14 19:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 19:31	1
Hexane	**0.095**	**J**	0.50	0.032	ppb v/v			03/19/14 19:31	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 19:31	1
Isopropyl alcohol	**0.71**	**J**	2.0	0.094	ppb v/v			03/19/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 19:31	1
Methylene Chloride	**0.28**	**J**	0.50	0.13	ppb v/v			03/19/14 19:31	1
m-Xylene & p-Xylene	**0.22**		0.20	0.12	ppb v/v			03/19/14 19:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 19:31	1
o-Xylene	**0.088**	**J**	0.20	0.061	ppb v/v			03/19/14 19:31	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1
Date Collected: 03/13/14 16:25
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propene	**0.41**	**J cn**	0.50	0.077	ppb v/v			03/19/14 19:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 19:31	1
Tetrachloroethene	**0.093**	**J**	0.20	0.040	ppb v/v			03/19/14 19:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 19:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Toluene	**0.36**		0.20	0.12	ppb v/v			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 19:31	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/19/14 19:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 19:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.52**	**J**	1.5	0.24	ug/m3			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 19:31	1
1,2,4-Trimethylbenzene	**0.76**	**J**	0.98	0.31	ug/m3			03/19/14 19:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 19:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 19:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 19:31	1
2-Butanone (MEK)	**1.4**	**J**	2.9	0.59	ug/m3			03/19/14 19:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 19:31	1
2-Methylbutane	**0.83**	**J**	1.5	0.091	ug/m3			03/19/14 19:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 19:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 19:31	1
Acetone	**5.5**	**J**	12	3.3	ug/m3			03/19/14 19:31	1
Benzene	**0.64**		0.64	0.18	ug/m3			03/19/14 19:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 19:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 19:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 19:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 19:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 19:31	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/19/14 19:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 19:31	1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 19:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 19:31	1
Chloromethane	**0.97**	**J**	1.0	0.33	ug/m3			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 19:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 19:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 19:31	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/19/14 19:31	1
Ethanol	**14**		3.8	3.8	ug/m3			03/19/14 19:31	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 19:31	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/19/14 19:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 19:31	1
Hexane	**0.34**	**J**	1.8	0.11	ug/m3			03/19/14 19:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 19:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 19:31	1
Isopropyl alcohol	**1.7**	**J**	4.9	0.23	ug/m3			03/19/14 19:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 19:31	1
Methylene Chloride	**0.98**	**J**	1.7	0.45	ug/m3			03/19/14 19:31	1
m-Xylene & p-Xylene	**0.97**		0.87	0.52	ug/m3			03/19/14 19:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 19:31	1
o-Xylene	**0.38**	**J**	0.87	0.26	ug/m3			03/19/14 19:31	1
Propene	**0.70**	**J cn**	0.86	0.13	ug/m3			03/19/14 19:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 19:31	1
Tetrachloroethene	**0.63**	**J**	1.4	0.27	ug/m3			03/19/14 19:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 19:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 19:31	1
Toluene	**1.3**		0.75	0.45	ug/m3			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 19:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 19:31	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/19/14 19:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/19/14 19:31*	*1*

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 20:25	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3
Date Collected: 03/13/14 17:06
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 20:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 20:25	1
2,2,4-Trimethylpentane	**0.042**	**J**	0.50	0.039	ppb v/v			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
2-Butanone (MEK)	**0.22**	**J**	1.0	0.20	ppb v/v			03/19/14 20:25	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 20:25	1
2-Methylbutane	**0.32**	**J**	0.50	0.031	ppb v/v			03/19/14 20:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	**0.10**	**J**	0.50	0.045	ppb v/v			03/19/14 20:25	1
Acetone	**1.7**	**J**	5.0	1.4	ppb v/v			03/19/14 20:25	1
Benzene	**0.23**		0.20	0.056	ppb v/v			03/19/14 20:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 20:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 20:25	1
Carbon tetrachloride	**0.072**	**J**	0.20	0.038	ppb v/v			03/19/14 20:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 20:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 20:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 20:25	1
Chloromethane	**0.54**		0.50	0.16	ppb v/v			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 20:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 20:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 20:25	1
Dichlorodifluoromethane	**0.46**		0.20	0.068	ppb v/v			03/19/14 20:25	1
Ethanol	**12**		2.0	2.0	ppb v/v			03/19/14 20:25	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 20:25	1
Heptane	**0.053**	**J**	0.50	0.047	ppb v/v			03/19/14 20:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 20:25	1
Hexane	**0.11**	**J**	0.50	0.032	ppb v/v			03/19/14 20:25	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 20:25	1
Isopropyl alcohol	**0.83**	**J**	2.0	0.094	ppb v/v			03/19/14 20:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 20:25	1
Methylene Chloride	**0.29**	**J**	0.50	0.13	ppb v/v			03/19/14 20:25	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3
Date Collected: 03/13/14 17:06
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**0.14**	**J**	0.20	0.12	ppb v/v			03/19/14 20:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 20:25	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
Propene	**0.43**	**J cn**	0.50	0.077	ppb v/v			03/19/14 20:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 20:25	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 20:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 20:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Toluene	**0.37**		0.20	0.12	ppb v/v			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 20:25	1
Trichlorofluoromethane	**0.21**		0.20	0.024	ppb v/v			03/19/14 20:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 20:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 20:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 20:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 20:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 20:25	1
2,2,4-Trimethylpentane	**0.19**	**J**	2.3	0.18	ug/m3			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 20:25	1
2-Butanone (MEK)	**0.65**	**J**	2.9	0.59	ug/m3			03/19/14 20:25	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 20:25	1
2-Methylbutane	**0.96**	**J**	1.5	0.091	ug/m3			03/19/14 20:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 20:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	**0.42**	**J**	2.0	0.18	ug/m3			03/19/14 20:25	1
Acetone	**4.1**	**J**	12	3.3	ug/m3			03/19/14 20:25	1
Benzene	**0.74**		0.64	0.18	ug/m3			03/19/14 20:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 20:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 20:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 20:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 20:25	1

Client Sample ID: AMB-3 — **Lab Sample ID: 140-1063-20**
Date Collected: 03/13/14 17:06 — **Matrix: Air**
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 20:25	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/19/14 20:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 20:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 20:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 20:25	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 20:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 20:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 20:25	1
Dichlorodifluoromethane	**2.3**		0.99	0.34	ug/m3			03/19/14 20:25	1
Ethanol	**23**		3.8	3.8	ug/m3			03/19/14 20:25	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 20:25	1
Heptane	**0.22**	**J**	2.0	0.19	ug/m3			03/19/14 20:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 20:25	1
Hexane	**0.39**	**J**	1.8	0.11	ug/m3			03/19/14 20:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 20:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 20:25	1
Isopropyl alcohol	**2.1**	**J**	4.9	0.23	ug/m3			03/19/14 20:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 20:25	1
Methylene Chloride	**1.0**	**J**	1.7	0.45	ug/m3			03/19/14 20:25	1
m-Xylene & p-Xylene	**0.62**	**J**	0.87	0.52	ug/m3			03/19/14 20:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 20:25	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 20:25	1
Propene	**0.74**	**J cn**	0.86	0.13	ug/m3			03/19/14 20:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 20:25	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 20:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 20:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 20:25	1
Toluene	**1.4**		0.75	0.45	ug/m3			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 20:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 20:25	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 20:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*60 - 140*		*03/19/14 20:25*	*1*

Client Sample ID: IA1-E19 — **Lab Sample ID: 140-1063-21**
Date Collected: 03/13/14 16:18 — **Matrix: Air**
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 21:18	1

Client Sample ID: IA1-E19
Lab Sample ID: 140-1063-21
Date Collected: 03/13/14 16:18
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.067**	**J**	0.20	0.031	ppb v/v			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 21:18	1
1,2,4-Trimethylbenzene	**0.088**	**J**	0.20	0.063	ppb v/v			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,4-Dichlorobenzene	**0.25**		0.20	0.064	ppb v/v			03/19/14 21:18	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 21:18	1
2,2,4-Trimethylpentane	**0.083**	**J**	0.50	0.039	ppb v/v			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
2-Butanone (MEK)	**0.44**	**J**	1.0	0.20	ppb v/v			03/19/14 21:18	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 21:18	1
2-Methylbutane	**0.74**		0.50	0.031	ppb v/v			03/19/14 21:18	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	**0.27**	**J**	0.50	0.045	ppb v/v			03/19/14 21:18	1
Acetone	**4.0**	**J**	5.0	1.4	ppb v/v			03/19/14 21:18	1
Benzene	**0.28**		0.20	0.056	ppb v/v			03/19/14 21:18	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 21:18	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 21:18	1
Carbon tetrachloride	**0.072**	**J**	0.20	0.038	ppb v/v			03/19/14 21:18	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 21:18	1
Chloroethane	**0.11**	**J**	0.20	0.035	ppb v/v			03/19/14 21:18	1
Chloroform	**0.55**		0.20	0.038	ppb v/v			03/19/14 21:18	1
Chloromethane	**0.54**		0.50	0.16	ppb v/v			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 21:18	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 21:18	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 21:18	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 21:18	1
Ethanol	**50**		2.0	2.0	ppb v/v			03/19/14 21:18	1
Ethylbenzene	**0.092**	**J**	0.20	0.068	ppb v/v			03/19/14 21:18	1
Heptane	**0.098**	**J**	0.50	0.047	ppb v/v			03/19/14 21:18	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 21:18	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/19/14 21:18	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 21:18	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19
Date Collected: 03/13/14 16:18
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**2.1**		2.0	0.094	ppb v/v			03/19/14 21:18	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 21:18	1
Methylene Chloride	**0.27**	**J**	0.50	0.13	ppb v/v			03/19/14 21:18	1
m-Xylene & p-Xylene	**0.28**		0.20	0.12	ppb v/v			03/19/14 21:18	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 21:18	1
o-Xylene	**0.11**	**J**	0.20	0.061	ppb v/v			03/19/14 21:18	1
Propene	**1.0**	**cn**	0.50	0.077	ppb v/v			03/19/14 21:18	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 21:18	1
Tetrachloroethene	**0.075**	**J**	0.20	0.040	ppb v/v			03/19/14 21:18	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 21:18	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Toluene	**0.57**		0.20	0.12	ppb v/v			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 21:18	1
Trichlorofluoromethane	**0.22**		0.20	0.024	ppb v/v			03/19/14 21:18	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 21:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 21:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.51**	**J**	1.5	0.24	ug/m3			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 21:18	1
1,2,4-Trimethylbenzene	**0.43**	**J**	0.98	0.31	ug/m3			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 21:18	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 21:18	1
1,4-Dichlorobenzene	**1.5**		1.2	0.38	ug/m3			03/19/14 21:18	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 21:18	1
2,2,4-Trimethylpentane	**0.39**	**J**	2.3	0.18	ug/m3			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 21:18	1
2-Butanone (MEK)	**1.3**	**J**	2.9	0.59	ug/m3			03/19/14 21:18	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 21:18	1
2-Methylbutane	**2.2**		1.5	0.091	ug/m3			03/19/14 21:18	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 21:18	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	**1.1**	**J**	2.0	0.18	ug/m3			03/19/14 21:18	1
Acetone	**9.4**	**J**	12	3.3	ug/m3			03/19/14 21:18	1
Benzene	**0.89**		0.64	0.18	ug/m3			03/19/14 21:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 21:18	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19
Date Collected: 03/13/14 16:18
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 21:18	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 21:18	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 21:18	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 21:18	1
Carbon tetrachloride	**0.45**	**J**	1.3	0.24	ug/m3			03/19/14 21:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 21:18	1
Chloroethane	**0.30**	**J**	0.53	0.092	ug/m3			03/19/14 21:18	1
Chloroform	**2.7**		0.98	0.19	ug/m3			03/19/14 21:18	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 21:18	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 21:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 21:18	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 21:18	1
Ethanol	**95**		3.8	3.8	ug/m3			03/19/14 21:18	1
Ethylbenzene	**0.40**	**J**	0.87	0.30	ug/m3			03/19/14 21:18	1
Heptane	**0.40**	**J**	2.0	0.19	ug/m3			03/19/14 21:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 21:18	1
Hexane	**0.49**	**J**	1.8	0.11	ug/m3			03/19/14 21:18	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 21:18	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 21:18	1
Isopropyl alcohol	**5.1**		4.9	0.23	ug/m3			03/19/14 21:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 21:18	1
Methylene Chloride	**0.95**	**J**	1.7	0.45	ug/m3			03/19/14 21:18	1
m-Xylene & p-Xylene	**1.2**		0.87	0.52	ug/m3			03/19/14 21:18	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 21:18	1
o-Xylene	**0.49**	**J**	0.87	0.26	ug/m3			03/19/14 21:18	1
Propene	**1.7**	**cn**	0.86	0.13	ug/m3			03/19/14 21:18	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 21:18	1
Tetrachloroethene	**0.51**	**J**	1.4	0.27	ug/m3			03/19/14 21:18	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 21:18	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 21:18	1
Toluene	**2.2**		0.75	0.45	ug/m3			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 21:18	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 21:18	1
Trichlorofluoromethane	**1.2**		1.1	0.13	ug/m3			03/19/14 21:18	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/19/14 21:18*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19
Date Collected: 03/13/14 17:05
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.051**	**J**	0.20	0.030	ppb v/v			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**J**	0.20	0.031	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,4-Dichlorobenzene	**0.26**		0.20	0.064	ppb v/v			03/19/14 22:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 22:12	1
2,2,4-Trimethylpentane	**0.056**	**J**	0.50	0.039	ppb v/v			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
2-Butanone (MEK)	**0.30**	**J**	1.0	0.20	ppb v/v			03/19/14 22:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 22:12	1
2-Methylbutane	**0.47**	**J**	0.50	0.031	ppb v/v			03/19/14 22:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	**0.14**	**J**	0.50	0.045	ppb v/v			03/19/14 22:12	1
Acetone	**2.9**	**J**	5.0	1.4	ppb v/v			03/19/14 22:12	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/19/14 22:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 22:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 22:12	1
Carbon tetrachloride	**0.058**	**J**	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 22:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 22:12	1
Chloroform	**0.14**	**J**	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chloromethane	**0.56**		0.50	0.16	ppb v/v			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 22:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 22:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 22:12	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/19/14 22:12	1
Ethanol	**160**		2.0	2.0	ppb v/v			03/19/14 22:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 22:12	1
Heptane	**0.084**	**J**	0.50	0.047	ppb v/v			03/19/14 22:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 22:12	1
Hexane	**0.12**	**J**	0.50	0.032	ppb v/v			03/19/14 22:12	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19
Date Collected: 03/13/14 17:05
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 22:12	1
Isopropyl alcohol	**6.2**		2.0	0.094	ppb v/v			03/19/14 22:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 22:12	1
Methylene Chloride	**0.51**		0.50	0.13	ppb v/v			03/19/14 22:12	1
m-Xylene & p-Xylene	**0.20**		0.20	0.12	ppb v/v			03/19/14 22:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 22:12	1
o-Xylene	**0.075**	**J**	0.20	0.061	ppb v/v			03/19/14 22:12	1
Propene	**0.93**	**cn**	0.50	0.077	ppb v/v			03/19/14 22:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 22:12	1
Tetrachloroethene	**0.067**	**J**	0.20	0.040	ppb v/v			03/19/14 22:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 22:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Toluene	**0.58**		0.20	0.12	ppb v/v			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 22:12	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/19/14 22:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 22:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.28**	**J**	1.1	0.16	ug/m3			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.50**	**J**	1.5	0.24	ug/m3			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 22:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 22:12	1
1,4-Dichlorobenzene	**1.5**		1.2	0.38	ug/m3			03/19/14 22:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 22:12	1
2,2,4-Trimethylpentane	**0.26**	**J**	2.3	0.18	ug/m3			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 22:12	1
2-Butanone (MEK)	**0.88**	**J**	2.9	0.59	ug/m3			03/19/14 22:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 22:12	1
2-Methylbutane	**1.4**	**J**	1.5	0.091	ug/m3			03/19/14 22:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 22:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	**0.57**	**J**	2.0	0.18	ug/m3			03/19/14 22:12	1
Acetone	**6.9**	**J**	12	3.3	ug/m3			03/19/14 22:12	1

Client Sample ID: IA2-E19
Lab Sample ID: 140-1063-22
Date Collected: 03/13/14 17:05
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.76**		0.64	0.18	ug/m3			03/19/14 22:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 22:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 22:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 22:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 22:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 22:12	1
Carbon tetrachloride	**0.37**	**J**	1.3	0.24	ug/m3			03/19/14 22:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 22:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 22:12	1
Chloroform	**0.68**	**J**	0.98	0.19	ug/m3			03/19/14 22:12	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 22:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 22:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 22:12	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/19/14 22:12	1
Ethanol	**300**		3.8	3.8	ug/m3			03/19/14 22:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 22:12	1
Heptane	**0.34**	**J**	2.0	0.19	ug/m3			03/19/14 22:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 22:12	1
Hexane	**0.42**	**J**	1.8	0.11	ug/m3			03/19/14 22:12	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 22:12	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 22:12	1
Isopropyl alcohol	**15**		4.9	0.23	ug/m3			03/19/14 22:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 22:12	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/19/14 22:12	1
m-Xylene & p-Xylene	**0.85**		0.87	0.52	ug/m3			03/19/14 22:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 22:12	1
o-Xylene	**0.33**	**J**	0.87	0.26	ug/m3			03/19/14 22:12	1
Propene	**1.6**	**cn**	0.86	0.13	ug/m3			03/19/14 22:12	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 22:12	1
Tetrachloroethene	**0.46**	**J**	1.4	0.27	ug/m3			03/19/14 22:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 22:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 22:12	1
Toluene	**2.2**		0.75	0.45	ug/m3			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 22:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 22:12	1
Trichlorofluoromethane	**1.4**		1.1	0.13	ug/m3			03/19/14 22:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/19/14 22:12*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17
Date Collected: 03/13/14 15:17
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**J**	0.20	0.031	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,3-Butadiene	**0.14**	**J**	0.40	0.064	ppb v/v			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 23:06	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
2-Butanone (MEK)	**0.36**	**J**	1.0	0.20	ppb v/v			03/19/14 23:06	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 23:06	1
2-Methylbutane	**0.64**		0.50	0.031	ppb v/v			03/19/14 23:06	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	**0.97**		0.50	0.045	ppb v/v			03/19/14 23:06	1
Acetone	**2.3**	**J**	5.0	1.4	ppb v/v			03/19/14 23:06	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/19/14 23:06	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 23:06	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 23:06	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 23:06	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 23:06	1
Chloroform	**0.050**	**J**	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 23:06	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 23:06	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 23:06	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/19/14 23:06	1
Ethanol	**19**		2.0	2.0	ppb v/v			03/19/14 23:06	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 23:06	1
Heptane	**0.058**	**J**	0.50	0.047	ppb v/v			03/19/14 23:06	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 23:06	1
Hexane	**0.12**	**J**	0.50	0.032	ppb v/v			03/19/14 23:06	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17
Date Collected: 03/13/14 15:17
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 23:06	1
Isopropyl alcohol	**5.9**		2.0	0.094	ppb v/v			03/19/14 23:06	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 23:06	1
Methylene Chloride	**0.23**	**J**	0.50	0.13	ppb v/v			03/19/14 23:06	1
m-Xylene & p-Xylene	**0.16**	**J**	0.20	0.12	ppb v/v			03/19/14 23:06	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 23:06	1
o-Xylene	**0.063**	**J**	0.20	0.061	ppb v/v			03/19/14 23:06	1
Propene	**2.6**	**cn**	0.50	0.077	ppb v/v			03/19/14 23:06	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 23:06	1
Tetrachloroethene	**0.050**	**J**	0.20	0.040	ppb v/v			03/19/14 23:06	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 23:06	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Toluene	**0.82**		0.20	0.12	ppb v/v			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 23:06	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/19/14 23:06	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 23:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.54**	**J**	1.5	0.24	ug/m3			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 23:06	1
1,3-Butadiene	**0.31**	**J**	0.88	0.14	ug/m3			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 23:06	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 23:06	1
2-Butanone (MEK)	**1.1**	**J**	2.9	0.59	ug/m3			03/19/14 23:06	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 23:06	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/19/14 23:06	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 23:06	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	**4.0**		2.0	0.18	ug/m3			03/19/14 23:06	1
Acetone	**5.5**	**J**	12	3.3	ug/m3			03/19/14 23:06	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17
Date Collected: 03/13/14 15:17
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.76**		0.64	0.18	ug/m3			03/19/14 23:06	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 23:06	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 23:06	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 23:06	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 23:06	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 23:06	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/19/14 23:06	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 23:06	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 23:06	1
Chloroform	**0.25**	**J**	0.98	0.19	ug/m3			03/19/14 23:06	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 23:06	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 23:06	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 23:06	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/19/14 23:06	1
Ethanol	**35**		3.8	3.8	ug/m3			03/19/14 23:06	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 23:06	1
Heptane	**0.24**	**J**	2.0	0.19	ug/m3			03/19/14 23:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 23:06	1
Hexane	**0.41**	**J**	1.8	0.11	ug/m3			03/19/14 23:06	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 23:06	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 23:06	1
Isopropyl alcohol	**14**		4.9	0.23	ug/m3			03/19/14 23:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 23:06	1
Methylene Chloride	**0.81**	**J**	1.7	0.45	ug/m3			03/19/14 23:06	1
m-Xylene & p-Xylene	**0.70**	**J**	0.87	0.52	ug/m3			03/19/14 23:06	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 23:06	1
o-Xylene	**0.28**	**J**	0.87	0.26	ug/m3			03/19/14 23:06	1
Propene	**4.4**	**cn**	0.86	0.13	ug/m3			03/19/14 23:06	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 23:06	1
Tetrachloroethene	**0.34**	**J**	1.4	0.27	ug/m3			03/19/14 23:06	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 23:06	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 23:06	1
Toluene	**3.1**		0.75	0.45	ug/m3			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 23:06	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 23:06	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/19/14 23:06	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/19/14 23:06*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**J**	0.20	0.031	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,3-Butadiene	**0.13**	**J**	0.40	0.064	ppb v/v			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 00:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
2-Butanone (MEK)	**0.27**	**J**	1.0	0.20	ppb v/v			03/20/14 00:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 00:01	1
2-Methylbutane	**0.61**		0.50	0.031	ppb v/v			03/20/14 00:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 00:01	1
Acetone	**2.6**	**J**	5.0	1.4	ppb v/v			03/20/14 00:01	1
Benzene	**0.24**		0.20	0.056	ppb v/v			03/20/14 00:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 00:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 00:01	1
Carbon tetrachloride	**0.066**	**J**	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 00:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 00:01	1
Chloroform	**0.052**	**J**	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chloromethane	**0.56**		0.50	0.16	ppb v/v			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 00:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 00:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 00:01	1
Dichlorodifluoromethane	**0.43**		0.20	0.068	ppb v/v			03/20/14 00:01	1
Ethanol	**18**		2.0	2.0	ppb v/v			03/20/14 00:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 00:01	1
Heptane	**0.076**	**J**	0.50	0.047	ppb v/v			03/20/14 00:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 00:01	1
Hexane	**0.14**	**J**	0.50	0.032	ppb v/v			03/20/14 00:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 00:01	1
Isopropyl alcohol	**5.4**		2.0	0.094	ppb v/v			03/20/14 00:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 00:01	1
Methylene Chloride	**0.30**	**J**	0.50	0.13	ppb v/v			03/20/14 00:01	1
m-Xylene & p-Xylene	**0.15**	**J**	0.20	0.12	ppb v/v			03/20/14 00:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 00:01	1
o-Xylene	**0.062**	**J**	0.20	0.061	ppb v/v			03/20/14 00:01	1
Propene	**2.4**	**cn**	0.50	0.077	ppb v/v			03/20/14 00:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 00:01	1
Tetrachloroethene	**0.042**	**J**	0.20	0.040	ppb v/v			03/20/14 00:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 00:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Toluene	**0.63**		0.20	0.12	ppb v/v			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 00:01	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/20/14 00:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 00:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.52**	**J**	1.5	0.24	ug/m3			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 00:01	1
1,3-Butadiene	**0.28**	**J**	0.88	0.14	ug/m3			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 00:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 00:01	1
2-Butanone (MEK)	**0.80**	**J**	2.9	0.59	ug/m3			03/20/14 00:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 00:01	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/20/14 00:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 00:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 00:01	1
Acetone	**6.2**	**J**	12	3.3	ug/m3			03/20/14 00:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.78**		0.64	0.18	ug/m3			03/20/14 00:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 00:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 00:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 00:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 00:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 00:01	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.24	ug/m3			03/20/14 00:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 00:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 00:01	1
Chloroform	**0.26**	**J**	0.98	0.19	ug/m3			03/20/14 00:01	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 00:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 00:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 00:01	1
Dichlorodifluoromethane	**2.1**		0.99	0.34	ug/m3			03/20/14 00:01	1
Ethanol	**33**		3.8	3.8	ug/m3			03/20/14 00:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 00:01	1
Heptane	**0.31**	**J**	2.0	0.19	ug/m3			03/20/14 00:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 00:01	1
Hexane	**0.50**	**J**	1.8	0.11	ug/m3			03/20/14 00:01	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 00:01	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 00:01	1
Isopropyl alcohol	**13**		4.9	0.23	ug/m3			03/20/14 00:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 00:01	1
Methylene Chloride	**1.1**	**J**	1.7	0.45	ug/m3			03/20/14 00:01	1
m-Xylene & p-Xylene	**0.65**	**J**	0.87	0.52	ug/m3			03/20/14 00:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 00:01	1
o-Xylene	**0.27**	**J**	0.87	0.26	ug/m3			03/20/14 00:01	1
Propene	**4.1**	**cn**	0.86	0.13	ug/m3			03/20/14 00:01	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 00:01	1
Tetrachloroethene	**0.29**	**J**	1.4	0.27	ug/m3			03/20/14 00:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 00:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 00:01	1
Toluene	**2.4**		0.75	0.45	ug/m3			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 00:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 00:01	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/20/14 00:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/20/14 00:01*	*1*

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17
Date Collected: 03/13/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-25
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**J**	0.20	0.031	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 01:49	1
1,2,4-Trimethylbenzene	**0.068**	**J**	0.20	0.063	ppb v/v			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,3-Butadiene	**0.58**		0.40	0.064	ppb v/v			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,4-Dichlorobenzene	**0.14**	**J**	0.20	0.064	ppb v/v			03/20/14 01:49	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
2-Butanone (MEK)	**1.1**		1.0	0.20	ppb v/v			03/20/14 01:49	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 01:49	1
2-Methylbutane	**0.64**		0.50	0.031	ppb v/v			03/20/14 01:49	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	**0.31**	**J**	0.50	0.045	ppb v/v			03/20/14 01:49	1
Acetone	**7.4**		5.0	1.4	ppb v/v			03/20/14 01:49	1
Benzene	**0.71**		0.20	0.056	ppb v/v			03/20/14 01:49	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 01:49	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 01:49	1
Carbon tetrachloride	**0.070**	**J**	0.20	0.038	ppb v/v			03/20/14 01:49	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 01:49	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 01:49	1
Chloroform	**0.24**		0.20	0.038	ppb v/v			03/20/14 01:49	1
Chloromethane	**1.2**		0.50	0.16	ppb v/v			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 01:49	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 01:49	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 01:49	1
Dichlorodifluoromethane	**0.44**		0.20	0.068	ppb v/v			03/20/14 01:49	1
Ethanol	**68**		2.0	2.0	ppb v/v			03/20/14 01:49	1
Ethylbenzene	**0.16**	**J**	0.20	0.068	ppb v/v			03/20/14 01:49	1
Heptane	**0.11**	**J**	0.50	0.047	ppb v/v			03/20/14 01:49	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 01:49	1
Hexane	**0.17**	**J**	0.50	0.032	ppb v/v			03/20/14 01:49	1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 01:49	1
Isopropyl alcohol	**5.1**		2.0	0.094	ppb v/v			03/20/14 01:49	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 01:49	1
Methylene Chloride	**0.22**	**J**	0.50	0.13	ppb v/v			03/20/14 01:49	1
m-Xylene & p-Xylene	**0.48**		0.20	0.12	ppb v/v			03/20/14 01:49	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 01:49	1
o-Xylene	**0.14**	**J**	0.20	0.061	ppb v/v			03/20/14 01:49	1
Propene	**3.8**	**cn**	0.50	0.077	ppb v/v			03/20/14 01:49	1
Styrene	**0.10**	**J**	0.20	0.058	ppb v/v			03/20/14 01:49	1
Tetrachloroethene	**0.044**	**J**	0.20	0.040	ppb v/v			03/20/14 01:49	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 01:49	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Toluene	**1.6**		0.20	0.12	ppb v/v			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 01:49	1
Trichlorofluoromethane	**0.20**		0.20	0.024	ppb v/v			03/20/14 01:49	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 01:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.53**	**J**	1.5	0.24	ug/m3			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 01:49	1
1,2,4-Trimethylbenzene	**0.34**	**J**	0.98	0.31	ug/m3			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 01:49	1
1,3-Butadiene	**1.3**		0.88	0.14	ug/m3			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 01:49	1
1,4-Dichlorobenzene	**0.82**	**J**	1.2	0.38	ug/m3			03/20/14 01:49	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 01:49	1
2-Butanone (MEK)	**3.2**		2.9	0.59	ug/m3			03/20/14 01:49	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 01:49	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/20/14 01:49	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 01:49	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	**1.2**	**J**	2.0	0.18	ug/m3			03/20/14 01:49	1
Acetone	**18**		12	3.3	ug/m3			03/20/14 01:49	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17
Date Collected: 03/13/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-25
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.3**		0.64	0.18	ug/m3			03/20/14 01:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 01:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 01:49	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 01:49	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 01:49	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 01:49	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.24	ug/m3			03/20/14 01:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 01:49	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 01:49	1
Chloroform	**1.2**		0.98	0.19	ug/m3			03/20/14 01:49	1
Chloromethane	**2.5**		1.0	0.33	ug/m3			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 01:49	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 01:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 01:49	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/20/14 01:49	1
Ethanol	**130**		3.8	3.8	ug/m3			03/20/14 01:49	1
Ethylbenzene	**0.70**	**J**	0.87	0.30	ug/m3			03/20/14 01:49	1
Heptane	**0.44**	**J**	2.0	0.19	ug/m3			03/20/14 01:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 01:49	1
Hexane	**0.59**	**J**	1.8	0.11	ug/m3			03/20/14 01:49	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 01:49	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 01:49	1
Isopropyl alcohol	**12**		4.9	0.23	ug/m3			03/20/14 01:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 01:49	1
Methylene Chloride	**0.78**	**J**	1.7	0.45	ug/m3			03/20/14 01:49	1
m-Xylene & p-Xylene	**2.1**		0.87	0.52	ug/m3			03/20/14 01:49	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 01:49	1
o-Xylene	**0.59**	**J**	0.87	0.26	ug/m3			03/20/14 01:49	1
Propene	**6.6**	**cn**	0.86	0.13	ug/m3			03/20/14 01:49	1
Styrene	**0.43**	**J**	0.85	0.25	ug/m3			03/20/14 01:49	1
Tetrachloroethene	**0.30**	**J**	1.4	0.27	ug/m3			03/20/14 01:49	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 01:49	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 01:49	1
Toluene	**5.9**		0.75	0.45	ug/m3			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 01:49	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 01:49	1
Trichlorofluoromethane	**1.1**		1.1	0.13	ug/m3			03/20/14 01:49	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/20/14 01:49*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB							
Lab Sample ID	Client Sample ID	(60-140)							
140-1063-1	IA4-E14	91							
140-1063-2	IA5-E14	94							
140-1063-3	IA6-E14	95							
140-1063-4	IA7-E14	92							
140-1063-5	AMB-2	90							
140-1063-6	AMB-4	90							
140-1063-8	PCV-IA2-B7	99							
140-1063-9	PCV-IA3-B7	95							
140-1063-10	PCV-IA1-B11	94							
140-1063-11	PCV-IA2-B11	96							
140-1063-12	PCV-IA3-B11	99							
140-1063-13	IA1-E14	98							
140-1063-14	IA2-E14	97							
140-1063-15	IA3-E14	95							
140-1063-16	PCV-IA1-B5	96							
140-1063-16 - DL	PCV-IA1-B5	88							
140-1063-17	PCV-IA2-B5	97							
140-1063-17 - DL	PCV-IA2-B5	83							
140-1063-18	PCV-IAPC-B5	96							
140-1063-18 - DL	PCV-IAPC-B5	87							
140-1063-19	AMB-1	92							
140-1063-20	AMB-3	91							
140-1063-21	IA1-E19	95							
140-1063-22	IA2-E19	94							
140-1063-23	IA1-E17	94							
140-1063-24	IA1FD-E17	96							
140-1063-25	IA2-E17	95							
LCS 140-971/1002	Lab Control Sample	99							
LCS 140-976/1002	Lab Control Sample	98							
LCS 140-984/1002	Lab Control Sample	100							
LCS 140-990/1002	Lab Control Sample	104							
MB 140-971/9	Method Blank	98							
MB 140-976/1004	Method Blank	93							
MB 140-984/5	Method Blank	93							
MB 140-990/1005	Method Blank	96							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-971/9
Matrix: Air
Analysis Batch: 971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/18/14 16:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 16:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 16:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 16:42	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 16:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 16:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 16:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 16:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 16:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 16:42	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 16:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 16:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 16:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 16:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 16:42	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/18/14 16:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/18/14 16:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 16:42	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/18/14 16:42	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/18/14 16:42	1
Acetone	ND		5.0	1.4	ppb v/v			03/18/14 16:42	1
Benzene	ND		0.20	0.056	ppb v/v			03/18/14 16:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 16:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 16:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 16:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 16:42	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 16:42	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/18/14 16:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 16:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 16:42	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 16:42	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/18/14 16:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 16:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 16:42	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 16:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 16:42	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/18/14 16:42	1
Ethanol	ND		2.0	2.0	ppb v/v			03/18/14 16:42	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 16:42	1
Heptane	ND		0.50	0.047	ppb v/v			03/18/14 16:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 16:42	1
Hexane	ND		0.50	0.032	ppb v/v			03/18/14 16:42	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-971/9
Matrix: Air
Analysis Batch: 971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 16:42	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/18/14 16:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 16:42	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/18/14 16:42	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/18/14 16:42	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 16:42	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/18/14 16:42	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 16:42	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 16:42	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/18/14 16:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 16:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
Toluene	ND		0.20	0.12	ppb v/v			03/18/14 16:42	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 16:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 16:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 16:42	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/18/14 16:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 16:42	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/18/14 16:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 16:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 16:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 16:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 16:42	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 16:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 16:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 16:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 16:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 16:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 16:42	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 16:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 16:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 16:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 16:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 16:42	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/18/14 16:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 16:42	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/18/14 16:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 16:42	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/18/14 16:42	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 16:42	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/18/14 16:42	1
Acetone	ND		12	3.3	ug/m3			03/18/14 16:42	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-971/9
Matrix: Air
Analysis Batch: 971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/18/14 16:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 16:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 16:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 16:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 16:42	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 16:42	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/18/14 16:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 16:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 16:42	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 16:42	1
Chloromethane	ND		1.0	0.33	ug/m3			03/18/14 16:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 16:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 16:42	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 16:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 16:42	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/18/14 16:42	1
Ethanol	ND		3.8	3.8	ug/m3			03/18/14 16:42	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 16:42	1
Heptane	ND		2.0	0.19	ug/m3			03/18/14 16:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 16:42	1
Hexane	ND		1.8	0.11	ug/m3			03/18/14 16:42	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 16:42	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 16:42	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/18/14 16:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 16:42	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/18/14 16:42	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/18/14 16:42	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 16:42	1
o-Xylene	ND		0.87	0.26	ug/m3			03/18/14 16:42	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 16:42	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 16:42	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/18/14 16:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 16:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 16:42	1
Toluene	ND		0.75	0.45	ug/m3			03/18/14 16:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 16:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 16:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 16:42	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/18/14 16:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/18/14 16:42*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1-Dichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1-Dichloroethene	2.00	2.29		ppb v/v		114	70 - 130
1,2,4-Trichlorobenzene	2.00	1.92		ppb v/v		96	60 - 140
1,2,4-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13		ppb v/v		106	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		98	70 - 130
1,2-Dichloroethane	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dichloropropane	2.00	1.99		ppb v/v		100	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Butadiene	2.00	2.05		ppb v/v		102	60 - 140
1,3-Dichlorobenzene	2.00	1.95		ppb v/v		97	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		97	70 - 130
1,4-Dioxane	2.00	1.97		ppb v/v		99	60 - 140
2,2,4-Trimethylpentane	2.00	2.08		ppb v/v		104	70 - 130
2,3-Dimethylpentane	2.00	2.03		ppb v/v		101	20 - 180
2-Butanone (MEK)	2.00	1.96		ppb v/v		98	60 - 140
2-Hexanone	2.00	2.10		ppb v/v		105	60 - 140
2-Methylbutane	2.00	1.91		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.86		ppb v/v		93	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.02		ppb v/v		101	60 - 140
Acetone	2.00	1.26	J	ppb v/v		63	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.09		ppb v/v		104	70 - 130
Bromodichloromethane	2.00	2.18		ppb v/v		109	70 - 130
Bromoform	2.00	2.07		ppb v/v		103	60 - 140
Bromomethane	2.00	1.92		ppb v/v		96	70 - 130
Carbon disulfide	2.00	2.01		ppb v/v		100	70 - 130
Carbon tetrachloride	2.00	2.13		ppb v/v		106	70 - 130
Chlorobenzene	2.00	2.03		ppb v/v		102	70 - 130
Chloroethane	2.00	1.93		ppb v/v		97	70 - 130
Chloroform	2.00	2.02		ppb v/v		101	70 - 130
Chloromethane	2.00	1.97		ppb v/v		98	60 - 140
cis-1,2-Dichloroethene	2.00	2.08		ppb v/v		104	70 - 130
cis-1,3-Dichloropropene	2.00	1.98		ppb v/v		99	70 - 130
Cyclohexane	2.00	2.07		ppb v/v		103	70 - 130
Dibromochloromethane	2.00	2.20		ppb v/v		110	70 - 130
Dichlorodifluoromethane	2.00	2.05		ppb v/v		103	60 - 140
Ethanol	10.0	9.88		ppb v/v		99	20 - 180
Ethylbenzene	2.00	2.22		ppb v/v		111	70 - 130
Heptane	2.00	2.11		ppb v/v		105	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.71		ppb v/v		85	60 - 140
Hexane	2.00	1.78		ppb v/v		89	70 - 130
Indane	2.00	2.20		ppb v/v		110	20 - 180
Indene	2.00	2.28		ppb v/v		114	20 - 180
Isopropyl alcohol	2.00	1.89		ppb v/v		94	60 - 140
Methyl tert-butyl ether	2.00	2.09		ppb v/v		104	60 - 140
Methylene Chloride	2.00	2.12		ppb v/v		106	70 - 130
m-Xylene & p-Xylene	4.00	4.28		ppb v/v		107	70 - 130
Naphthalene	2.00	1.93		ppb v/v		96	40 - 140
o-Xylene	2.00	2.19		ppb v/v		110	70 - 130
Propene	2.00	1.90		ppb v/v		95	60 - 140
Styrene	2.00	2.29		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.17		ppb v/v		109	70 - 130
Tetrahydrofuran	2.00	2.01		ppb v/v		100	60 - 140
Thiophene	2.00	2.13		ppb v/v		106	20 - 180
Toluene	2.00	2.16		ppb v/v		108	70 - 130
trans-1,2-Dichloroethene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	2.00	2.12		ppb v/v		106	70 - 130
Trichloroethene	2.00	2.14		ppb v/v		107	70 - 130
Trichlorofluoromethane	2.00	2.03		ppb v/v		101	60 - 140
Vinyl chloride	2.00	1.99		ppb v/v		99	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.9		ug/m3		100	70 - 130
1,1,2,2-Tetrachloroethane	14	15.2		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.2		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	11.3		ug/m3		104	70 - 130
1,1-Dichloroethane	8.1	8.07		ug/m3		100	70 - 130
1,1-Dichloroethene	7.9	9.07		ug/m3		114	70 - 130
1,2,4-Trichlorobenzene	15	14.3		ug/m3		96	60 - 140
1,2,4-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,2-Dibromoethane (EDB)	15	16.0		ug/m3		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	14.9		ug/m3		106	60 - 140
1,2-Dichlorobenzene	12	11.8		ug/m3		98	70 - 130
1,2-Dichloroethane	8.1	8.80		ug/m3		109	70 - 130
1,2-Dichloropropane	9.2	9.20		ug/m3		100	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Butadiene	4.4	4.53		ug/m3		102	60 - 140
1,3-Dichlorobenzene	12	11.7		ug/m3		97	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		97	70 - 130
1,4-Dioxane	7.2	7.11		ug/m3		99	60 - 140
2,2,4-Trimethylpentane	9.3	9.72		ug/m3		104	70 - 130
2,3-Dimethylpentane	8.2	8.30		ug/m3		101	20 - 180
2-Butanone (MEK)	5.9	5.79		ug/m3		98	60 - 140
2-Hexanone	8.2	8.62		ug/m3		105	60 - 140
2-Methylbutane	5.9	5.64		ug/m3		96	70 - 130
2-Methylpentane	7.1	6.57		ug/m3		93	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.0		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	8.26		ug/m3		101	60 - 140
Acetone	4.8	2.99	J	ug/m3		63	60 - 140
Benzene	6.4	6.65		ug/m3		104	70 - 130
Benzyl chloride	10	10.8		ug/m3		104	70 - 130
Bromodichloromethane	13	14.6		ug/m3		109	70 - 130
Bromoform	21	21.4		ug/m3		103	60 - 140
Bromomethane	7.8	7.45		ug/m3		96	70 - 130
Carbon disulfide	6.2	6.25		ug/m3		100	70 - 130
Carbon tetrachloride	13	13.4		ug/m3		106	70 - 130
Chlorobenzene	9.2	9.37		ug/m3		102	70 - 130
Chloroethane	5.3	5.10		ug/m3		97	70 - 130
Chloroform	9.8	9.86		ug/m3		101	70 - 130
Chloromethane	4.1	4.06		ug/m3		98	60 - 140
cis-1,2-Dichloroethene	7.9	8.24		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	9.1	9.00		ug/m3		99	70 - 130
Cyclohexane	6.9	7.11		ug/m3		103	70 - 130
Dibromochloromethane	17	18.8		ug/m3		110	70 - 130
Dichlorodifluoromethane	9.9	10.2		ug/m3		103	60 - 140
Ethanol	19	18.6		ug/m3		99	20 - 180
Ethylbenzene	8.7	9.62		ug/m3		111	70 - 130
Heptane	8.2	8.64		ug/m3		105	70 - 130
Hexachlorobutadiene	21	18.2		ug/m3		85	60 - 140
Hexane	7.1	6.27		ug/m3		89	70 - 130
Indane	9.7	10.6		ug/m3		110	20 - 180
Indene	9.5	10.8		ug/m3		114	20 - 180
Isopropyl alcohol	4.9	4.64		ug/m3		94	60 - 140
Methyl tert-butyl ether	7.2	7.52		ug/m3		104	60 - 140
Methylene Chloride	7.0	7.35		ug/m3		106	70 - 130
m-Xylene & p-Xylene	17	18.6		ug/m3		107	70 - 130
Naphthalene	10	10.1		ug/m3		96	40 - 140
o-Xylene	8.7	9.52		ug/m3		110	70 - 130
Propene	3.4	3.27		ug/m3		95	60 - 140
Styrene	8.5	9.76		ug/m3		115	70 - 130
Tetrachloroethene	14	14.7		ug/m3		109	70 - 130
Tetrahydrofuran	5.9	5.93		ug/m3		100	60 - 140
Thiophene	6.9	7.32		ug/m3		106	20 - 180
Toluene	7.5	8.16		ug/m3		108	70 - 130
trans-1,2-Dichloroethene	7.9	7.45		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	9.1	9.64		ug/m3		106	70 - 130
Trichloroethene	11	11.5		ug/m3		107	70 - 130
Trichlorofluoromethane	11	11.4		ug/m3		101	60 - 140
Vinyl chloride	5.1	5.09		ug/m3		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004
Matrix: Air
Analysis Batch: 976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 13:17	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/19/14 13:17	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 13:17	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 13:17	1
Acetone	ND		5.0	1.4	ppb v/v			03/19/14 13:17	1
Benzene	ND		0.20	0.056	ppb v/v			03/19/14 13:17	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 13:17	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 13:17	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 13:17	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 13:17	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 13:17	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Ethanol	ND		2.0	2.0	ppb v/v			03/19/14 13:17	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Heptane	ND		0.50	0.047	ppb v/v			03/19/14 13:17	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 13:17	1
Hexane	ND		0.50	0.032	ppb v/v			03/19/14 13:17	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004
Matrix: Air
Analysis Batch: 976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 13:17	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/19/14 13:17	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 13:17	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 13:17	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 13:17	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 13:17	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 13:17	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 13:17	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Toluene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 13:17	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/19/14 13:17	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 13:17	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 13:17	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 13:17	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 13:17	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/19/14 13:17	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 13:17	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/19/14 13:17	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 13:17	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 13:17	1
Acetone	ND		12	3.3	ug/m3			03/19/14 13:17	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004
Matrix: Air
Analysis Batch: 976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/19/14 13:17	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 13:17	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 13:17	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 13:17	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 13:17	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 13:17	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/19/14 13:17	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 13:17	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 13:17	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 13:17	1
Chloromethane	ND		1.0	0.33	ug/m3			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 13:17	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 13:17	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/19/14 13:17	1
Ethanol	ND		3.8	3.8	ug/m3			03/19/14 13:17	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 13:17	1
Heptane	ND		2.0	0.19	ug/m3			03/19/14 13:17	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 13:17	1
Hexane	ND		1.8	0.11	ug/m3			03/19/14 13:17	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 13:17	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 13:17	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/19/14 13:17	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 13:17	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/19/14 13:17	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 13:17	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 13:17	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 13:17	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 13:17	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 13:17	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 13:17	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 13:17	1
Toluene	ND		0.75	0.45	ug/m3			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 13:17	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 13:17	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/19/14 13:17	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/19/14 13:17*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002
Matrix: Air
Analysis Batch: 976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.36		ppb v/v		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34		ppb v/v		117	70 - 130
1,1,2-Trichloroethane	2.00	2.19		ppb v/v		109	70 - 130
1,1-Dichloroethane	2.00	2.05		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.37		ppb v/v		118	70 - 130
1,2,4-Trichlorobenzene	2.00	2.03		ppb v/v		101	60 - 140
1,2,4-Trimethylbenzene	2.00	2.38		ppb v/v		119	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23		ppb v/v		112	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,2-Dichloropropane	2.00	2.08		ppb v/v		104	70 - 130
1,3,5-Trimethylbenzene	2.00	2.37		ppb v/v		118	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,4-Dichlorobenzene	2.00	2.07		ppb v/v		104	70 - 130
1,4-Dioxane	2.00	2.14		ppb v/v		107	60 - 140
2,2,4-Trimethylpentane	2.00	2.13		ppb v/v		107	70 - 130
2,3-Dimethylpentane	2.00	2.10		ppb v/v		105	20 - 180
2-Butanone (MEK)	2.00	2.15		ppb v/v		107	60 - 140
2-Hexanone	2.00	2.27		ppb v/v		113	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.95		ppb v/v		97	20 - 180
4-Ethyltoluene	2.00	2.43		ppb v/v		122	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.23		ppb v/v		112	60 - 140
Acetone	2.00	1.42	J	ppb v/v		71	60 - 140
Benzene	2.00	2.02		ppb v/v		101	70 - 130
Benzyl chloride	2.00	2.19		ppb v/v		110	70 - 130
Bromodichloromethane	2.00	2.20		ppb v/v		110	70 - 130
Bromoform	2.00	2.18		ppb v/v		109	60 - 140
Bromomethane	2.00	1.97		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.06		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.15		ppb v/v		108	70 - 130
Chlorobenzene	2.00	2.12		ppb v/v		106	70 - 130
Chloroethane	2.00	1.94		ppb v/v		97	70 - 130
Chloroform	2.00	2.05		ppb v/v		102	70 - 130
Chloromethane	2.00	2.05		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	2.15		ppb v/v		107	70 - 130
cis-1,3-Dichloropropene	2.00	2.07		ppb v/v		103	70 - 130
Cyclohexane	2.00	2.16		ppb v/v		108	70 - 130
Dibromochloromethane	2.00	2.18		ppb v/v		109	70 - 130
Dichlorodifluoromethane	2.00	2.16		ppb v/v		108	60 - 140
Ethanol	10.0	10.6		ppb v/v		106	20 - 180
Ethylbenzene	2.00	2.41		ppb v/v		121	70 - 130
Heptane	2.00	2.16		ppb v/v		108	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002
Matrix: Air
Analysis Batch: 976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.81		ppb v/v		91	60 - 140
Hexane	2.00	1.84		ppb v/v		92	70 - 130
Indane	2.00	2.35		ppb v/v		118	20 - 180
Indene	2.00	2.42		ppb v/v		121	20 - 180
Isopropyl alcohol	2.00	1.99		ppb v/v		100	60 - 140
Methyl tert-butyl ether	2.00	2.26		ppb v/v		113	60 - 140
Methylene Chloride	2.00	2.20		ppb v/v		110	70 - 130
m-Xylene & p-Xylene	4.00	4.65		ppb v/v		116	70 - 130
Naphthalene	2.00	2.05		ppb v/v		102	40 - 140
o-Xylene	2.00	2.36		ppb v/v		118	70 - 130
Propene	2.00	2.03		ppb v/v		101	60 - 140
Styrene	2.00	2.40		ppb v/v		120	70 - 130
Tetrachloroethene	2.00	2.19		ppb v/v		110	70 - 130
Tetrahydrofuran	2.00	2.20		ppb v/v		110	60 - 140
Thiophene	2.00	2.11		ppb v/v		105	20 - 180
Toluene	2.00	2.29		ppb v/v		114	70 - 130
trans-1,2-Dichloroethene	2.00	1.96		ppb v/v		98	70 - 130
trans-1,3-Dichloropropene	2.00	2.25		ppb v/v		113	70 - 130
Trichloroethene	2.00	2.21		ppb v/v		111	70 - 130
Trichlorofluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Vinyl chloride	2.00	2.05		ppb v/v		102	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.1		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	16.2		ug/m3		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.9		ug/m3		117	70 - 130
1,1,2-Trichloroethane	11	11.9		ug/m3		109	70 - 130
1,1-Dichloroethane	8.1	8.29		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	9.39		ug/m3		118	70 - 130
1,2,4-Trichlorobenzene	15	15.0		ug/m3		101	60 - 140
1,2,4-Trimethylbenzene	9.8	11.7		ug/m3		119	70 - 130
1,2-Dibromoethane (EDB)	15	16.9		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.6		ug/m3		112	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	8.49		ug/m3		105	70 - 130
1,2-Dichloropropane	9.2	9.59		ug/m3		104	70 - 130
1,3,5-Trimethylbenzene	9.8	11.7		ug/m3		118	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dioxane	7.2	7.71		ug/m3		107	60 - 140
2,2,4-Trimethylpentane	9.3	9.97		ug/m3		107	70 - 130
2,3-Dimethylpentane	8.2	8.60		ug/m3		105	20 - 180
2-Butanone (MEK)	5.9	6.33		ug/m3		107	60 - 140
2-Hexanone	8.2	9.30		ug/m3		113	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.87		ug/m3		97	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002
Matrix: Air
Analysis Batch: 976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	12.0		ug/m3		122	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	9.15		ug/m3		112	60 - 140
Acetone	4.8	3.37	J	ug/m3		71	60 - 140
Benzene	6.4	6.45		ug/m3		101	70 - 130
Benzyl chloride	10	11.4		ug/m3		110	70 - 130
Bromodichloromethane	13	14.7		ug/m3		110	70 - 130
Bromoform	21	22.5		ug/m3		109	60 - 140
Bromomethane	7.8	7.66		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.43		ug/m3		103	70 - 130
Carbon tetrachloride	13	13.5		ug/m3		108	70 - 130
Chlorobenzene	9.2	9.77		ug/m3		106	70 - 130
Chloroethane	5.3	5.11		ug/m3		97	70 - 130
Chloroform	9.8	10.0		ug/m3		102	70 - 130
Chloromethane	4.1	4.23		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	8.52		ug/m3		107	70 - 130
cis-1,3-Dichloropropene	9.1	9.39		ug/m3		103	70 - 130
Cyclohexane	6.9	7.43		ug/m3		108	70 - 130
Dibromochloromethane	17	18.6		ug/m3		109	70 - 130
Dichlorodifluoromethane	9.9	10.7		ug/m3		108	60 - 140
Ethanol	19	20.0		ug/m3		106	20 - 180
Ethylbenzene	8.7	10.5		ug/m3		121	70 - 130
Heptane	8.2	8.86		ug/m3		108	70 - 130
Hexachlorobutadiene	21	19.3		ug/m3		91	60 - 140
Hexane	7.1	6.48		ug/m3		92	70 - 130
Indane	9.7	11.4		ug/m3		118	20 - 180
Indene	9.5	11.5		ug/m3		121	20 - 180
Isopropyl alcohol	4.9	4.90		ug/m3		100	60 - 140
Methyl tert-butyl ether	7.2	8.15		ug/m3		113	60 - 140
Methylene Chloride	7.0	7.64		ug/m3		110	70 - 130
m-Xylene & p-Xylene	17	20.2		ug/m3		116	70 - 130
Naphthalene	10	10.7		ug/m3		102	40 - 140
o-Xylene	8.7	10.2		ug/m3		118	70 - 130
Propene	3.4	3.49		ug/m3		101	60 - 140
Styrene	8.5	10.2		ug/m3		120	70 - 130
Tetrachloroethene	14	14.9		ug/m3		110	70 - 130
Tetrahydrofuran	5.9	6.50		ug/m3		110	60 - 140
Thiophene	6.9	7.25		ug/m3		105	20 - 180
Toluene	7.5	8.62		ug/m3		114	70 - 130
trans-1,2-Dichloroethene	7.9	7.79		ug/m3		98	70 - 130
trans-1,3-Dichloropropene	9.1	10.2		ug/m3		113	70 - 130
Trichloroethene	11	11.9		ug/m3		111	70 - 130
Trichlorofluoromethane	11	11.8		ug/m3		105	60 - 140
Vinyl chloride	5.1	5.23		ug/m3		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 14:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 14:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 14:39	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 14:39	1
Acetone	ND		5.0	1.4	ppb v/v			03/21/14 14:39	1
Benzene	ND		0.20	0.056	ppb v/v			03/21/14 14:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 14:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 14:39	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 14:39	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 14:39	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 14:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Ethanol	ND		2.0	2.0	ppb v/v			03/21/14 14:39	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 14:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 14:39	1
Hexane	ND		0.50	0.032	ppb v/v			03/21/14 14:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 14:39	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/21/14 14:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 14:39	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 14:39	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
Propene	ND		0.50	0.077	ppb v/v			03/21/14 14:39	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 14:39	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 14:39	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 14:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Toluene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 14:39	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/21/14 14:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 14:39	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 14:39	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 14:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 14:39	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 14:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 14:39	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/21/14 14:39	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 14:39	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 14:39	1
Acetone	ND		12	3.3	ug/m3			03/21/14 14:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5
Matrix: Air
Analysis Batch: 984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/21/14 14:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 14:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 14:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 14:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 14:39	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 14:39	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/21/14 14:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 14:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 14:39	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 14:39	1
Chloromethane	ND		1.0	0.33	ug/m3			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 14:39	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 14:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/21/14 14:39	1
Ethanol	ND		3.8	3.8	ug/m3			03/21/14 14:39	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 14:39	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 14:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 14:39	1
Hexane	ND		1.8	0.11	ug/m3			03/21/14 14:39	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 14:39	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 14:39	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/21/14 14:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 14:39	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 14:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 14:39	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 14:39	1
Propene	ND		0.86	0.13	ug/m3			03/21/14 14:39	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 14:39	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 14:39	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 14:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 14:39	1
Toluene	ND		0.75	0.45	ug/m3			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 14:39	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 14:39	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/21/14 14:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/21/14 14:39*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/24/14 11:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/24/14 11:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/24/14 11:45	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/24/14 11:45	1
Acetone	ND		5.0	1.4	ppb v/v			03/24/14 11:45	1
Benzene	ND		0.20	0.056	ppb v/v			03/24/14 11:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/24/14 11:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/24/14 11:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/24/14 11:45	1
Chloroform	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/24/14 11:45	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/24/14 11:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Ethanol	ND		2.0	2.0	ppb v/v			03/24/14 11:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Heptane	ND		0.50	0.047	ppb v/v			03/24/14 11:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/24/14 11:45	1
Hexane	ND		0.50	0.032	ppb v/v			03/24/14 11:45	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Indene	ND		0.40	0.40	ppb v/v			03/24/14 11:45	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/24/14 11:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/24/14 11:45	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/24/14 11:45	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
Propene	ND		0.50	0.077	ppb v/v			03/24/14 11:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/24/14 11:45	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/24/14 11:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/24/14 11:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Toluene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/24/14 11:45	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/24/14 11:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/24/14 11:45	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/24/14 11:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/24/14 11:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/24/14 11:45	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/24/14 11:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/24/14 11:45	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/24/14 11:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/24/14 11:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/24/14 11:45	1
Acetone	ND		12	3.3	ug/m3			03/24/14 11:45	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005
Matrix: Air
Analysis Batch: 990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.64	0.18	ug/m3			03/24/14 11:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/24/14 11:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/24/14 11:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/24/14 11:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/24/14 11:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/24/14 11:45	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/24/14 11:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/24/14 11:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/24/14 11:45	1
Chloroform	ND		0.98	0.19	ug/m3			03/24/14 11:45	1
Chloromethane	ND		1.0	0.33	ug/m3			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/24/14 11:45	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/24/14 11:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/24/14 11:45	1
Ethanol	ND		3.8	3.8	ug/m3			03/24/14 11:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/24/14 11:45	1
Heptane	ND		2.0	0.19	ug/m3			03/24/14 11:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/24/14 11:45	1
Hexane	ND		1.8	0.11	ug/m3			03/24/14 11:45	1
Indane	ND		0.97	0.97	ug/m3			03/24/14 11:45	1
Indene	ND		1.9	1.9	ug/m3			03/24/14 11:45	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/24/14 11:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/24/14 11:45	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/24/14 11:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/24/14 11:45	1
o-Xylene	ND		0.87	0.26	ug/m3			03/24/14 11:45	1
Propene	ND		0.86	0.13	ug/m3			03/24/14 11:45	1
Styrene	ND		0.85	0.25	ug/m3			03/24/14 11:45	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/24/14 11:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/24/14 11:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/24/14 11:45	1
Toluene	ND		0.75	0.45	ug/m3			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/24/14 11:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/24/14 11:45	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/24/14 11:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/24/14 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/24/14 11:45*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.11		ppb v/v		105	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19		ppb v/v		110	70 - 130
1,1,2-Trichloroethane	2.00	1.87		ppb v/v		94	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		86	70 - 130
1,1-Dichloroethene	2.00	2.02		ppb v/v		101	70 - 130
1,2,4-Trichlorobenzene	2.00	2.49		ppb v/v		124	60 - 140
1,2,4-Trimethylbenzene	2.00	2.50		ppb v/v		125	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59		ppb v/v		129	60 - 140
1,2-Dichlorobenzene	2.00	2.52		ppb v/v		126	70 - 130
1,2-Dichloroethane	2.00	1.93		ppb v/v		96	70 - 130
1,2-Dichloropropane	2.00	1.65		ppb v/v		82	70 - 130
1,3,5-Trimethylbenzene	2.00	2.33		ppb v/v		116	70 - 130
1,3-Butadiene	2.00	1.93		ppb v/v		97	60 - 140
1,3-Dichlorobenzene	2.00	2.50		ppb v/v		125	70 - 130
1,4-Dichlorobenzene	2.00	2.47		ppb v/v		123	70 - 130
1,4-Dioxane	2.00	1.49		ppb v/v		75	60 - 140
2,2,4-Trimethylpentane	2.00	1.42		ppb v/v		71	70 - 130
2,3-Dimethylpentane	2.00	1.63		ppb v/v		82	20 - 180
2-Butanone (MEK)	2.00	1.47		ppb v/v		73	60 - 140
2-Hexanone	2.00	1.41		ppb v/v		70	60 - 140
2-Methylbutane	2.00	1.88		ppb v/v		94	70 - 130
2-Methylpentane	2.00	1.24		ppb v/v		62	20 - 180
4-Ethyltoluene	2.00	2.31		ppb v/v		116	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.15	*	ppb v/v		58	60 - 140
Acetone	2.00	1.82	J	ppb v/v		91	60 - 140
Benzene	2.00	1.80		ppb v/v		90	70 - 130
Benzyl chloride	2.00	2.40		ppb v/v		120	70 - 130
Bromodichloromethane	2.00	1.99		ppb v/v		99	70 - 130
Bromoform	2.00	2.76		ppb v/v		138	60 - 140
Bromomethane	2.00	2.33		ppb v/v		116	70 - 130
Carbon disulfide	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.36		ppb v/v		118	70 - 130
Chlorobenzene	2.00	2.17		ppb v/v		109	70 - 130
Chloroethane	2.00	2.15		ppb v/v		107	70 - 130
Chloroform	2.00	1.95		ppb v/v		98	70 - 130
Chloromethane	2.00	1.78		ppb v/v		89	60 - 140
cis-1,2-Dichloroethene	2.00	1.82		ppb v/v		91	70 - 130
cis-1,3-Dichloropropene	2.00	1.87		ppb v/v		94	70 - 130
Cyclohexane	2.00	1.62		ppb v/v		81	70 - 130
Dibromochloromethane	2.00	2.34		ppb v/v		117	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	8.52		ppb v/v		85	20 - 180
Ethylbenzene	2.00	2.07		ppb v/v		104	70 - 130
Heptane	2.00	1.64		ppb v/v		82	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.94	*	ppb v/v		147	60 - 140
Hexane	2.00	1.45		ppb v/v		73	70 - 130
Indane	2.00	2.40		ppb v/v		120	20 - 180
Indene	2.00	2.51		ppb v/v		126	20 - 180
Isopropyl alcohol	2.00	1.79		ppb v/v		90	60 - 140
Methyl tert-butyl ether	2.00	1.99		ppb v/v		100	60 - 140
Methylene Chloride	2.00	1.92		ppb v/v		96	70 - 130
m-Xylene & p-Xylene	4.00	4.51		ppb v/v		113	70 - 130
Naphthalene	2.00	2.46		ppb v/v		123	40 - 140
o-Xylene	2.00	2.15		ppb v/v		107	70 - 130
Propene	2.00	1.34		ppb v/v		67	60 - 140
Styrene	2.00	2.31		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.03		ppb v/v		102	70 - 130
Tetrahydrofuran	2.00	1.23		ppb v/v		61	60 - 140
Thiophene	2.00	1.78		ppb v/v		89	20 - 180
Toluene	2.00	1.95		ppb v/v		98	70 - 130
trans-1,2-Dichloroethene	2.00	1.93		ppb v/v		96	70 - 130
trans-1,3-Dichloropropene	2.00	1.86		ppb v/v		93	70 - 130
Trichloroethene	2.00	1.91		ppb v/v		96	70 - 130
Trichlorofluoromethane	2.00	2.60		ppb v/v		130	60 - 140
Vinyl chloride	2.00	2.12		ppb v/v		106	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.5		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	14	14.0		ug/m3		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	16.8		ug/m3		110	70 - 130
1,1,2-Trichloroethane	11	10.2		ug/m3		94	70 - 130
1,1-Dichloroethane	8.1	6.98		ug/m3		86	70 - 130
1,1-Dichloroethene	7.9	8.02		ug/m3		101	70 - 130
1,2,4-Trichlorobenzene	15	18.5		ug/m3		124	60 - 140
1,2,4-Trimethylbenzene	9.8	12.3		ug/m3		125	70 - 130
1,2-Dibromoethane (EDB)	15	15.8		ug/m3		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.1		ug/m3		129	60 - 140
1,2-Dichlorobenzene	12	15.2		ug/m3		126	70 - 130
1,2-Dichloroethane	8.1	7.81		ug/m3		96	70 - 130
1,2-Dichloropropane	9.2	7.61		ug/m3		82	70 - 130
1,3,5-Trimethylbenzene	9.8	11.4		ug/m3		116	70 - 130
1,3-Butadiene	4.4	4.27		ug/m3		97	60 - 140
1,3-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,4-Dichlorobenzene	12	14.8		ug/m3		123	70 - 130
1,4-Dioxane	7.2	5.38		ug/m3		75	60 - 140
2,2,4-Trimethylpentane	9.3	6.61		ug/m3		71	70 - 130
2,3-Dimethylpentane	8.2	6.69		ug/m3		82	20 - 180
2-Butanone (MEK)	5.9	4.33		ug/m3		73	60 - 140
2-Hexanone	8.2	5.76		ug/m3		70	60 - 140
2-Methylbutane	5.9	5.55		ug/m3		94	70 - 130
2-Methylpentane	7.0	4.36		ug/m3		62	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.4		ug/m3		116	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	4.71	*	ug/m3		58	60 - 140
Acetone	4.8	4.33	J	ug/m3		91	60 - 140
Benzene	6.4	5.77		ug/m3		90	70 - 130
Benzyl chloride	10	12.4		ug/m3		120	70 - 130
Bromodichloromethane	13	13.3		ug/m3		99	70 - 130
Bromoform	21	28.5		ug/m3		138	60 - 140
Bromomethane	7.8	9.04		ug/m3		116	70 - 130
Carbon disulfide	6.2	5.69		ug/m3		91	70 - 130
Carbon tetrachloride	13	14.8		ug/m3		118	70 - 130
Chlorobenzene	9.2	10.0		ug/m3		109	70 - 130
Chloroethane	5.3	5.67		ug/m3		107	70 - 130
Chloroform	9.8	9.54		ug/m3		98	70 - 130
Chloromethane	4.1	3.68		ug/m3		89	60 - 140
cis-1,2-Dichloroethene	7.9	7.21		ug/m3		91	70 - 130
cis-1,3-Dichloropropene	9.1	8.51		ug/m3		94	70 - 130
Cyclohexane	6.9	5.59		ug/m3		81	70 - 130
Dibromochloromethane	17	19.9		ug/m3		117	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	16.0		ug/m3		85	20 - 180
Ethylbenzene	8.7	9.00		ug/m3		104	70 - 130
Heptane	8.2	6.70		ug/m3		82	70 - 130
Hexachlorobutadiene	21	31.3	*	ug/m3		147	60 - 140
Hexane	7.0	5.12		ug/m3		73	70 - 130
Indane	9.7	11.6		ug/m3		120	20 - 180
Indene	9.5	11.9		ug/m3		126	20 - 180
Isopropyl alcohol	4.9	4.40		ug/m3		90	60 - 140
Methyl tert-butyl ether	7.2	7.19		ug/m3		100	60 - 140
Methylene Chloride	6.9	6.68		ug/m3		96	70 - 130
m-Xylene & p-Xylene	17	19.6		ug/m3		113	70 - 130
Naphthalene	10	12.9		ug/m3		123	40 - 140
o-Xylene	8.7	9.32		ug/m3		107	70 - 130
Propene	3.4	2.30		ug/m3		67	60 - 140
Styrene	8.5	9.83		ug/m3		115	70 - 130
Tetrachloroethene	14	13.8		ug/m3		102	70 - 130
Tetrahydrofuran	5.9	3.61		ug/m3		61	60 - 140
Thiophene	6.9	6.13		ug/m3		89	20 - 180
Toluene	7.5	7.36		ug/m3		98	70 - 130
trans-1,2-Dichloroethene	7.9	7.65		ug/m3		96	70 - 130
trans-1,3-Dichloropropene	9.1	8.44		ug/m3		93	70 - 130
Trichloroethene	11	10.3		ug/m3		96	70 - 130
Trichlorofluoromethane	11	14.6		ug/m3		130	60 - 140
Vinyl chloride	5.1	5.42		ug/m3		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*

Air - GC/MS VOA

Analysis Batch: 971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-2	IA5-E14	Total/NA	Air	TO-15	
140-1063-3	IA6-E14	Total/NA	Air	TO-15	
140-1063-4	IA7-E14	Total/NA	Air	TO-15	
140-1063-5	AMB-2	Total/NA	Air	TO-15	
140-1063-6	AMB-4	Total/NA	Air	TO-15	
140-1063-8	PCV-IA2-B7	Total/NA	Air	TO-15	
140-1063-9	PCV-IA3-B7	Total/NA	Air	TO-15	
140-1063-10	PCV-IA1-B11	Total/NA	Air	TO-15	
140-1063-11	PCV-IA2-B11	Total/NA	Air	TO-15	
140-1063-12	PCV-IA3-B11	Total/NA	Air	TO-15	
140-1063-13	IA1-E14	Total/NA	Air	TO-15	
140-1063-14	IA2-E14	Total/NA	Air	TO-15	
140-1063-15	IA3-E14	Total/NA	Air	TO-15	
140-1063-16	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-17	PCV-IA2-B5	Total/NA	Air	TO-15	
LCS 140-971/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-971/9	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-1	IA4-E14	Total/NA	Air	TO-15	
140-1063-16 - DL	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-19	AMB-1	Total/NA	Air	TO-15	
140-1063-20	AMB-3	Total/NA	Air	TO-15	
140-1063-21	IA1-E19	Total/NA	Air	TO-15	
140-1063-22	IA2-E19	Total/NA	Air	TO-15	
140-1063-23	IA1-E17	Total/NA	Air	TO-15	
140-1063-24	IA1FD-E17	Total/NA	Air	TO-15	
140-1063-25	IA2-E17	Total/NA	Air	TO-15	
LCS 140-976/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-976/1004	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-18	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-17 - DL	PCV-IA2-B5	Total/NA	Air	TO-15	
140-1063-18 - DL	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-990/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-990/1005	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: IA4-E14
Date Collected: 03/13/14 17:12
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.43	286 mL	500 mL	976	03/19/14 16:52	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA5-E14
Date Collected: 03/13/14 16:40
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 23:43	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA6-E14
Date Collected: 03/13/14 16:45
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 00:36	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA7-E14
Date Collected: 03/13/14 15:52
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 01:31	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMB-2
Date Collected: 03/13/14 16:48
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 02:25	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMB-4
Date Collected: 03/13/14 16:49
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 03:20	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 04:13	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Date Collected: 03/12/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 05:07	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

Date Collected: 03/12/14 16:34

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 06:01	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Date Collected: 03/12/14 16:32

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 06:56	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.64	328 mL	500 mL	971	03/19/14 07:51	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 08:44	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 19:12	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.84	368 mL	500 mL	971	03/18/14 20:05	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 21:00	AFB	TAL KNX
	Instrument ID: MJ									
Total/NA	Analysis	TO-15	DL	1	11 mL	500 mL	976	03/20/14 07:15	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	11 mL	500 mL	990	03/24/14 13:17	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 09:39	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	20 mL	500 mL	990	03/24/14 14:38	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 15:32	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMB-1 — **Lab Sample ID: 140-1063-19**
Date Collected: 03/13/14 16:25 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 19:31	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMB-3 — **Lab Sample ID: 140-1063-20**
Date Collected: 03/13/14 17:06 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 20:25	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA1-E19 — **Lab Sample ID: 140-1063-21**
Date Collected: 03/13/14 16:18 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 21:18	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA2-E19 — **Lab Sample ID: 140-1063-22**
Date Collected: 03/13/14 17:05 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 22:12	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA1-E17 — **Lab Sample ID: 140-1063-23**
Date Collected: 03/13/14 15:17 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 23:06	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: IA1FD-E17 — **Lab Sample ID: 140-1063-24**
Date Collected: 03/13/14 16:45 — **Matrix: Air**
Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 00:01	AFB	TAL KNX
	Instrument ID: MJ									

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17
Date Collected: 03/13/14 16:10
Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-25
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 01:49	AFB	TAL KNX
	Instrument ID: MJ									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1063-1	IA4-E14	Air	03/13/14 17:12	03/17/14 11:15
140-1063-2	IA5-E14	Air	03/13/14 16:40	03/17/14 11:15
140-1063-3	IA6-E14	Air	03/13/14 16:45	03/17/14 11:15
140-1063-4	IA7-E14	Air	03/13/14 15:52	03/17/14 11:15
140-1063-5	AMB-2	Air	03/13/14 16:48	03/17/14 11:15
140-1063-6	AMB-4	Air	03/13/14 16:49	03/17/14 11:15
140-1063-8	PCV-IA2-B7	Air	03/12/14 16:00	03/17/14 11:15
140-1063-9	PCV-IA3-B7	Air	03/12/14 16:10	03/17/14 11:15
140-1063-10	PCV-IA1-B11	Air	03/12/14 16:34	03/17/14 11:15
140-1063-11	PCV-IA2-B11	Air	03/12/14 16:32	03/17/14 11:15
140-1063-12	PCV-IA3-B11	Air	03/12/14 16:30	03/17/14 11:15
140-1063-13	IA1-E14	Air	03/13/14 16:04	03/17/14 11:15
140-1063-14	IA2-E14	Air	03/13/14 16:53	03/17/14 11:15
140-1063-15	IA3-E14	Air	03/13/14 16:52	03/17/14 11:15
140-1063-16	PCV-IA1-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-17	PCV-IA2-B5	Air	03/12/14 15:56	03/17/14 11:15
140-1063-18	PCV-IAPC-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-19	AMB-1	Air	03/13/14 16:25	03/17/14 11:15
140-1063-20	AMB-3	Air	03/13/14 17:06	03/17/14 11:15
140-1063-21	IA1-E19	Air	03/13/14 16:18	03/17/14 11:15
140-1063-22	IA2-E19	Air	03/13/14 17:05	03/17/14 11:15
140-1063-23	IA1-E17	Air	03/13/14 15:17	03/17/14 11:15
140-1063-24	IA1FD-E17	Air	03/13/14 16:45	03/17/14 11:15
140-1063-25	IA2-E17	Air	03/13/14 16:10	03/17/14 11:15

Method TO15

Volatile Organic Compounds (GC/MS)
by Method TO15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
IA4-E14	140-1063-1	91
IA5-E14	140-1063-2	94
IA6-E14	140-1063-3	95
IA7-E14	140-1063-4	92
AMB-2	140-1063-5	90
AMB-4	140-1063-6	90
PCV-IA2-B7	140-1063-8	99
PCV-IA3-B7	140-1063-9	95
PCV-IA1-B11	140-1063-10	94
PCV-IA2-B11	140-1063-11	96
PCV-IA3-B11	140-1063-12	99
IA1-E14	140-1063-13	98
IA2-E14	140-1063-14	97
IA3-E14	140-1063-15	95
PCV-IA1-B5	140-1063-16	96
PCV-IA1-B5 DL	140-1063-16 DL	88
PCV-IA2-B5	140-1063-17	97
PCV-IA2-B5 DL	140-1063-17 DL	83
PCV-IAPC-B5	140-1063-18	96
PCV-IAPC-B5 DL	140-1063-18 DL	87
AMB-1	140-1063-19	92
AMB-3	140-1063-20	91
IA1-E19	140-1063-21	95
IA2-E19	140-1063-22	94
IA1-E17	140-1063-23	94
IA1FD-E17	140-1063-24	96
IA2-E17	140-1063-25	95
	MB 140-971/9	98
	MB 140-976/1004	93
	MB 140-984/5	93
	MB 140-990/1005	96
	LCS 140-971/1002	99
	LCS 140-976/1002	98
	LCS 140-984/1002	100
	LCS 140-990/1002	104

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC18-LCS.d

Lab ID: LCS 140-971/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.99	100	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24	112	70-130	
1,1,2-Trichloroethane	2.00	2.08	104	70-130	
1,1-Dichloroethane	2.00	1.99	100	70-130	
1,1-Dichloroethene	2.00	2.29	114	70-130	
1,2,4-Trichlorobenzene	2.00	1.92	96	60-140	
1,2,4-Trimethylbenzene	2.00	2.20	110	70-130	
1,2-Dibromoethane (EDB)	2.00	2.08	104	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13	106	60-140	
1,2-Dichlorobenzene	2.00	1.97	98	70-130	
1,2-Dichloroethane	2.00	2.18	109	70-130	
1,2-Dichloropropane	2.00	1.99	100	70-130	
1,3,5-Trimethylbenzene	2.00	2.20	110	70-130	
1,3-Butadiene	2.00	2.05	102	60-140	
1,3-Dichlorobenzene	2.00	1.95	97	70-130	
1,4-Dichlorobenzene	2.00	1.93	97	70-130	
1,4-Dioxane	2.00	1.97	99	60-140	
2,2,4-Trimethylpentane	2.00	2.08	104	70-130	
2,3-Dimethylpentane	2.00	2.03	101	20-180	
2-Butanone (MEK)	2.00	1.96	98	60-140	
2-Hexanone	2.00	2.10	105	60-140	
2-Methylbutane	2.00	1.91	96	70-130	
2-Methylpentane	2.00	1.86	93	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.02	101	60-140	
Acetone	2.00	1.26 J	63	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.09	104	70-130	
Bromodichloromethane	2.00	2.18	109	70-130	
Bromoform	2.00	2.07	103	60-140	
Bromomethane	2.00	1.92	96	70-130	
Carbon disulfide	2.00	2.01	100	70-130	
Carbon tetrachloride	2.00	2.13	106	70-130	
Chlorobenzene	2.00	2.03	102	70-130	
Chloroethane	2.00	1.93	97	70-130	
Chloroform	2.00	2.02	101	70-130	
Chloromethane	2.00	1.97	98	60-140	
cis-1,2-Dichloroethene	2.00	2.08	104	70-130	
cis-1,3-Dichloropropene	2.00	1.98	99	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC18-LCS.d

Lab ID: LCS 140-971/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.07	103	70-130	
Dibromochloromethane	2.00	2.20	110	70-130	
Dichlorodifluoromethane	2.00	2.05	103	60-140	
Ethanol	10.0	9.88	99	20-180	
Ethylbenzene	2.00	2.22	111	70-130	
Heptane	2.00	2.11	105	70-130	
Hexachlorobutadiene	2.00	1.71	85	60-140	
Hexane	2.00	1.78	89	70-130	
Indane	2.00	2.20	110	20-180	
Indene	2.00	2.28	114	20-180	
Isopropyl alcohol	2.00	1.89	94	60-140	
Methyl tert-butyl ether	2.00	2.09	104	60-140	
Methylene Chloride	2.00	2.12	106	70-130	
m-Xylene & p-Xylene	4.00	4.28	107	70-130	
Naphthalene	2.00	1.93	96	40-140	
o-Xylene	2.00	2.19	110	70-130	
Propene	2.00	1.90	95	60-140	
Styrene	2.00	2.29	115	70-130	
Tetrachloroethene	2.00	2.17	109	70-130	
Tetrahydrofuran	2.00	2.01	100	60-140	
Thiophene	2.00	2.13	106	20-180	
Toluene	2.00	2.16	108	70-130	
trans-1,2-Dichloroethene	2.00	1.88	94	70-130	
trans-1,3-Dichloropropene	2.00	2.12	106	70-130	
Trichloroethene	2.00	2.14	107	70-130	
Trichlorofluoromethane	2.00	2.03	101	60-140	
Vinyl chloride	2.00	1.99	99	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d

Lab ID: LCS 140-976/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.04	102	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.36	118	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34	117	70-130	
1,1,2-Trichloroethane	2.00	2.19	109	70-130	
1,1-Dichloroethane	2.00	2.05	102	70-130	
1,1-Dichloroethene	2.00	2.37	118	70-130	
1,2,4-Trichlorobenzene	2.00	2.03	101	60-140	
1,2,4-Trimethylbenzene	2.00	2.38	119	70-130	
1,2-Dibromoethane (EDB)	2.00	2.20	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23	112	60-140	
1,2-Dichlorobenzene	2.00	2.08	104	70-130	
1,2-Dichloroethane	2.00	2.10	105	70-130	
1,2-Dichloropropane	2.00	2.08	104	70-130	
1,3,5-Trimethylbenzene	2.00	2.37	118	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	2.08	104	70-130	
1,4-Dichlorobenzene	2.00	2.07	104	70-130	
1,4-Dioxane	2.00	2.14	107	60-140	
2,2,4-Trimethylpentane	2.00	2.13	107	70-130	
2,3-Dimethylpentane	2.00	2.10	105	20-180	
2-Butanone (MEK)	2.00	2.15	107	60-140	
2-Hexanone	2.00	2.27	113	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.95	97	20-180	
4-Ethyltoluene	2.00	2.43	122	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.23	112	60-140	
Acetone	2.00	1.42 J	71	60-140	
Benzene	2.00	2.02	101	70-130	
Benzyl chloride	2.00	2.19	110	70-130	
Bromodichloromethane	2.00	2.20	110	70-130	
Bromoform	2.00	2.18	109	60-140	
Bromomethane	2.00	1.97	99	70-130	
Carbon disulfide	2.00	2.06	103	70-130	
Carbon tetrachloride	2.00	2.15	108	70-130	
Chlorobenzene	2.00	2.12	106	70-130	
Chloroethane	2.00	1.94	97	70-130	
Chloroform	2.00	2.05	102	70-130	
Chloromethane	2.00	2.05	102	60-140	
cis-1,2-Dichloroethene	2.00	2.15	107	70-130	
cis-1,3-Dichloropropene	2.00	2.07	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d

Lab ID: LCS 140-976/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.16	108	70-130	
Dibromochloromethane	2.00	2.18	109	70-130	
Dichlorodifluoromethane	2.00	2.16	108	60-140	
Ethanol	10.0	10.6	106	20-180	
Ethylbenzene	2.00	2.41	121	70-130	
Heptane	2.00	2.16	108	70-130	
Hexachlorobutadiene	2.00	1.81	91	60-140	
Hexane	2.00	1.84	92	70-130	
Indane	2.00	2.35	118	20-180	
Indene	2.00	2.42	121	20-180	
Isopropyl alcohol	2.00	1.99	100	60-140	
Methyl tert-butyl ether	2.00	2.26	113	60-140	
Methylene Chloride	2.00	2.20	110	70-130	
m-Xylene & p-Xylene	4.00	4.65	116	70-130	
Naphthalene	2.00	2.05	102	40-140	
o-Xylene	2.00	2.36	118	70-130	
Propene	2.00	2.03	101	60-140	
Styrene	2.00	2.40	120	70-130	
Tetrachloroethene	2.00	2.19	110	70-130	
Tetrahydrofuran	2.00	2.20	110	60-140	
Thiophene	2.00	2.11	105	20-180	
Toluene	2.00	2.29	114	70-130	
trans-1,2-Dichloroethene	2.00	1.96	98	70-130	
trans-1,3-Dichloropropene	2.00	2.25	113	70-130	
Trichloroethene	2.00	2.21	111	70-130	
Trichlorofluoromethane	2.00	2.10	105	60-140	
Vinyl chloride	2.00	2.05	102	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d

Lab ID: LCS 140-984/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.82	91	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.73	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26	113	70-130	
1,1,2-Trichloroethane	2.00	1.68	84	70-130	
1,1-Dichloroethane	2.00	1.83	91	70-130	
1,1-Dichloroethene	2.00	2.30	115	70-130	
1,2,4-Trichlorobenzene	2.00	1.52	76	60-140	
1,2,4-Trimethylbenzene	2.00	1.72	86	70-130	
1,2-Dibromoethane (EDB)	2.00	1.69	85	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18	109	60-140	
1,2-Dichlorobenzene	2.00	1.51	76	70-130	
1,2-Dichloroethane	2.00	1.83	92	70-130	
1,2-Dichloropropane	2.00	1.66	83	70-130	
1,3,5-Trimethylbenzene	2.00	1.69	85	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	1.49	74	70-130	
1,4-Dichlorobenzene	2.00	1.47	73	70-130	
1,4-Dioxane	2.00	1.58	79	60-140	
2,2,4-Trimethylpentane	2.00	1.70	85	70-130	
2,3-Dimethylpentane	2.00	1.69	84	20-180	
2-Butanone (MEK)	2.00	1.71	85	60-140	
2-Hexanone	2.00	1.75	88	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.89	95	20-180	
4-Ethyltoluene	2.00	1.75	87	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.74	87	60-140	
Acetone	2.00	1.05 J	53	60-140	*
Benzene	2.00	1.76	88	70-130	
Benzyl chloride	2.00	1.59	80	70-130	
Bromodichloromethane	2.00	1.73	86	70-130	
Bromoform	2.00	1.62	81	60-140	
Bromomethane	2.00	1.98	99	70-130	
Carbon disulfide	2.00	2.05	102	70-130	
Carbon tetrachloride	2.00	1.79	89	70-130	
Chlorobenzene	2.00	1.64	82	70-130	
Chloroethane	2.00	1.98	99	70-130	
Chloroform	2.00	1.79	90	70-130	
Chloromethane	2.00	2.04	102	60-140	
cis-1,2-Dichloroethene	2.00	1.89	94	70-130	
cis-1,3-Dichloropropene	2.00	1.65	83	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d

Lab ID: LCS 140-984/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.85	92	70-130	
Dibromochloromethane	2.00	1.74	87	70-130	
Dichlorodifluoromethane	2.00	2.10	105	60-140	
Ethanol	10.0	9.32	93	20-180	
Ethylbenzene	2.00	1.70	85	70-130	
Heptane	2.00	1.69	84	70-130	
Hexachlorobutadiene	2.00	1.43	72	60-140	
Hexane	2.00	1.70	85	70-130	
Indane	2.00	1.70	85	20-180	
Indene	2.00	1.75	87	20-180	
Isopropyl alcohol	2.00	1.81	91	60-140	
Methyl tert-butyl ether	2.00	1.83	91	60-140	
Methylene Chloride	2.00	2.13	107	70-130	
m-Xylene & p-Xylene	4.00	3.28	82	70-130	
Naphthalene	2.00	1.50	75	40-140	
o-Xylene	2.00	1.67	83	70-130	
Propene	2.00	1.93	97	60-140	
Styrene	2.00	1.64	82	70-130	
Tetrachloroethene	2.00	1.70	85	70-130	
Tetrahydrofuran	2.00	1.73	87	60-140	
Thiophene	2.00	1.72	86	20-180	
Toluene	2.00	1.69	84	70-130	
trans-1,2-Dichloroethene	2.00	1.90	95	70-130	
trans-1,3-Dichloropropene	2.00	1.70	85	70-130	
Trichloroethene	2.00	1.78	89	70-130	
Trichlorofluoromethane	2.00	2.06	103	60-140	
Vinyl chloride	2.00	2.06	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d

Lab ID: LCS 140-990/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.11	105	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.04	102	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19	110	70-130	
1,1,2-Trichloroethane	2.00	1.87	94	70-130	
1,1-Dichloroethane	2.00	1.73	86	70-130	
1,1-Dichloroethene	2.00	2.02	101	70-130	
1,2,4-Trichlorobenzene	2.00	2.49	124	60-140	
1,2,4-Trimethylbenzene	2.00	2.50	125	70-130	
1,2-Dibromoethane (EDB)	2.00	2.06	103	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59	129	60-140	
1,2-Dichlorobenzene	2.00	2.52	126	70-130	
1,2-Dichloroethane	2.00	1.93	96	70-130	
1,2-Dichloropropane	2.00	1.65	82	70-130	
1,3,5-Trimethylbenzene	2.00	2.33	116	70-130	
1,3-Butadiene	2.00	1.93	97	60-140	
1,3-Dichlorobenzene	2.00	2.50	125	70-130	
1,4-Dichlorobenzene	2.00	2.47	123	70-130	
1,4-Dioxane	2.00	1.49	75	60-140	
2,2,4-Trimethylpentane	2.00	1.42	71	70-130	
2,3-Dimethylpentane	2.00	1.63	82	20-180	
2-Butanone (MEK)	2.00	1.47	73	60-140	
2-Hexanone	2.00	1.41	70	60-140	
2-Methylbutane	2.00	1.88	94	70-130	
2-Methylpentane	2.00	1.24	62	20-180	
4-Ethyltoluene	2.00	2.31	116	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.15	58	60-140	*
Acetone	2.00	1.82 J	91	60-140	
Benzene	2.00	1.80	90	70-130	
Benzyl chloride	2.00	2.40	120	70-130	
Bromodichloromethane	2.00	1.99	99	70-130	
Bromoform	2.00	2.76	138	60-140	
Bromomethane	2.00	2.33	116	70-130	
Carbon disulfide	2.00	1.83	91	70-130	
Carbon tetrachloride	2.00	2.36	118	70-130	
Chlorobenzene	2.00	2.17	109	70-130	
Chloroethane	2.00	2.15	107	70-130	
Chloroform	2.00	1.95	98	70-130	
Chloromethane	2.00	1.78	89	60-140	
cis-1,2-Dichloroethene	2.00	1.82	91	70-130	
cis-1,3-Dichloropropene	2.00	1.87	94	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d

Lab ID: LCS 140-990/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.62	81	70-130	
Dibromochloromethane	2.00	2.34	117	70-130	
Dichlorodifluoromethane	2.00	2.25	113	60-140	
Ethanol	10.0	8.52	85	20-180	
Ethylbenzene	2.00	2.07	104	70-130	
Heptane	2.00	1.64	82	70-130	
Hexachlorobutadiene	2.00	2.94	147	60-140	*
Hexane	2.00	1.45	73	70-130	
Indane	2.00	2.40	120	20-180	
Indene	2.00	2.51	126	20-180	
Isopropyl alcohol	2.00	1.79	90	60-140	
Methyl tert-butyl ether	2.00	1.99	100	60-140	
Methylene Chloride	2.00	1.92	96	70-130	
m-Xylene & p-Xylene	4.00	4.51	113	70-130	
Naphthalene	2.00	2.46	123	40-140	
o-Xylene	2.00	2.15	107	70-130	
Propene	2.00	1.34	67	60-140	
Styrene	2.00	2.31	115	70-130	
Tetrachloroethene	2.00	2.03	102	70-130	
Tetrahydrofuran	2.00	1.23	61	60-140	
Thiophene	2.00	1.78	89	20-180	
Toluene	2.00	1.95	98	70-130	
trans-1,2-Dichloroethene	2.00	1.93	96	70-130	
trans-1,3-Dichloropropene	2.00	1.86	93	70-130	
Trichloroethene	2.00	1.91	96	70-130	
Trichlorofluoromethane	2.00	2.60	130	60-140	
Vinyl chloride	2.00	2.12	106	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: 140-1086-a-9-MB.d Lab Sample ID: MB 140-990/1005

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 03/24/2014 11:45

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-990/1002	ECCVC24-LCS .d	03/24/2014 09:15
PCV-IA2-B5 DL	140-1063-17 DL	EC24P104.D	03/24/2014 13:17
PCV-IAPC-B5 DL	140-1063-18 DL	EC24P105.D	03/24/2014 14:38

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: MB200mL.D Lab Sample ID: MB 140-971/9

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MJ Date Analyzed: 03/18/2014 16:42

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-971/1002	JCCVC18-LCS .d	03/18/2014 10:16
IA2-E14	140-1063-14	JC18P201.D	03/18/2014 19:12
IA3-E14	140-1063-15	JC18P202.D	03/18/2014 20:05
PCV-IA1-B5	140-1063-16	JC18P203.D	03/18/2014 21:00
IA5-E14	140-1063-2	JC18P205.D	03/18/2014 23:43
IA6-E14	140-1063-3	JC18P206.D	03/19/2014 00:36
IA7-E14	140-1063-4	JC18P207.D	03/19/2014 01:31
AMB-2	140-1063-5	JC18P208.D	03/19/2014 02:25
AMB-4	140-1063-6	JC18P209.D	03/19/2014 03:20
PCV-IA2-B7	140-1063-8	JC18P210.D	03/19/2014 04:13
PCV-IA3-B7	140-1063-9	JC18P211.D	03/19/2014 05:07
PCV-IA1-B11	140-1063-10	JC18P212.D	03/19/2014 06:01
PCV-IA2-B11	140-1063-11	JC18P213.D	03/19/2014 06:56
PCV-IA3-B11	140-1063-12	JC18P214.D	03/19/2014 07:51
IA1-E14	140-1063-13	JC18P215.D	03/19/2014 08:44
PCV-IA2-B5	140-1063-17	JC18P216.D	03/19/2014 09:39

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: 140-1071-a-10-MB.d Lab Sample ID: MB 140-976/1004

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MJ Date Analyzed: 03/19/2014 13:17

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-976/1002	JCCVC19-LCS .d	03/19/2014 11:06
IA4-E14	140-1063-1	JC19P102.D	03/19/2014 16:52
AMB-1	140-1063-19	JC19P104.D	03/19/2014 19:31
AMB-3	140-1063-20	JC19P105.D	03/19/2014 20:25
IA1-E19	140-1063-21	JC19P106.D	03/19/2014 21:18
IA2-E19	140-1063-22	JC19P107.D	03/19/2014 22:12
IA1-E17	140-1063-23	JC19P108.D	03/19/2014 23:06
IA1FD-E17	140-1063-24	JC19P109.D	03/20/2014 00:01
IA2-E17	140-1063-25	JC19P110.D	03/20/2014 01:49
PCV-IA1-B5 DL	140-1063-16 DL	JC19P101R.D	03/20/2014 07:15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: 200BLK.D Lab Sample ID: MB 140-984/5

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MJ Date Analyzed: 03/21/2014 14:39

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PCV-IAPC-B5	140-1063-18	JC21P101.D	03/21/2014 15:32

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014

Instrument ID: ME BFB Injection Time: 13:40

Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	77.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: EBFBC24.D BFB Injection Date: 03/24/2014

Instrument ID: ME BFB Injection Time: 08:44

Analysis Batch No.: 990

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.7	(0.7)1
174	50.0 - 120.00 % of mass 95	98.3	
175	5.0 - 9.0 % of mass 174	7.5	(7.7)1
176	95.0 - 101.0 % of mass 174	95.6	(97.3)1
177	5.0 - 9.0 % of mass 176	6.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-990/2	ECCVC24.D	03/24/2014	09:15
	LCS 140-990/1002	ECCVC24-LCS.d	03/24/2014	09:15
	MB 140-990/1005	140-1086-a-9-MB.d	03/24/2014	11:45
PCV-IA2-B5 DL	140-1063-17 DL	EC24P104.D	03/24/2014	13:17
PCV-IAPC-B5 DL	140-1063-18 DL	EC24P105.D	03/24/2014	14:38

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: JBFBC11.D BFB Injection Date: 03/11/2014

Instrument ID: MJ BFB Injection Time: 12:12

Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	111.2	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	108.1	(97.2)1
177	5.0 - 9.0 % of mass 176	7.2	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCSC11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: JBFBC18.D BFB Injection Date: 03/18/2014

Instrument ID: MJ BFB Injection Time: 09:48

Analysis Batch No.: 971

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	42.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.0	
175	5.0 - 9.0 % of mass 174	8.4	(7.7)1
176	95.0 - 101.0 % of mass 174	107.9	(98.1)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-971/2	JCCVC18.D	03/18/2014	10:16
	LCS 140-971/1002	JCCVC18-LCS.d	03/18/2014	10:16
	MB 140-971/9	MB200mL.D	03/18/2014	16:42
IA2-E14	140-1063-14	JC18P201.D	03/18/2014	19:12
IA3-E14	140-1063-15	JC18P202.D	03/18/2014	20:05
PCV-IA1-B5	140-1063-16	JC18P203.D	03/18/2014	21:00
IA5-E14	140-1063-2	JC18P205.D	03/18/2014	23:43
IA6-E14	140-1063-3	JC18P206.D	03/19/2014	00:36
IA7-E14	140-1063-4	JC18P207.D	03/19/2014	01:31
AMB-2	140-1063-5	JC18P208.D	03/19/2014	02:25
AMB-4	140-1063-6	JC18P209.D	03/19/2014	03:20
PCV-IA2-B7	140-1063-8	JC18P210.D	03/19/2014	04:13
PCV-IA3-B7	140-1063-9	JC18P211.D	03/19/2014	05:07
PCV-IA1-B11	140-1063-10	JC18P212.D	03/19/2014	06:01
PCV-IA2-B11	140-1063-11	JC18P213.D	03/19/2014	06:56
PCV-IA3-B11	140-1063-12	JC18P214.D	03/19/2014	07:51
IA1-E14	140-1063-13	JC18P215.D	03/19/2014	08:44
PCV-IA2-B5	140-1063-17	JC18P216.D	03/19/2014	09:39

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: JBFBC19.D BFB Injection Date: 03/19/2014

Instrument ID: MJ BFB Injection Time: 10:38

Analysis Batch No.: 976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.0	
175	5.0 - 9.0 % of mass 174	8.5	(7.8)1
176	95.0 - 101.0 % of mass 174	107.8	(98.0)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-976/2	JCCVC19.D	03/19/2014	11:06
	LCS 140-976/1002	JCCVC19-LCS.d	03/19/2014	11:06
	MB 140-976/1004	140-1071-a-10-MB.d	03/19/2014	13:17
IA4-E14	140-1063-1	JC19P102.D	03/19/2014	16:52
AMB-1	140-1063-19	JC19P104.D	03/19/2014	19:31
AMB-3	140-1063-20	JC19P105.D	03/19/2014	20:25
IA1-E19	140-1063-21	JC19P106.D	03/19/2014	21:18
IA2-E19	140-1063-22	JC19P107.D	03/19/2014	22:12
IA1-E17	140-1063-23	JC19P108.D	03/19/2014	23:06
IA1FD-E17	140-1063-24	JC19P109.D	03/20/2014	00:01
IA2-E17	140-1063-25	JC19P110.D	03/20/2014	01:49
PCV-IA1-B5 DL	140-1063-16 DL	JC19P101R.D	03/20/2014	07:15

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab File ID: JBFBC21.D BFB Injection Date: 03/21/2014

Instrument ID: MJ BFB Injection Time: 11:03

Analysis Batch No.: 984

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	43.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.6	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	107.7	(97.4)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-984/2	JCCVC21.D	03/21/2014	11:30
	LCS 140-984/1002	JCCVC21-LCS.d	03/21/2014	11:30
	MB 140-984/5	200BLK.D	03/21/2014	14:39
PCV-IAPC-B5	140-1063-18	JC21P101.D	03/21/2014	15:32

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT		330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT		141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-758/14		245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: CCVIS 140-990/2 Date Analyzed: 03/24/2014 09:15

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVC24.D Heated Purge: (Y/N) N

Calibration ID: 115

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		302319	8.34	1502722	10.57	1339330	15.38
UPPER LIMIT		423247	8.67	2103811	10.90	1875062	15.71
LOWER LIMIT		181391	8.01	901633	10.24	803598	15.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-990/1002		302319	8.34	1502722	10.57	1339330	15.38
MB 140-990/1005		303416	8.33	1490673	10.57	1270564	15.38
140-1063-17 DL	PCV-IA2-B5 DL	271813	8.33	1322864	10.56	1080071	15.38
140-1063-18 DL	PCV-IAPC-B5 DL	291453	8.33	1374784	10.57	1172758	15.38

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT		491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT		210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-946/14		326764	9.39	1541489	11.55	1315171	16.21

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: CCVIS 140-971/2 Date Analyzed: 03/18/2014 10:16

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JCCVC18.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		363327	9.39	1539618	11.54	1280996	16.20
UPPER LIMIT		508658	9.72	2155465	11.87	1793394	16.53
LOWER LIMIT		217996	9.06	923771	11.21	768598	15.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-971/1002		363327	9.39	1539618	11.54	1280996	16.20
MB 140-971/9		377290	9.38	1683690	11.53	1364337	16.20
140-1063-14	IA2-E14	356682	9.38	1658549	11.54	1401393	16.20
140-1063-15	IA3-E14	369929	9.38	1766504	11.54	1419898	16.20
140-1063-16	PCV-IA1-B5	342541	9.39	1565611	11.54	1280677	16.20
140-1063-2	IA5-E14	379483	9.38	1809160	11.54	1510580	16.20
140-1063-3	IA6-E14	378406	9.38	1803968	11.53	1499805	16.20
140-1063-4	IA7-E14	355969	9.38	1695531	11.53	1347420	16.20
140-1063-5	AMB-2	356136	9.38	1701568	11.53	1362505	16.20
140-1063-6	AMB-4	362335	9.38	1751097	11.54	1422550	16.20
140-1063-8	PCV-IA2-B7	345221	9.38	1647743	11.53	1373616	16.20
140-1063-9	PCV-IA3-B7	344401	9.38	1626086	11.54	1289345	16.20
140-1063-10	PCV-IA1-B11	356594	9.38	1636233	11.54	1357067	16.20
140-1063-11	PCV-IA2-B11	353782	9.38	1687192	11.53	1399026	16.20
140-1063-12	PCV-IA3-B11	363113	9.38	1701606	11.53	1409144	16.20
140-1063-13	IA1-E14	372093	9.38	1765083	11.53	1488275	16.20
140-1063-17	PCV-IA2-B5	368949	9.39	1720971	11.54	1485170	16.20

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: CCVIS 140-976/2 Date Analyzed: 03/19/2014 11:06

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JCCVC19.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		344423	9.39	1458024	11.54	1214604	16.20
UPPER LIMIT		482192	9.72	2041234	11.87	1700446	16.53
LOWER LIMIT		206654	9.06	874814	11.21	728762	15.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-976/1002		344423	9.39	1458024	11.54	1214604	16.20
MB 140-976/1004		389292	9.38	1813244	11.53	1451706	16.20
140-1063-1	IA4-E14	356308	9.38	1684244	11.54	1336213	16.20
140-1063-19	AMB-1	382463	9.38	1839359	11.54	1520693	16.20
140-1063-20	AMB-3	343417	9.38	1655946	11.54	1371389	16.19
140-1063-21	IA1-E19	347239	9.38	1642012	11.53	1317082	16.20
140-1063-22	IA2-E19	363785	9.38	1764672	11.53	1503623	16.20
140-1063-23	IA1-E17	359685	9.38	1752520	11.53	1459544	16.20
140-1063-24	IA1FD-E17	358412	9.38	1739516	11.53	1451460	16.20
140-1063-25	IA2-E17	361048	9.38	1756353	11.53	1478544	16.19
140-1063-16 DL	PCV-IA1-B5 DL	359963	9.38	1774737	11.53	1432488	16.20

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Sample No.: CCVIS 140-984/2 Date Analyzed: 03/21/2014 11:30

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): JCCVC21.D Heated Purge: (Y/N) N

Calibration ID: 143

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		348435	9.38	1618750	11.53	1362025	16.19
UPPER LIMIT		487809	9.71	2266250	11.86	1906835	16.52
LOWER LIMIT		209061	9.05	971250	11.20	817215	15.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-984/1002		348435	9.38	1618750	11.53	1362025	16.19
MB 140-984/5		375868	9.37	1755903	11.53	1341257	16.19
140-1063-18	PCV-IAPC-B5	357606	9.38	1688006	11.53	1376386	16.19

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.065	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.075	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.079	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.071	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.55	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.37	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.24	J	0.50	0.045
67-64-1	Acetone	58.08	3.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.26		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	23		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.079	J	0.20	0.068
142-82-5	Heptane	100.21	0.098	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.6		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.36	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.25		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.095	J	0.20	0.061
115-07-1	Propene	42.08	0.55	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.99		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.36	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.48	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.33	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.6	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.1	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.0	J	2.0	0.18
67-64-1	Acetone	58.08	8.2	J	12	3.3
71-43-2	Benzene	78.11	0.82		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	44		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.34	J	0.87	0.30
142-82-5	Heptane	100.21	0.40	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.45	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.41	J	0.87	0.26
115-07-1	Propene	42.08	0.94	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.99	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1

Matrix: Air Lab File ID: JC19P102.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:12

Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52

Soil Aliquot Vol: Dilution Factor: 1.43

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D
Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1
Client ID: IA4-E14
Sample Type: Client
Inject. Date: 19-Mar-2014 16:52:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4300
Sample Info: 140-1063-A-17
Misc. Info.: J031914,TO15,,140-0000532-008
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 17:57:42 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:57:41

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.379	9.385	-0.006	90	356308	4.00	
*	2 1,4-Difluorobenzene	114	11.536	11.542	-0.006	94	1684244	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.195	16.201	-0.006	87	1336213	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.814	17.820	-0.006	91	858075	3.63	
	7 Propene	41	3.978	3.973	0.005	97	23862	0.2184	
	8 Dichlorodifluoromethane	85	4.026	4.032	-0.006	99	61646	0.1747	
	9 Chloromethane	52	4.225	4.231	-0.006	97	8222	0.2051	
	17 Ethanol	31	5.113	5.119	-0.006	95	265362	9.28	
	19 2-Methylbutane	43	5.409	5.409	0.0	91	22427	0.1482	
	20 Trichlorofluoromethane	101	5.645	5.646	-0.001	87	26140	0.0843	
	23 Acetone	58	5.764	5.770	-0.006	92	70008	1.38	
	24 Isopropyl alcohol	45	5.850	5.850	0.0	97	137749	1.03	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.582	-0.006	67	5988	0.0279	
	31 Methylene Chloride	84	6.754	6.754	0.0	86	13820	0.1450	
	39 2-Butanone (MEK)	72	8.593	8.589	0.004	97	7466	0.2214	
	40 Hexane	56	8.631	8.637	-0.006	65	4851	0.0506	
	45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	40	5662	0.0262	
	48 Benzene	78	11.014	11.026	-0.012	89	29502	0.1021	
	50 Carbon tetrachloride	117	11.046	11.047	-0.001	86	6489	0.0272	
	53 Isooctane	57	11.757	11.763	-0.006	69	13929	0.0282	
	54 n-Heptane	71	12.117	12.123	-0.006	81	3986	0.0390	
	62 4-Methyl-2-pentanone (MIBK)	43	13.376	13.371	0.005	85	17290	0.0979	
	65 Toluene	91	14.247	14.253	-0.006	93	98463	0.3972	
	73 Tetrachloroethene	129	15.382	15.383	-0.001	81	6769	0.0586	
	76 Ethylbenzene	91	16.528	16.529	-0.001	41	8685	0.0317	
	78 m-Xylene & p-Xylene	91	16.684	16.685	-0.001	94	22399	0.1014	
	82 o-Xylene	91	17.211	17.212	-0.001	60	8480	0.0379	
	93 1,2,4-Trimethylbenzene	105	18.938	18.939	-0.001	46	7799	0.0301	
	97 1,4-Dichlorobenzene	146	19.293	19.294	-0.001	56	5033	0.0317	

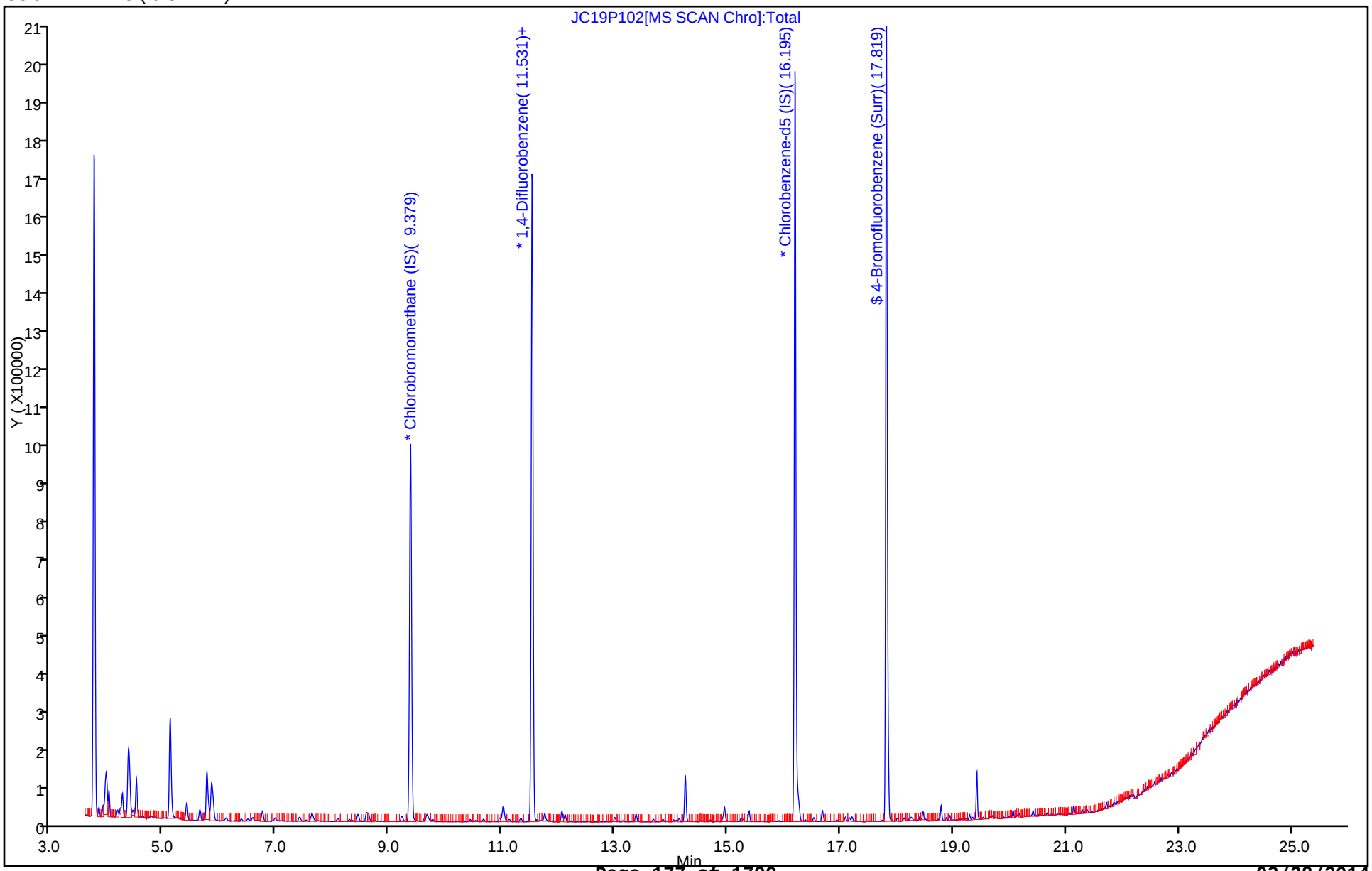
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1	Worklist Smp#:	8
Client ID:	IA4-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.4300	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



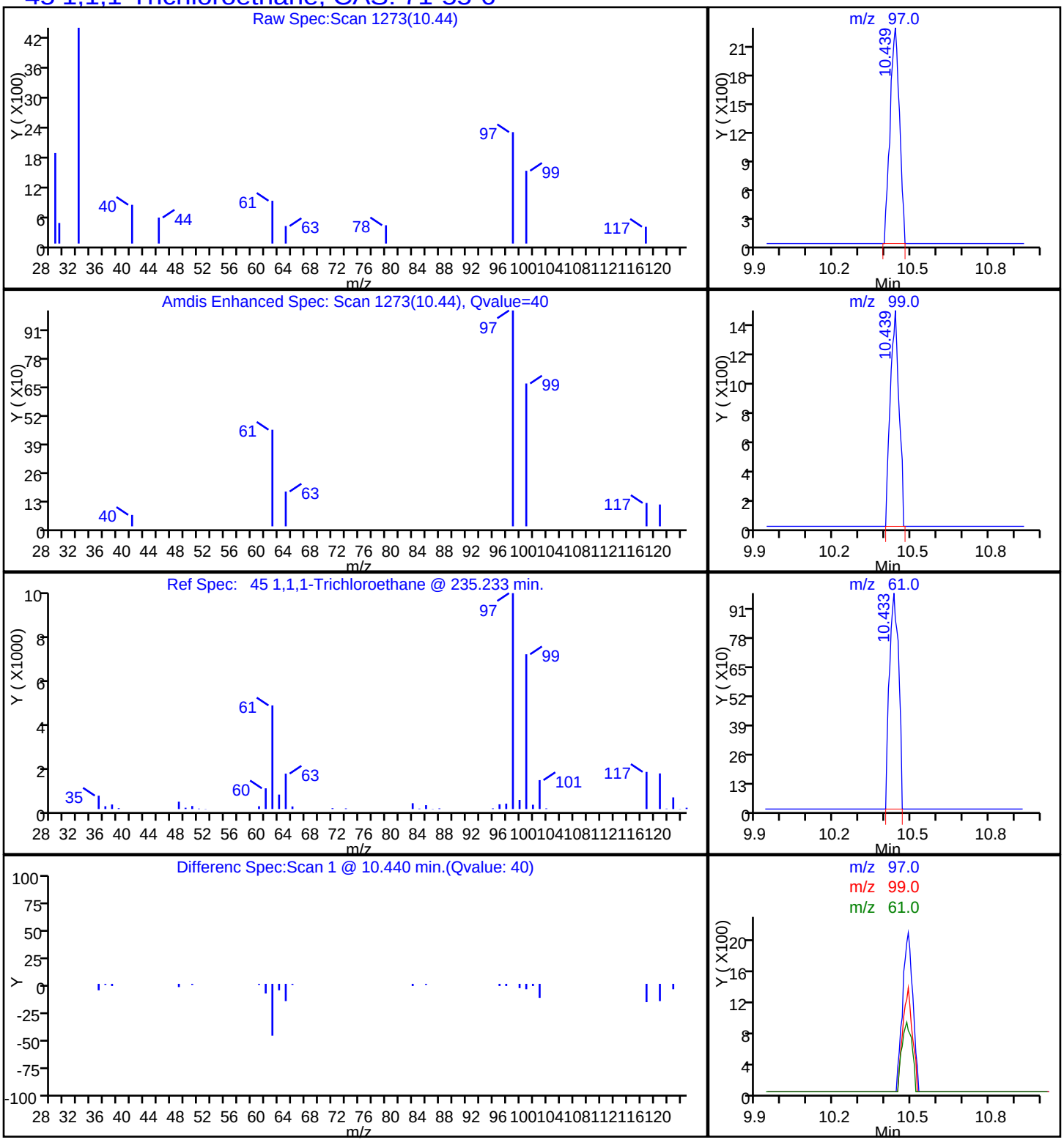
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

45 1,1,1-Trichloroethane, CAS: 71-55-6



Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30 Instrument ID: MJ

Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1

Client ID: IA4-E14

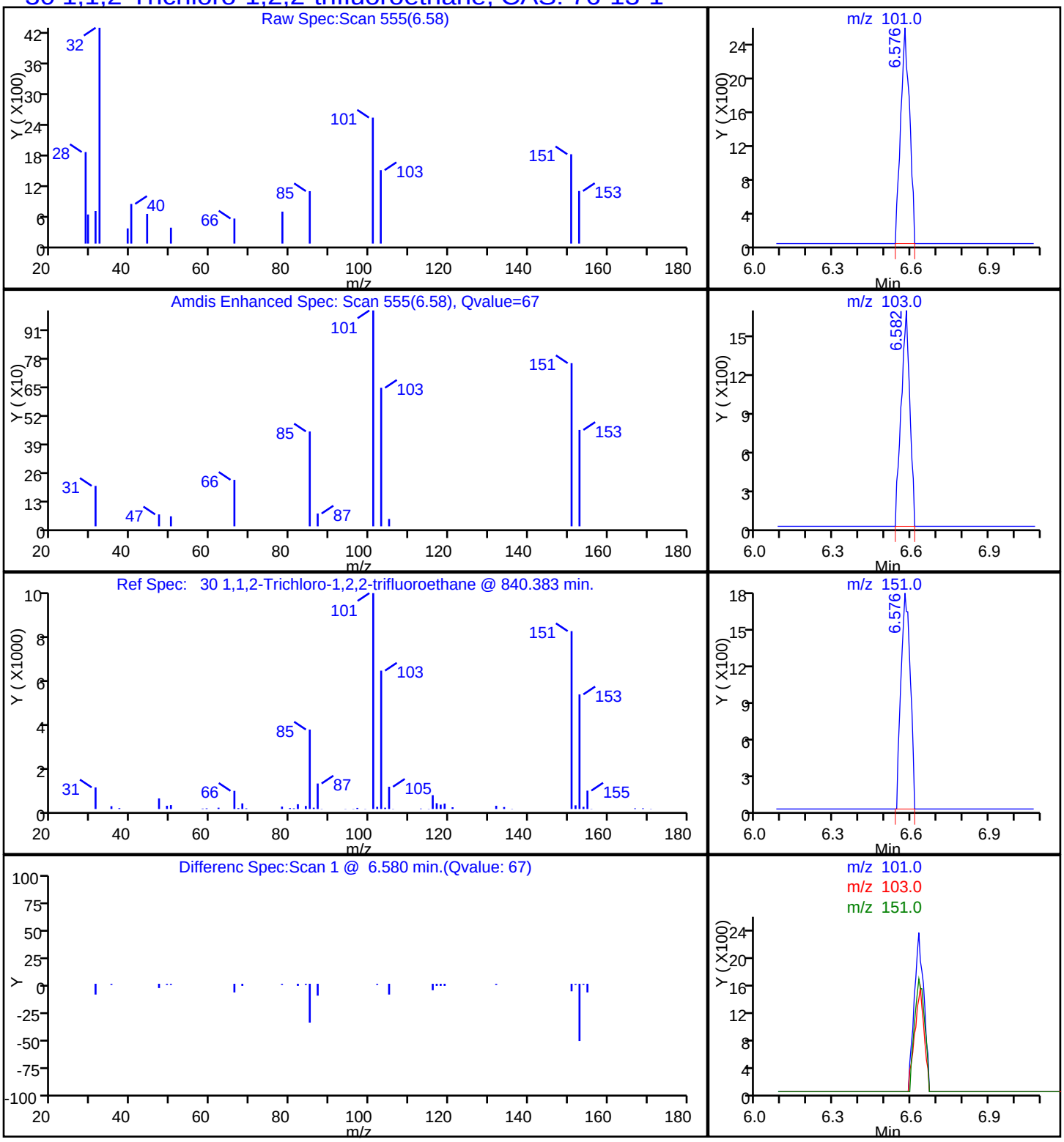
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.4300

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

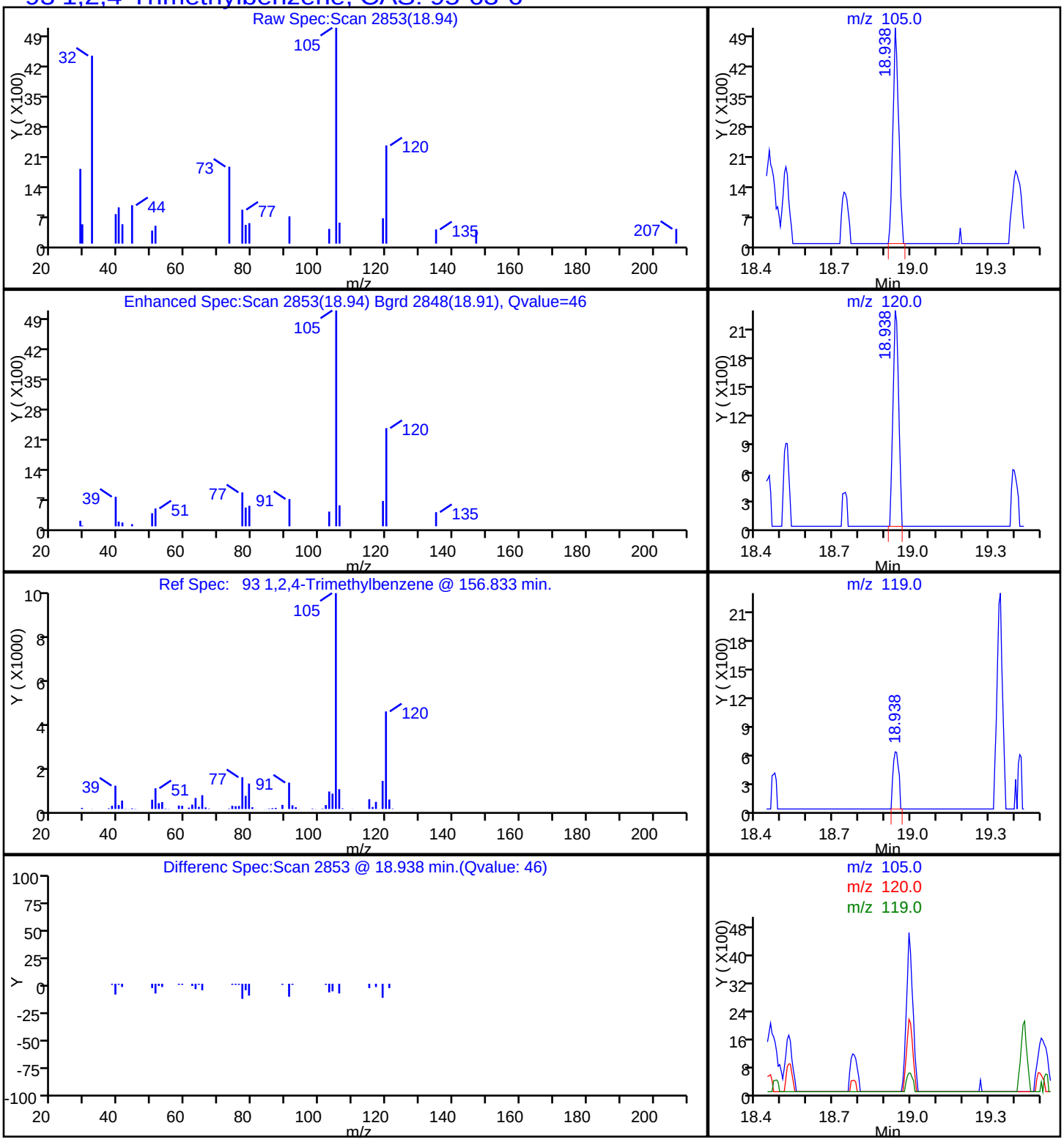


Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D				
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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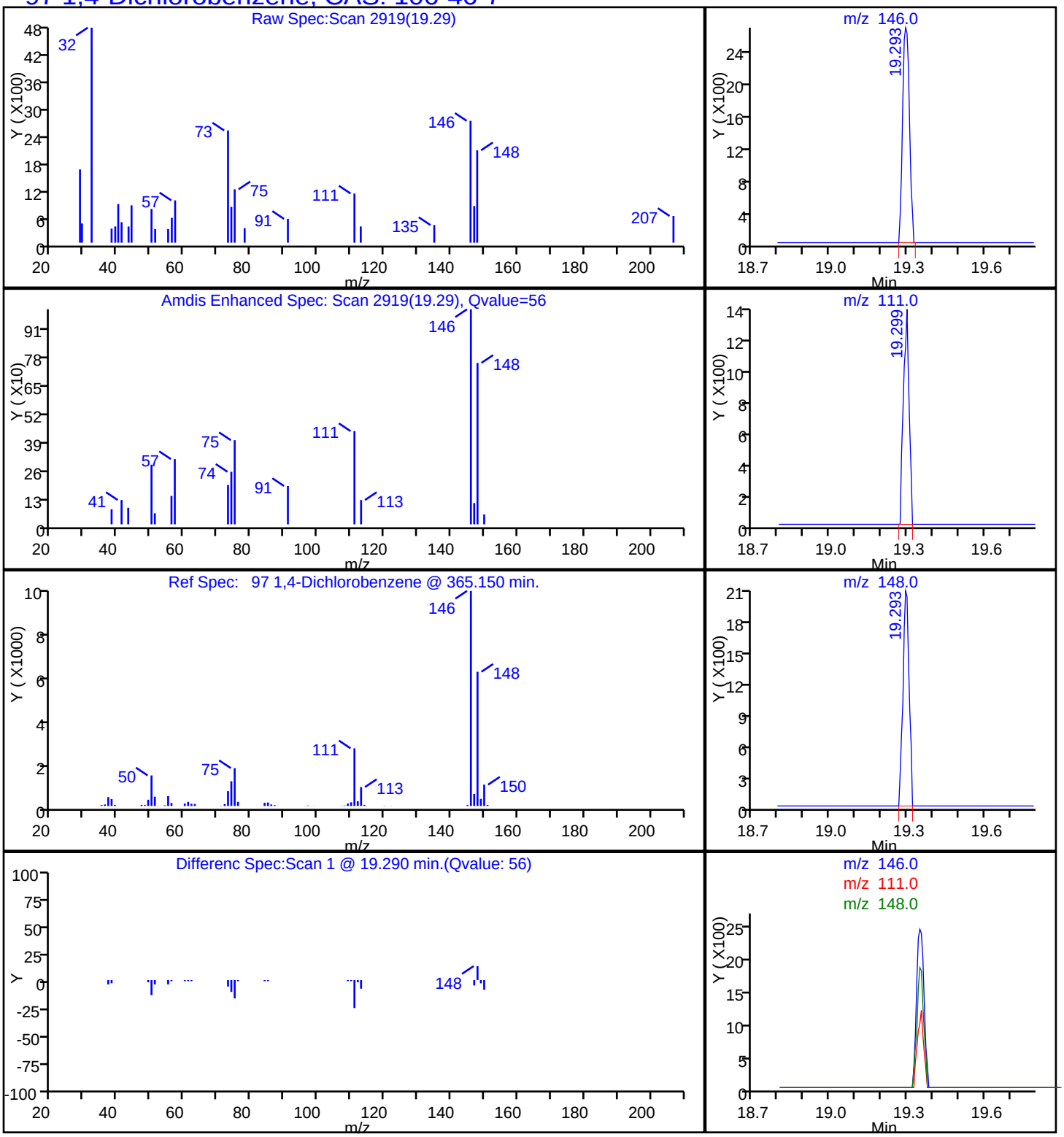
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



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TestAmerica Knoxville

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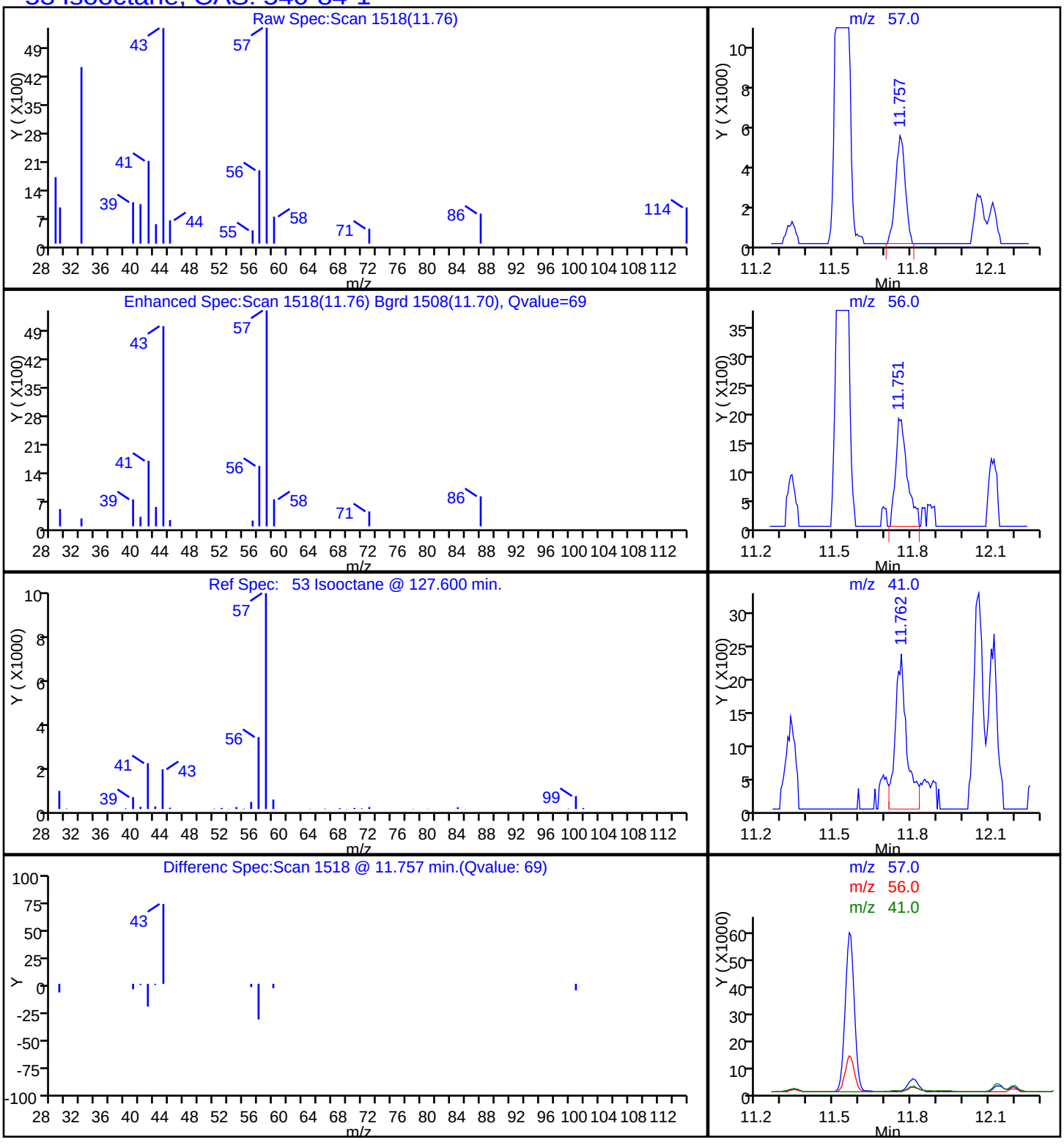
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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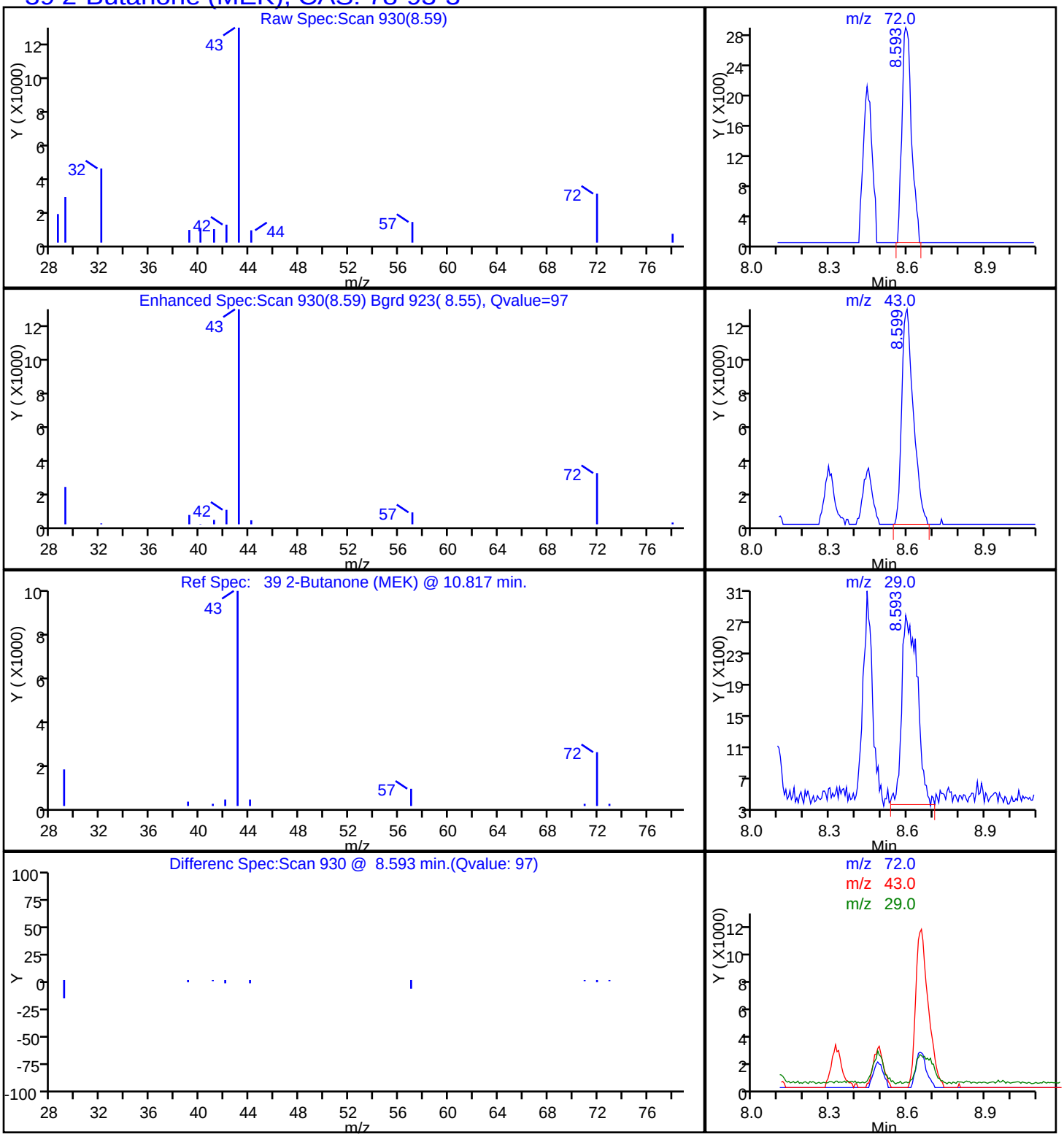
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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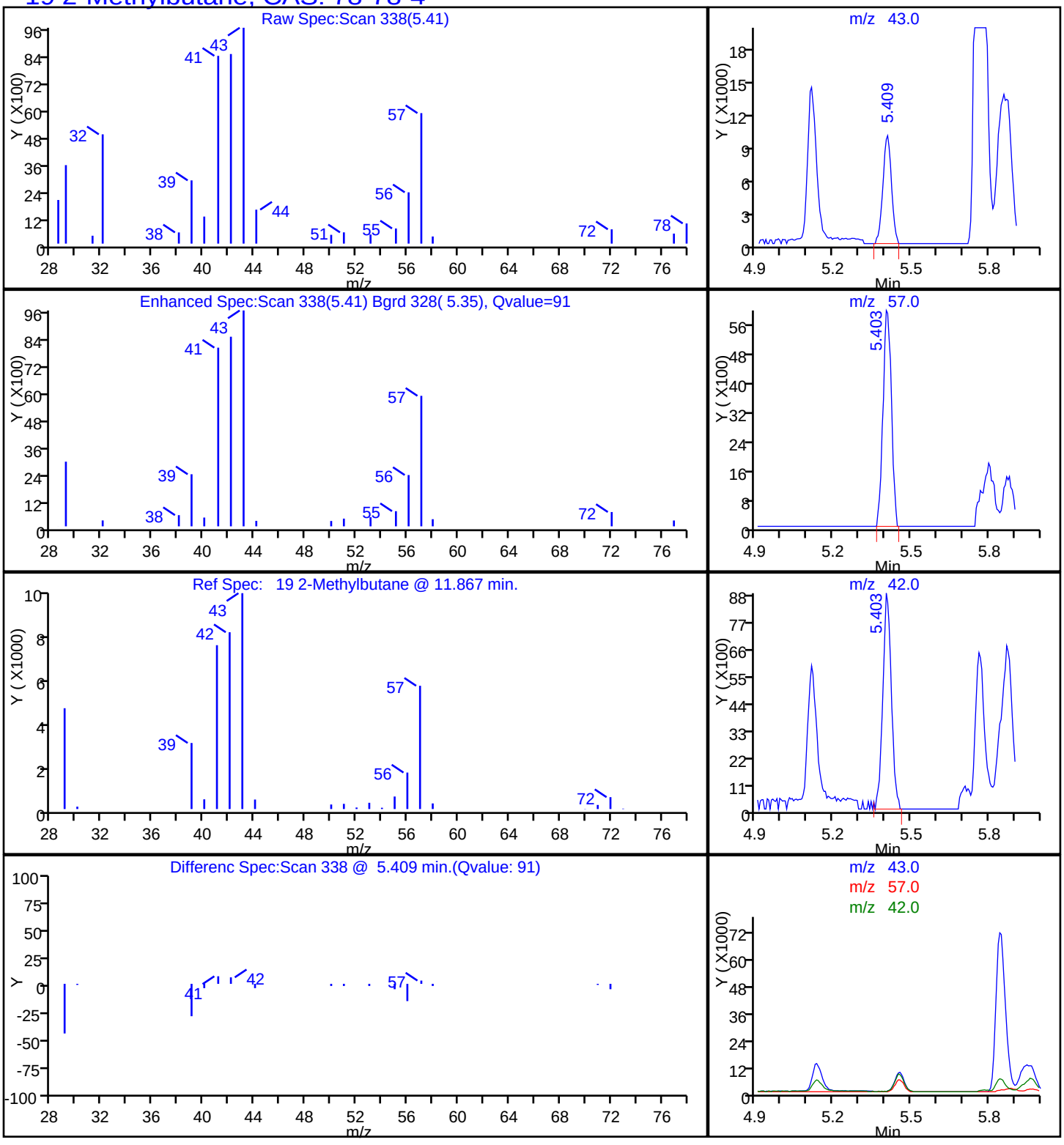
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30 Instrument ID: MJ

Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1

Client ID: IA4-E14

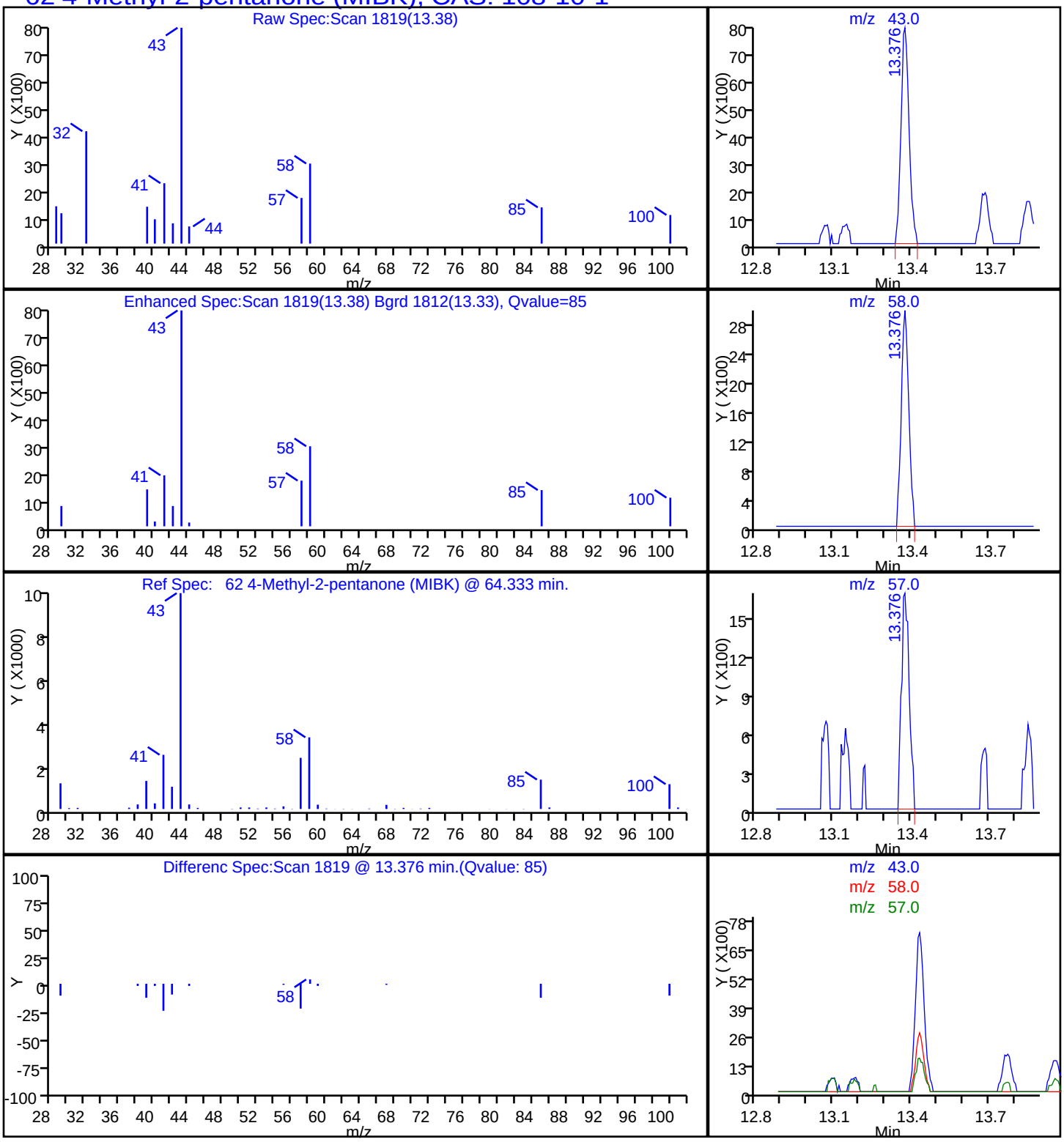
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.4300

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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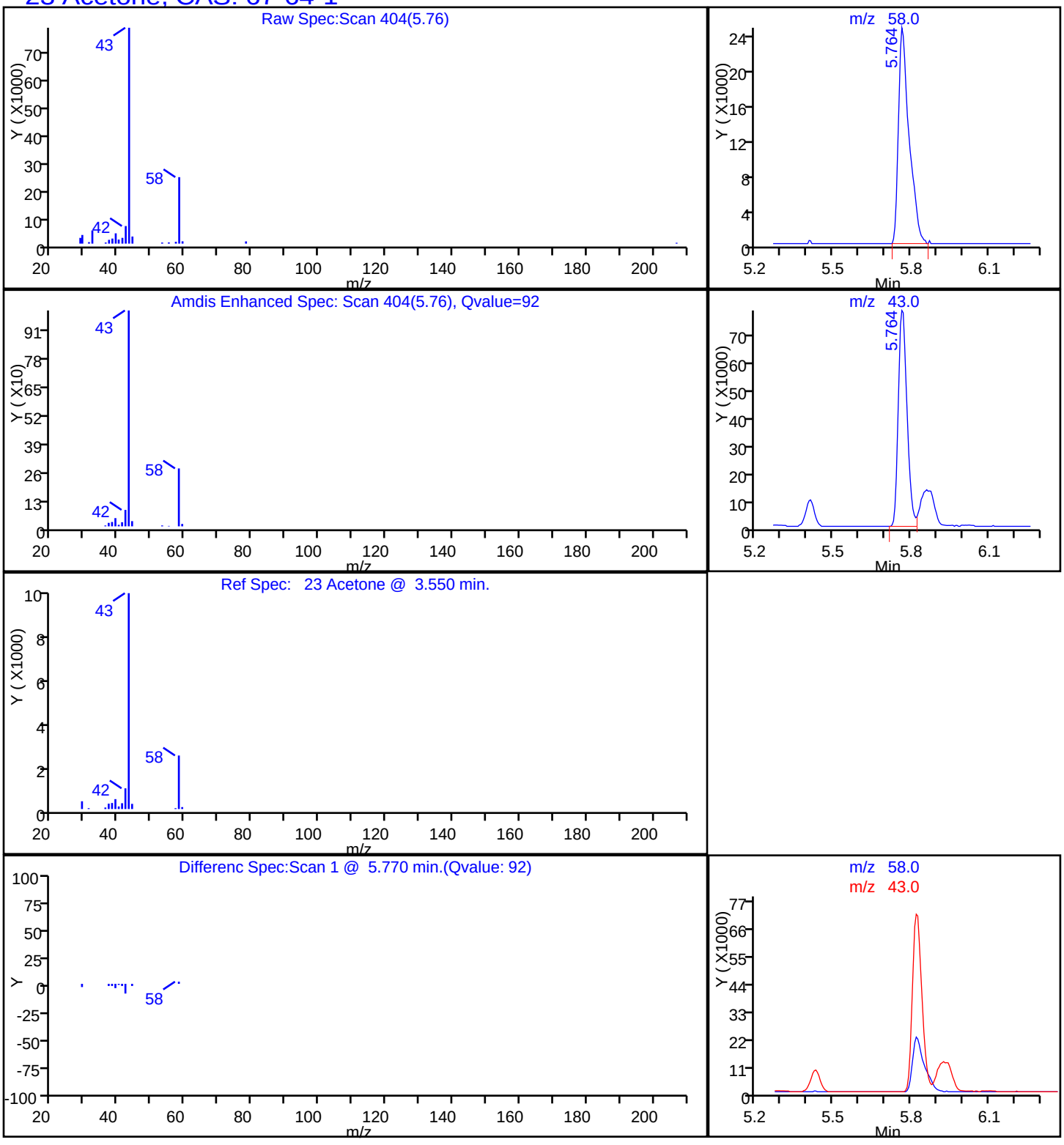
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D		
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

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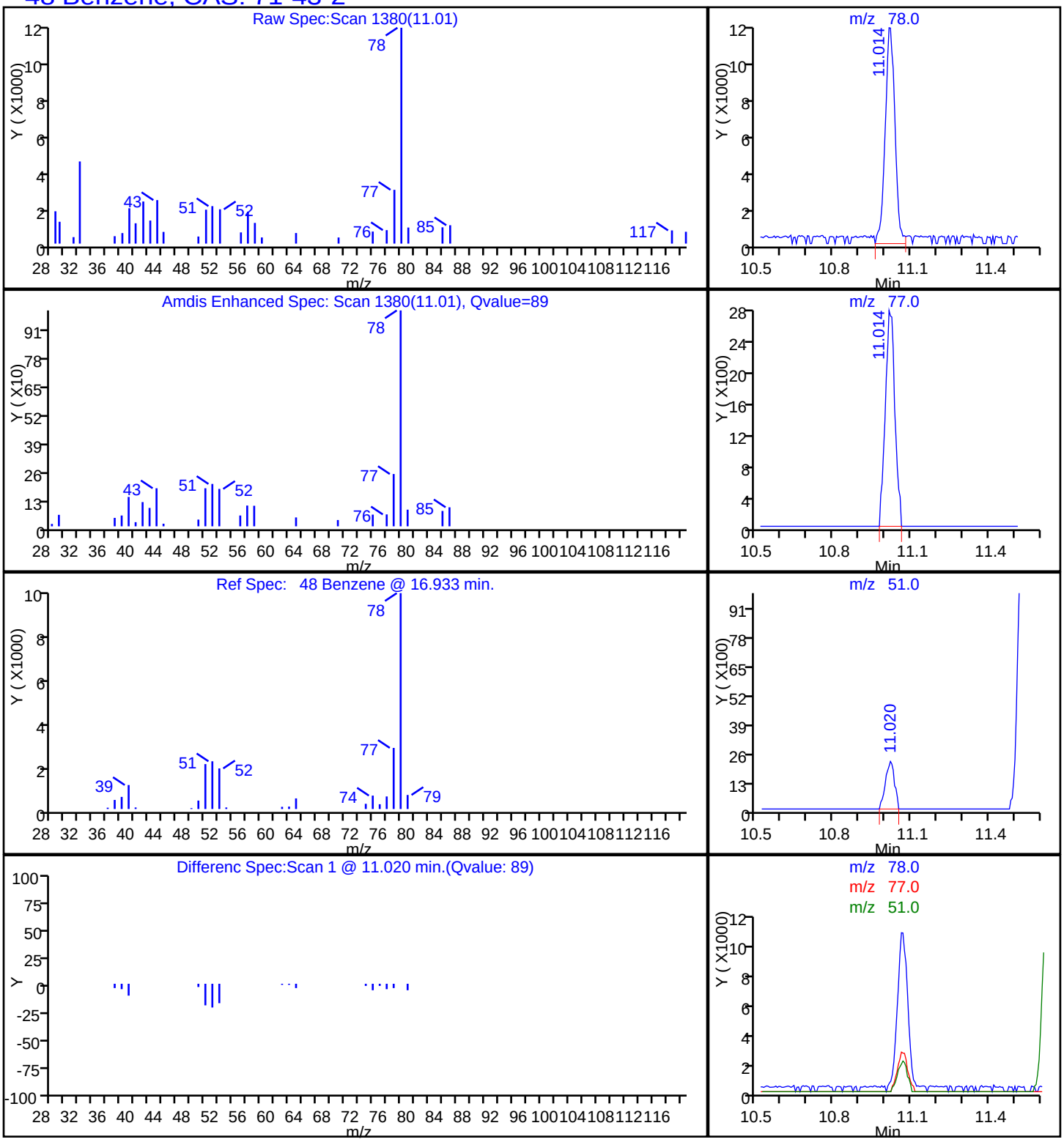
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30 Instrument ID: MJ

Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1

Client ID: IA4-E14

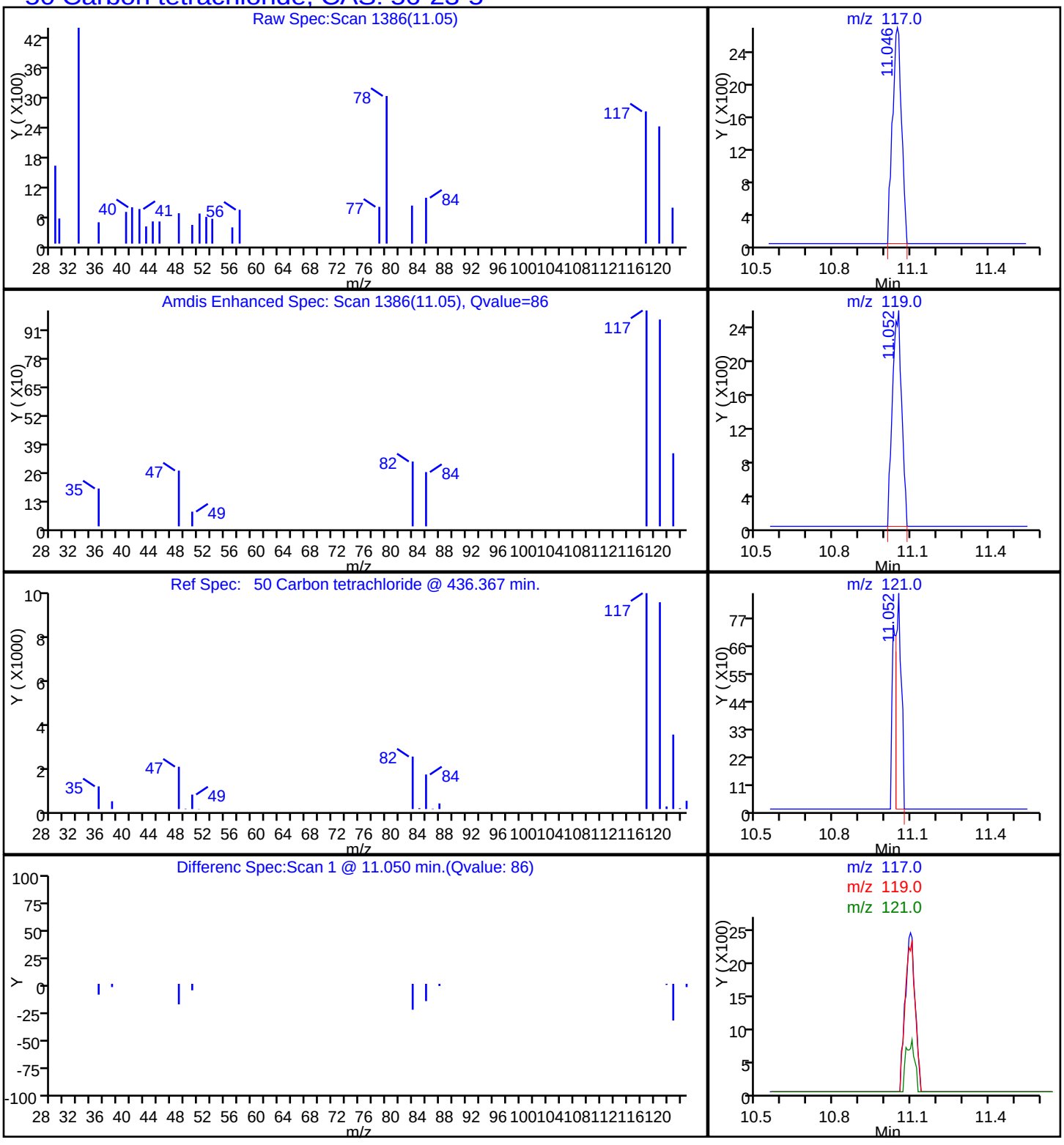
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.4300

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



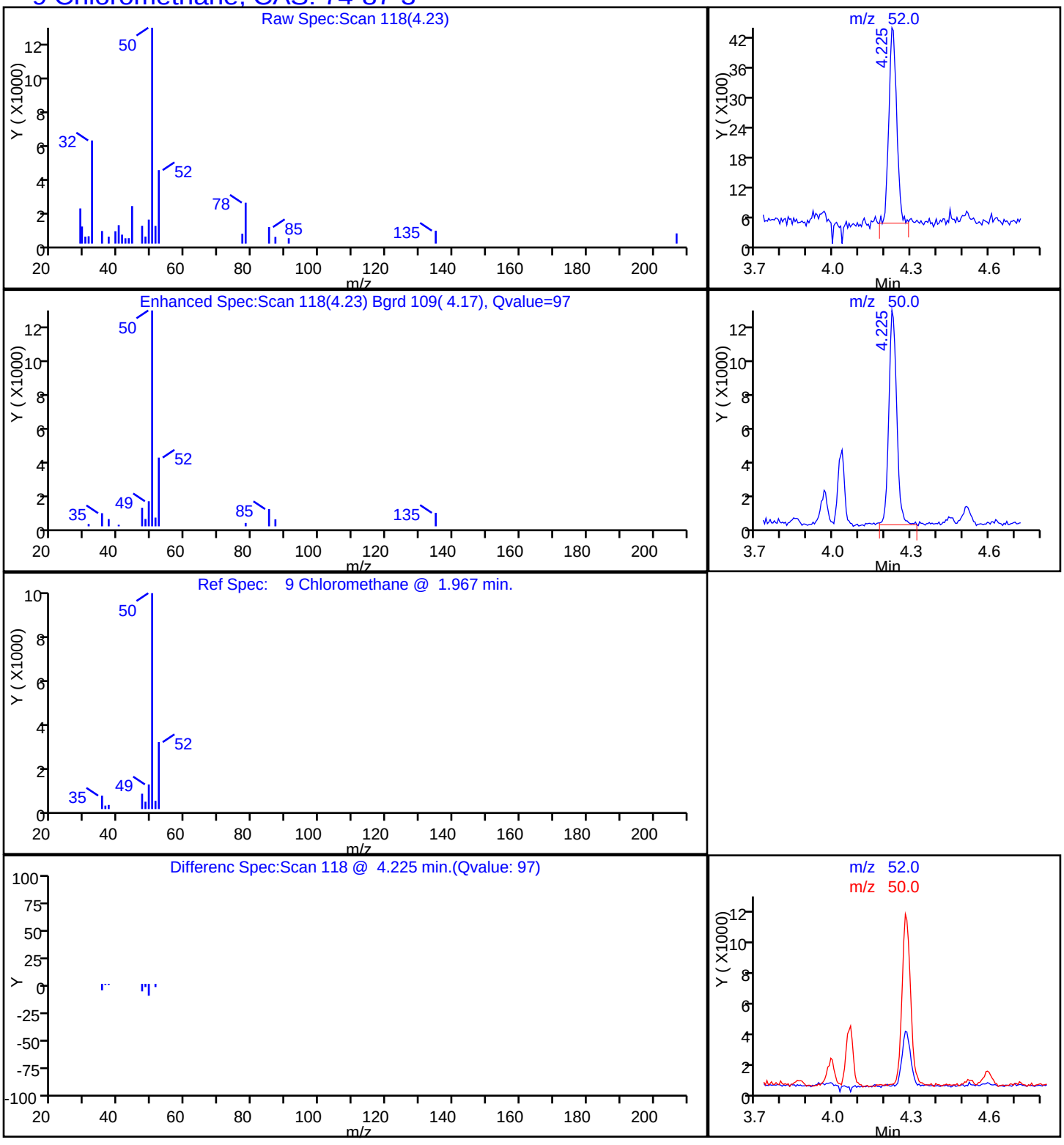
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30 Instrument ID: MJ

Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1

Client ID: IA4-E14

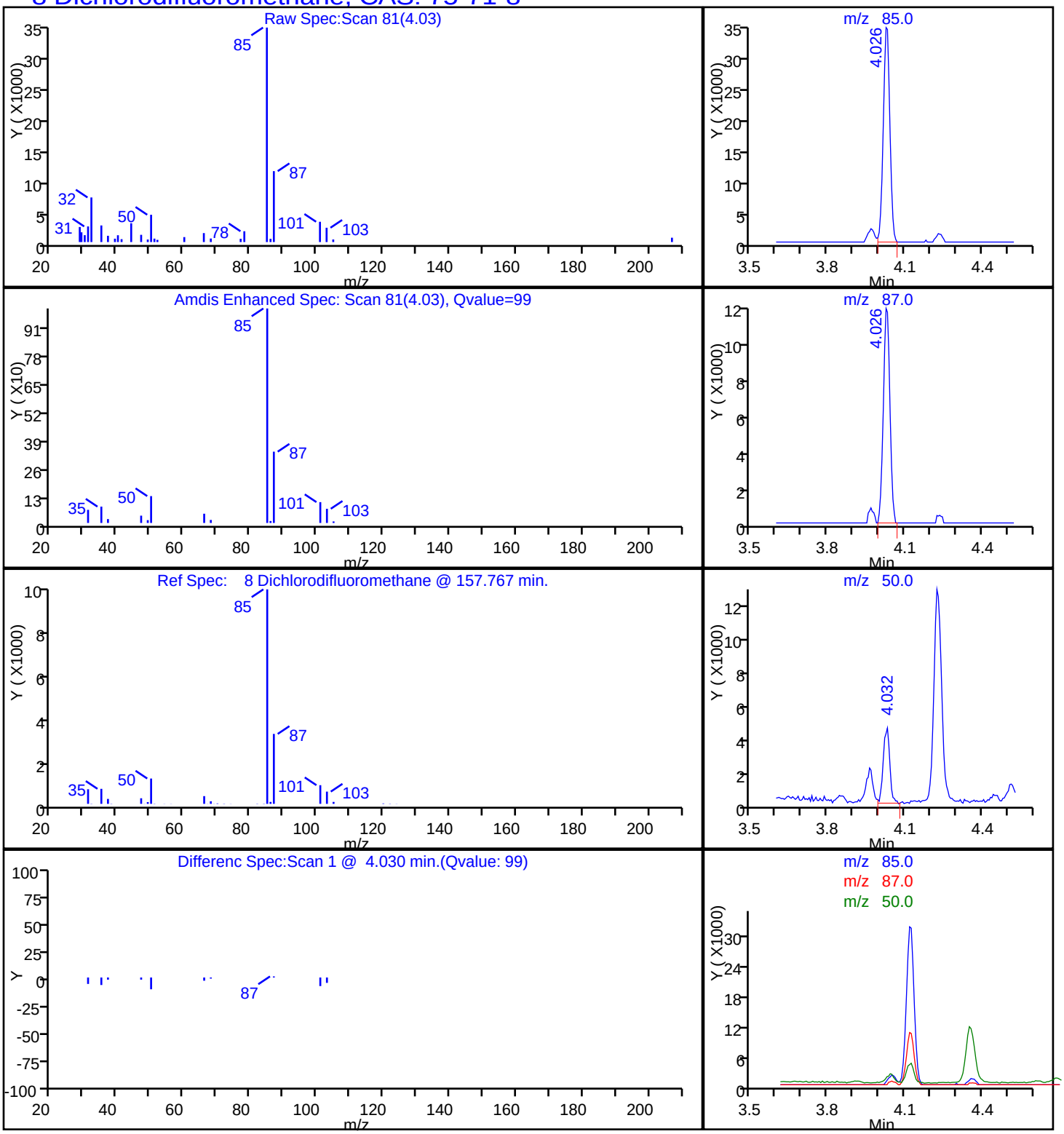
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.4300

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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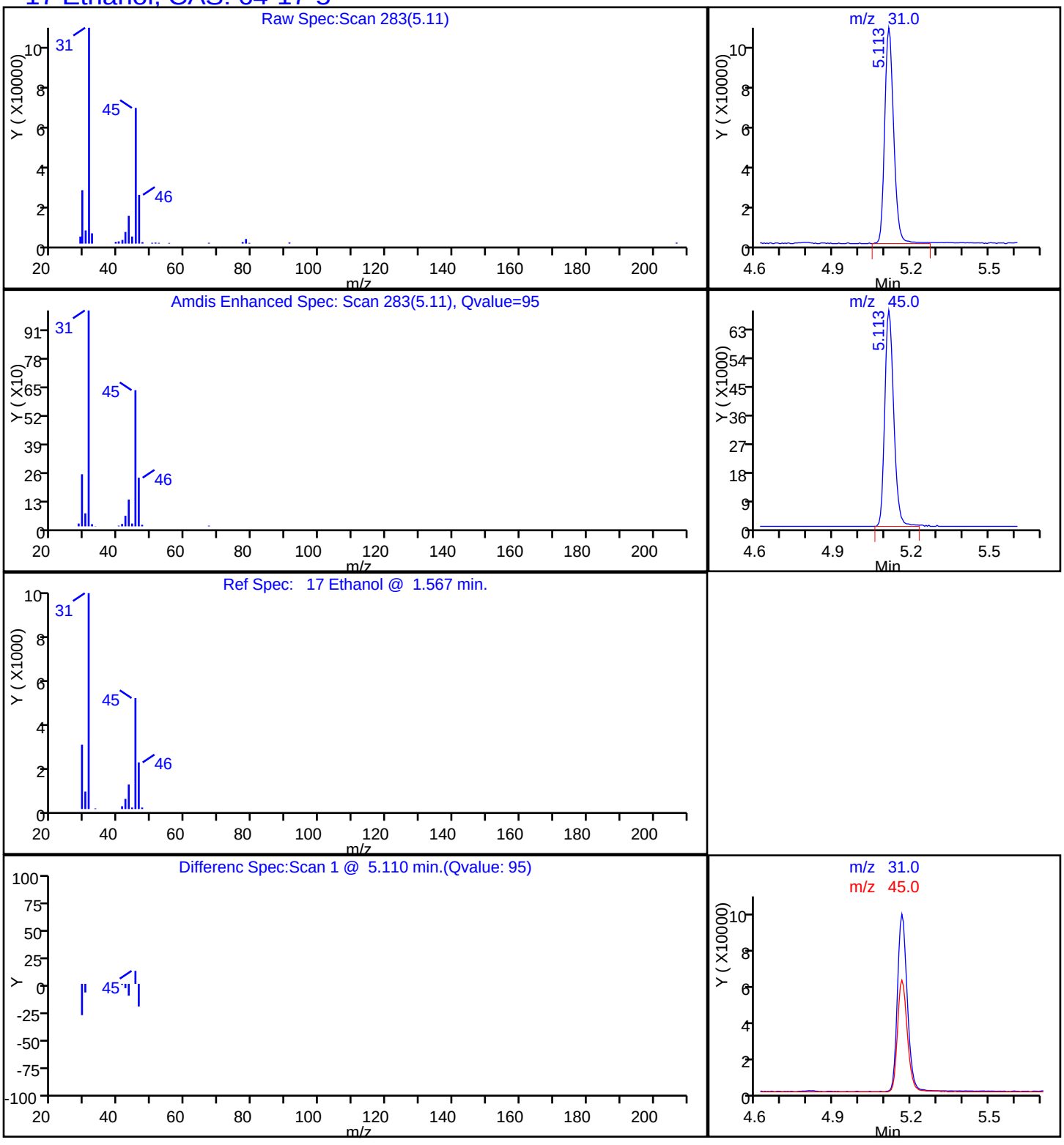
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



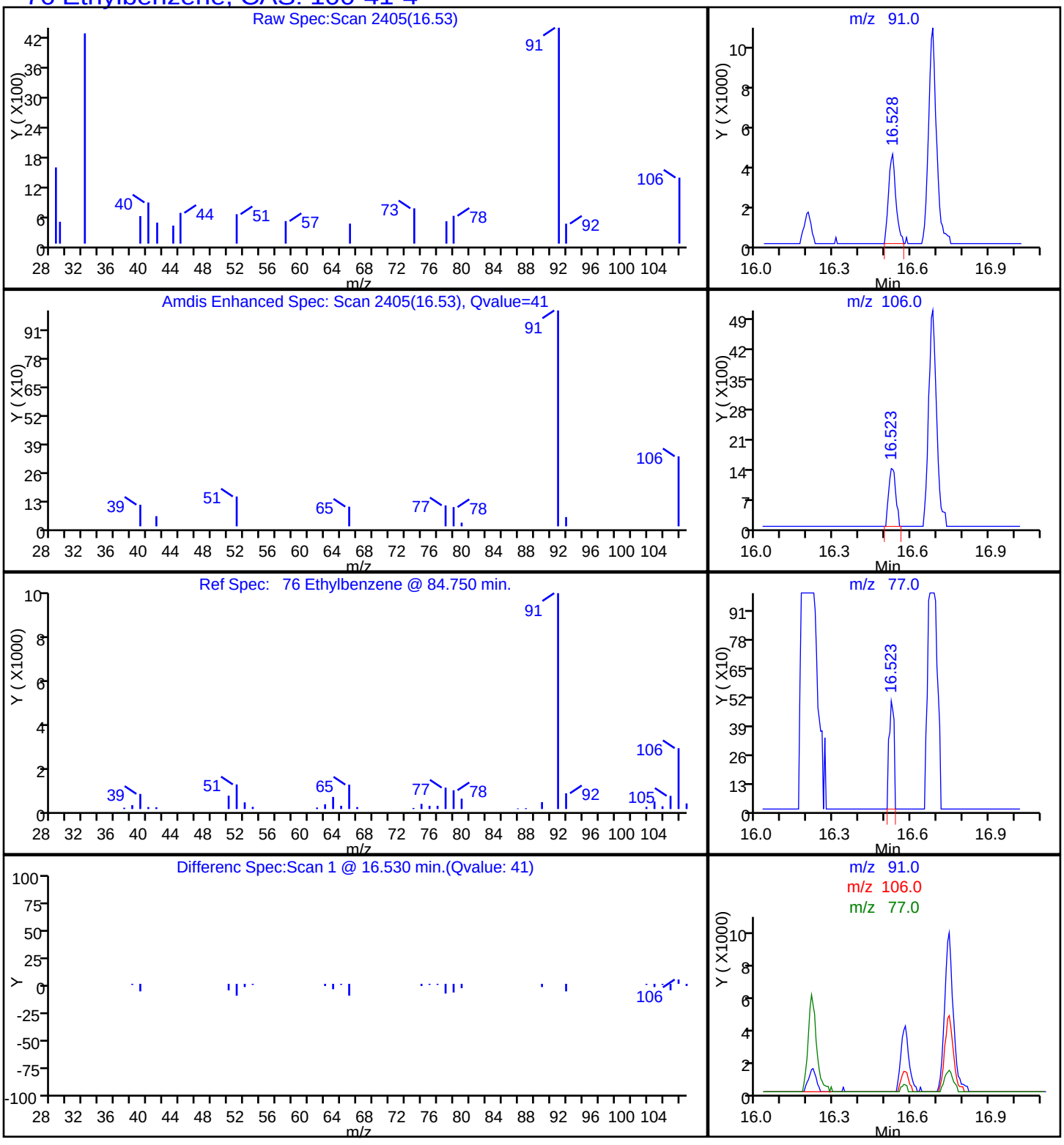
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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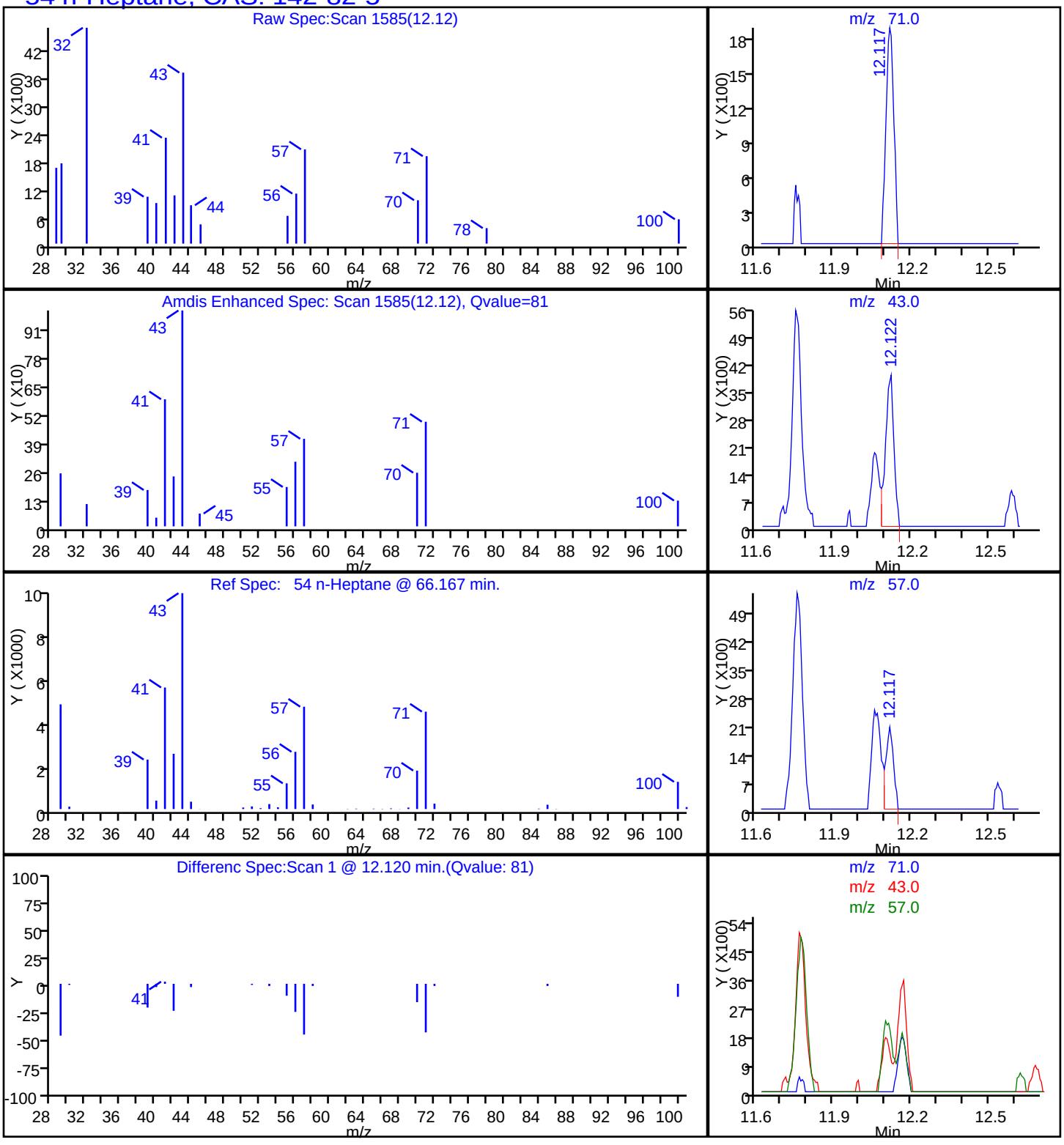
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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TestAmerica Knoxville

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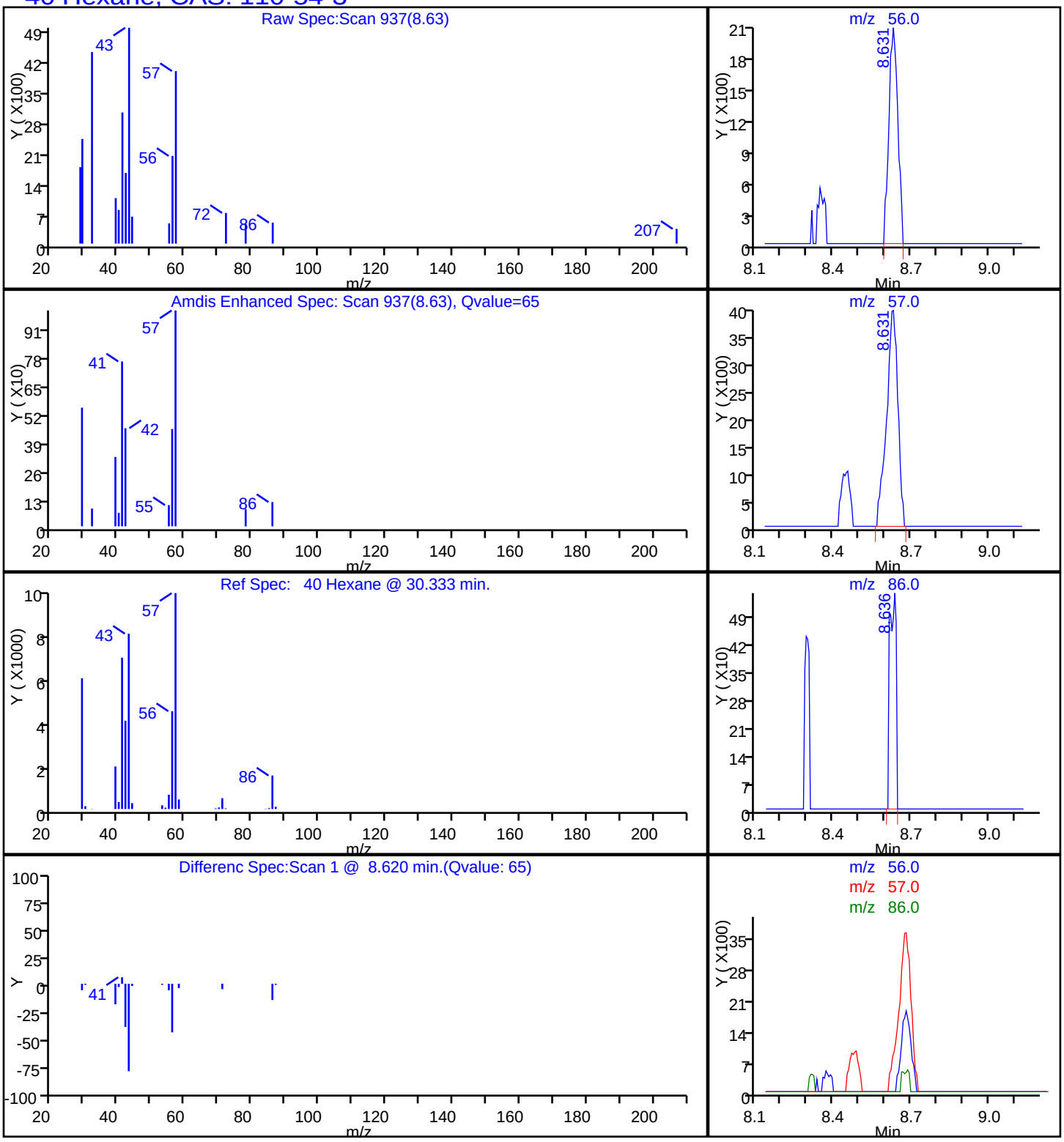
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



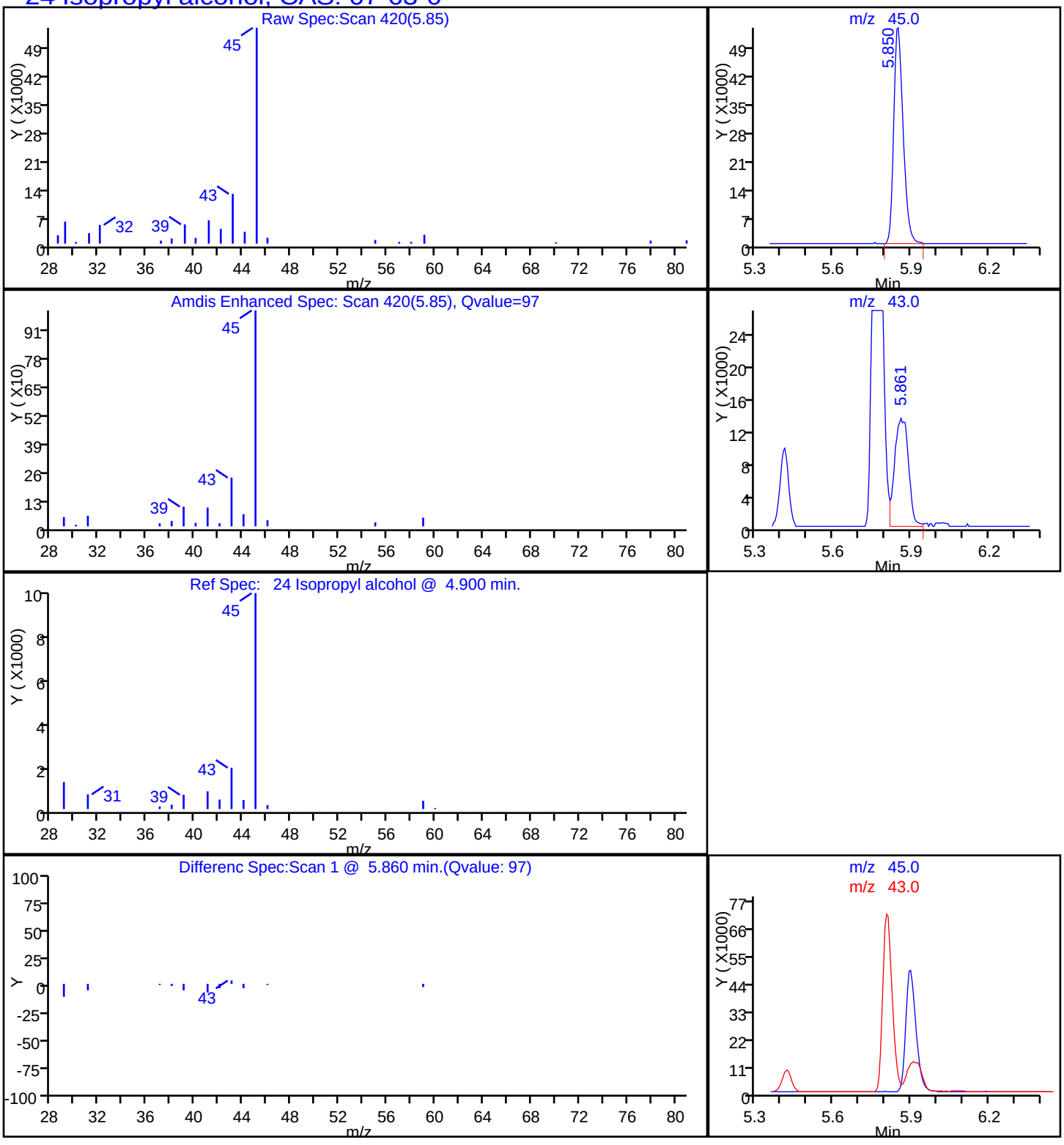
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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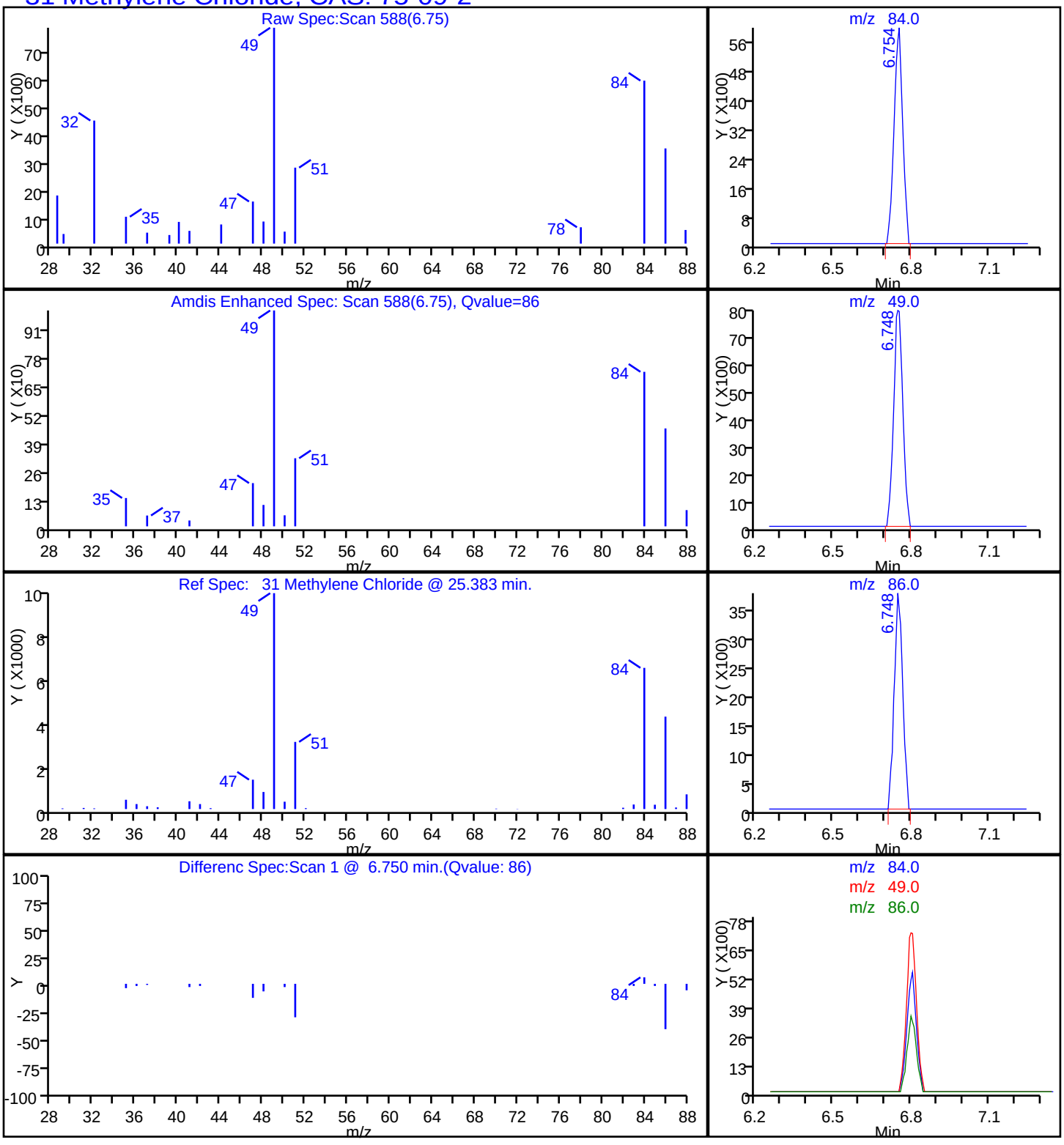
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



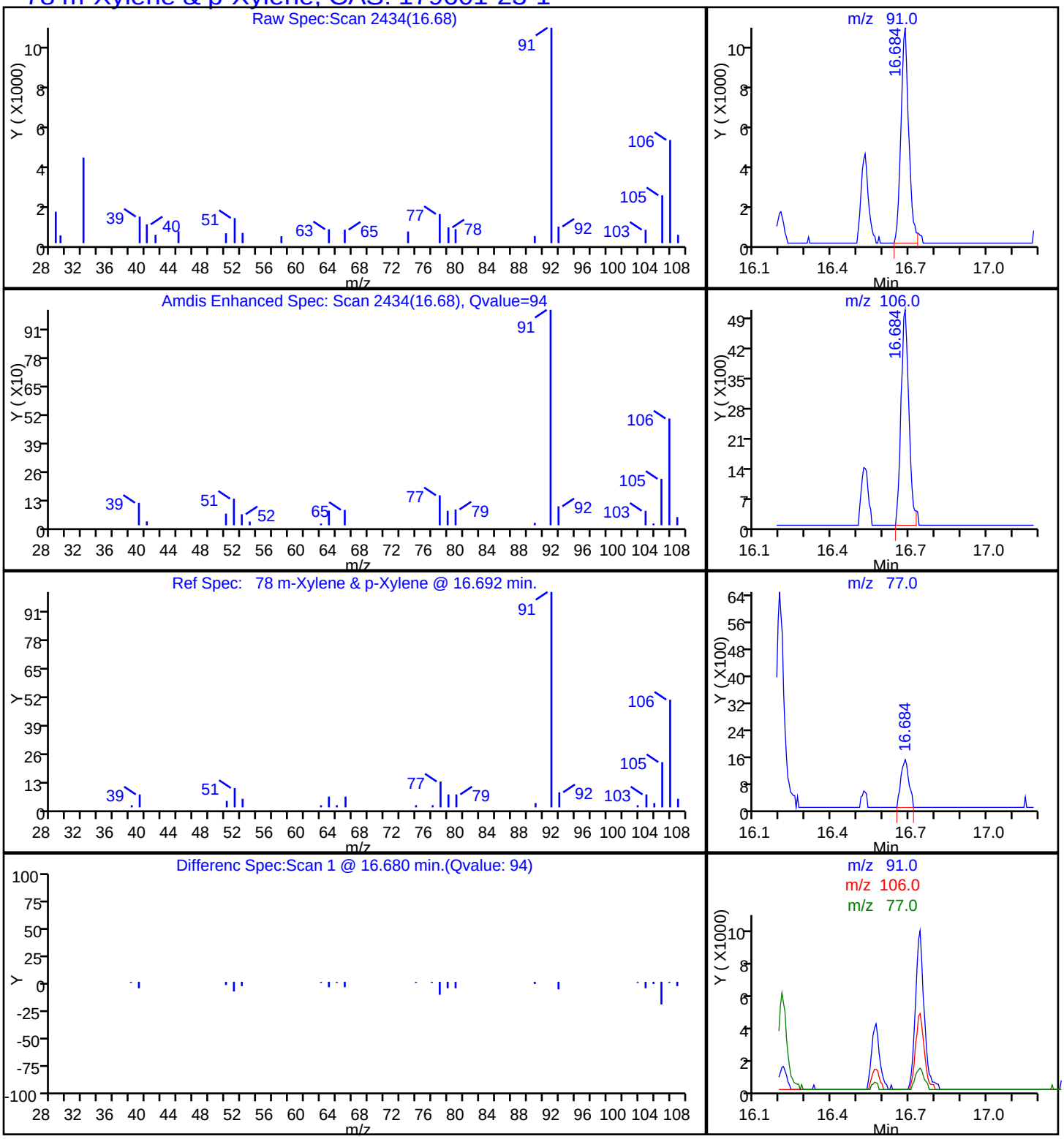
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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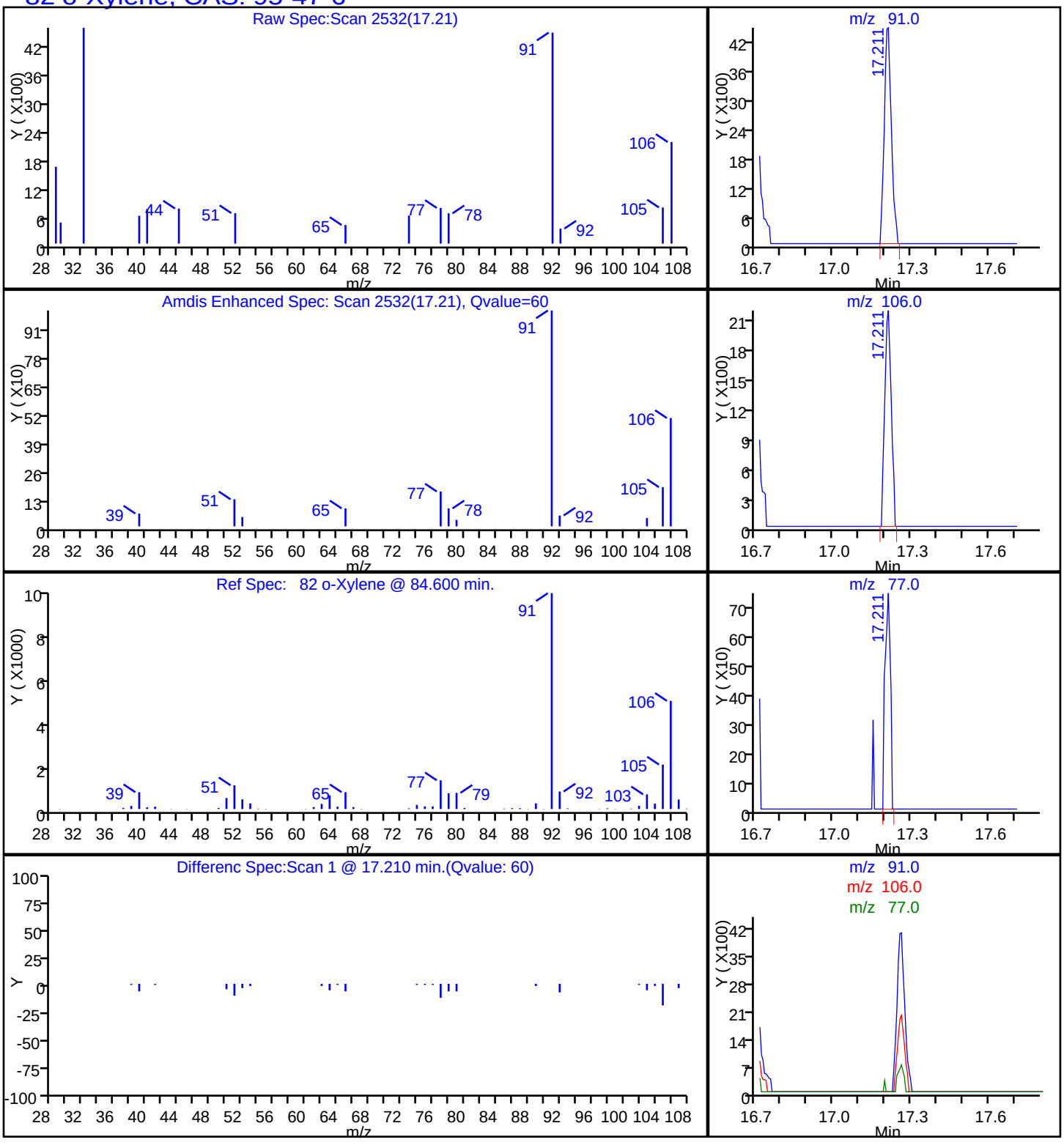
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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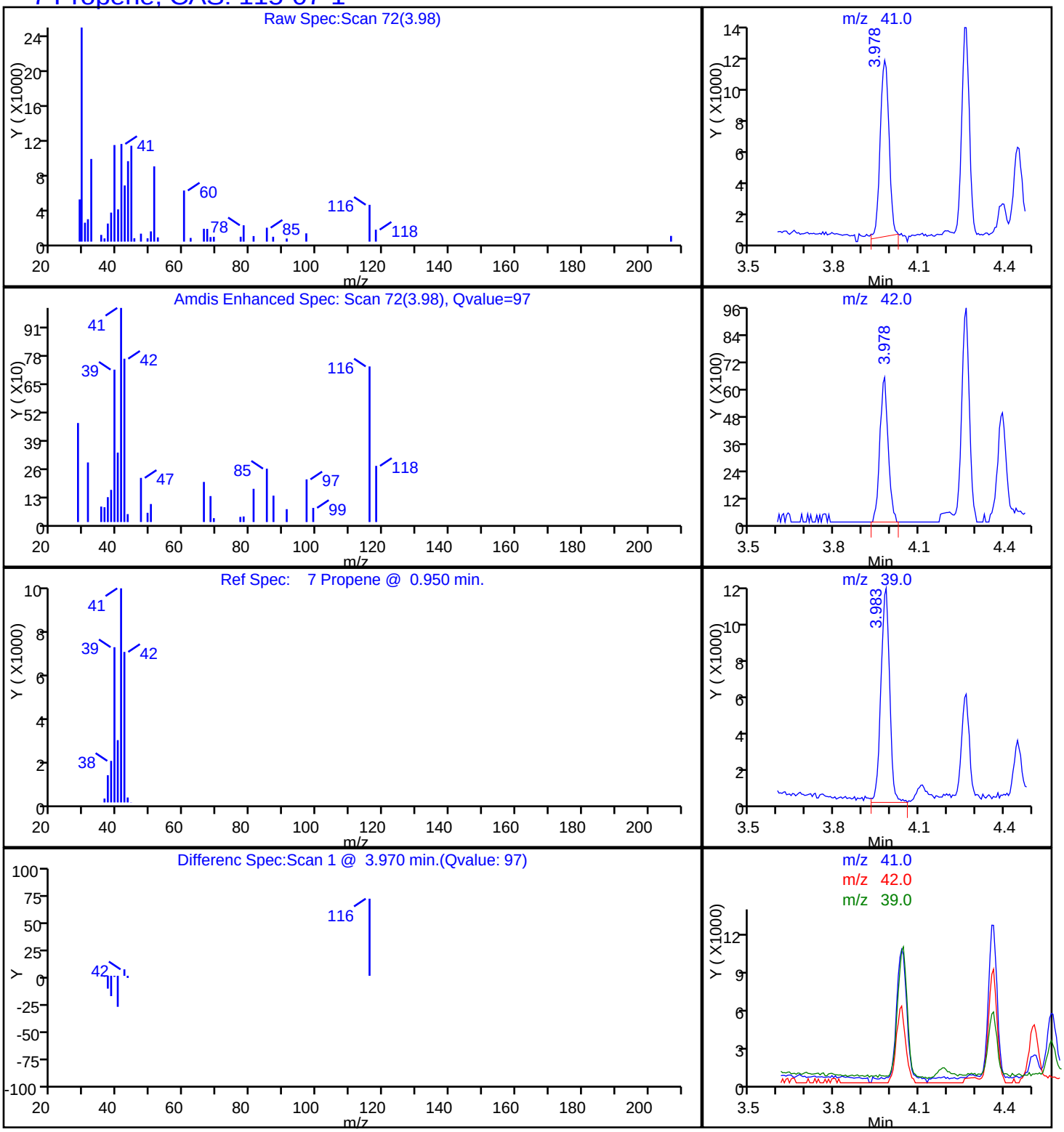
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1
Client ID:	IA4-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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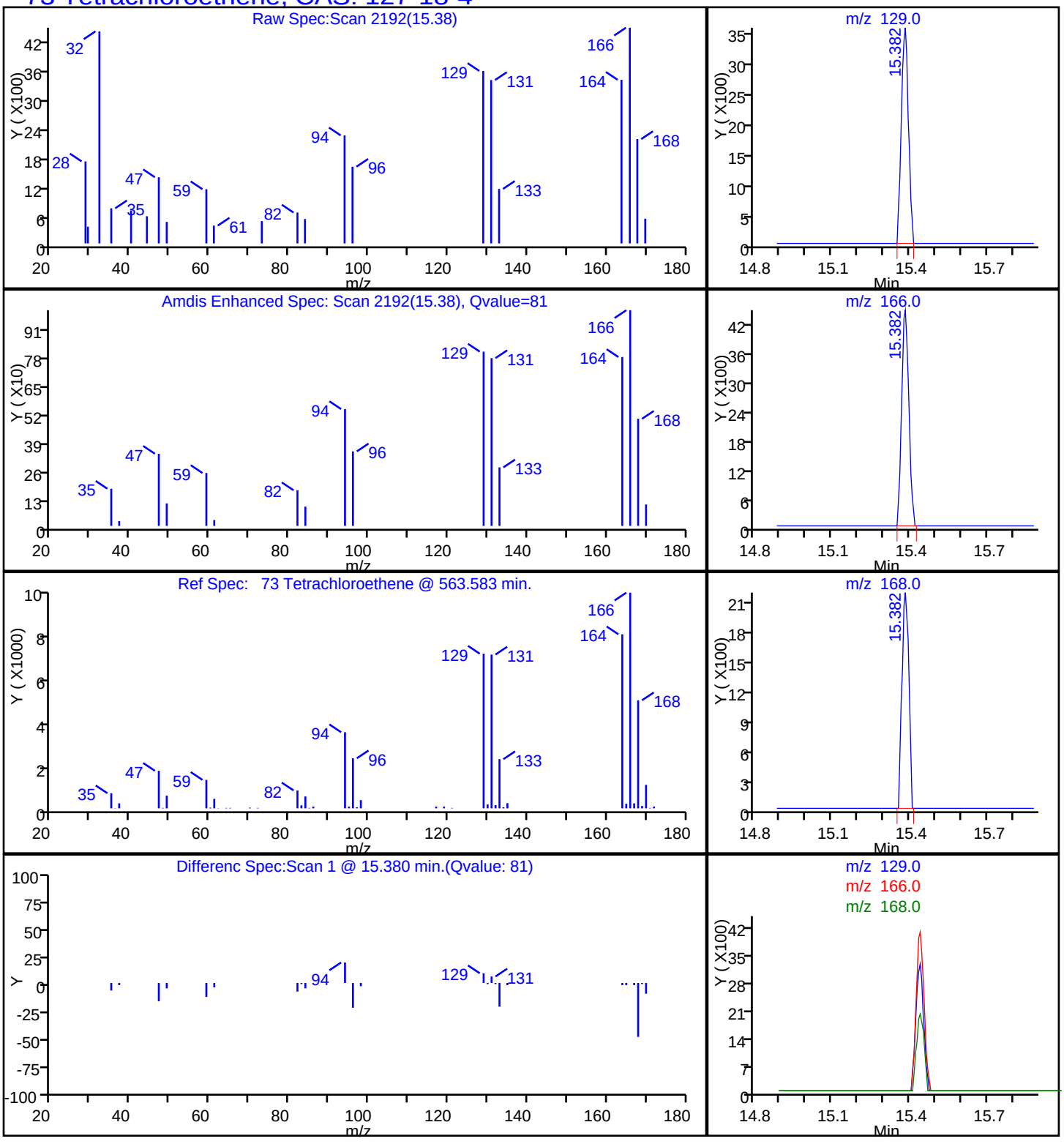
Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



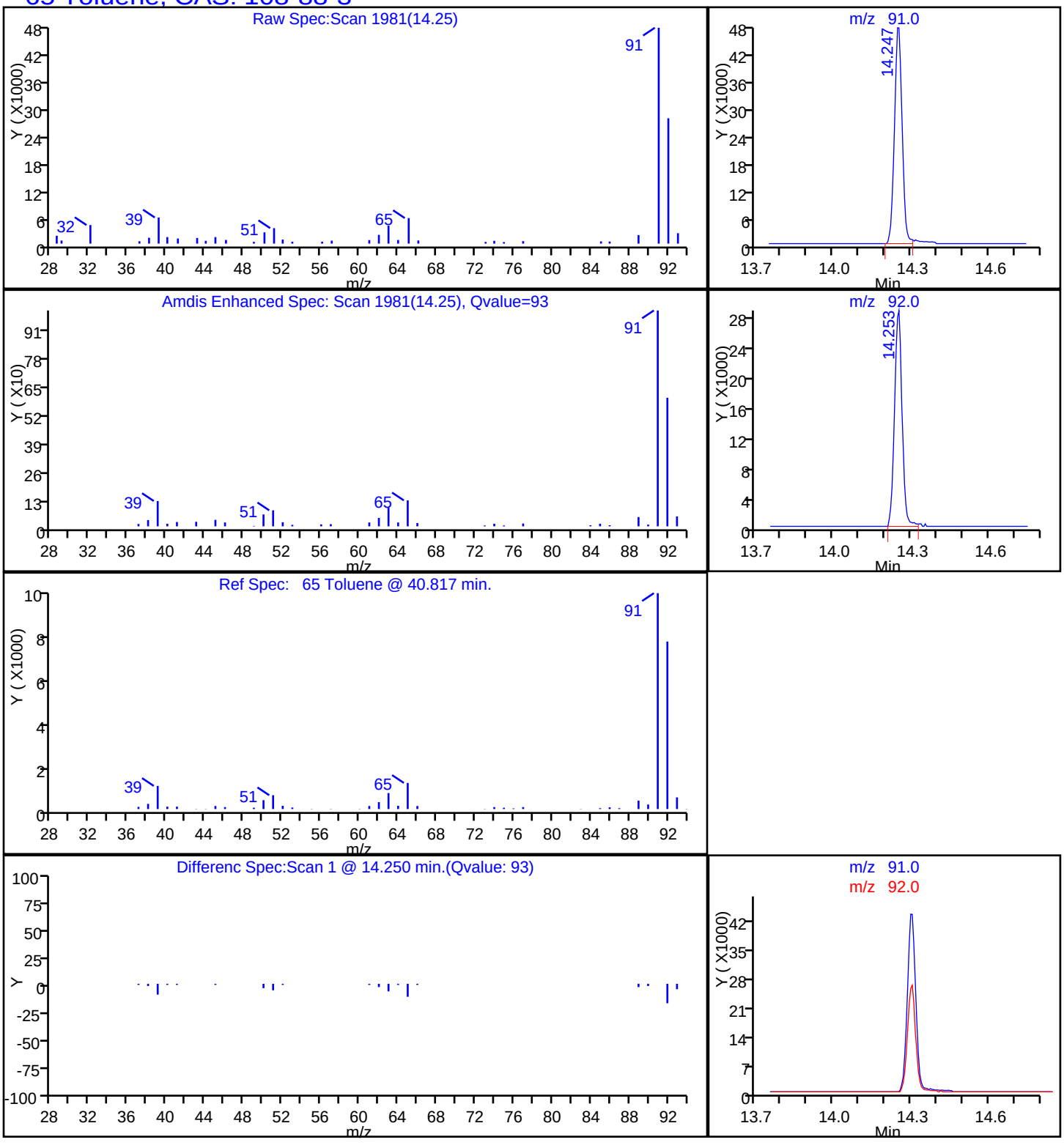
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



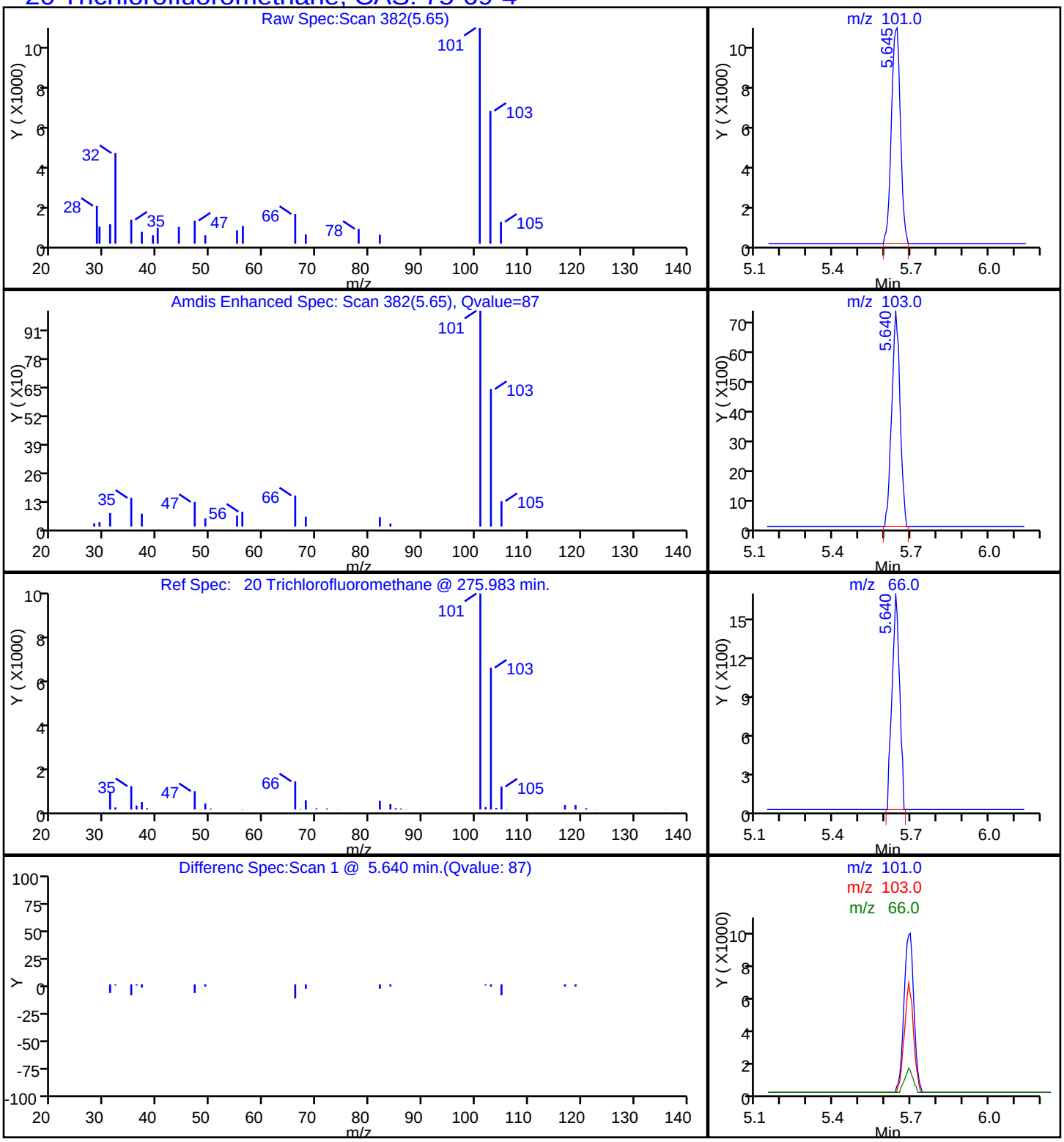
Report Date: 19-Mar-2014 17:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date:	19-Mar-2014 16:52:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-1	Lab Sample ID:	140-1063-1		
Client ID:	IA4-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4300		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.064	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.098	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.078	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.081	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.62	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.6		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.24		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.072	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.098	J	0.50	0.045
67-64-1	Acetone	58.08	6.7		5.0	1.4
71-43-2	Benzene	78.11	0.40		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.11	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.38	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	98		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.11	J	0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.35	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.71		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.32		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.13	J	0.20	0.061
115-07-1	Propene	42.08	2.2	cn	0.50	0.077
100-42-5	Styrene	104.15	0.068	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.27		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	2.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.49	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.48	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.47	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.38	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	7.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.84		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.36	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.40	J	2.0	0.18
67-64-1	Acetone	58.08	16		12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.56	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	1.3	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	190		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.49	J	0.87	0.30
142-82-5	Heptane	100.21	0.76	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.2	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.5		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.55	J	0.87	0.26
115-07-1	Propene	42.08	3.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.29	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.8		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	8.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2

Matrix: Air Lab File ID: JC18P205.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:40

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D
Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2
Client ID: IA5-E14
Sample Type: Client
Inject. Date: 18-Mar-2014 23:43:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-2
Misc. Info.: J031814,TO15,,140-0000527-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:56:39 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: liul Date: 20-Mar-2014 14:56:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.388	-0.004	90	379483	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.539	-0.003	94	1809160	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.198	0.002	86	1510580	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.817	0.002	91	1003098	3.75	
7 Propene	41	3.988	3.971	0.017	95	102245	0.8787	
8 Dichlorodifluoromethane	85	4.031	4.030	0.001	96	63024	0.1677	
9 Chloromethane	52	4.230	4.229	0.001	96	10109	0.2367	
17 Ethanol	31	5.123	5.116	0.007	94	1198848	39.3	
19 2-Methylbutane	43	5.414	5.407	0.007	93	166401	1.03	
20 Trichlorofluoromethane	101	5.645	5.644	0.001	88	26522	0.0803	
23 Acetone	58	5.763	5.767	-0.004	98	145527	2.70	
24 Isopropyl alcohol	45	5.855	5.848	0.007	92	278112	1.95	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.586	6.580	0.006	60	5816	0.0254	
31 Methylene Chloride	84	6.753	6.757	-0.004	91	28658	0.2823	
35 2-Methylpentane	43	7.625	7.623	0.002	87	27963	0.0955	
39 2-Butanone (MEK)	72	8.598	8.586	0.012	82	8865	0.2468	
40 Hexane	56	8.636	8.635	0.001	89	14236	0.1395	
43 Chloroform	83	9.400	9.393	0.007	42	10102	0.0457	
48 Benzene	78	11.019	11.023	-0.004	95	50190	0.1617	
49 Cyclohexane	69	11.035	11.034	0.001	83	9334	0.1524	
50 Carbon tetrachloride	117	11.046	11.050	-0.004	77	6584	0.0257	
53 Isooctane	57	11.761	11.760	0.001	77	17216	0.0325	
54 n-Heptane	71	12.122	12.120	0.002	79	8183	0.0745	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.368	0.013	84	7403	0.0390	
65 Toluene	91	14.252	14.256	-0.004	93	238187	0.8500	
73 Tetrachloroethene	129	15.382	15.386	-0.004	83	13974	0.1070	
76 Ethylbenzene	91	16.528	16.532	-0.004	67	14063	0.0454	
78 m-Xylene & p-Xylene	91	16.684	16.688	-0.004	96	32430	0.1298	
80 Styrene	104	17.146	17.150	-0.004	32	4691	0.0273	
82 o-Xylene	91	17.211	17.215	-0.004	72	12890	0.0509	
88 4-Ethyltoluene	105	18.459	18.447	0.012	1	9722	0.0289	

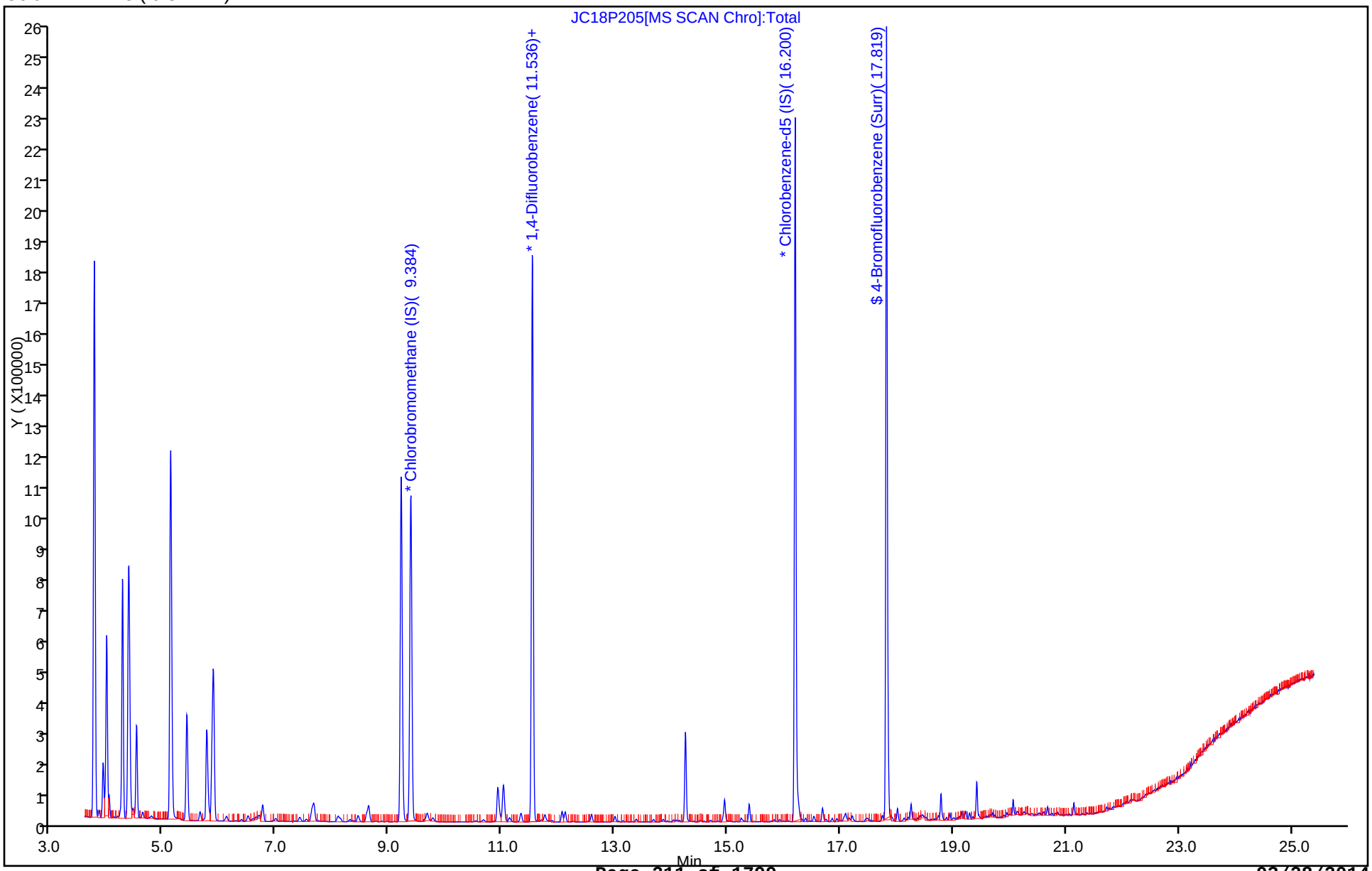
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.943	18.942	0.001	72	11532	0.0393	
97 1,4-Dichlorobenzene	146	19.298	19.297	0.001	65	5582	0.0311	

Report Date: 20-Mar-2014 14:56:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D				
Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2	Worklist Smp#:	11
Client ID:	IA5-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



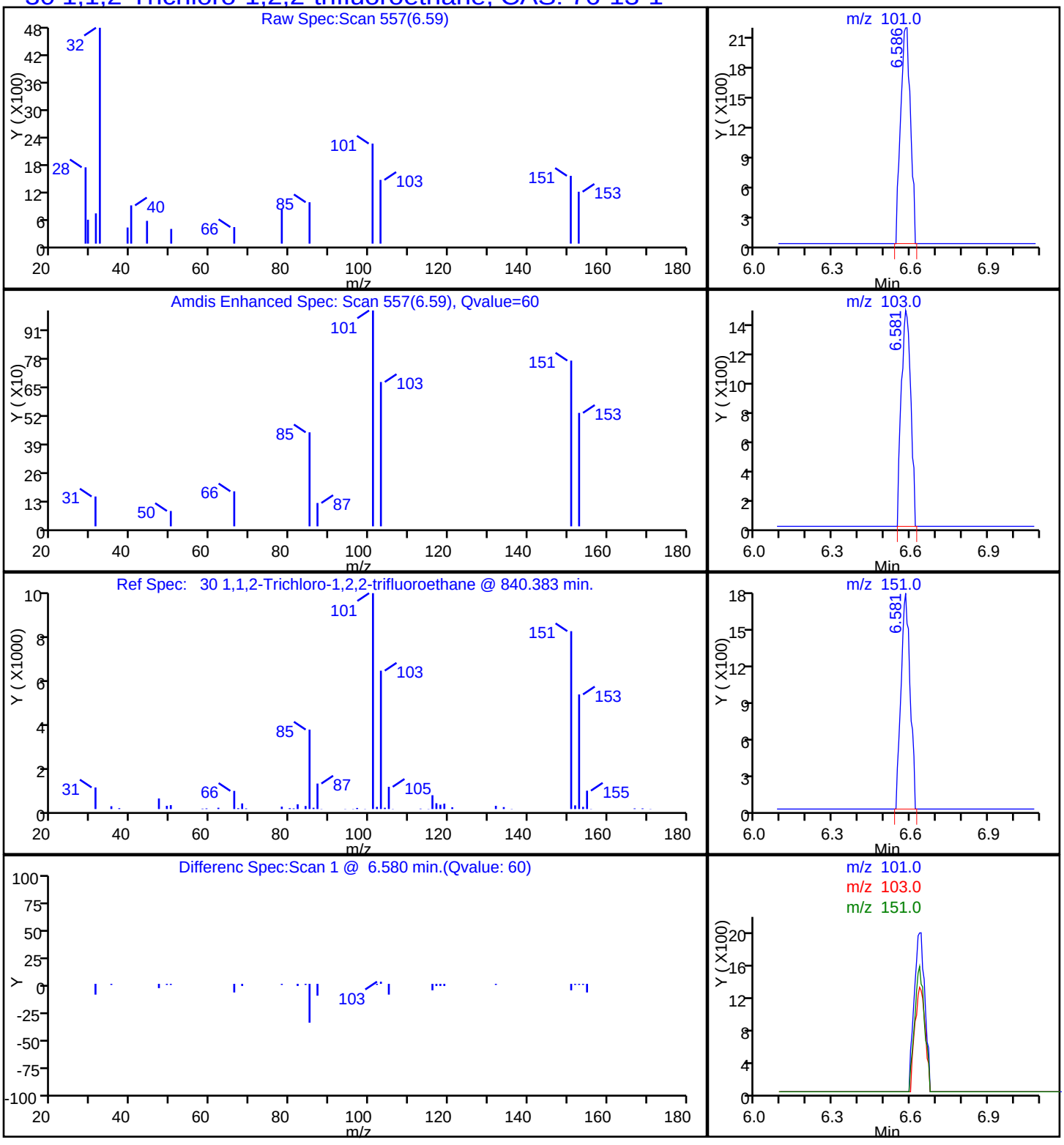
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

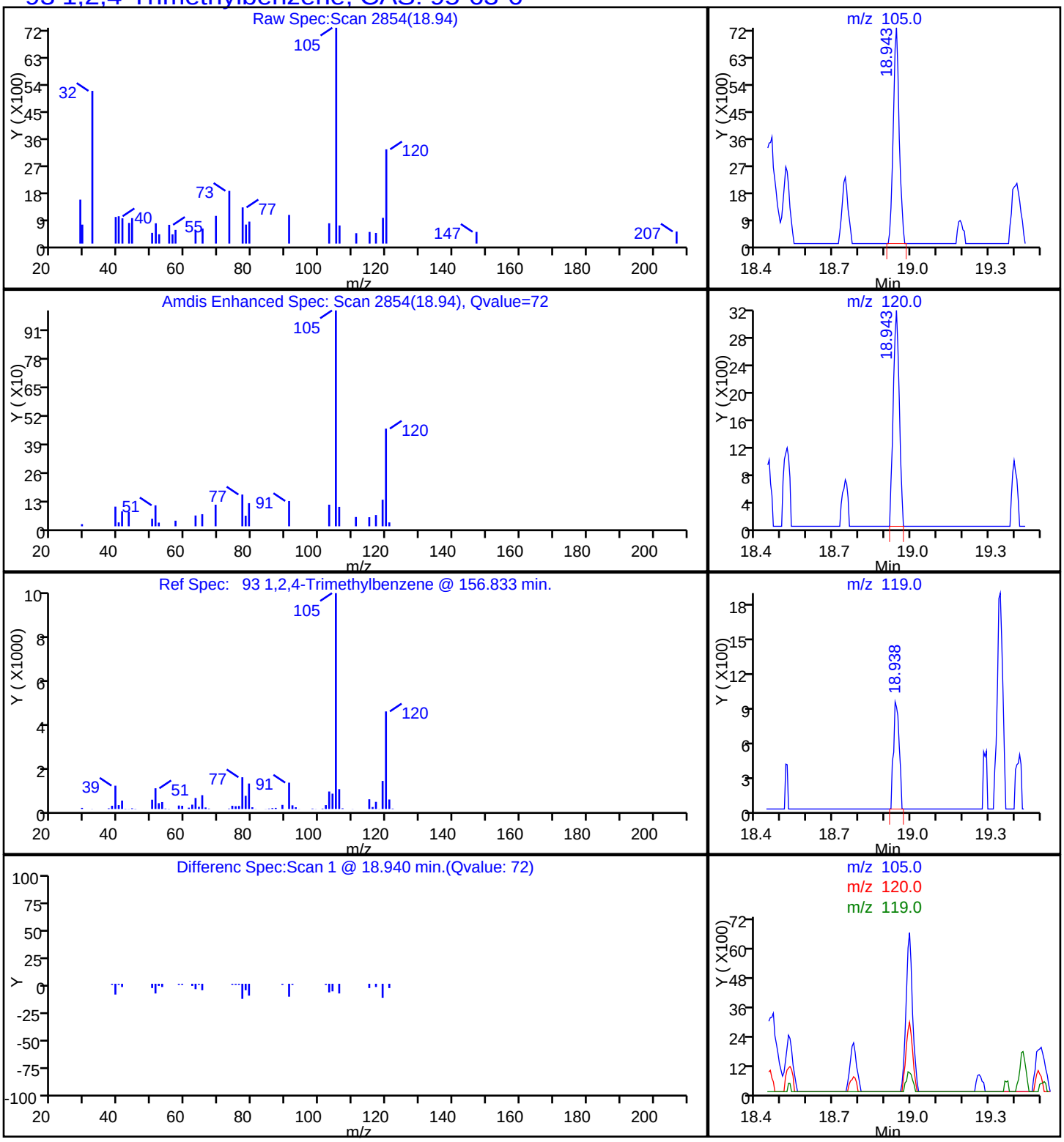


Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D				
Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30 Instrument ID: MJ

Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2

Client ID: IA5-E14

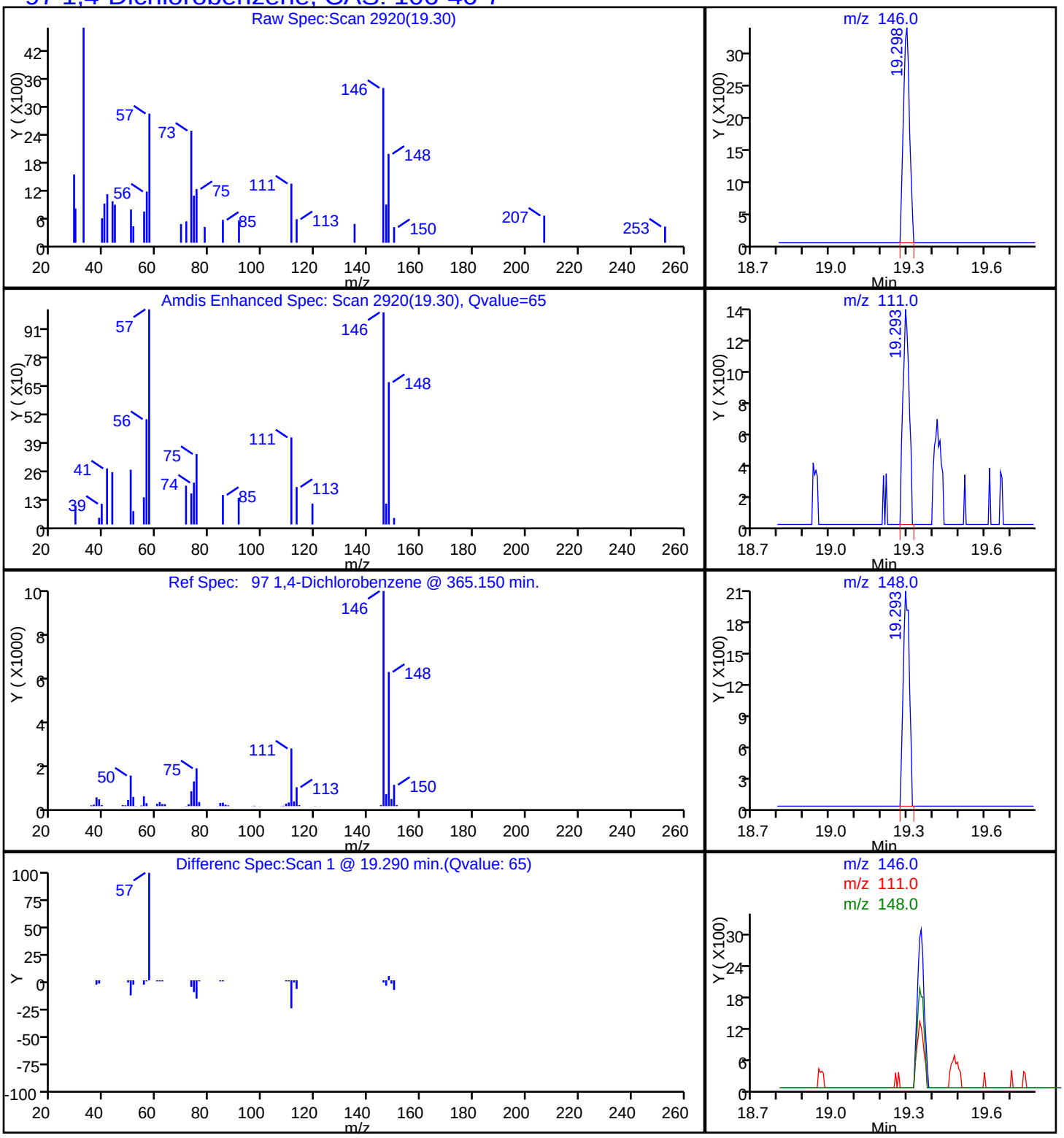
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30 Instrument ID: MJ

Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2

Client ID: IA5-E14

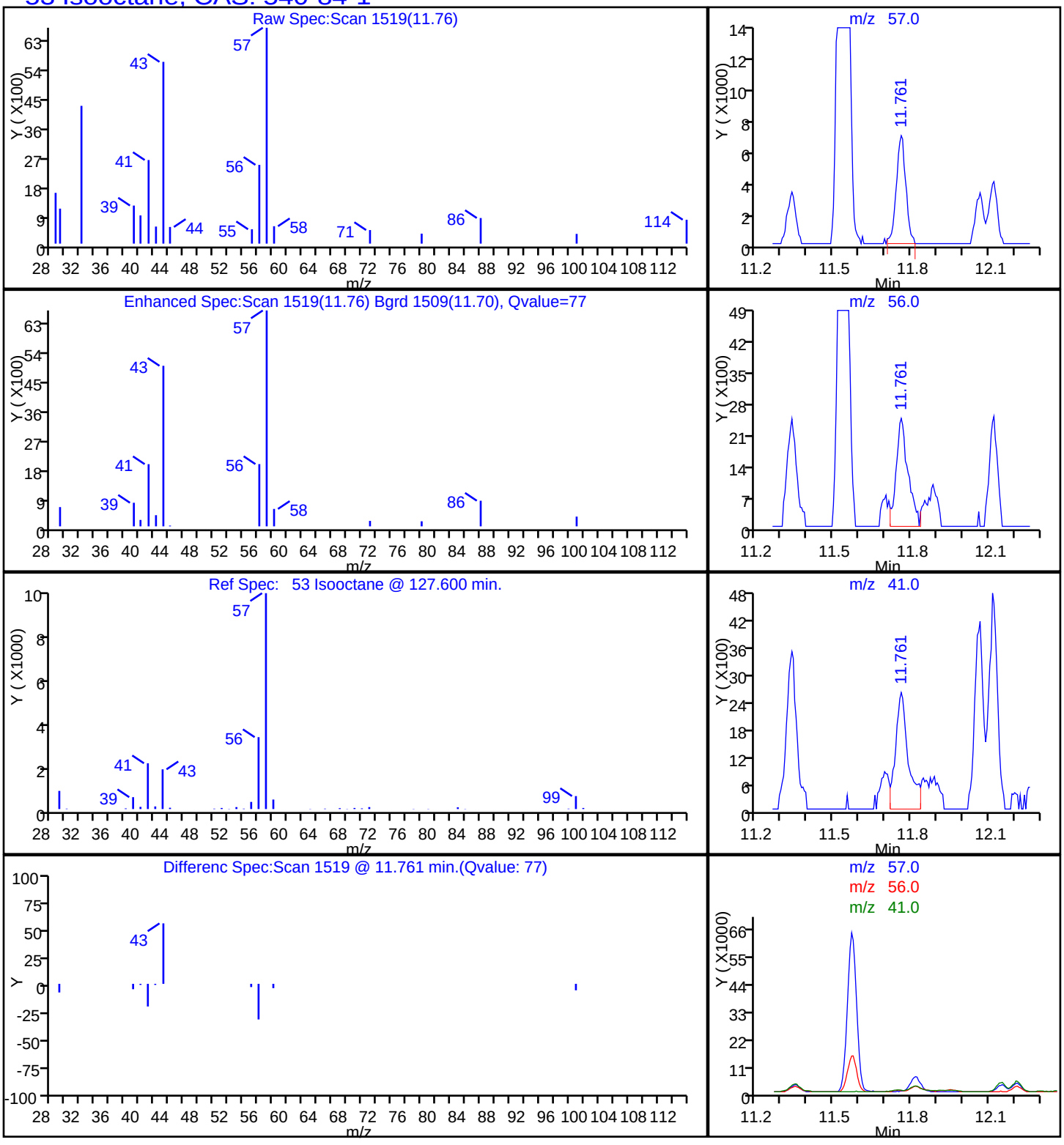
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



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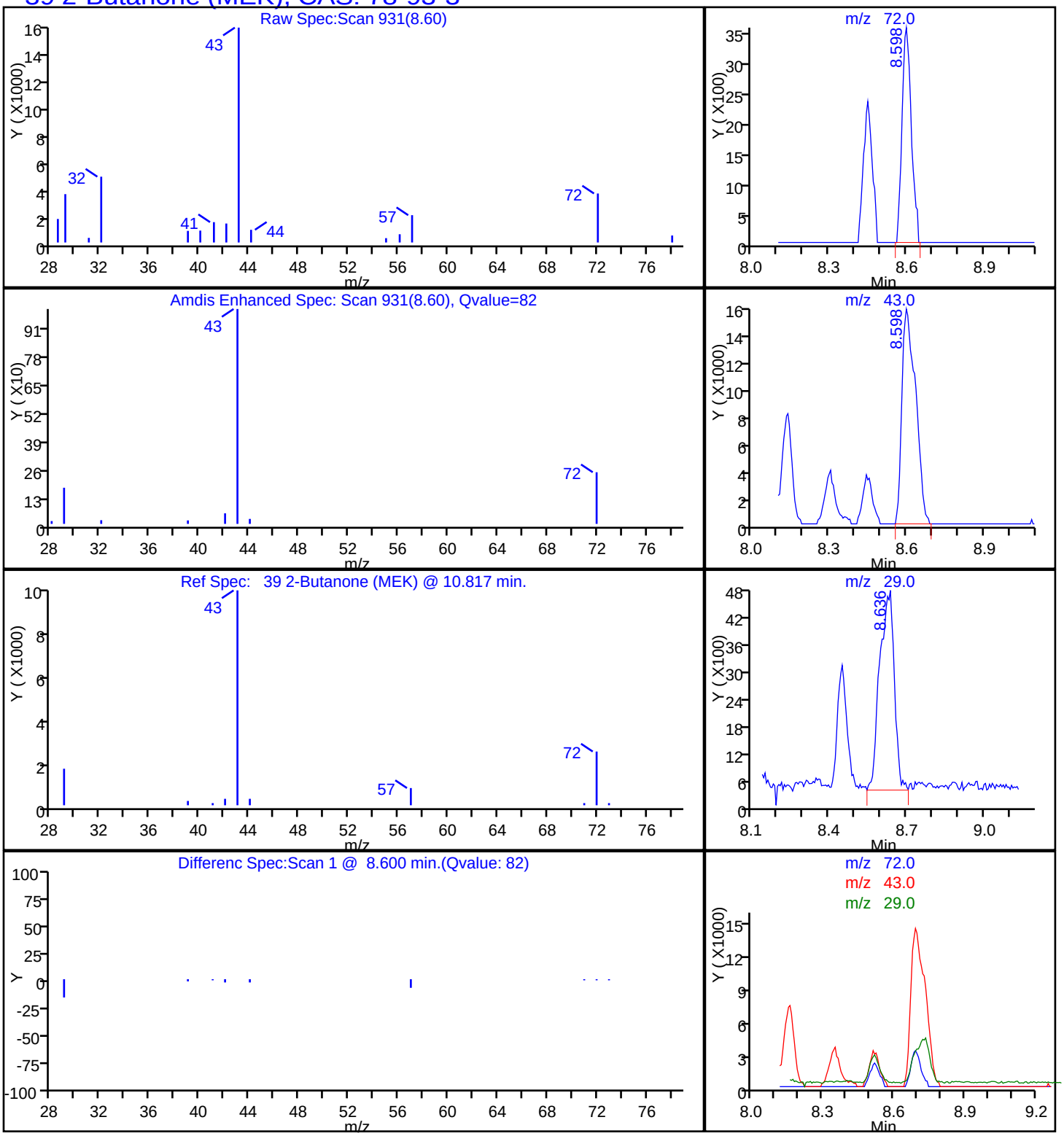
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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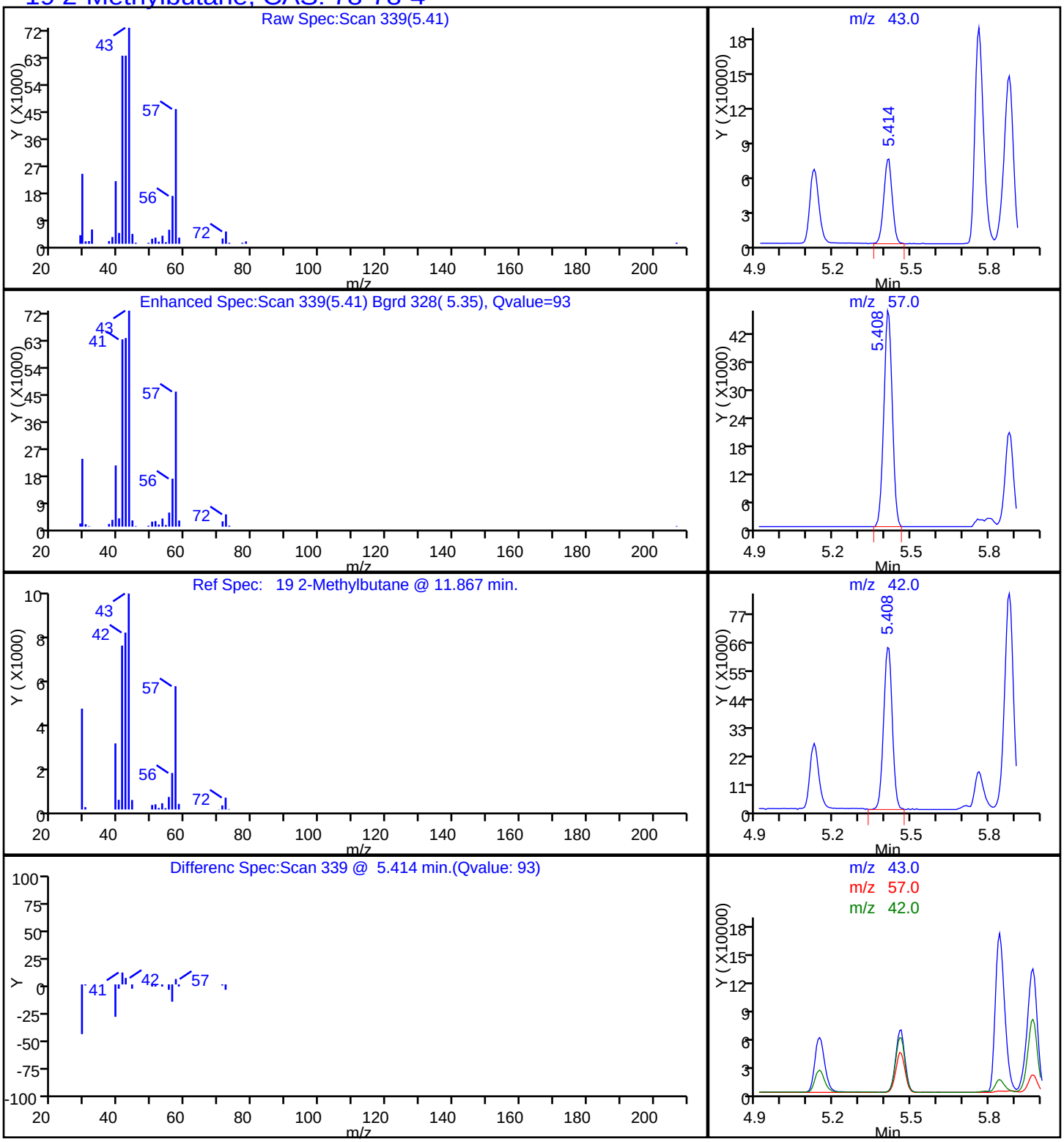
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



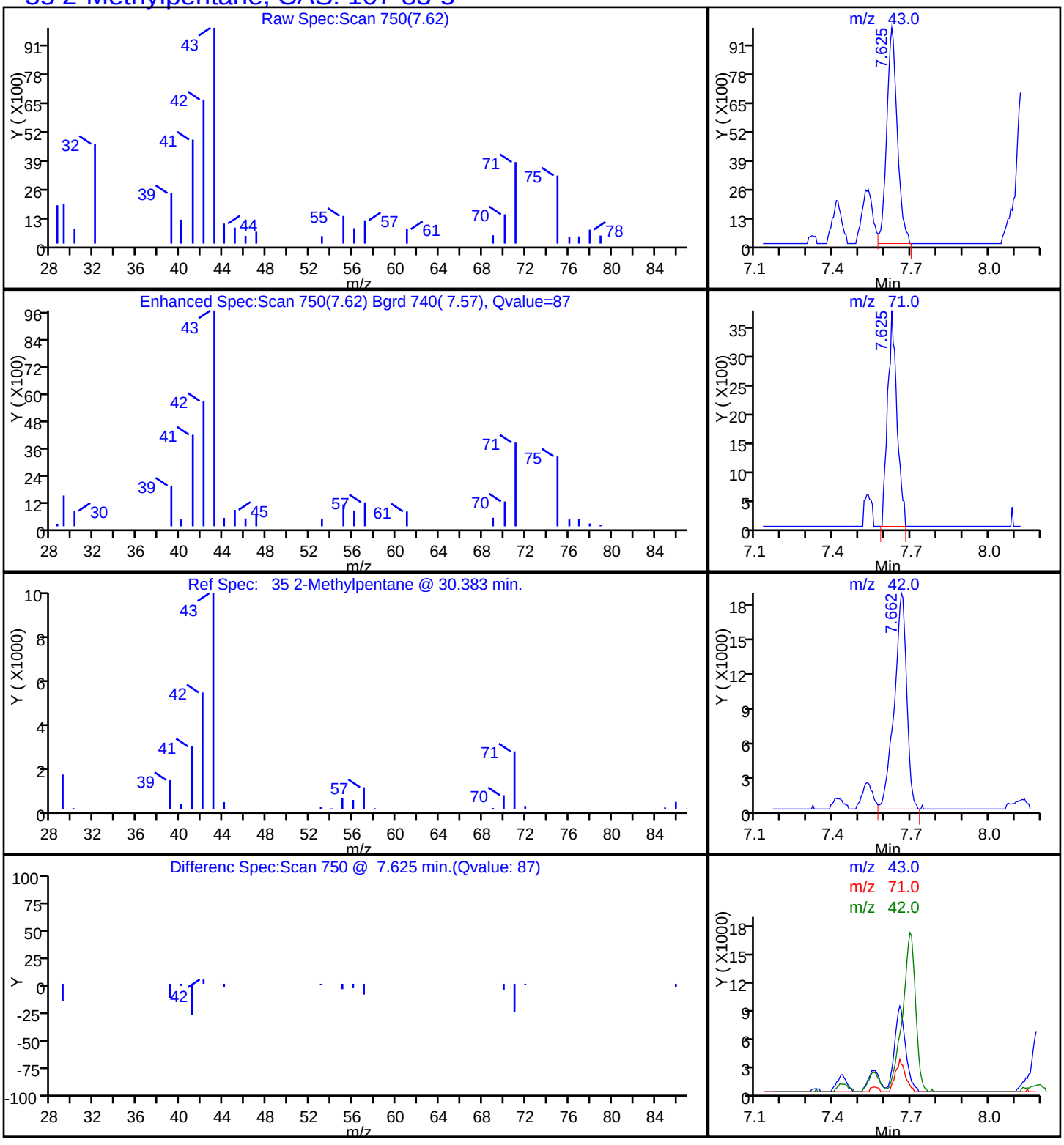
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30 Instrument ID: MJ

Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2

Client ID: IA5-E14

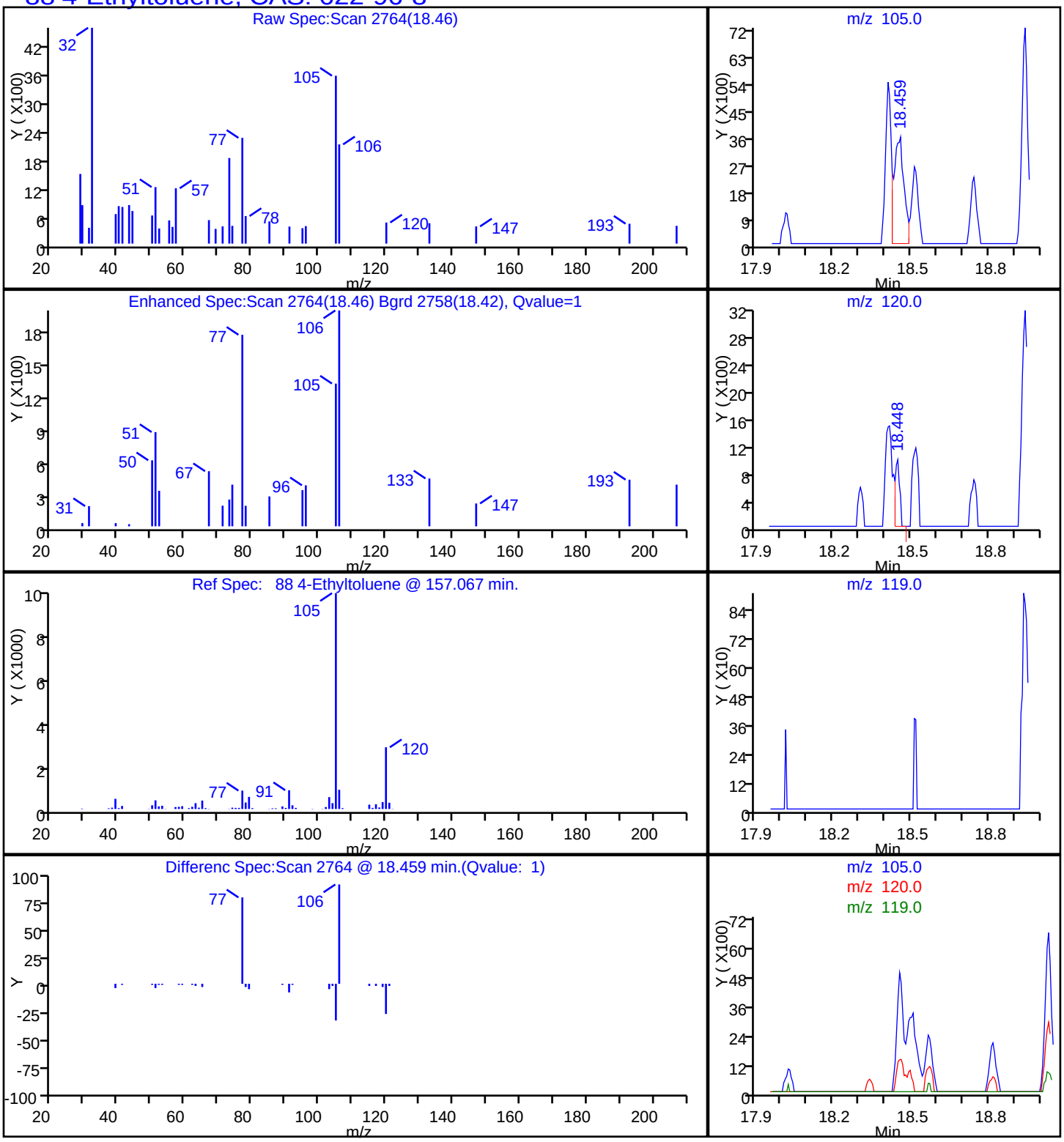
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

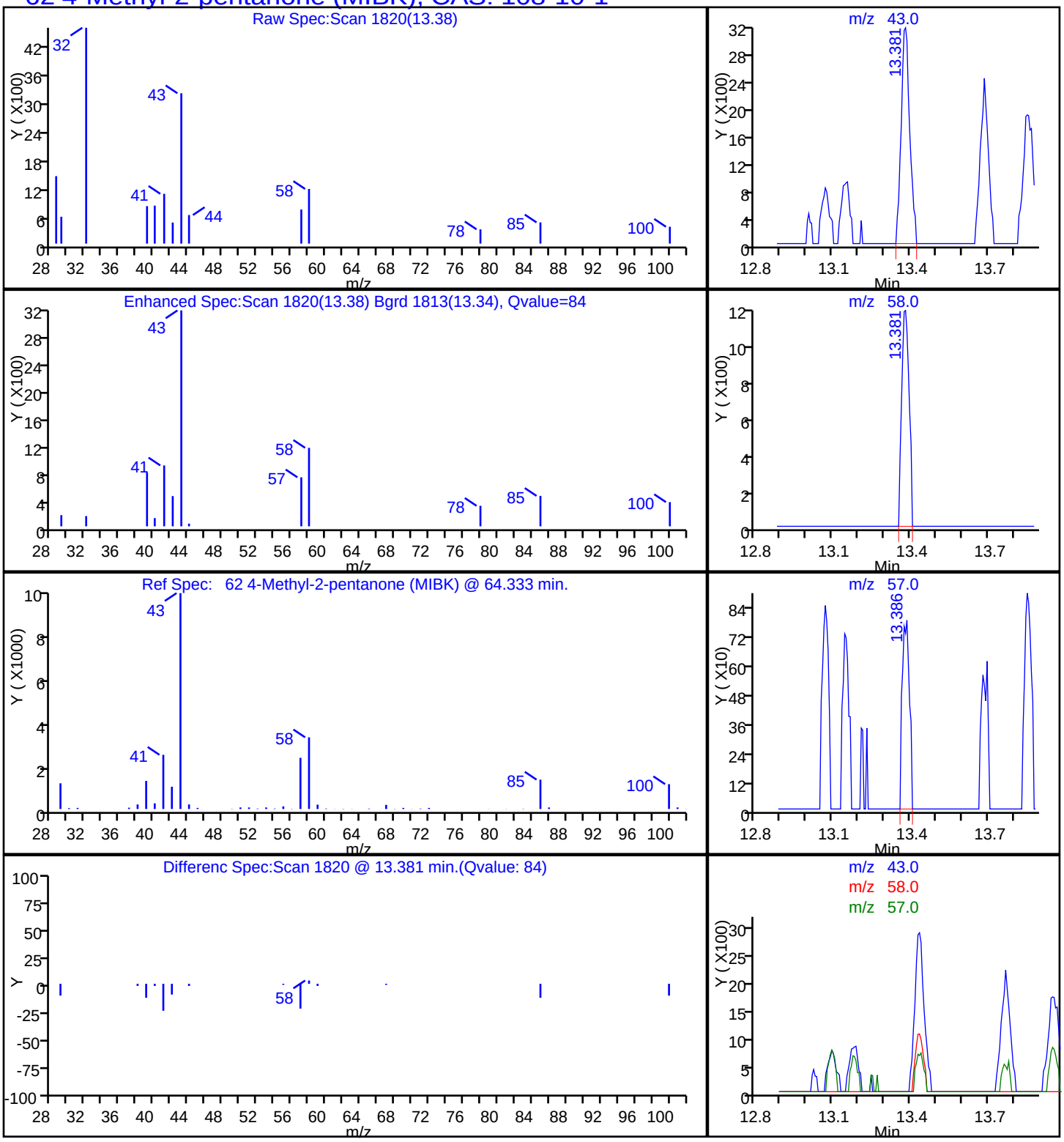


Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D				
Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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TestAmerica Knoxville

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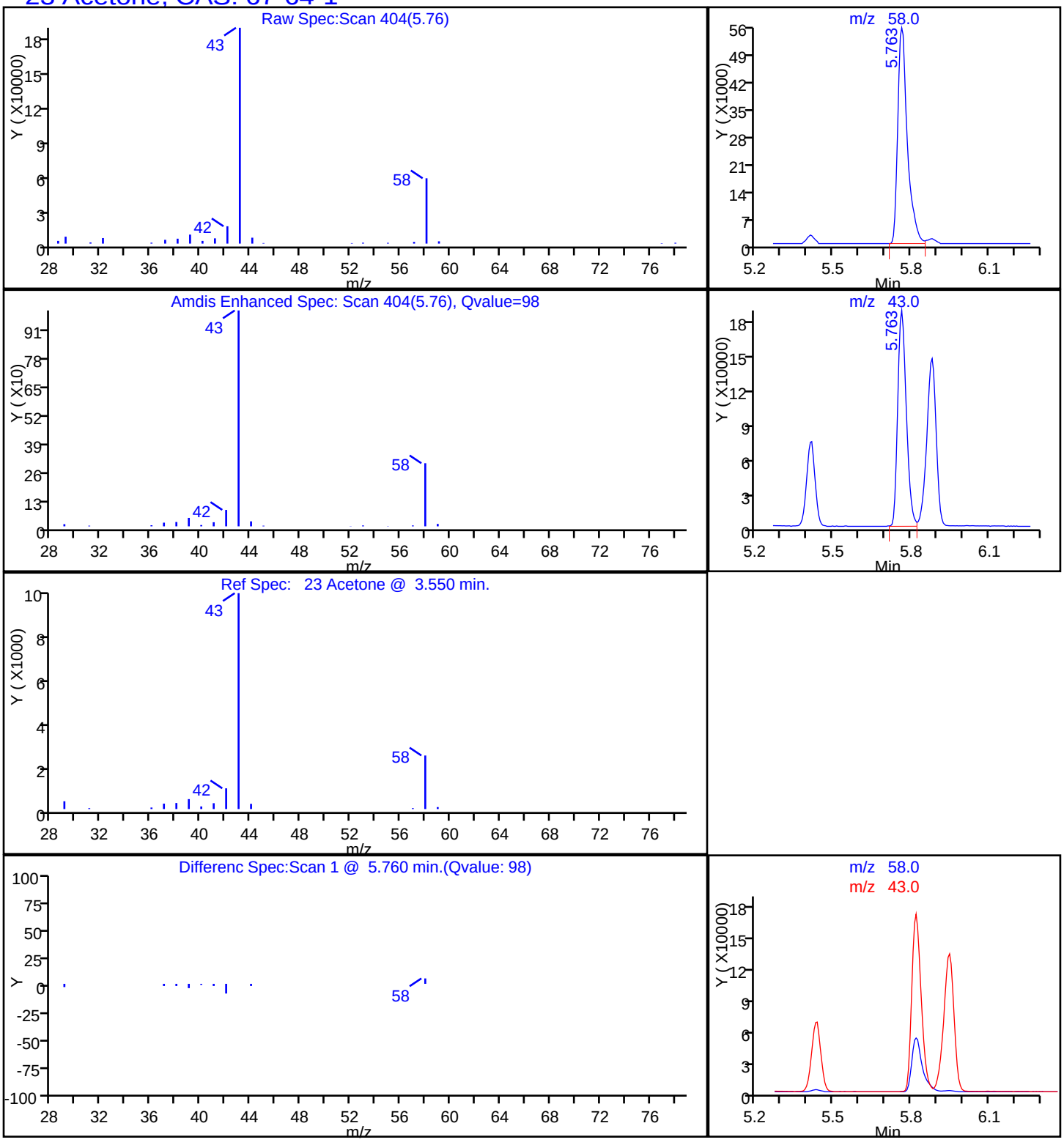
Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



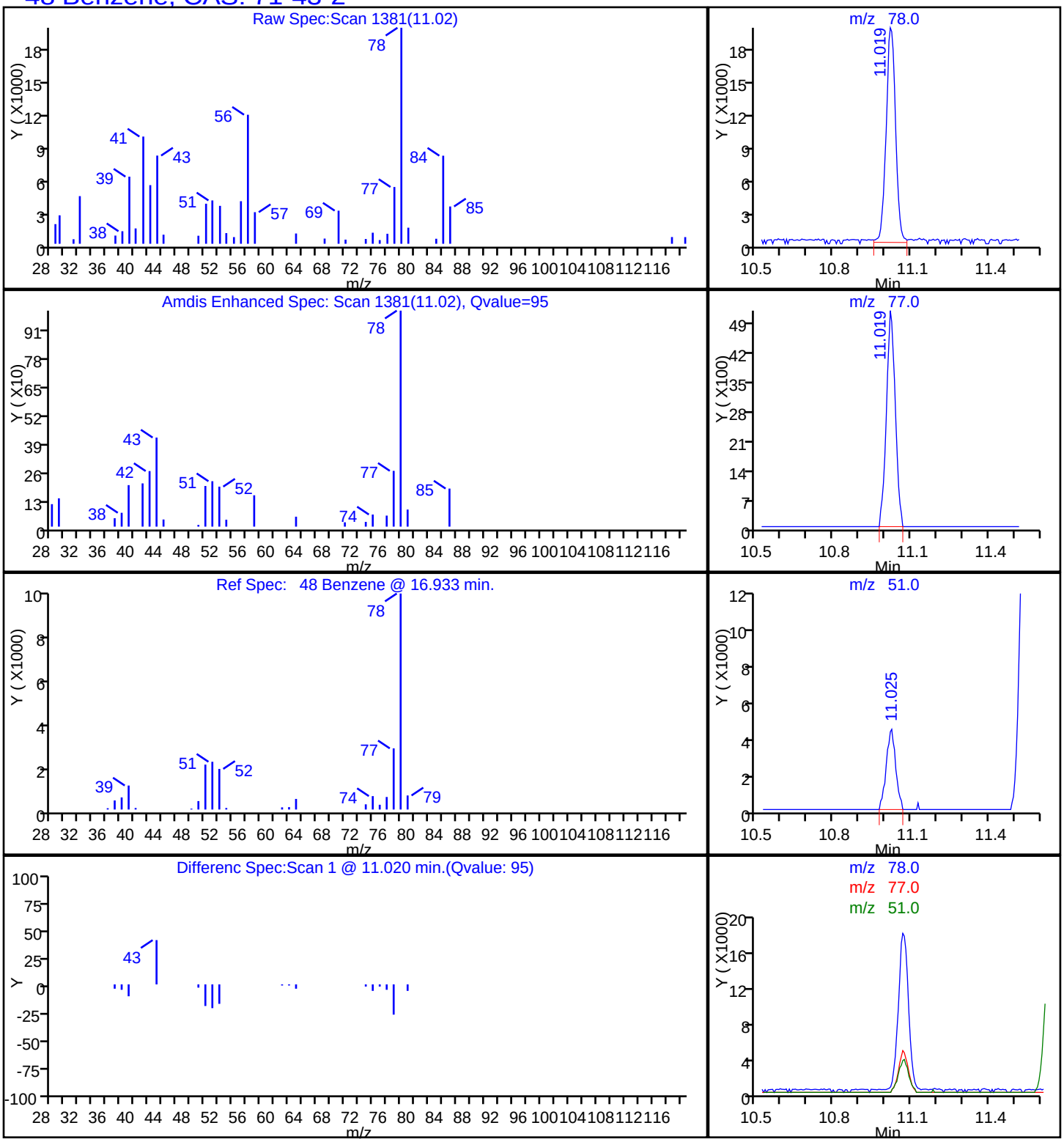
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



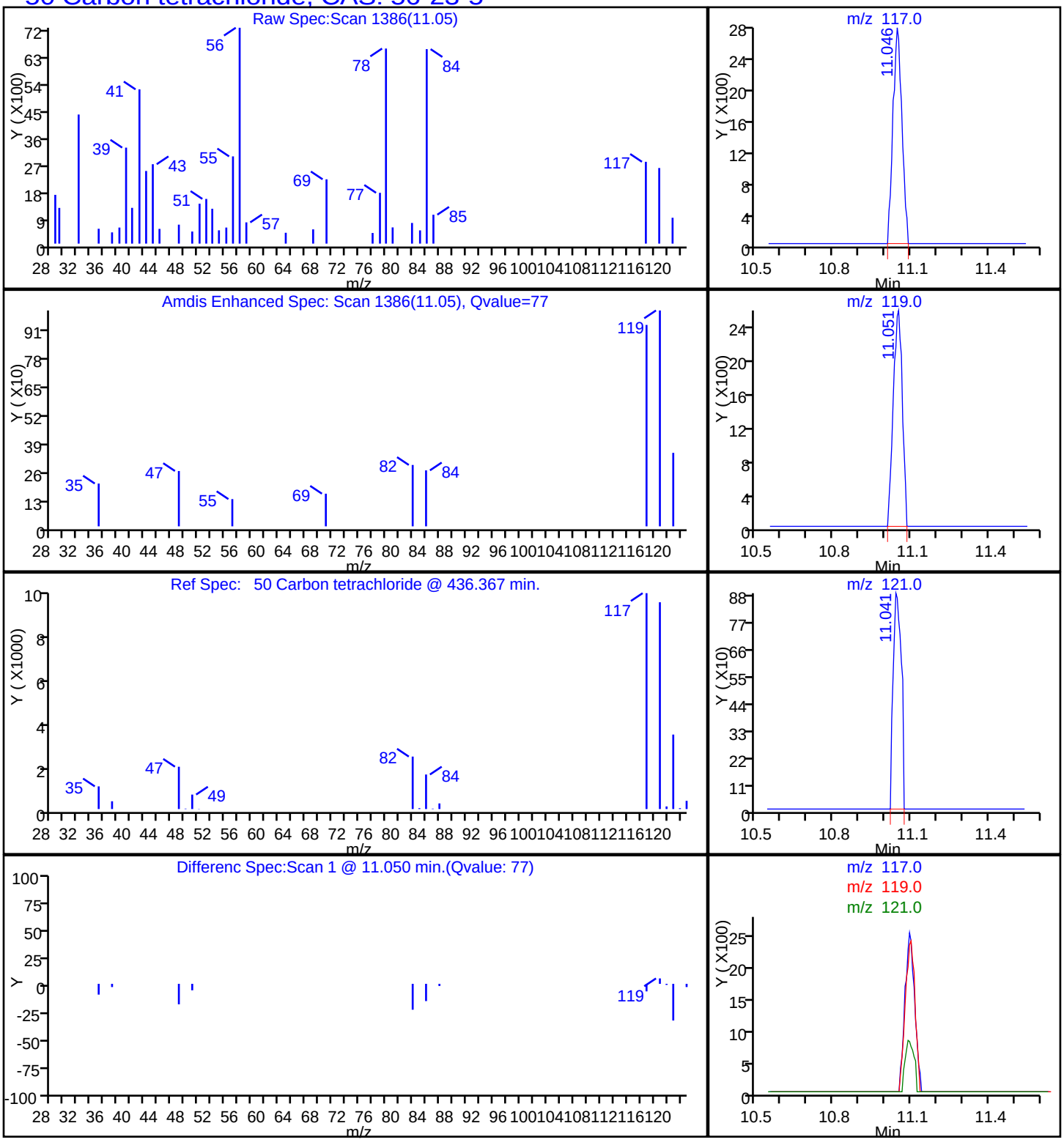
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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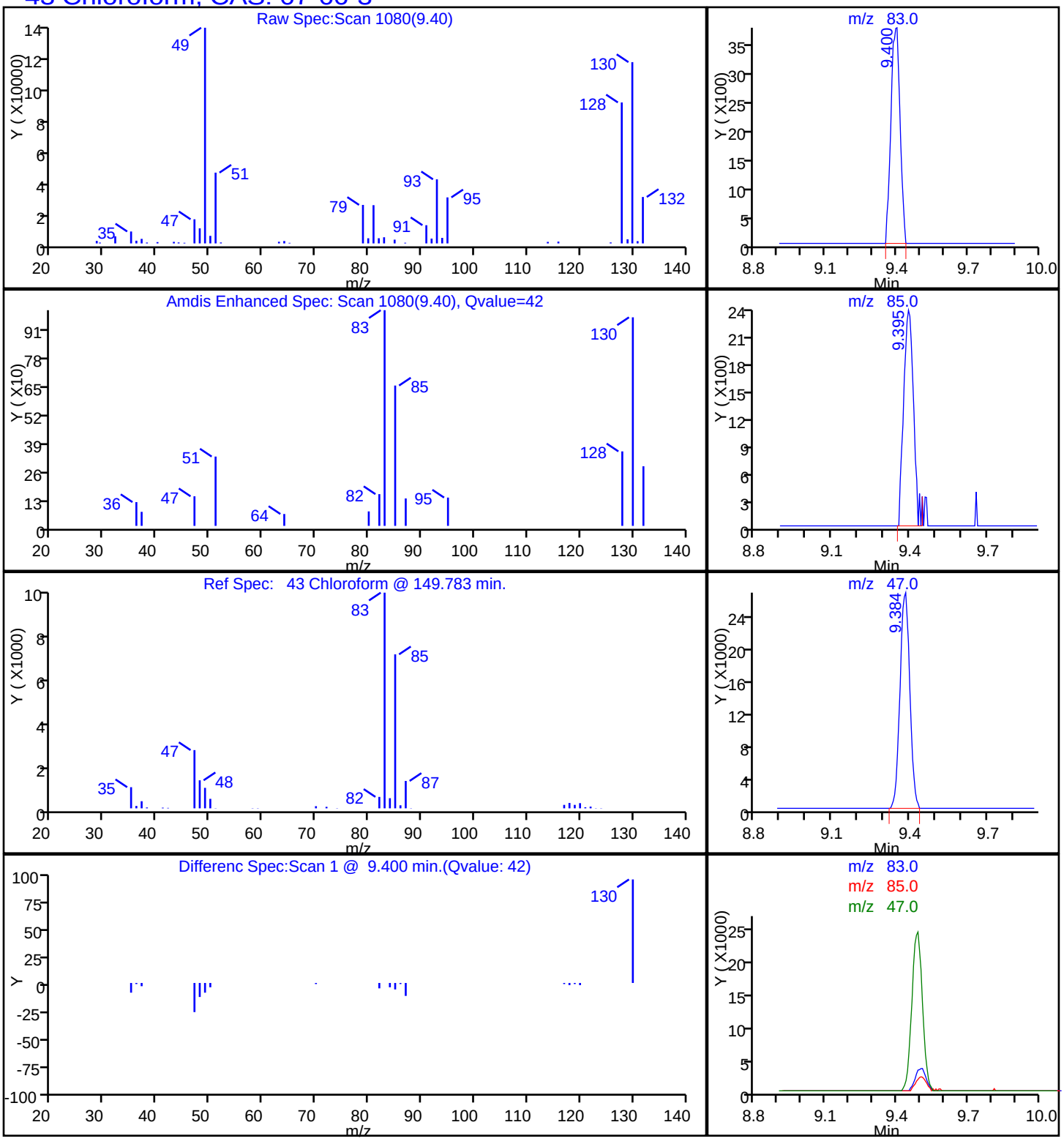
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



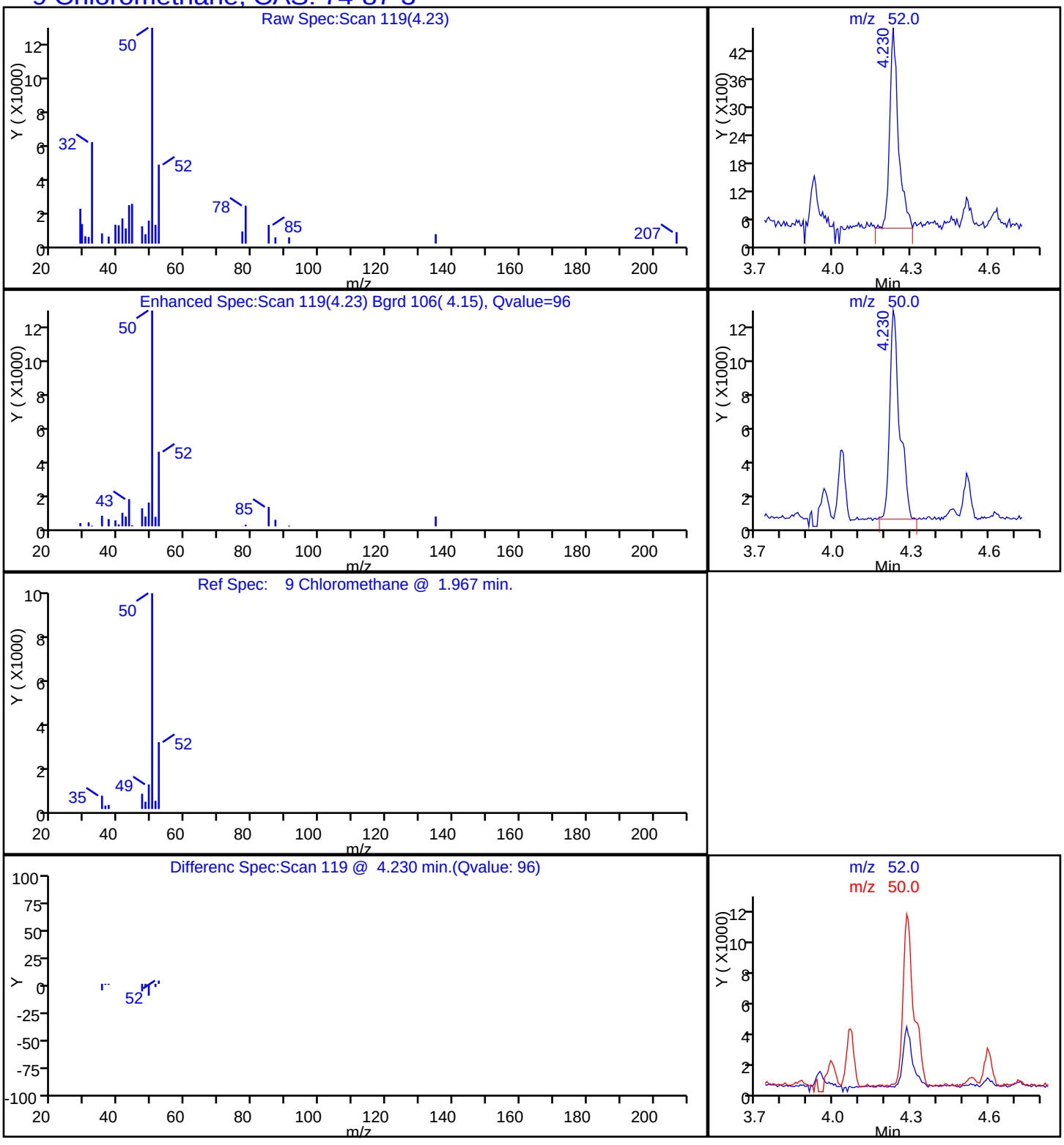
Report Date: 20-Mar-2014 14:56:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30 Instrument ID: MJ

Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2

Client ID: IA5-E14

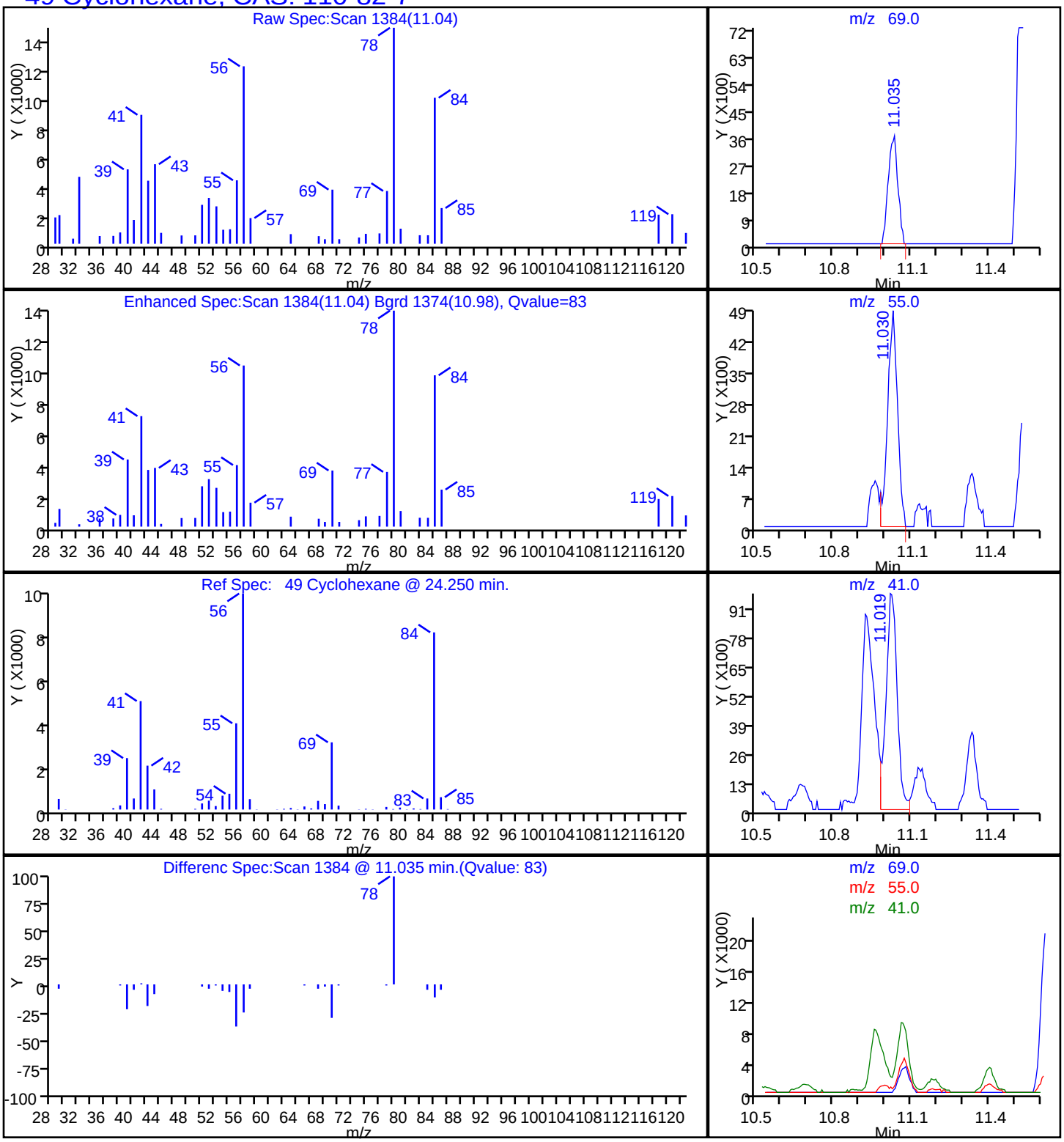
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



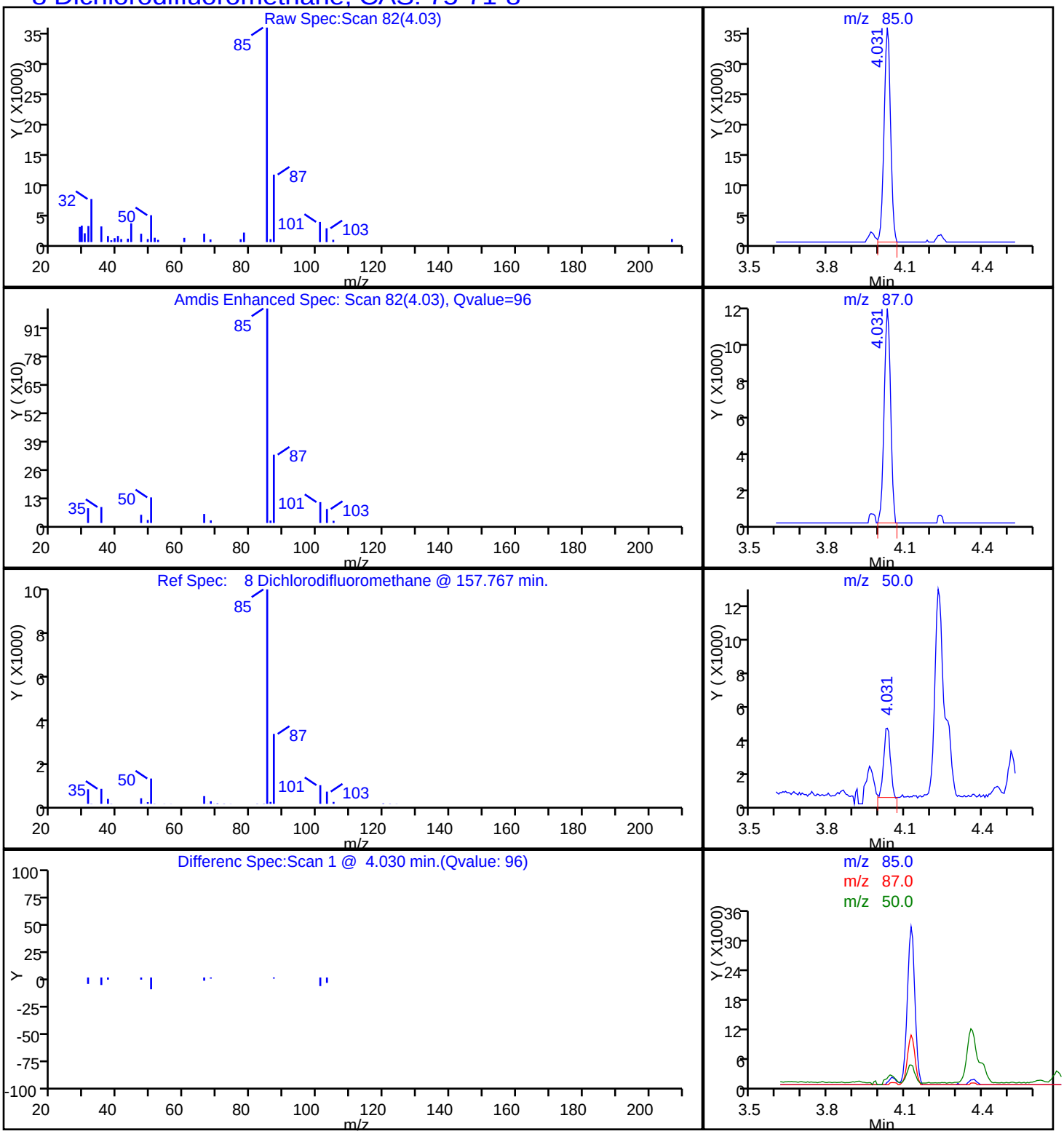
Report Date: 20-Mar-2014 14:56:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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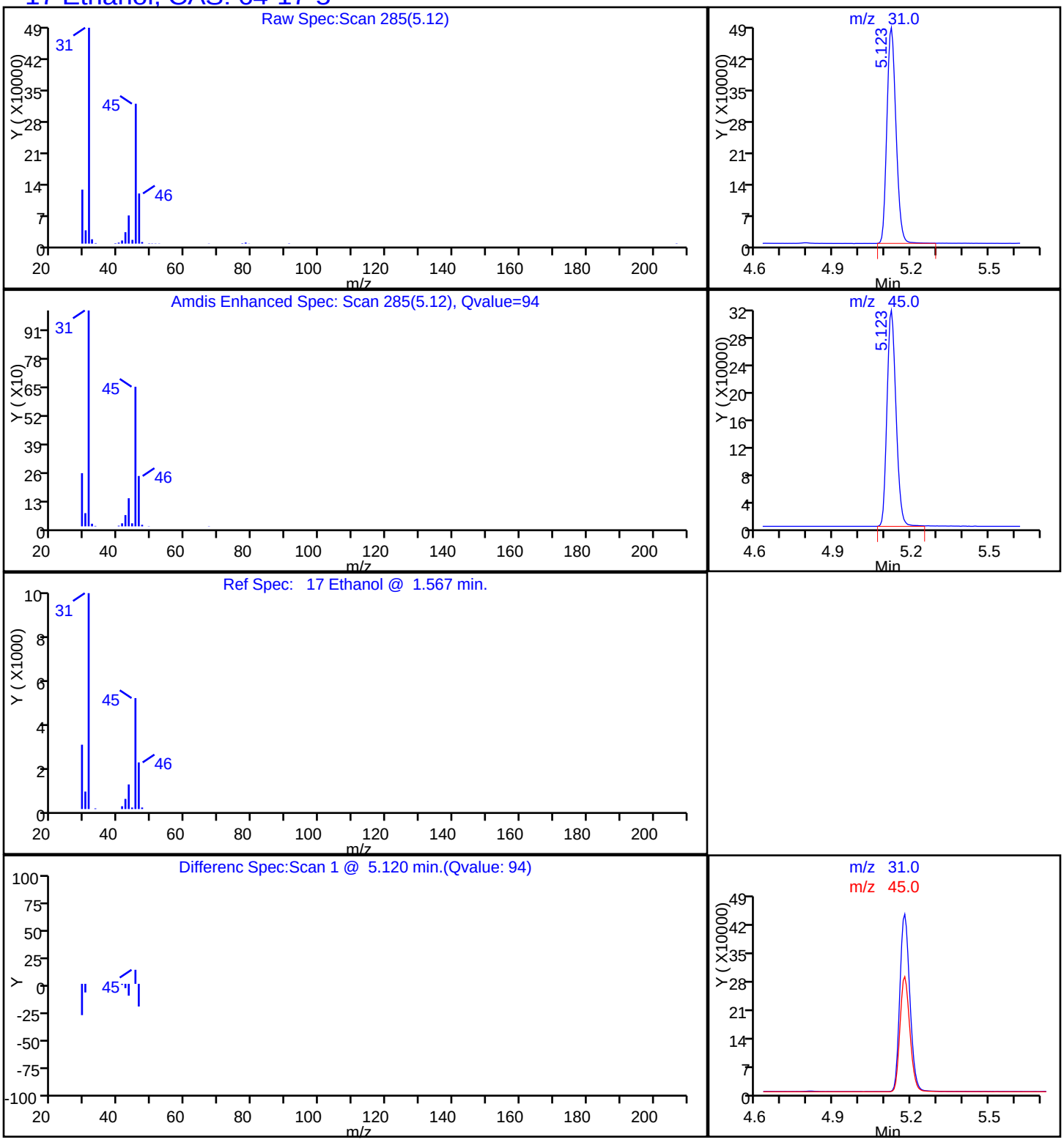
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



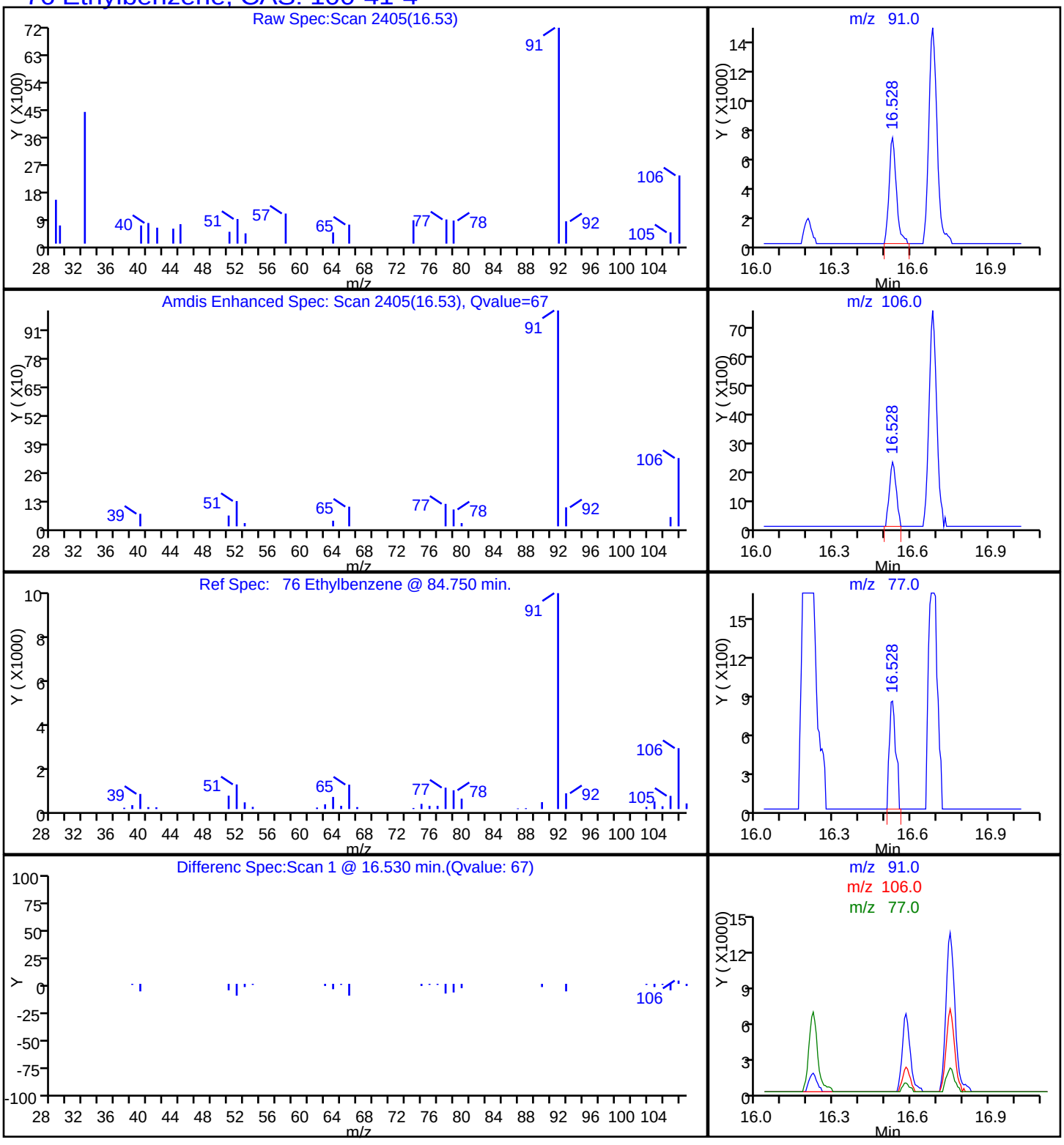
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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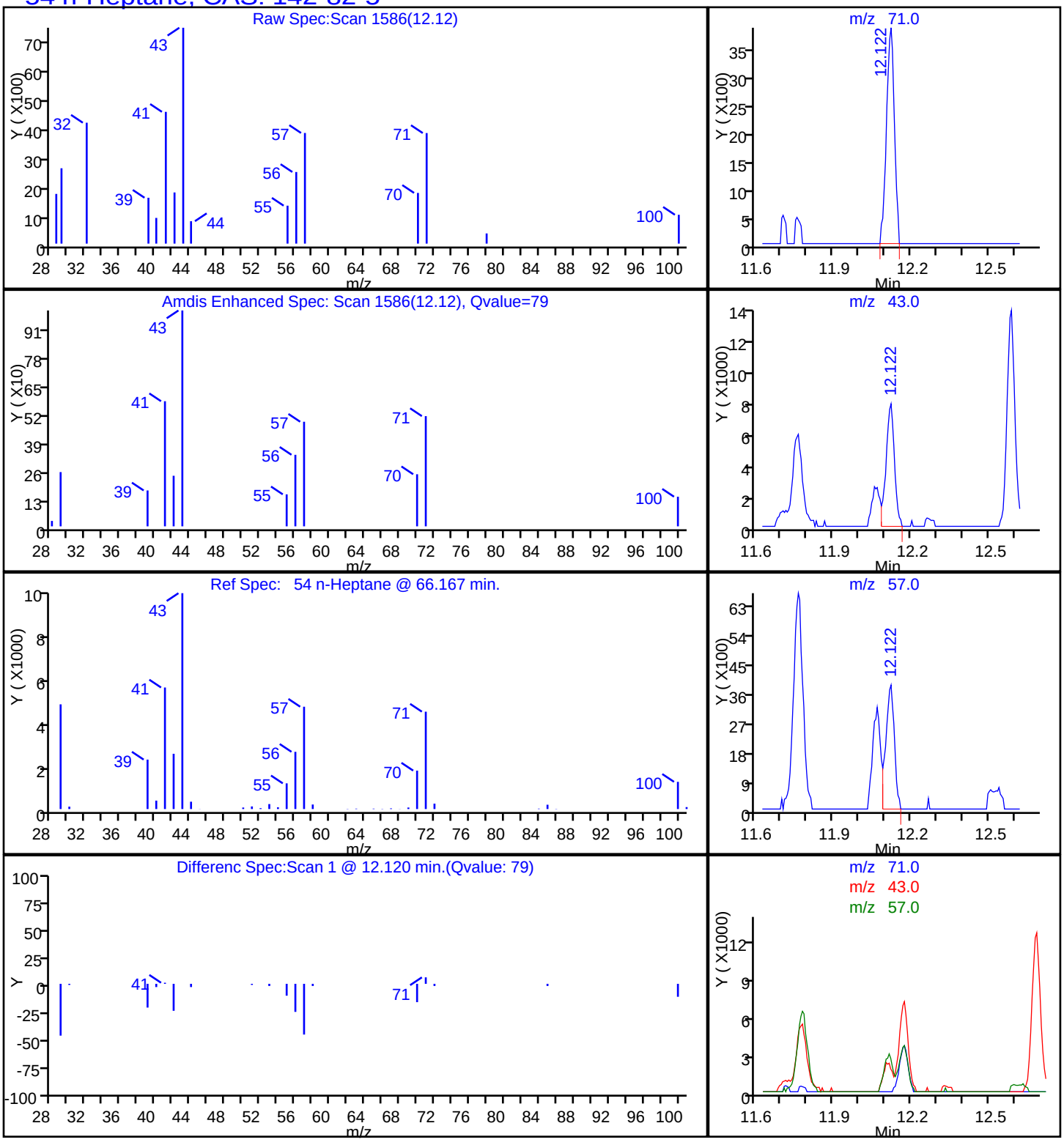
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



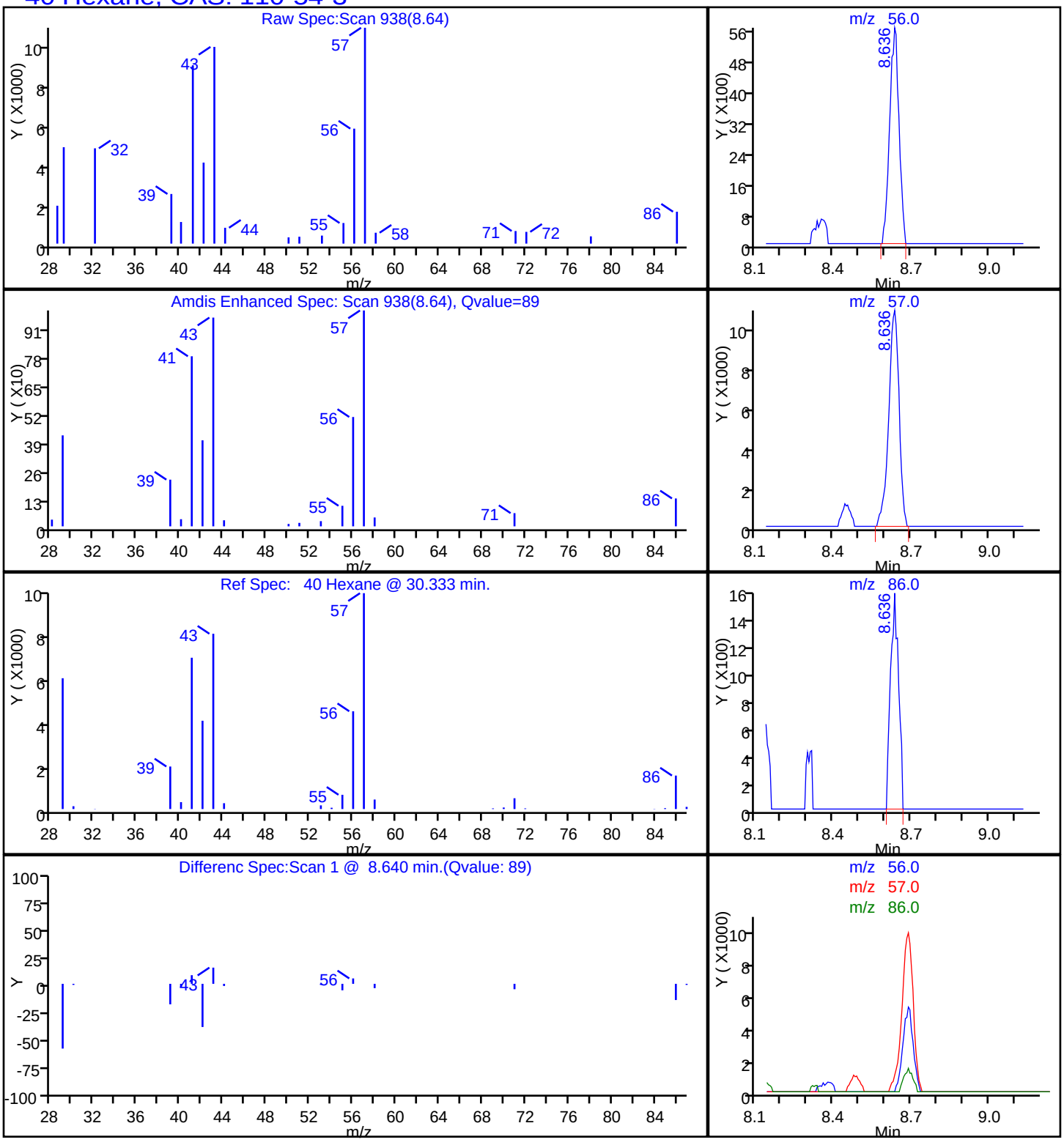
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



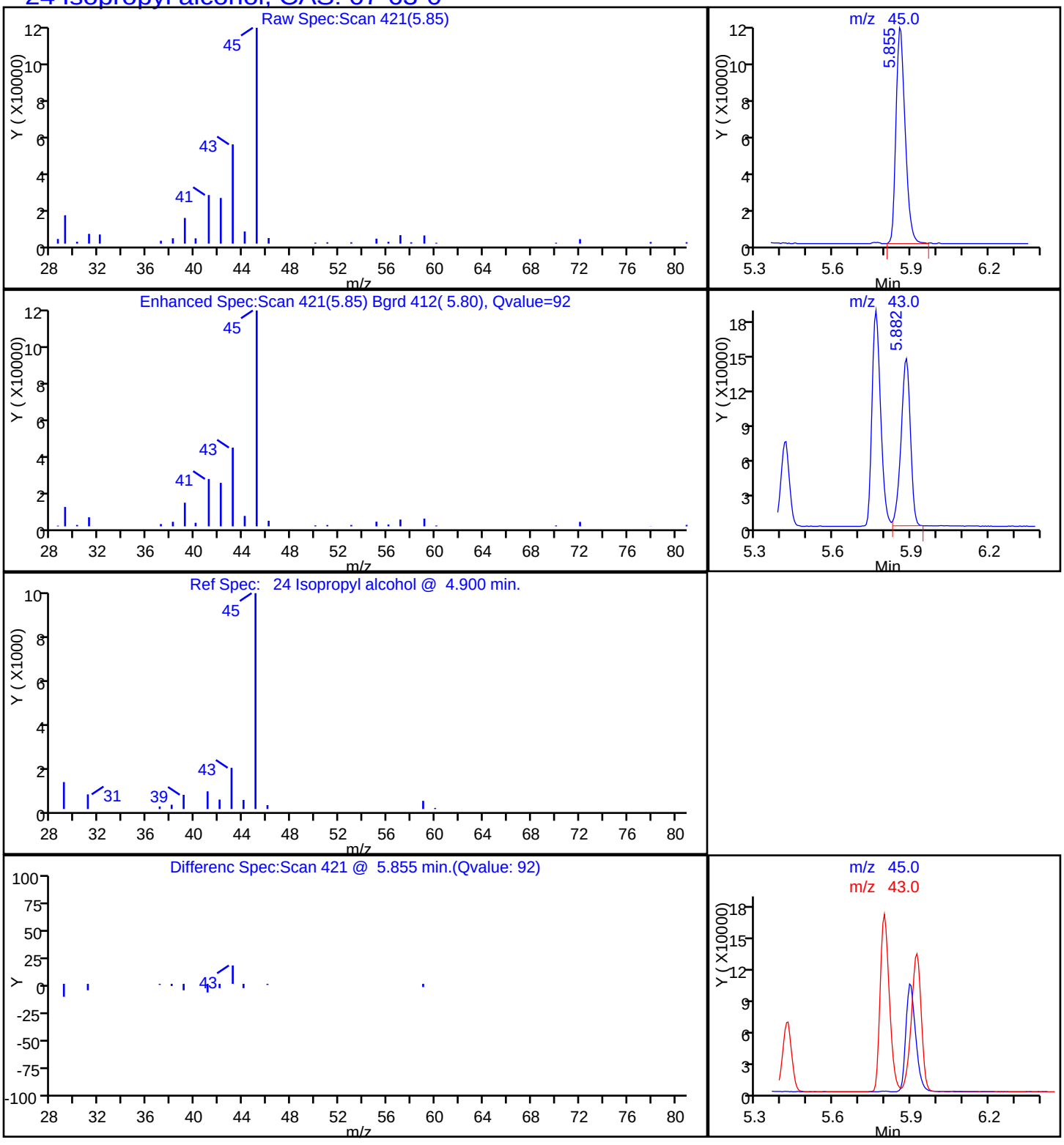
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



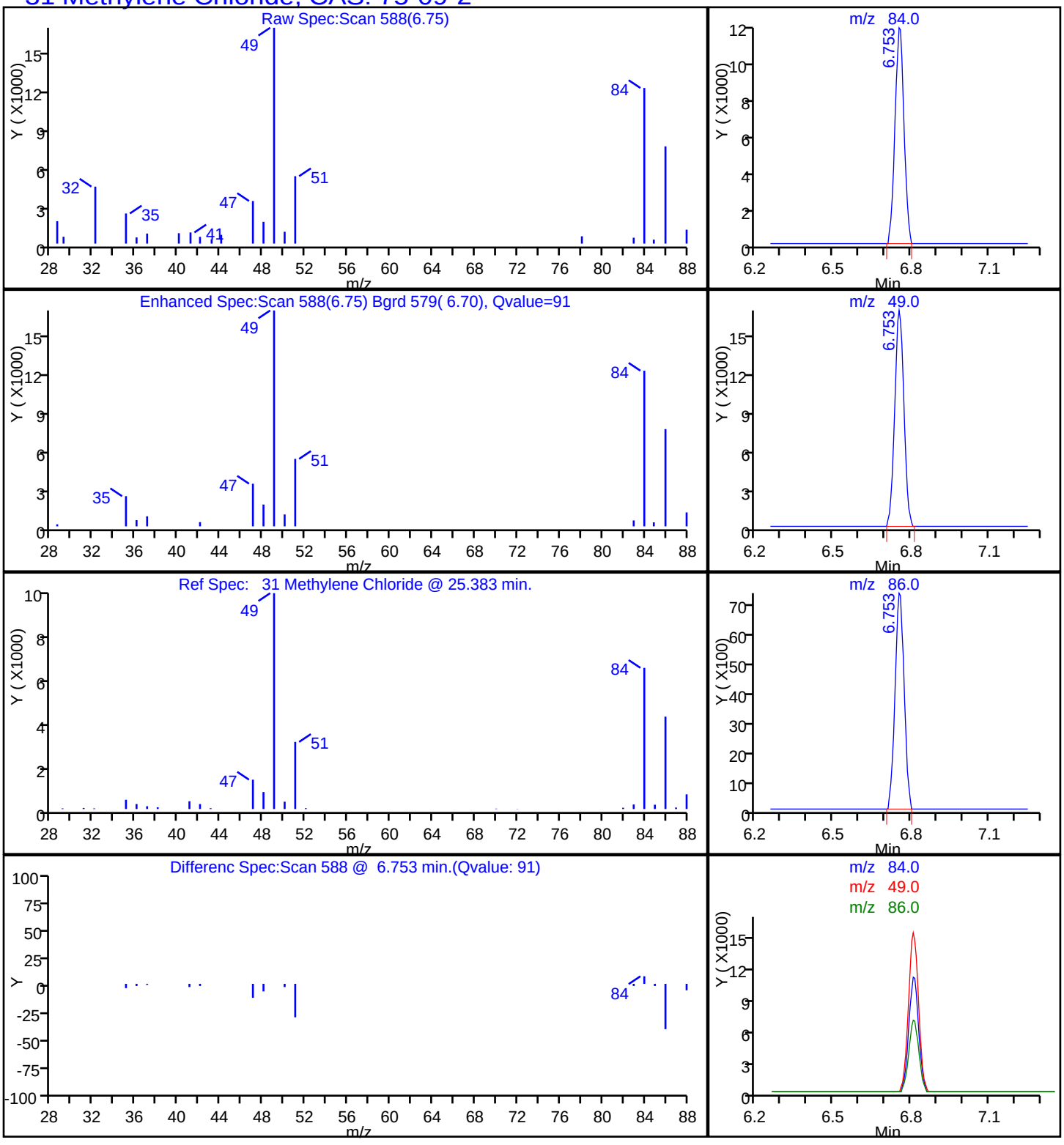
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

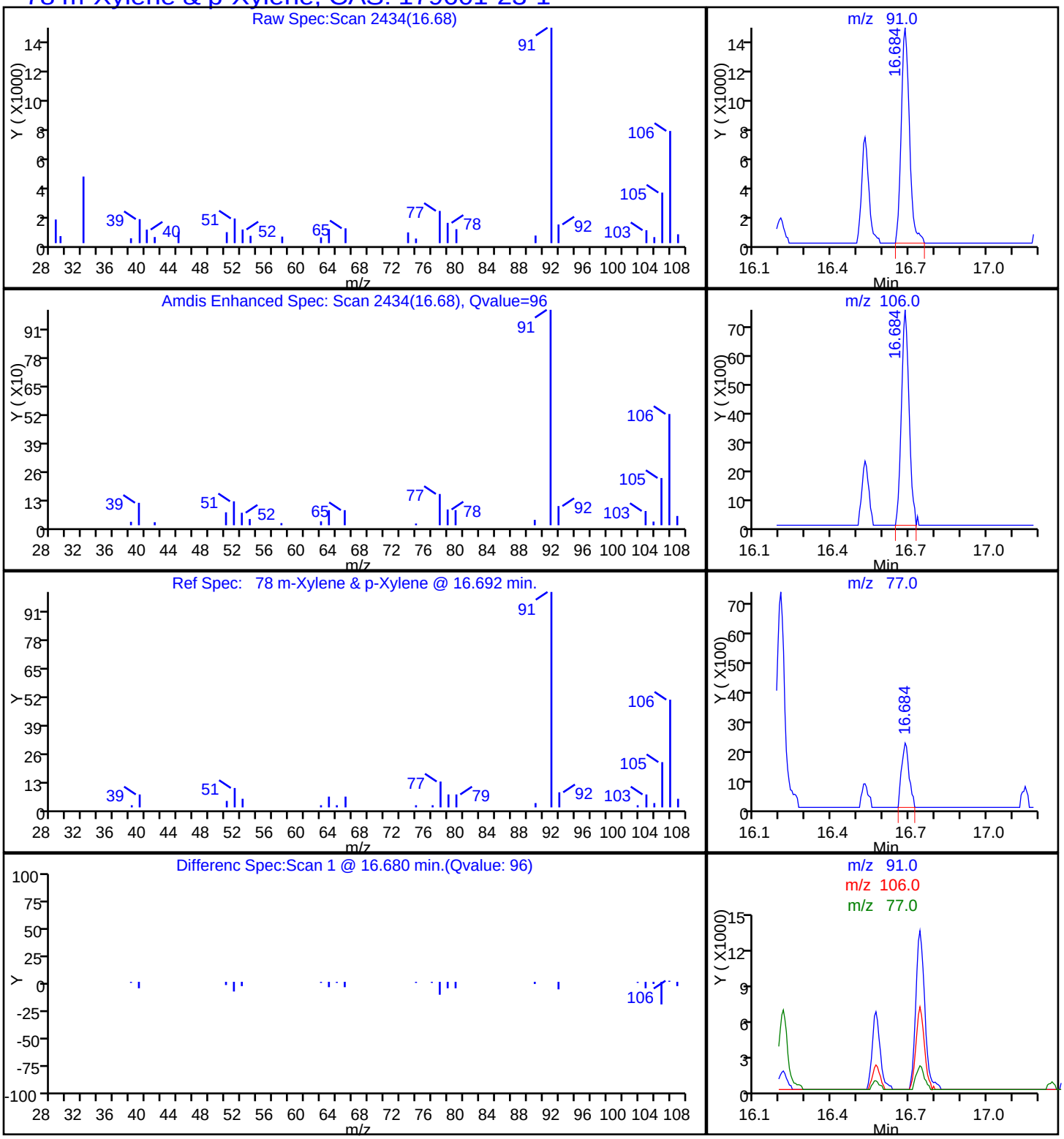


Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D				
Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



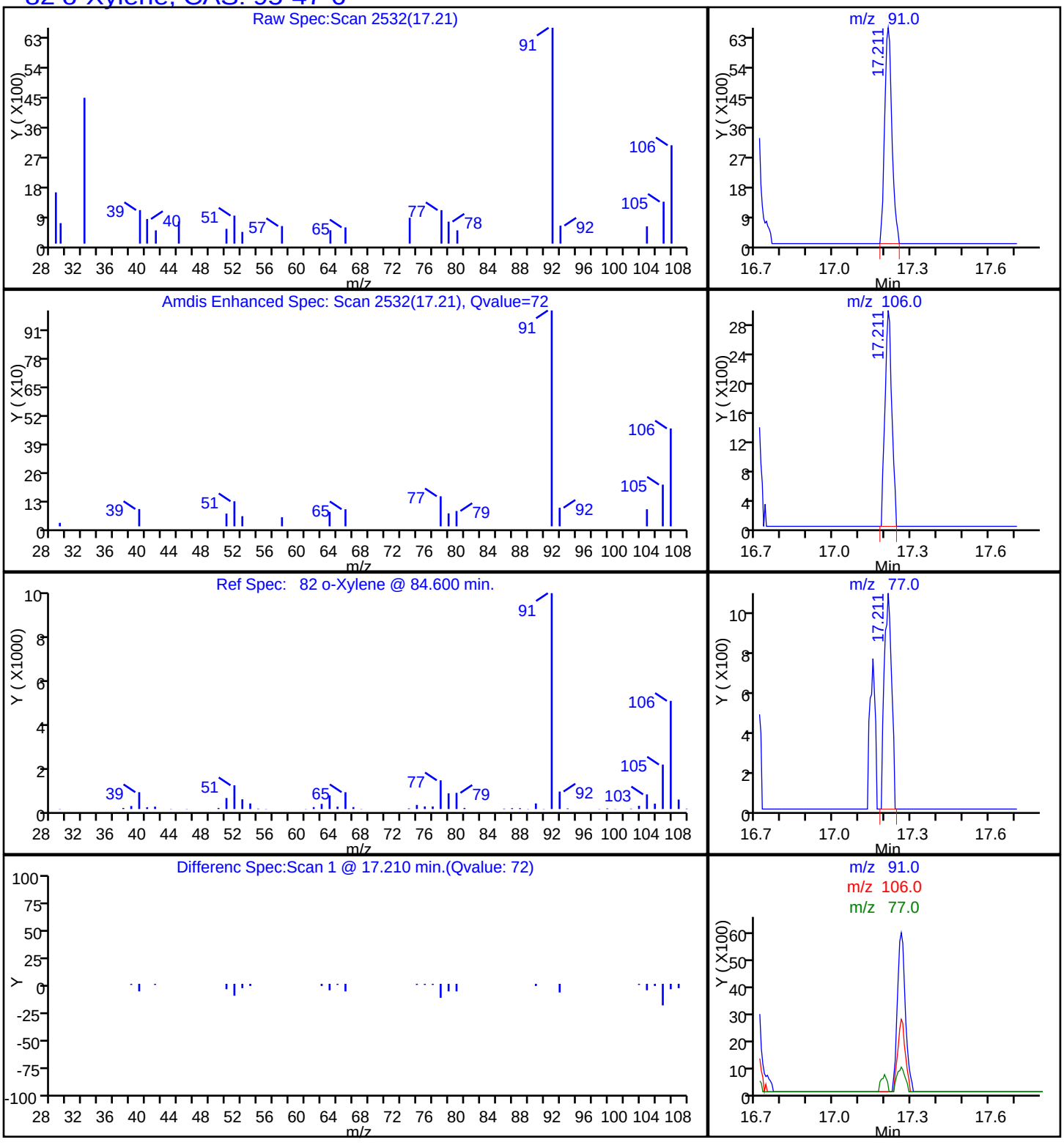
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



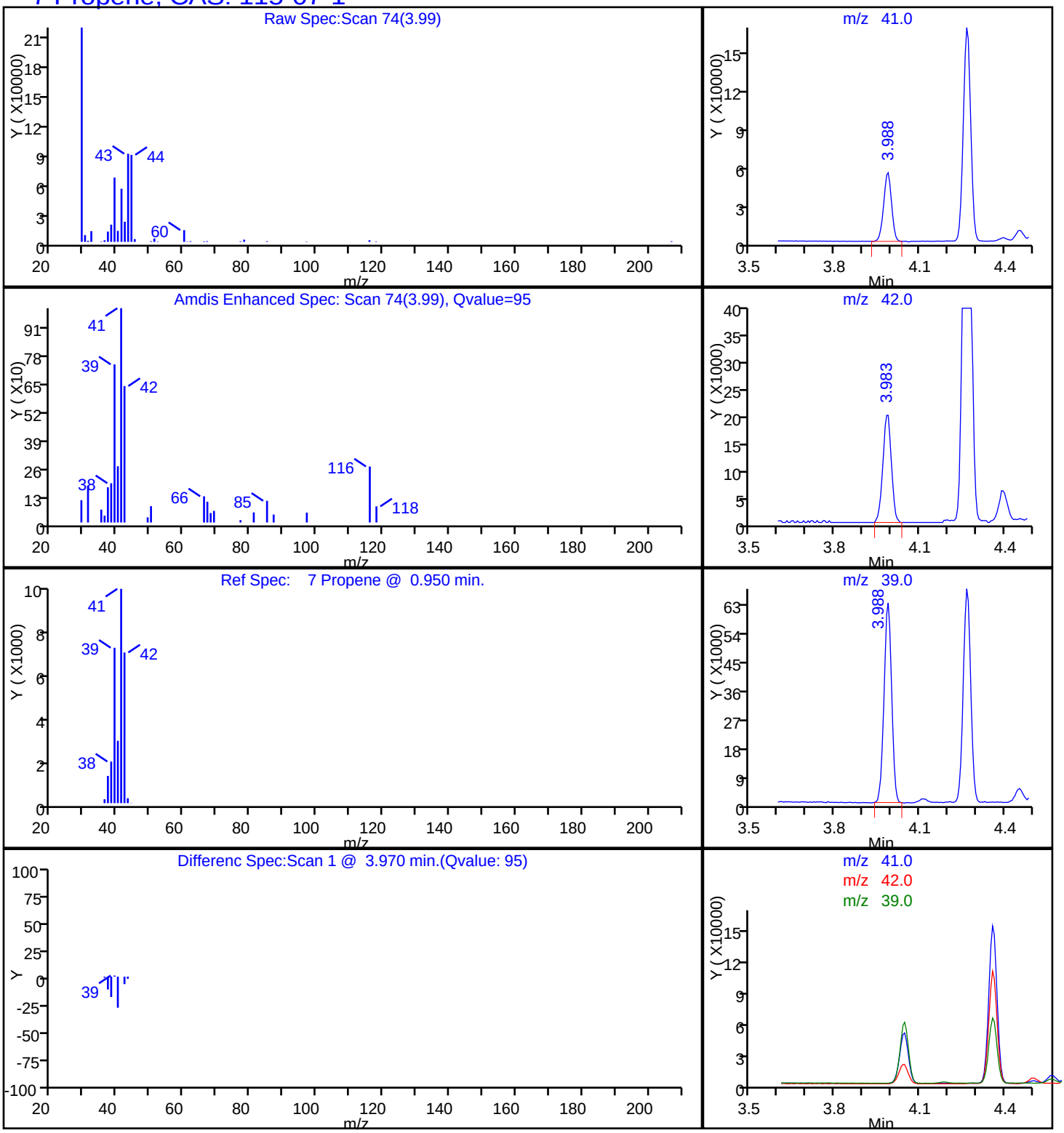
Report Date: 20-Mar-2014 14:56:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



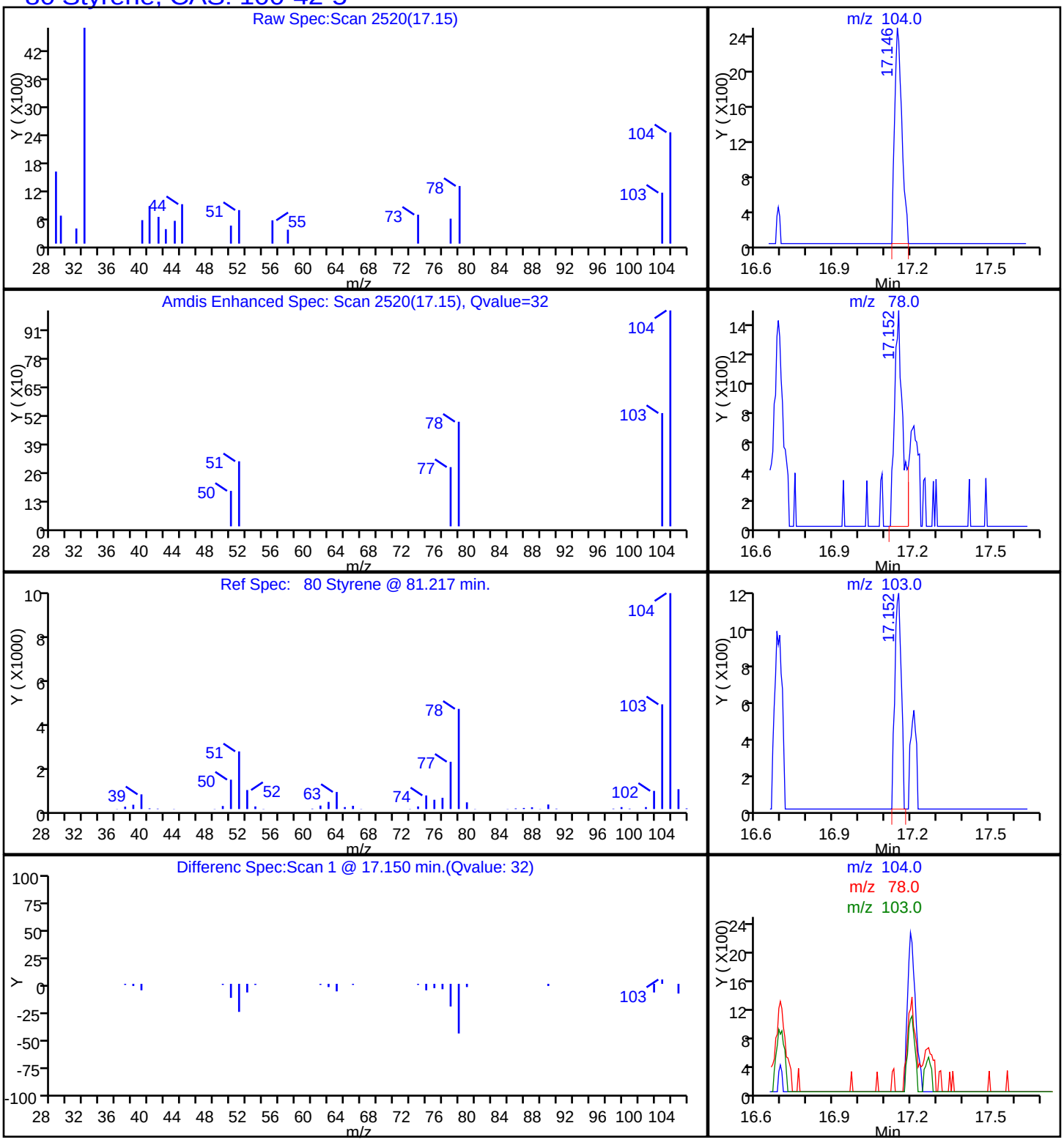
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



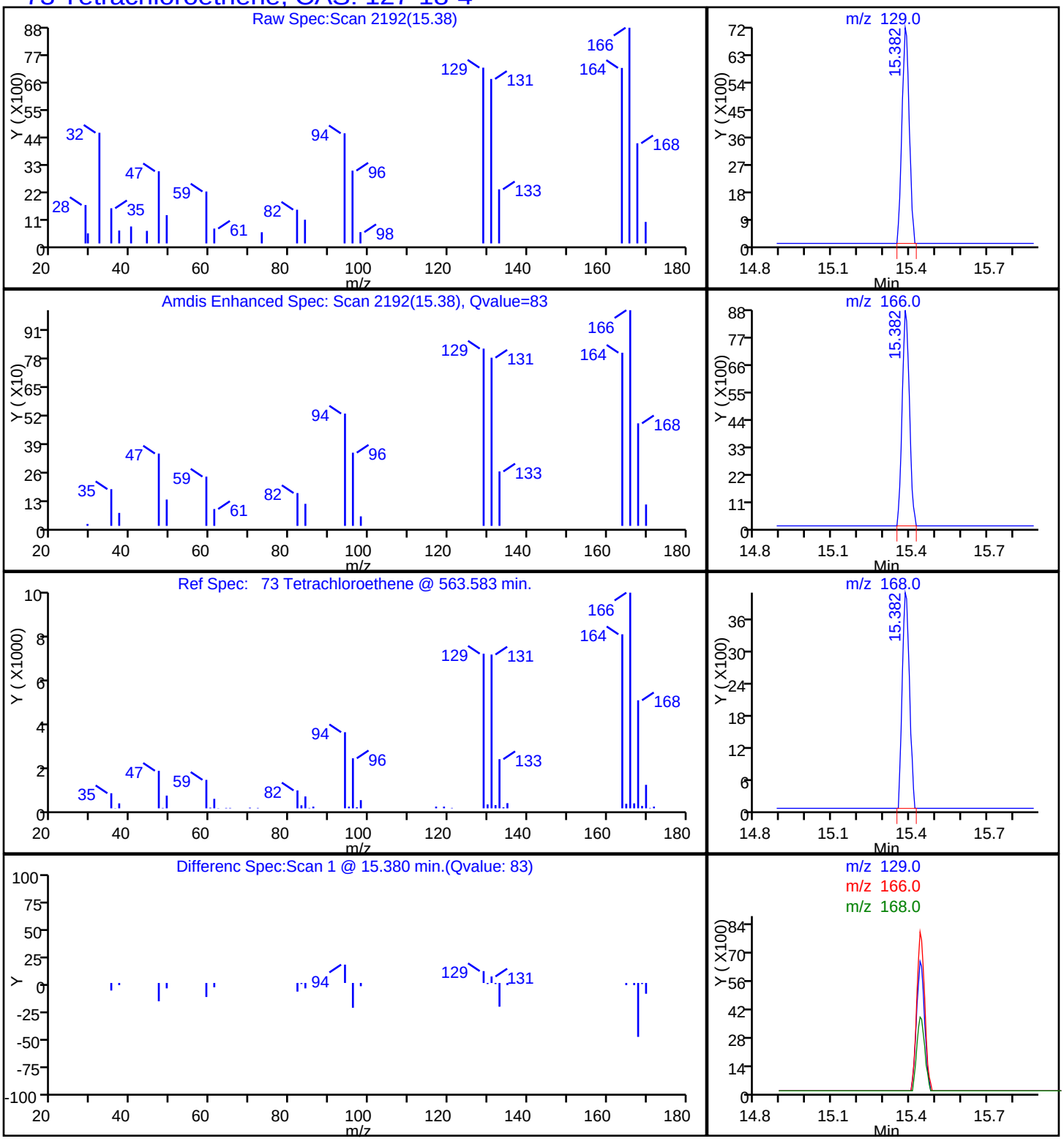
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2
Client ID:	IA5-E14		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



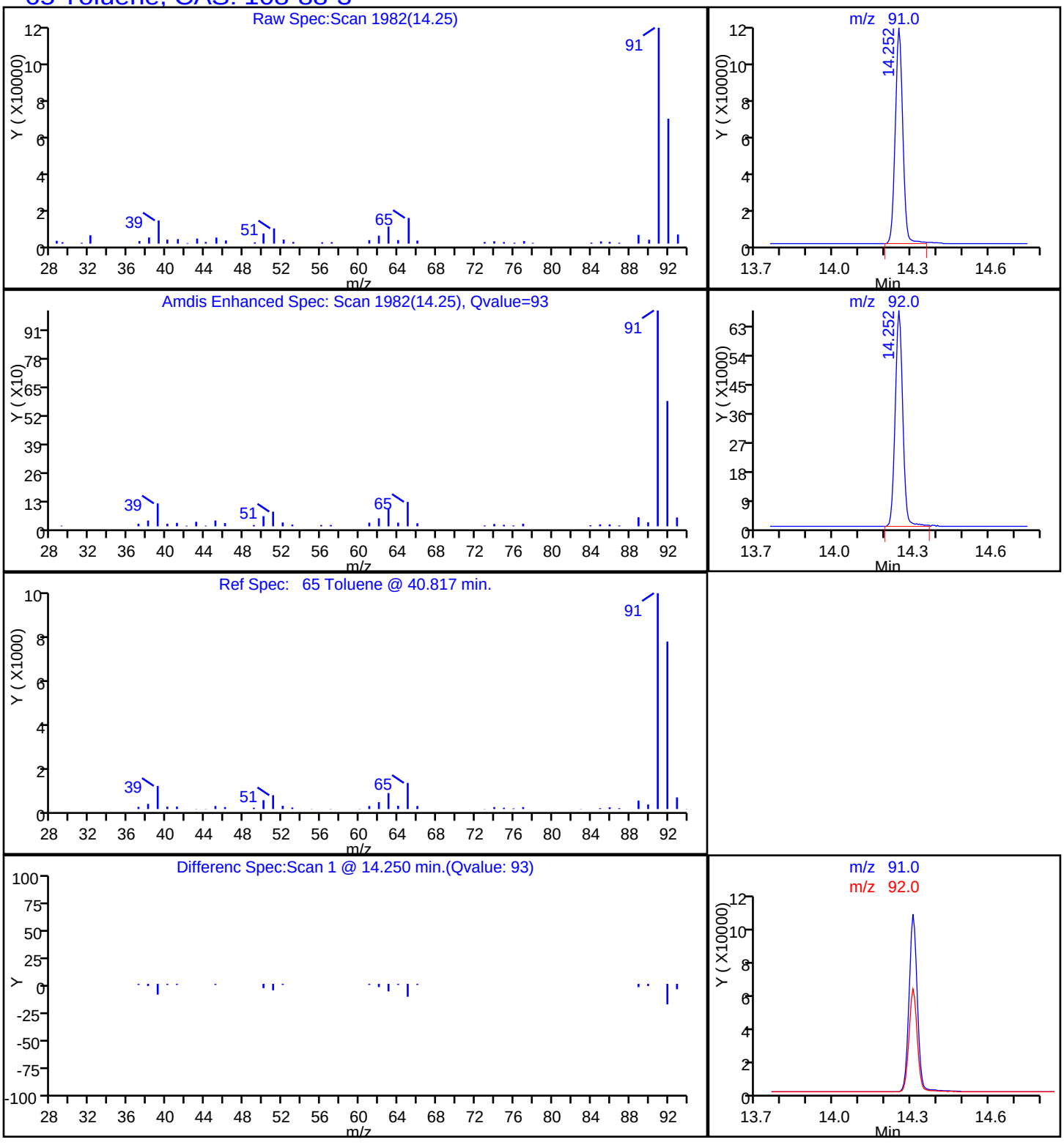
Report Date: 20-Mar-2014 14:56:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



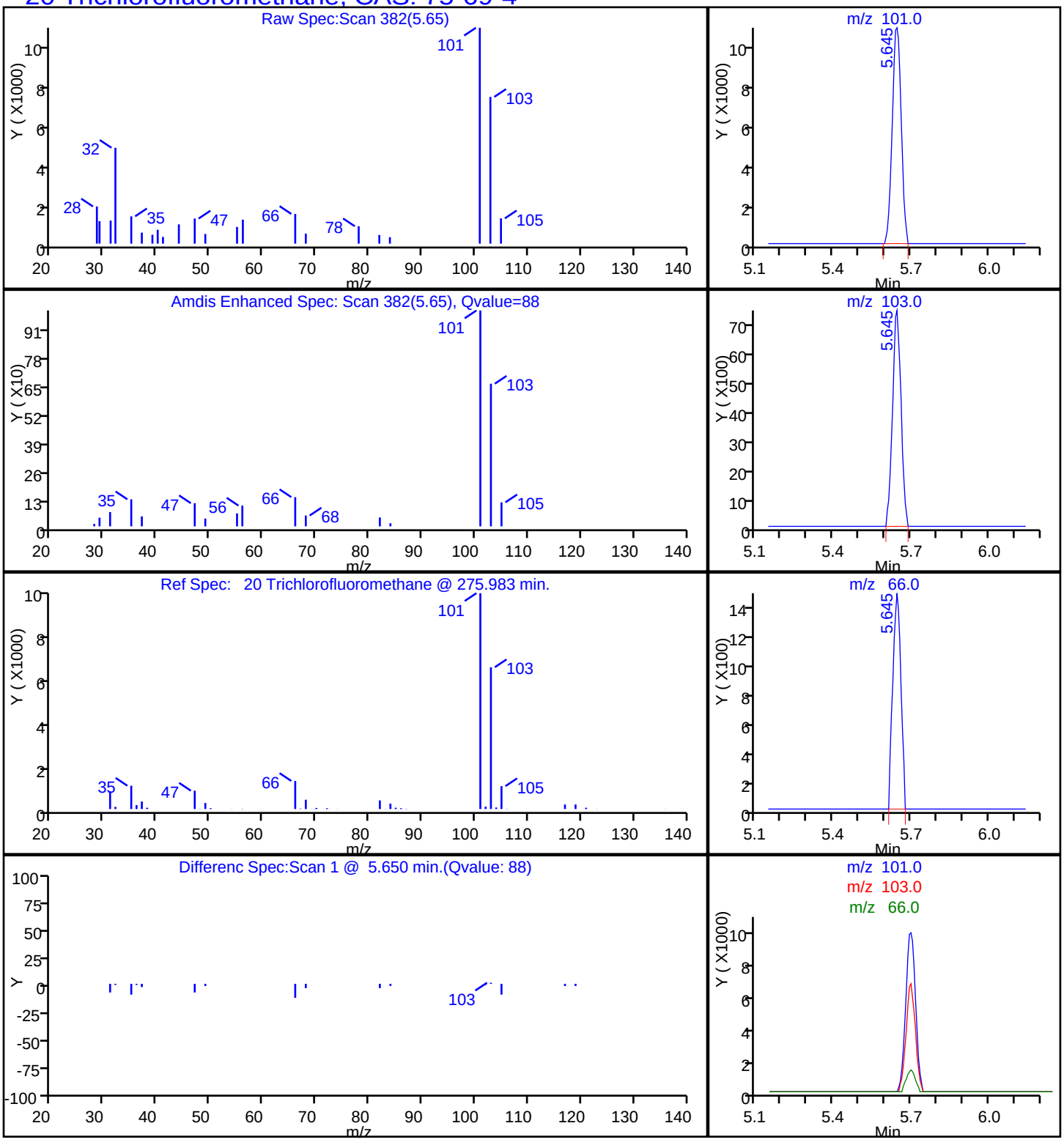
Report Date: 20-Mar-2014 14:56:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date:	18-Mar-2014 23:43:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-2	Lab Sample ID:	140-1063-2		
Client ID:	IA5-E14				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.065	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.066	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.095	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.35	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.44	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.14	J	0.50	0.045
67-64-1	Acetone	58.08	2.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.30		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.095	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.50		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068
64-17-5	Ethanol	46.07	35		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.073	J	0.20	0.068
142-82-5	Heptane	100.21	0.074	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.28	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.086	J	0.20	0.061
115-07-1	Propene	42.08	0.97	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.25		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.42		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.32	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.15	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.44	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.3	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.56	J	2.0	0.18
67-64-1	Acetone	58.08	6.5	J	12	3.3
71-43-2	Benzene	78.11	0.95		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.47	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34
64-17-5	Ethanol	46.07	66		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.32	J	0.87	0.30
142-82-5	Heptane	100.21	0.30	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.51	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.9	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.99	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.95		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.37	J	0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.7		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3

Matrix: Air Lab File ID: JC18P206.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D
Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3
Client ID: IA6-E14
Sample Type: Client
Inject. Date: 19-Mar-2014 00:36:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-3
Misc. Info.: J031814,TO15,,140-0000527-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:01:27 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:01:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	93	378406	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1803968	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1499805	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	1003486	3.78	
7 Propene	41	3.975	3.971	0.004	92	45225	0.3898	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	61184	0.1632	
9 Chloromethane	52	4.228	4.229	-0.001	99	8510	0.1999	
14 Butadiene	54	4.508	4.514	-0.006	26	2569	0.0264	
17 Ethanol	31	5.115	5.116	-0.001	95	423941	14.0	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	28133	0.1750	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	24717	0.0751	
23 Acetone	58	5.766	5.767	-0.001	92	58424	1.09	
24 Isopropyl alcohol	45	5.858	5.848	0.010	80	67569	0.4757	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.579	6.580	-0.001	71	5986	0.0262	
31 Methylene Chloride	84	6.751	6.757	-0.006	85	11534	0.1139	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	95	4965	0.1386	
40 Hexane	56	8.639	8.635	0.004	70	5864	0.0576	
43 Chloroform	83	9.387	9.393	-0.006	16	8411	0.0381	
48 Benzene	78	11.022	11.023	-0.001	92	36944	0.1194	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	87	6596	0.0258	
53 Isooctane	57	11.759	11.760	-0.001	85	20114	0.0381	
54 n-Heptane	71	12.114	12.120	-0.006	77	3250	0.0297	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	86	10274	0.0543	
65 Toluene	91	14.255	14.256	-0.001	90	46740	0.1680	
73 Tetrachloroethene	129	15.379	15.386	-0.007	85	13158	0.1015	
76 Ethylbenzene	91	16.525	16.532	-0.007	44	8951	0.0291	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	90	21612	0.0872	
82 o-Xylene	91	17.214	17.215	-0.001	71	8673	0.0345	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	47	7593	0.0261	

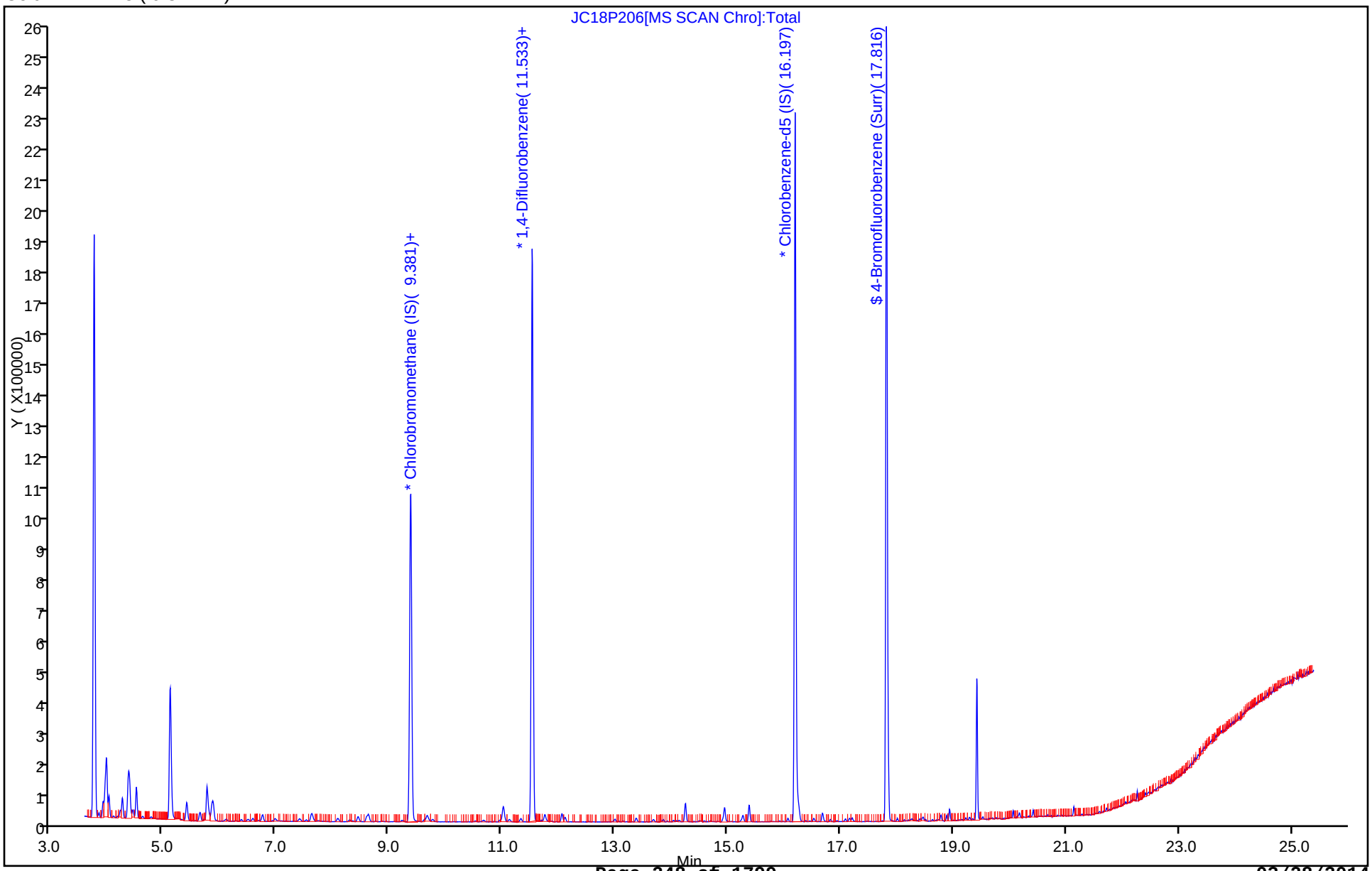
Report Date: 19-Mar-2014 13:01:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3	Worklist Smp#:	12
Client ID:	IA6-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

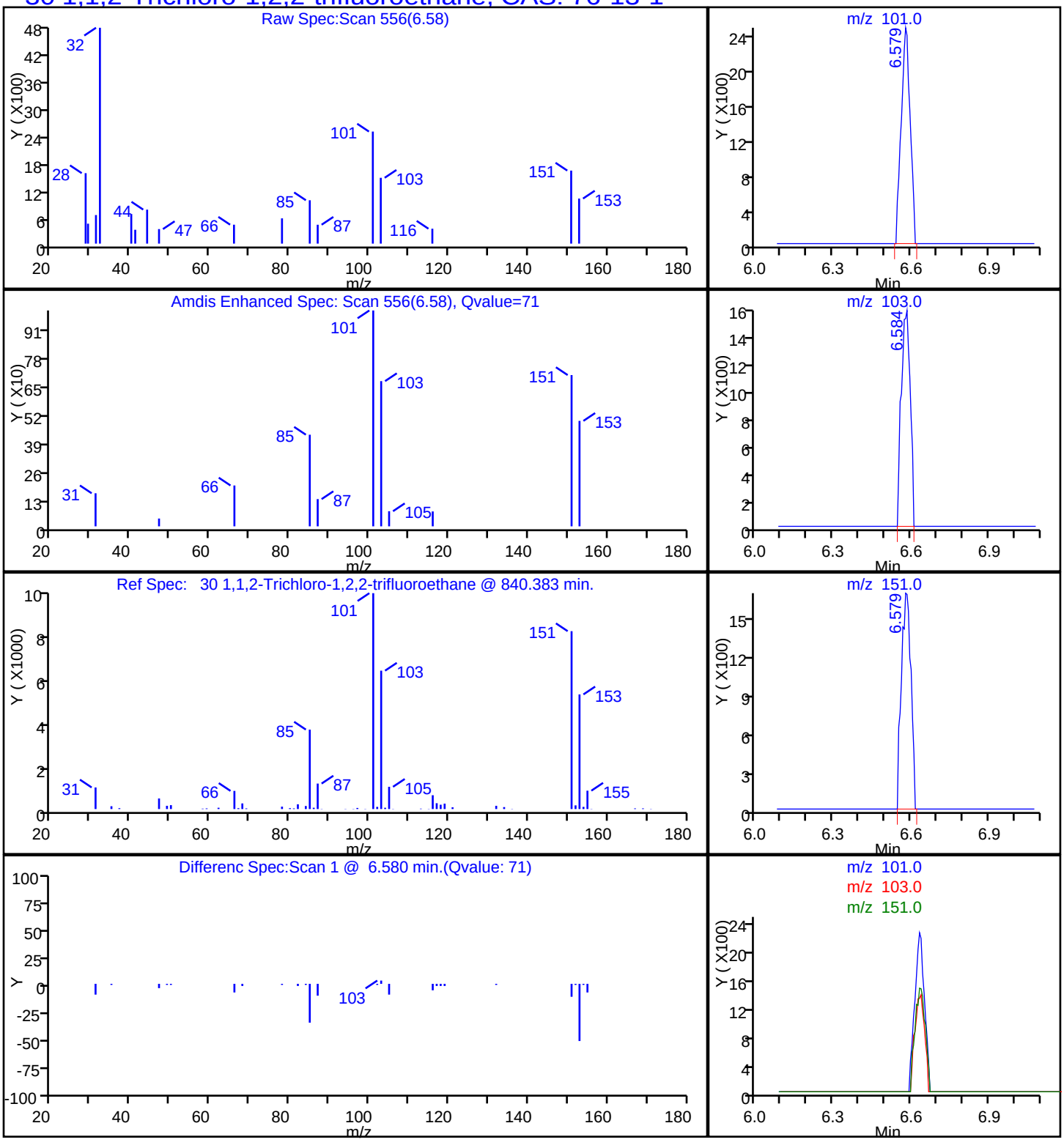
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

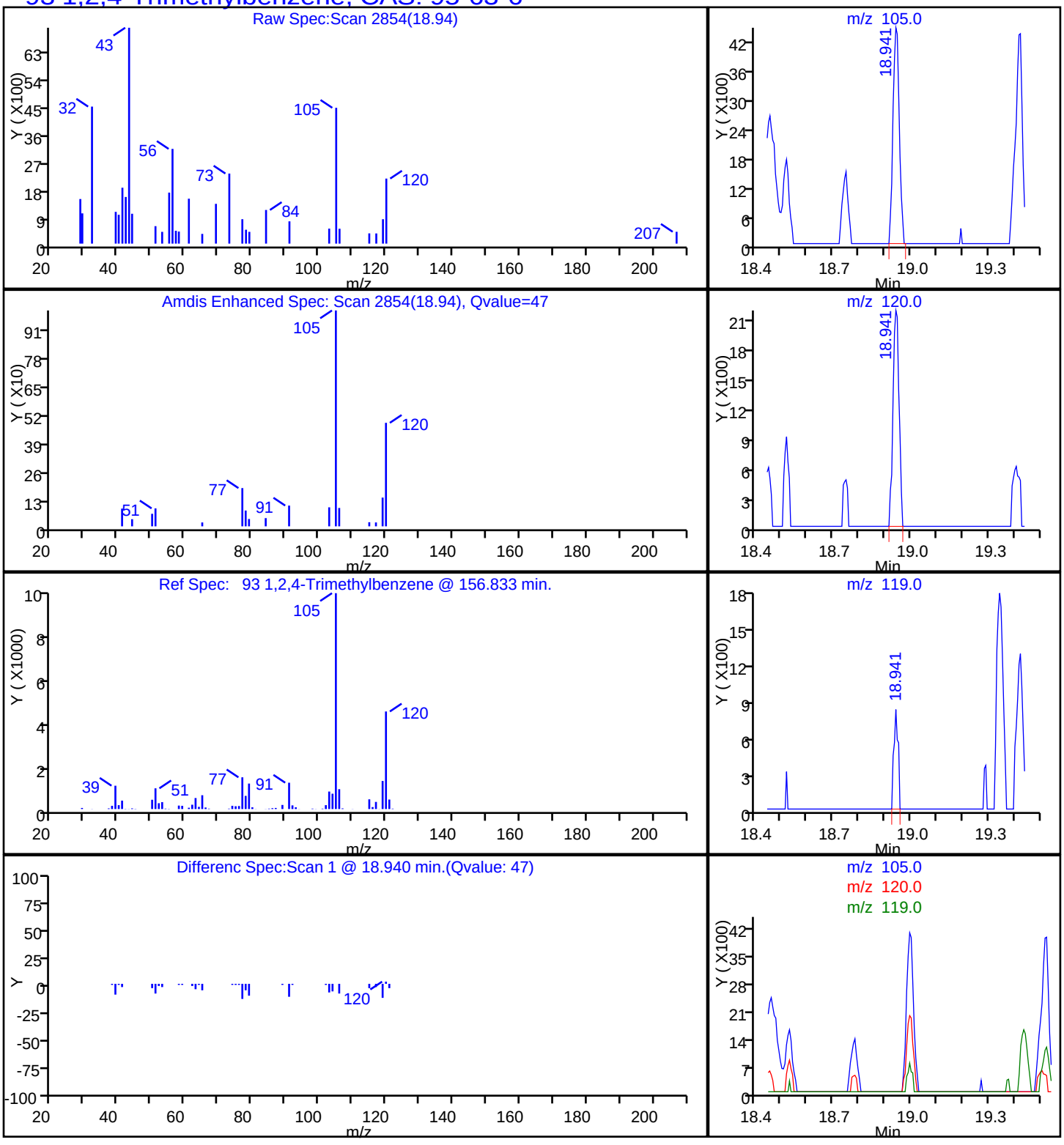


Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D				
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

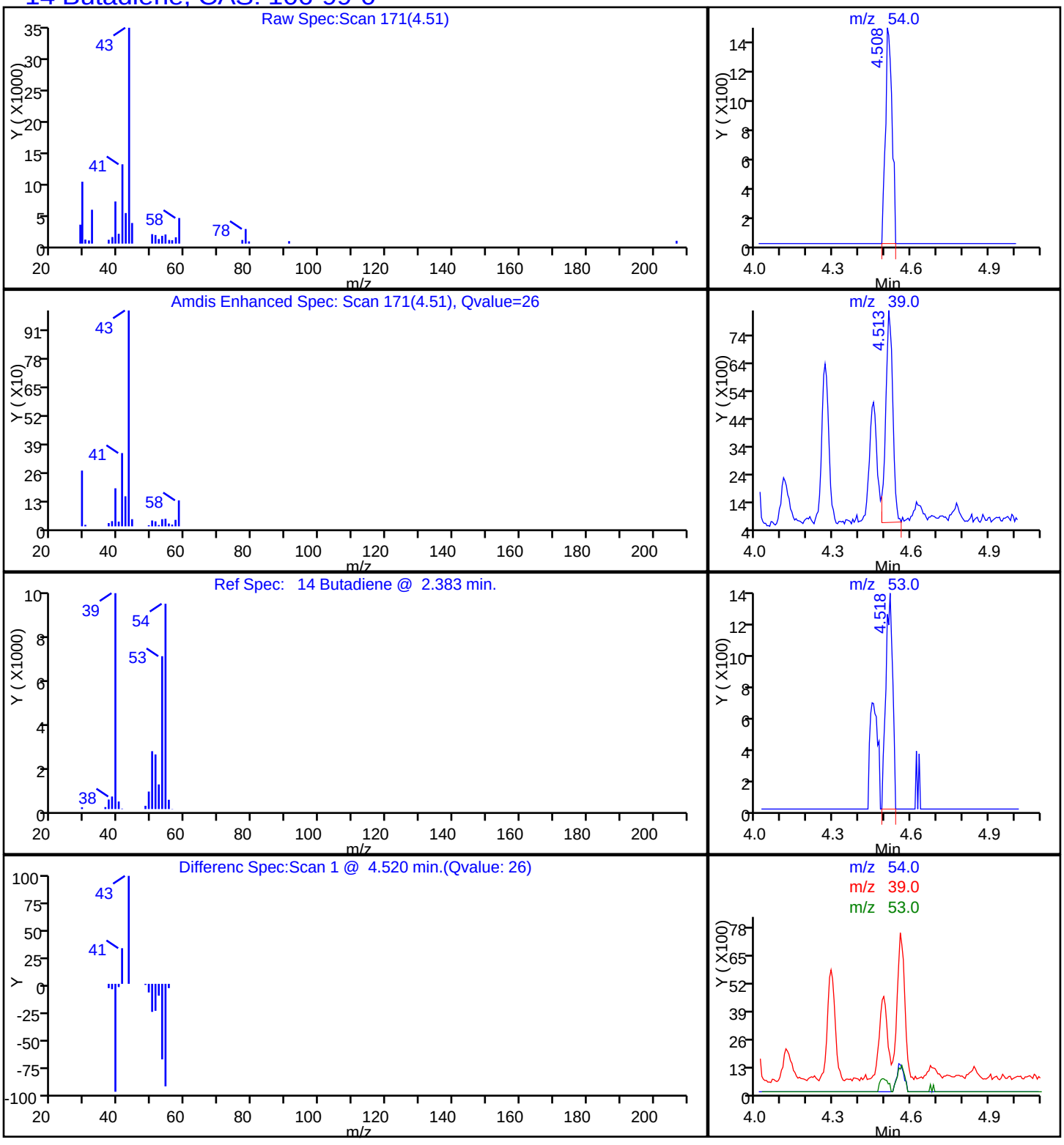
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

14 Butadiene, CAS: 106-99-0

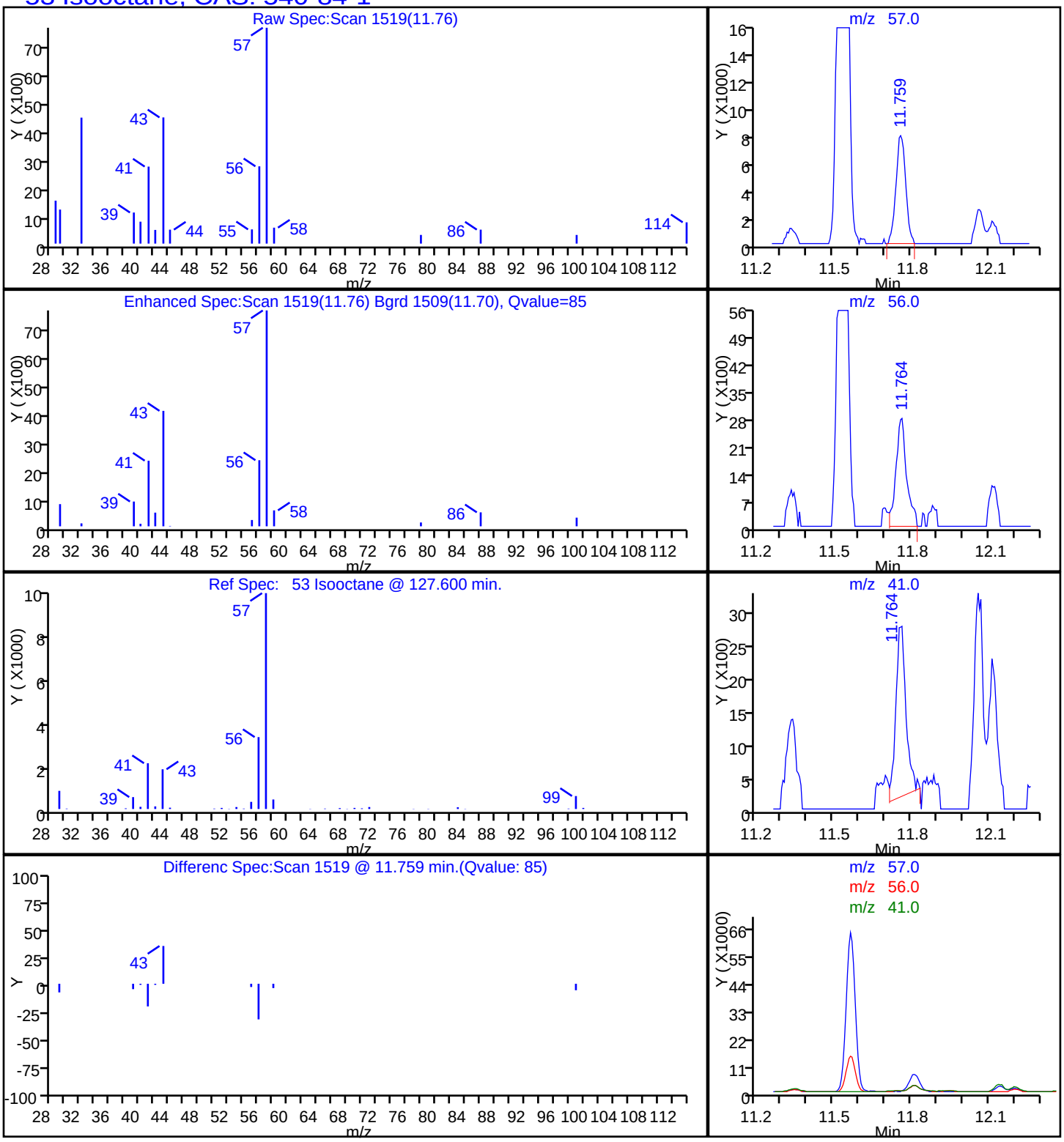


Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D				
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



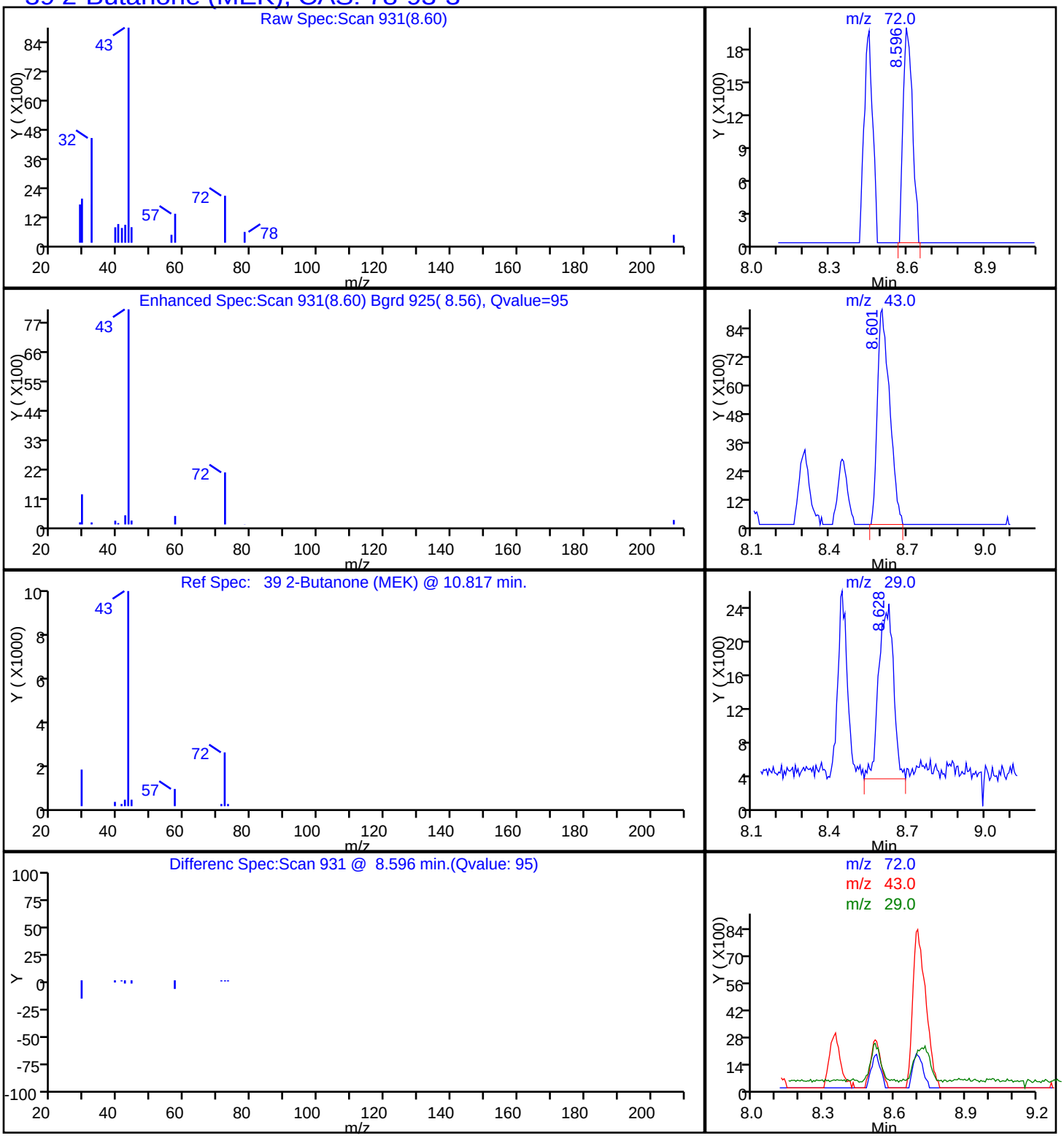
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

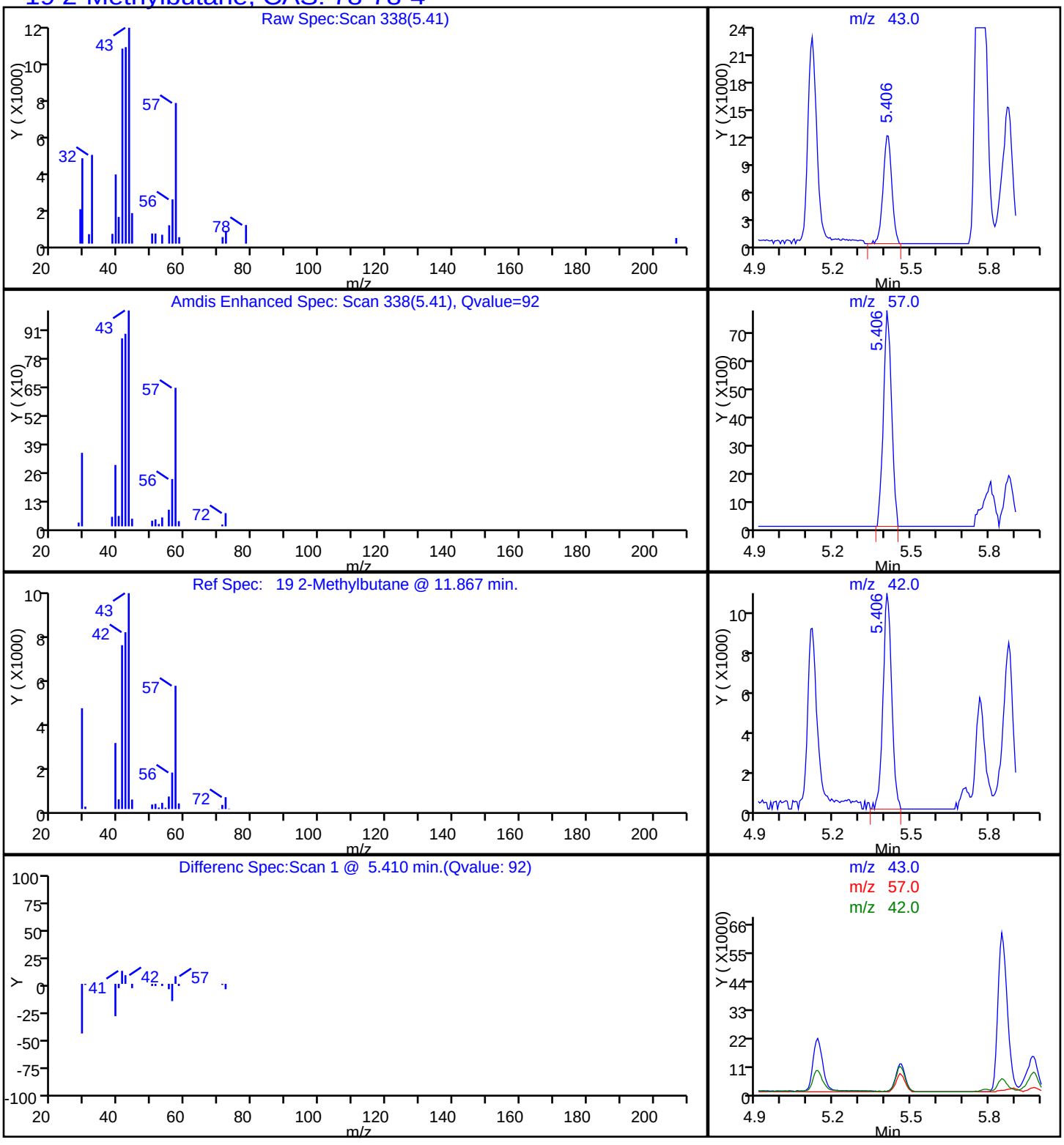
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

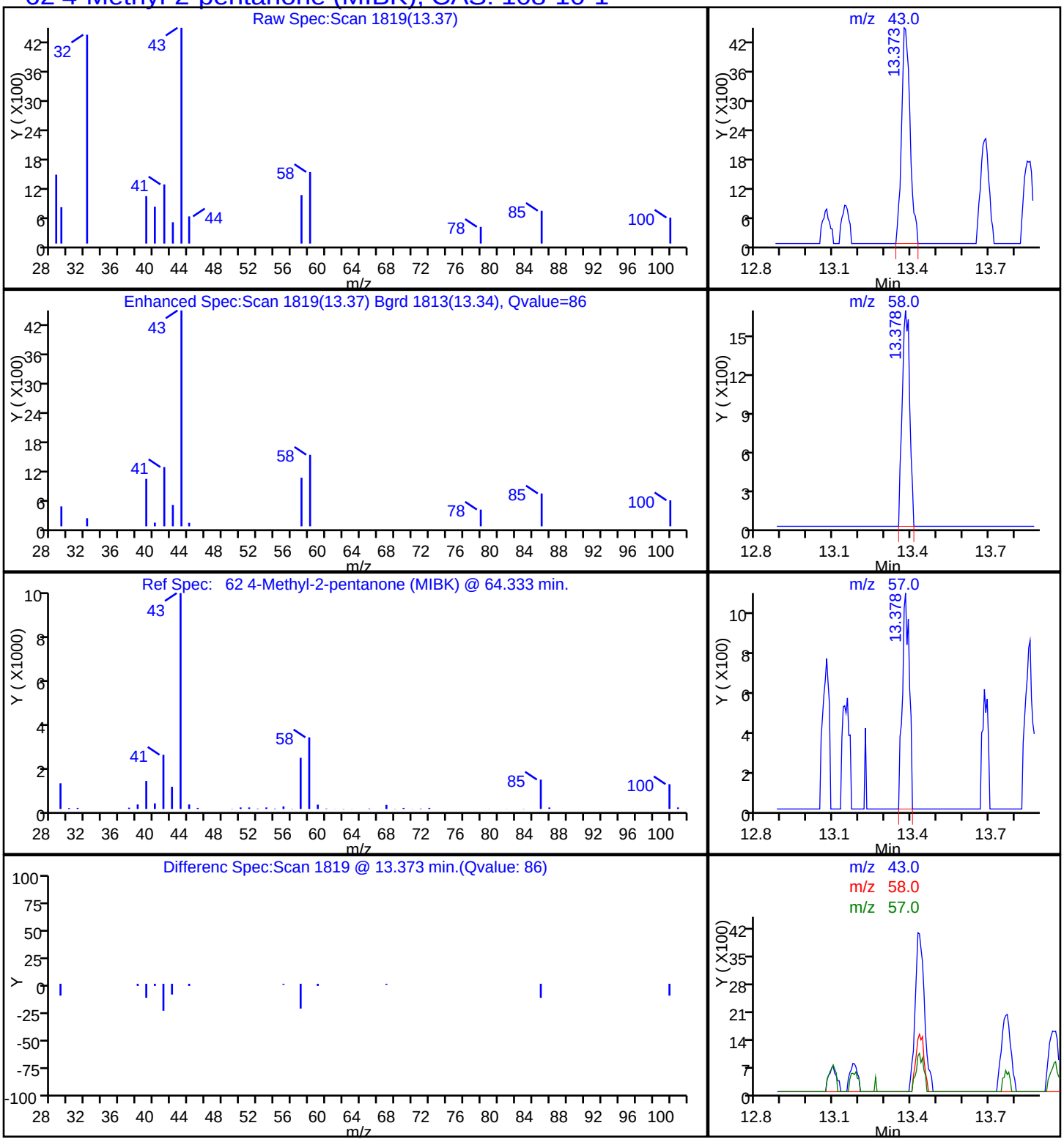
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



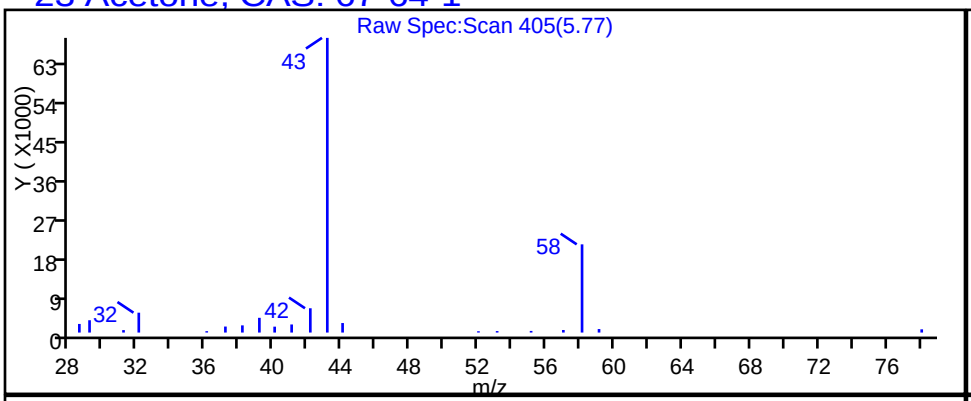
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

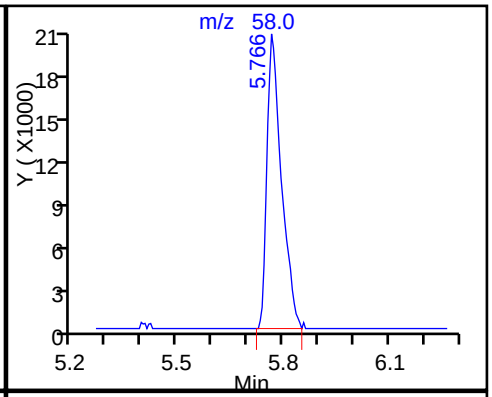
TestAmerica Knoxville

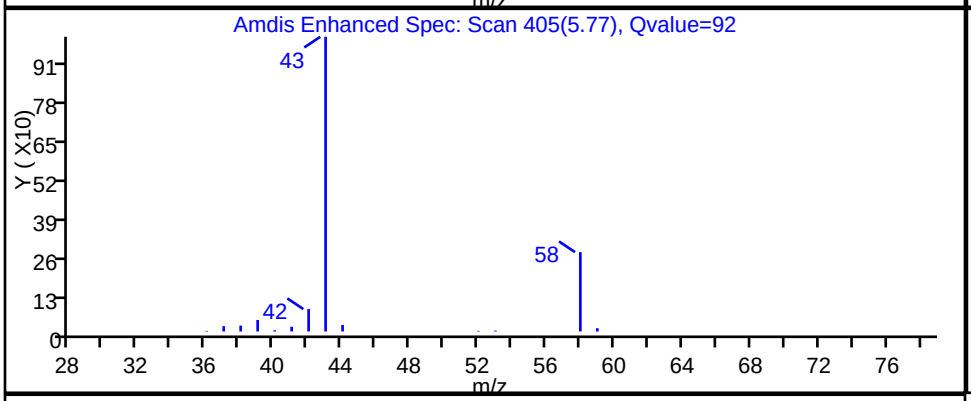
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

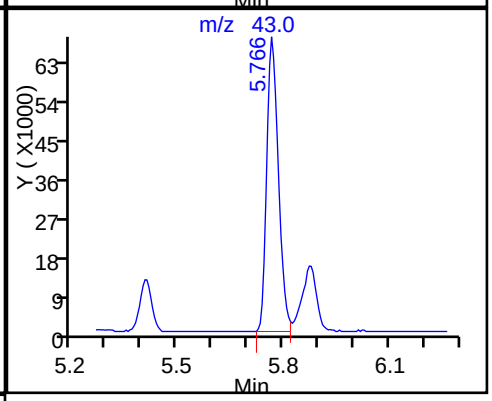
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

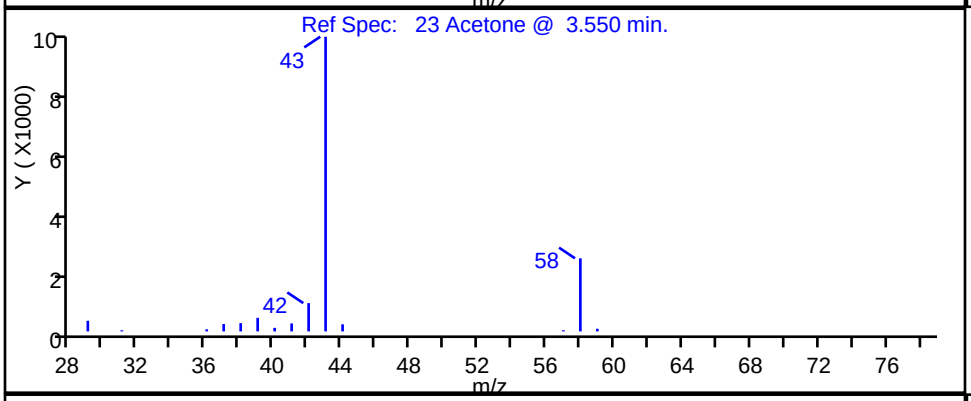
23 Acetone, CAS: 67-64-1

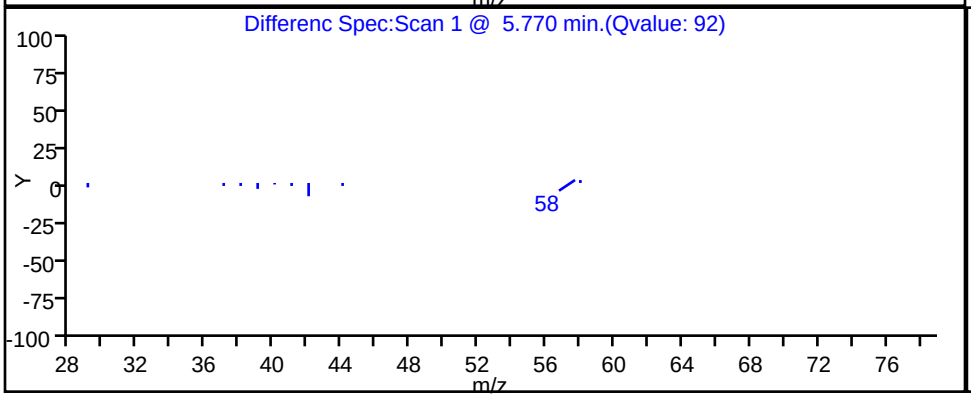


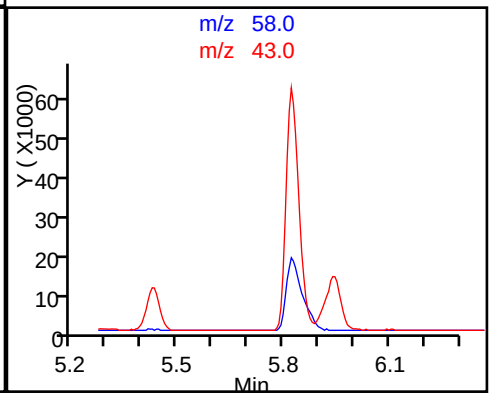












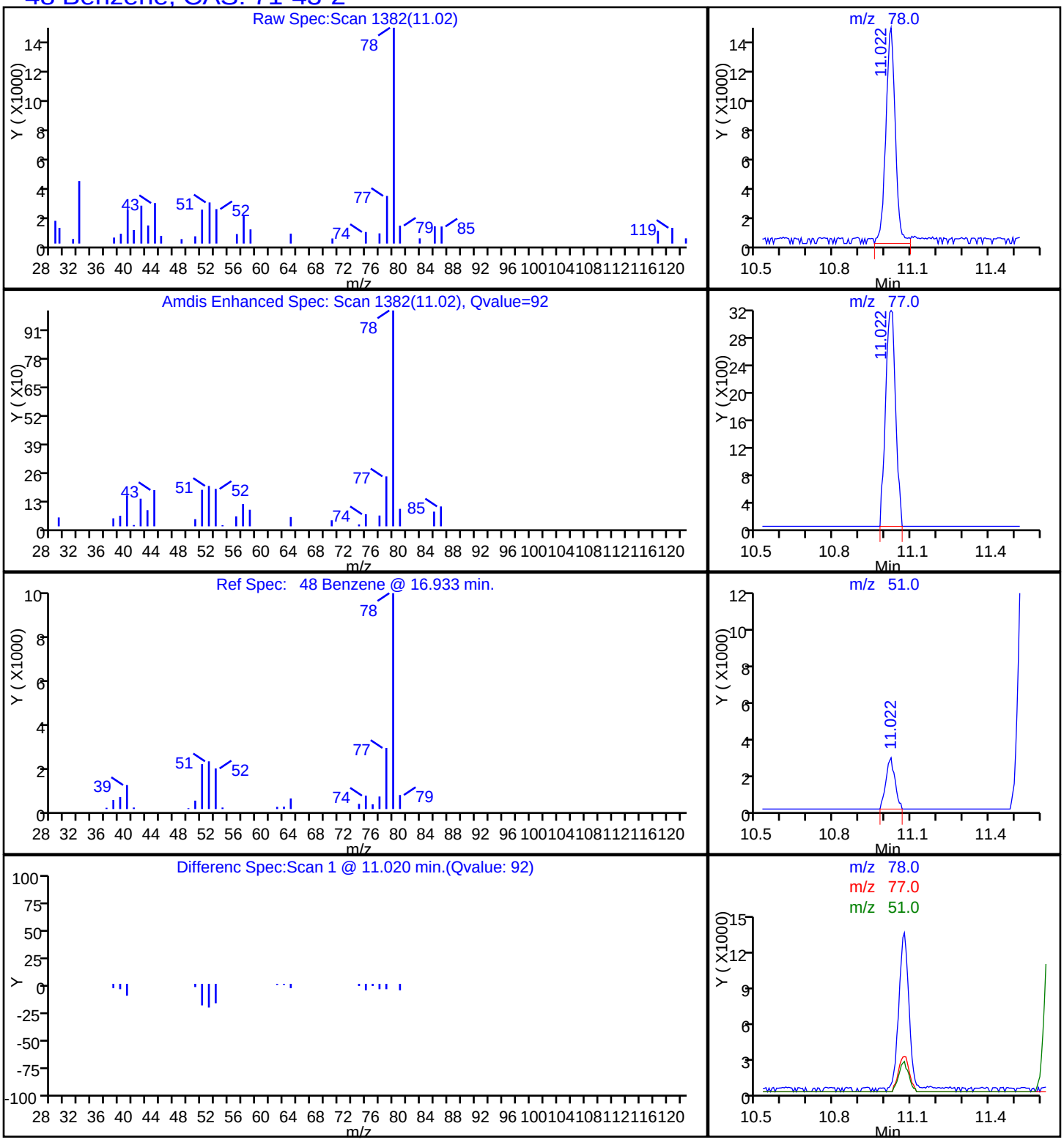
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

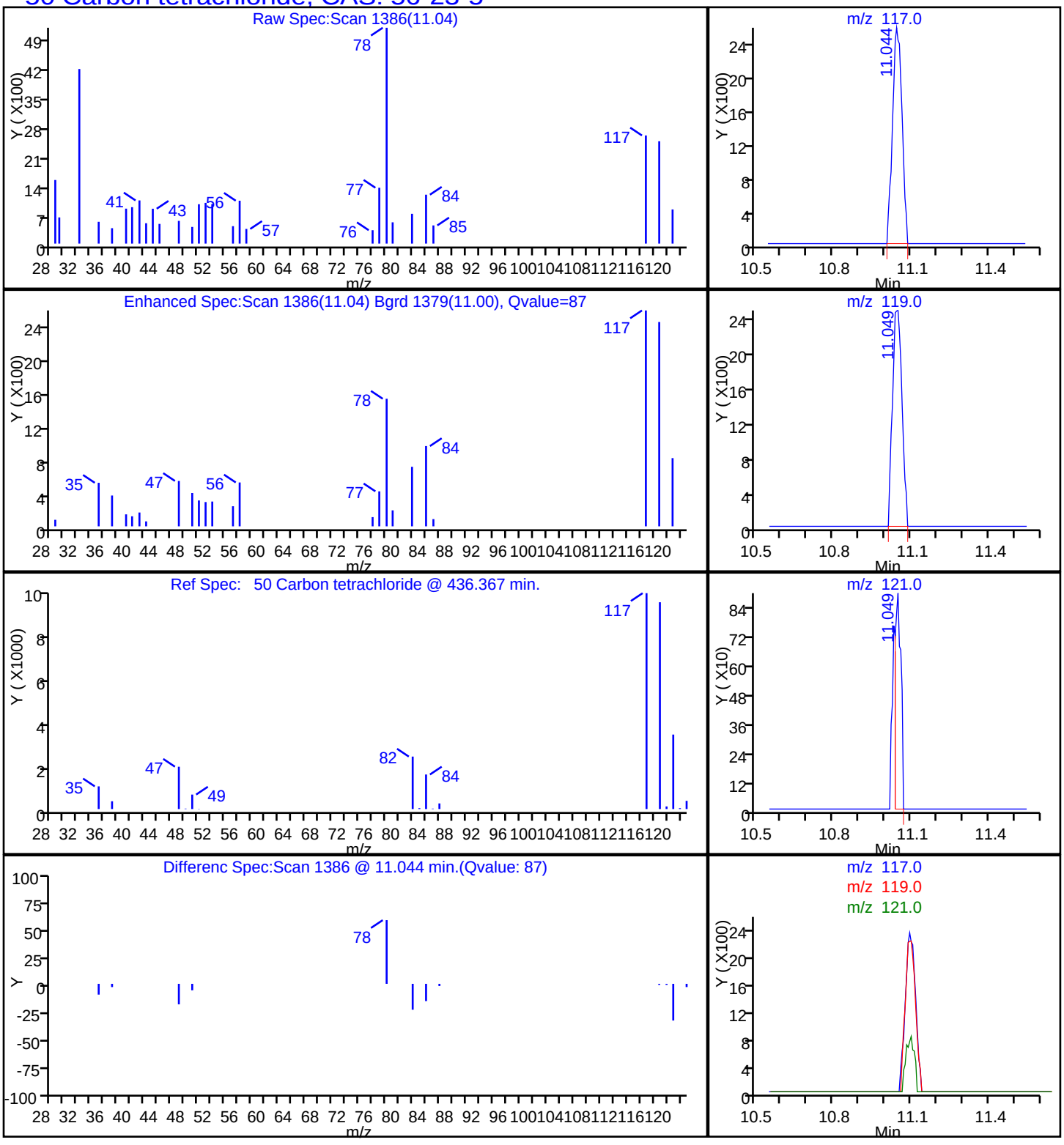
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

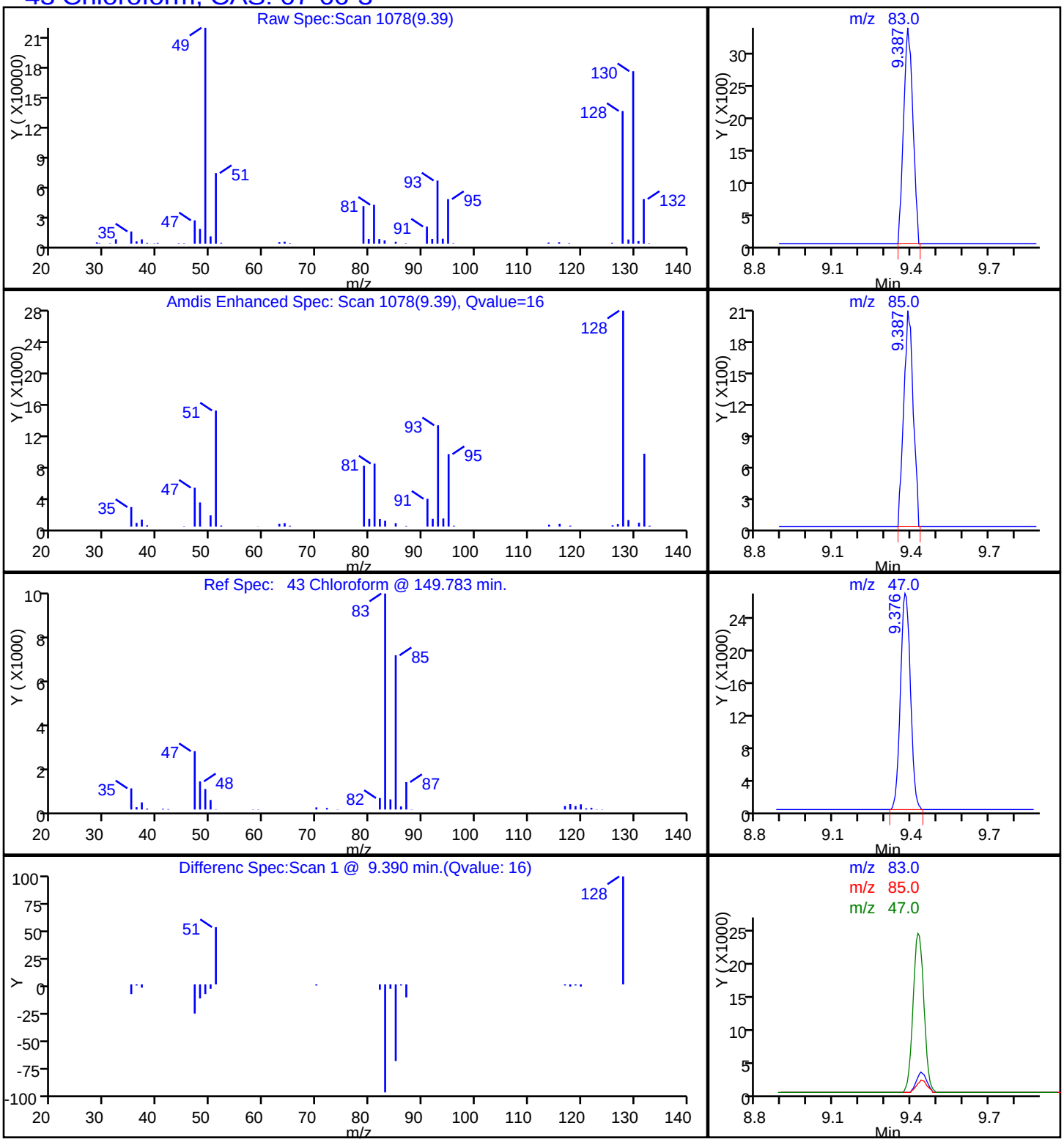
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



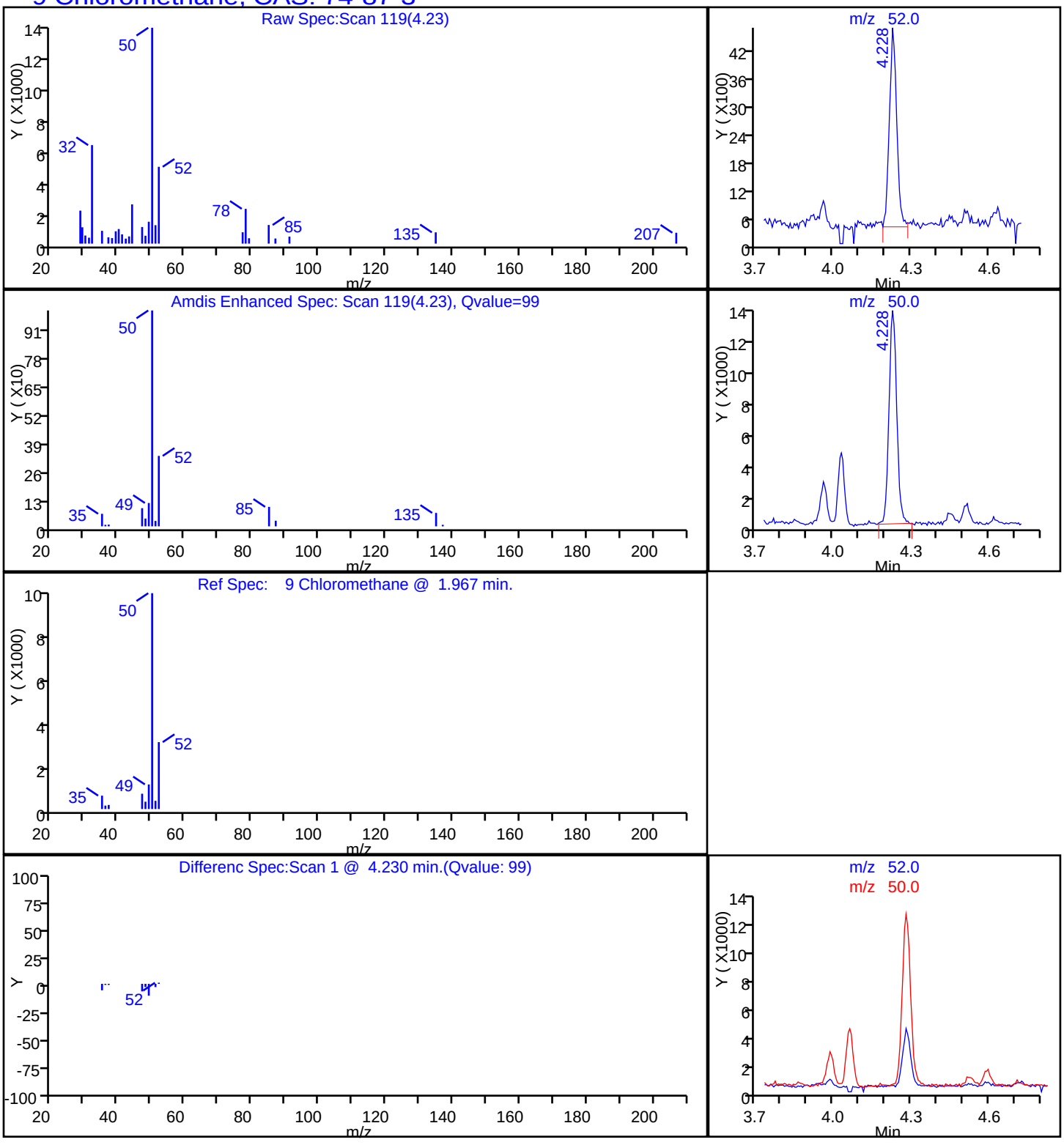
Report Date: 19-Mar-2014 13:01:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



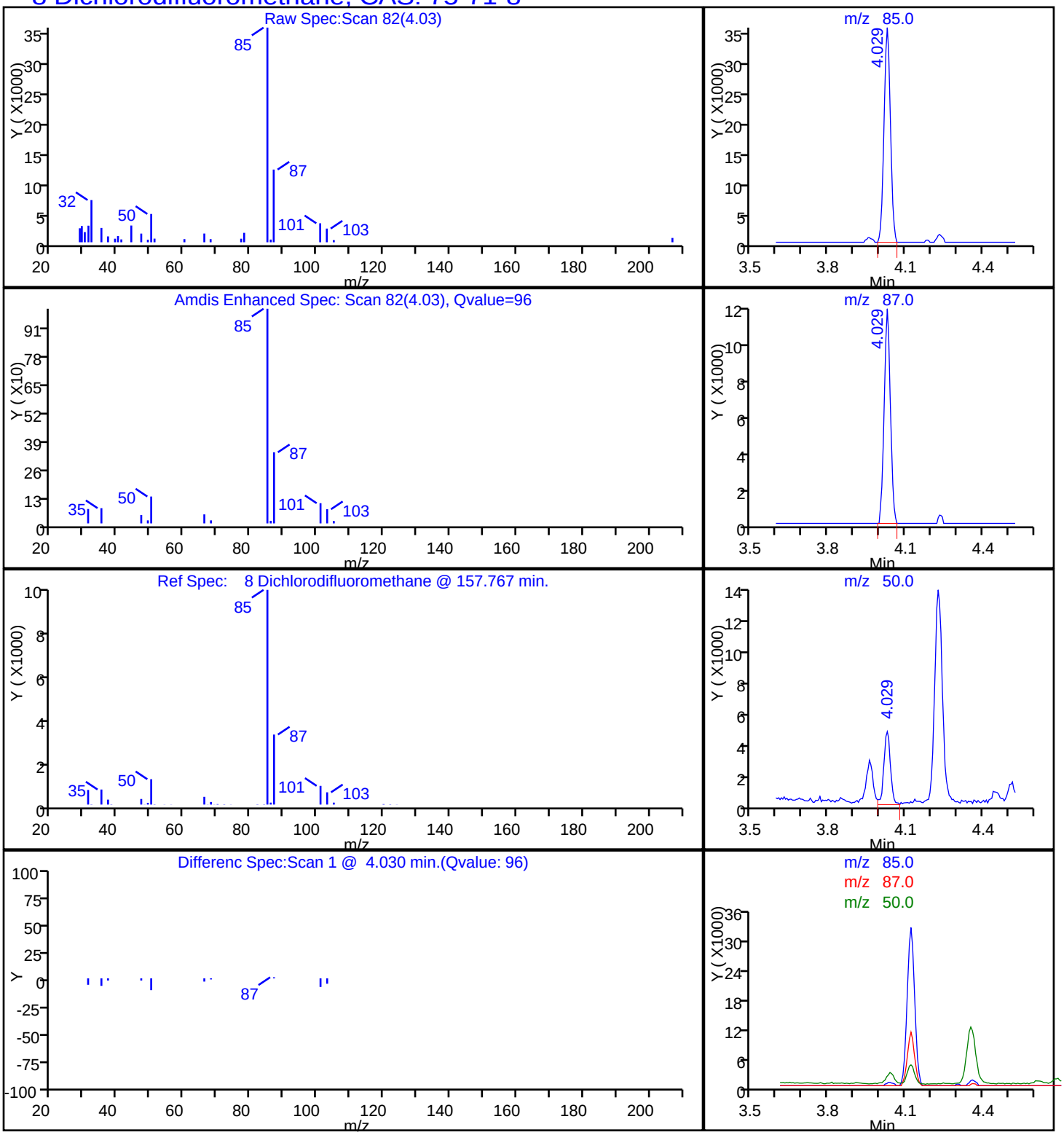
Report Date: 19-Mar-2014 13:01:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

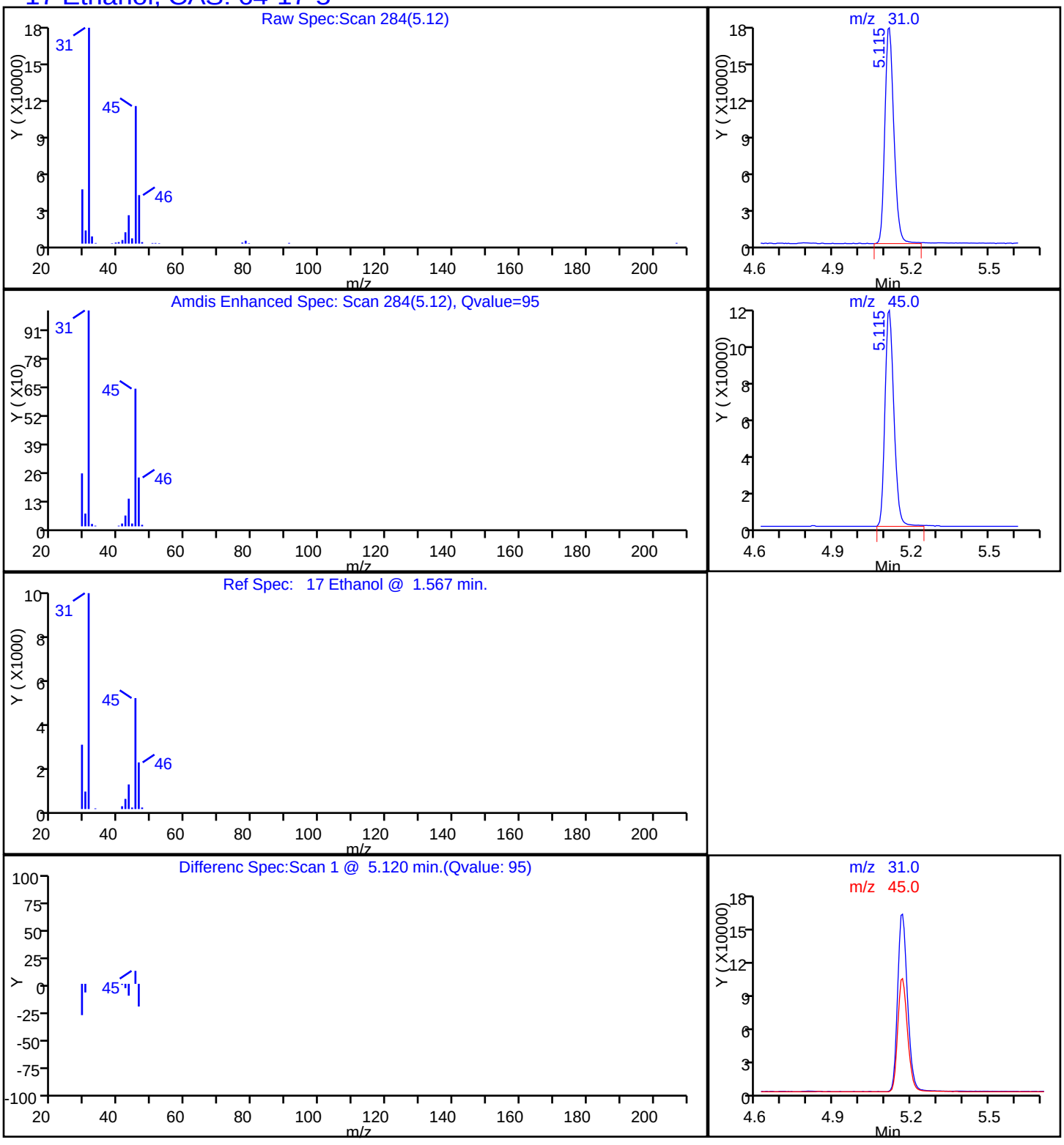


Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D		
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



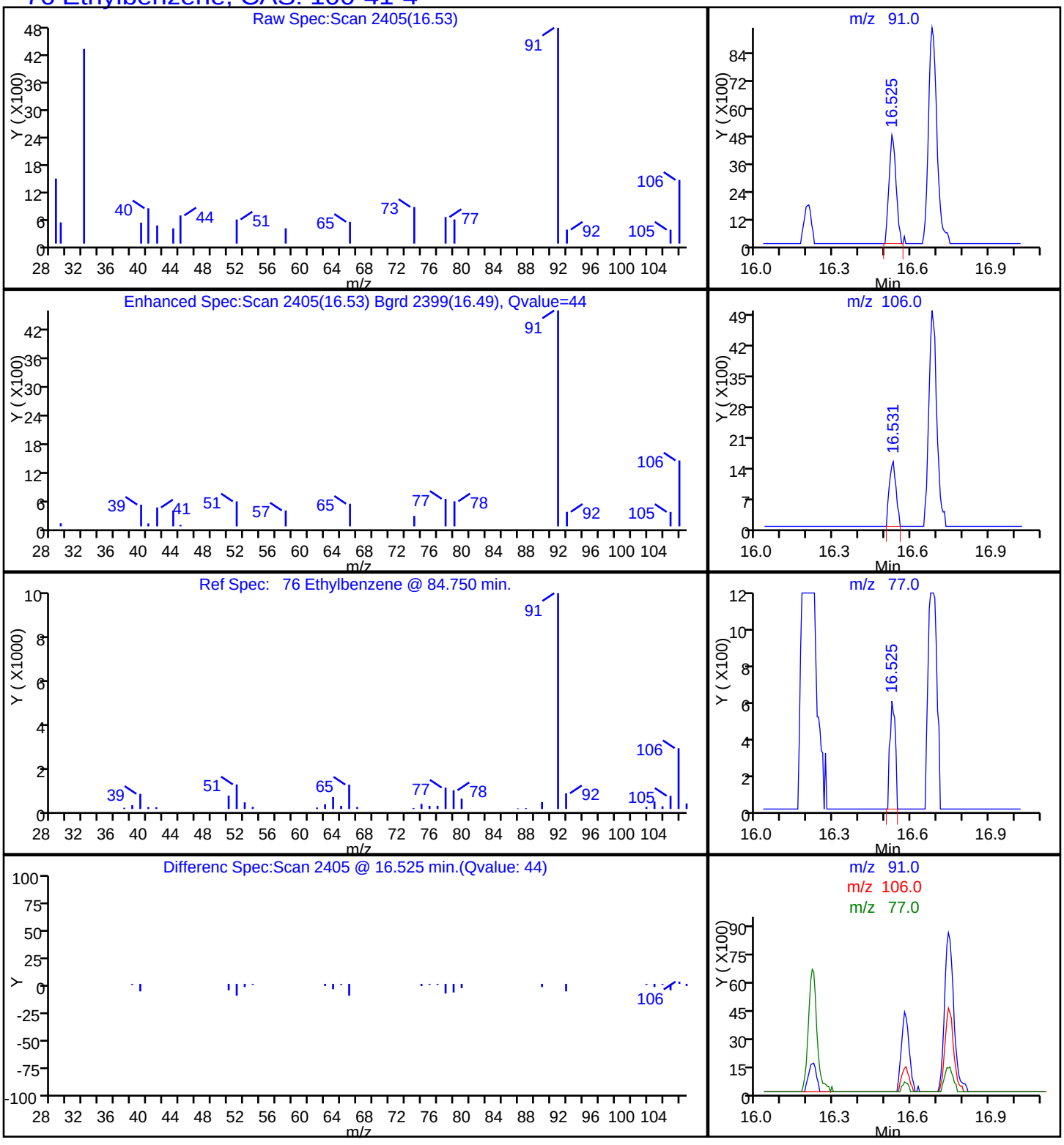
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



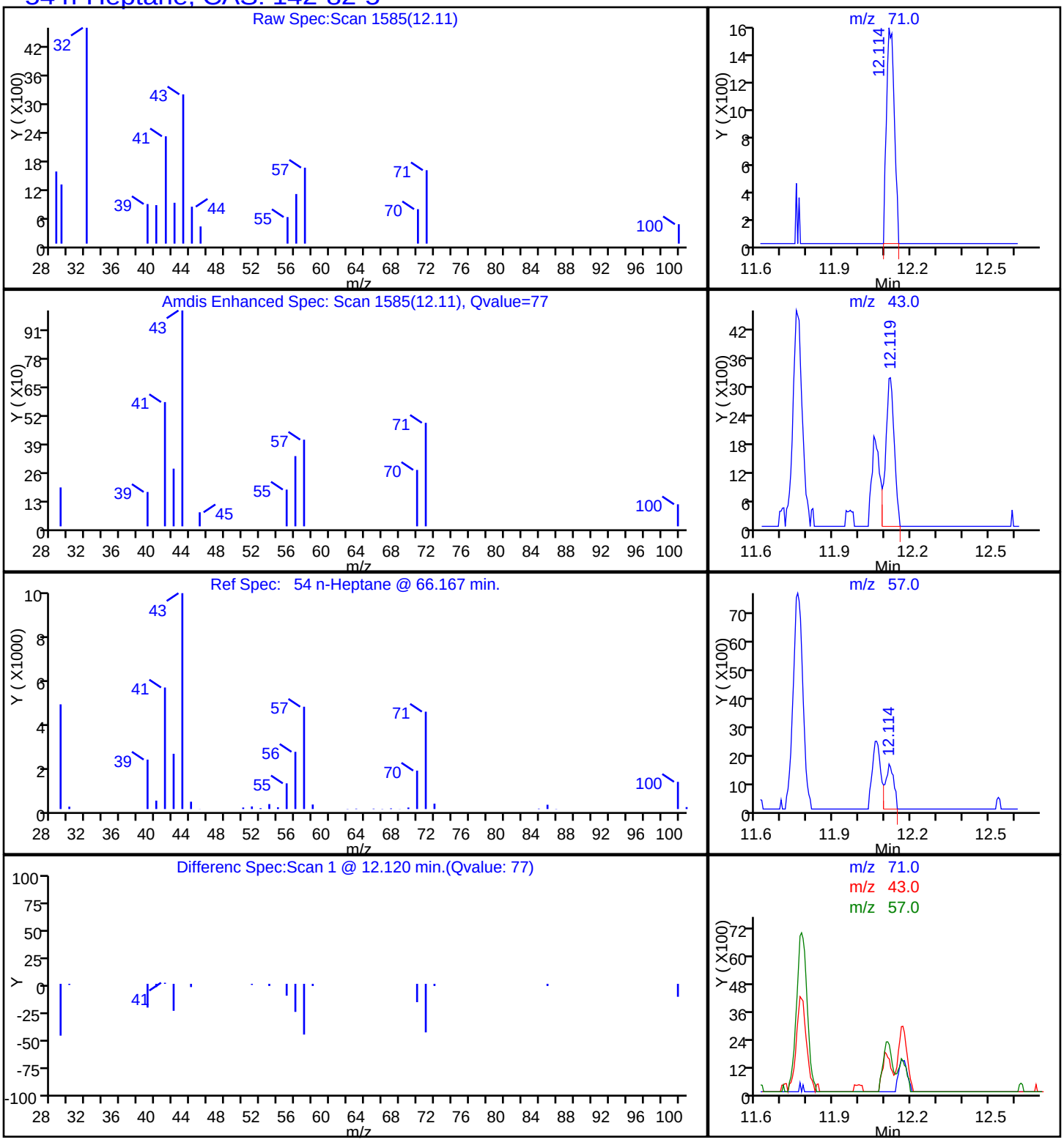
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

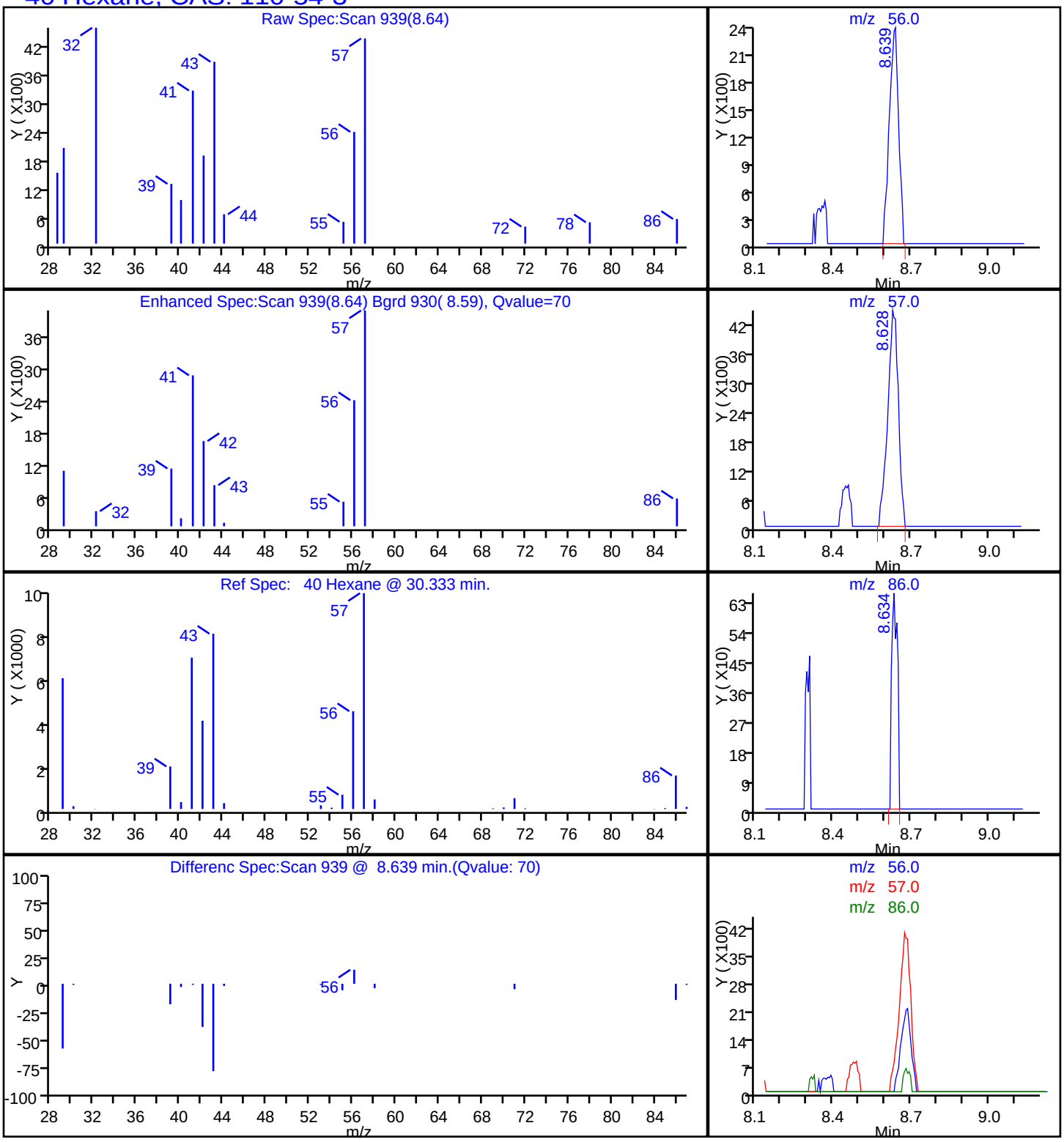
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

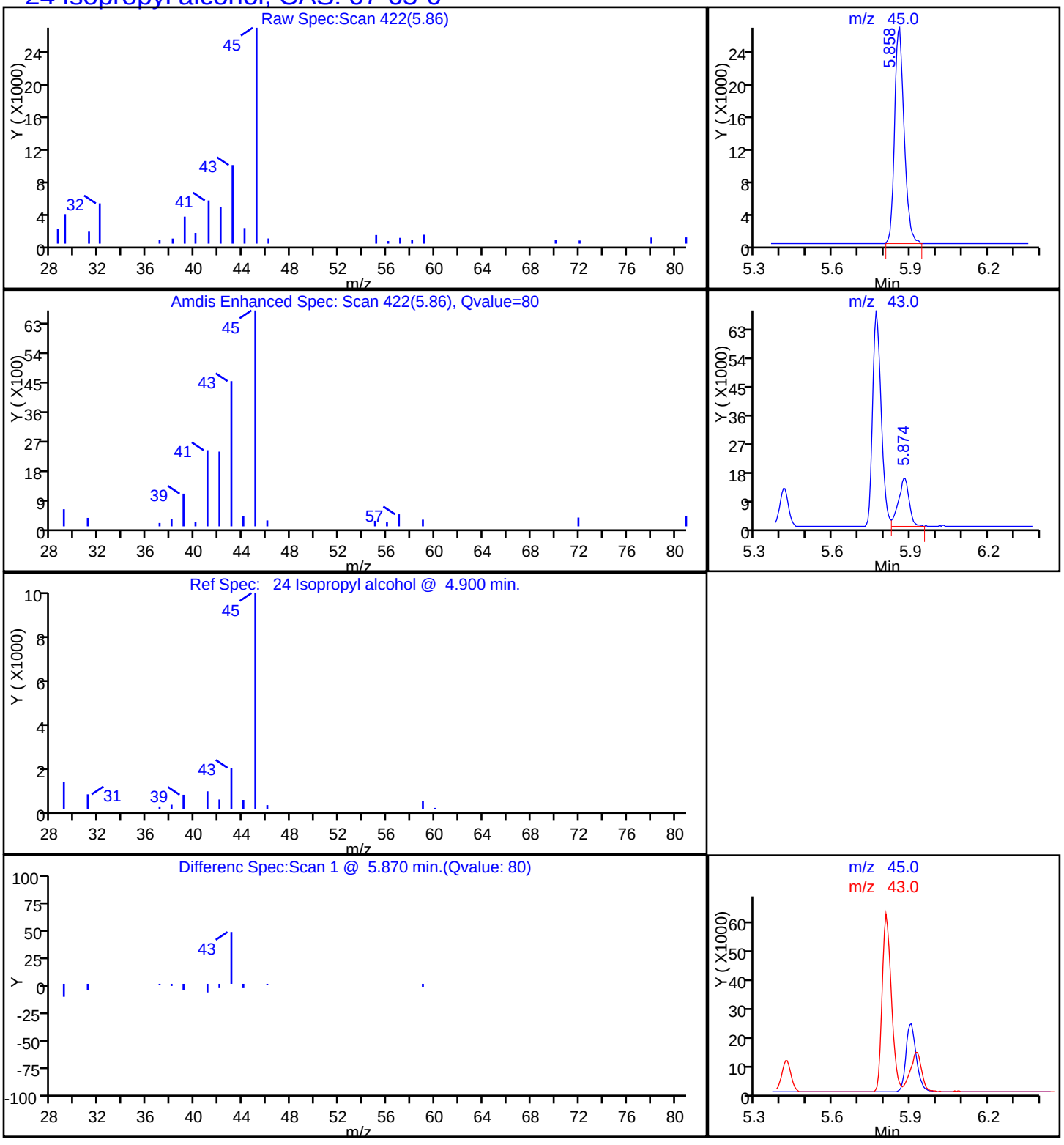
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D				
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

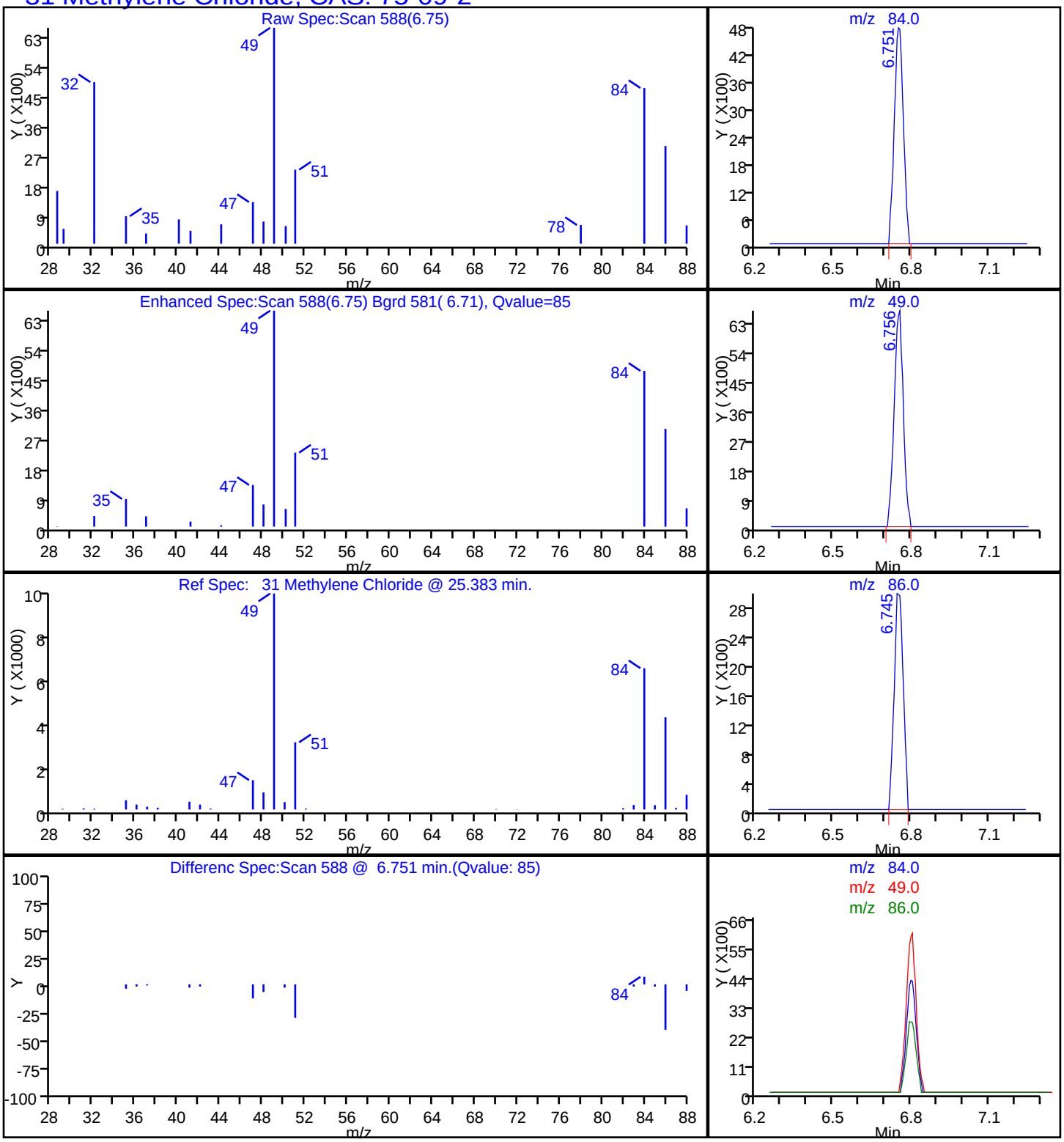
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



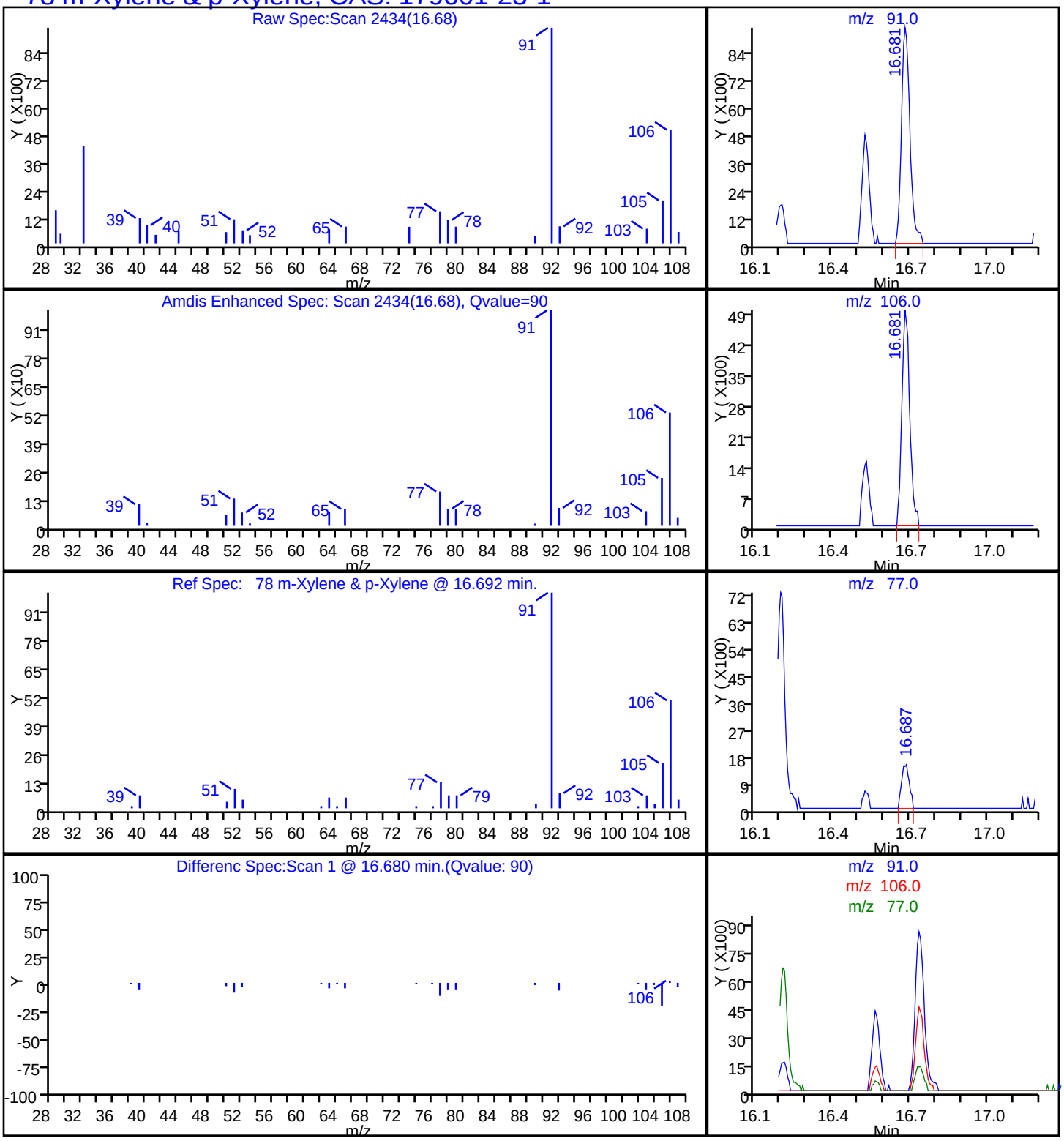
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



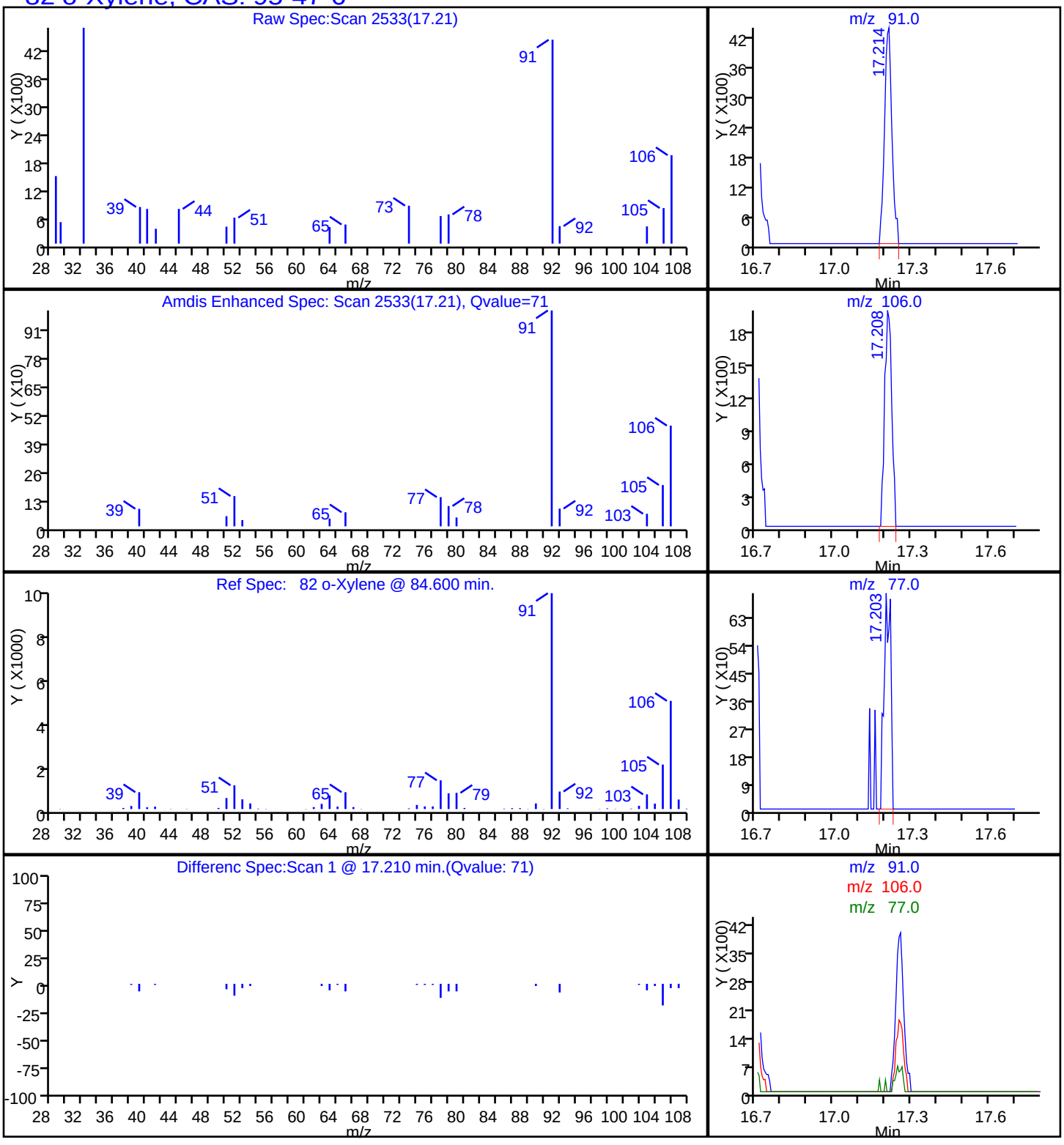
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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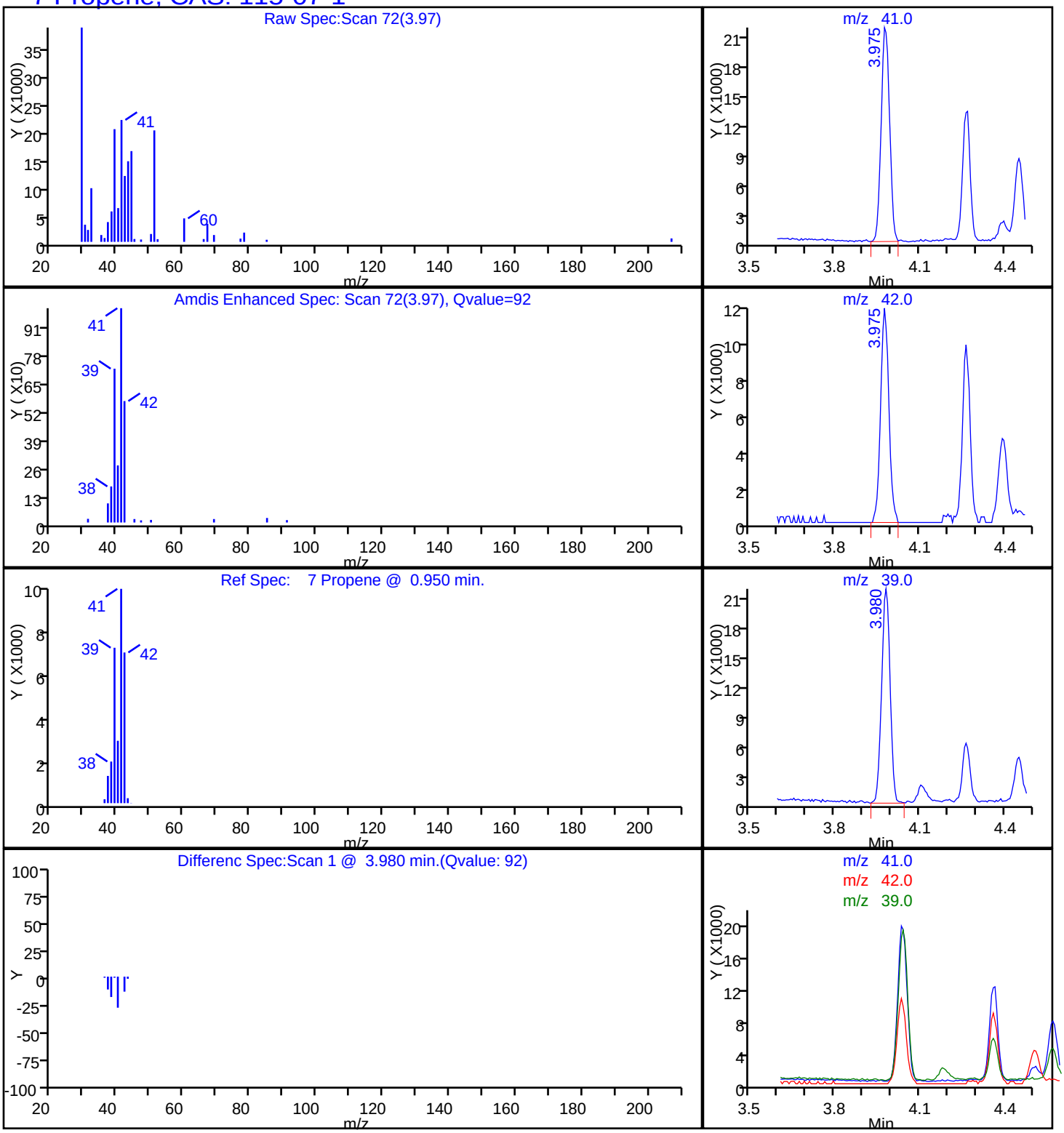
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



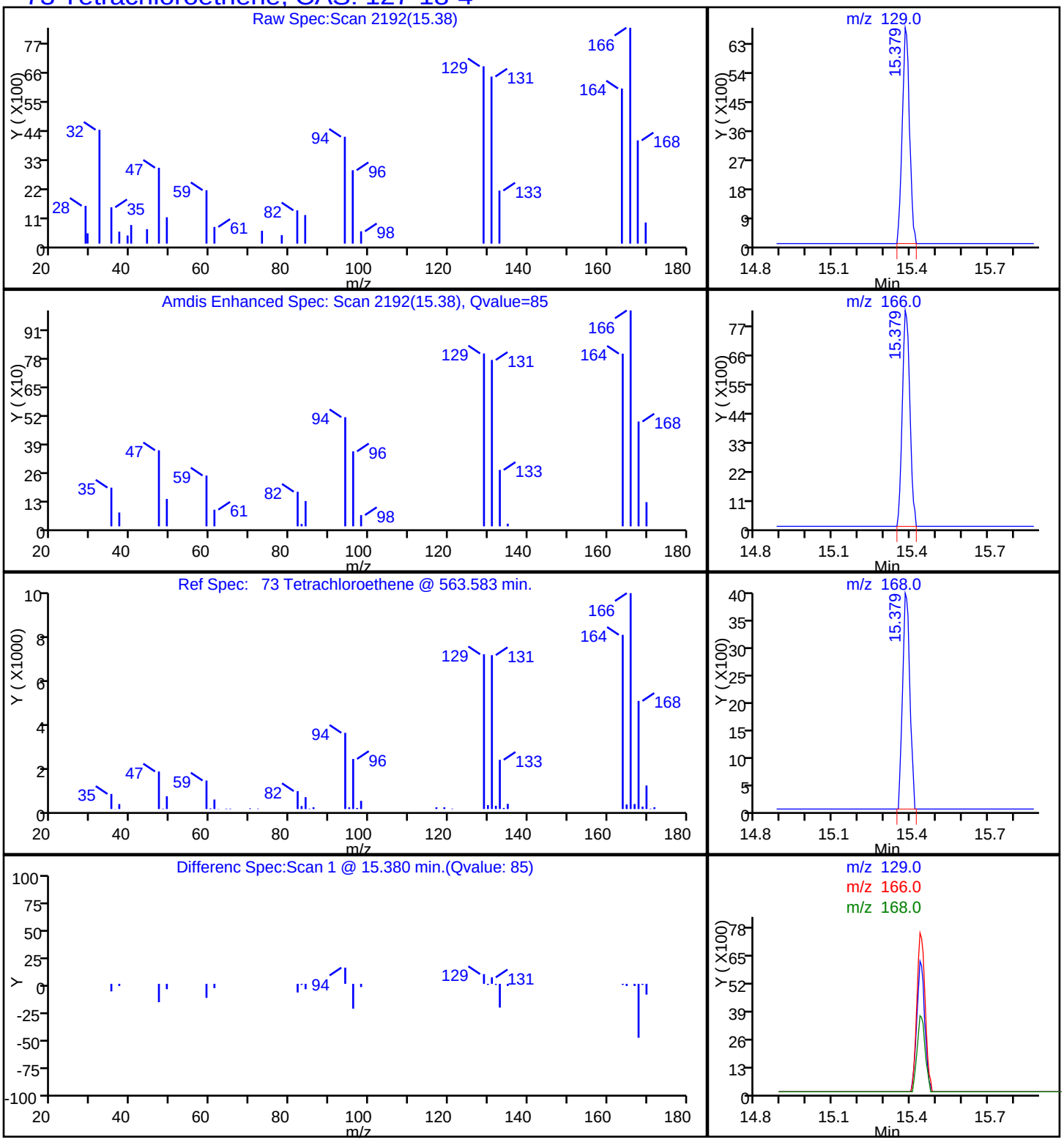
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3
Client ID:	IA6-E14		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



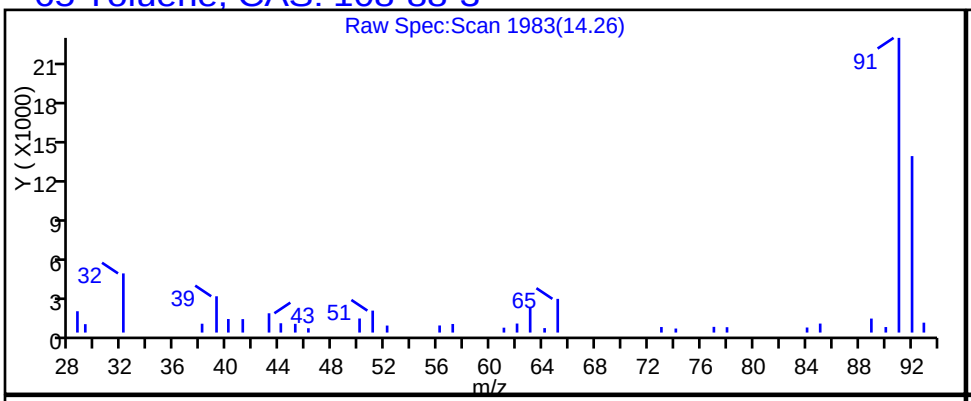
Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

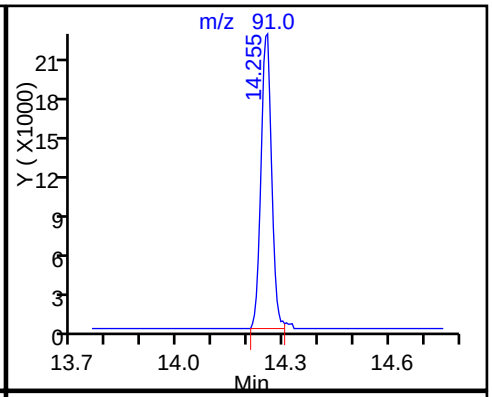
TestAmerica Knoxville

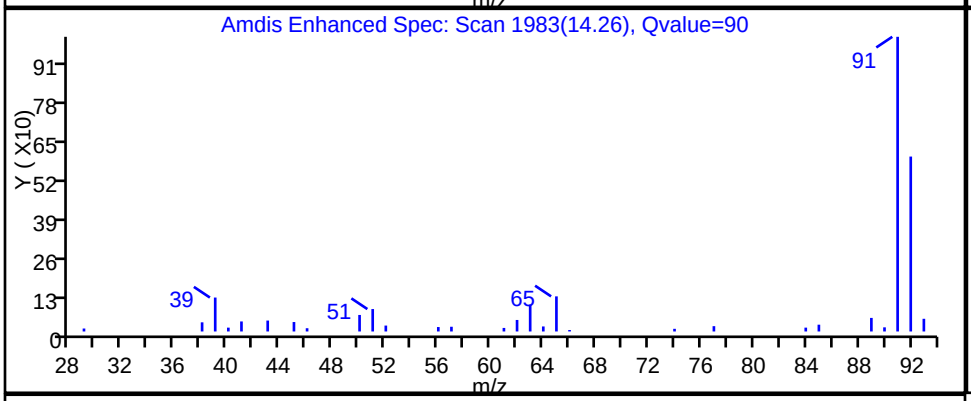
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

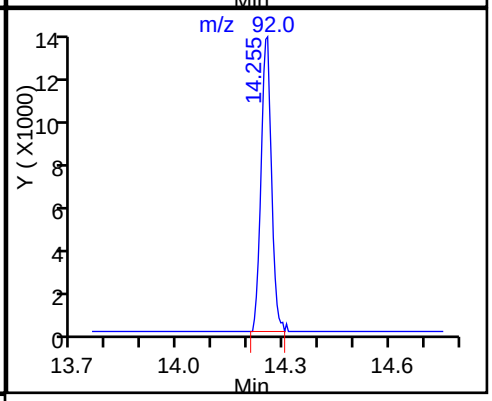
Injection Date:	19-Mar-2014 00:36:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-3	Lab Sample ID:	140-1063-3		
Client ID:	IA6-E14				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

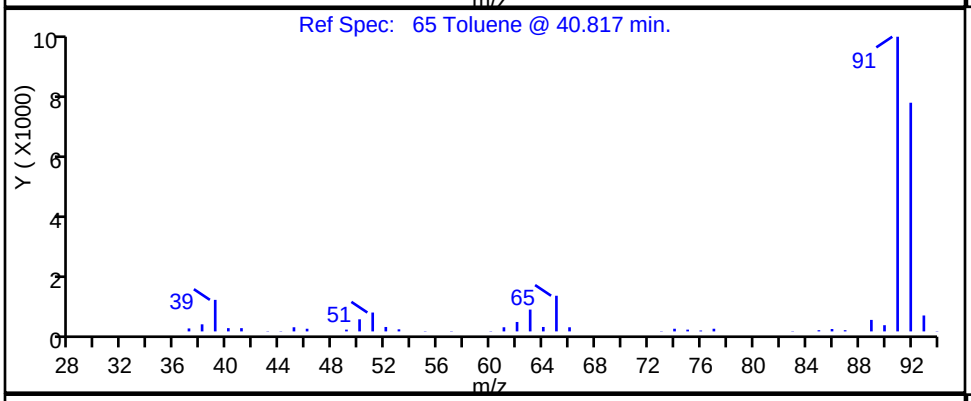
65 Toluene, CAS: 108-88-3

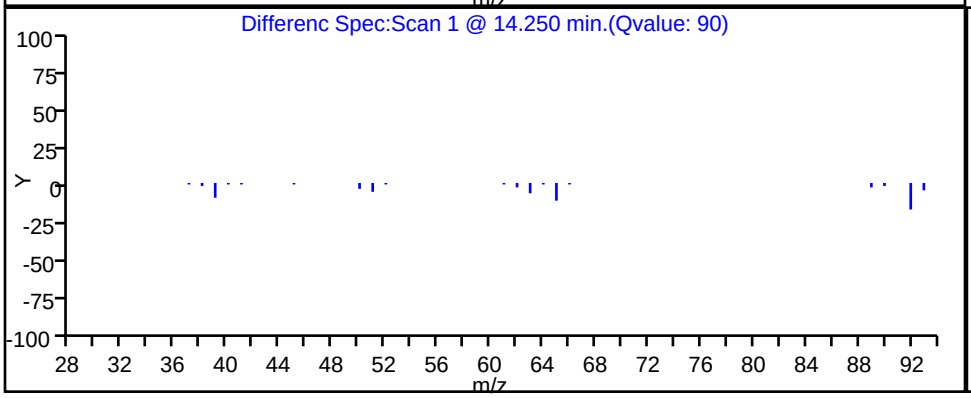


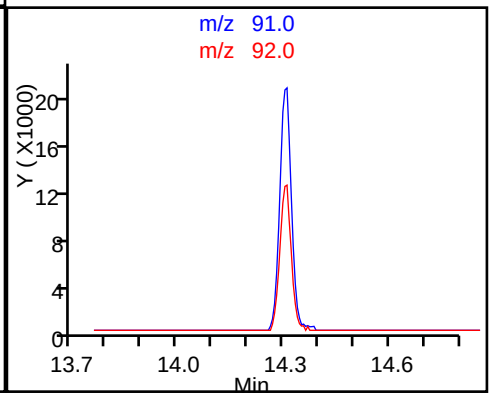












Report Date: 19-Mar-2014 13:01:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30 Instrument ID: MJ

Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3

Client ID: IA6-E14

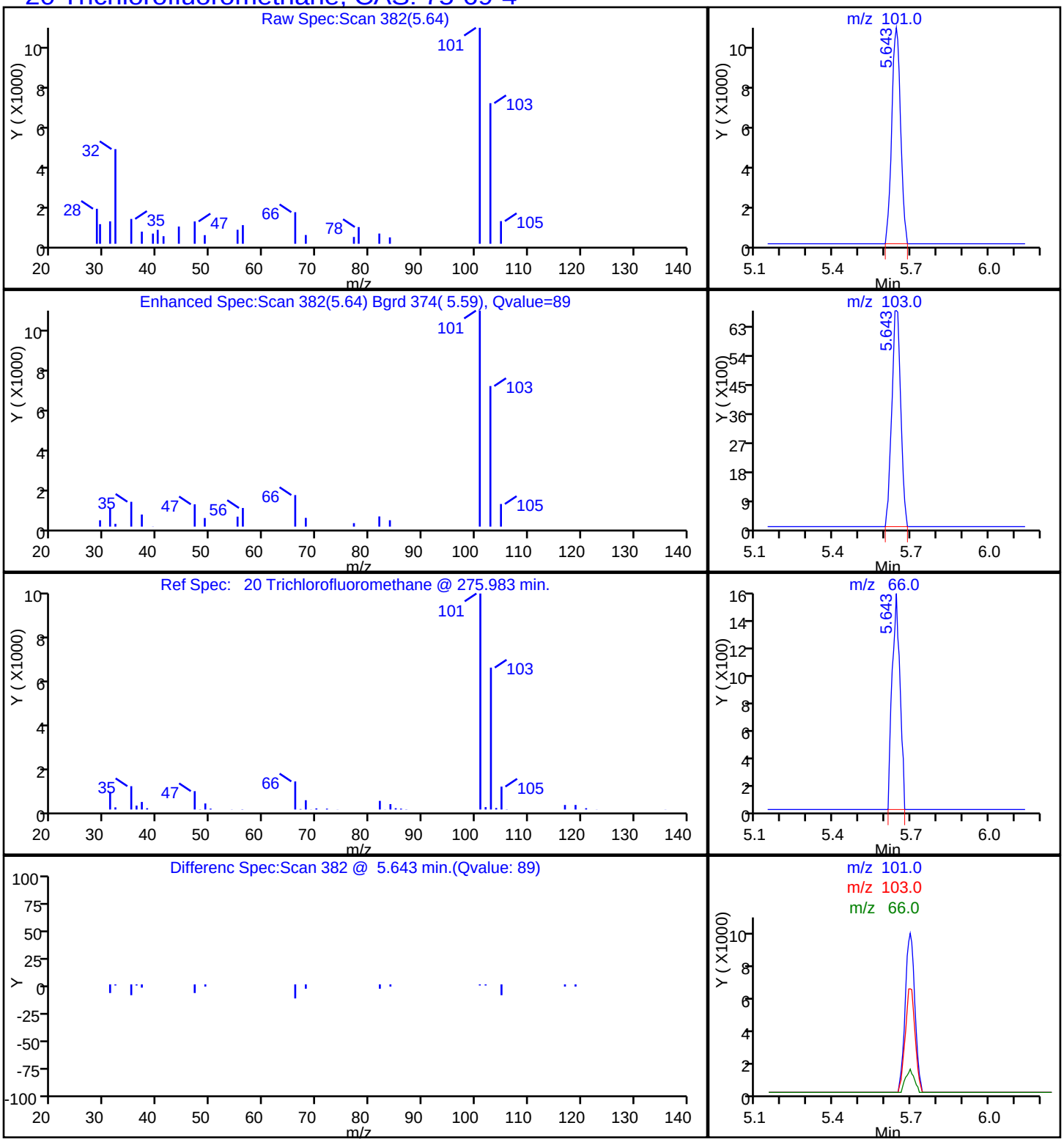
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.090	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.12	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.21	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.53		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.49	J	0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.31		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.075	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.37		0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.048	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	36		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.10	J	0.20	0.068
142-82-5	Heptane	100.21	0.086	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.22	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.8		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.42	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.30		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.12	J	0.20	0.061
115-07-1	Propene	42.08	0.77	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.19	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.62		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.44	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.58	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.61	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.0	J	2.0	0.18
67-64-1	Acetone	58.08	5.6	J	12	3.3
71-43-2	Benzene	78.11	0.98		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.47	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.8		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	67		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.44	J	0.87	0.30
142-82-5	Heptane	100.21	0.35	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.77	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.51	J	0.87	0.26
115-07-1	Propene	42.08	1.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.3	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4

Matrix: Air Lab File ID: JC18P207.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:52

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D
Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4
Client ID: IA7-E14
Sample Type: Client
Inject. Date: 19-Mar-2014 01:31:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-4
Misc. Info.: J031814,TO15,,140-0000527-013
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:00:34 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:00:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	355969	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1695531	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1347420	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	878362	3.69	
7 Propene	41	3.981	3.971	0.010	94	33515	0.3071	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	62092	0.1761	
9 Chloromethane	52	4.229	4.229	0.0	97	8214	0.2051	
17 Ethanol	31	5.116	5.116	0.0	95	409026	14.3	
19 2-Methylbutane	43	5.412	5.407	0.005	92	32318	0.2138	
20 Trichlorofluoromethane	101	5.638	5.644	-0.006	89	24838	0.0802	
23 Acetone	58	5.767	5.767	0.0	97	47878	0.9462	
24 Isopropyl alcohol	45	5.848	5.848	0.0	98	258768	1.94	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.580	0.005	62	5883	0.0274	
31 Methylene Chloride	84	6.752	6.757	-0.005	88	15999	0.1680	
39 2-Butanone (MEK)	72	8.602	8.586	0.016	92	2792	0.0829	
40 Hexane	56	8.640	8.635	0.005	90	8377	0.0875	
43 Chloroform	83	9.388	9.393	-0.005	22	30717	0.1481	
48 Benzene	78	11.023	11.023	0.0	95	35630	0.1225	
49 Cyclohexane	69	11.034	11.034	0.0	28	1101	0.0192	
50 Carbon tetrachloride	117	11.050	11.050	0.0	86	7162	0.0298	
53 Isooctane	57	11.760	11.760	0.0	91	24719	0.0498	
54 n-Heptane	71	12.115	12.120	-0.005	77	3521	0.0342	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	94	34957	0.1967	
65 Toluene	91	14.251	14.256	-0.005	90	61957	0.2479	
73 Tetrachloroethene	129	15.386	15.386	0.0	85	8720	0.0749	
76 Ethylbenzene	91	16.526	16.532	-0.006	61	11134	0.0403	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	94	26610	0.1194	
82 o-Xylene	91	17.209	17.215	-0.006	72	10597	0.0469	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	61	9387	0.0359	

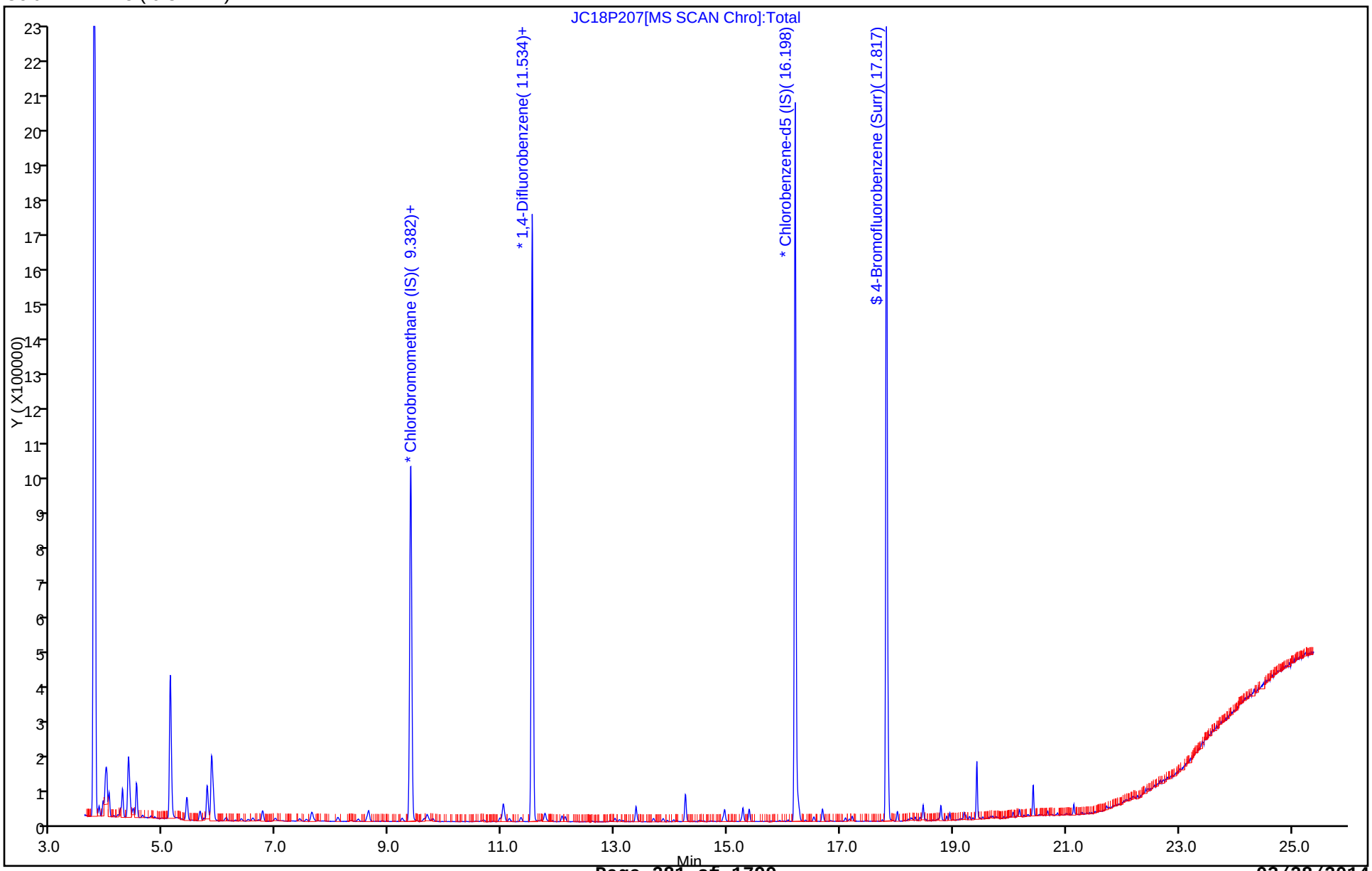
Report Date: 19-Mar-2014 13:00:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4	Worklist Smp#:	13
Client ID:	IA7-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

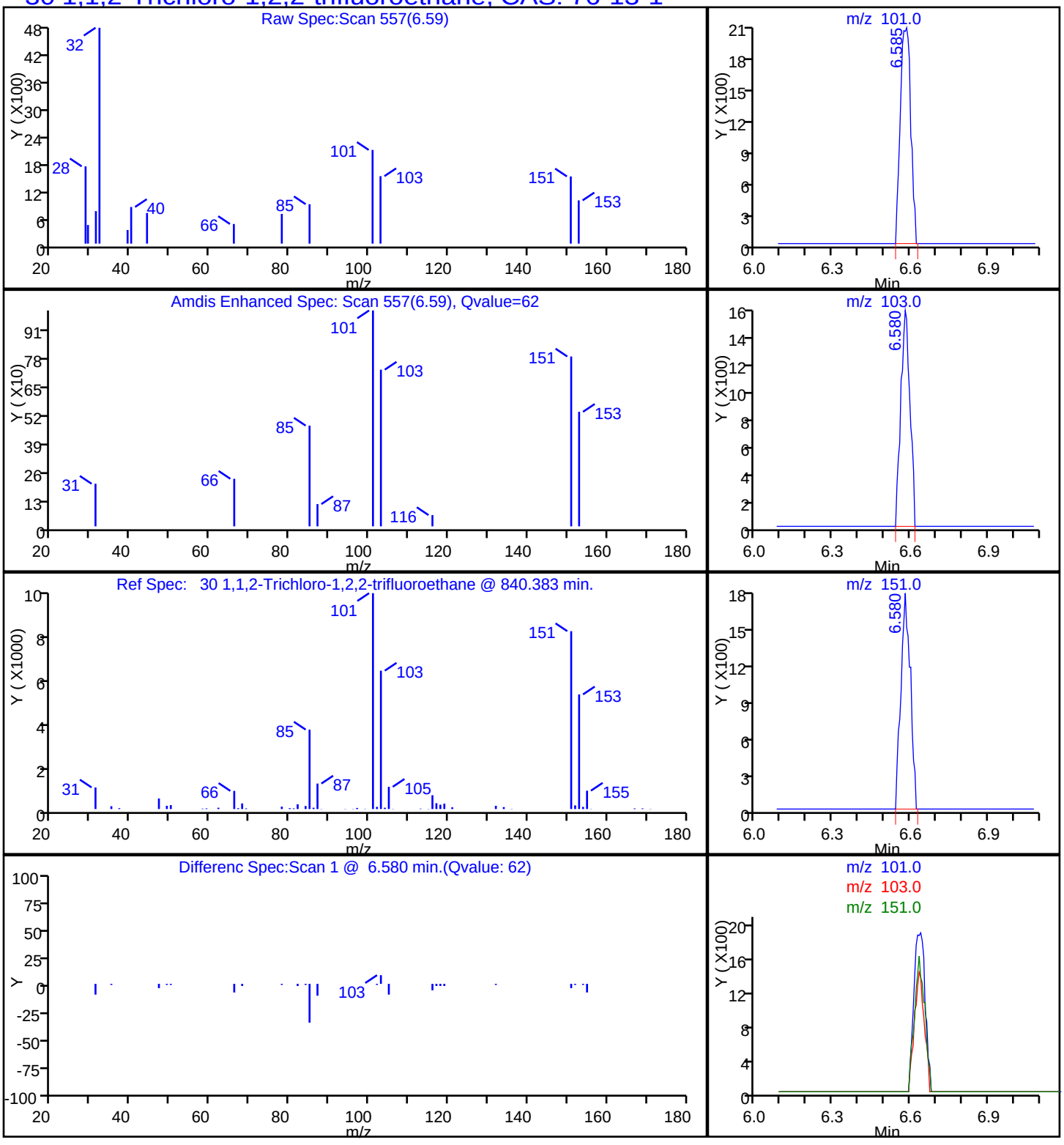


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

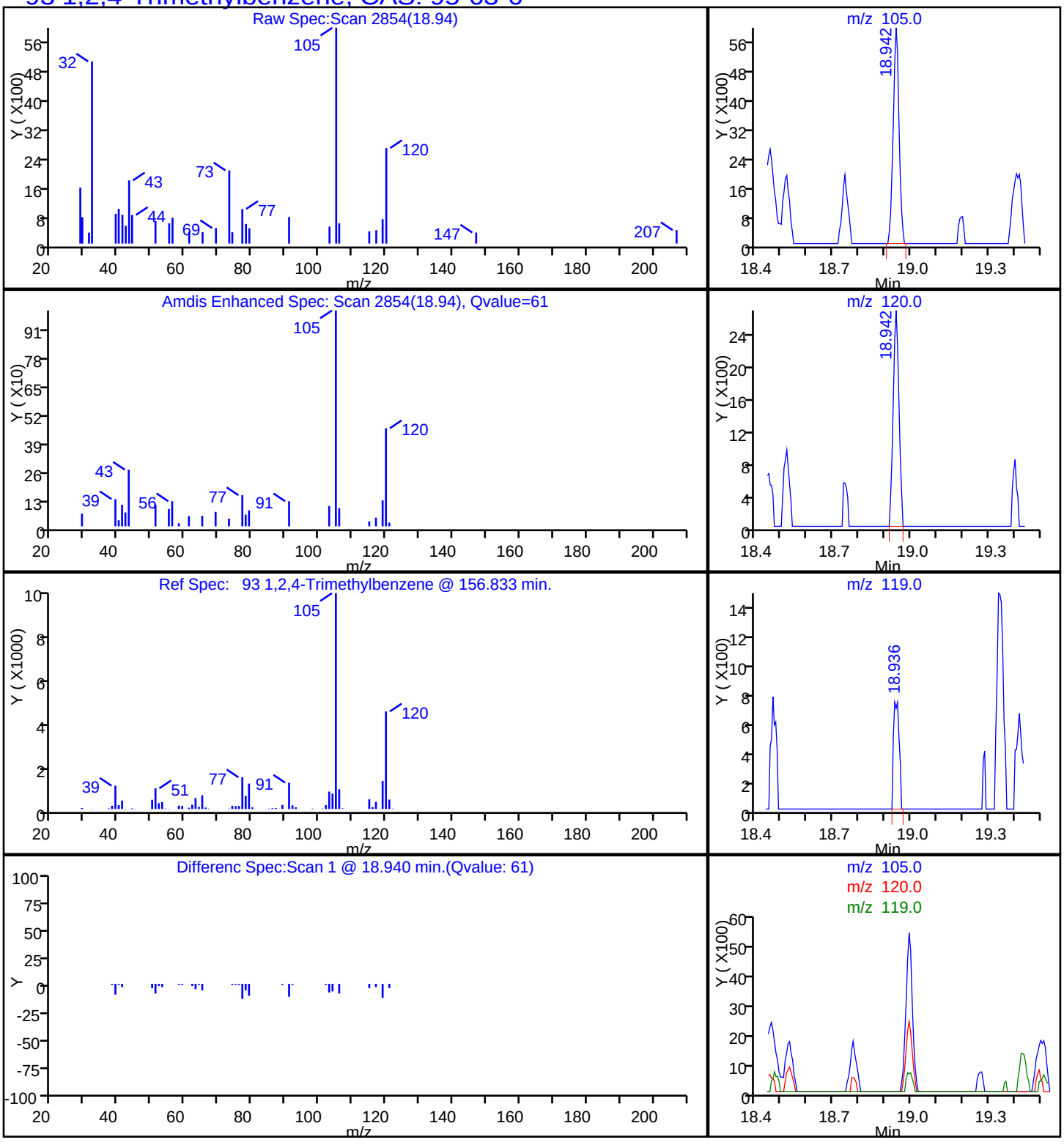


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

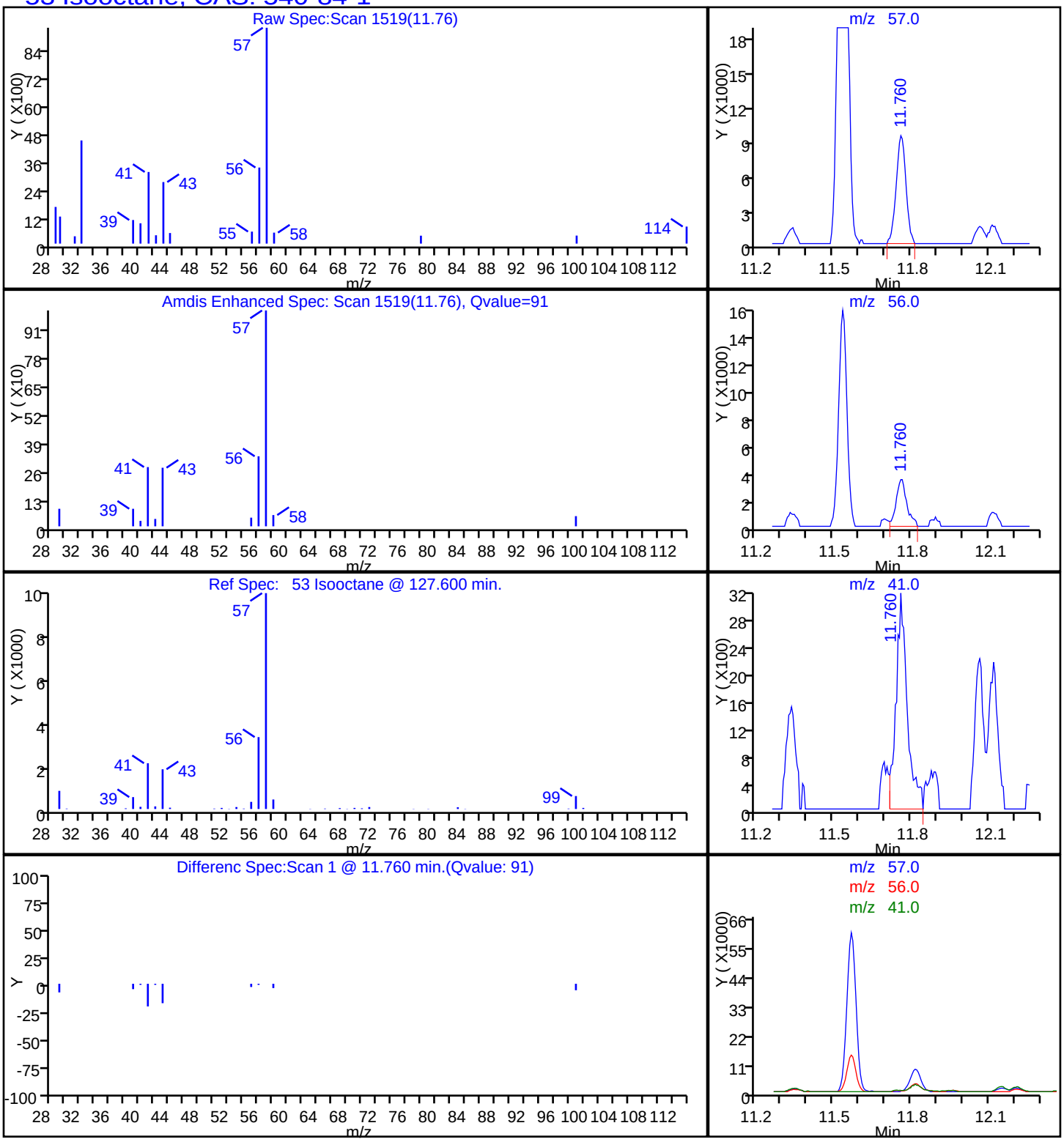


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

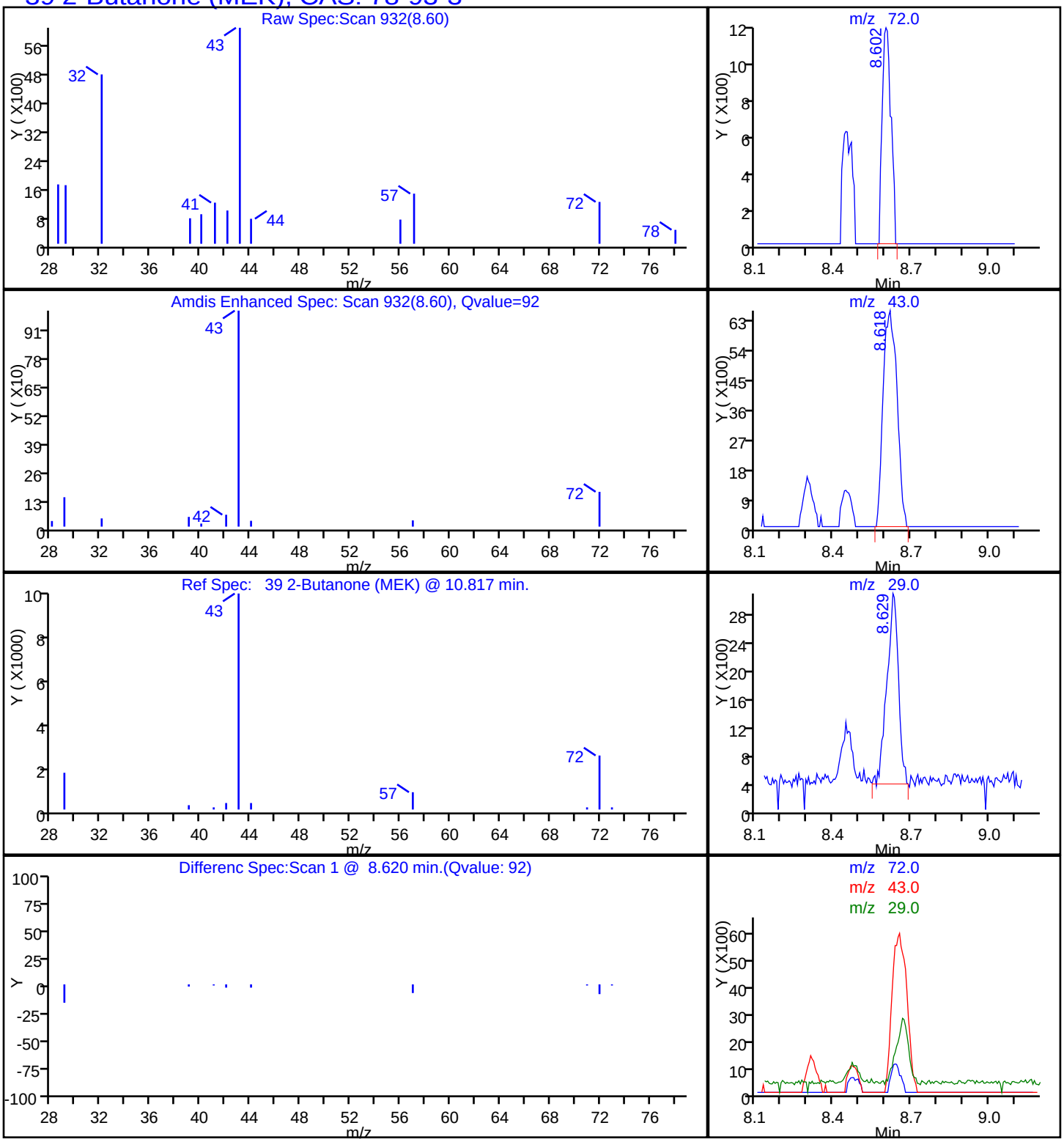
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



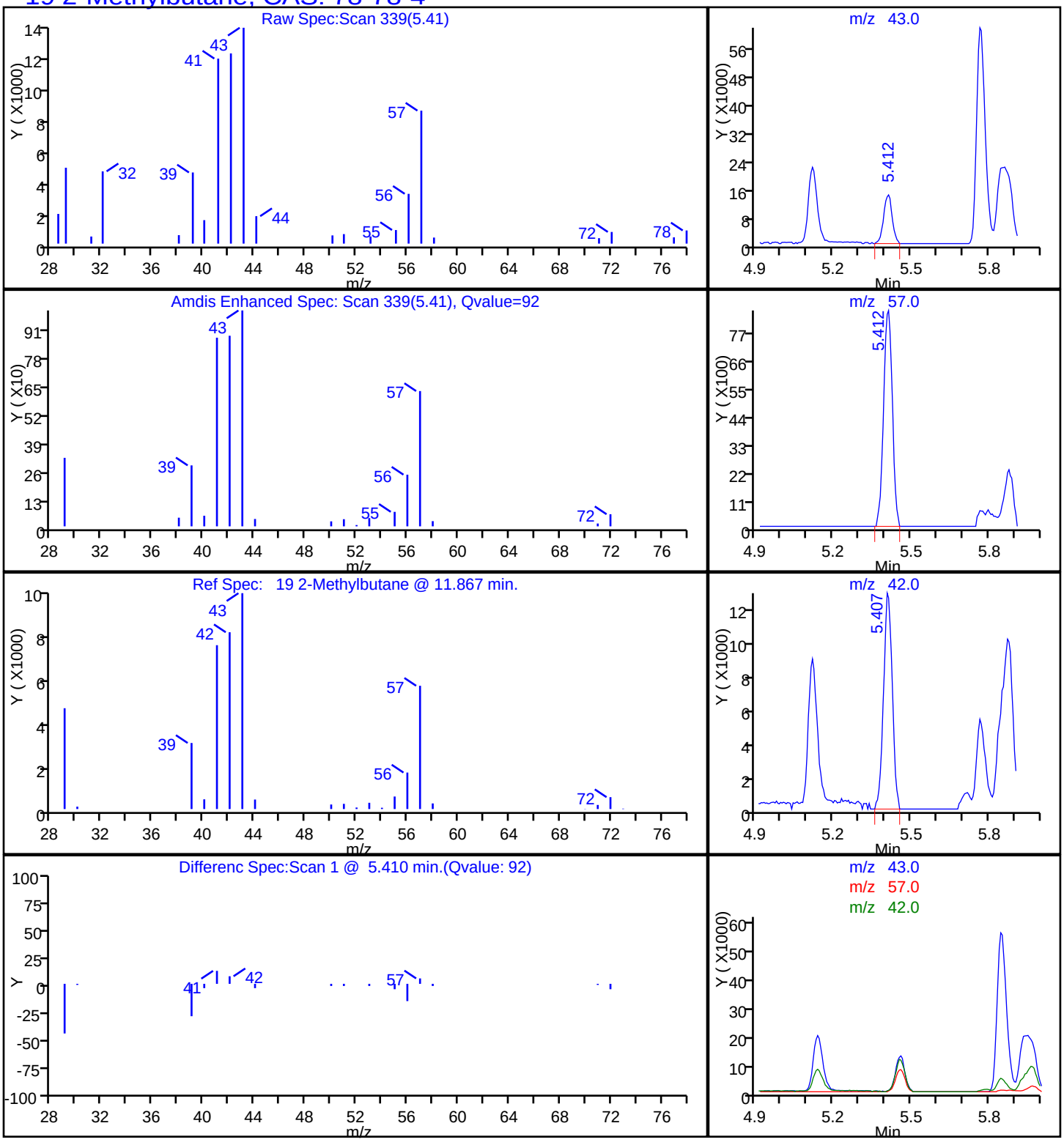
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

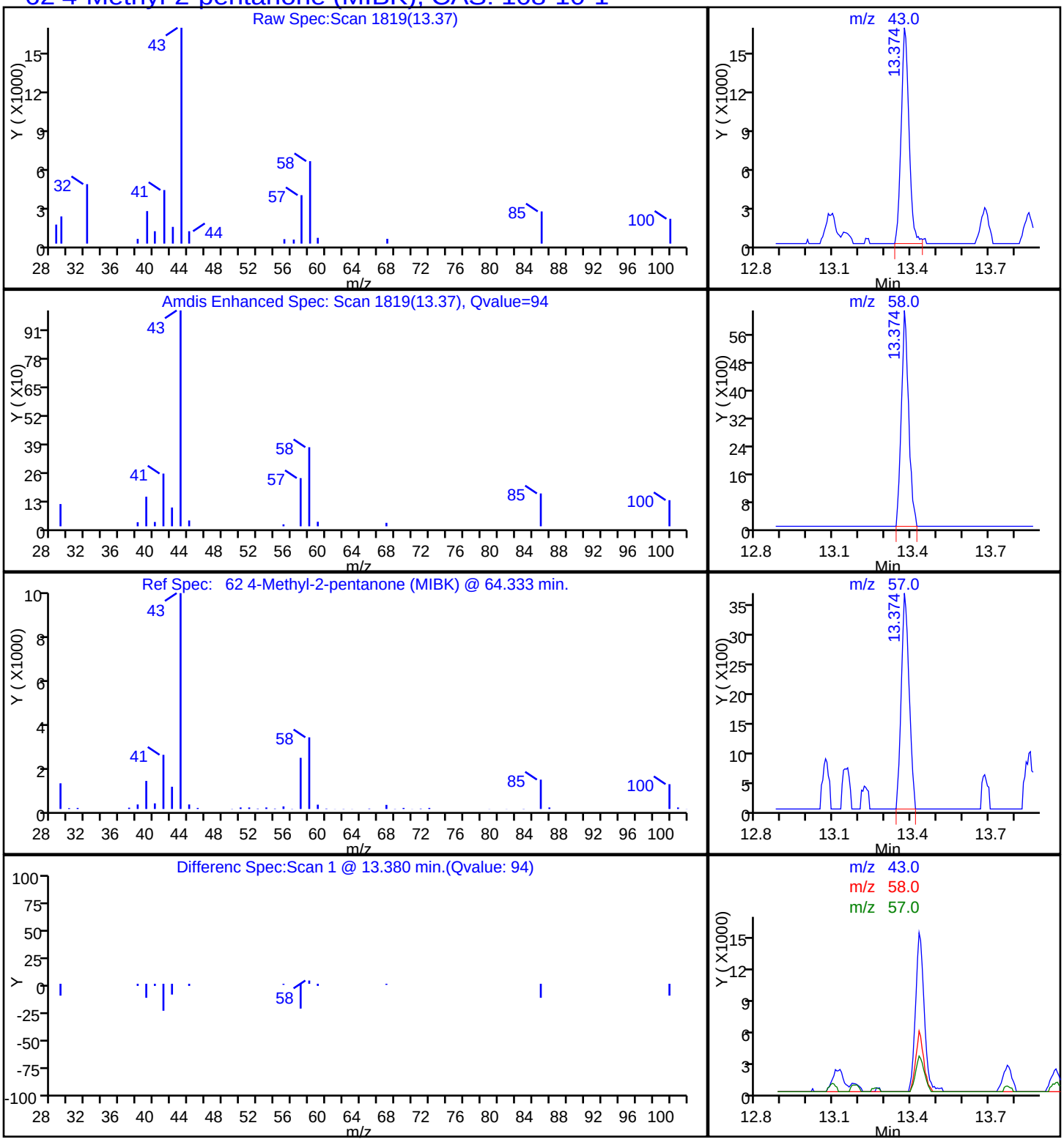
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



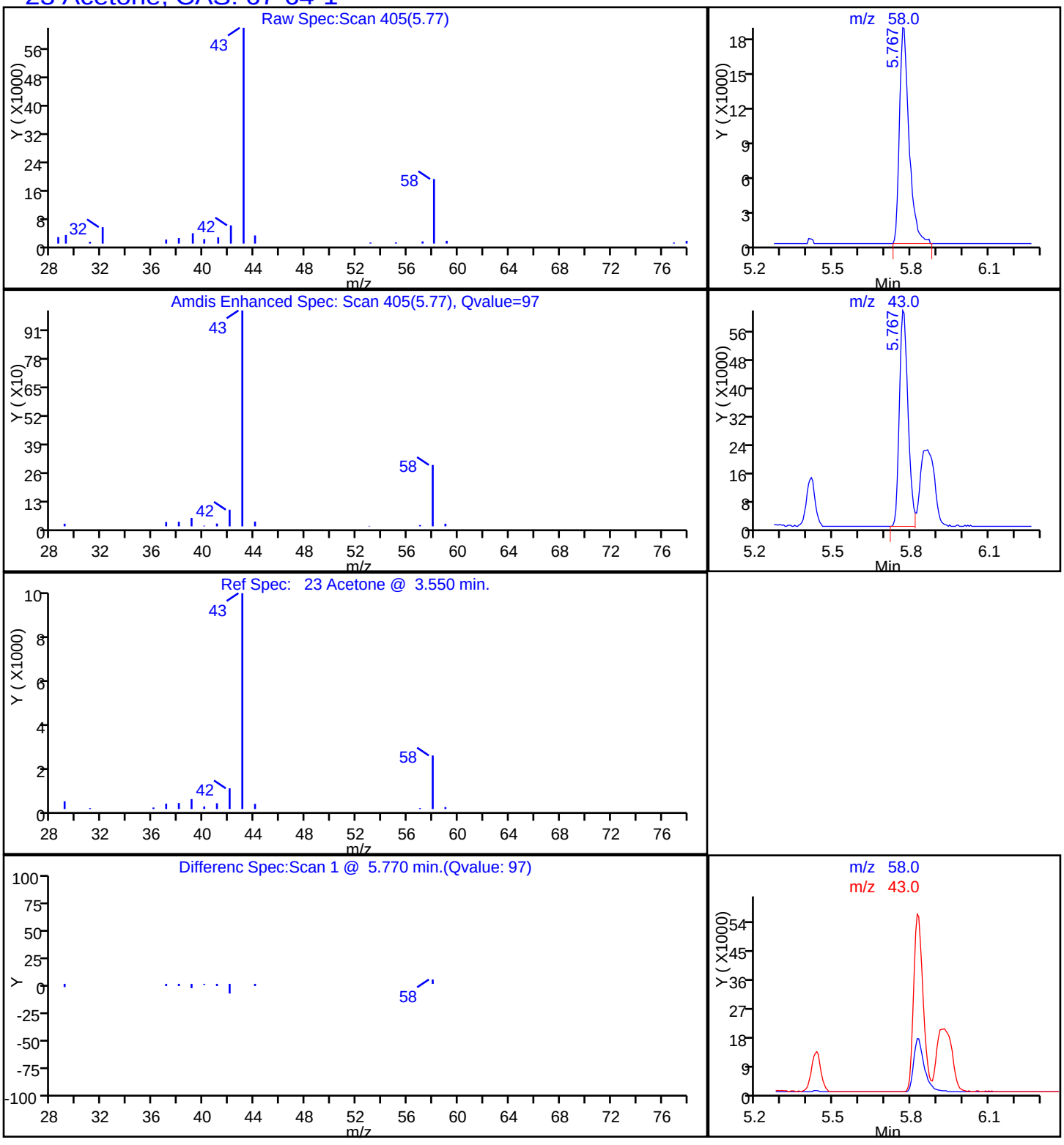
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



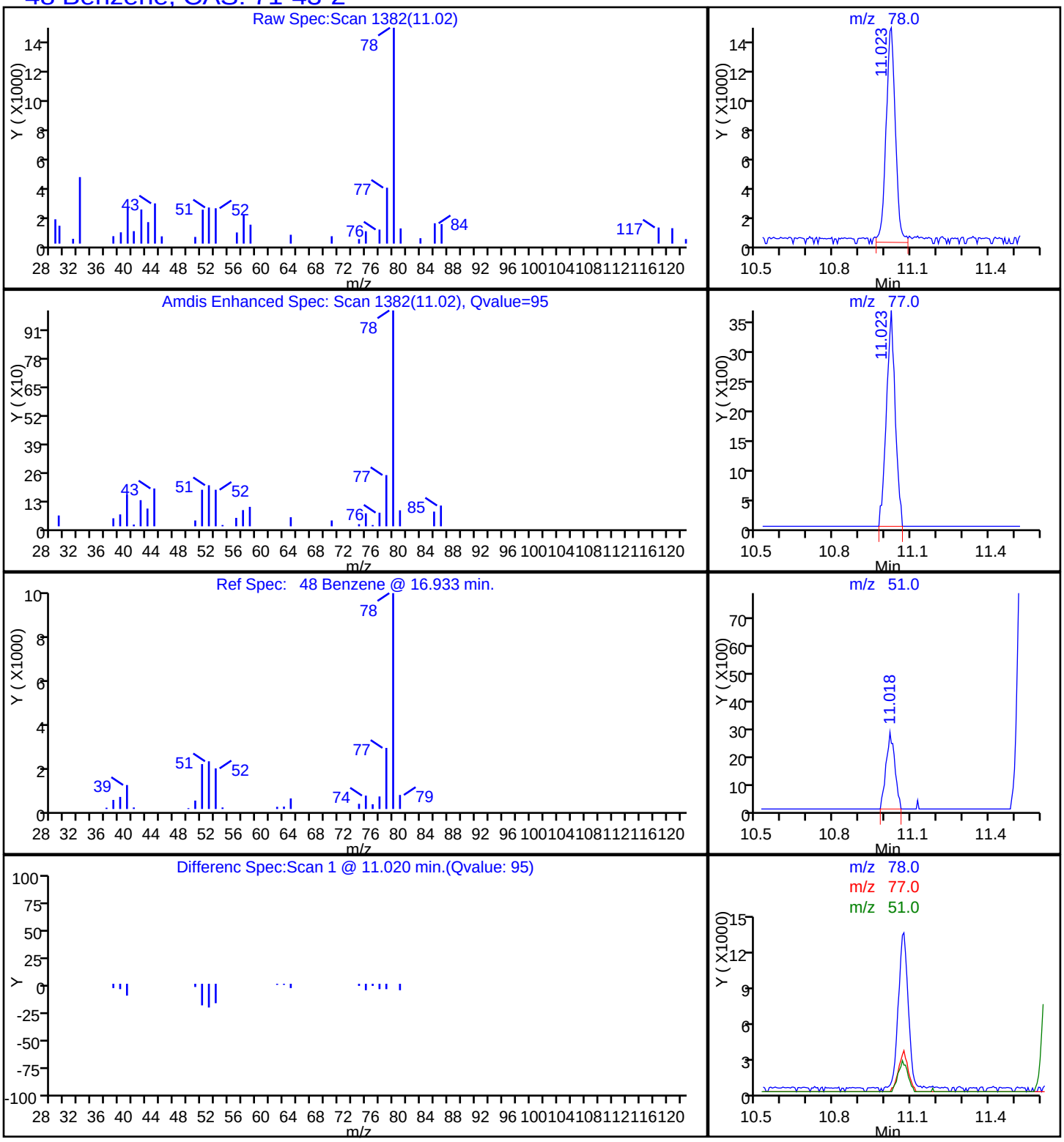
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2

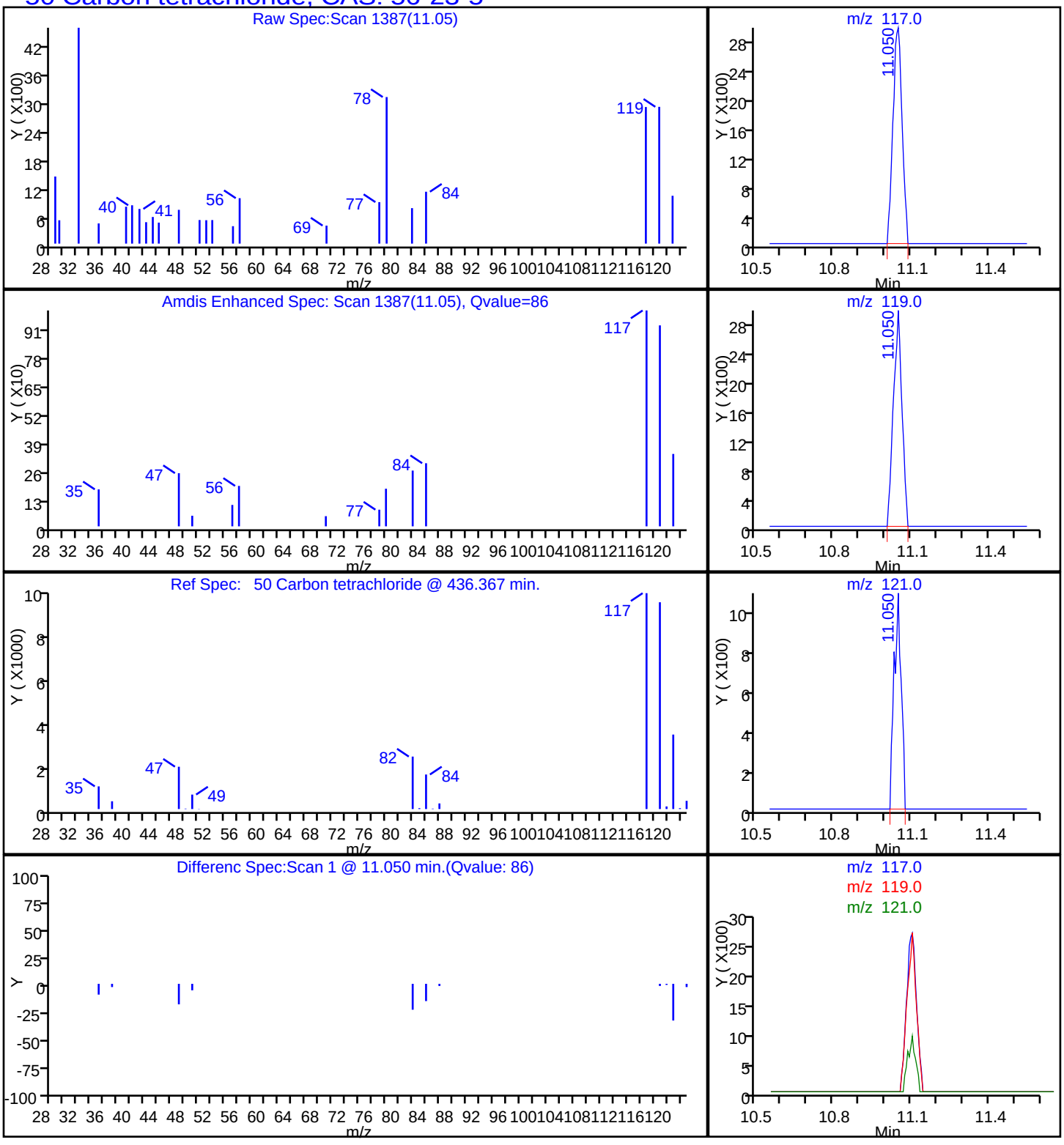


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



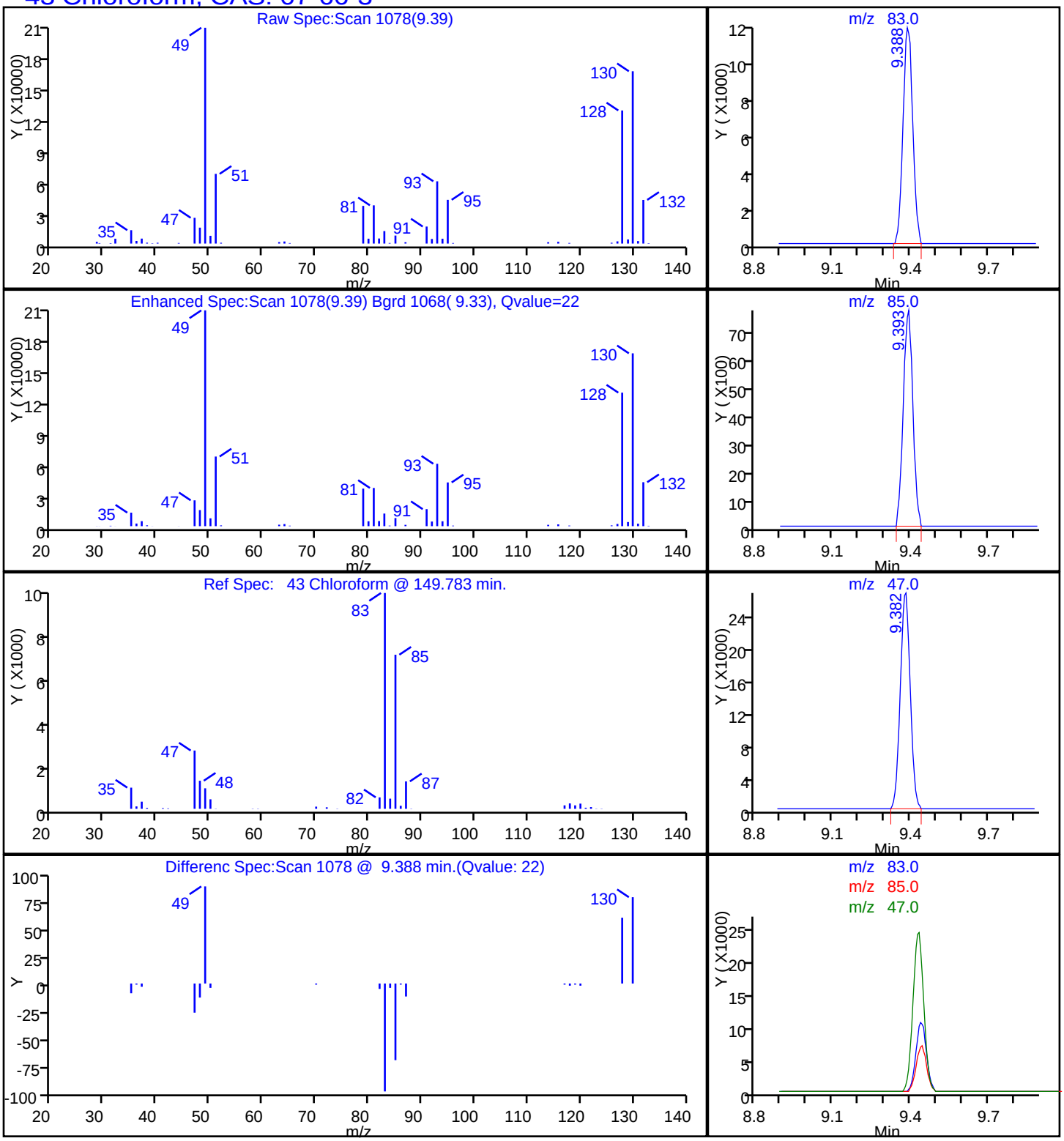
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4
Client ID:	IA7-E14		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



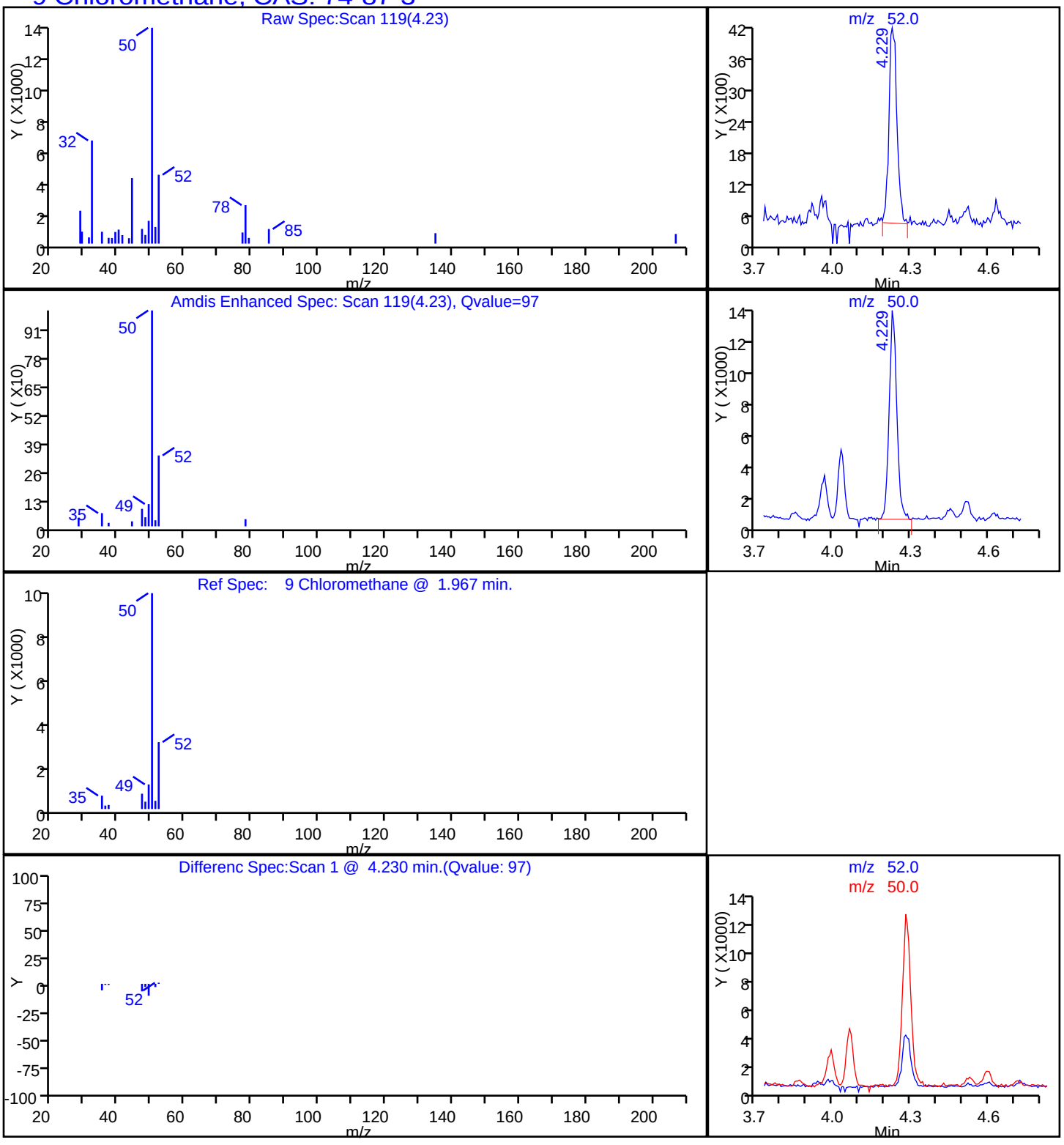
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

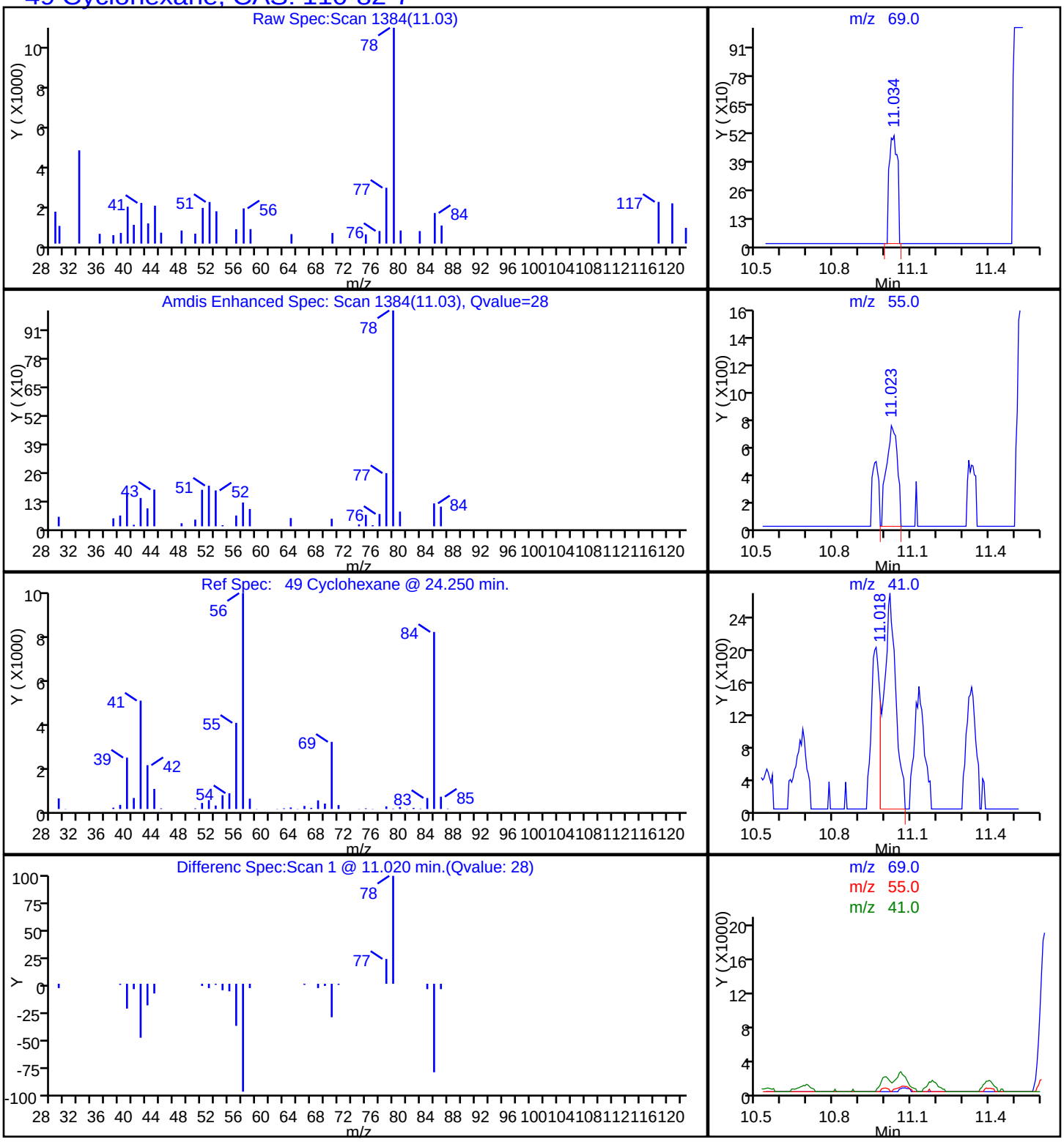
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

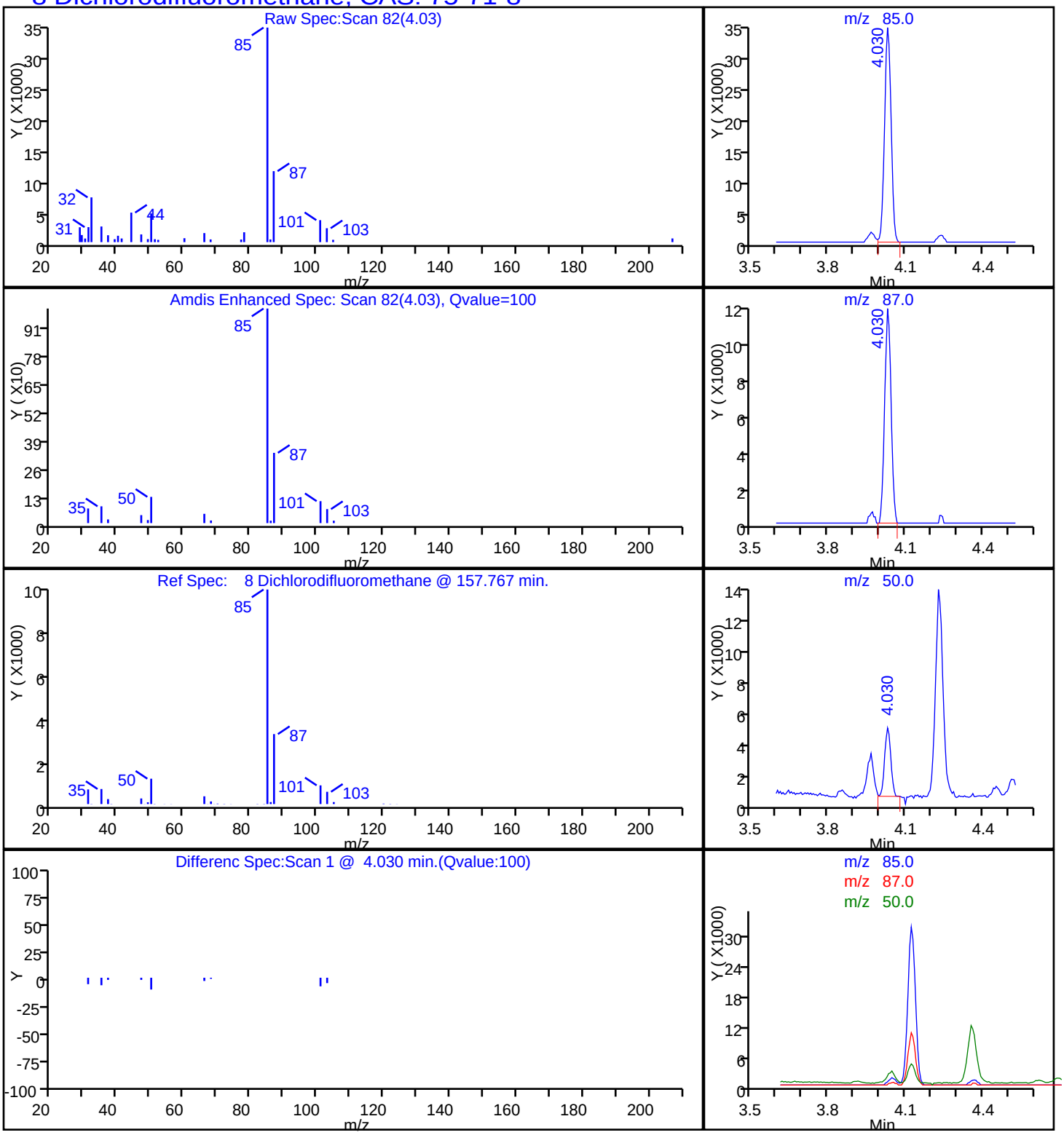
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



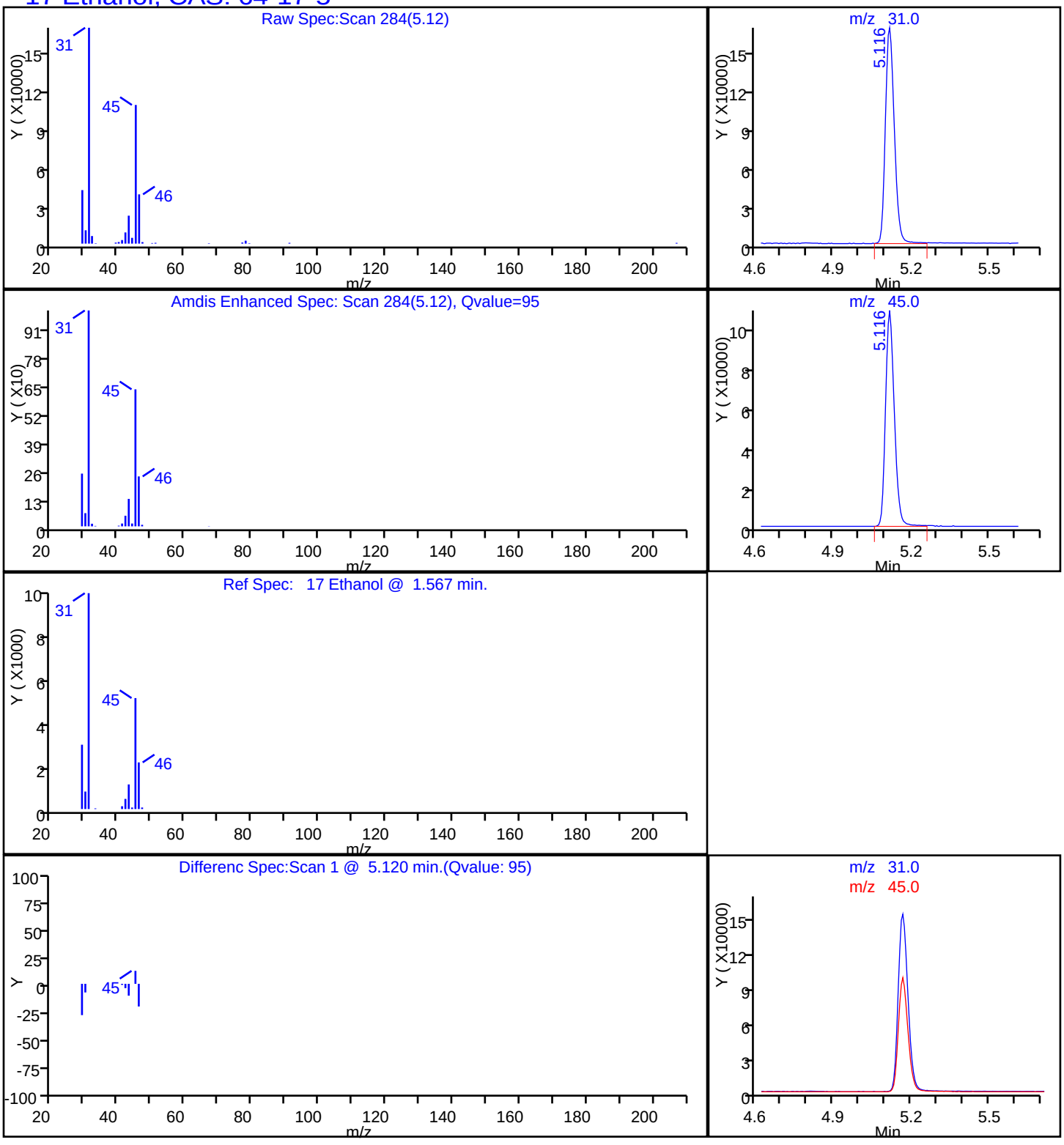
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



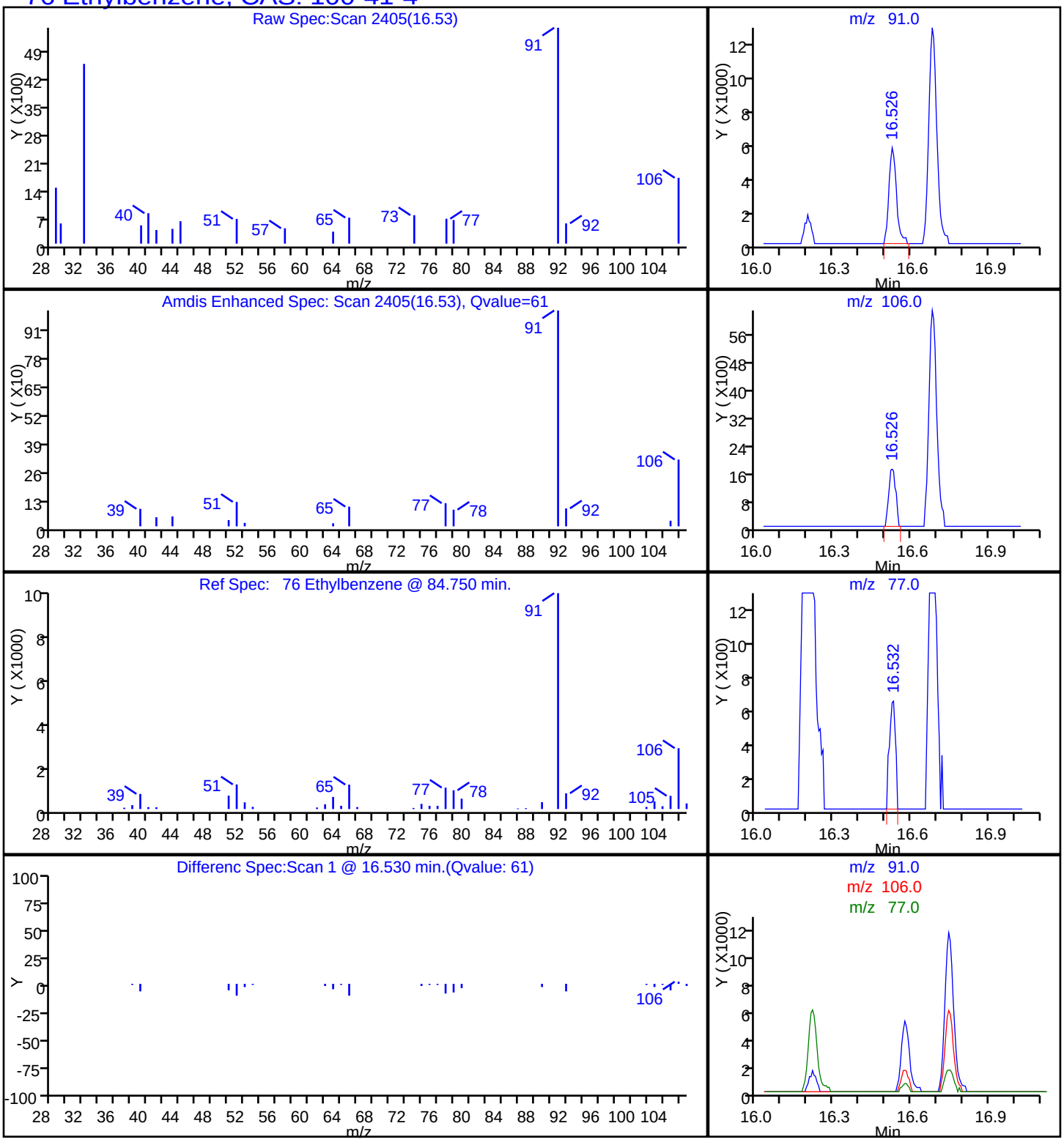
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

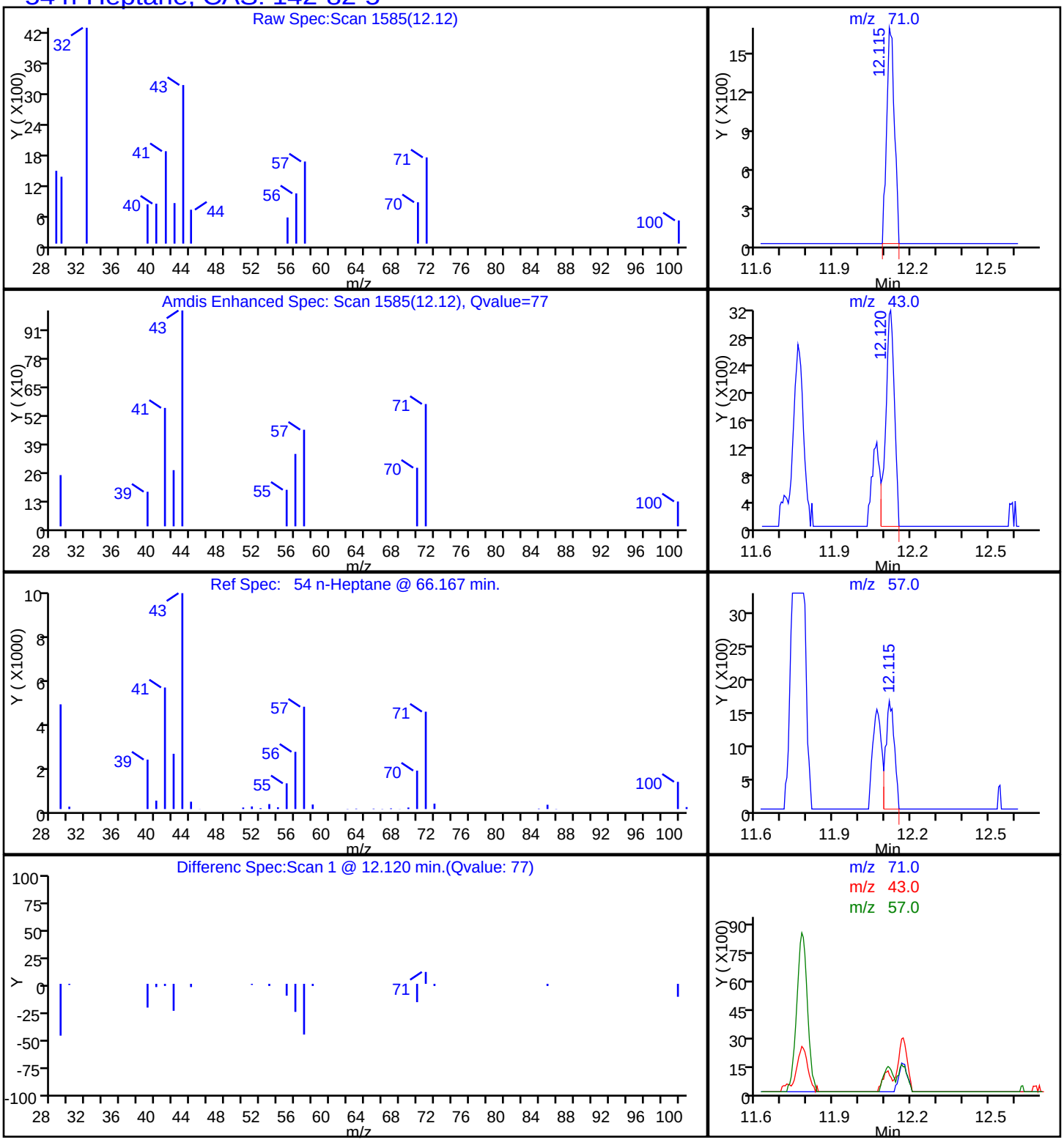
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

54 n-Heptane, CAS: 142-82-5



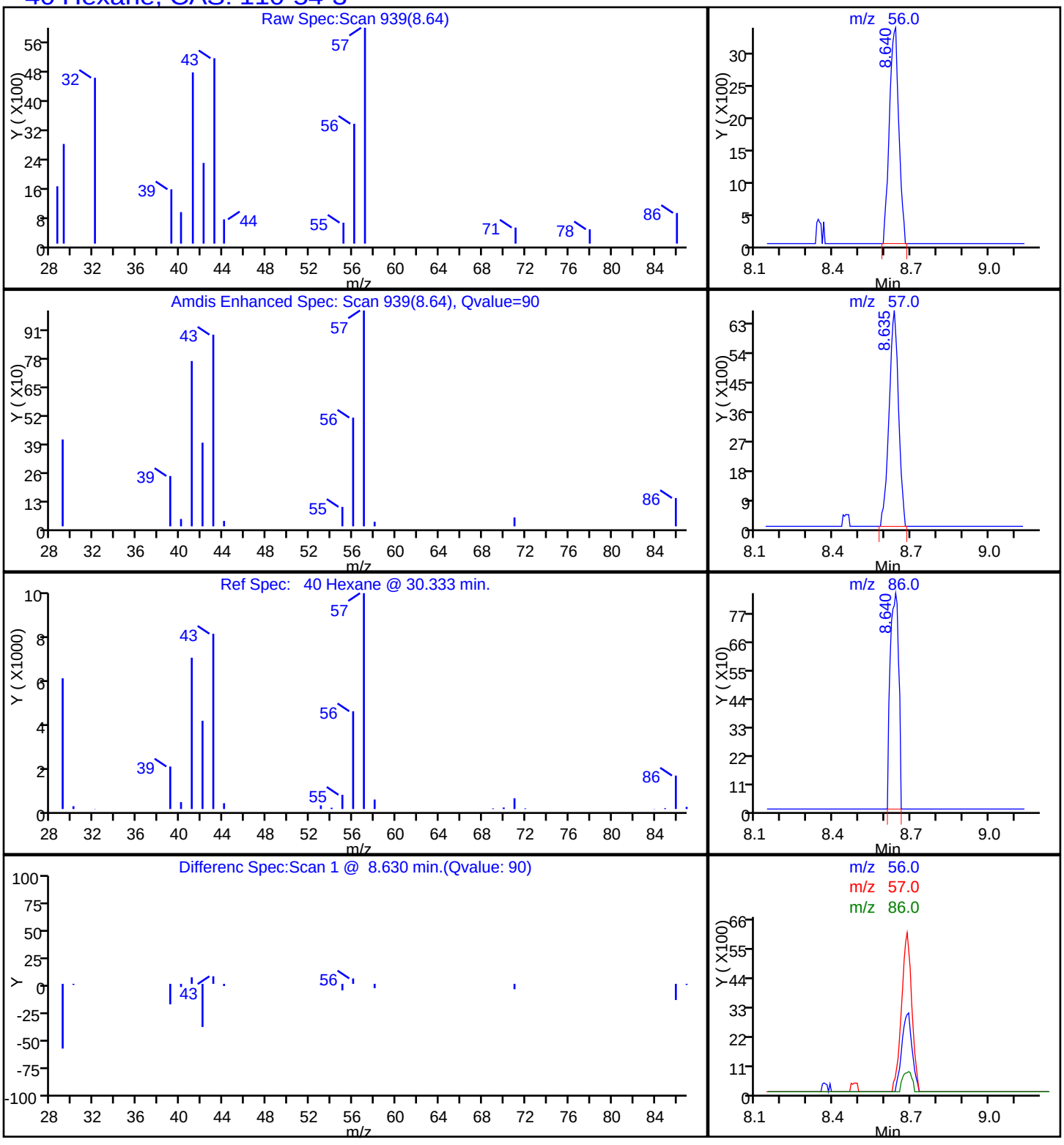
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

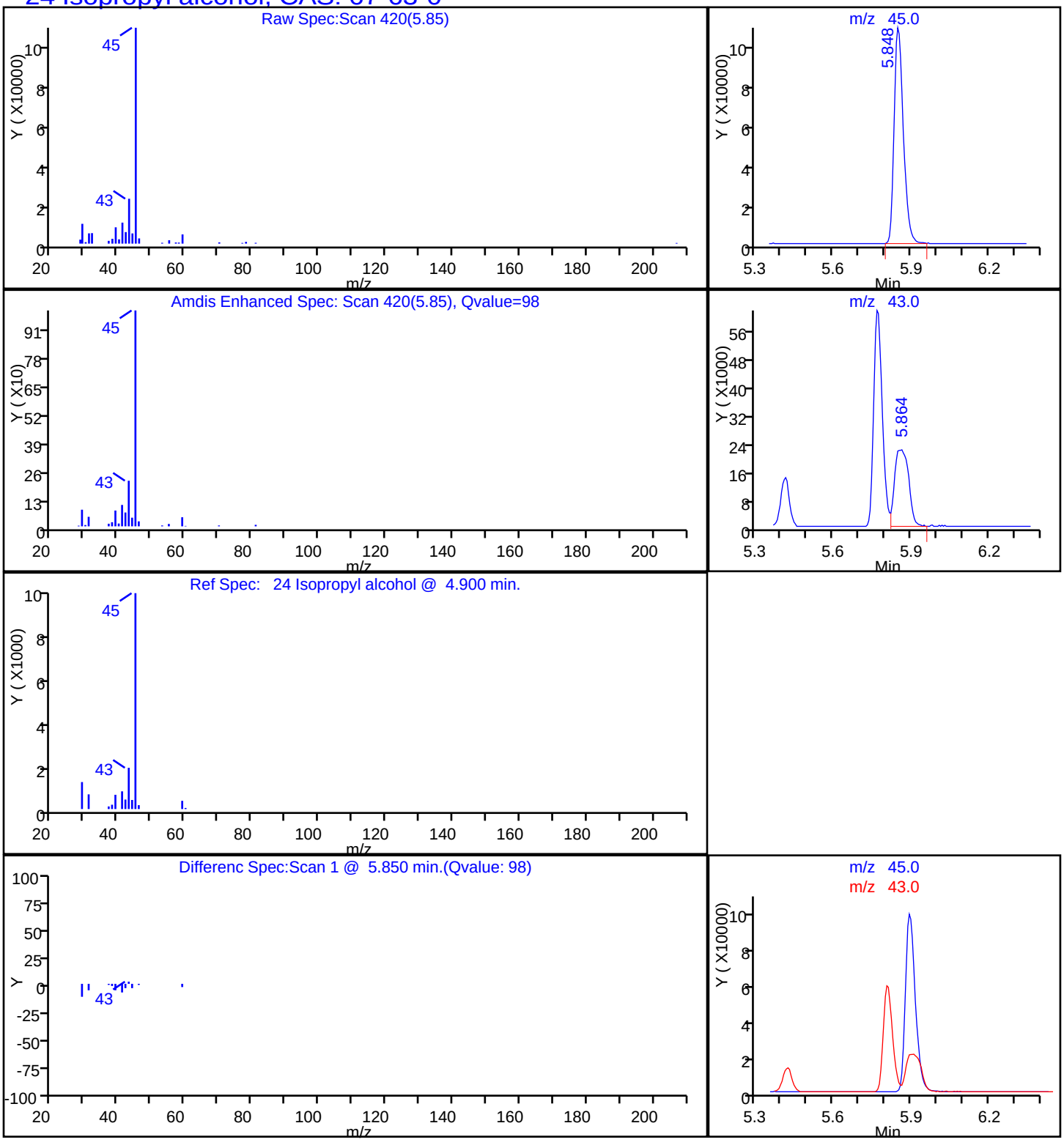


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

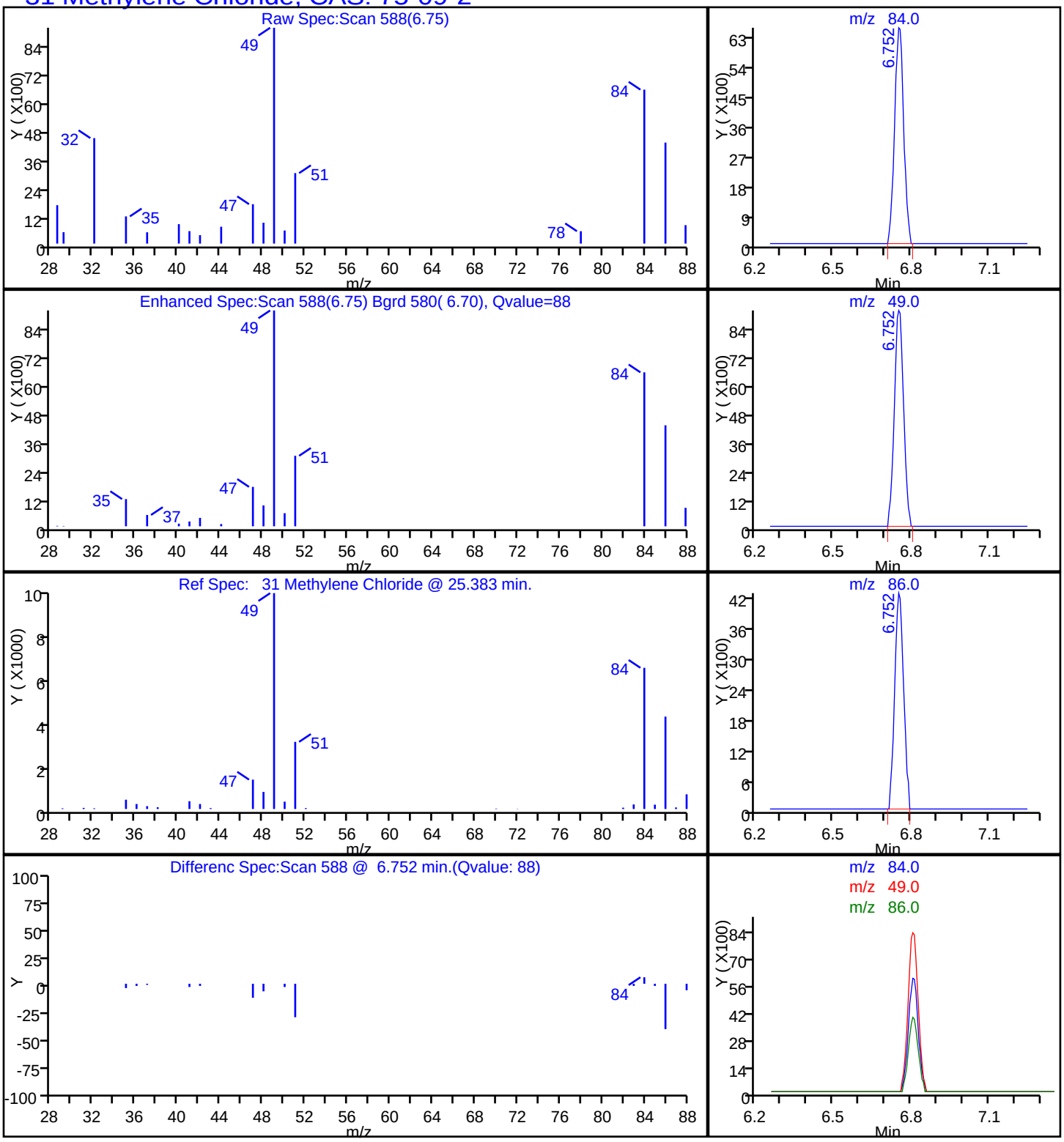


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

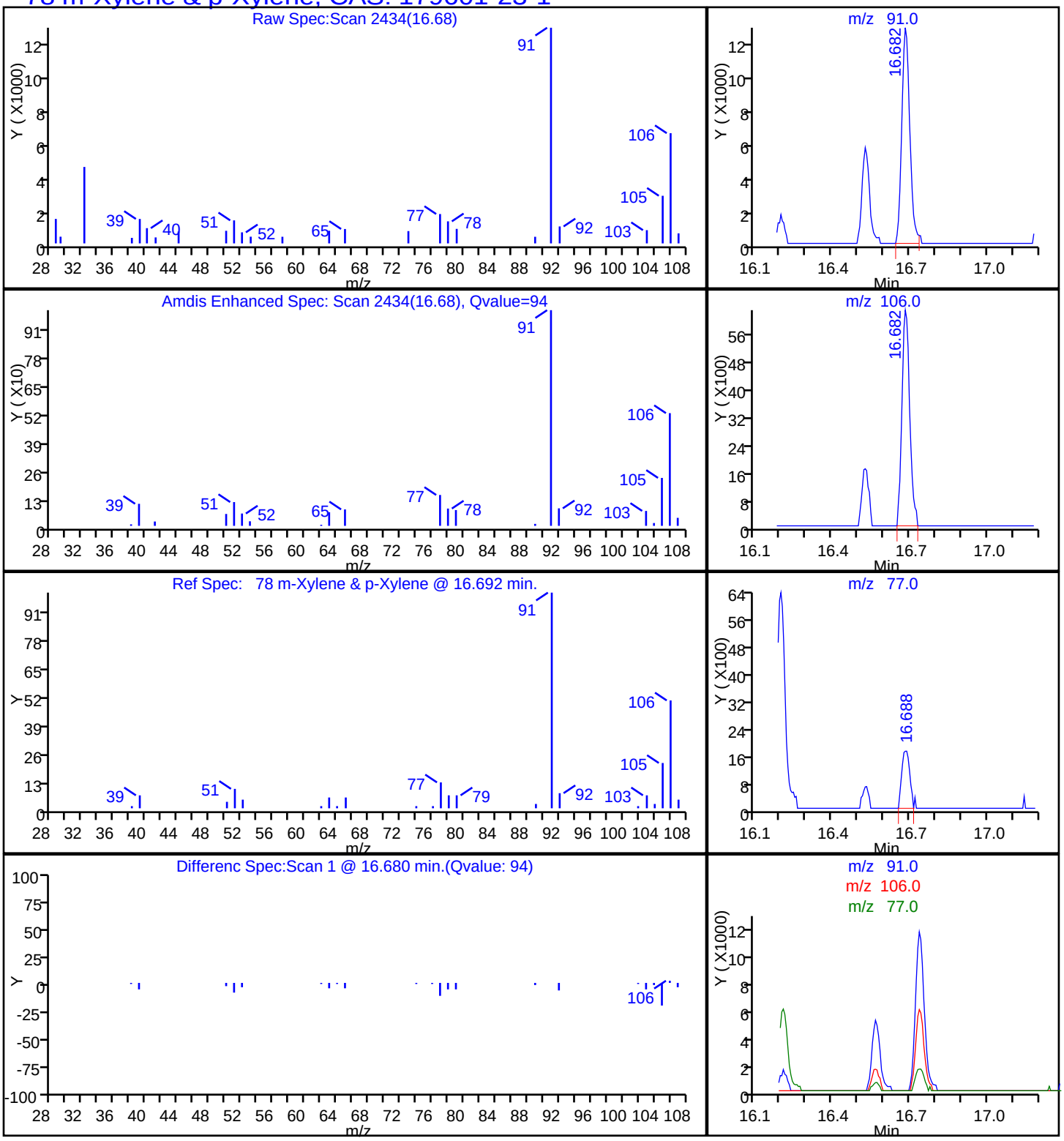


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



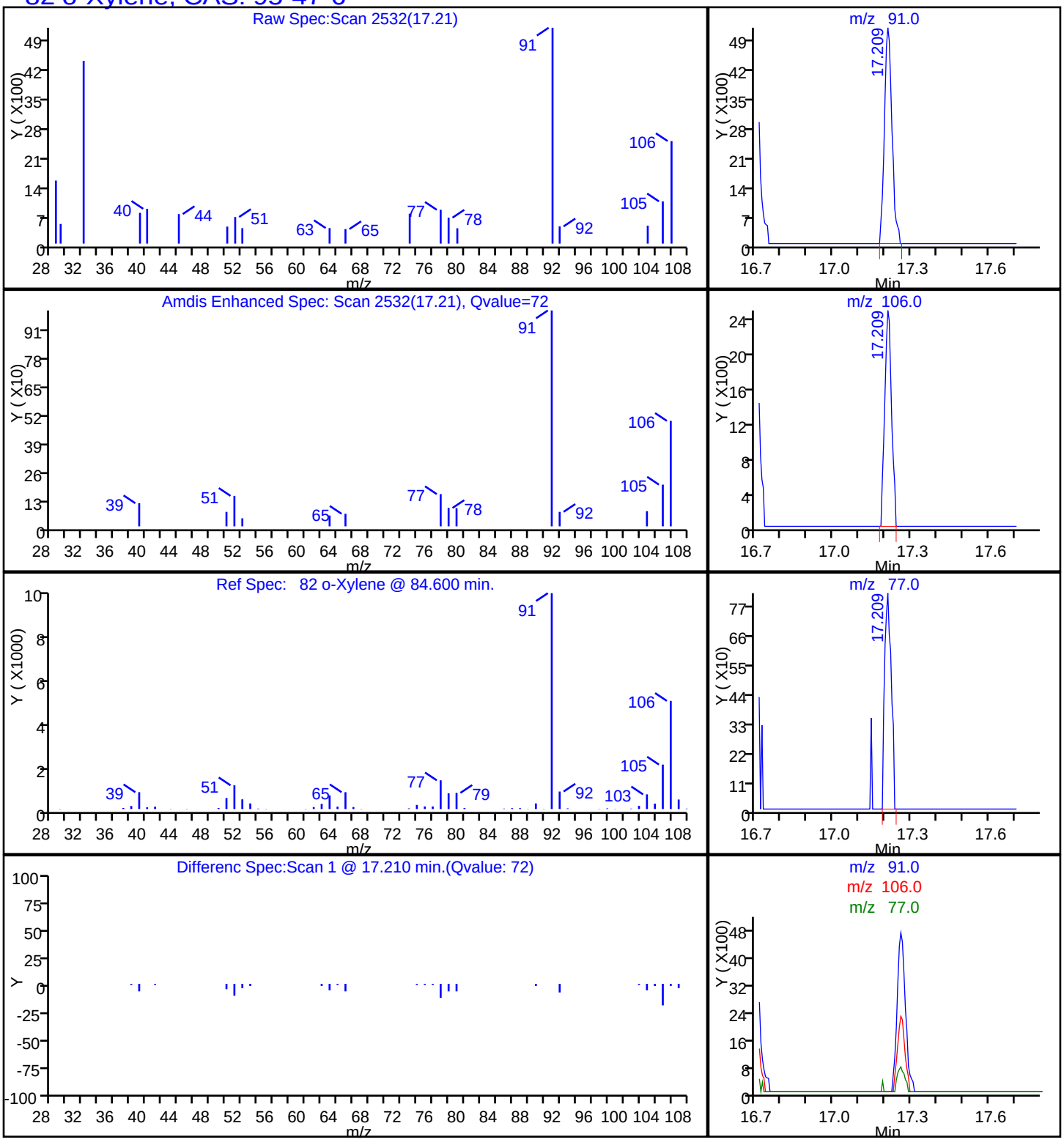
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



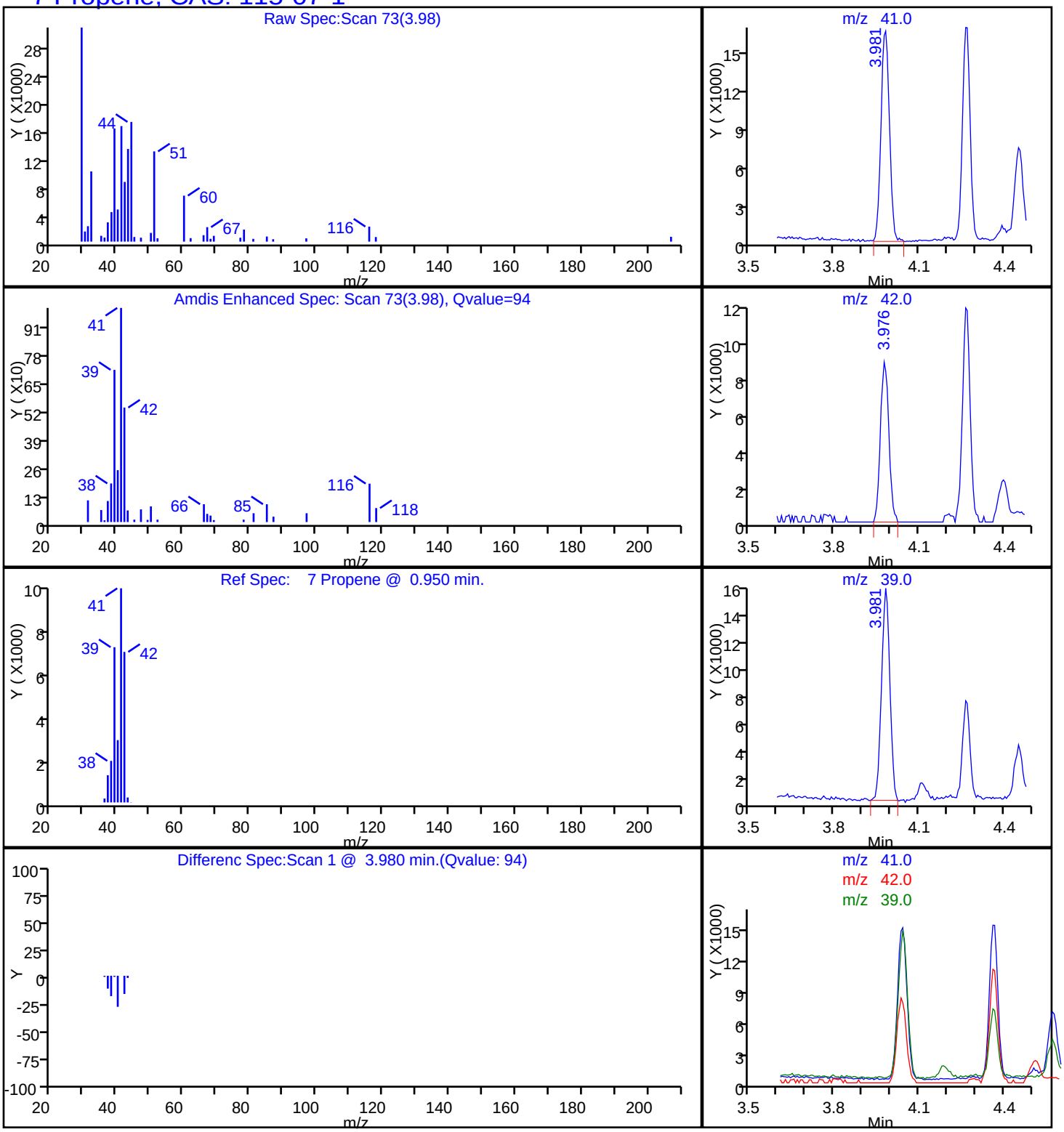
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4
Client ID:	IA7-E14		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4

Client ID: IA7-E14

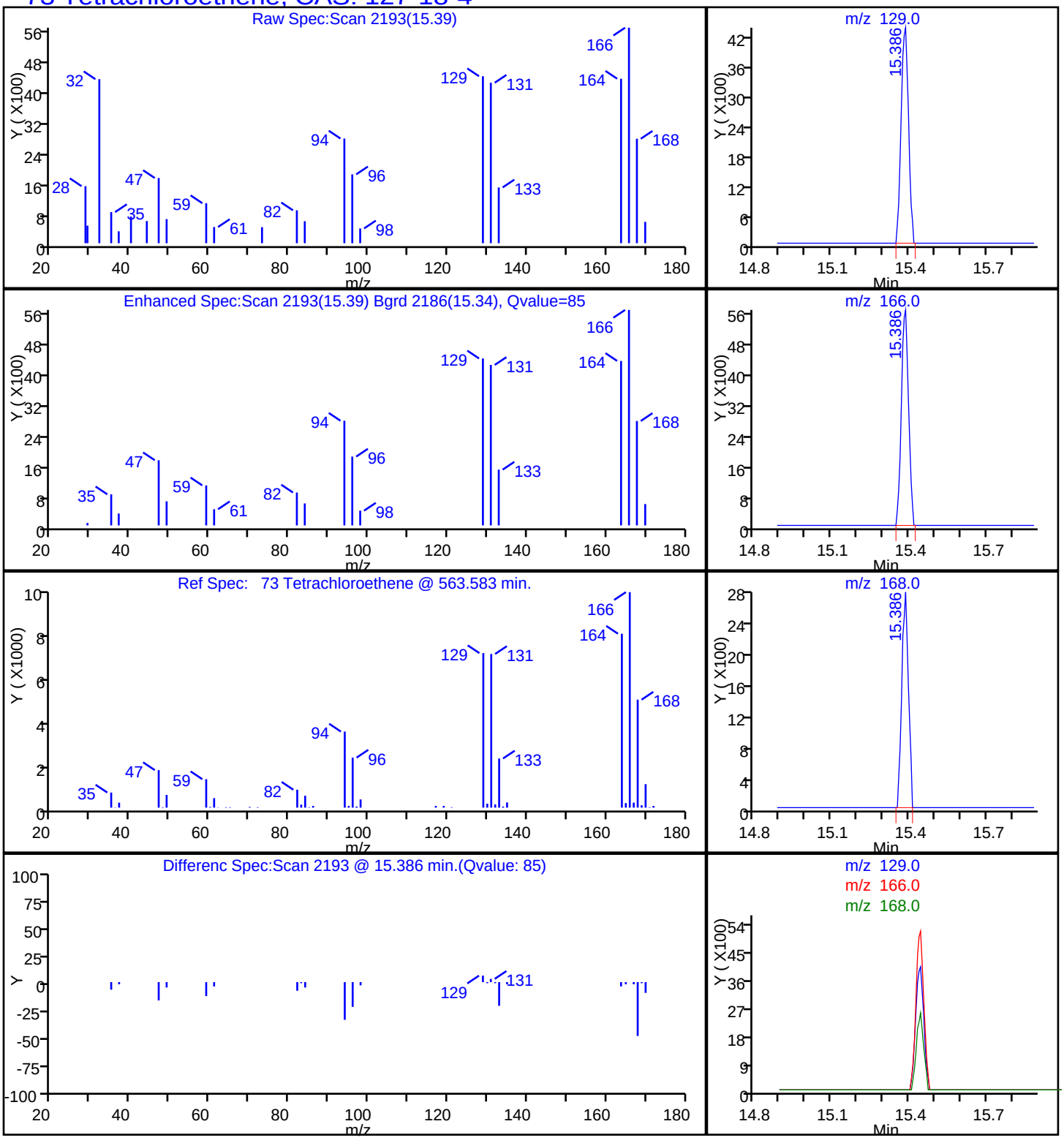
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



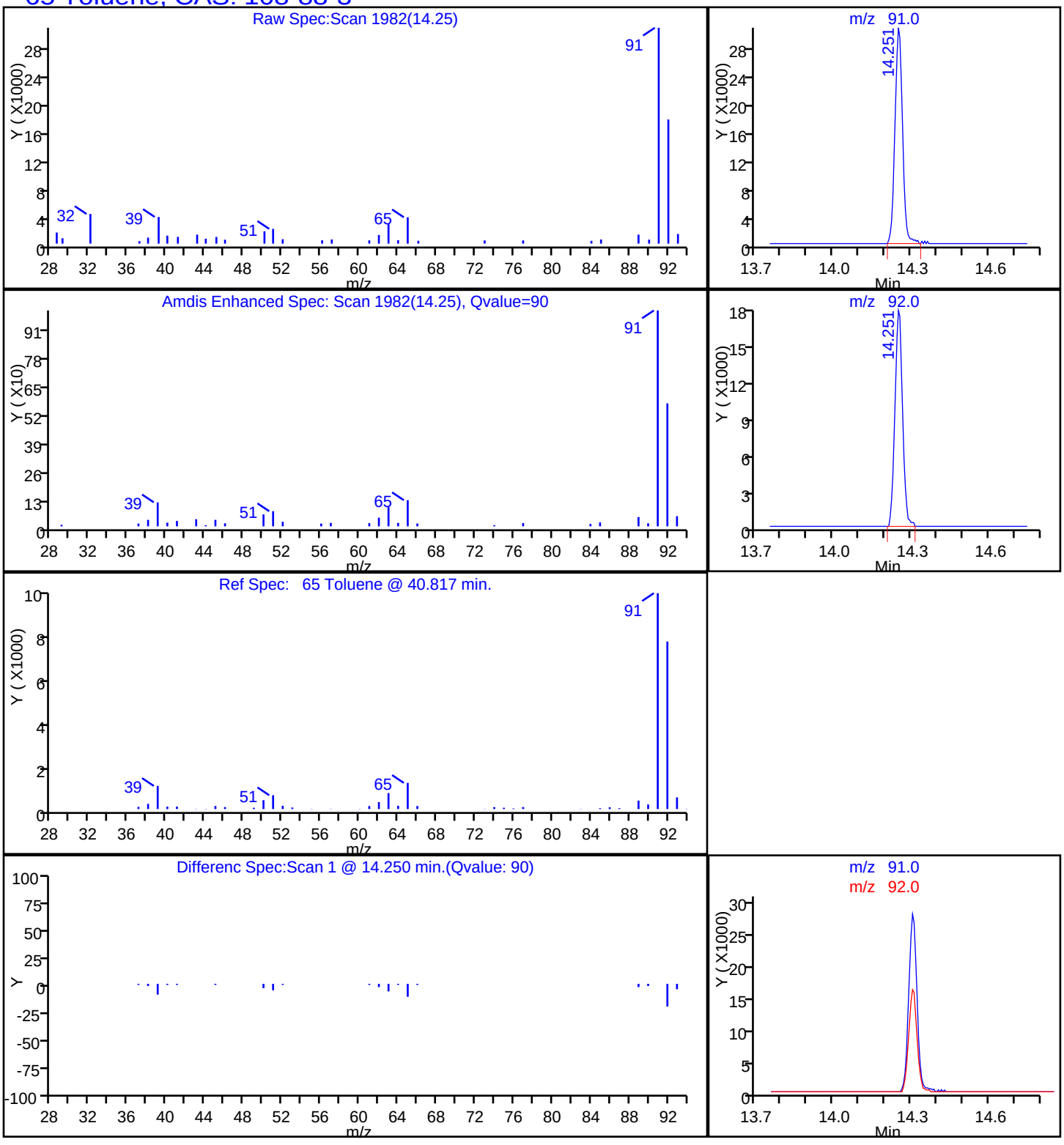
Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

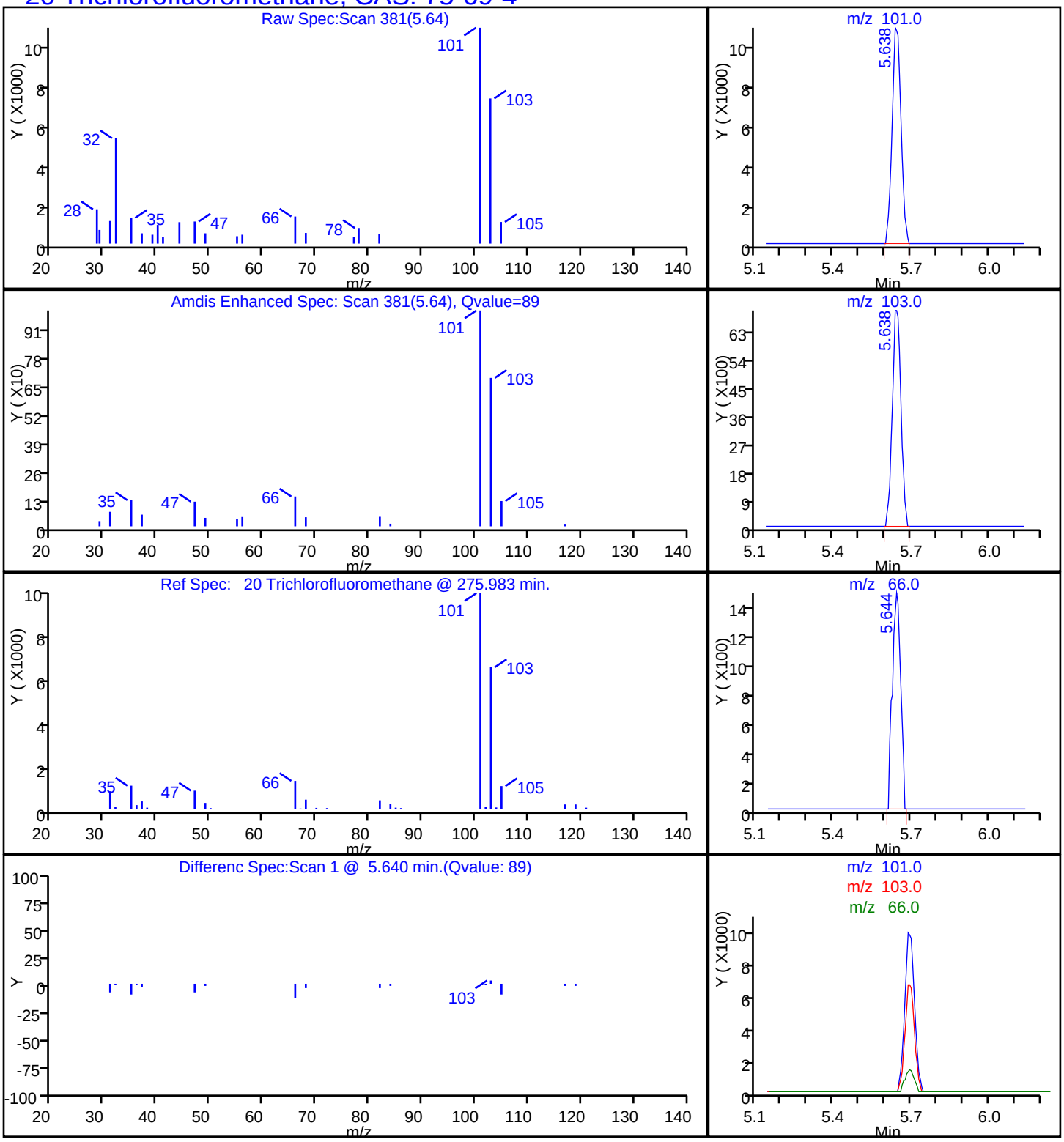


Report Date: 19-Mar-2014 13:00:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D				
Injection Date:	19-Mar-2014 01:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-4	Lab Sample ID:	140-1063-4		
Client ID:	IA7-E14				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.068	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.059	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	0.13	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.29	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.52		0.50	0.045
67-64-1	Acetone	58.08	6.0		5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	9.2		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.075	J	0.20	0.068
142-82-5	Heptane	100.21	0.055	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.99	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.087	J	0.20	0.061
115-07-1	Propene	42.08	0.79	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.33		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.39		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.33	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.28	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.3		2.9	0.59
591-78-6	2-Hexanone	100.20	0.52	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.85	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.1		2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.77		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	17		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.33	J	0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.49	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.95	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.96		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.38	J	0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.2		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5

Matrix: Air Lab File ID: JC18P208.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:48

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D
Lims ID: 140-1063-A-5 Lab Sample ID: 140-1063-5
Client ID: AMB-2
Sample Type: Client
Inject. Date: 19-Mar-2014 02:25:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-5
Misc. Info.: J031814,TO15,,140-0000527-014
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 12:59:23 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 12:59:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	356136	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1701568	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1362505	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	870106	3.61	
7 Propene	41	3.975	3.971	0.004	96	34568	0.3165	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	100	61359	0.1739	
9 Chloromethane	52	4.228	4.229	-0.001	98	8272	0.2064	
17 Ethanol	31	5.116	5.116	0.0	94	104848	3.67	
19 2-Methylbutane	43	5.412	5.407	0.005	88	17432	0.1152	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	24549	0.0792	
23 Acetone	58	5.767	5.767	0.0	92	122182	2.41	
24 Isopropyl alcohol	45	5.858	5.848	0.010	74	53172	0.3978	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.580	-0.006	64	5771	0.0269	
31 Methylene Chloride	84	6.751	6.757	-0.006	87	10409	0.1093	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	99	15281	0.4533	
40 Hexane	56	8.639	8.635	0.004	77	5378	0.0562	
48 Benzene	78	11.022	11.023	-0.001	89	28083	0.0962	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	86	6889	0.0286	
53 Isooctane	57	11.765	11.760	0.005	51	11790	0.0237	
54 n-Heptane	71	12.120	12.120	0.0	56	2261	0.0219	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	94	37327	0.2093	
65 Toluene	91	14.250	14.256	-0.006	91	39484	0.1562	
69 2-Hexanone	58	14.691	14.681	0.010	72	4226	0.0510	
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	15399	0.1308	
76 Ethylbenzene	91	16.526	16.532	-0.006	43	8390	0.0301	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	91	19853	0.0881	
82 o-Xylene	91	17.214	17.215	-0.001	67	7965	0.0349	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	44	7165	0.0271	

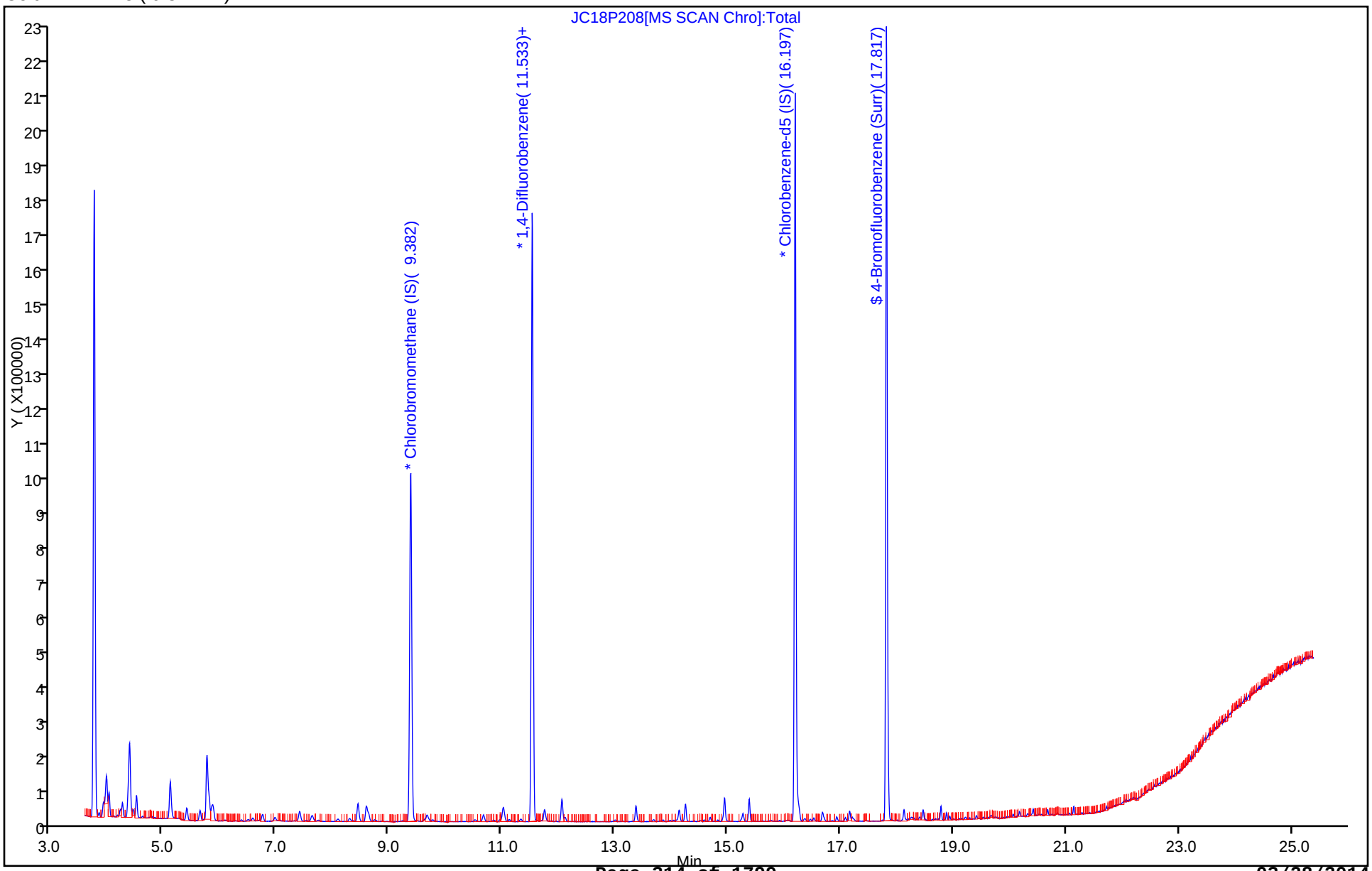
Report Date: 19-Mar-2014 12:59:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

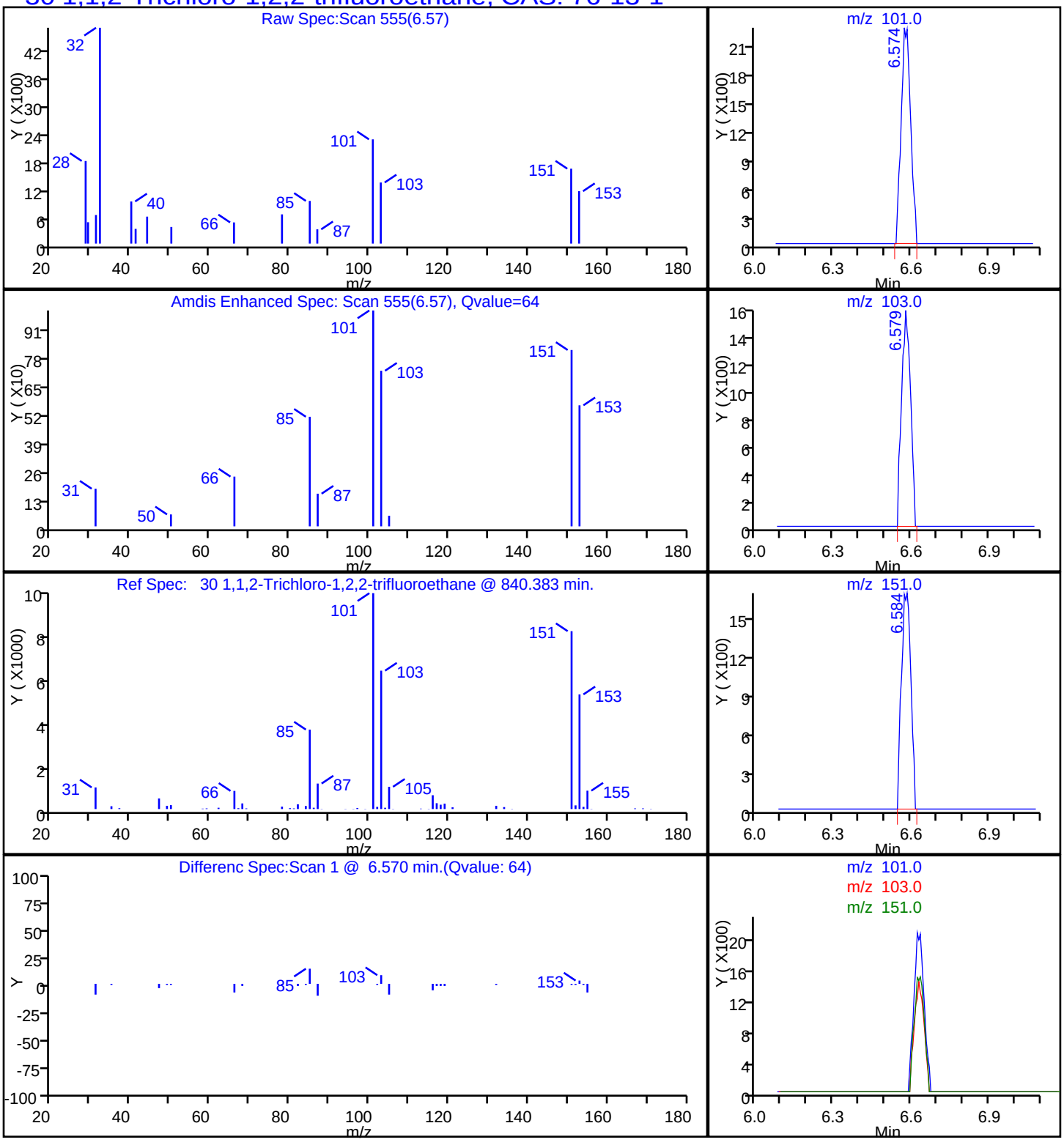
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5	Worklist Smp#:	14
Client ID:	AMB-2				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D				
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



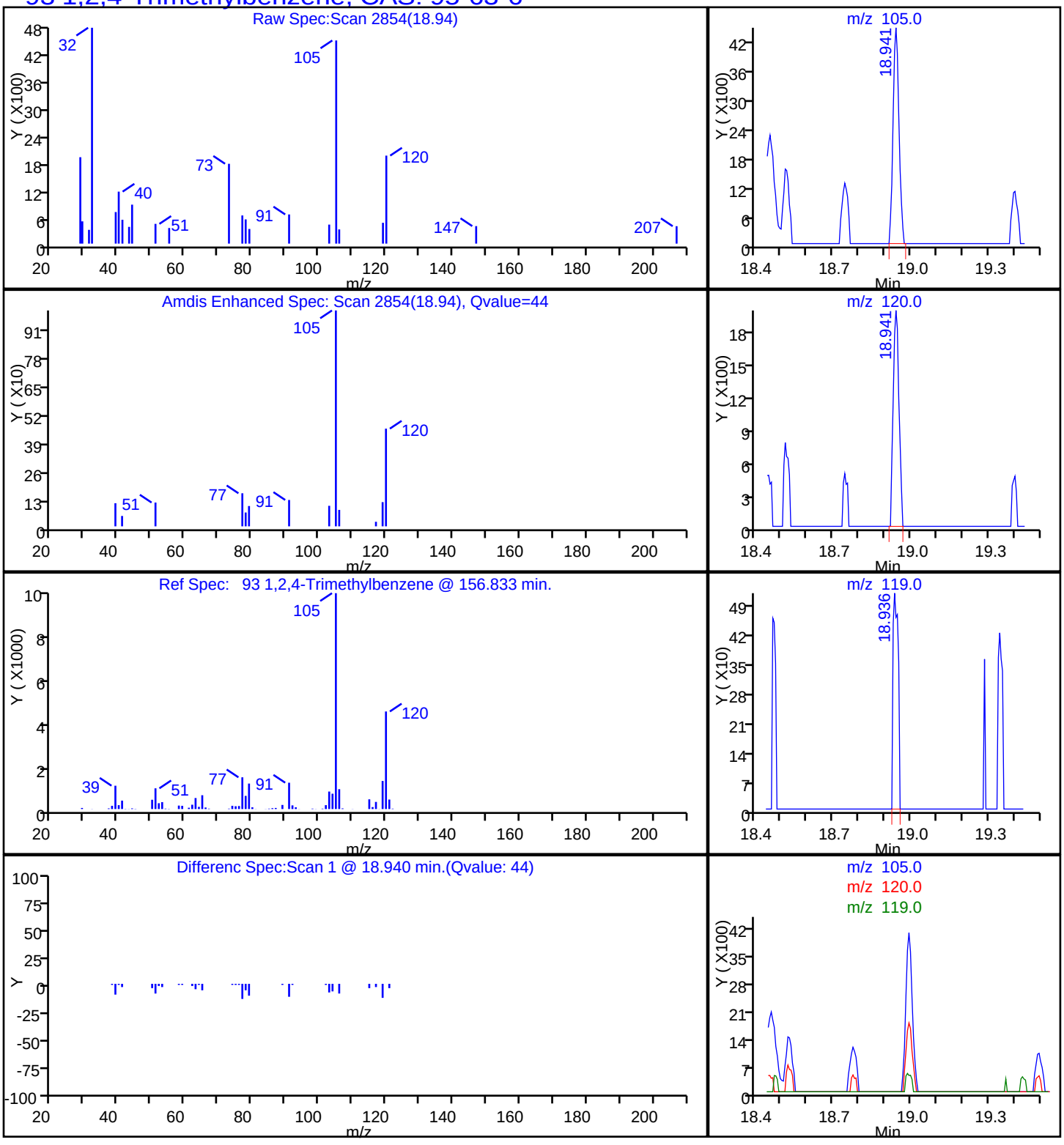
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

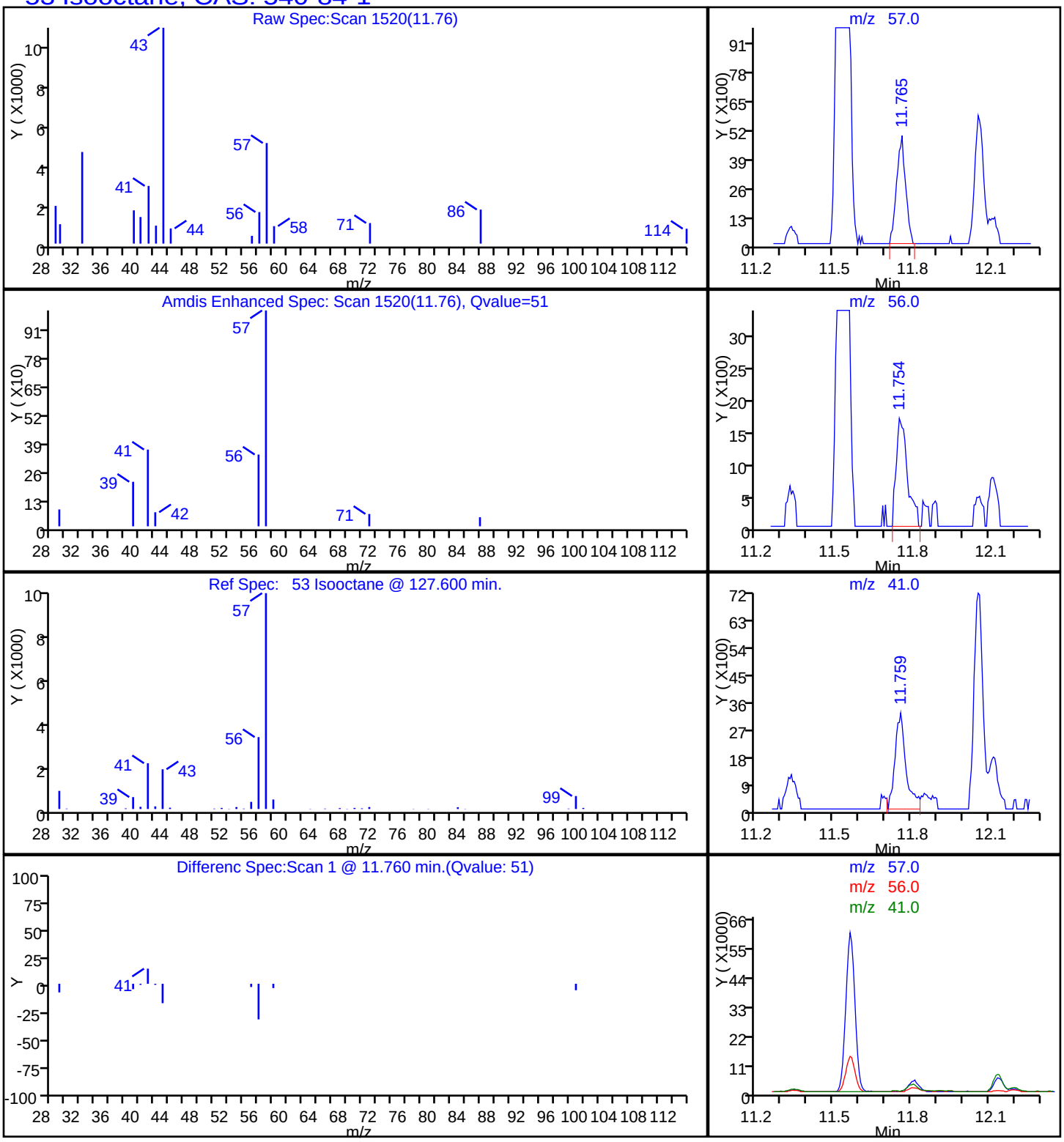


Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D				
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



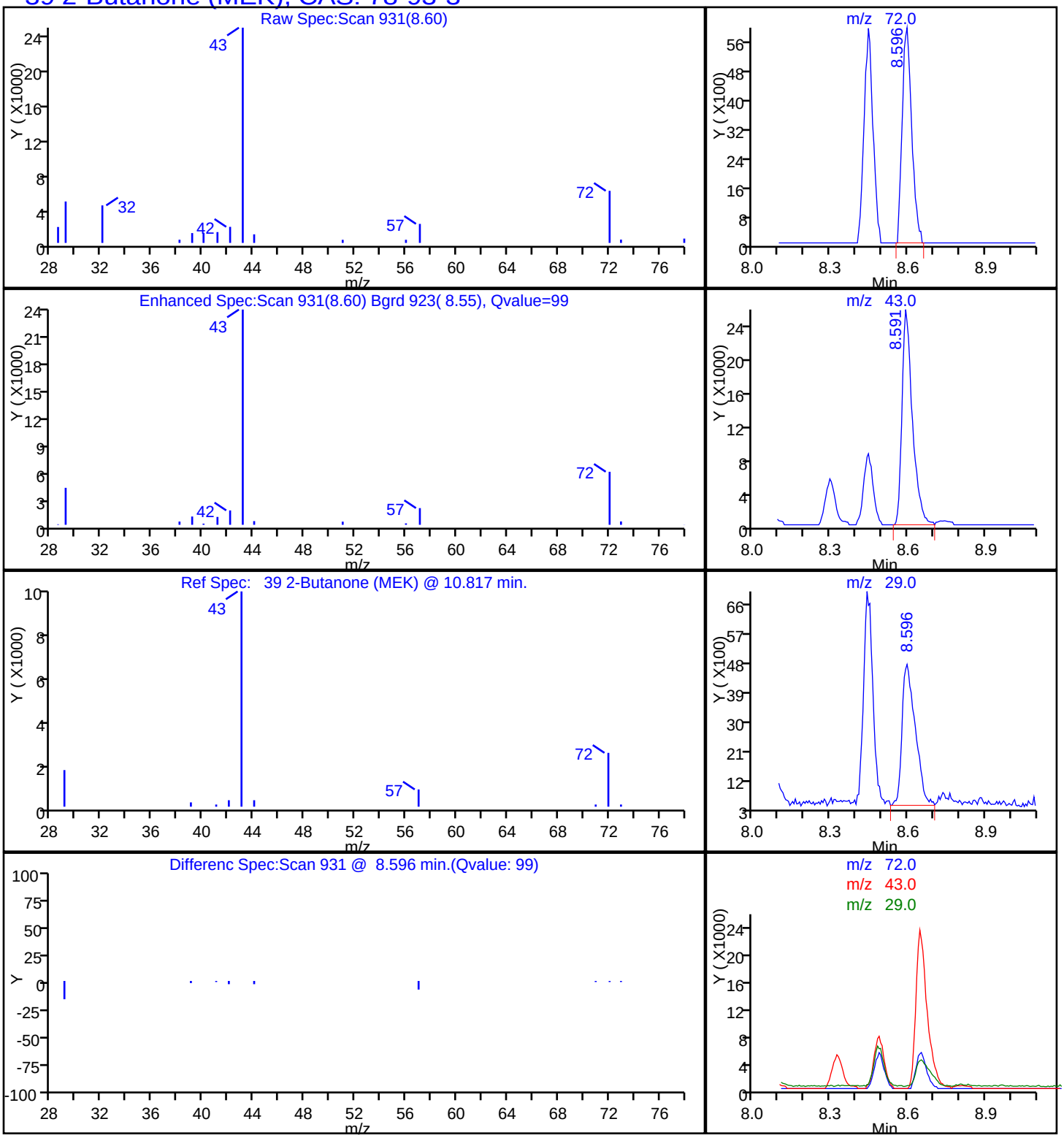
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



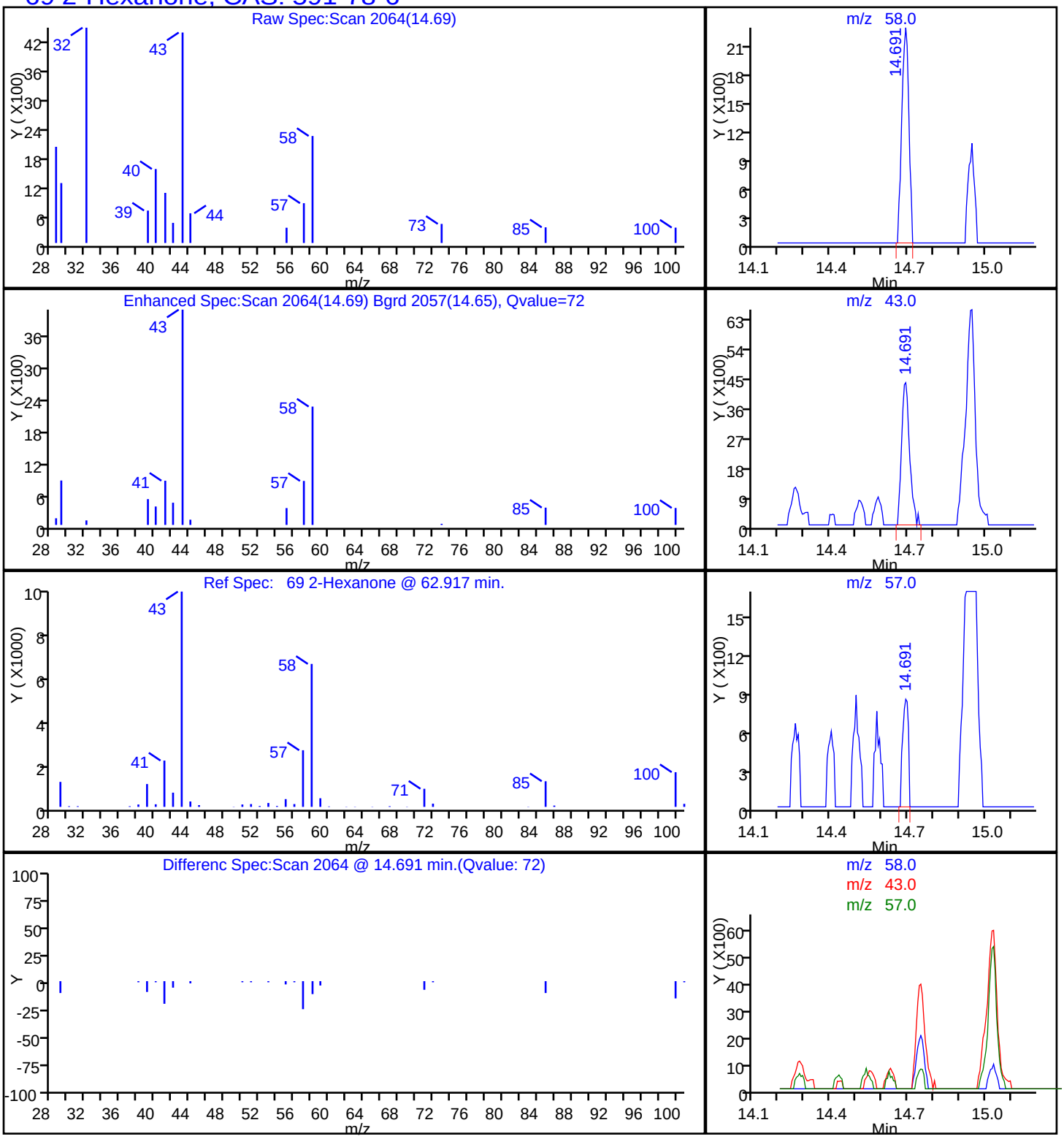
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

69 2-Hexanone, CAS: 591-78-6



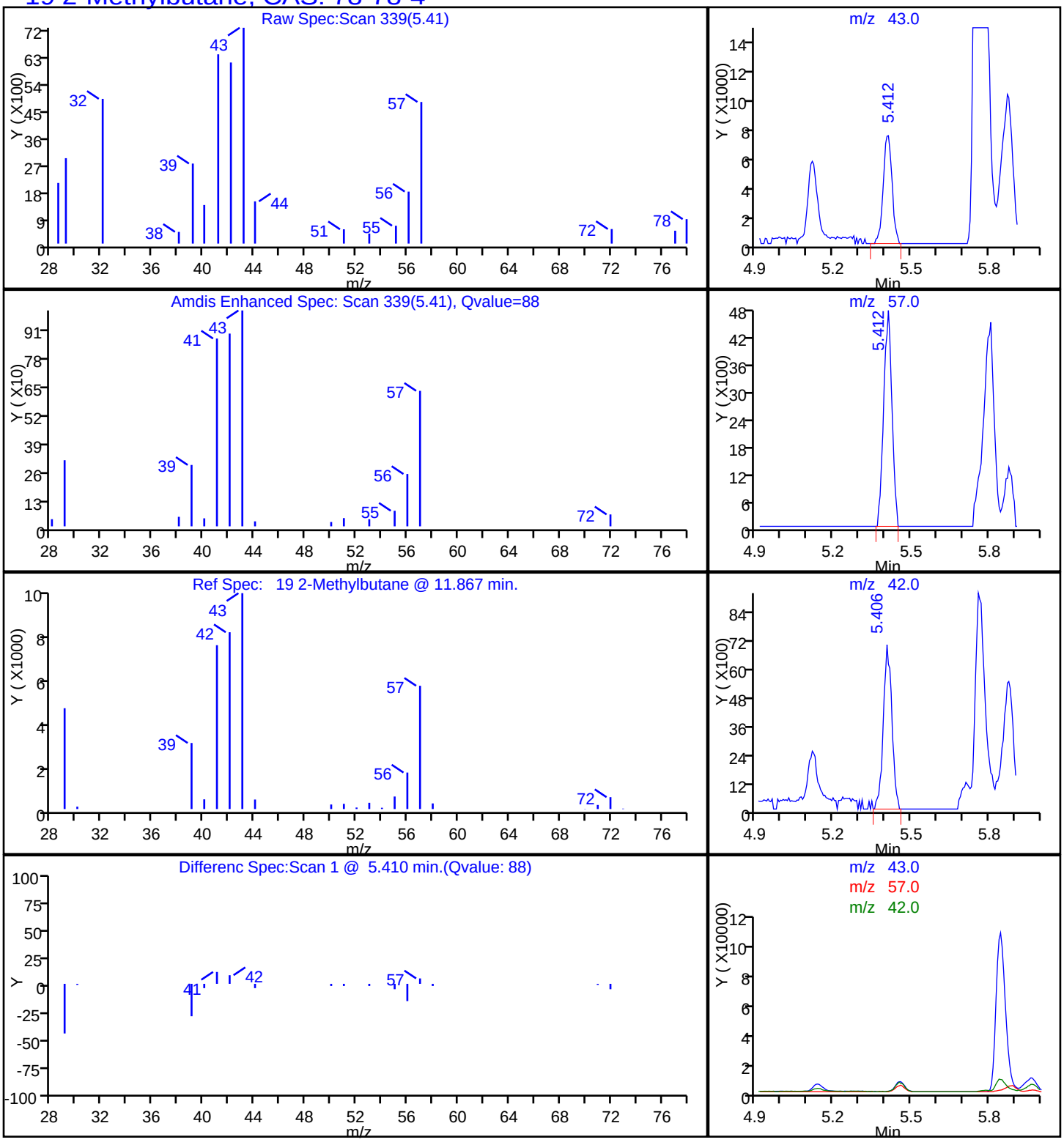
Report Date: 19-Mar-2014 12:59:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-5 Lab Sample ID: 140-1063-5

Client ID: AMB-2

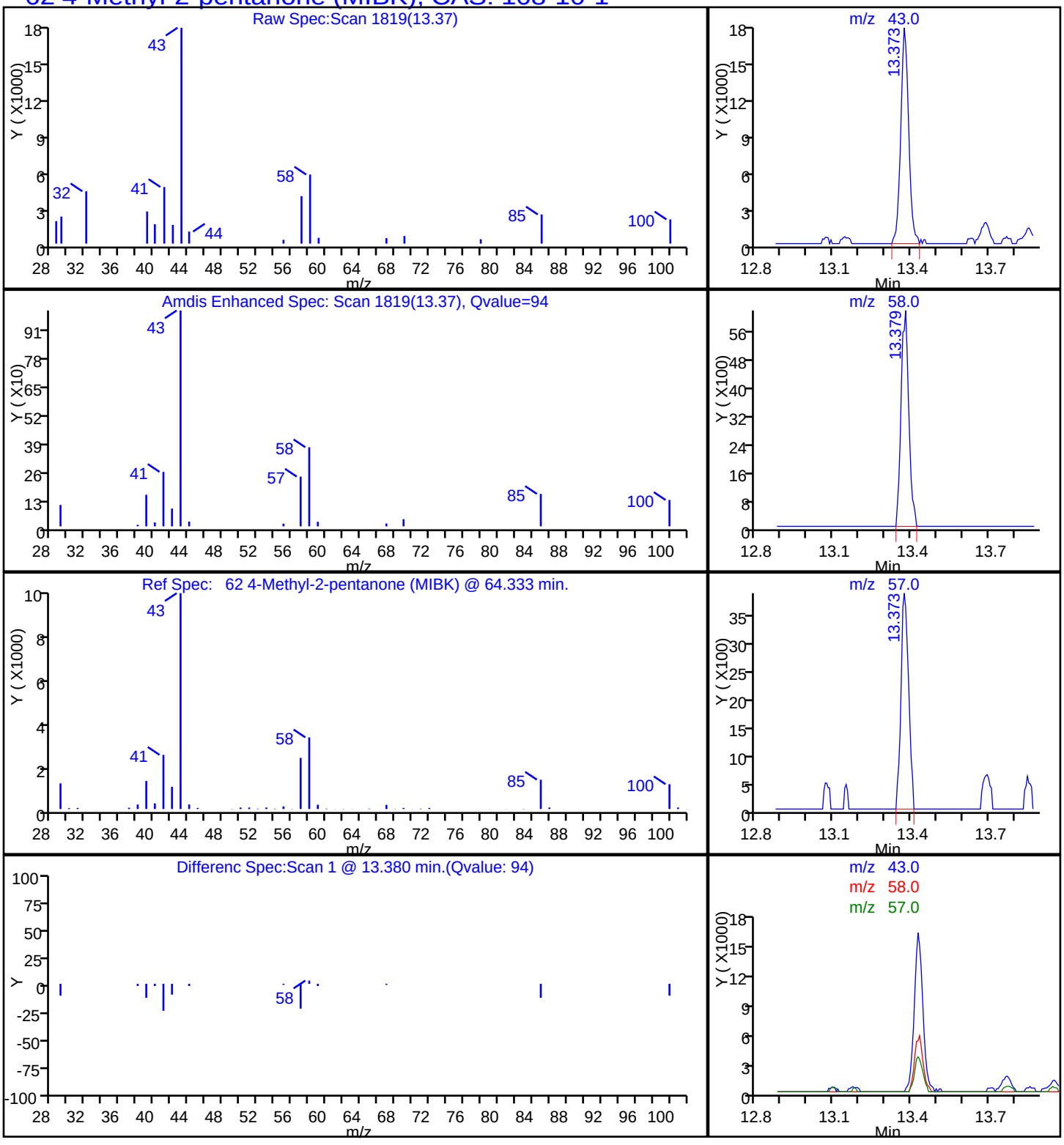
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



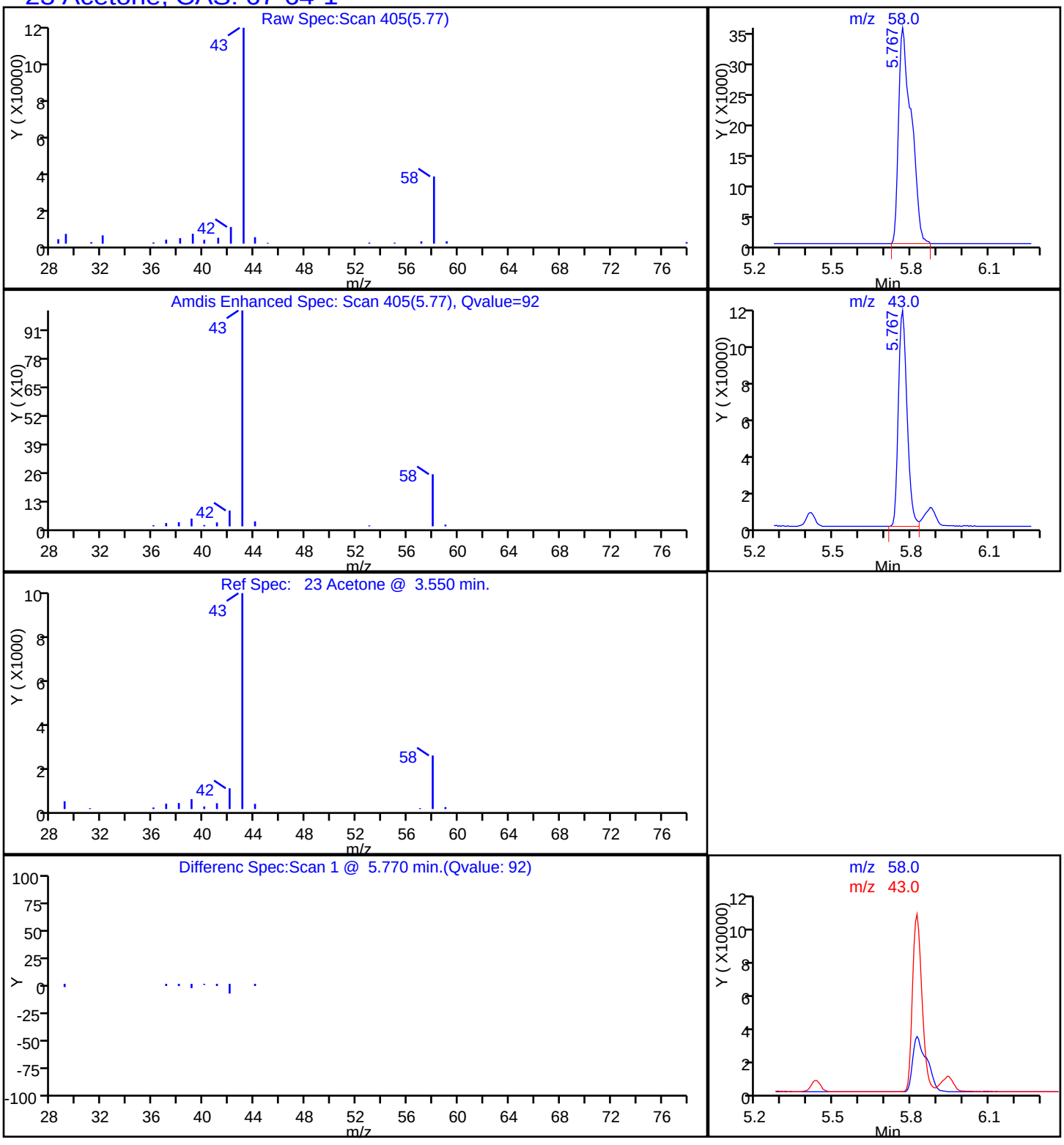
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

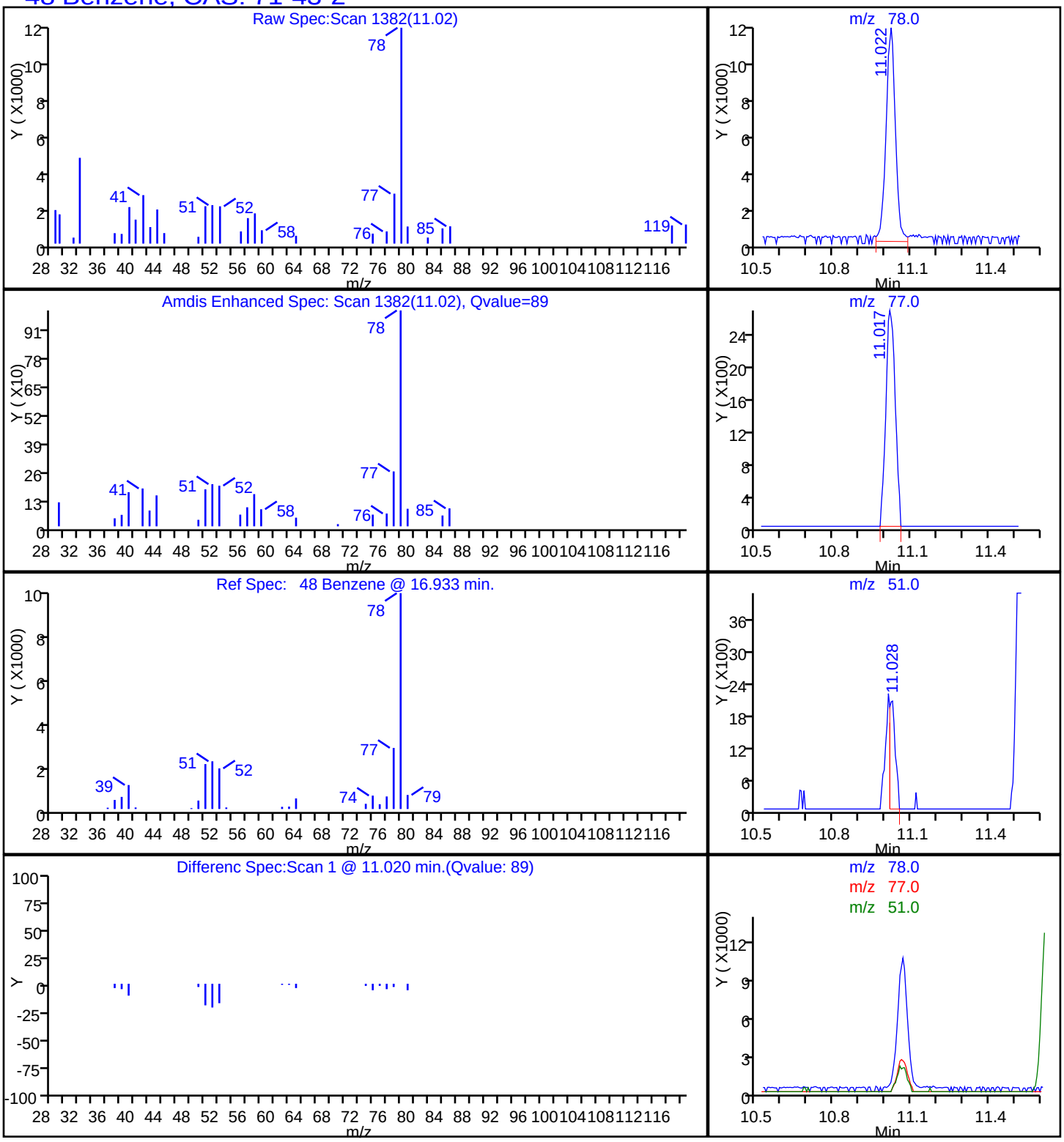


Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D				
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



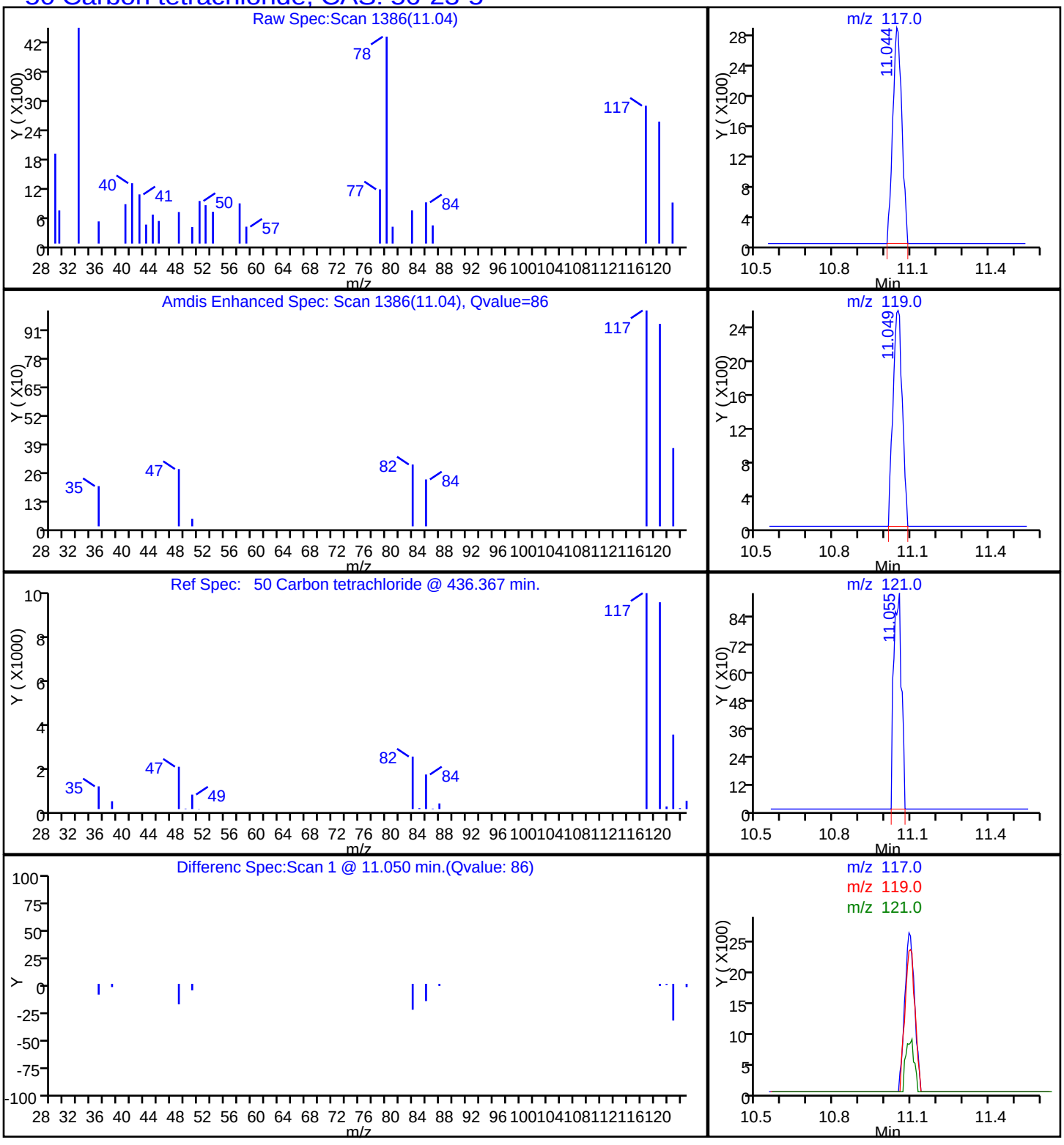
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

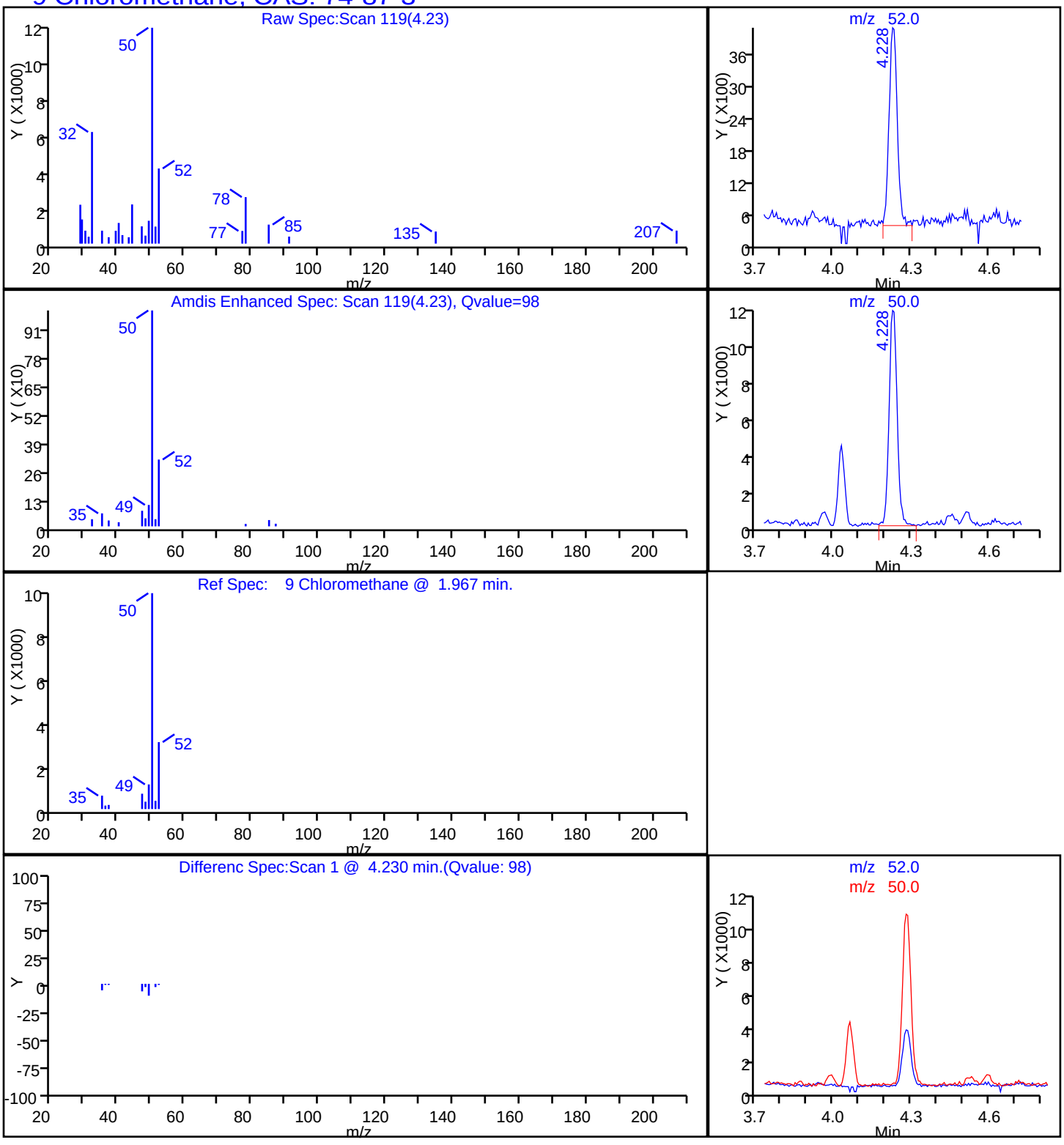
50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D				
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



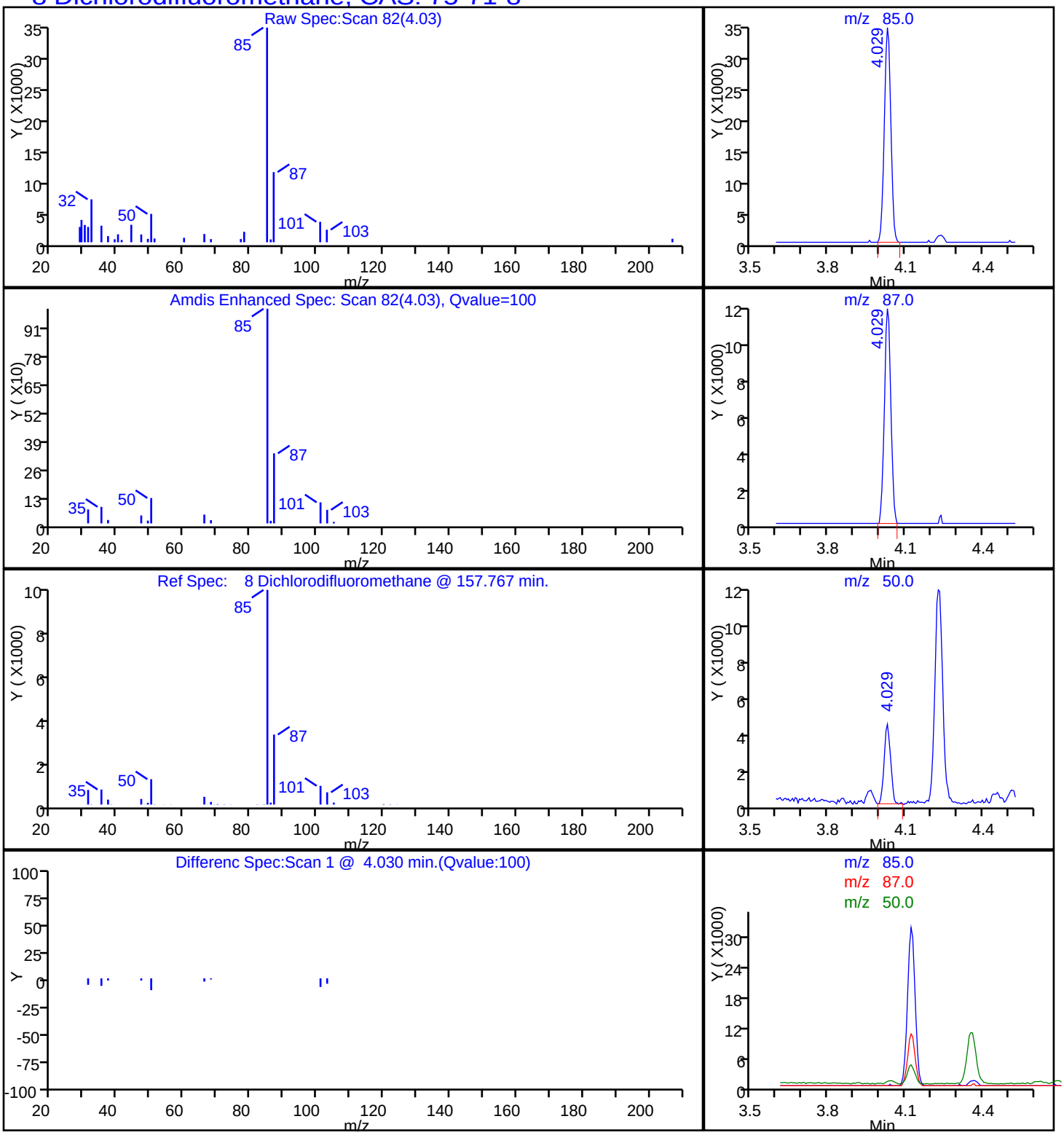
Report Date: 19-Mar-2014 12:59:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



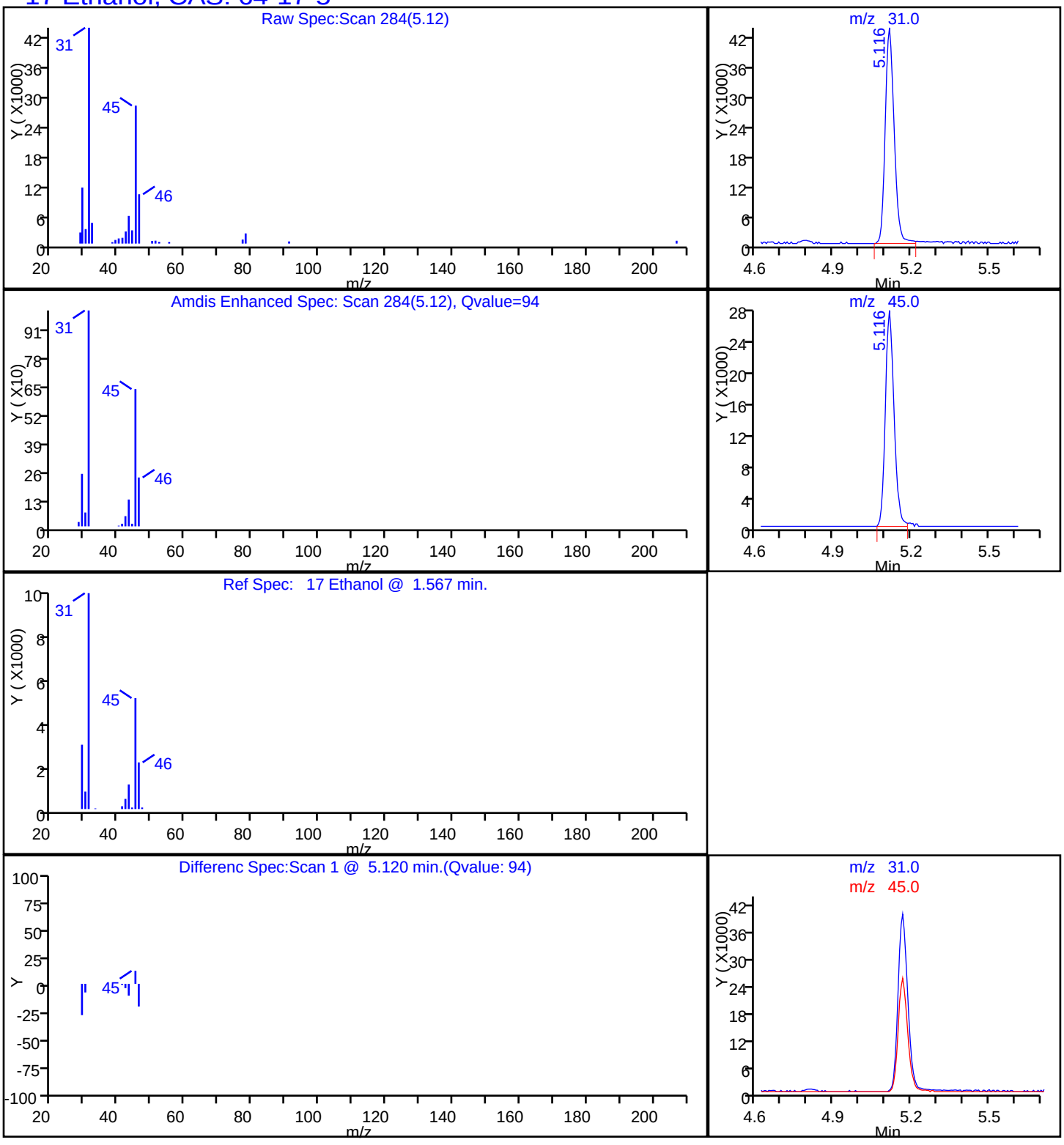
Report Date: 19-Mar-2014 12:59:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5
Client ID:	AMB-2		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



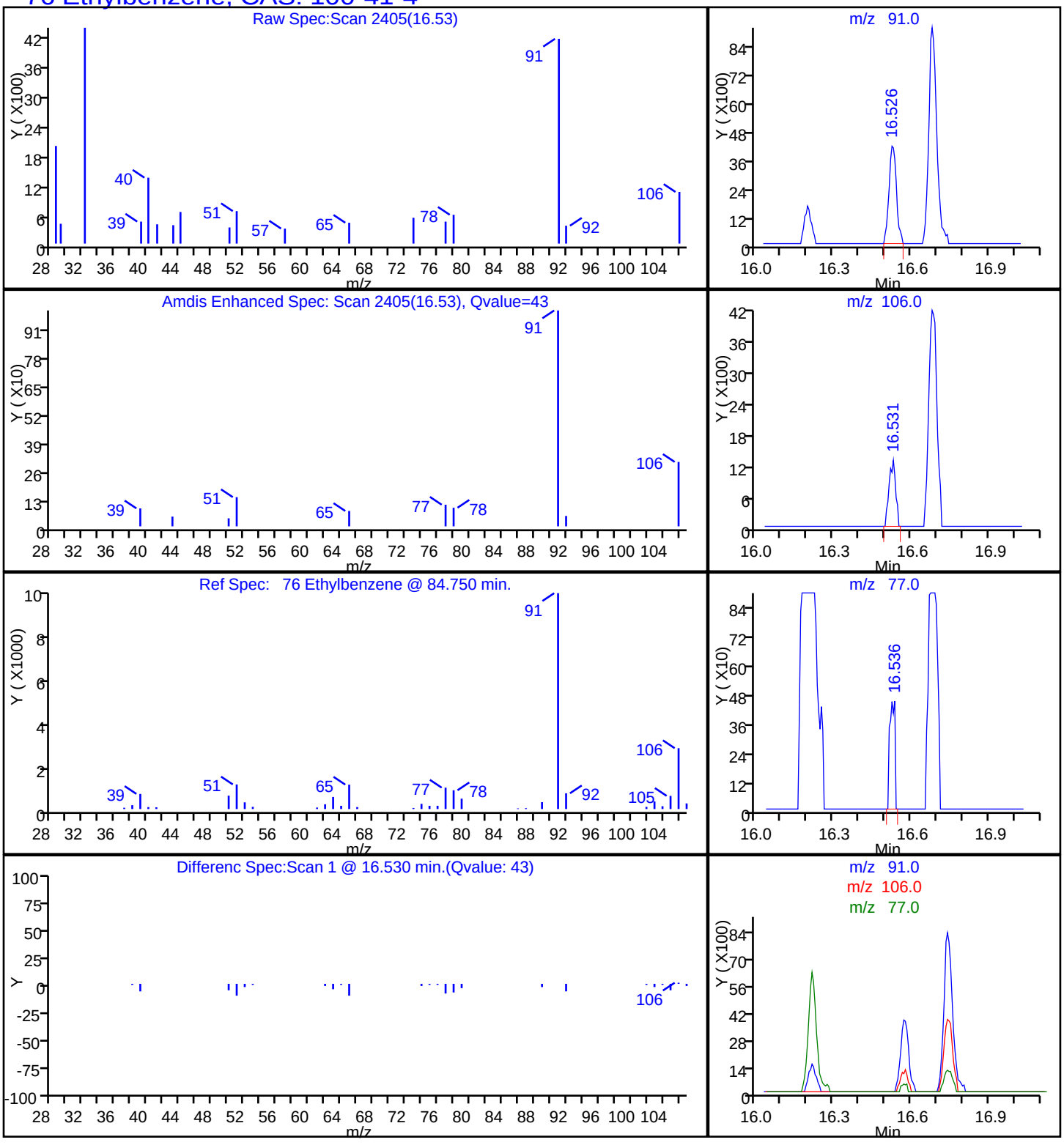
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



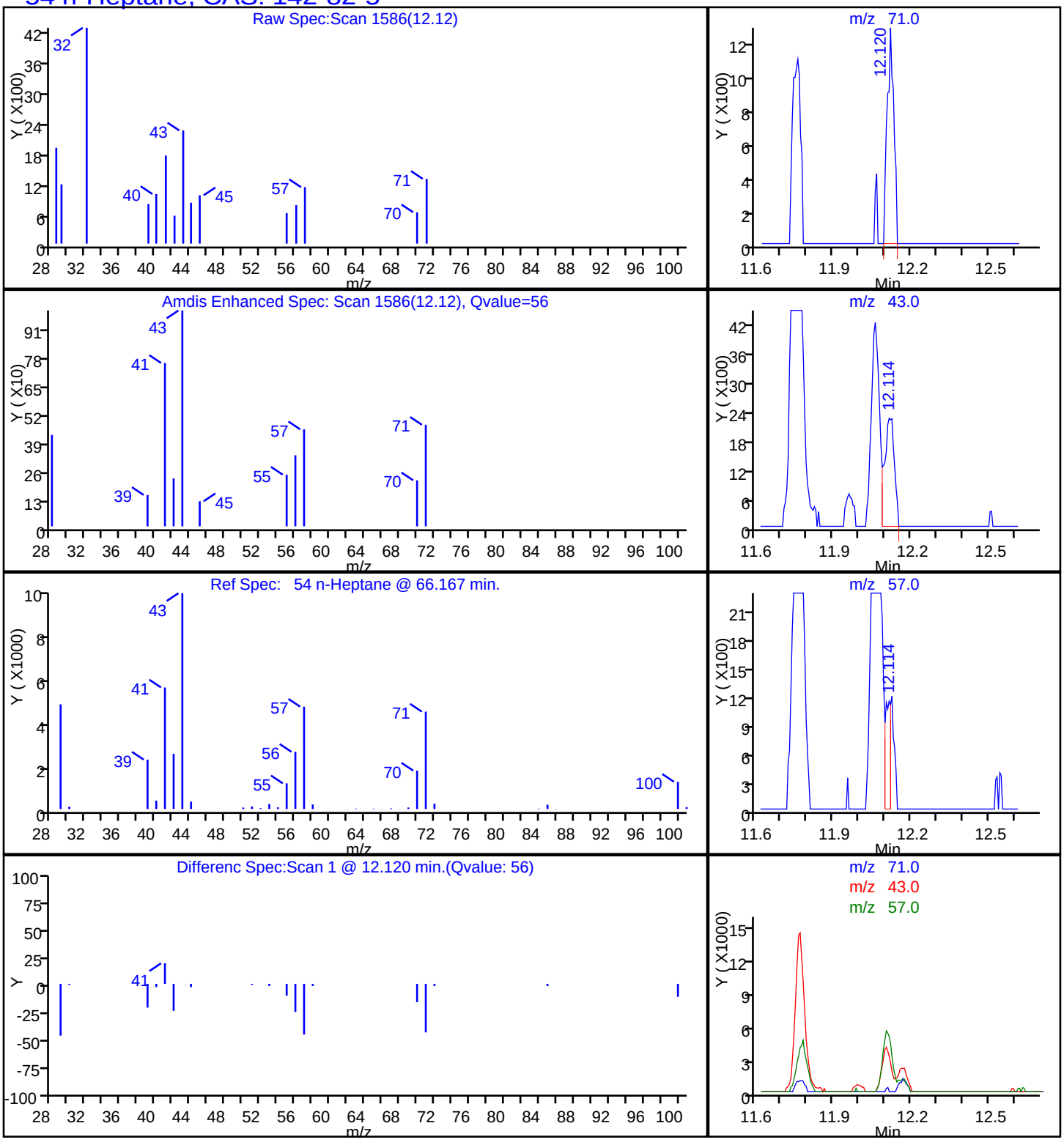
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5
Client ID:	AMB-2		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



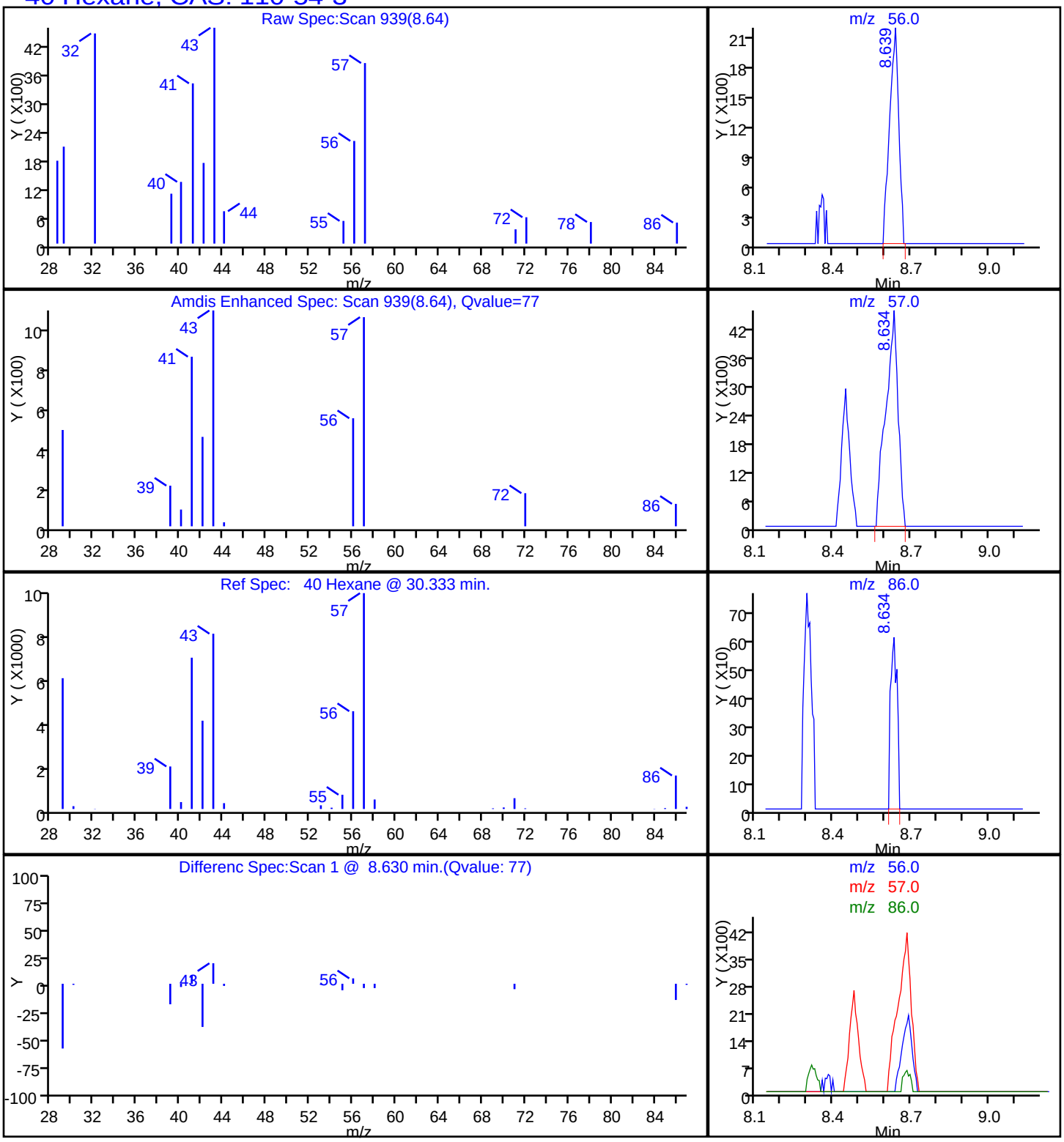
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



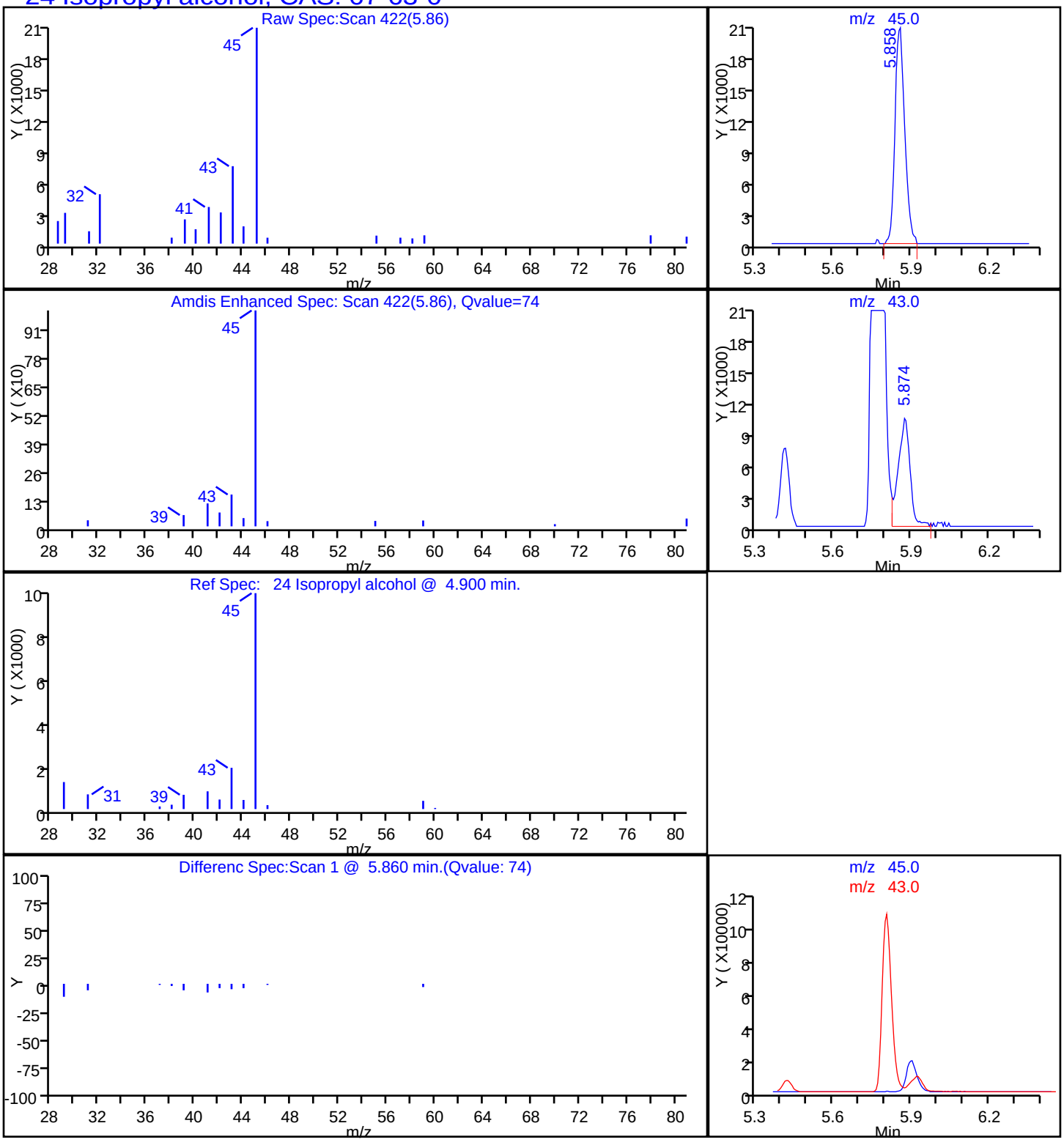
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5
Client ID:	AMB-2		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



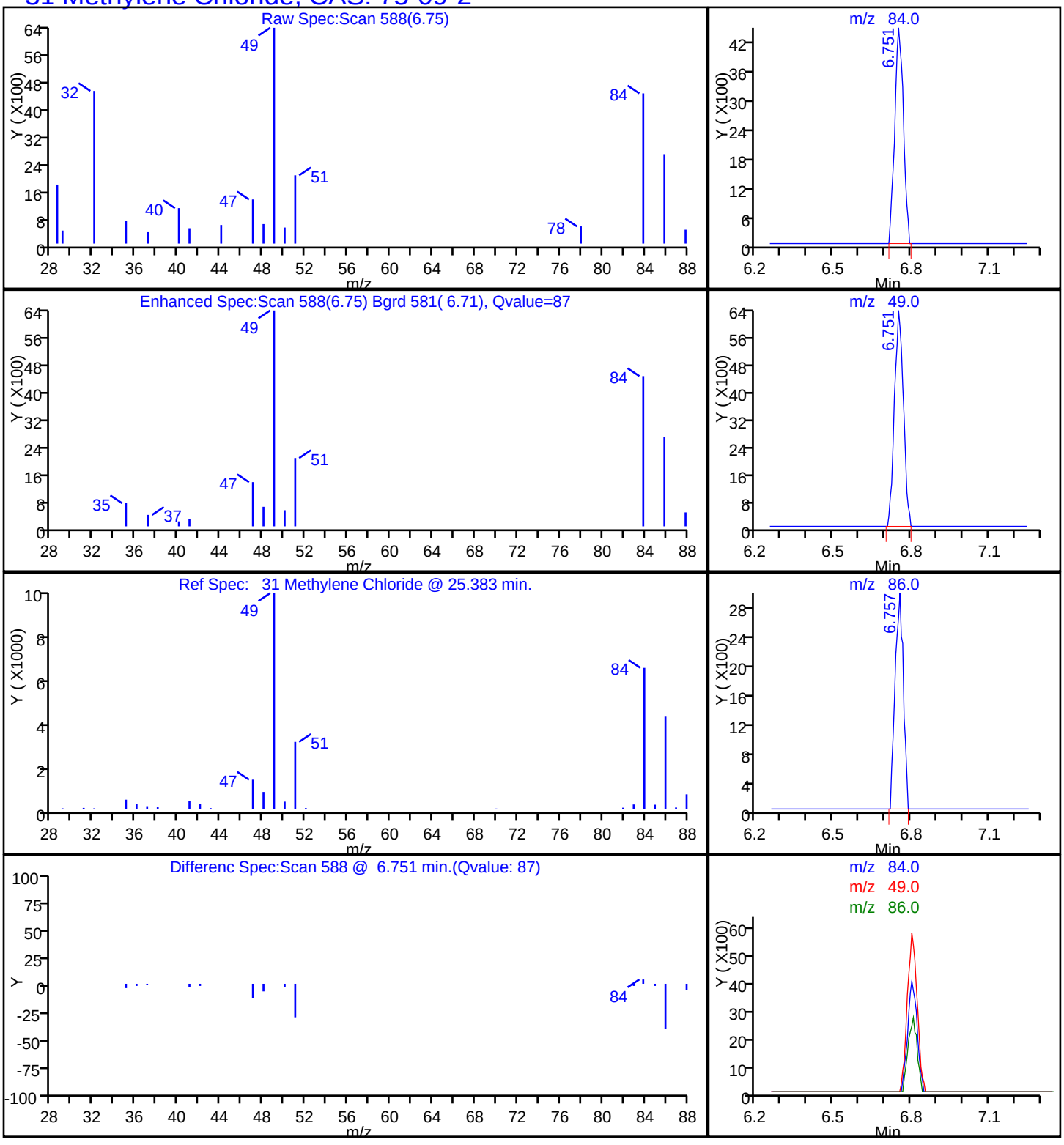
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

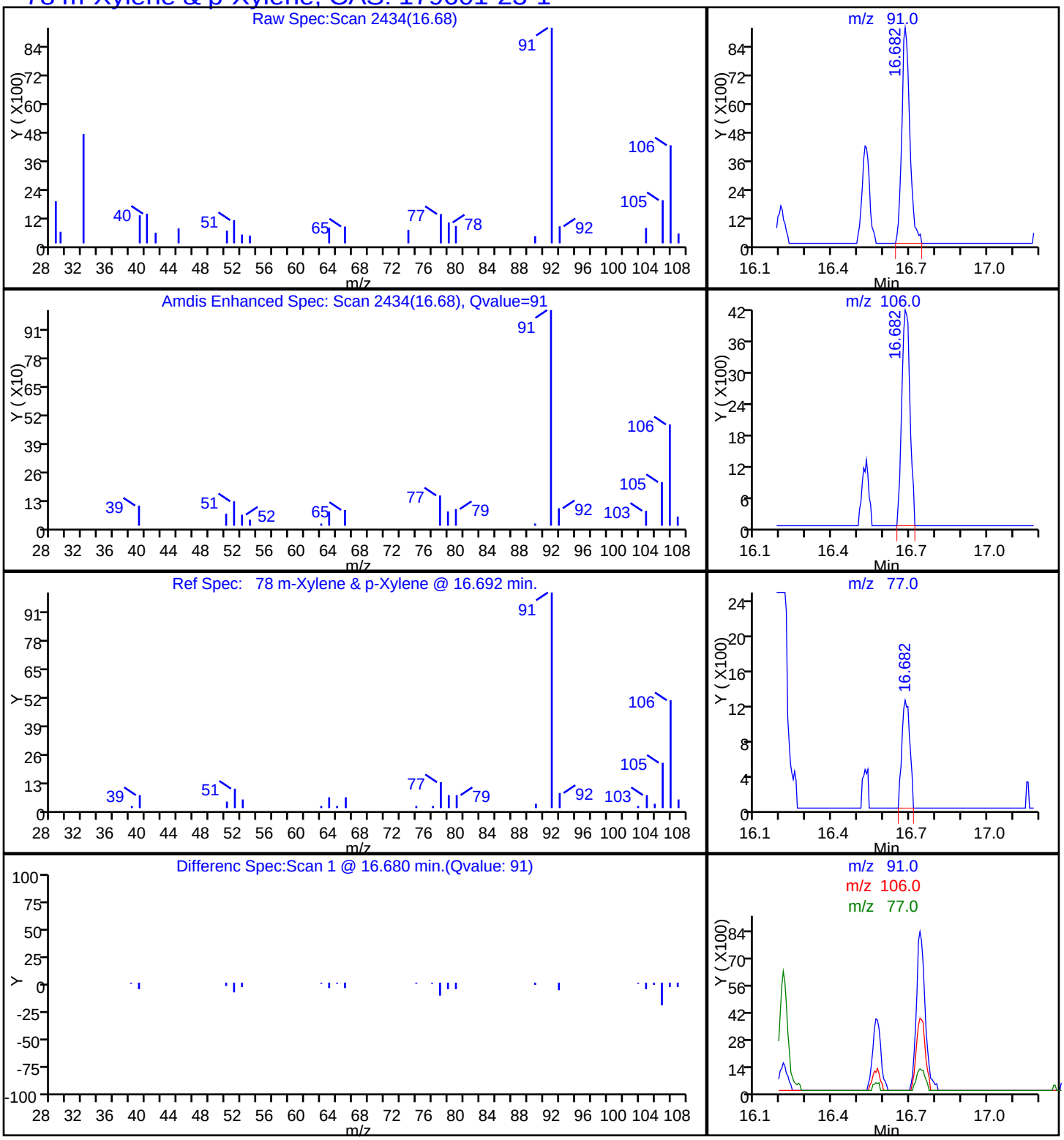


Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D				
Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



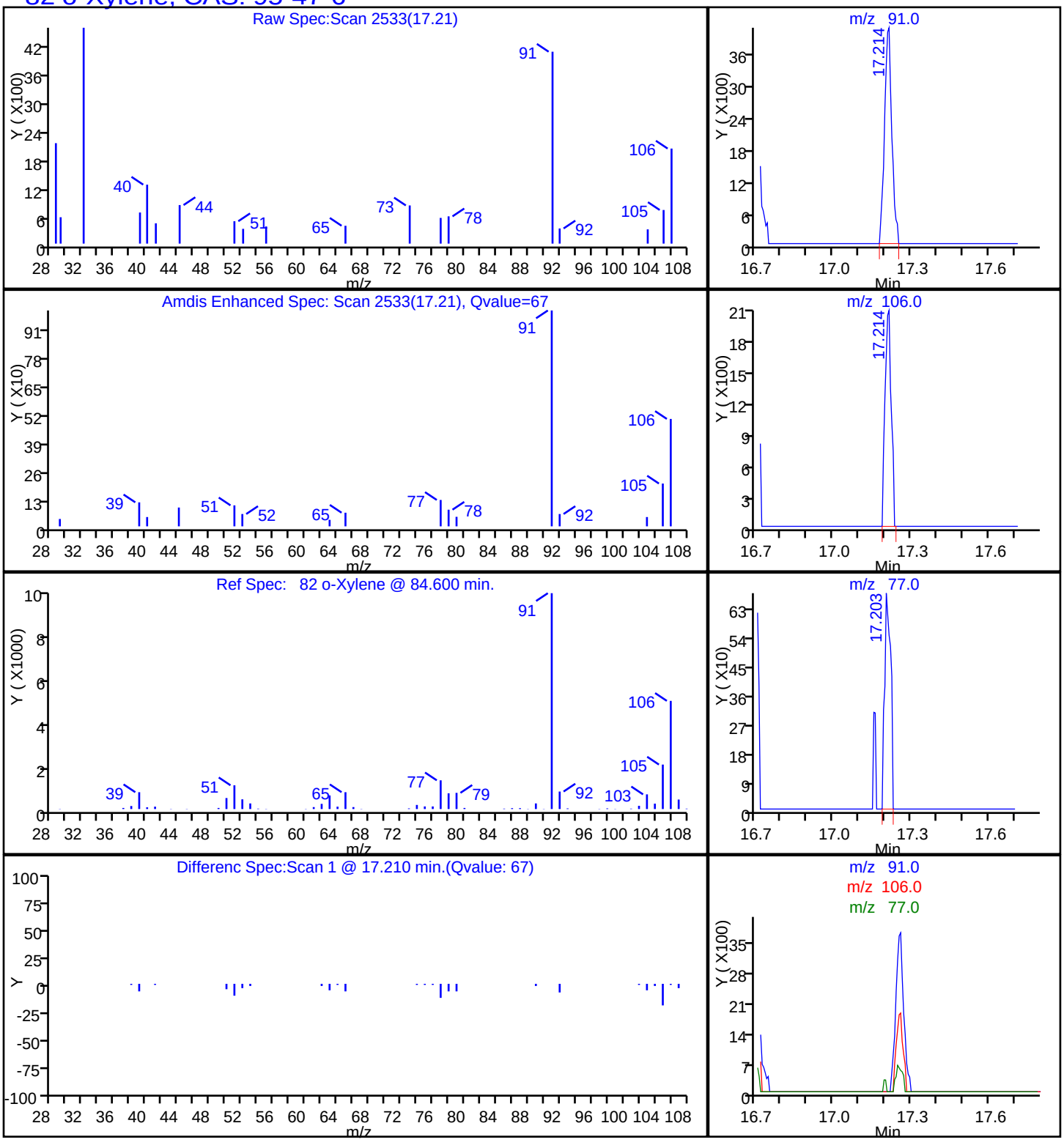
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



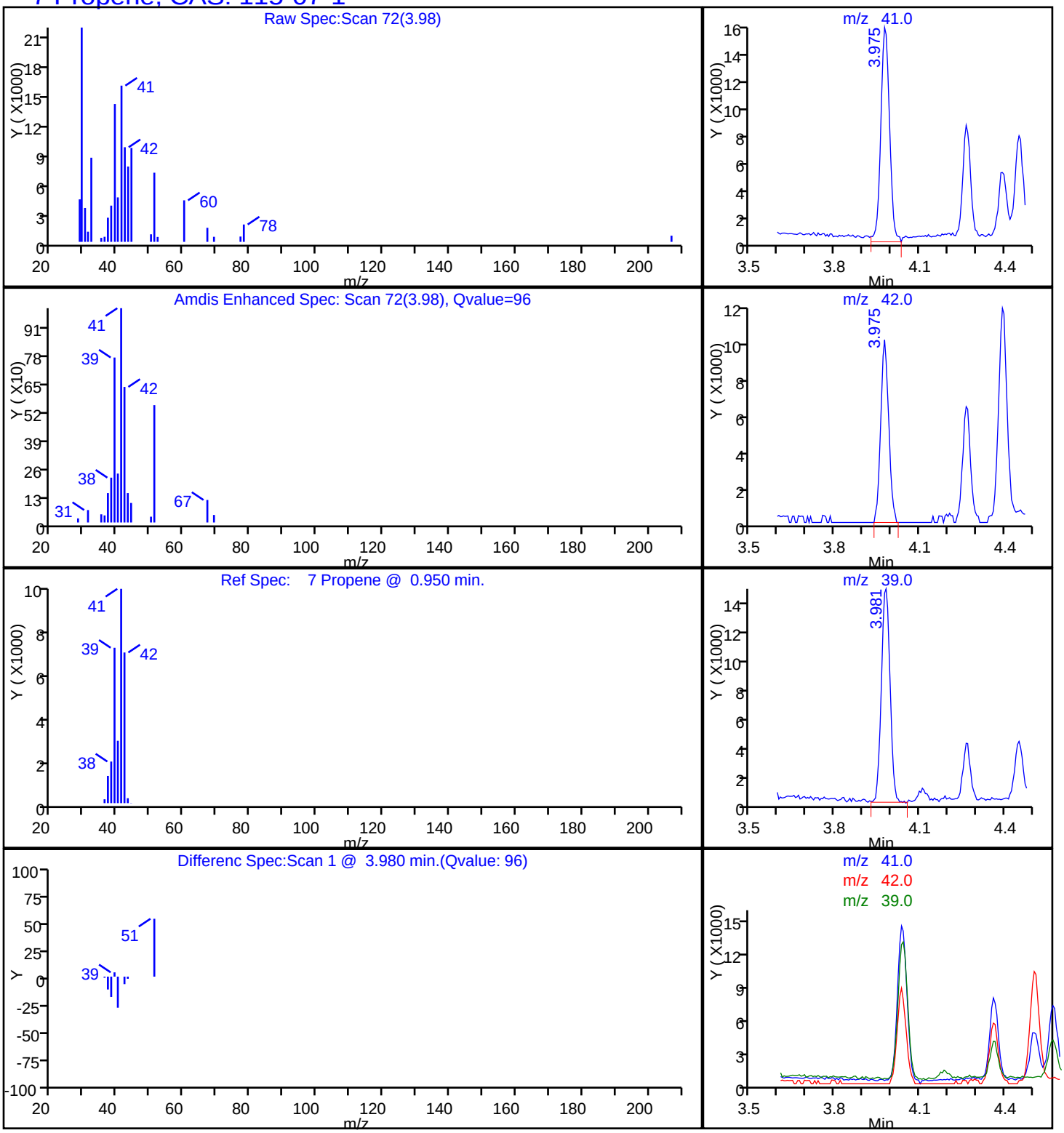
Report Date: 19-Mar-2014 12:59:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



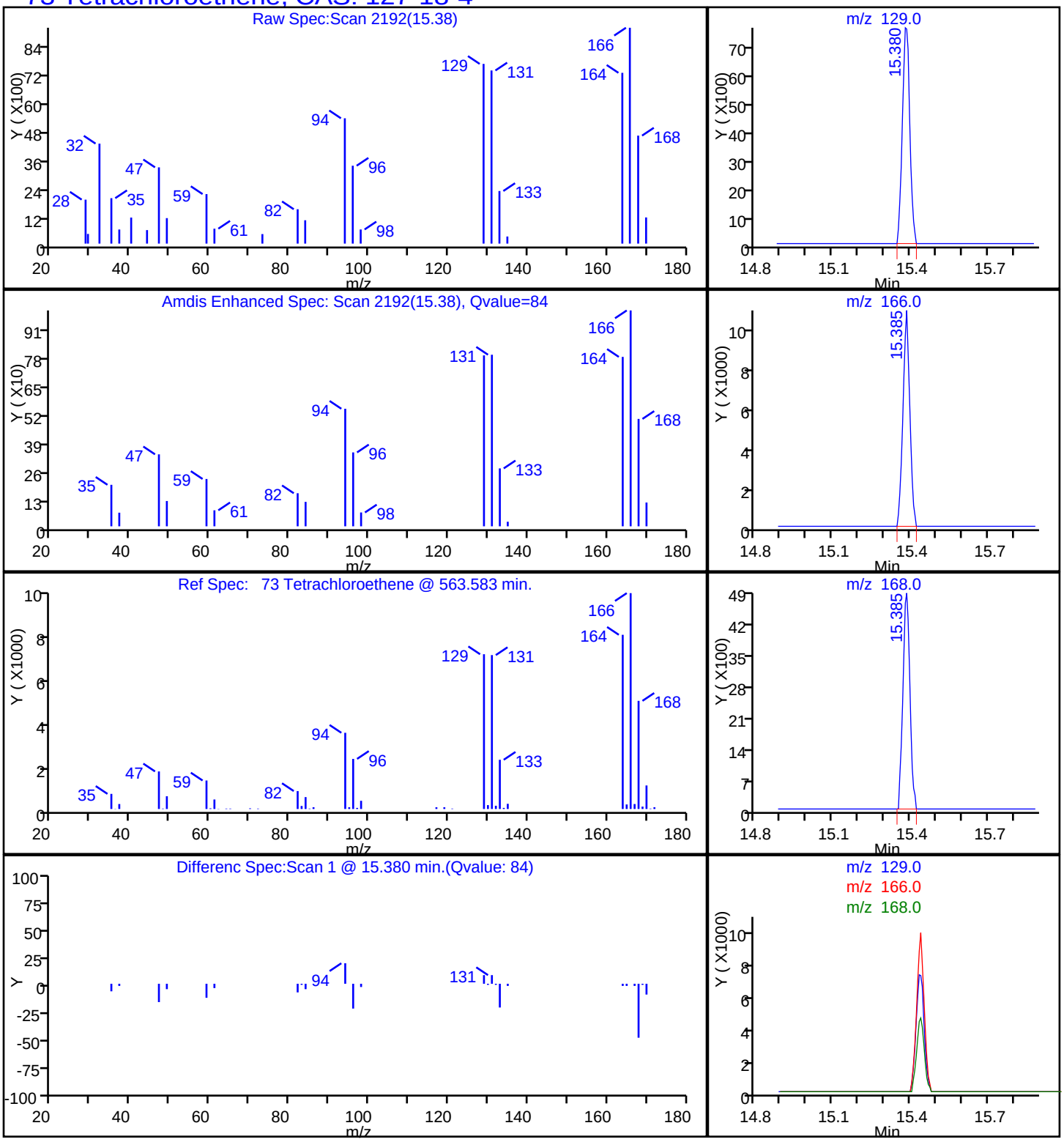
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



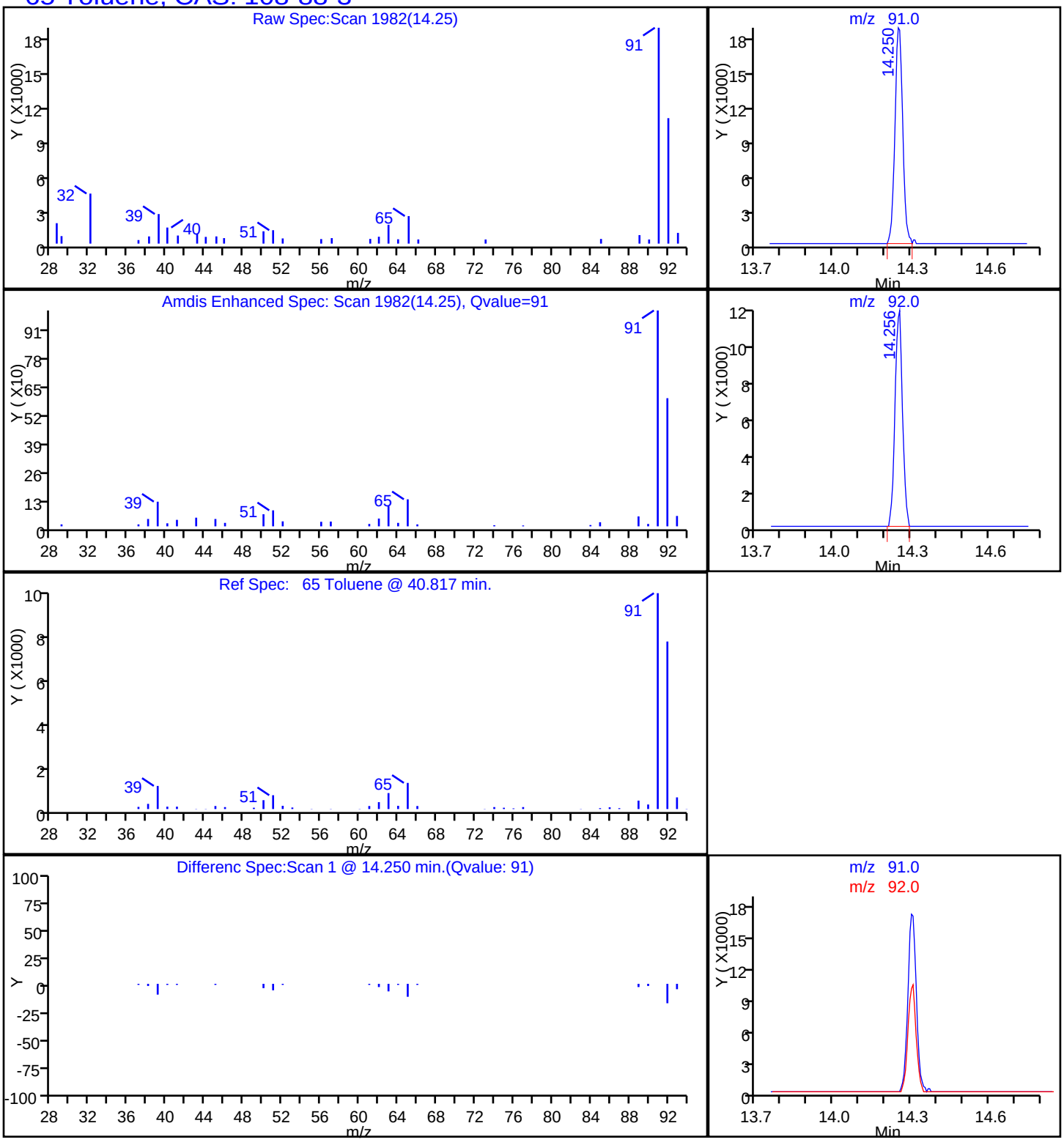
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5		
Client ID:	AMB-2				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



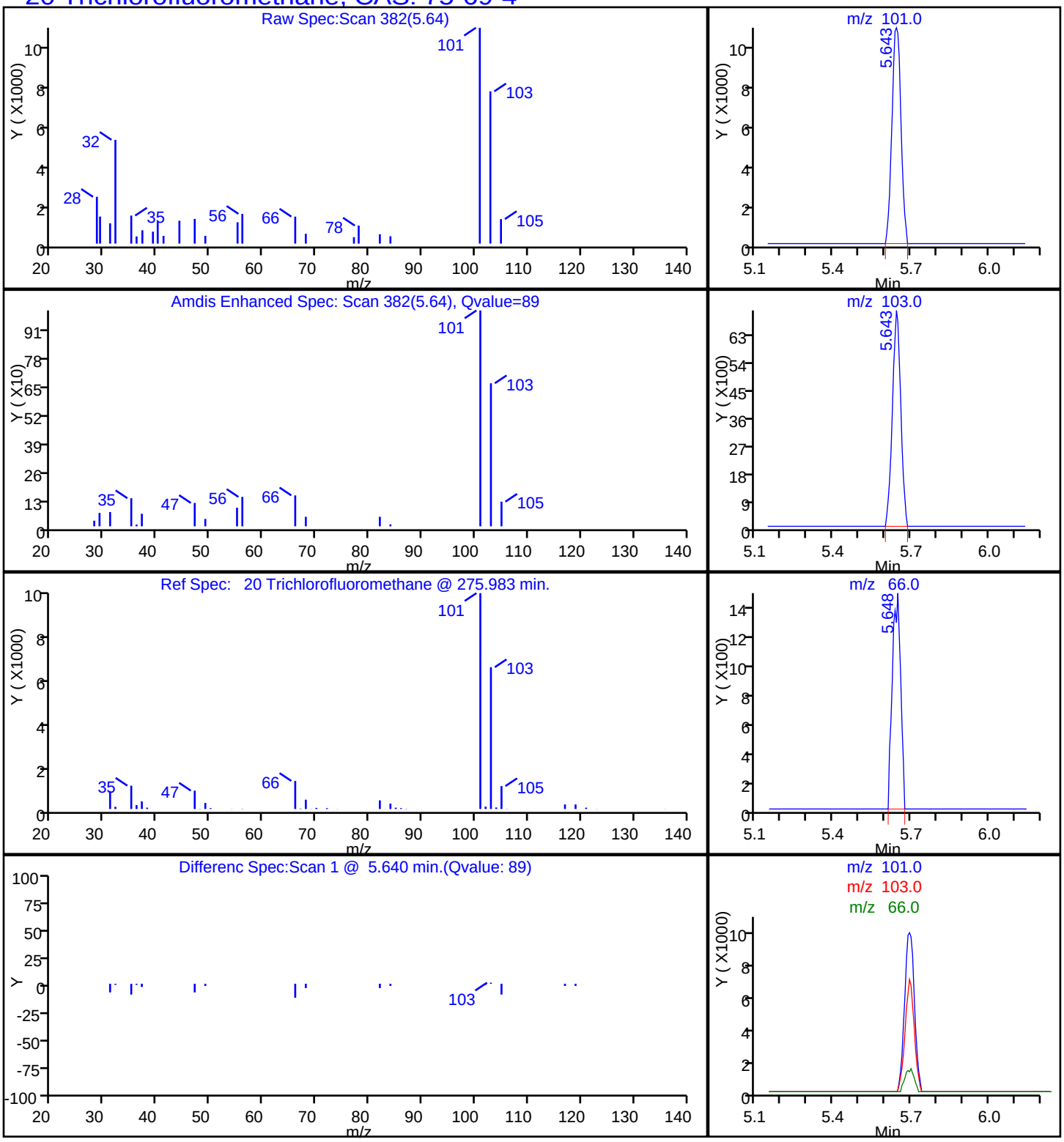
Report Date: 19-Mar-2014 12:59:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date:	19-Mar-2014 02:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-5	Lab Sample ID:	140-1063-5
Client ID:	AMB-2		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6

Matrix: Air Lab File ID: JC18P209.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.61	J	1.0	0.20
591-78-6	2-Hexanone	100.20	0.058	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.27	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.15	J	0.50	0.045
67-64-1	Acetone	58.08	3.2	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6

Matrix: Air Lab File ID: JC18P209.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	8.0		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.057	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.64	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.23	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.14	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.60	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.55		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.29		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6

Matrix: Air Lab File ID: JC18P209.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6

Matrix: Air Lab File ID: JC18P209.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	0.24	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.80	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60	J	2.0	0.18
67-64-1	Acetone	58.08	7.5	J	12	3.3
71-43-2	Benzene	78.11	0.69		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 | Lab Sample ID: 140-1063-6

Matrix: Air | Lab File ID: JC18P209.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) | Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 971 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	15		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.40	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.81	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.61	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	3.7		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6

Matrix: Air Lab File ID: JC18P209.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:49

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D
Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6
Client ID: AMB-4
Sample Type: Client
Inject. Date: 19-Mar-2014 03:20:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-6
Misc. Info.: J031814,TO15,,140-0000527-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:04:05

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.380	9.388	-0.008	89	362335	4.00	
*	2 1,4-Difluorobenzene	114	11.537	11.539	-0.002	94	1751097	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.196	16.198	-0.002	93	1422550	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.820	17.817	0.003	91	903134	3.59	
	7 Propene	41	3.979	3.971	0.008	93	26729	0.2406	
	8 Dichlorodifluoromethane	85	4.027	4.030	-0.003	100	62205	0.1733	
	9 Chloromethane	52	4.227	4.229	-0.002	97	8066	0.1978	
	17 Ethanol	31	5.114	5.116	-0.002	94	93475	3.21	
	19 2-Methylbutane	43	5.410	5.407	0.003	89	16782	0.1091	
	20 Trichlorofluoromethane	101	5.641	5.644	-0.003	84	24461	0.0776	
	23 Acetone	58	5.765	5.767	-0.002	92	64980	1.26	
	24 Isopropyl alcohol	45	5.856	5.848	0.008	77	34990	0.2573	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.577	6.580	-0.003	68	5967	0.0273	
	31 Methylene Chloride	84	6.755	6.757	-0.002	81	9010	0.0930	
	39 2-Butanone (MEK)	72	8.600	8.586	0.014	97	8408	0.2451	
	40 Hexane	56	8.632	8.635	-0.003	59	4381	0.0450	
	48 Benzene	78	11.021	11.023	-0.002	89	26007	0.0866	
	50 Carbon tetrachloride	117	11.048	11.050	-0.002	87	6726	0.0271	
	53 Isooctane	57	11.763	11.760	0.003	51	9546	0.0186	
	54 n-Heptane	71	12.118	12.120	-0.002	81	2427	0.0228	
	62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.368	0.009	86	10789	0.0588	
	65 Toluene	91	14.254	14.256	-0.002	84	30339	0.1150	
	69 2-Hexanone	58	14.695	14.681	0.014	46	2003	0.0232	
	73 Tetrachloroethene	129	15.384	15.386	-0.002	89	27044	0.2200	
	78 m-Xylene & p-Xylene	91	16.685	16.688	-0.003	84	13233	0.0563	

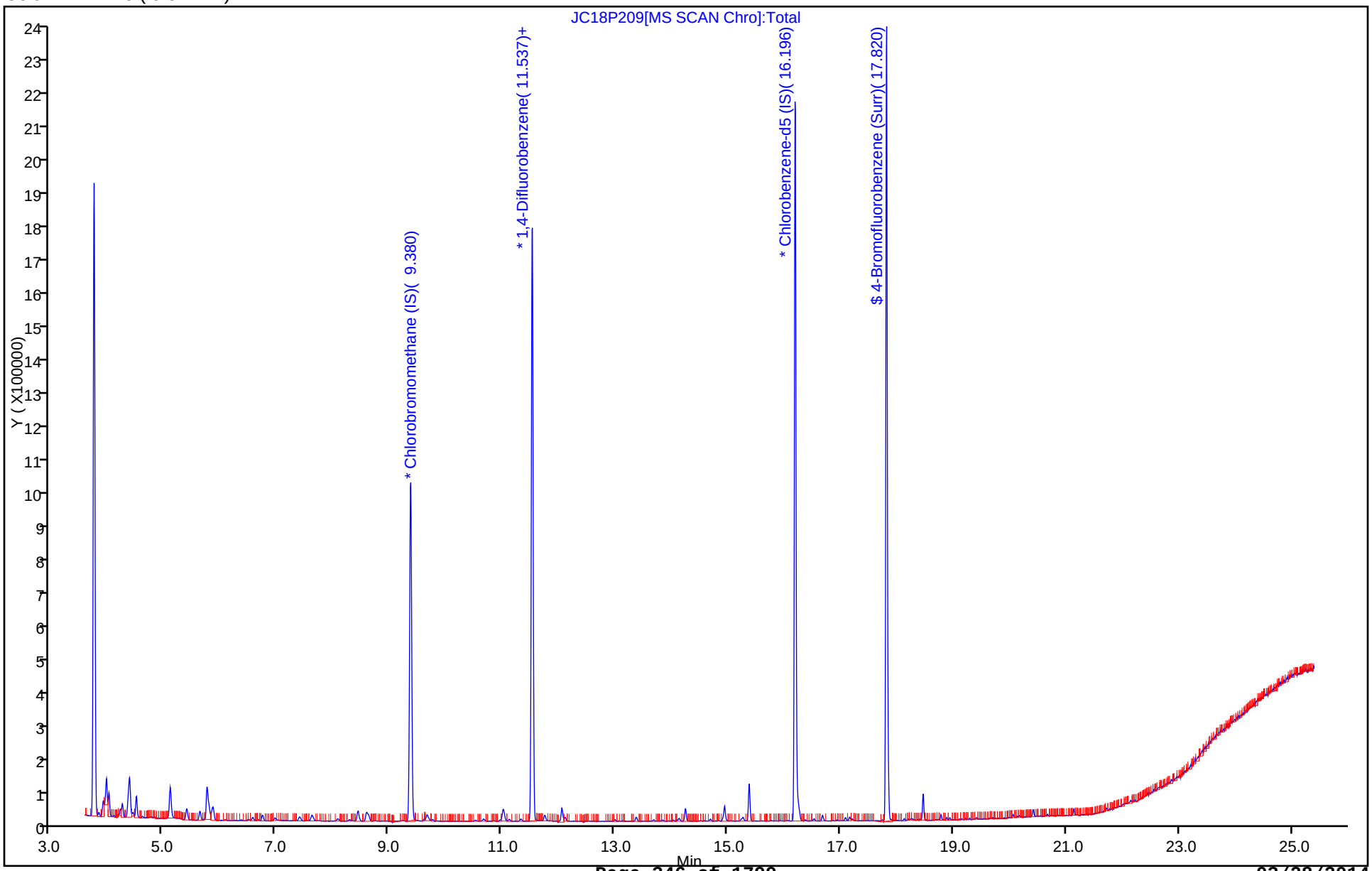
Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6	Worklist Smp#:	15
Client ID:	AMB-4				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30 Instrument ID: MJ

Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6

Client ID: AMB-4

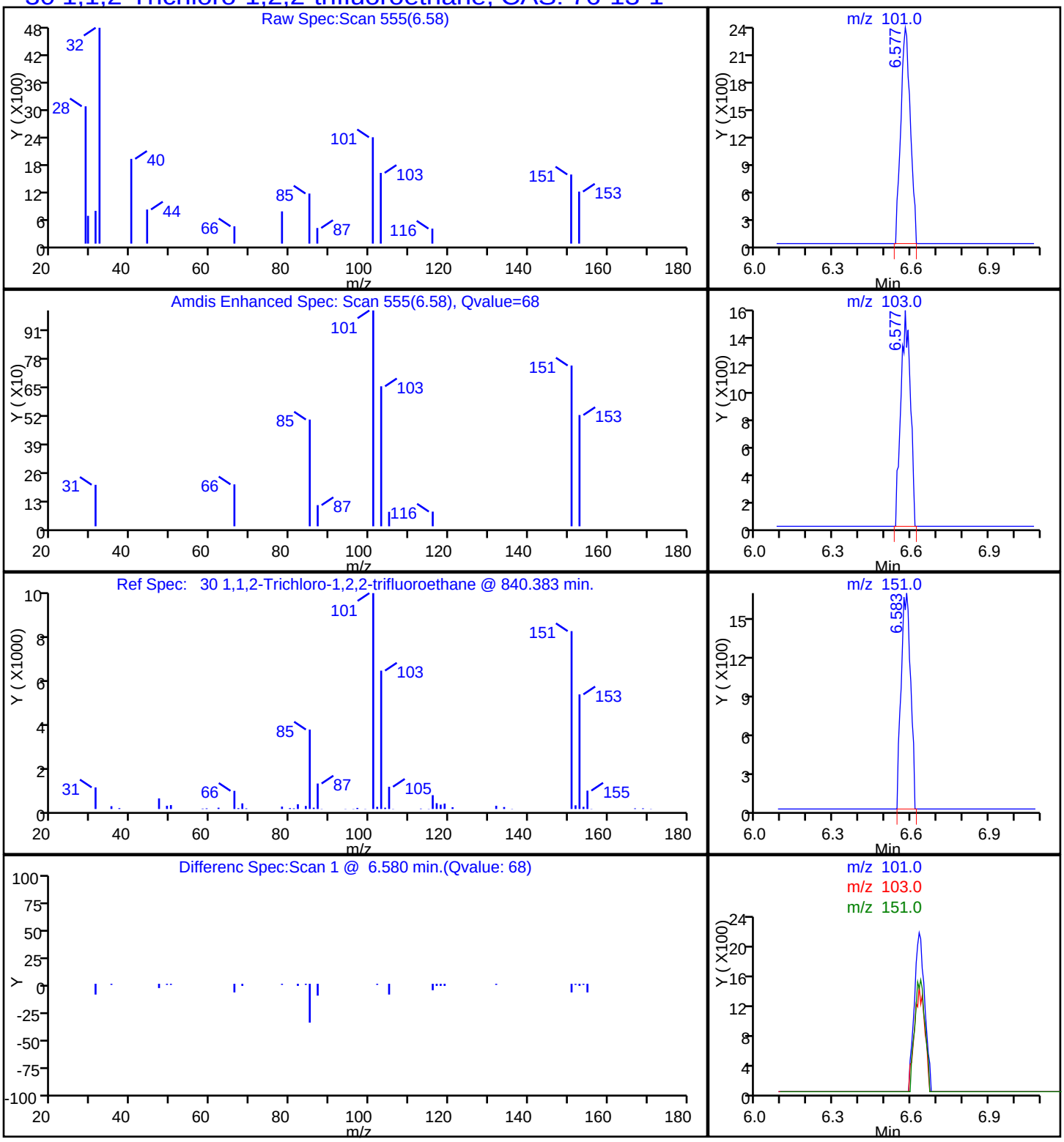
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



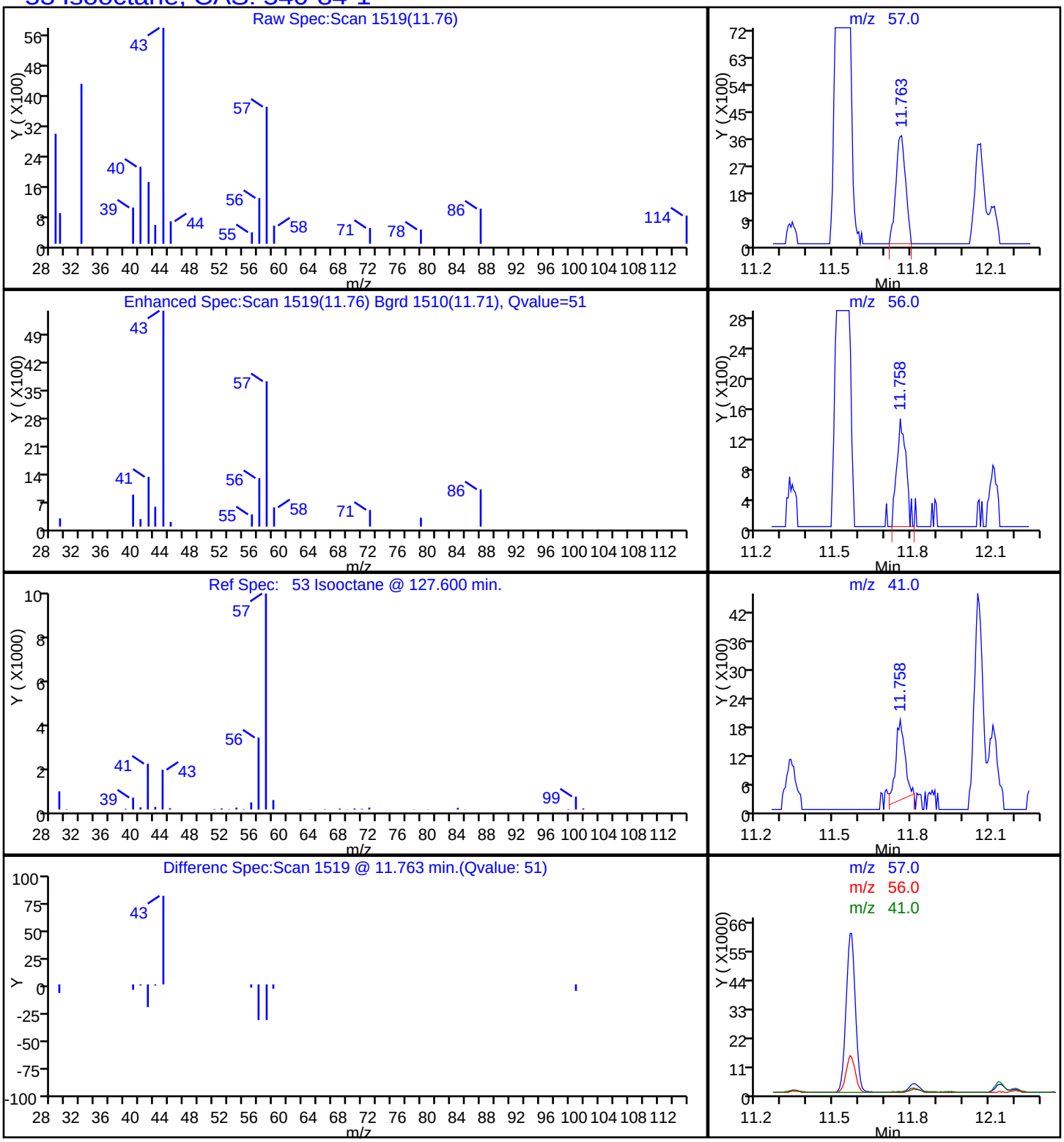
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1

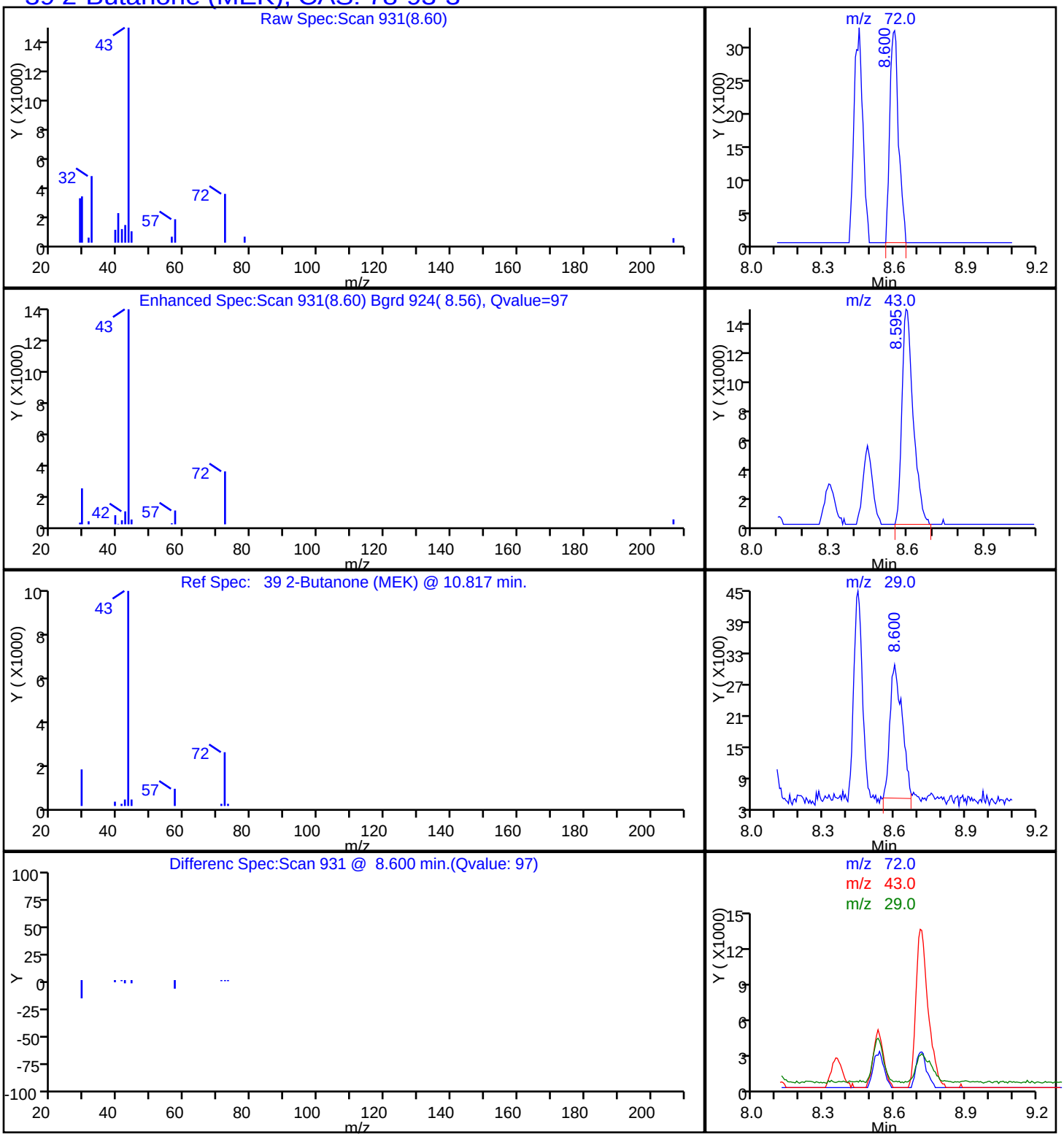


Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D				
Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3

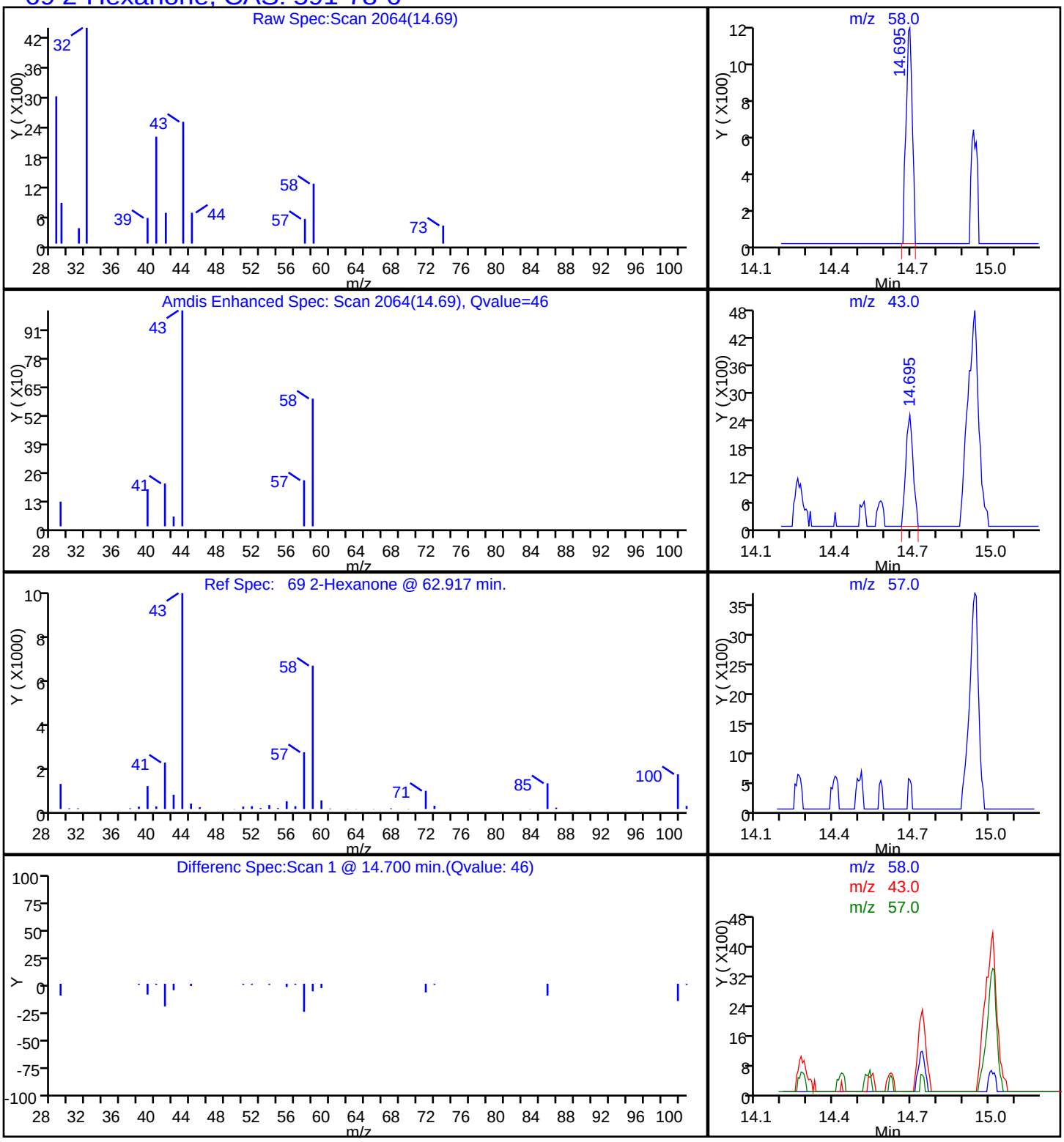


Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D				
Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

69 2-Hexanone, CAS: 591-78-6



Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30 Instrument ID: MJ

Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6

Client ID: AMB-4

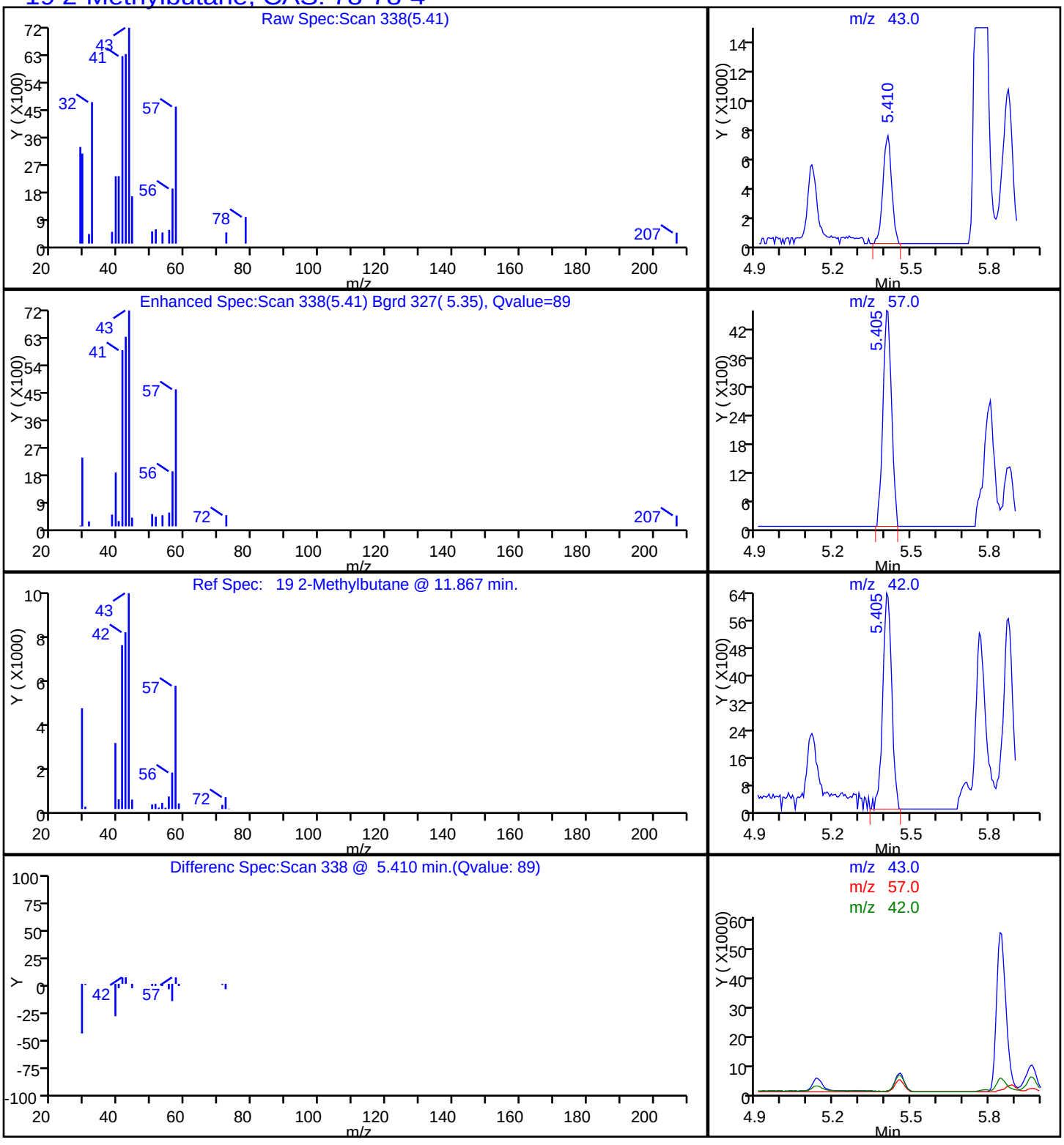
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



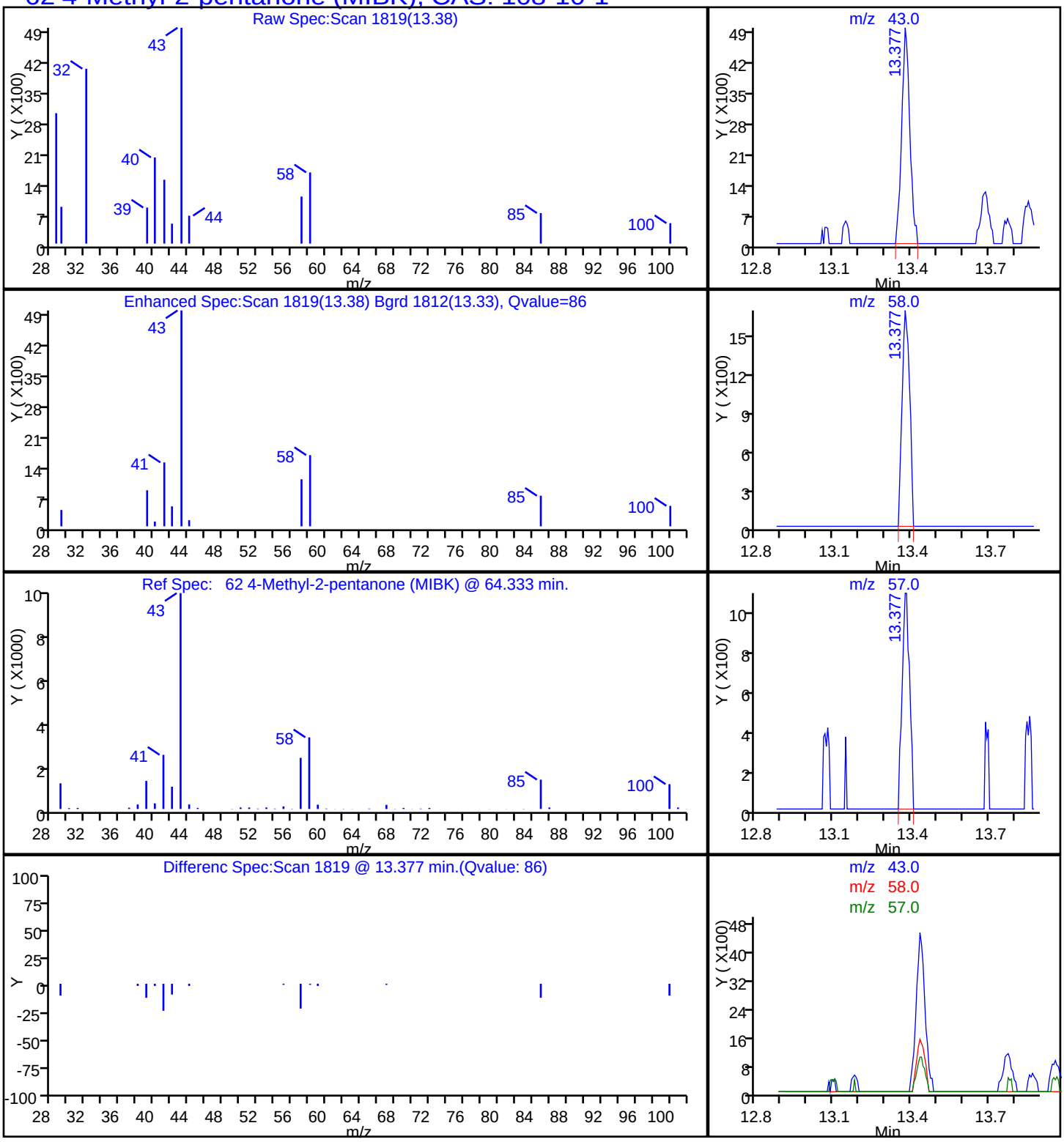
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



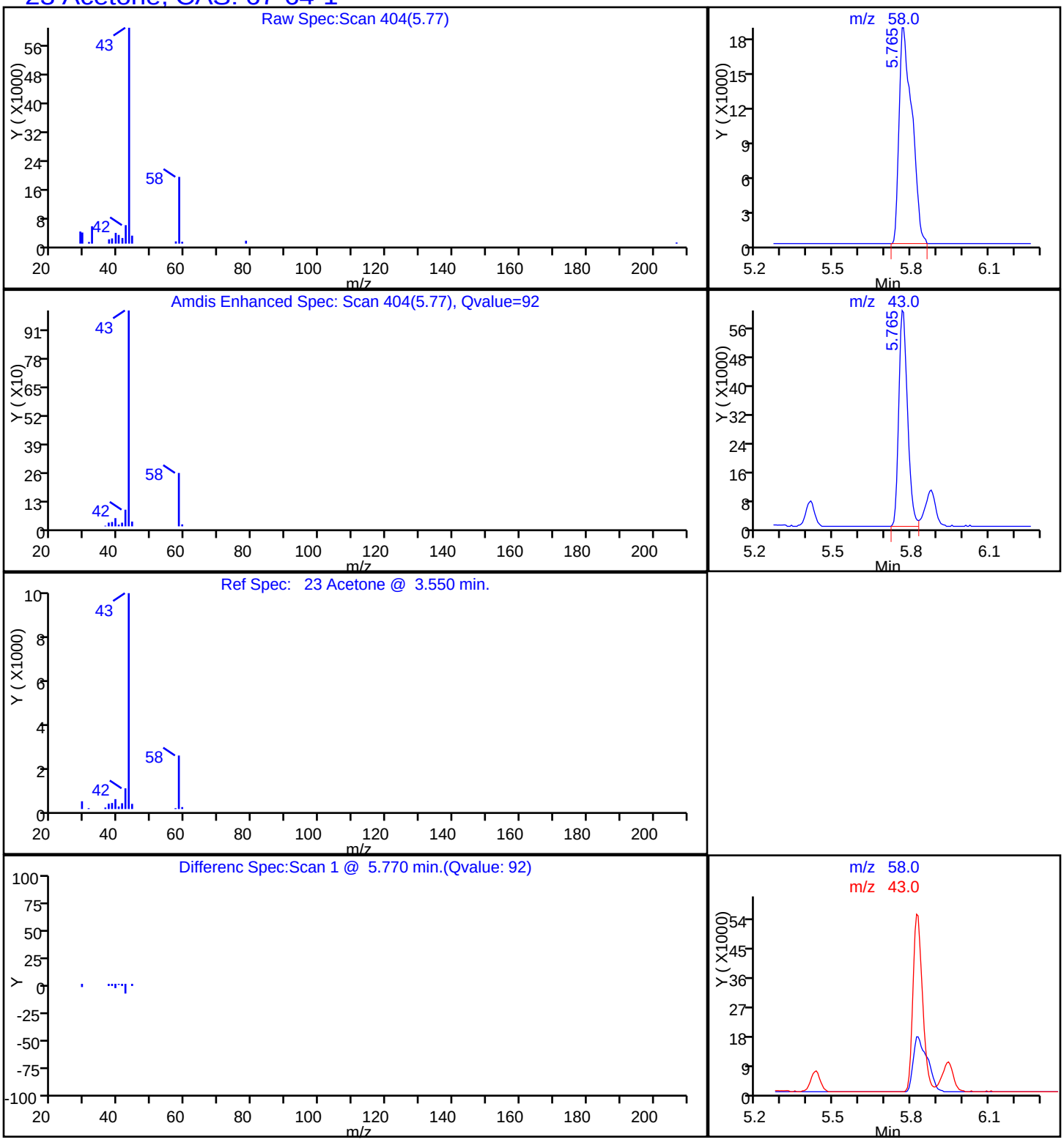
Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



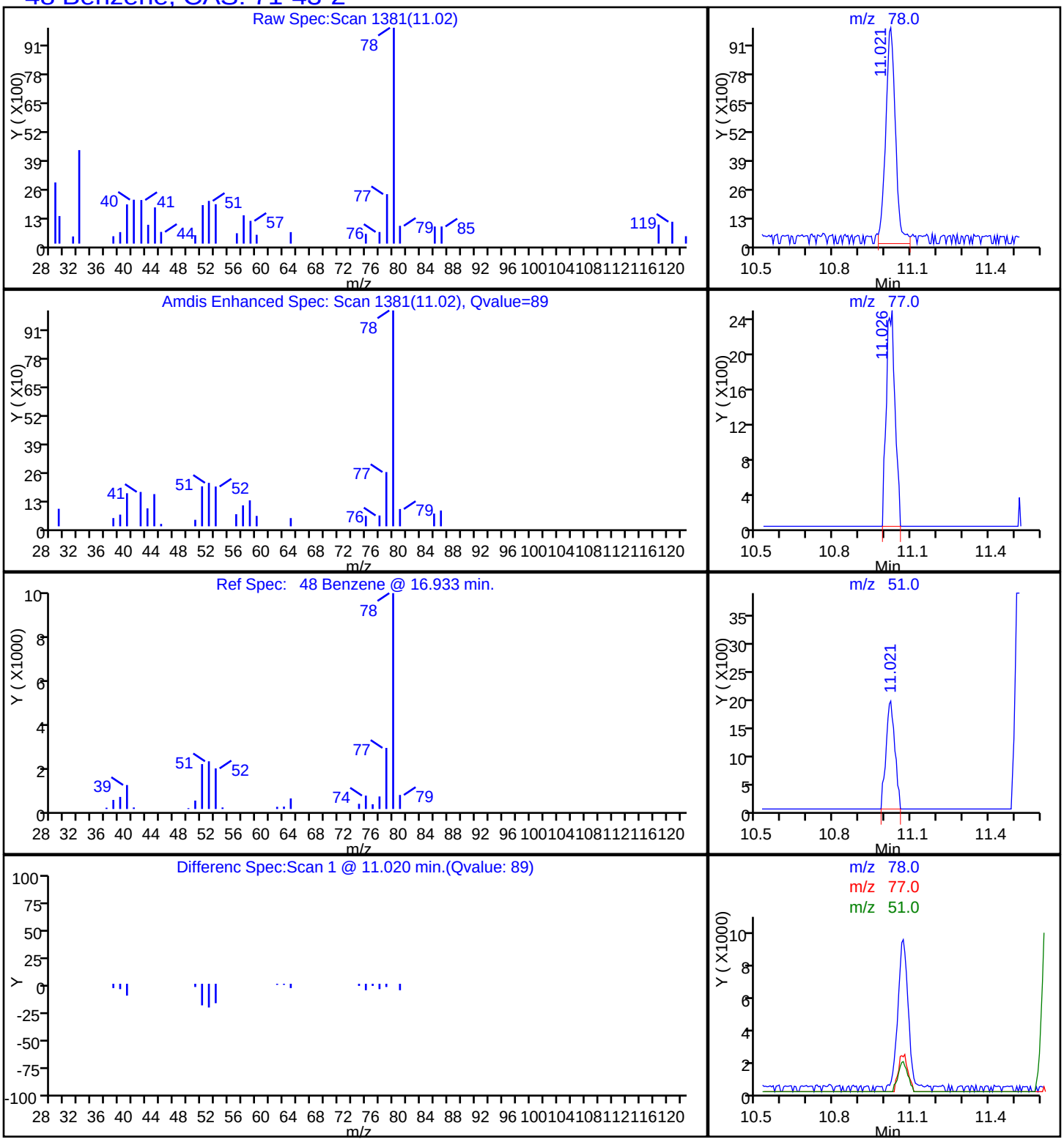
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6
Client ID:	AMB-4		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30 Instrument ID: MJ

Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6

Client ID: AMB-4

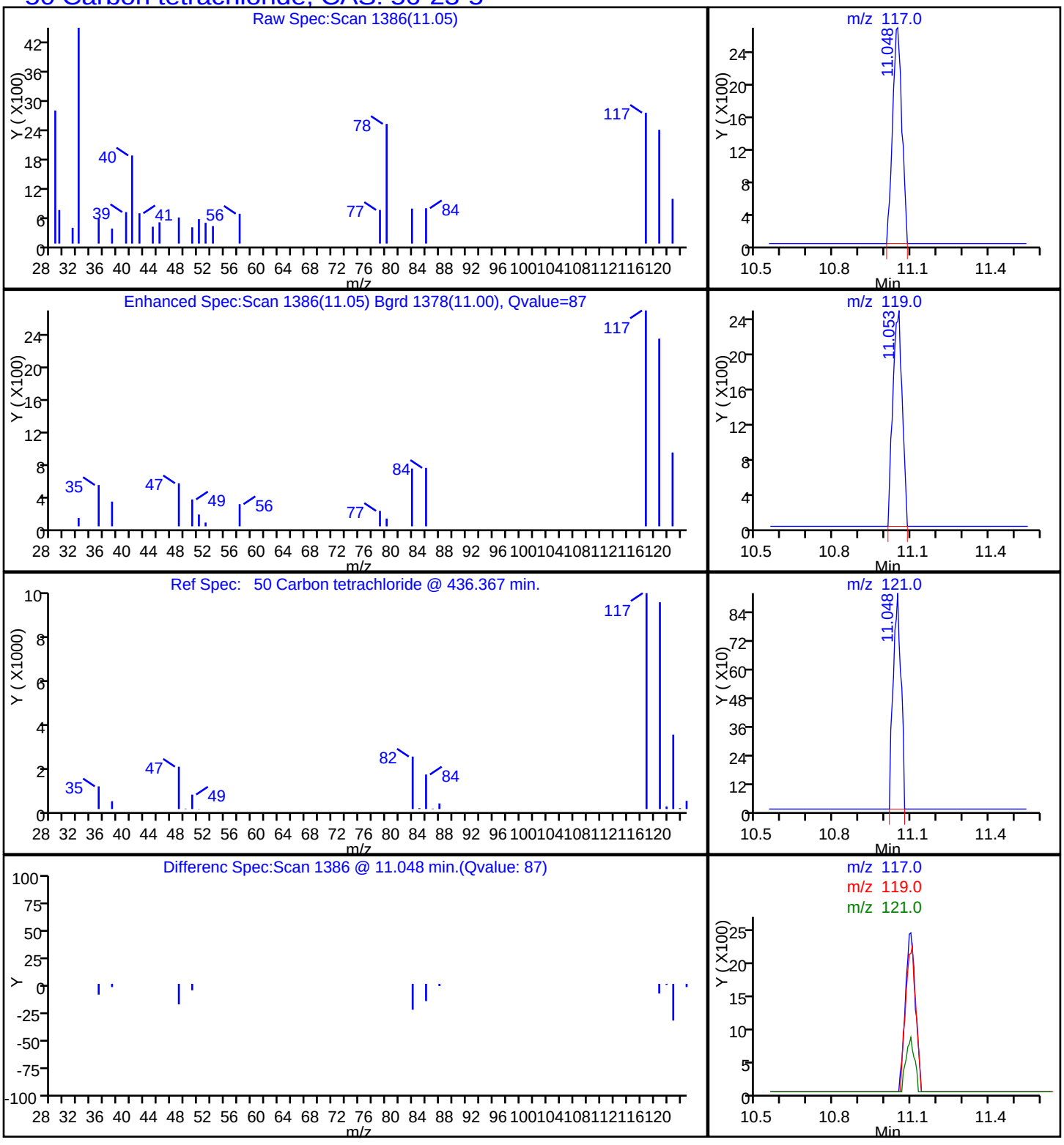
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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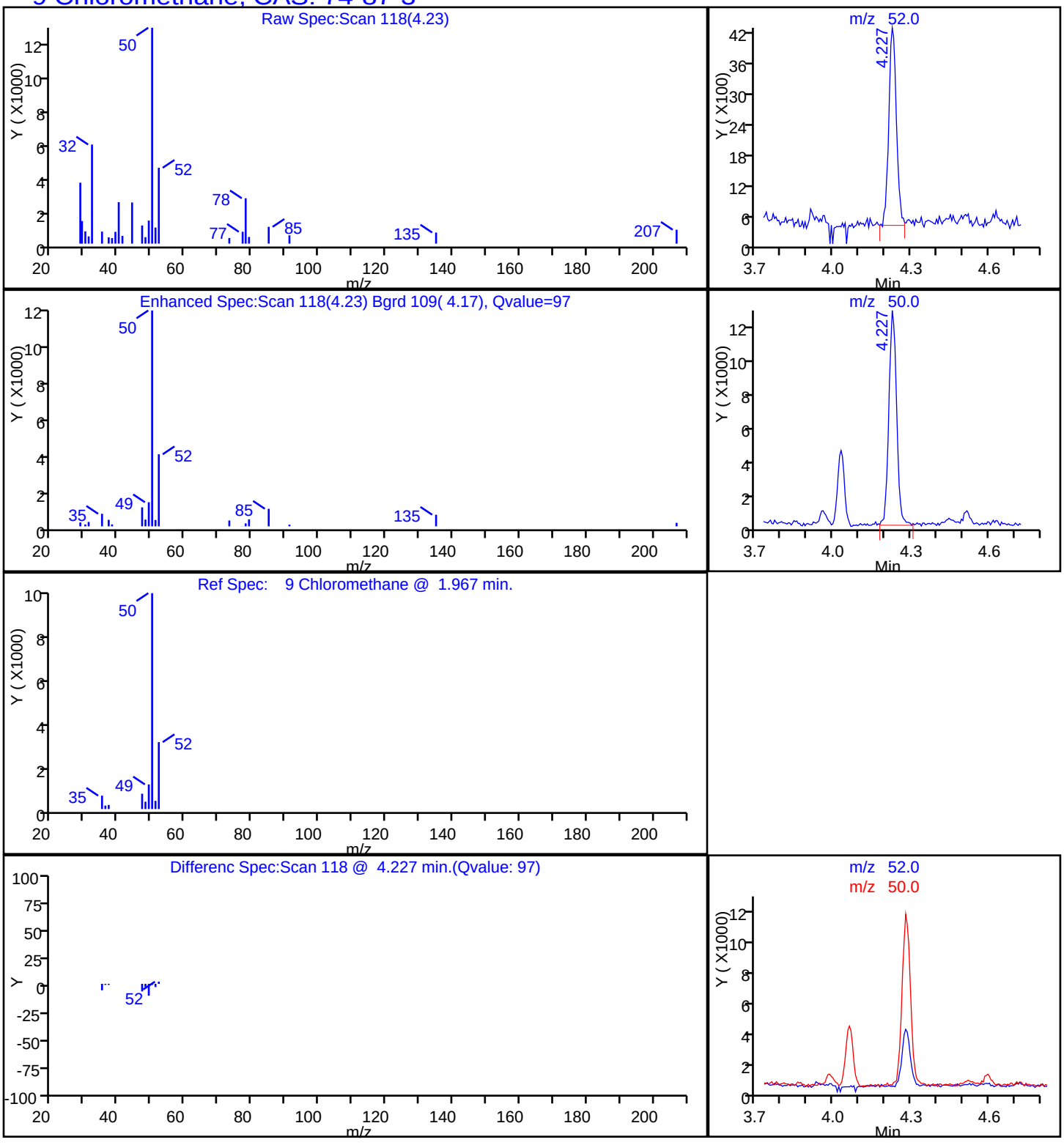
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6
Client ID:	AMB-4		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30 Instrument ID: MJ

Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6

Client ID: AMB-4

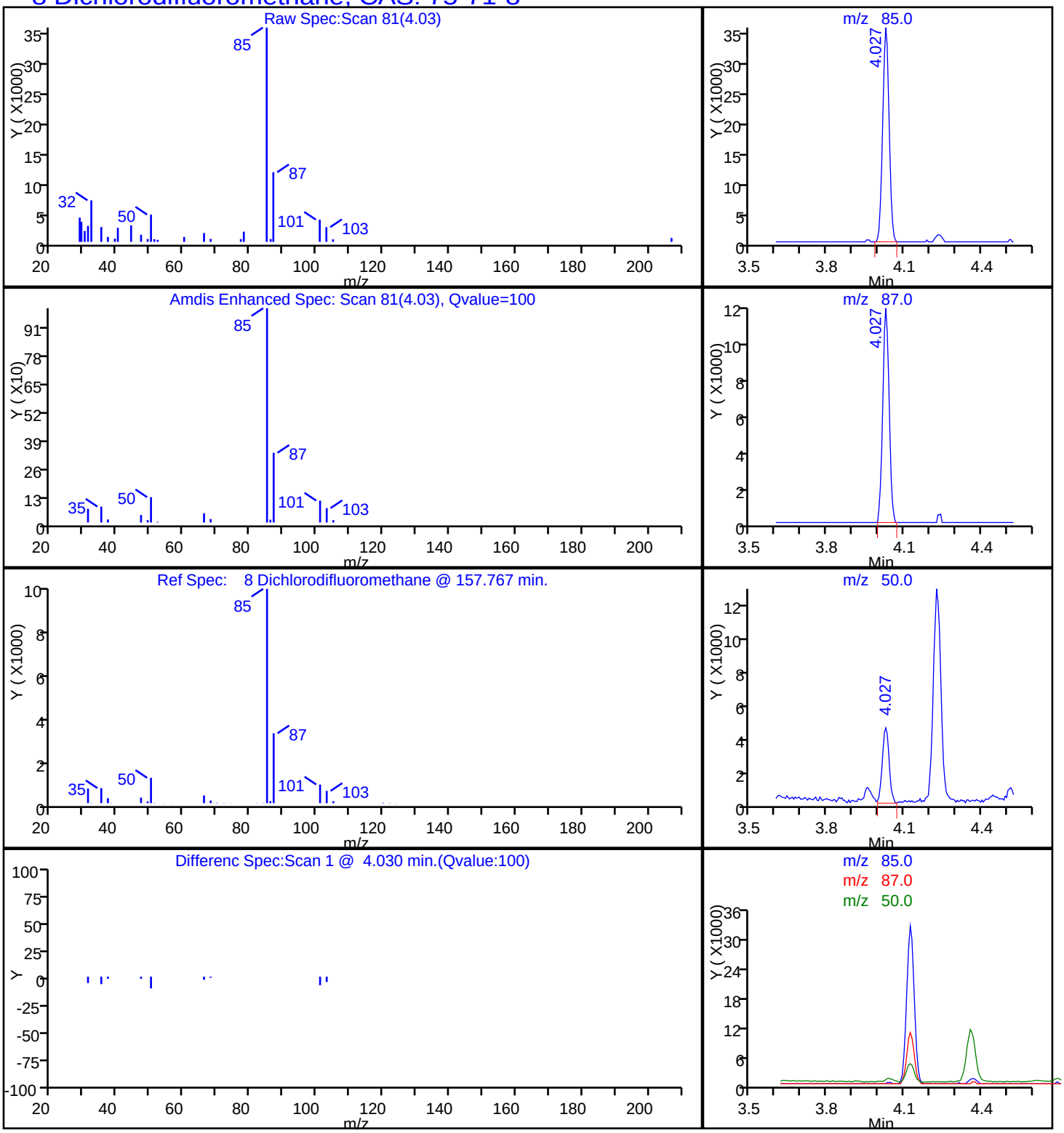
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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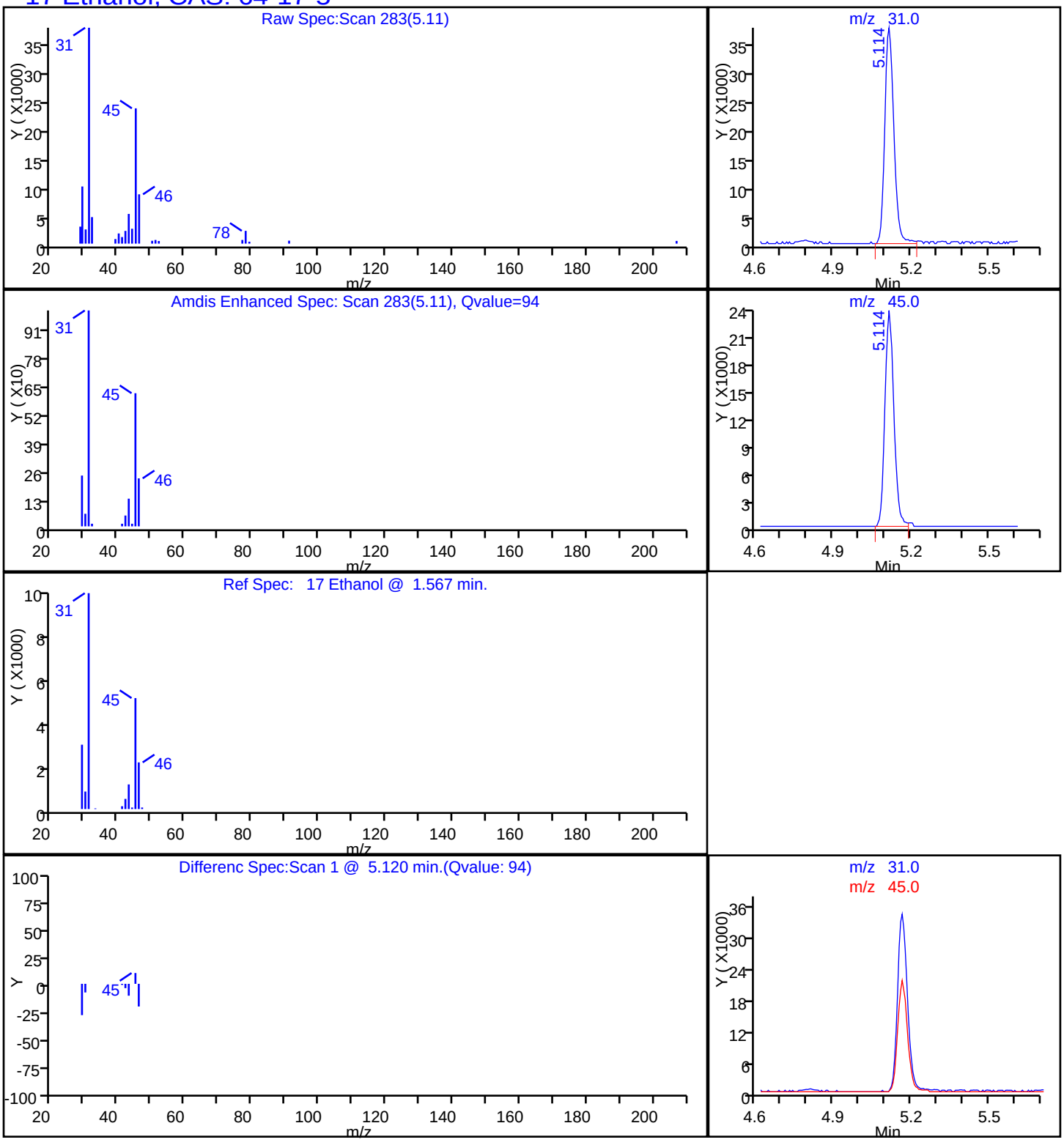
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6
Client ID:	AMB-4		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



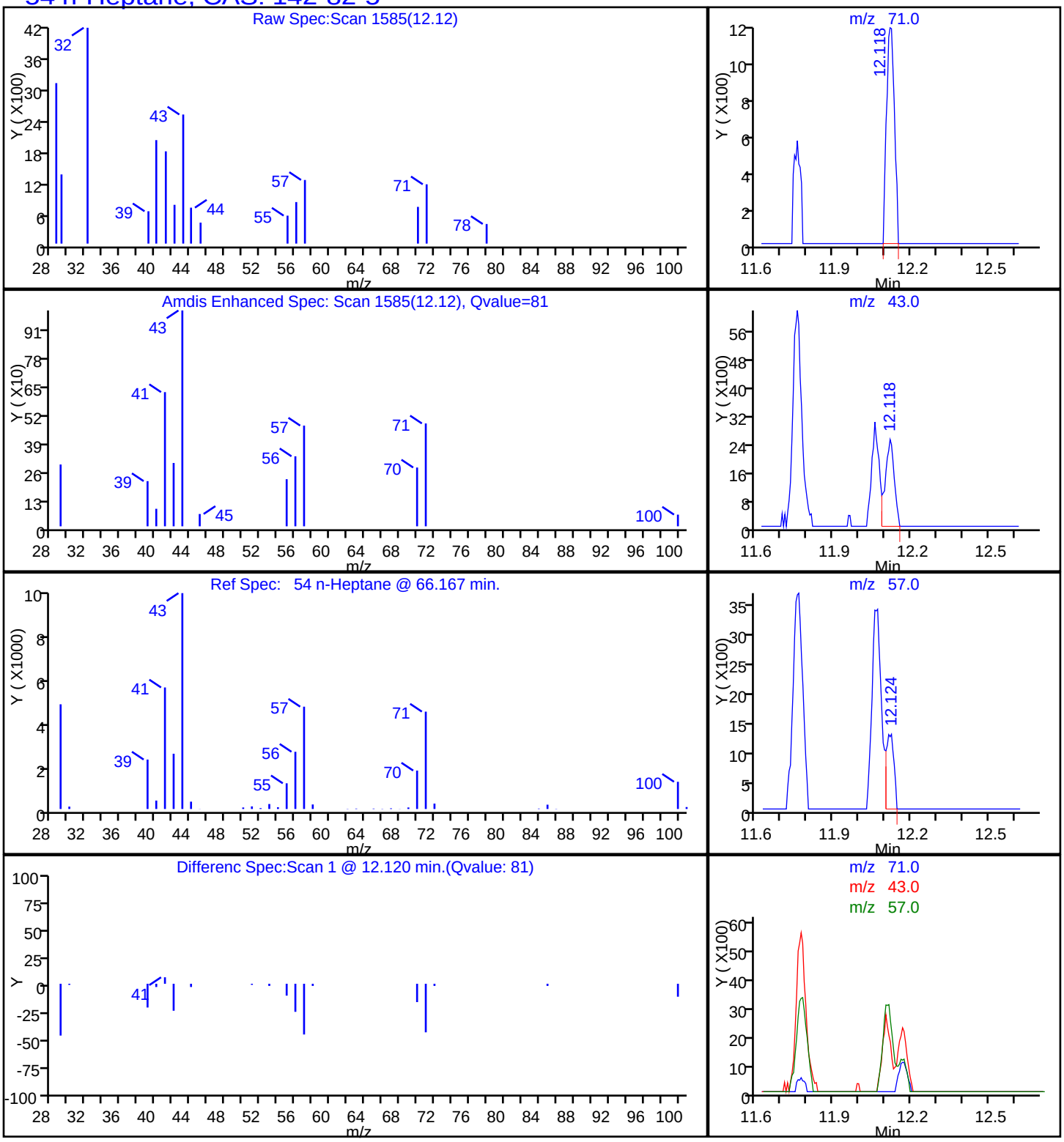
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



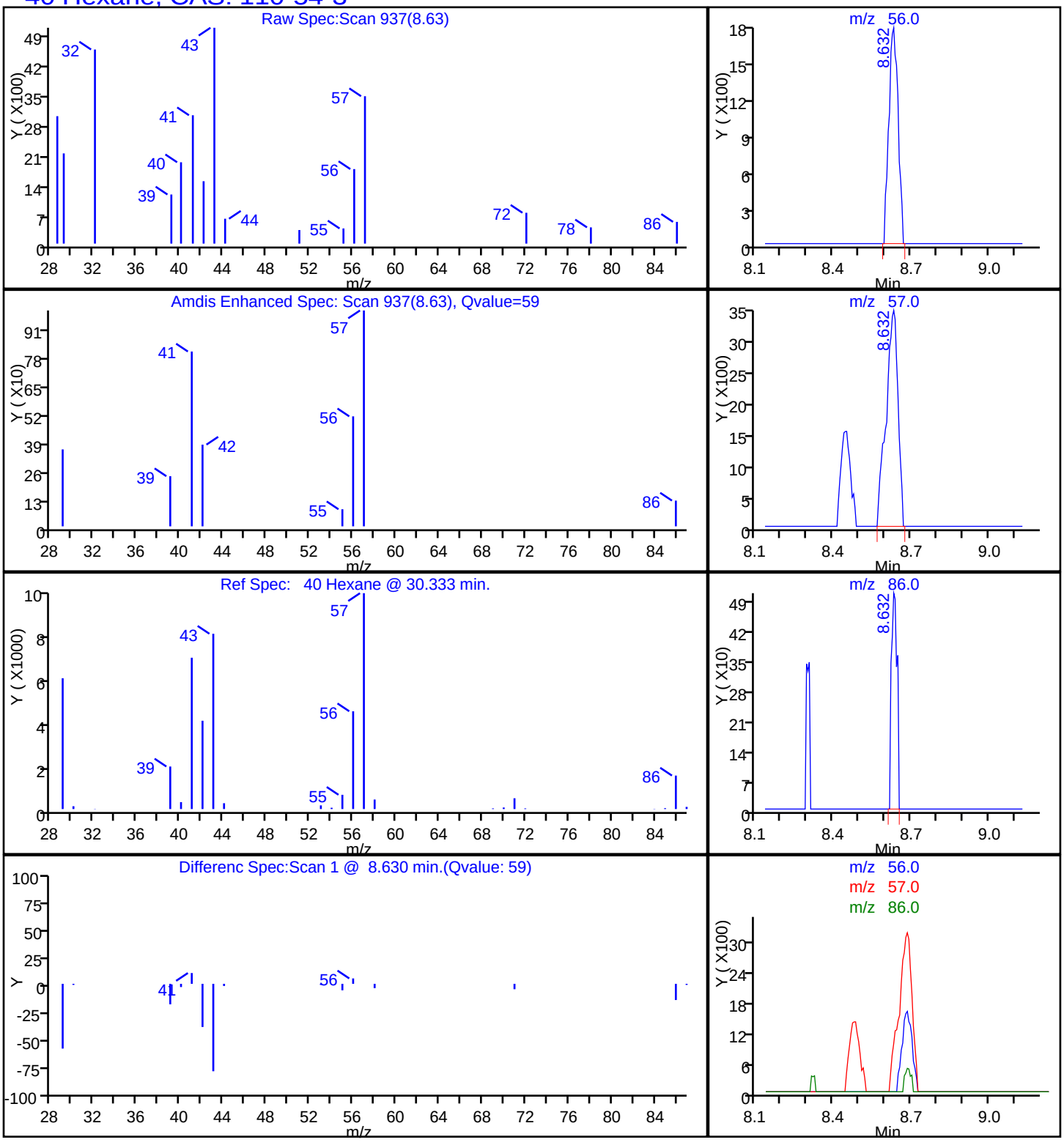
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6
Client ID:	AMB-4		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



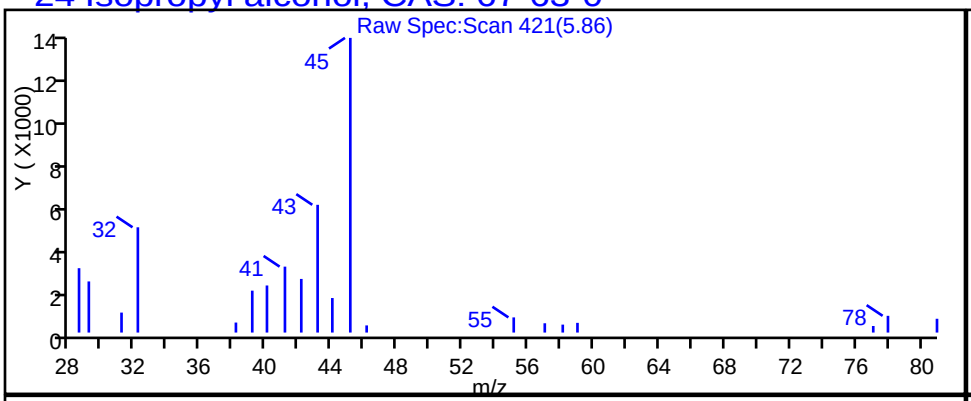
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

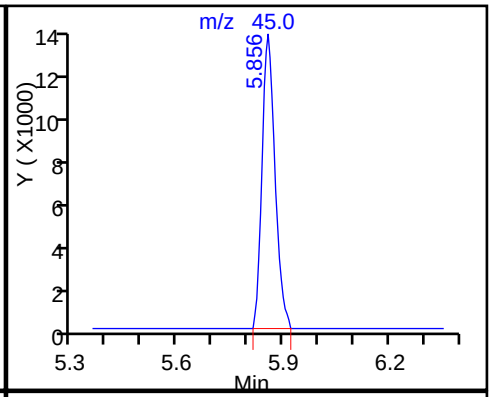
TestAmerica Knoxville

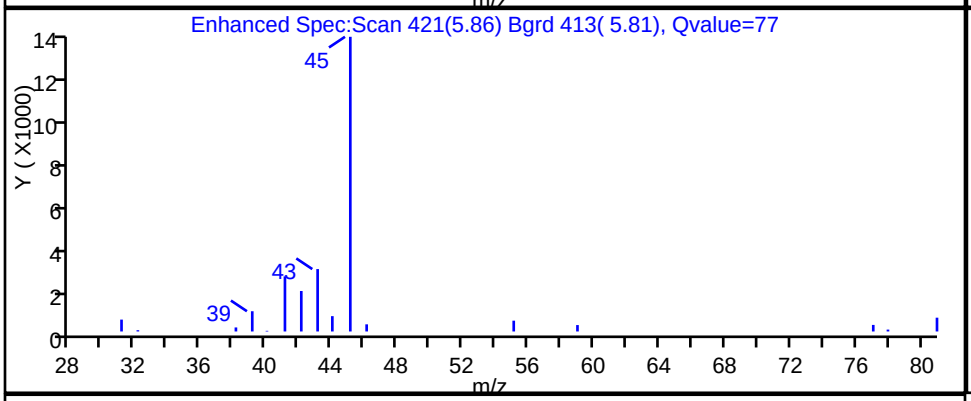
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

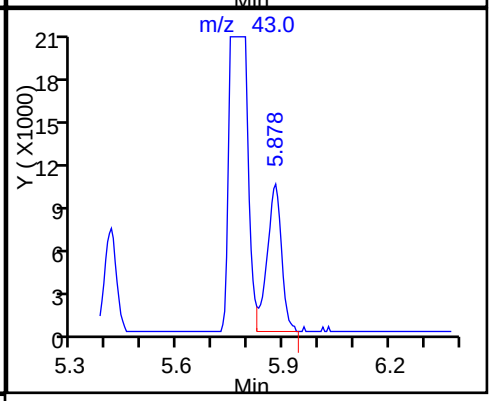
Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

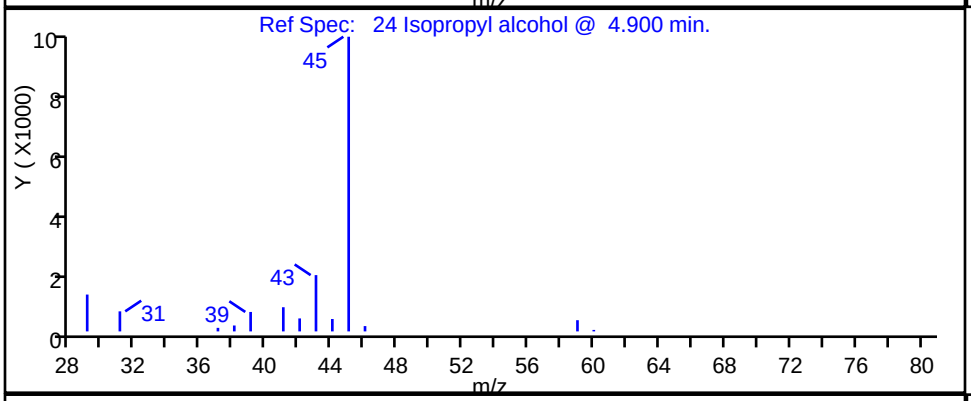
24 Isopropyl alcohol, CAS: 67-63-0

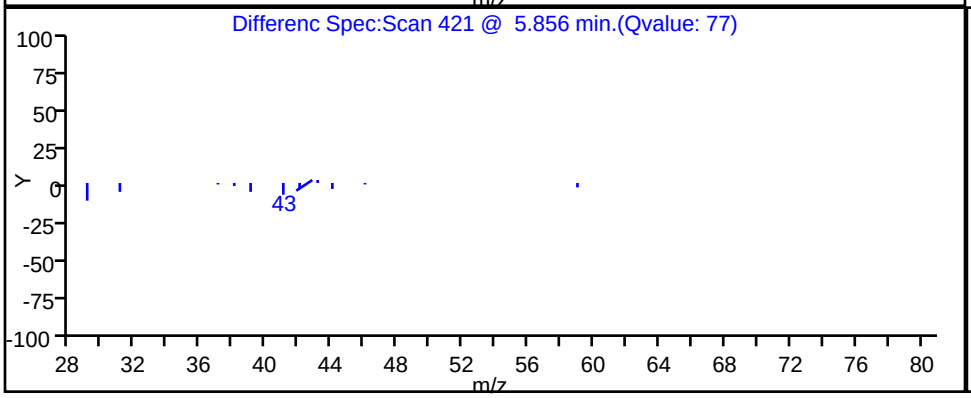


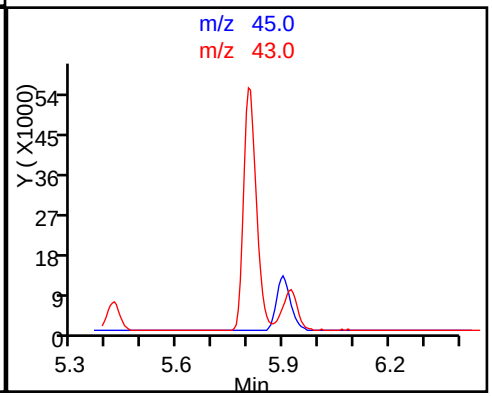












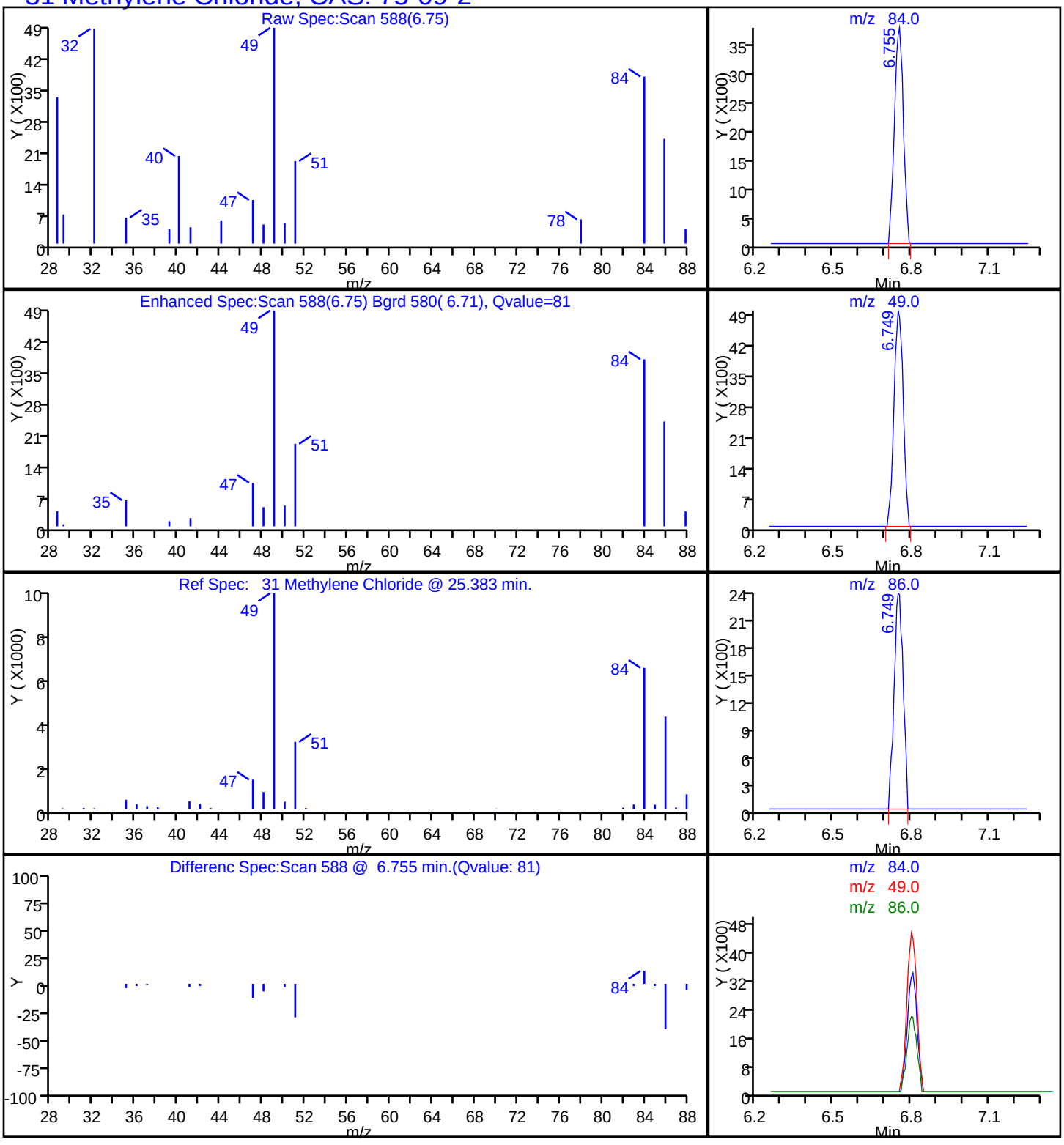
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

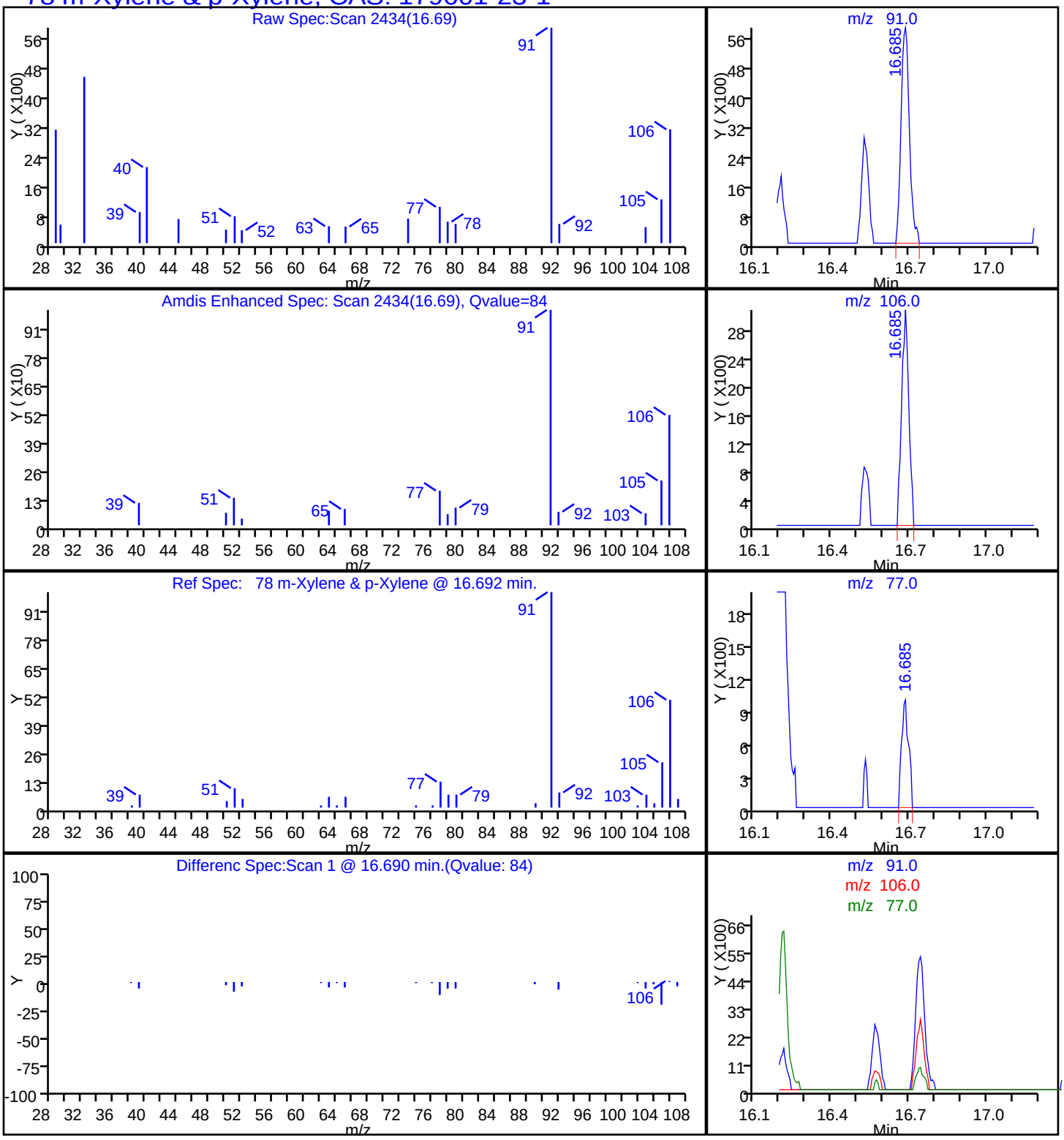


Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D				
Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



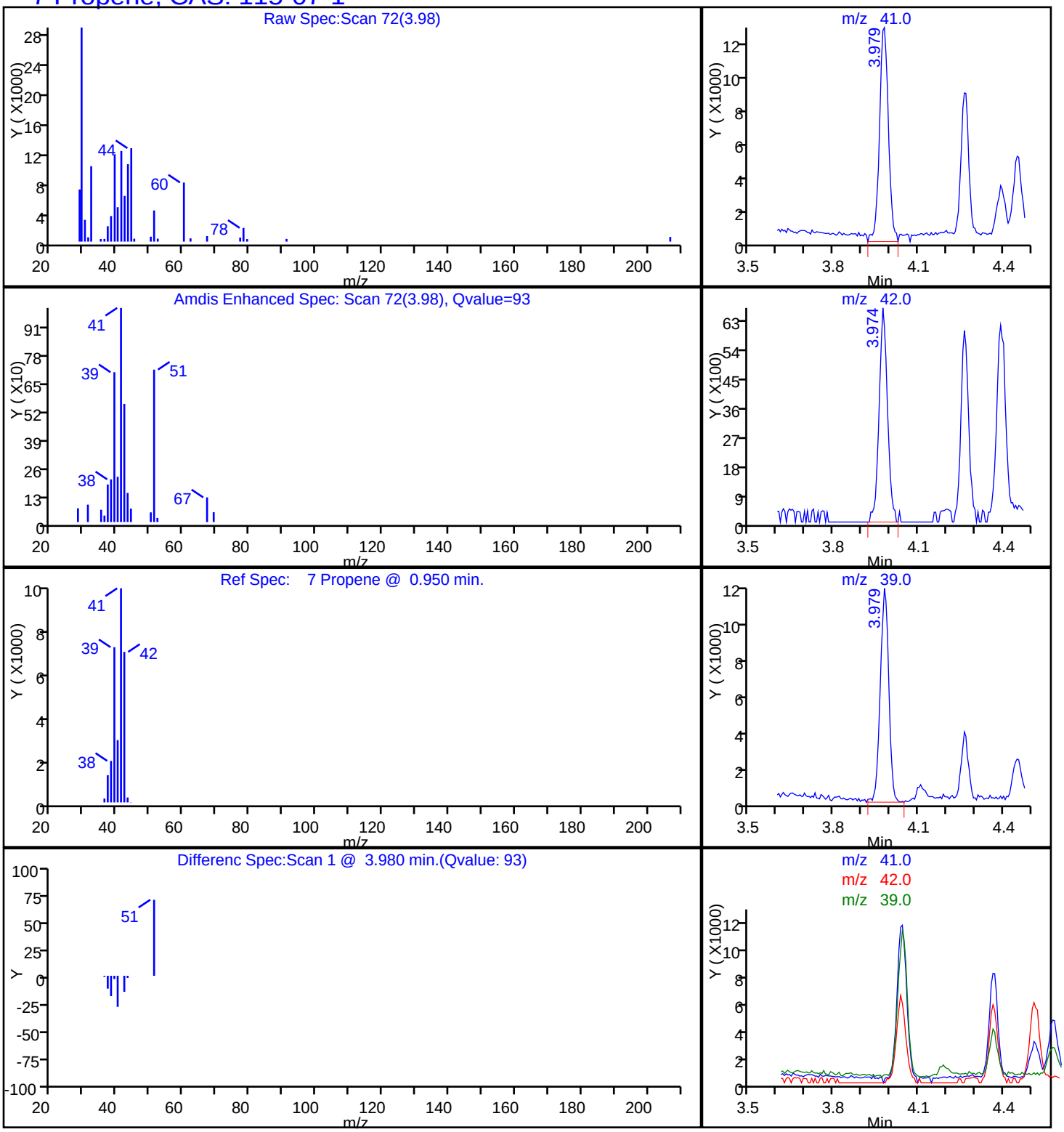
Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



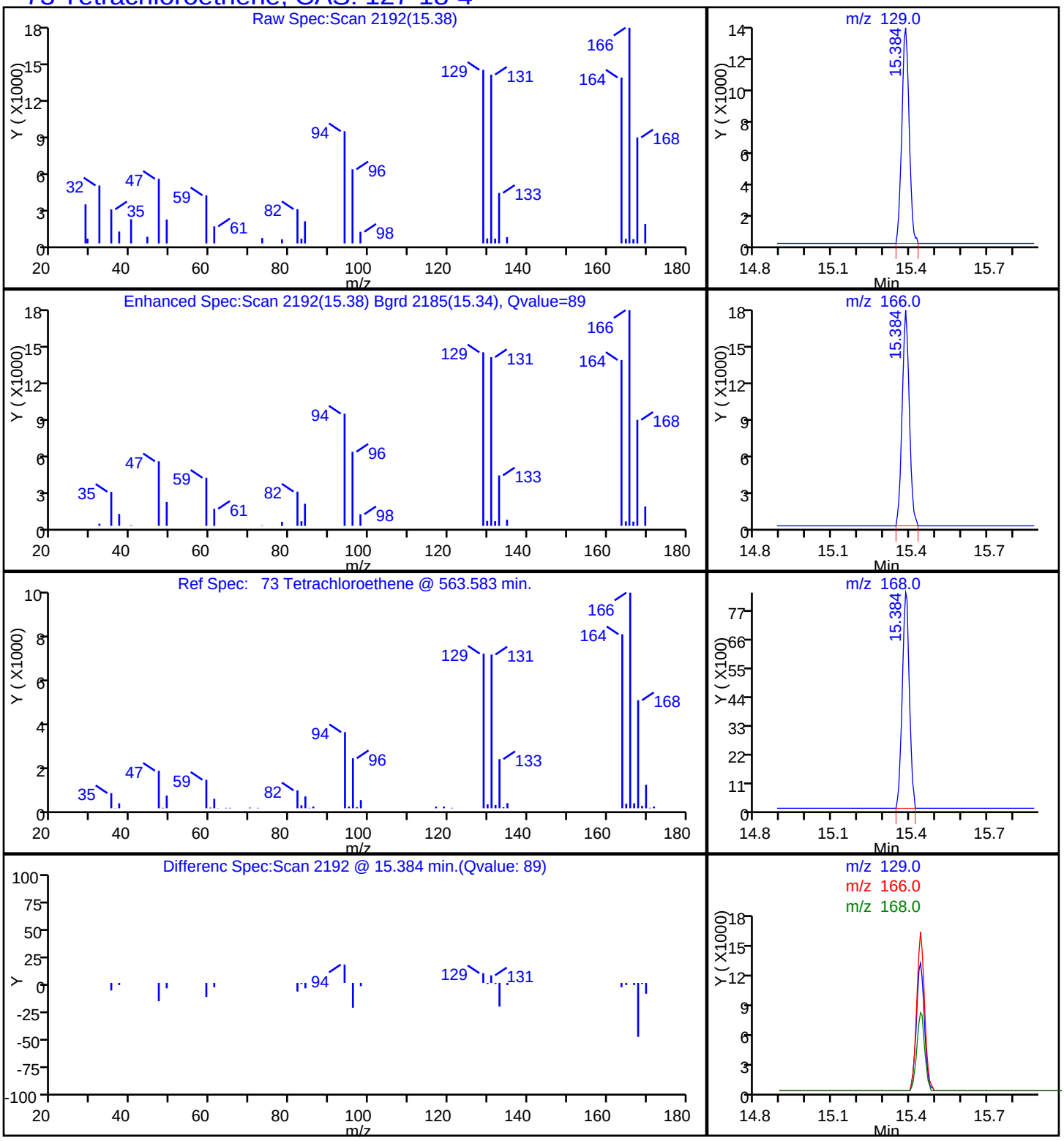
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4

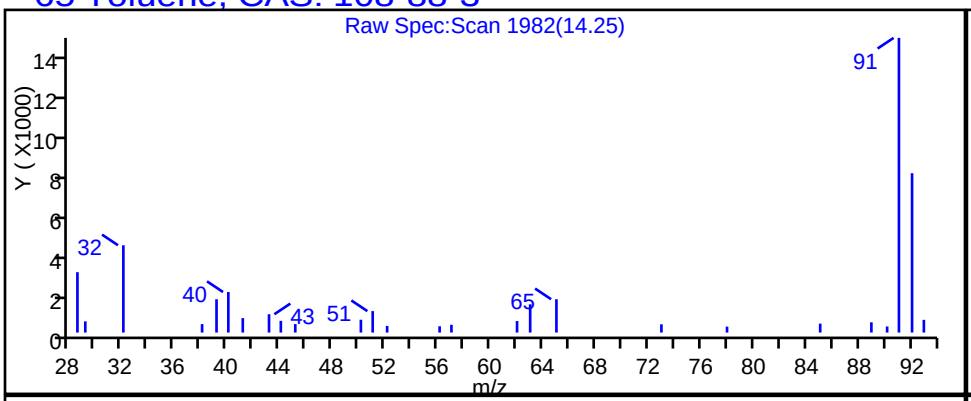


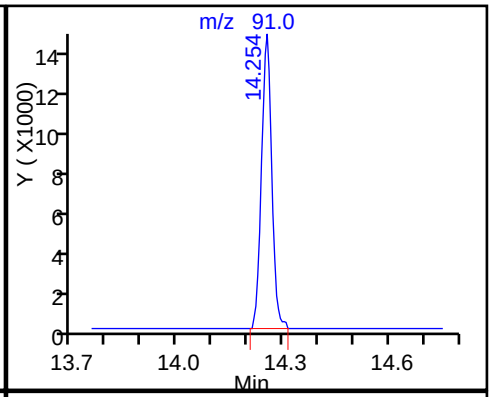
Report Date: 19-Mar-2014 13:04:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

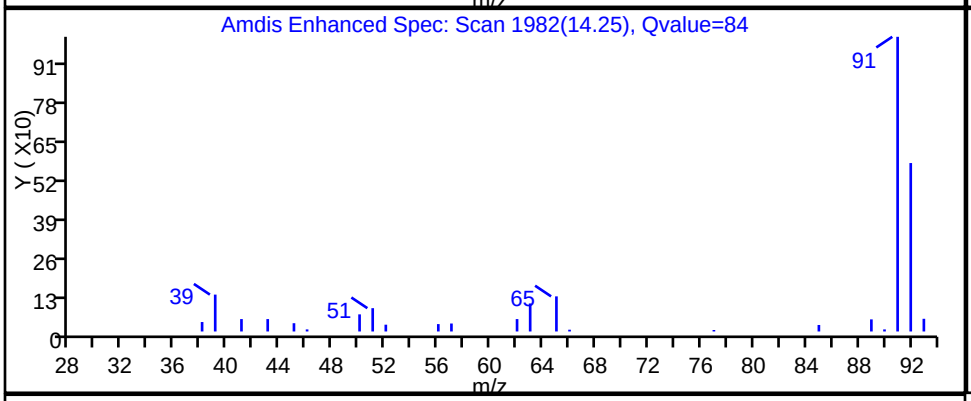
TestAmerica Knoxville

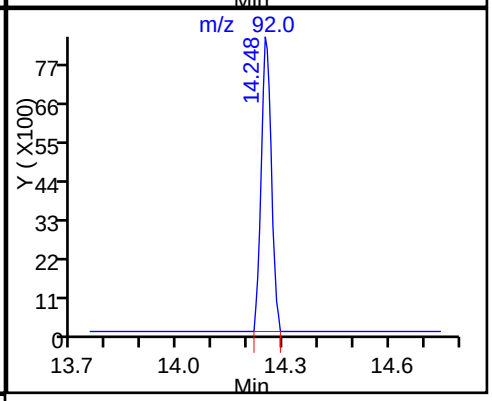
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D				
Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

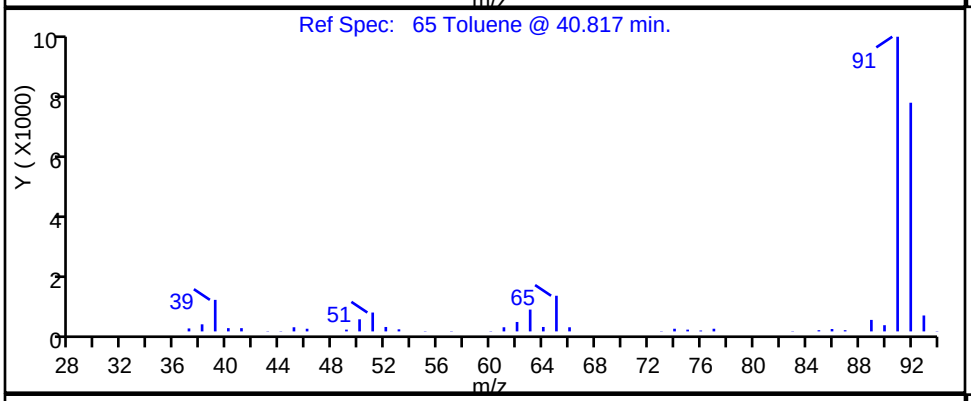
65 Toluene, CAS: 108-88-3

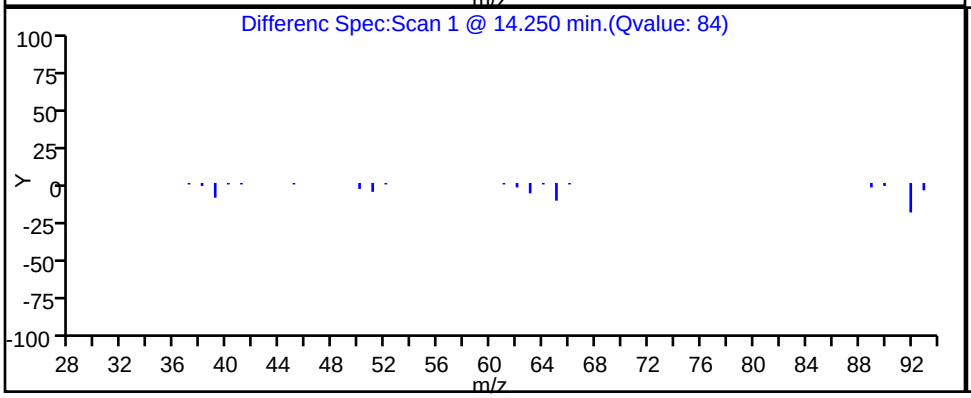


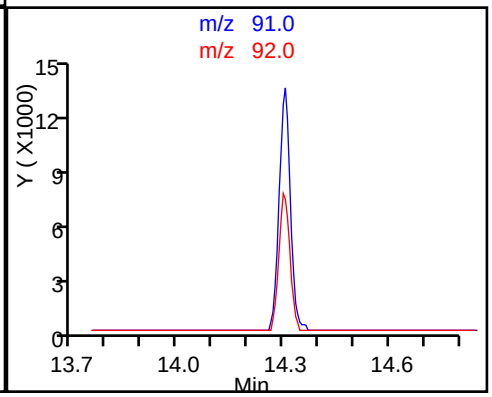












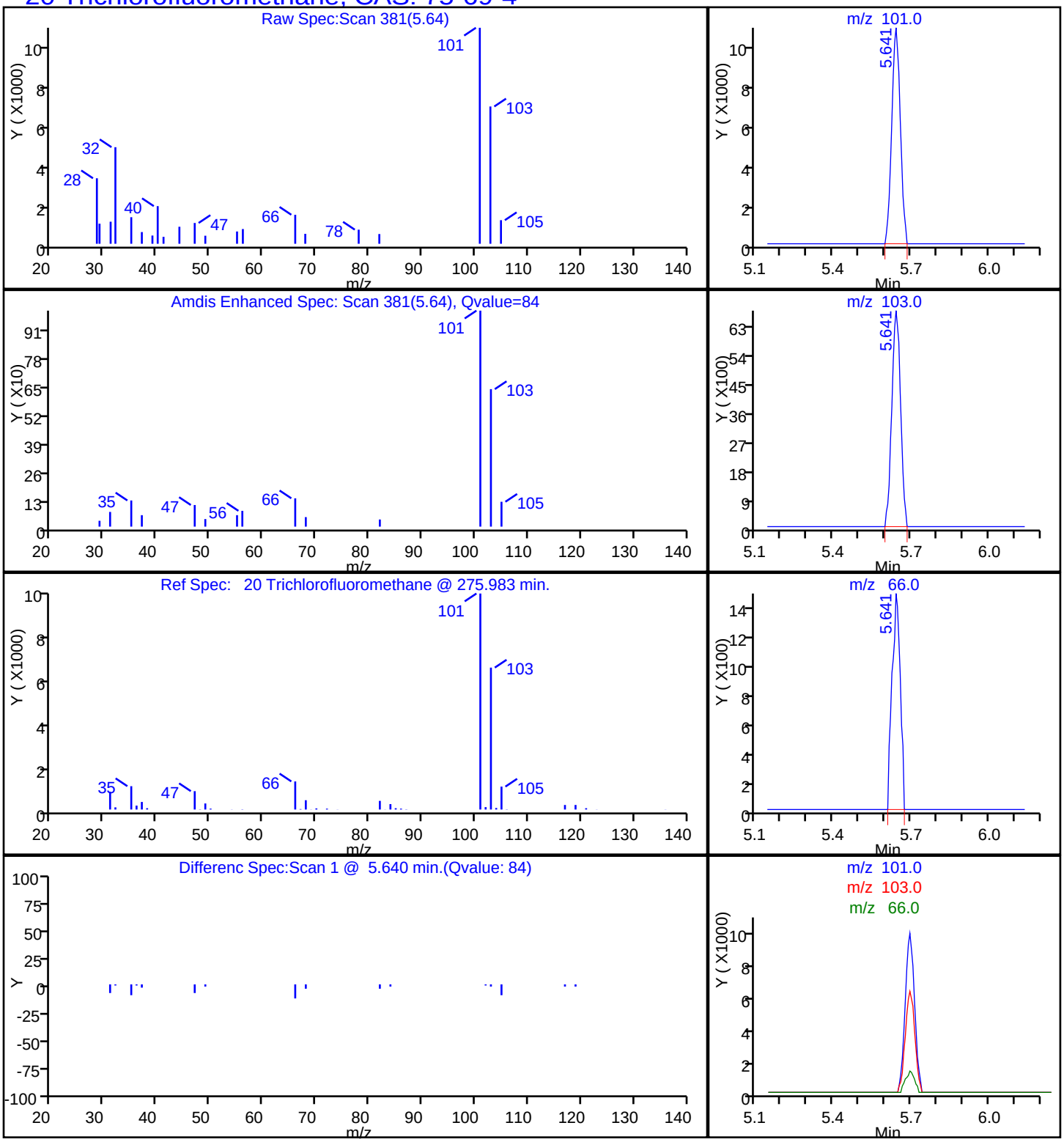
Report Date: 19-Mar-2014 13:04:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date:	19-Mar-2014 03:20:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-6	Lab Sample ID:	140-1063-6		
Client ID:	AMB-4				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8

Matrix: Air Lab File ID: JC18P210.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.15	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.75	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.25		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.16	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60		0.50	0.045
67-64-1	Acetone	58.08	4.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8

Matrix: Air Lab File ID: JC18P210.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.16	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.57		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.072	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	53		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.38		0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.29	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	3.6		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.7		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.68		0.20	0.061
115-07-1	Propene	42.08	0.97	cn	0.50	0.077
100-42-5	Styrene	104.15	0.14	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.22		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.4		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8

Matrix: Air Lab File ID: JC18P210.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8

Matrix: Air Lab File ID: JC18P210.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.75	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.68	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.88		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.78	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.5		2.0	0.18
67-64-1	Acetone	58.08	11	J	12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 | Lab Sample ID: 140-1063-8

Matrix: Air | Lab File ID: JC18P210.D

Analysis Method: TO-15 | Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) | Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 971 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.78	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.25	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	99		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.7		0.87	0.30
142-82-5	Heptane	100.21	0.79	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.0	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.8		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	13		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	7.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	3.0		0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	0.61	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.5		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8

Matrix: Air Lab File ID: JC18P210.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:00

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D
Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8
Client ID: PCV-IA2-B7
Sample Type: Client
Inject. Date: 19-Mar-2014 04:13:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-8
Misc. Info.: J031814,TO15,,140-0000527-016
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:05:07

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	345221	4.00	
*	2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1647743	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1373616	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	959823	3.95	
	7 Propene	41	3.981	3.971	0.010	92	40912	0.3865	
	8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	61620	0.1802	
	9 Chloromethane	52	4.229	4.229	0.0	97	8899	0.2291	
	17 Ethanol	31	5.122	5.116	0.006	95	582144	21.0	
	19 2-Methylbutane	43	5.407	5.407	0.0	92	63810	0.4352	
	20 Trichlorofluoromethane	101	5.644	5.644	0.0	87	26236	0.0873	
	23 Acetone	58	5.767	5.767	0.0	99	90633	1.85	
	24 Isopropyl alcohol	45	5.859	5.848	0.011	91	122645	0.9465	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.580	0.0	61	5459	0.0262	
	31 Methylene Chloride	84	6.752	6.757	-0.005	96	134670	1.46	
	35 2-Methylpentane	43	7.623	7.623	0.0	91	26530	0.0996	
	39 2-Butanone (MEK)	72	8.597	8.586	0.011	95	9854	0.3015	
	40 Hexane	56	8.635	8.635	0.0	75	10723	0.1155	
	43 Chloroform	83	9.388	9.393	-0.005	53	12779	0.0635	
	48 Benzene	78	11.023	11.023	0.0	94	43857	0.1551	
	49 Cyclohexane	69	11.023	11.034	-0.011	32	1601	0.0287	
	50 Carbon tetrachloride	117	11.050	11.050	0.0	85	6447	0.0276	
	53 Isooctane	57	11.755	11.760	-0.005	90	28058	0.0581	
	54 n-Heptane	71	12.115	12.120	-0.005	79	7682	0.0768	
	62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	95	41691	0.2414	
	65 Toluene	91	14.251	14.256	-0.005	93	142893	0.5608	
	73 Tetrachloroethene	129	15.386	15.386	0.0	85	10531	0.0887	
	76 Ethylbenzene	91	16.526	16.532	-0.006	89	42824	0.1521	
	78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	99	153277	0.6749	
	80 Styrene	104	17.150	17.150	0.0	70	8954	0.0574	
	82 o-Xylene	91	17.210	17.215	-0.005	96	62836	0.2729	
	88 4-Ethyltoluene	105	18.458	18.447	0.011	41	19479	0.0637	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	81	16330	0.0612	

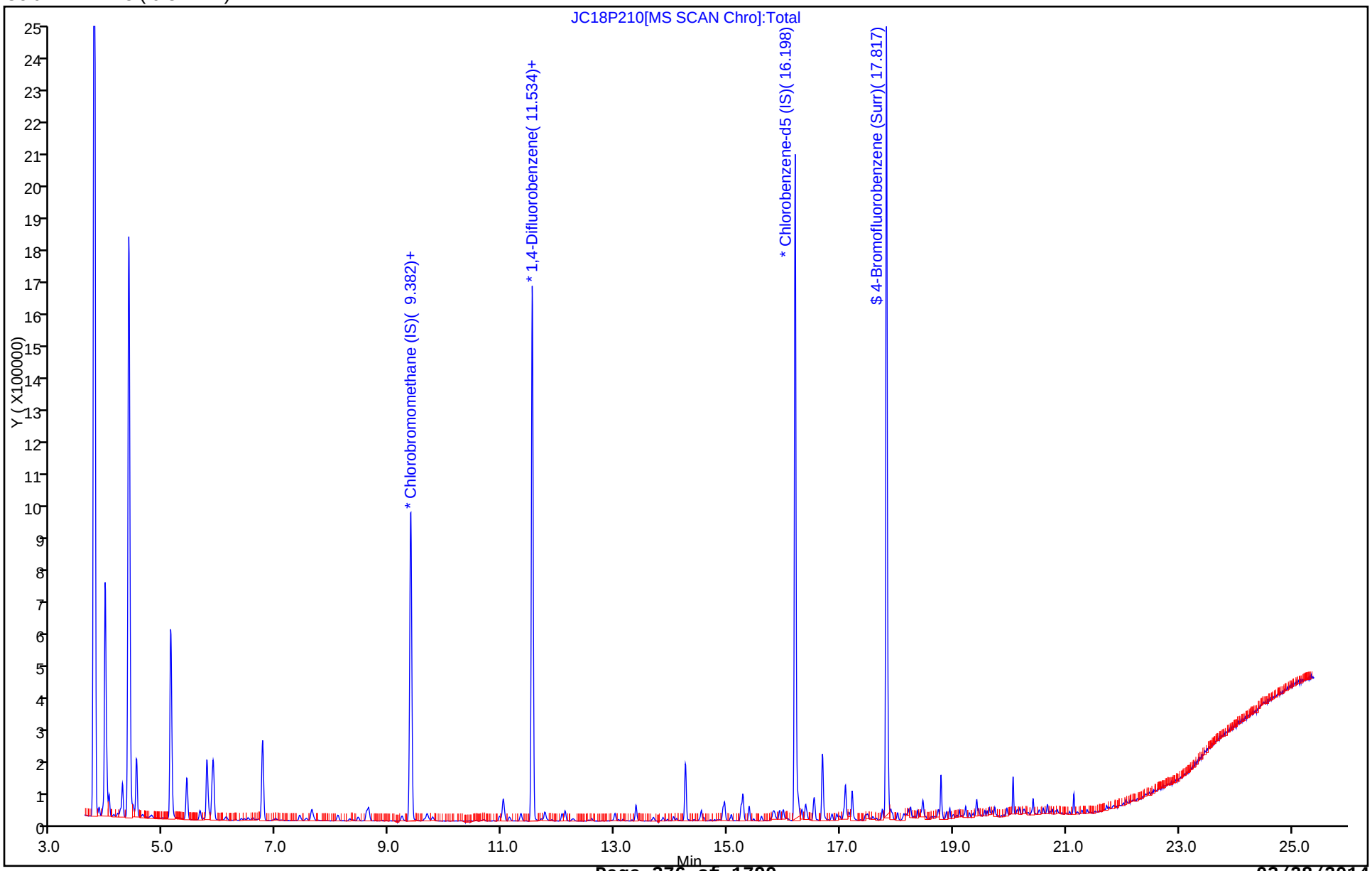
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8	Worklist Smp#:	16
Client ID:	PCV-IA2-B7				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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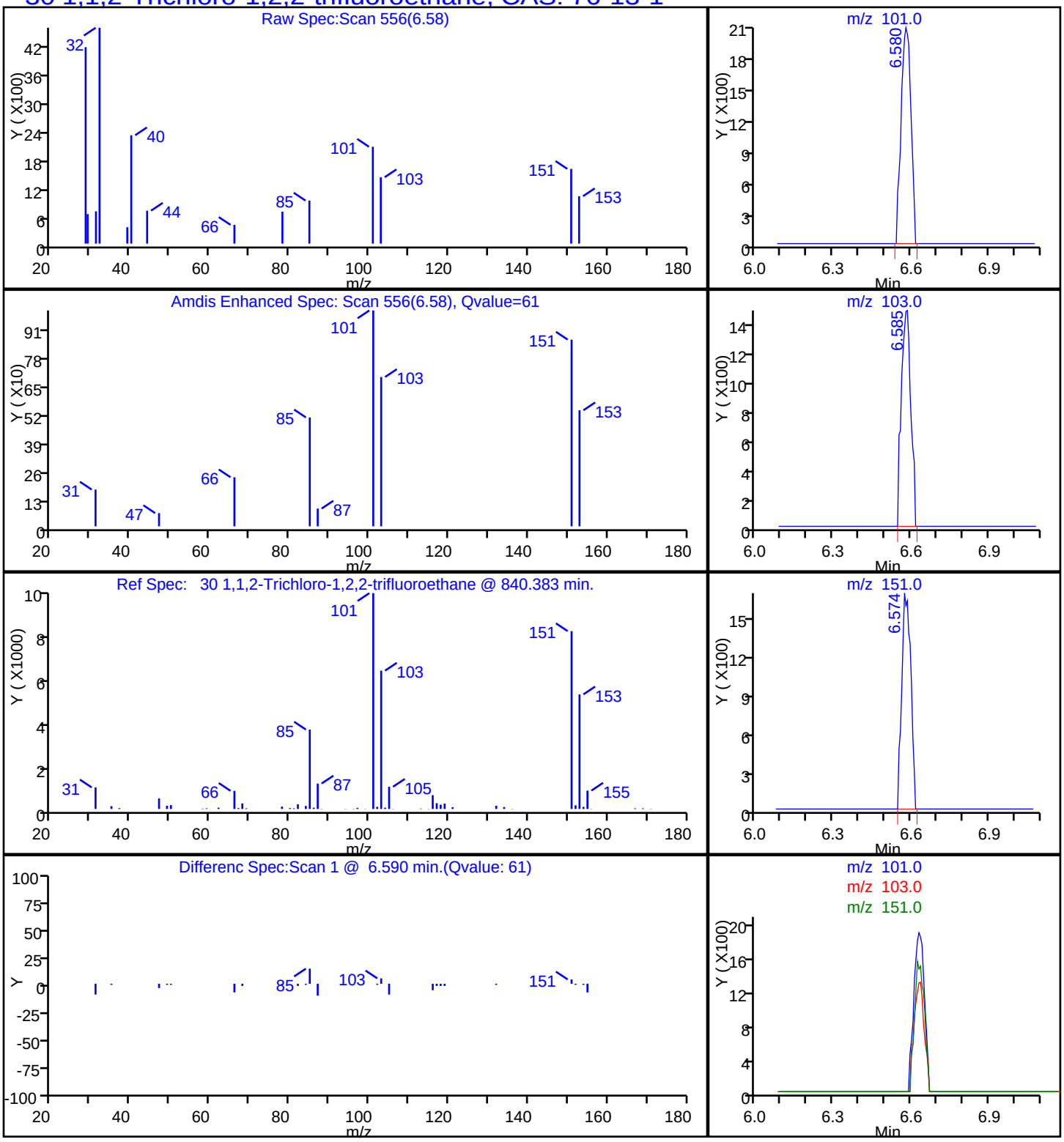
Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ
Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8
Client ID: PCV-IA2-B7
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



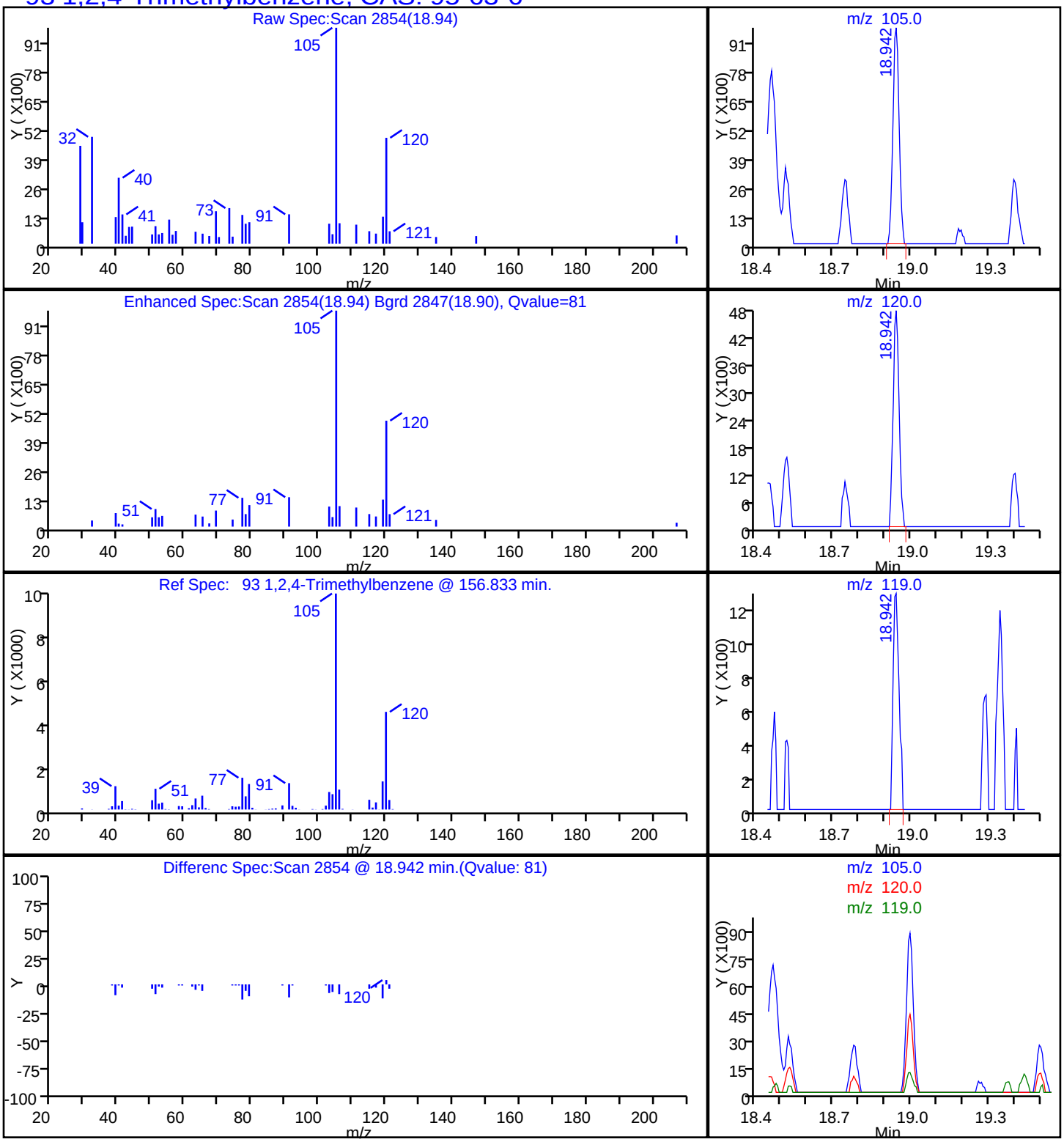
Report Date: 19-Mar-2014 13:05:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 19-Mar-2014 13:05:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

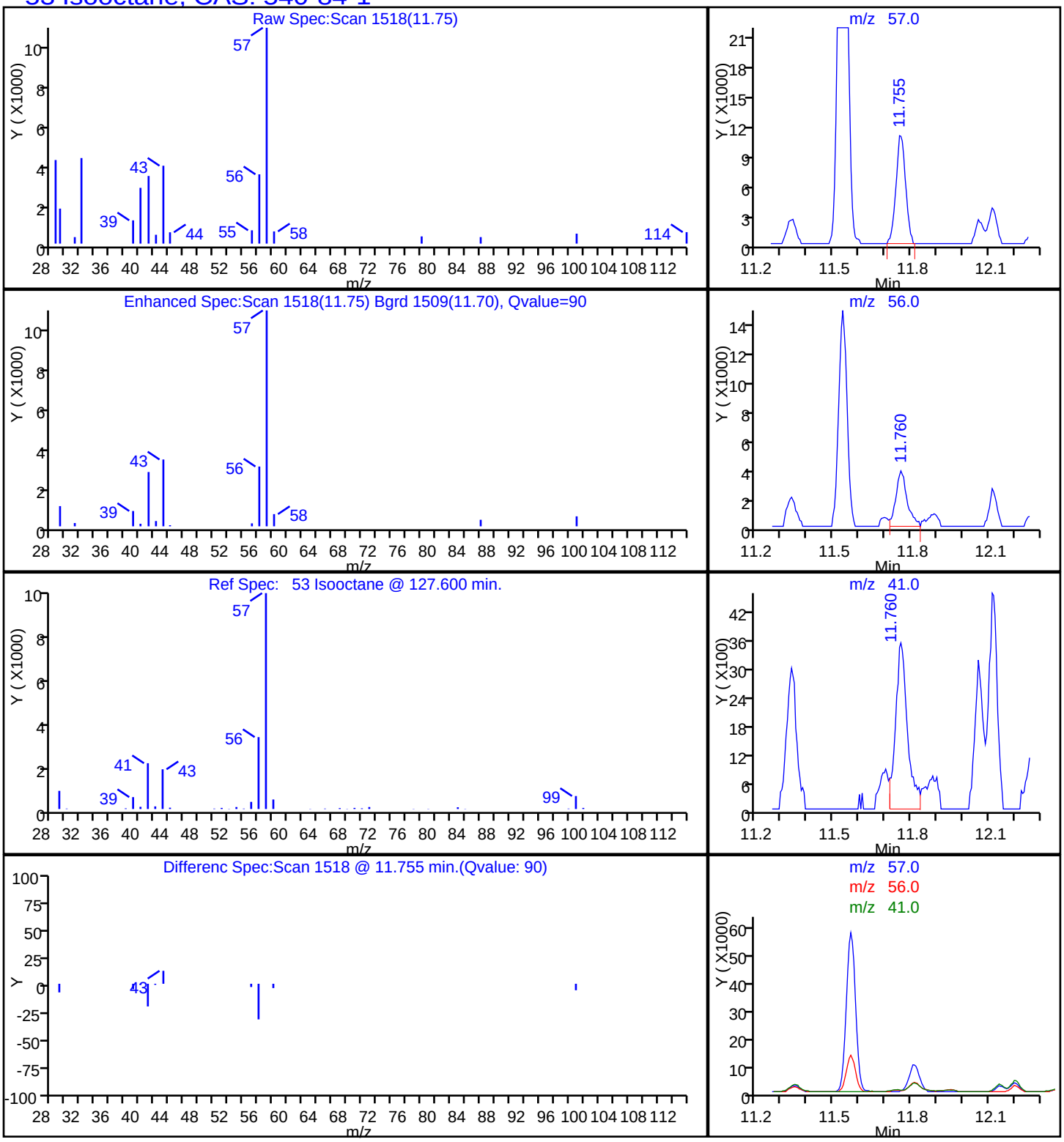
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



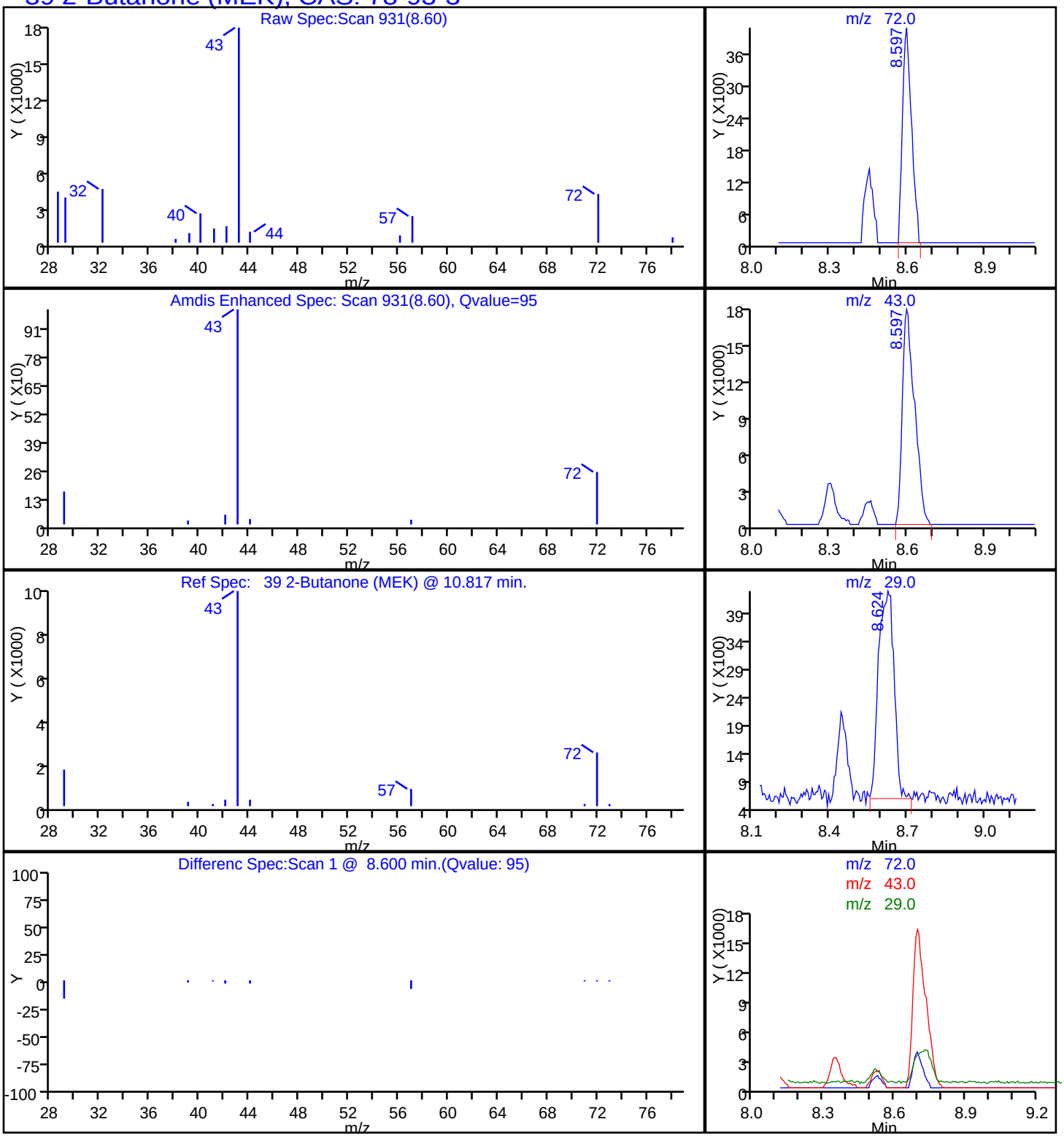
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

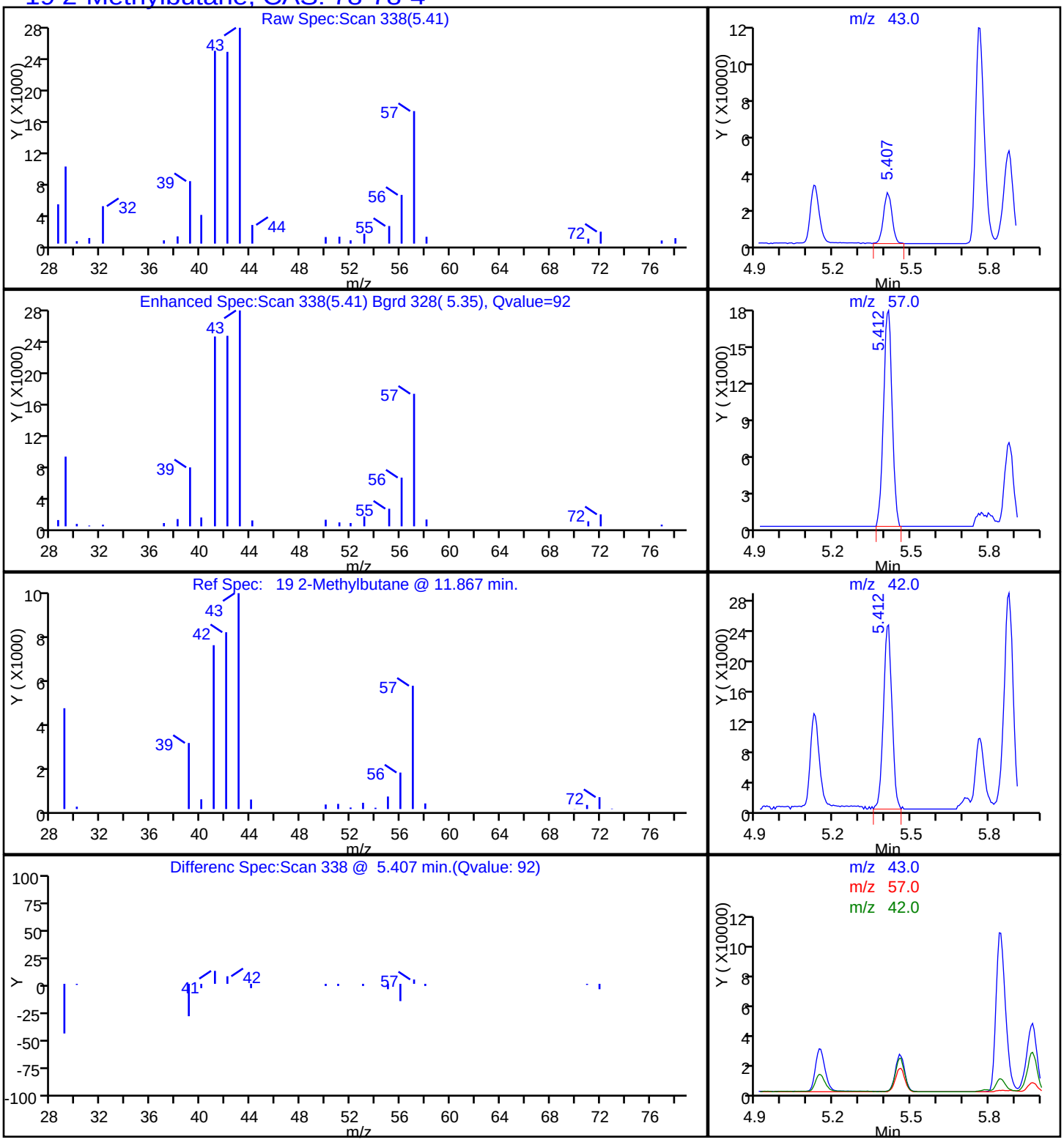
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



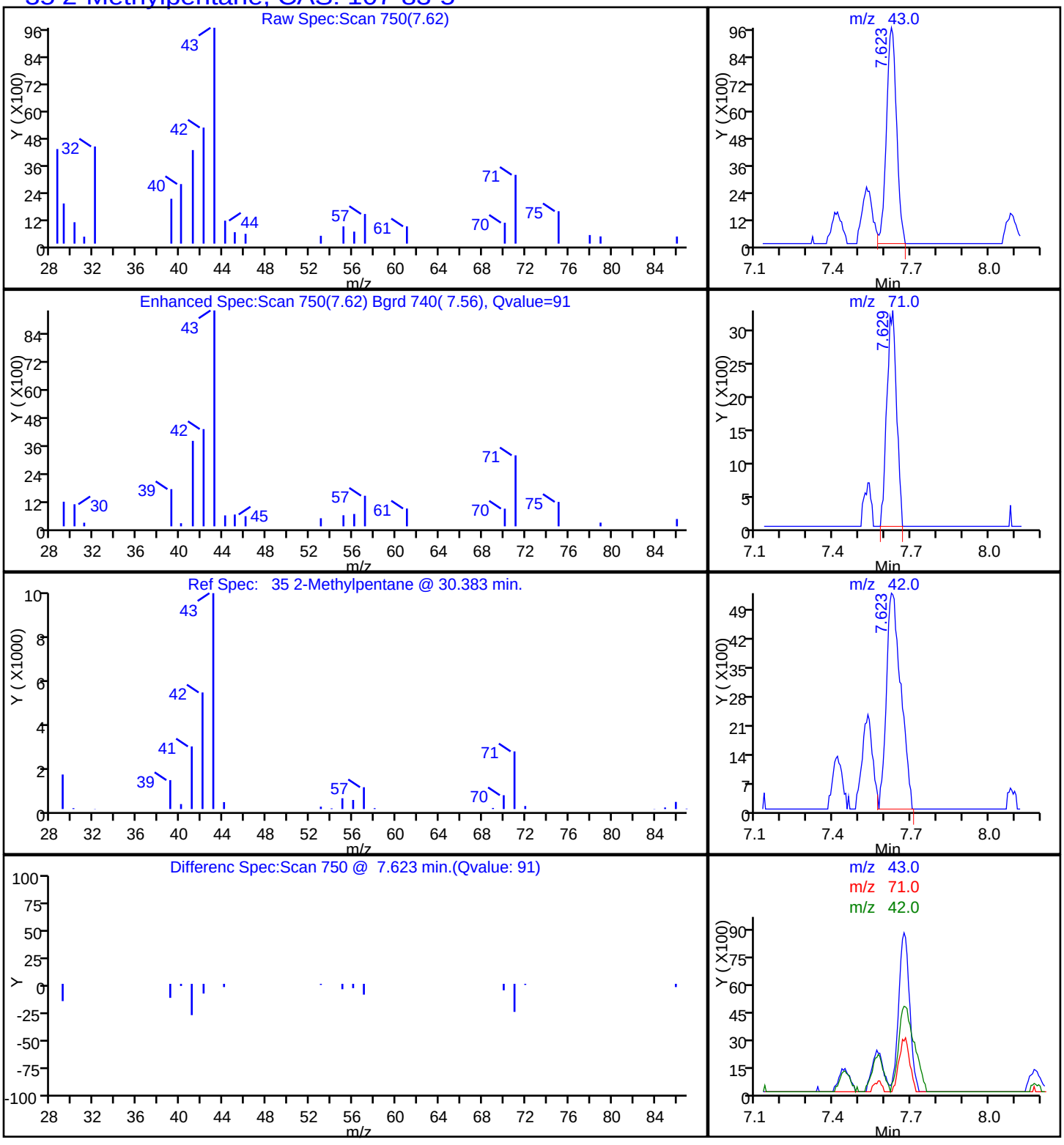
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



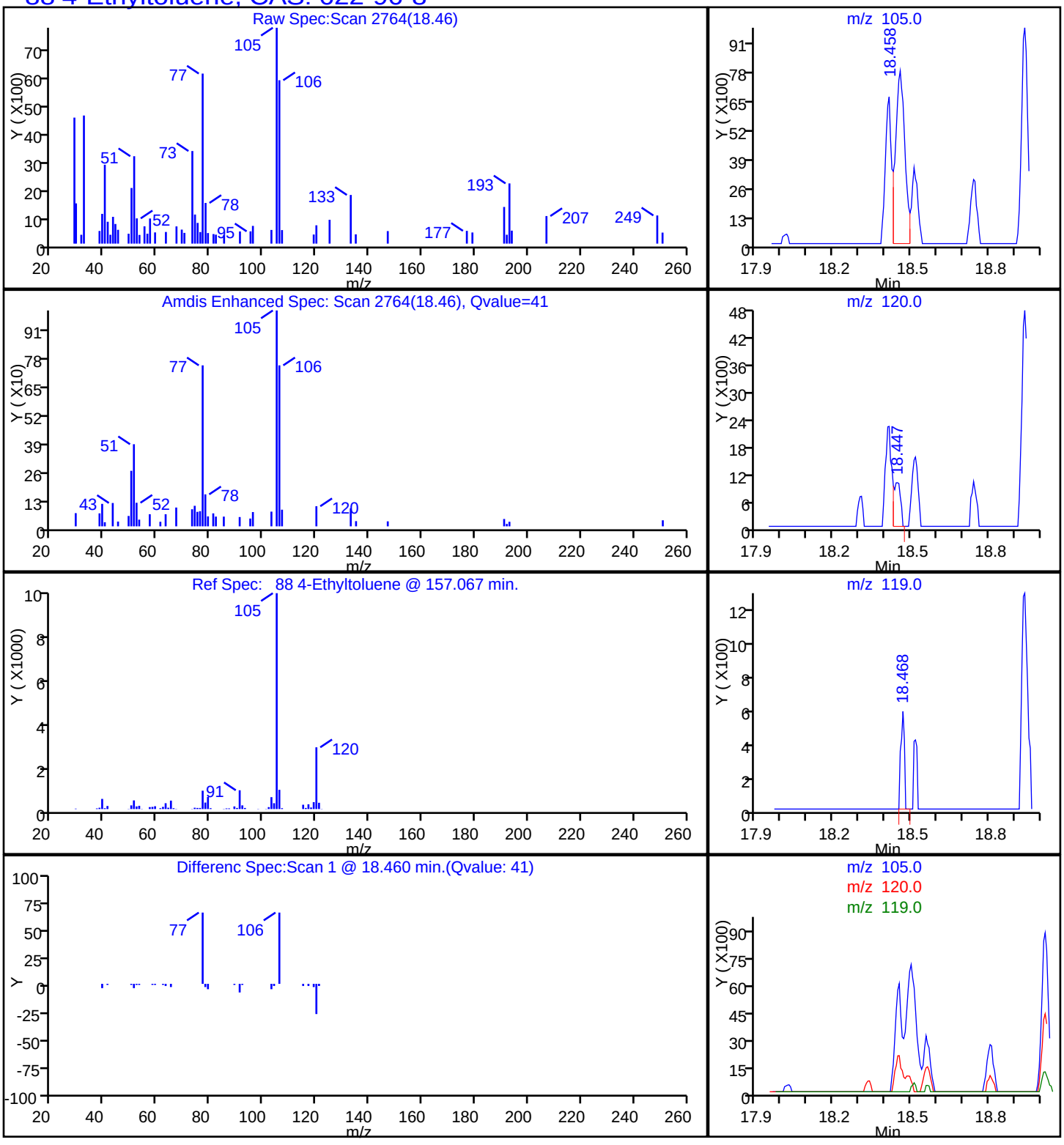
Report Date: 19-Mar-2014 13:05:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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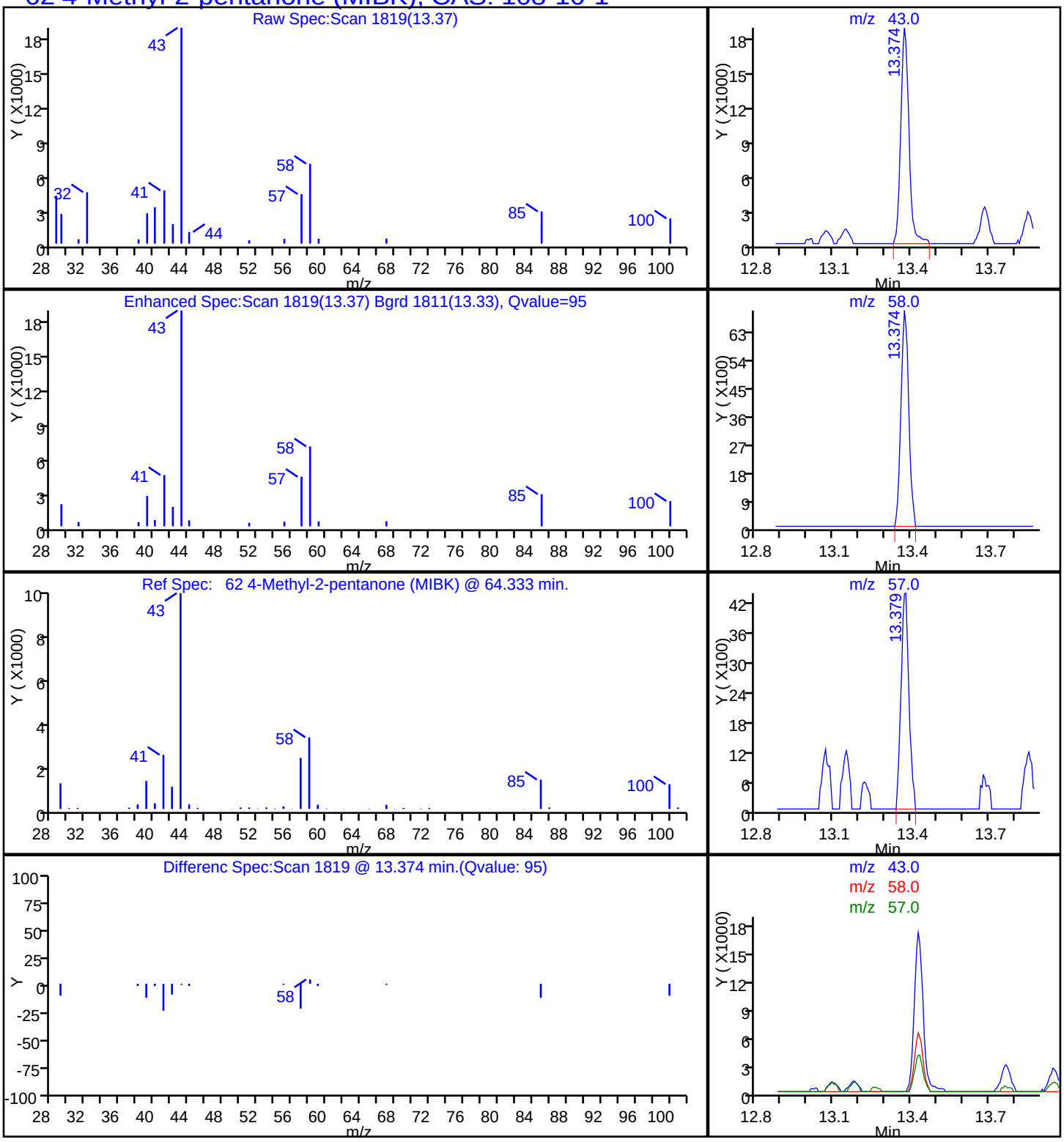
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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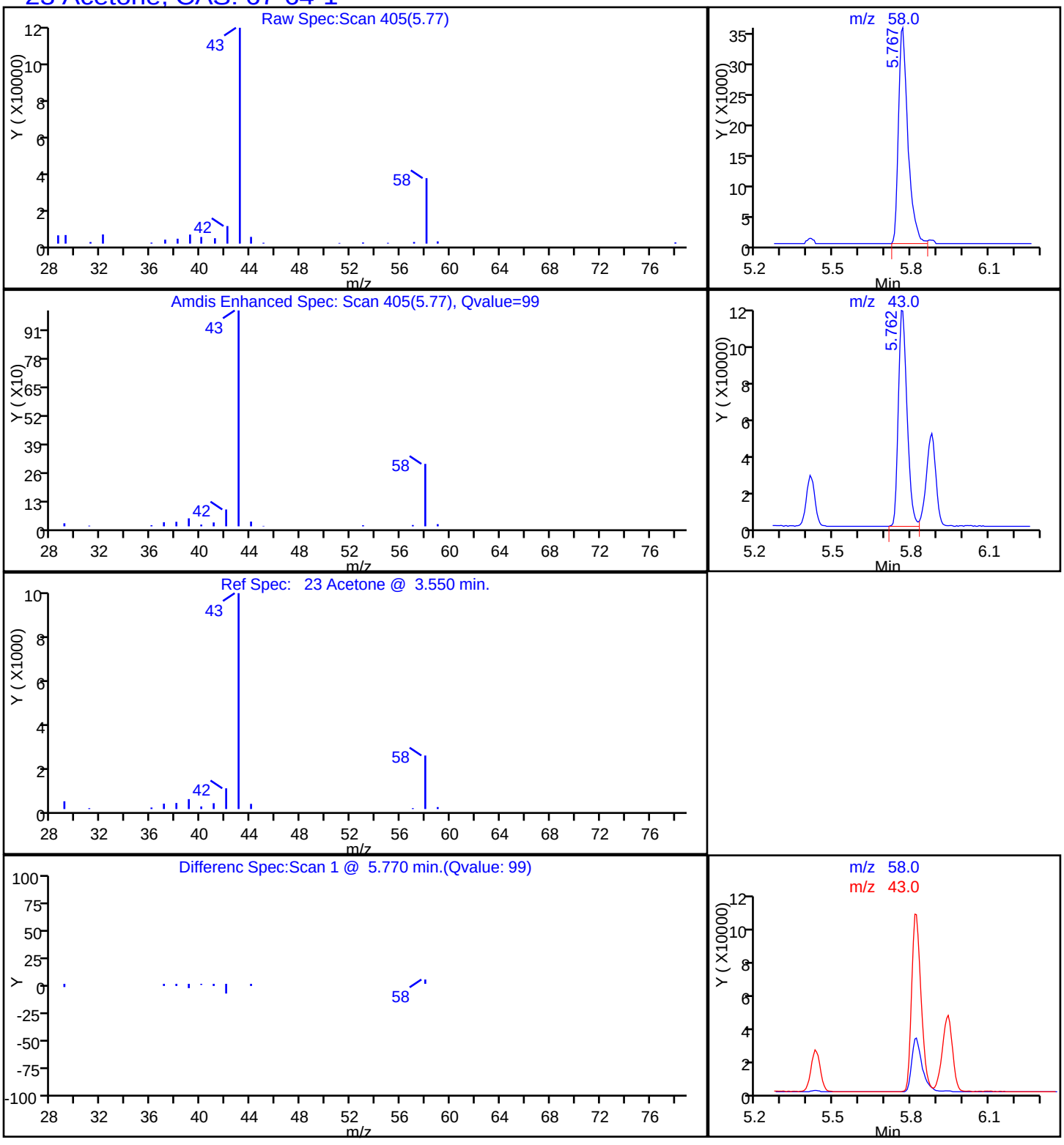
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D				
Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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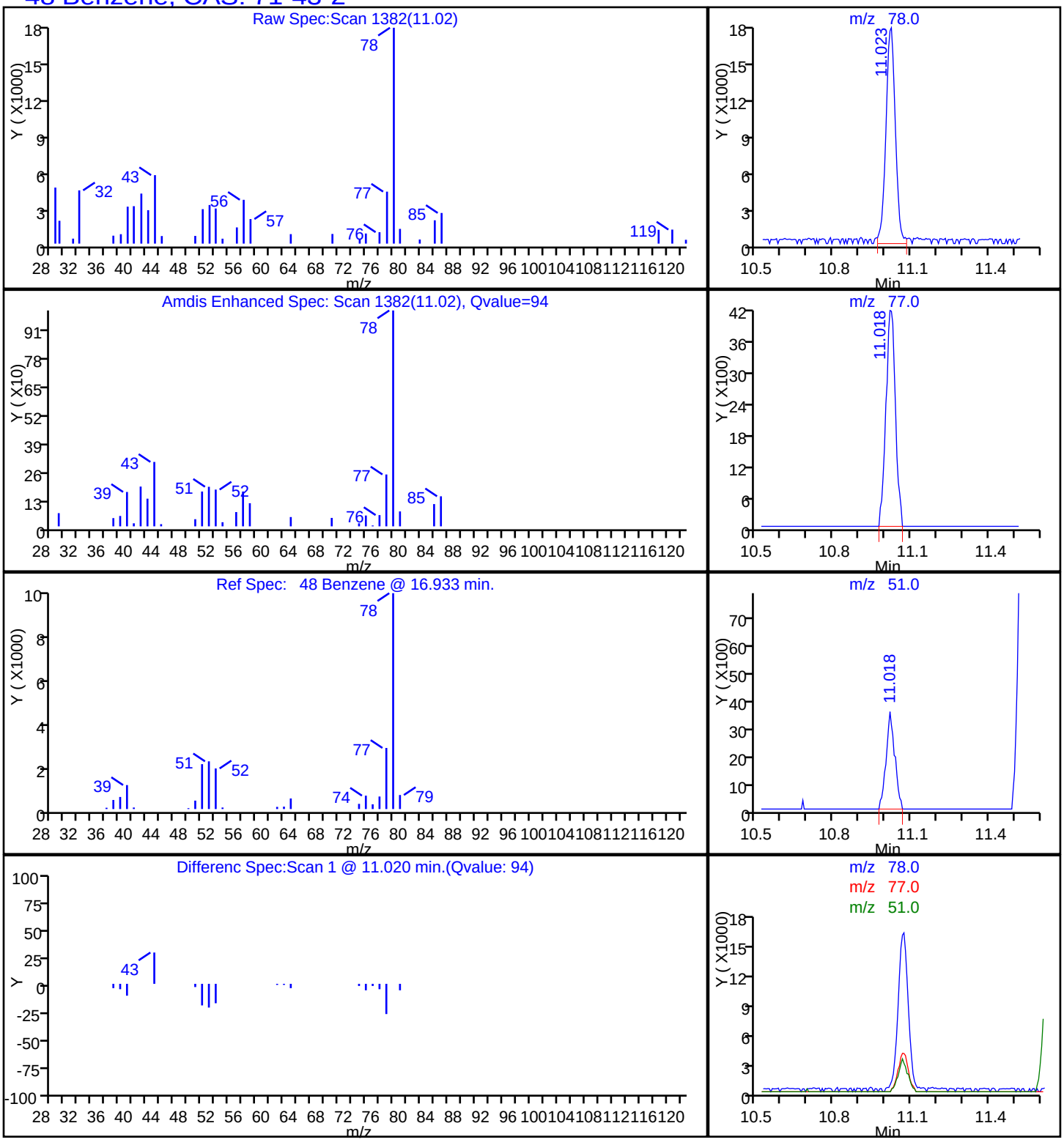
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D				
Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

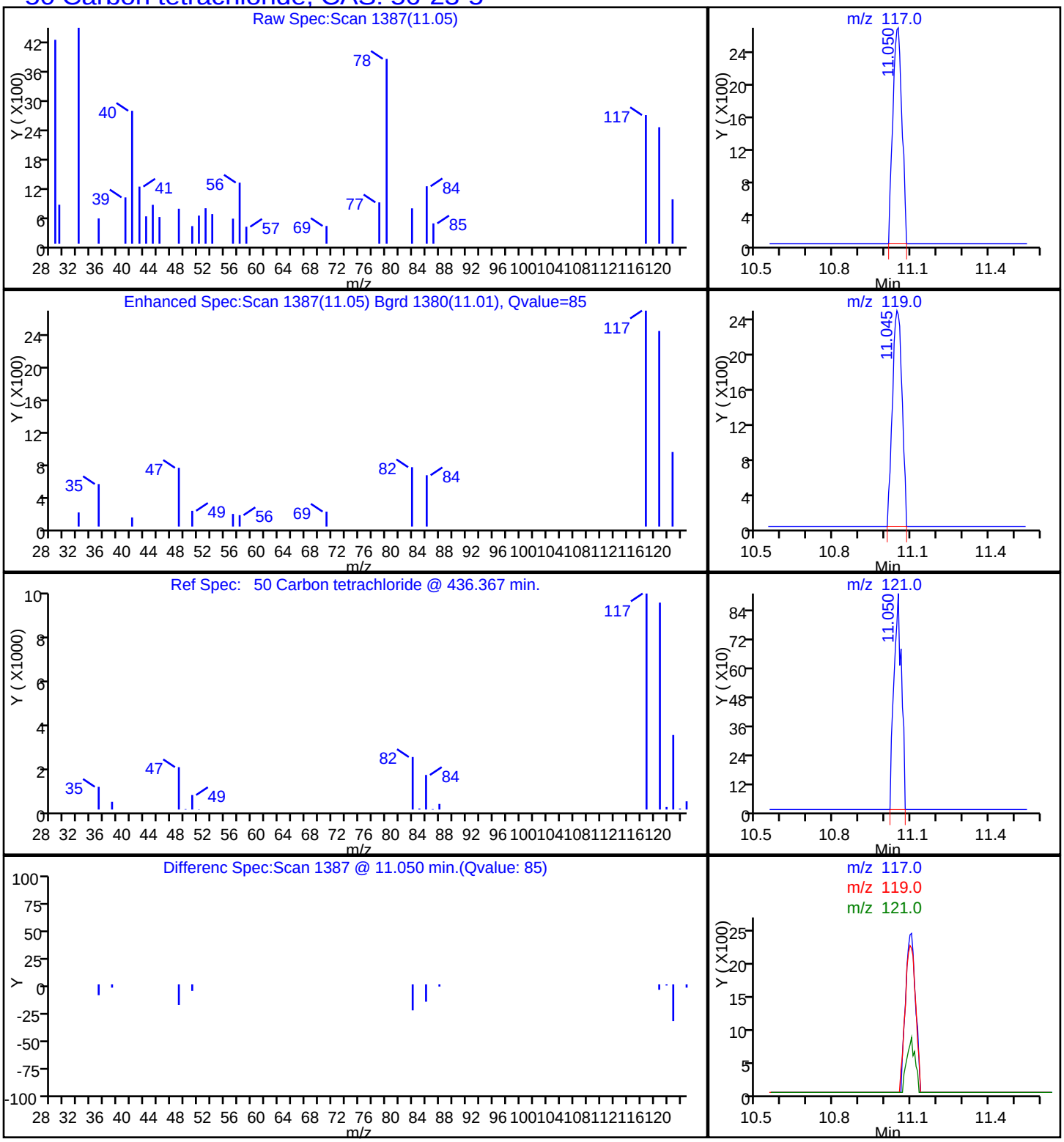
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



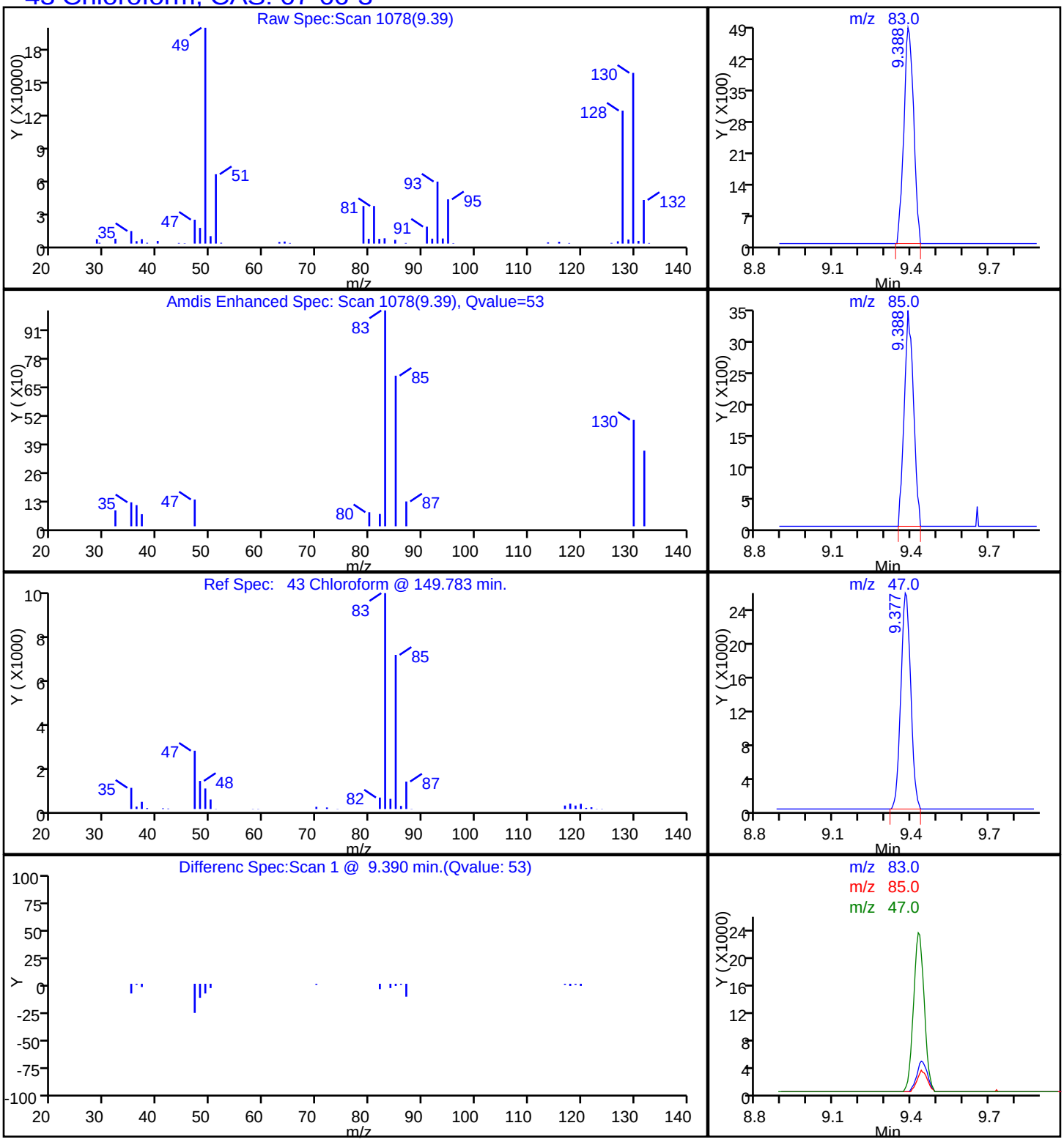
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



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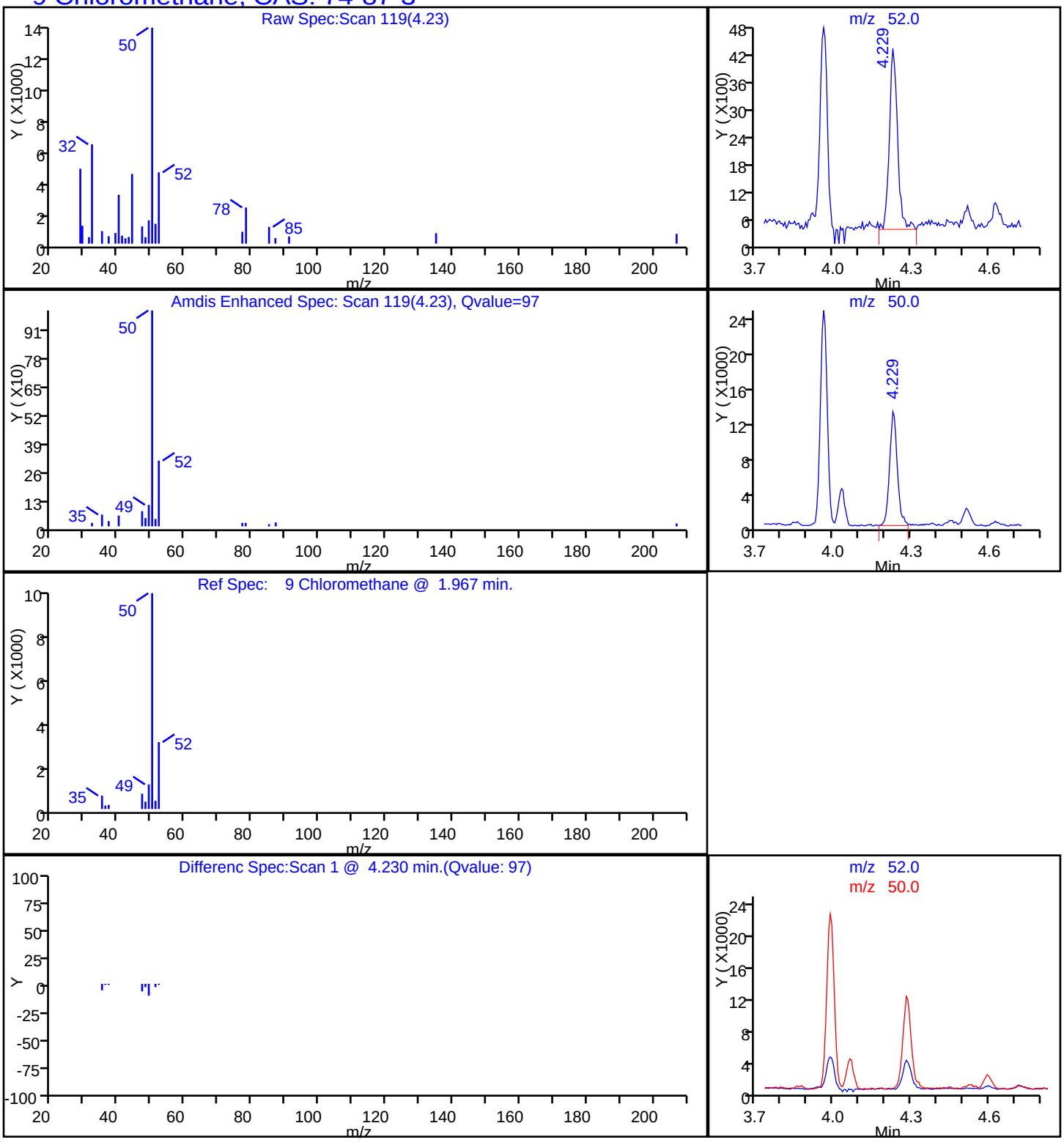
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

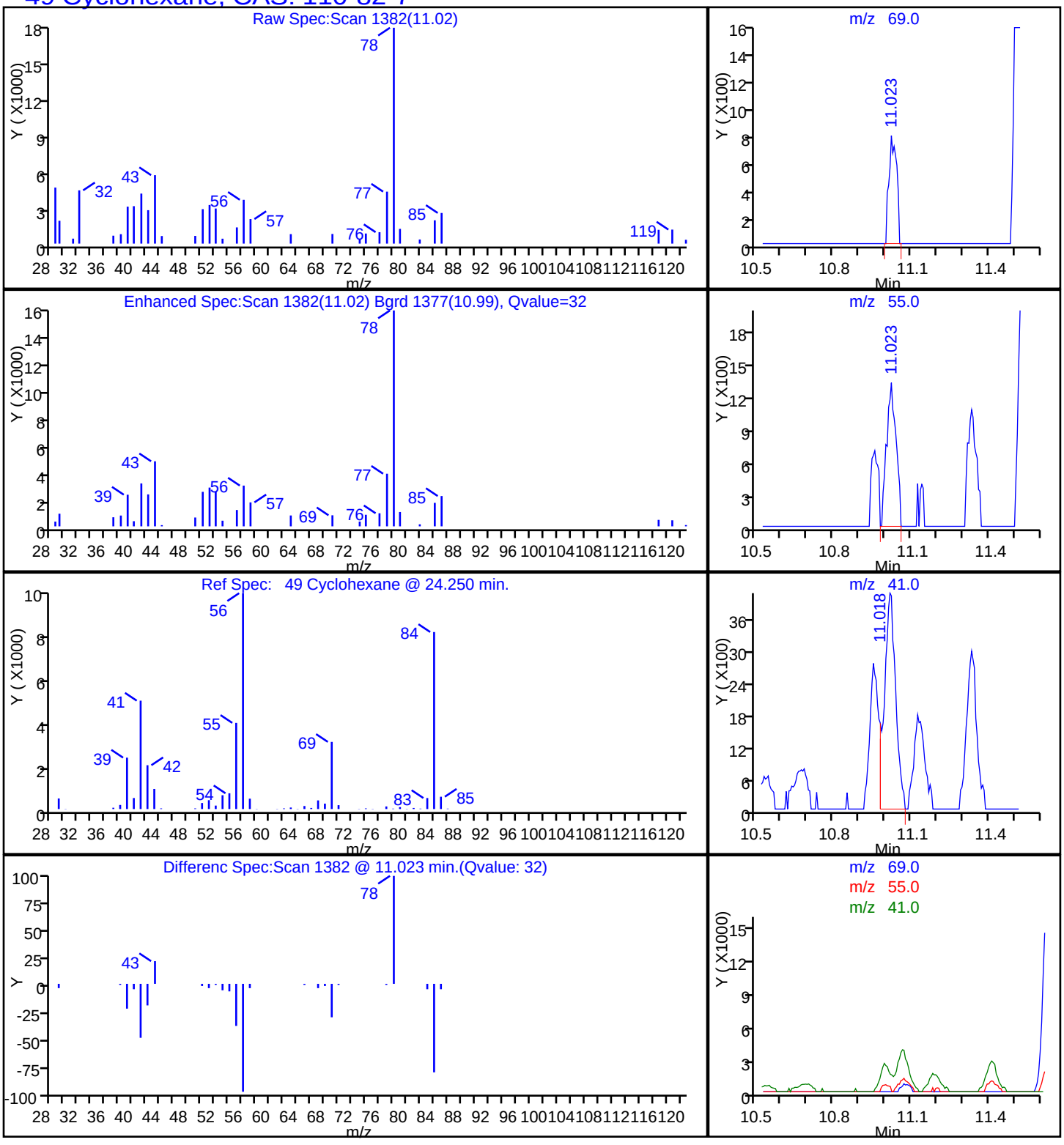
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

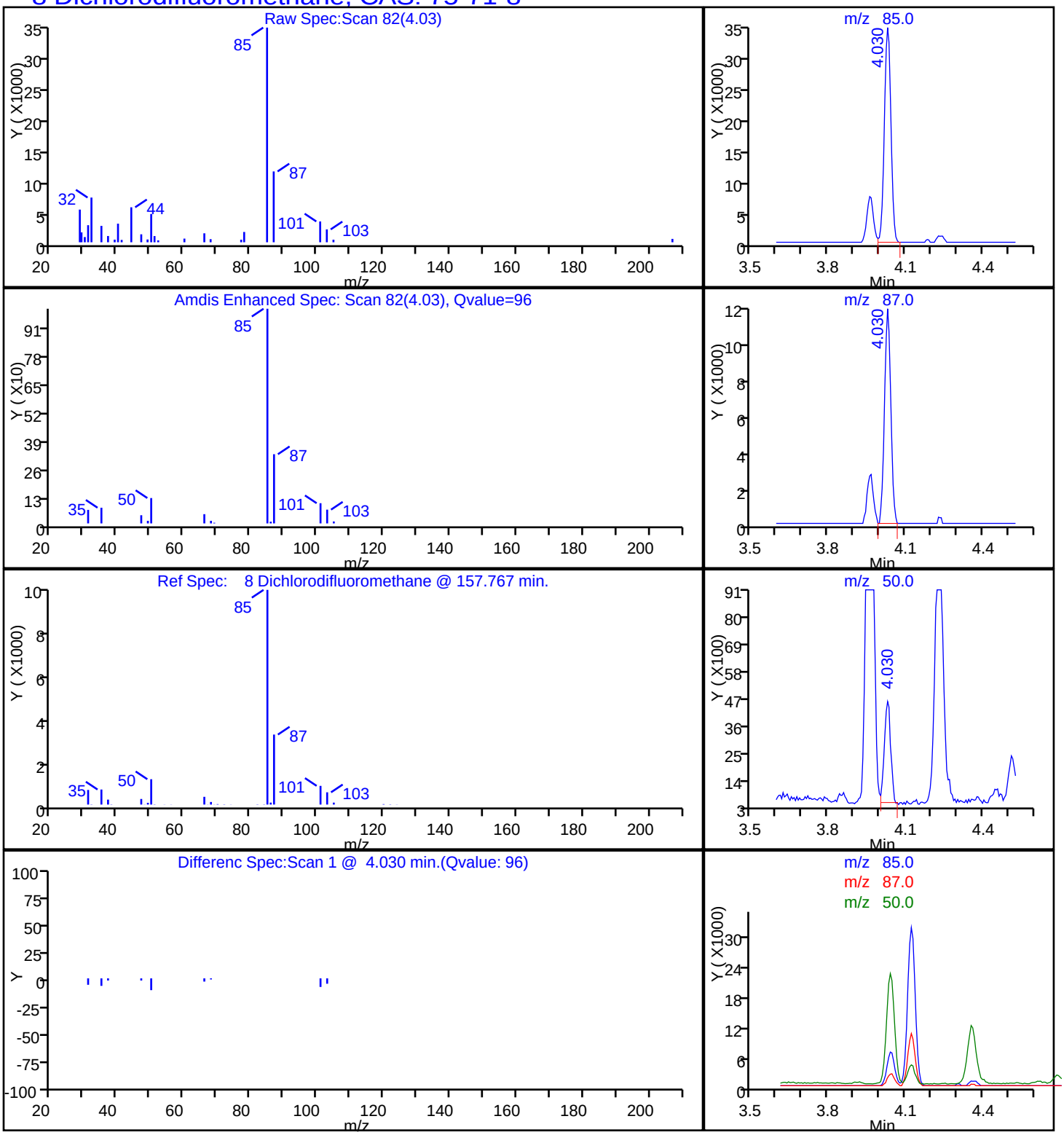
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



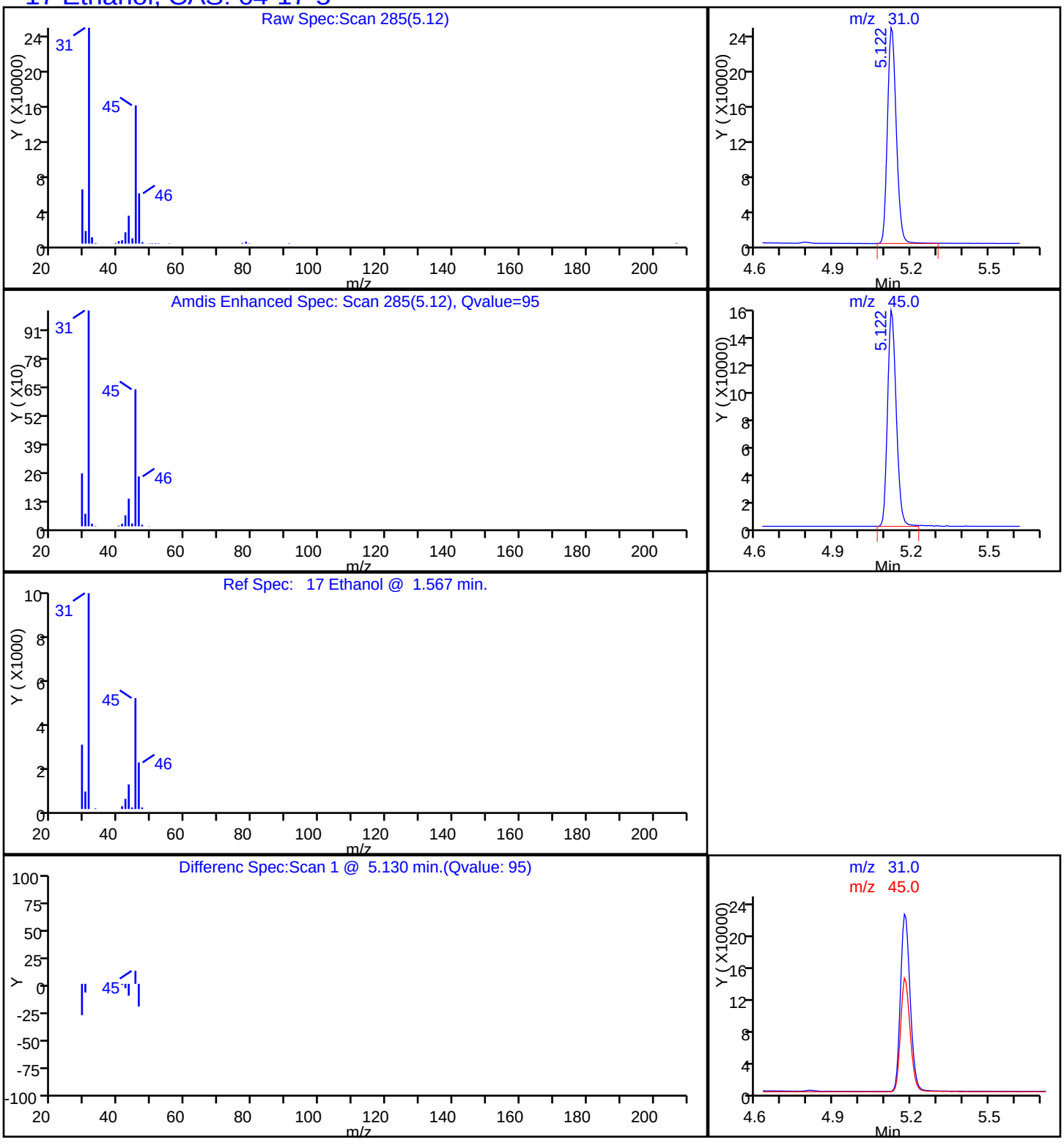
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8
Client ID:	PCV-IA2-B7		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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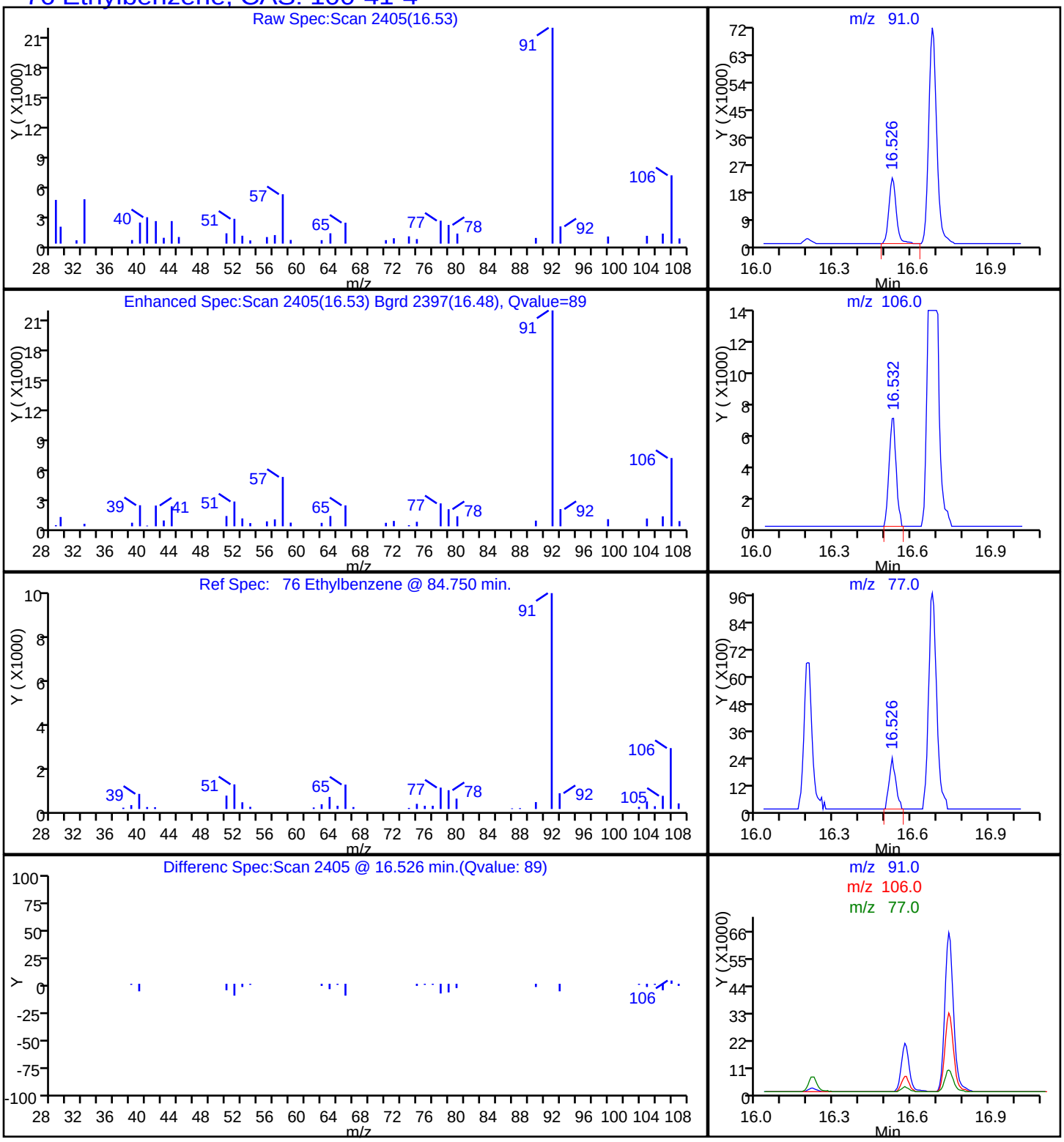
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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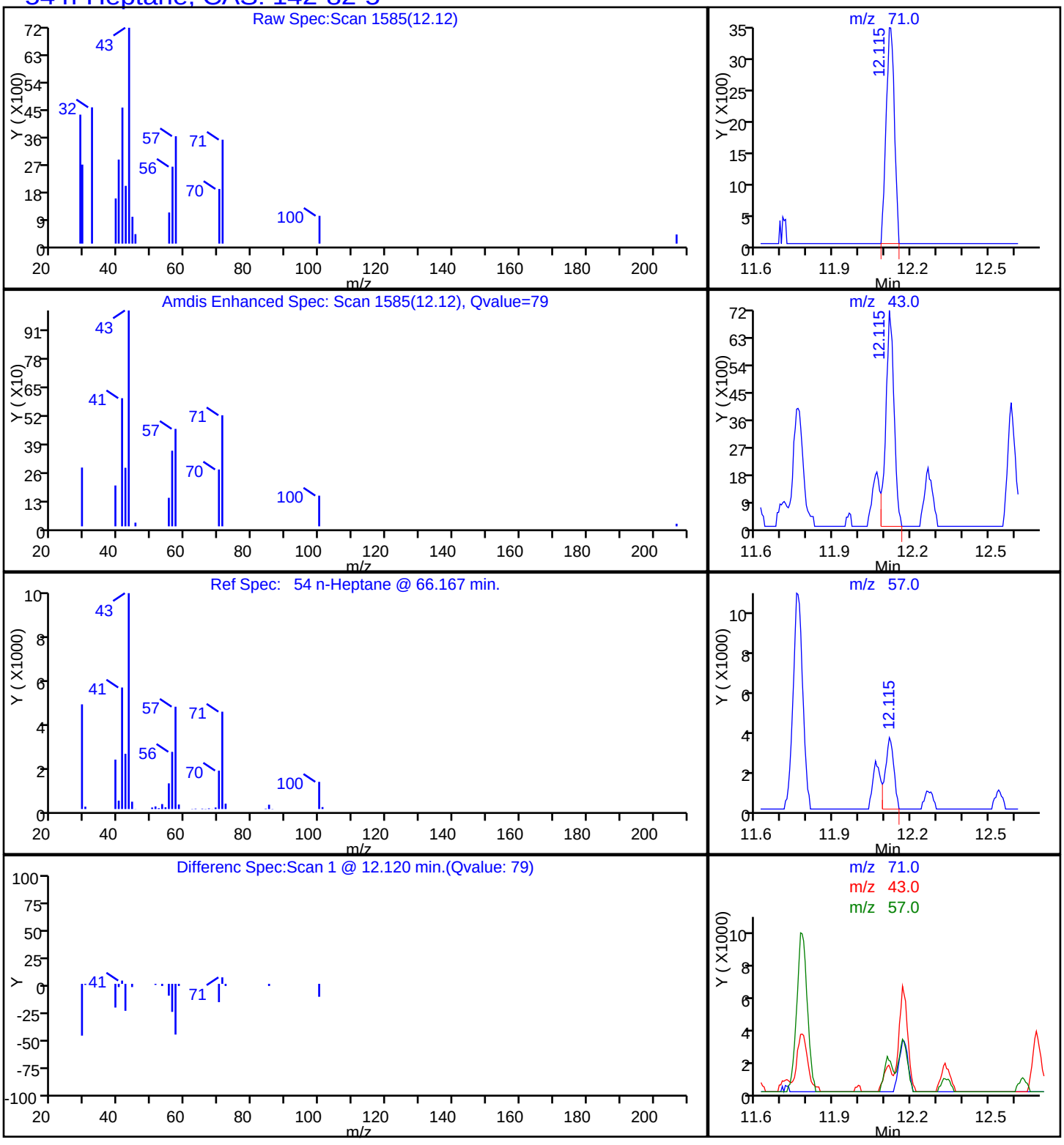
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8
Client ID:	PCV-IA2-B7		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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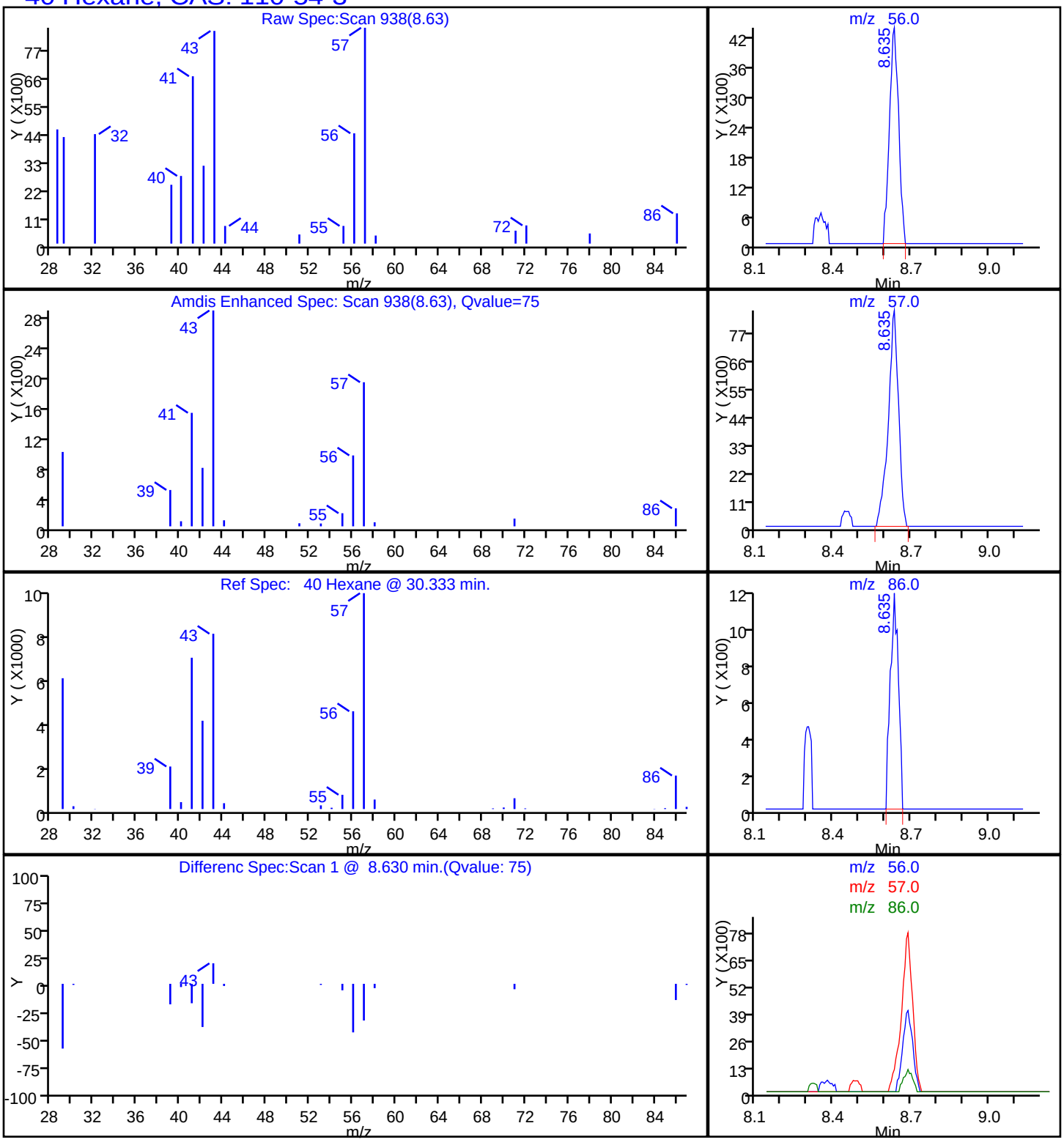
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D				
Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

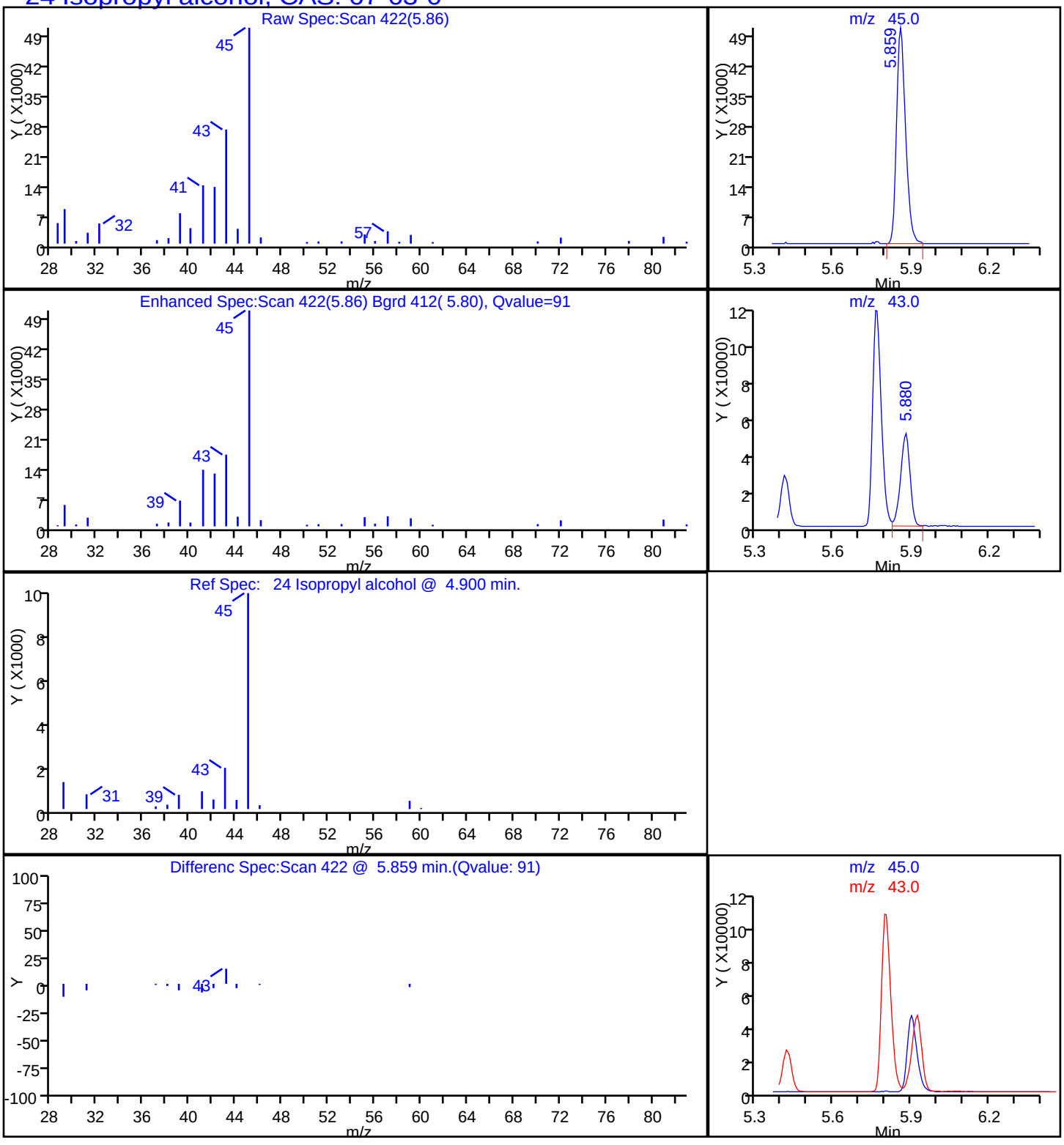
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



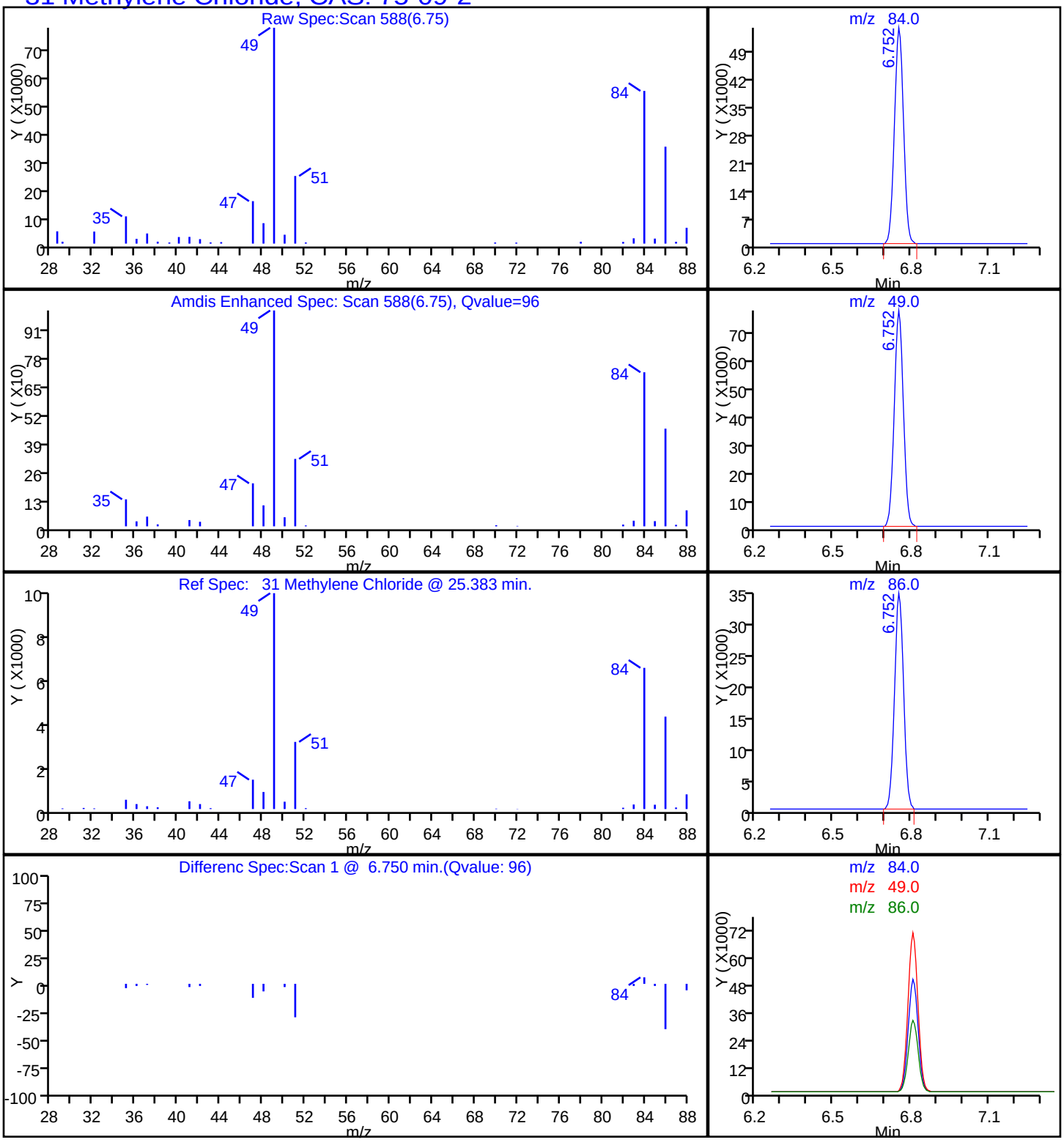
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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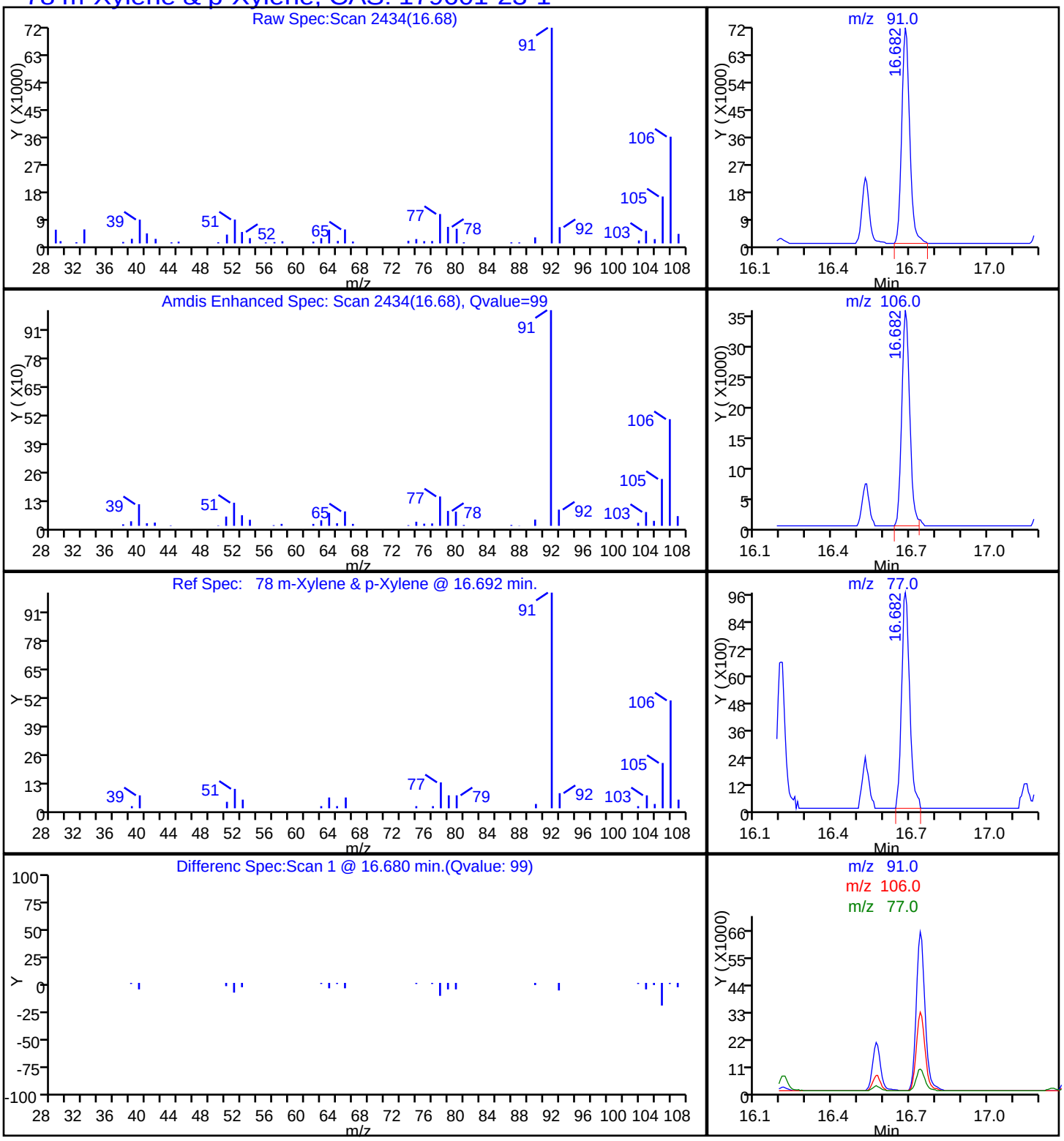
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D				
Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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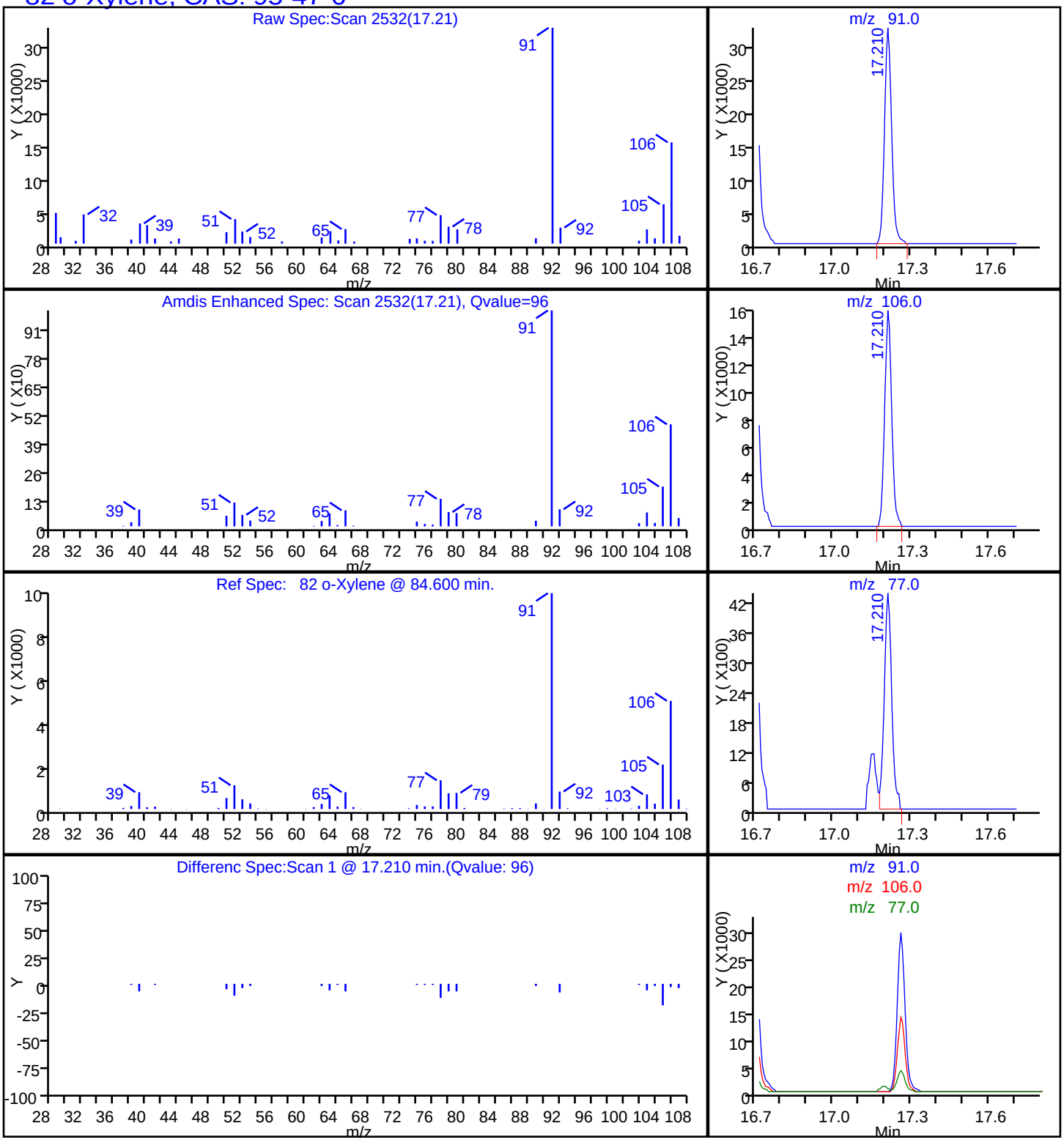
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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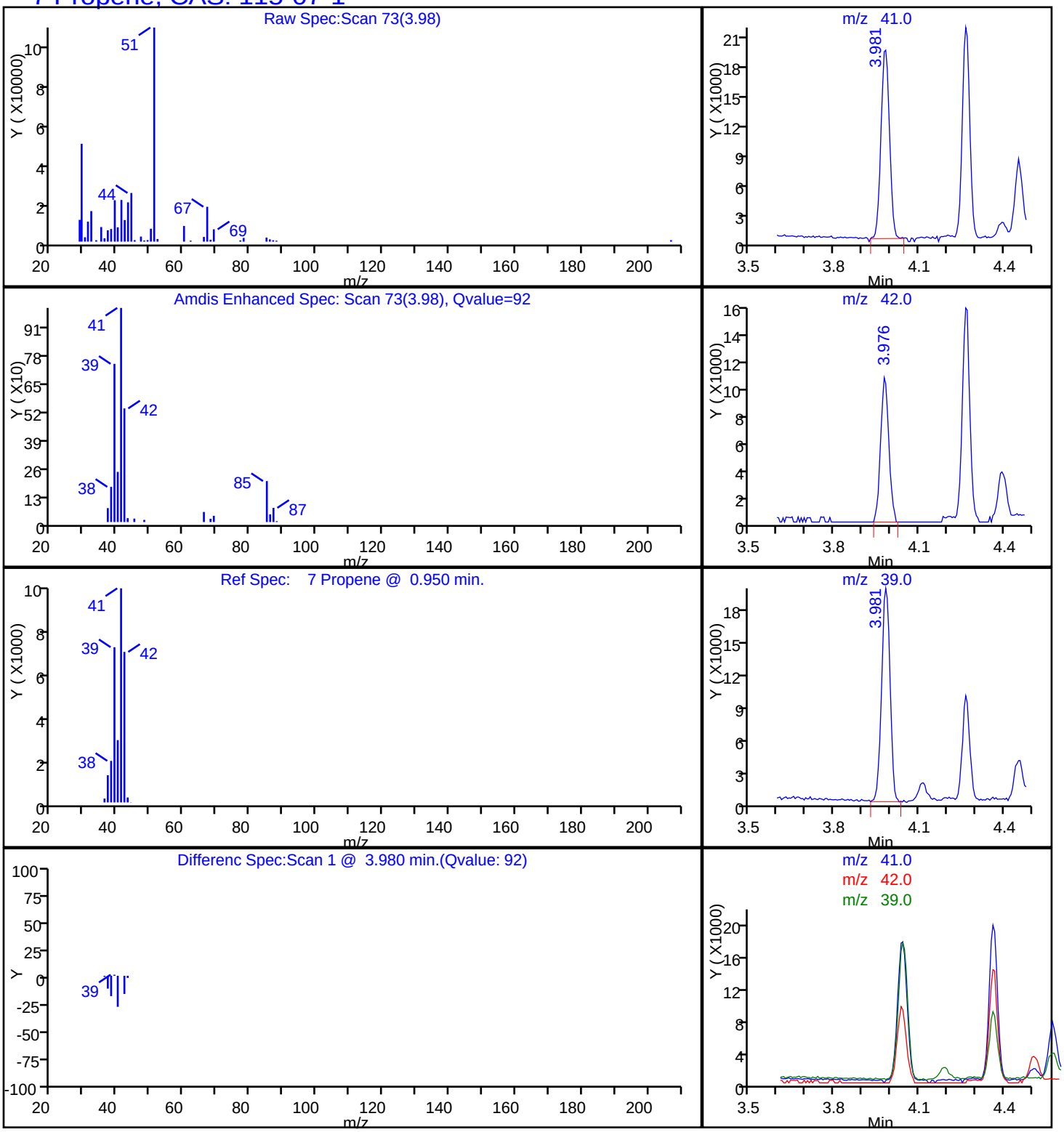
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



Report Date: 19-Mar-2014 13:05:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

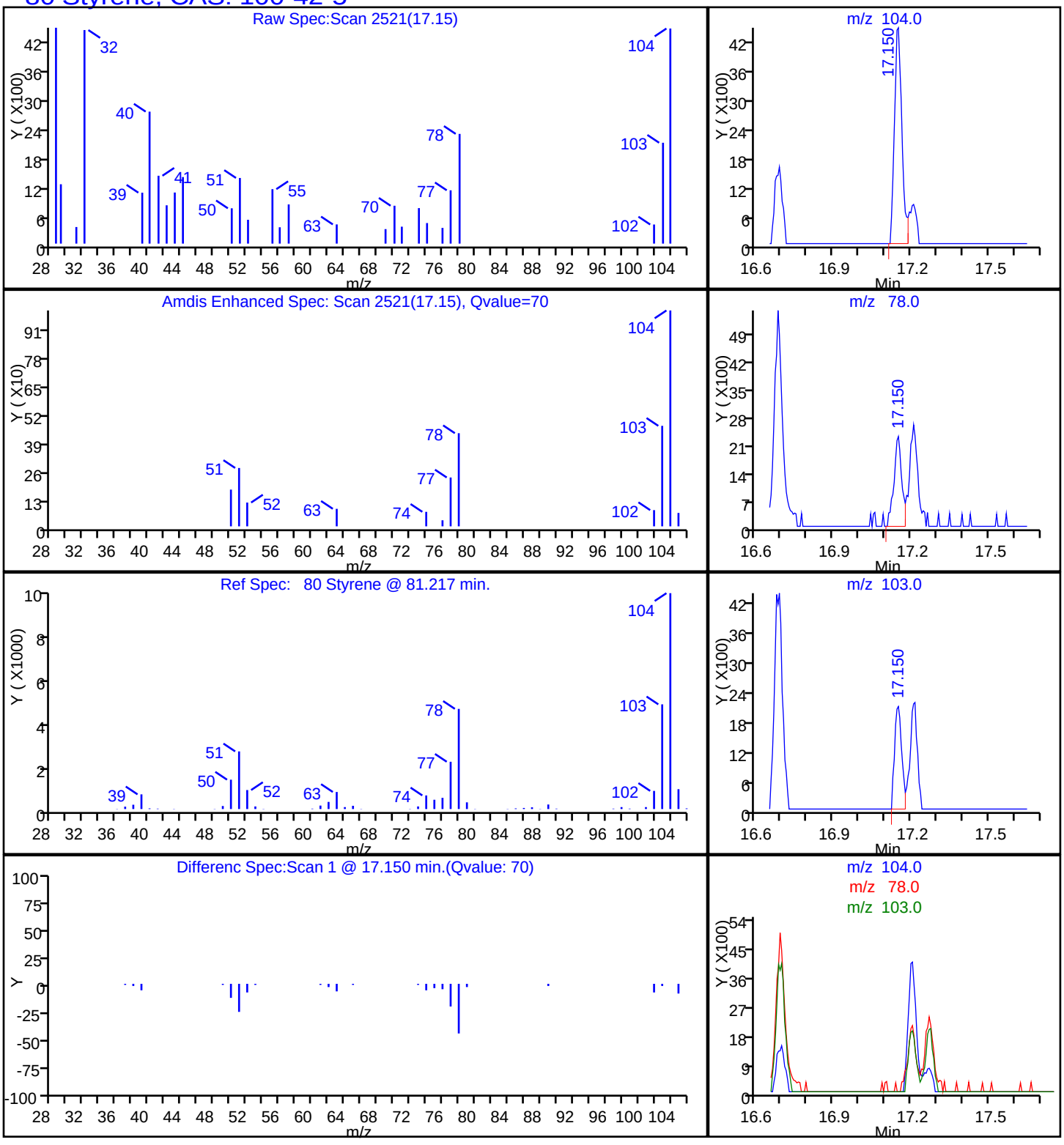
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

80 Styrene, CAS: 100-42-5



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30 Instrument ID: MJ

Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

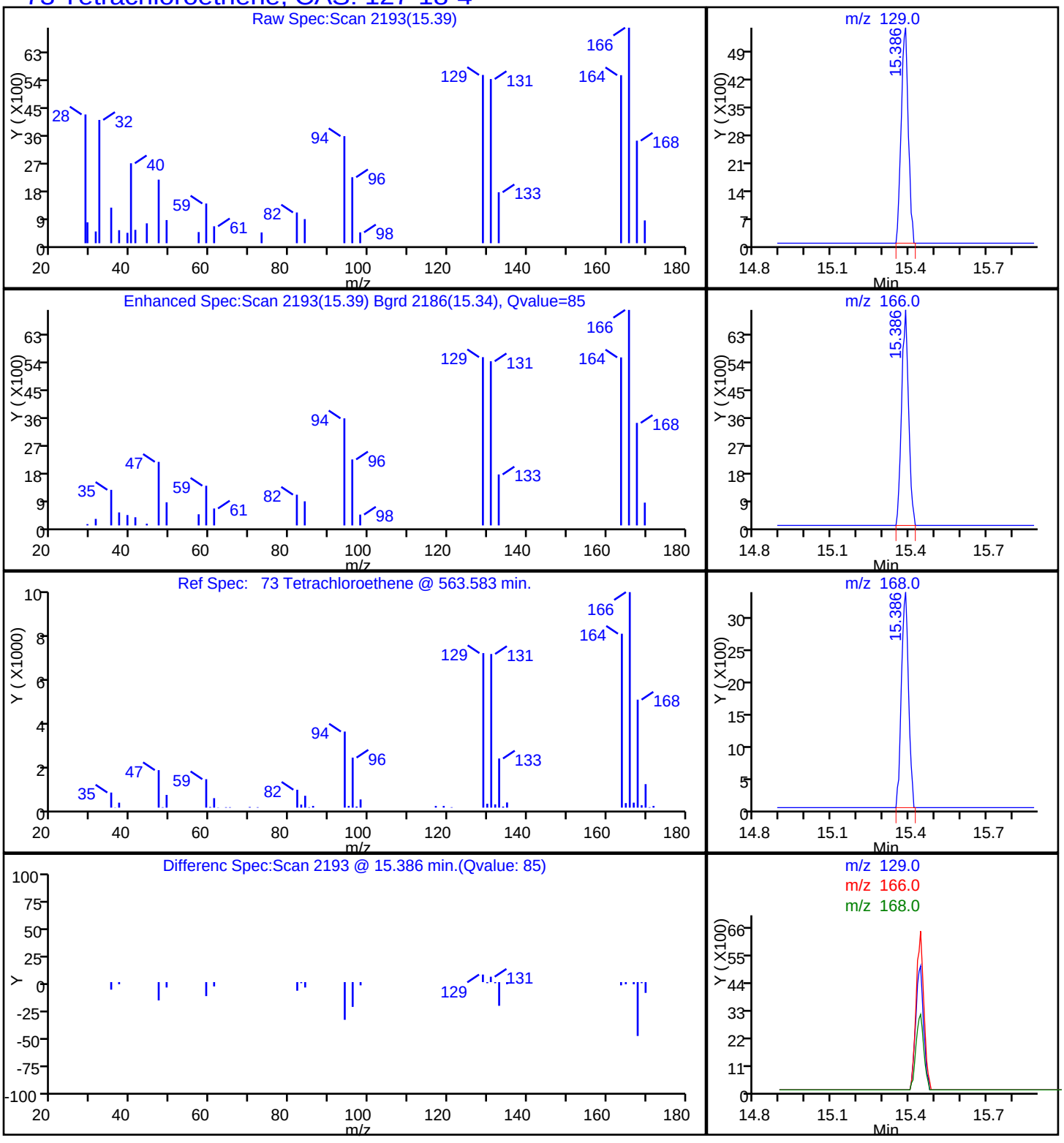
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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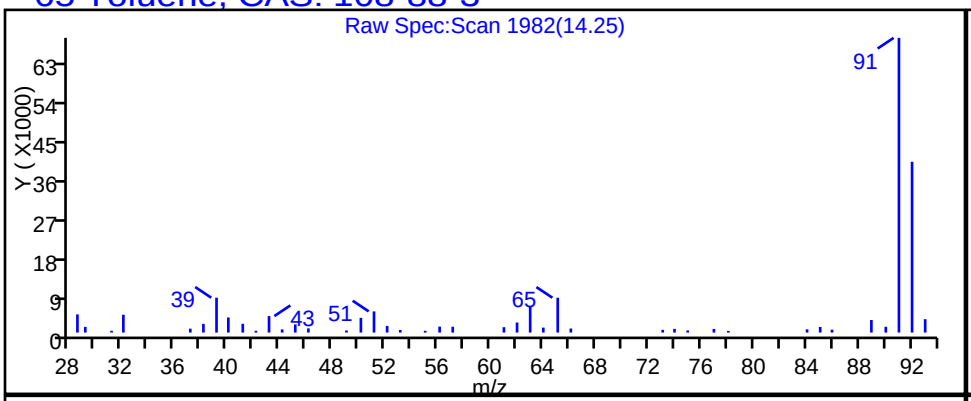
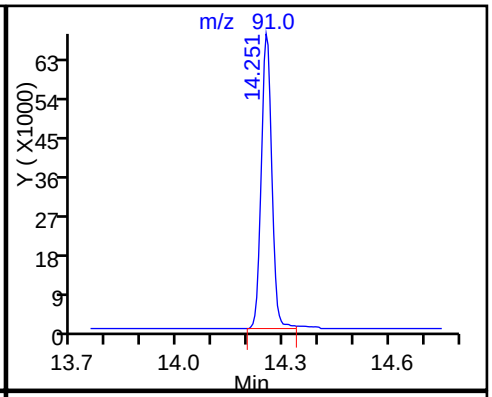
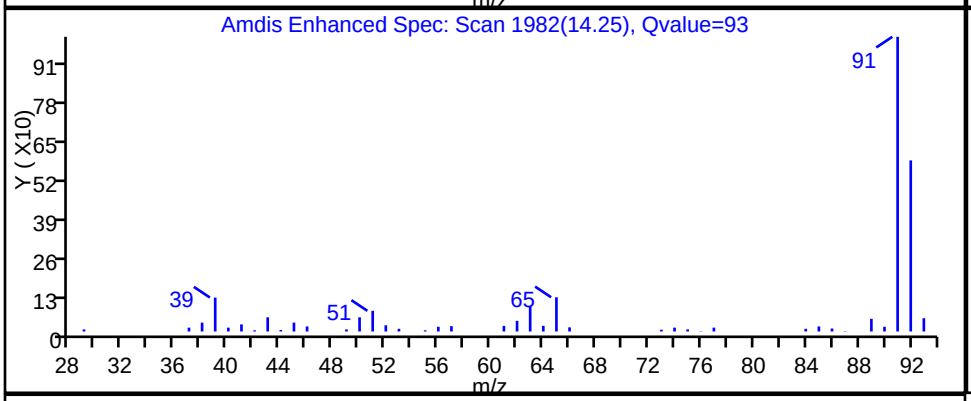
TestAmerica Knoxville

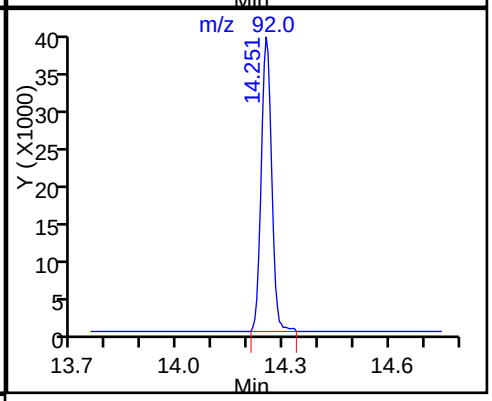
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D				
Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

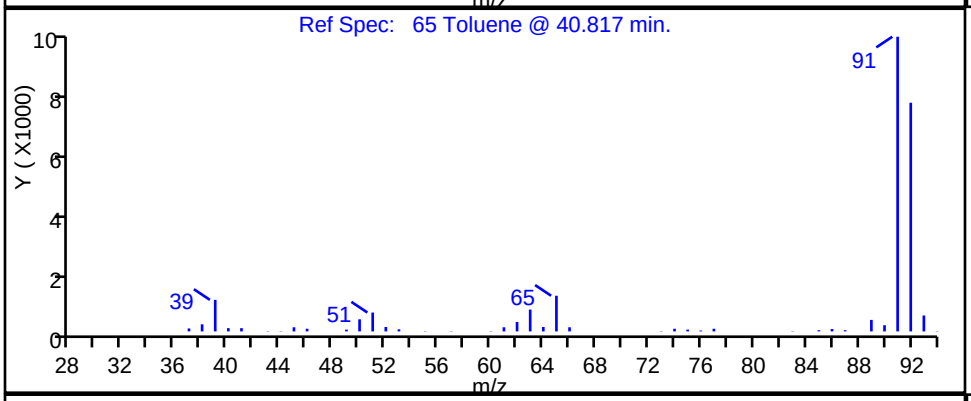
65 Toluene, CAS: 108-88-3

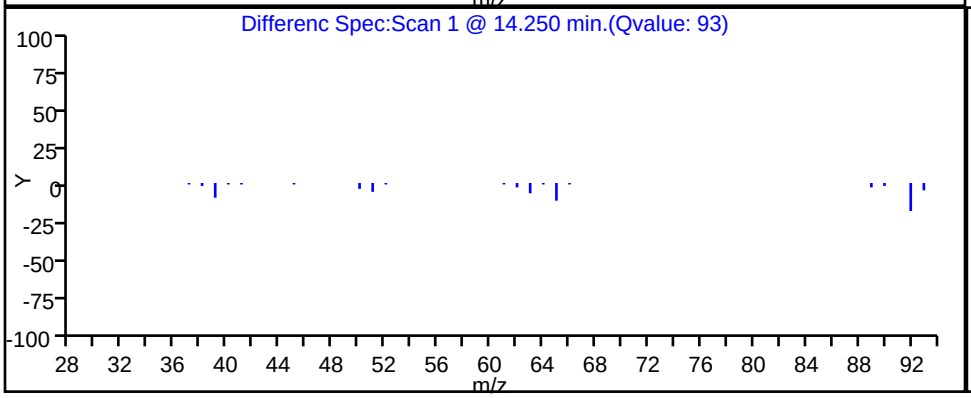


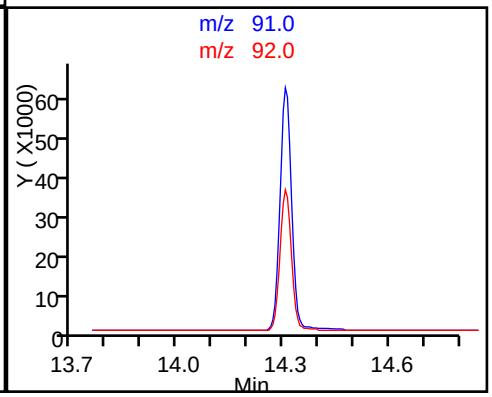












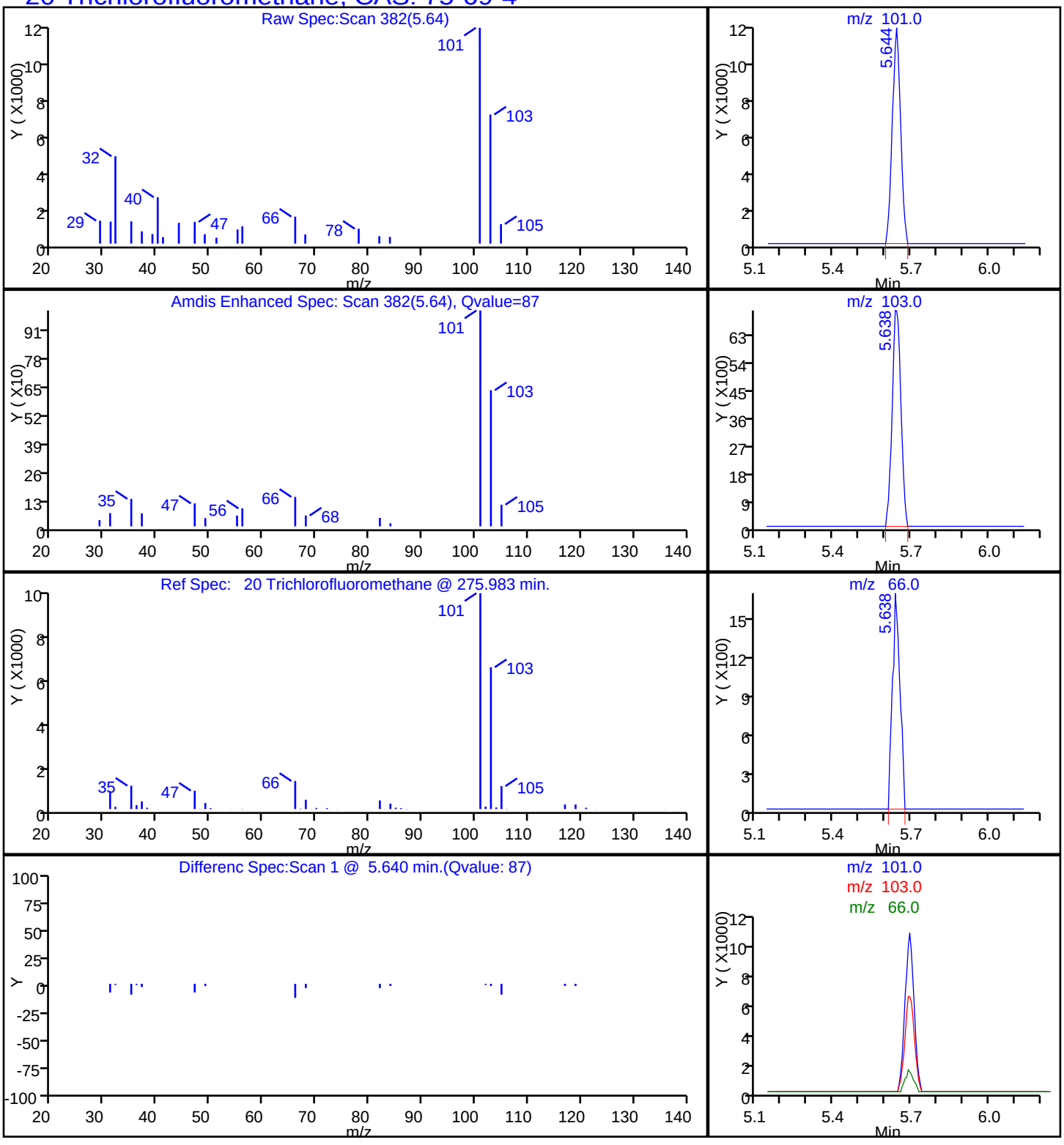
Report Date: 19-Mar-2014 13:05:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date:	19-Mar-2014 04:13:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-8	Lab Sample ID:	140-1063-8		
Client ID:	PCV-IA2-B7				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.62	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.92		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.23		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.13	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.21	J	0.50	0.045
67-64-1	Acetone	58.08	3.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.36		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.056	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.068	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	23		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.15	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.36	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.82		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.94		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.38		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	0.073	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.14	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.55	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.81	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.63	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.83		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.62	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.86	J	2.0	0.18
67-64-1	Acetone	58.08	8.9	J	12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.27	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.23	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	44		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.60	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.5	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	4.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.6		0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.31	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.97	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9

Matrix: Air Lab File ID: JC18P211.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D
Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9
Client ID: PCV-IA3-B7
Sample Type: Client
Inject. Date: 19-Mar-2014 05:07:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-9
Misc. Info.: J031814,TO15,,140-0000527-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:05:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	344401	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1626086	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1289345	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	865581	3.80	
7 Propene	41	3.981	3.971	0.010	94	44970	0.4258	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	61854	0.1813	
9 Chloromethane	52	4.234	4.229	0.005	93	9002	0.2323	
17 Ethanol	31	5.121	5.116	0.005	95	257584	9.32	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	53704	0.3671	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	87	26032	0.0869	
23 Acetone	58	5.767	5.767	0.0	98	73659	1.50	
24 Isopropyl alcohol	45	5.853	5.848	0.005	92	73174	0.5660	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.580	-0.006	54	5917	0.0285	
31 Methylene Chloride	84	6.757	6.757	0.0	95	30093	0.3266	
35 2-Methylpentane	43	7.628	7.623	0.005	87	24917	0.0938	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	81	8043	0.2467	
40 Hexane	56	8.634	8.635	-0.001	88	13473	0.1455	
43 Chloroform	83	9.387	9.393	-0.006	3	4506	0.0225	
48 Benzene	78	11.022	11.023	-0.001	94	39764	0.1425	
49 Cyclohexane	69	11.033	11.034	-0.001	34	1498	0.0272	
50 Carbon tetrachloride	117	11.049	11.050	-0.001	85	6024	0.0261	
53 Isooctane	57	11.759	11.760	-0.001	90	25832	0.0542	
54 n-Heptane	71	12.120	12.120	0.0	80	5782	0.0586	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.368	0.011	84	14320	0.0840	
65 Toluene	91	14.250	14.256	-0.006	92	105829	0.4425	
73 Tetrachloroethene	129	15.385	15.386	-0.001	80	6353	0.0570	
76 Ethylbenzene	91	16.531	16.532	-0.001	82	24380	0.0923	
78 m-Xylene & p-Xylene	91	16.687	16.688	-0.001	99	79848	0.3745	
80 Styrene	104	17.144	17.150	-0.006	31	4250	0.0290	
82 o-Xylene	91	17.209	17.215	-0.006	90	32470	0.1502	
88 4-Ethyltoluene	105	18.457	18.447	0.010	59	14404	0.0502	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	16425	0.0656	

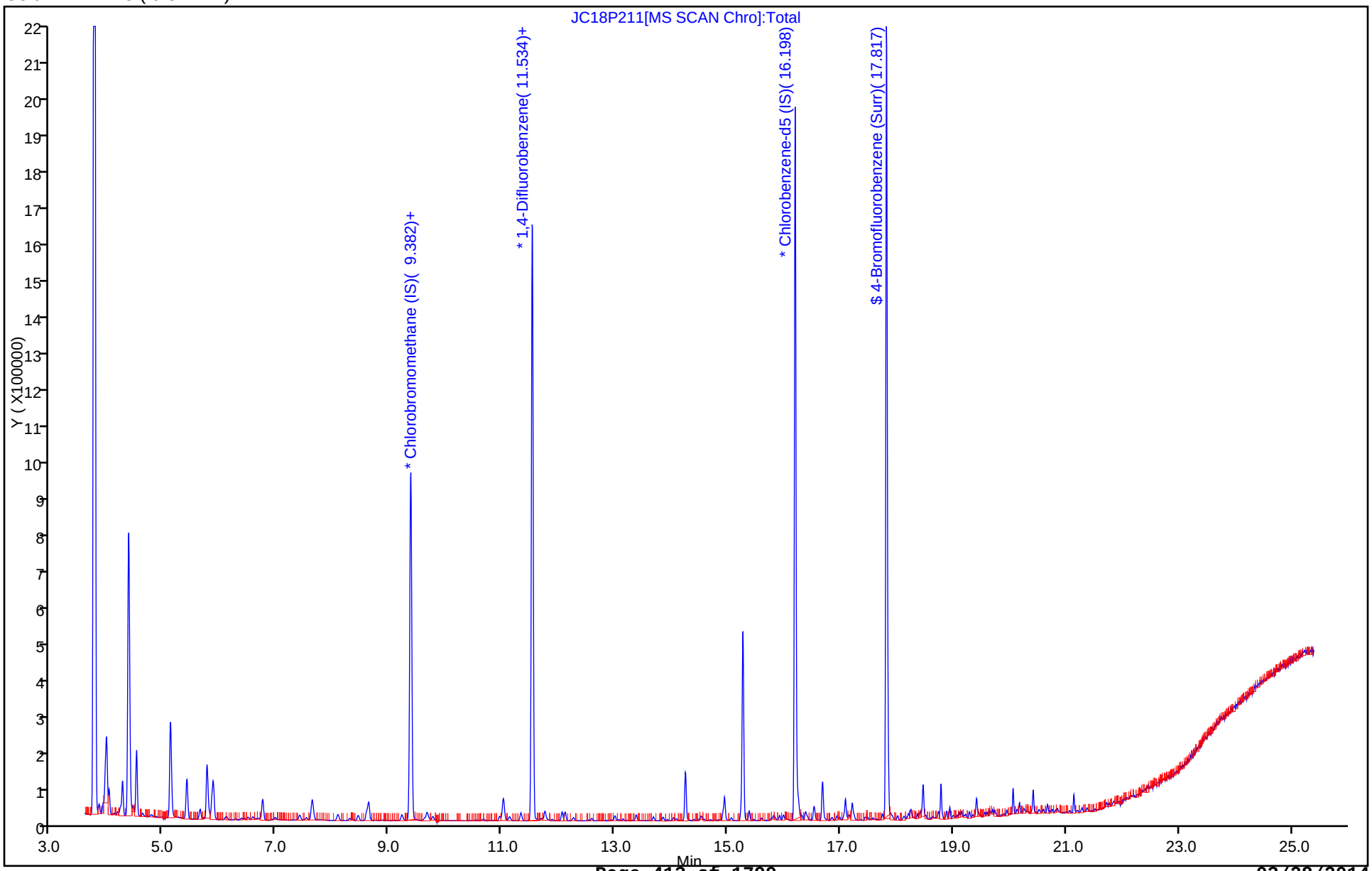
Report Date: 19-Mar-2014 13:05:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9	Worklist Smp#:	17
Client ID:	PCV-IA3-B7				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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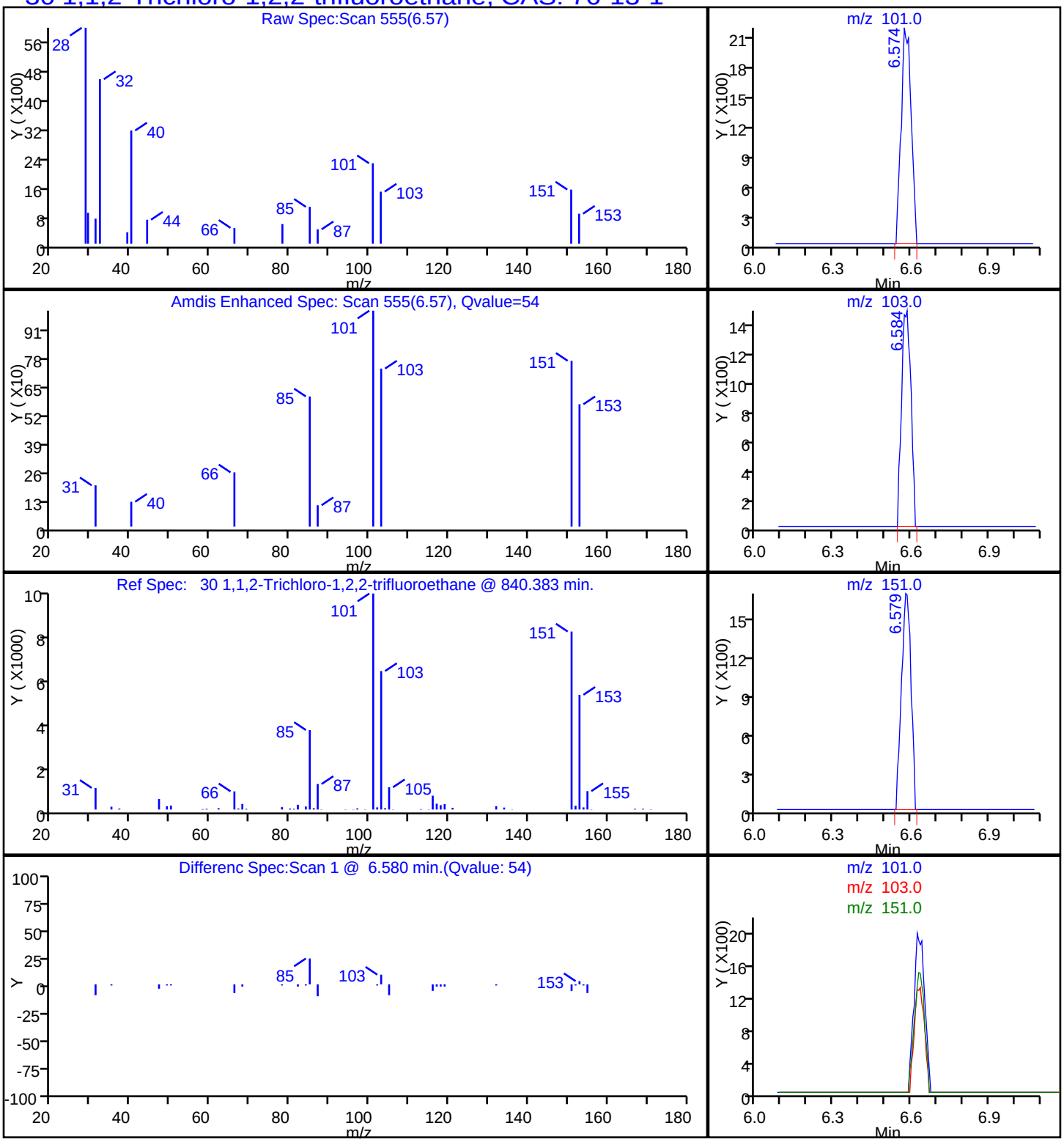
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



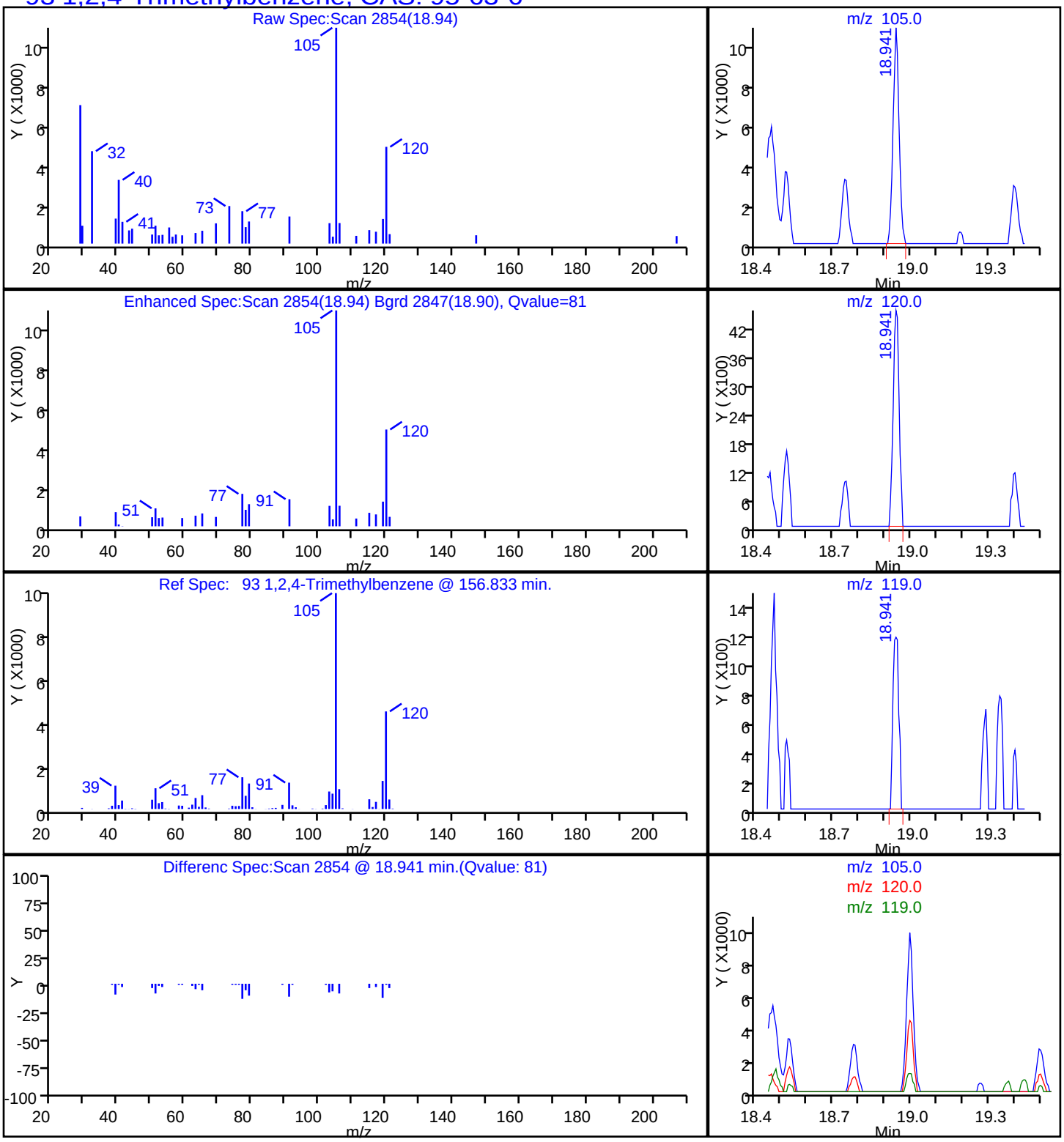
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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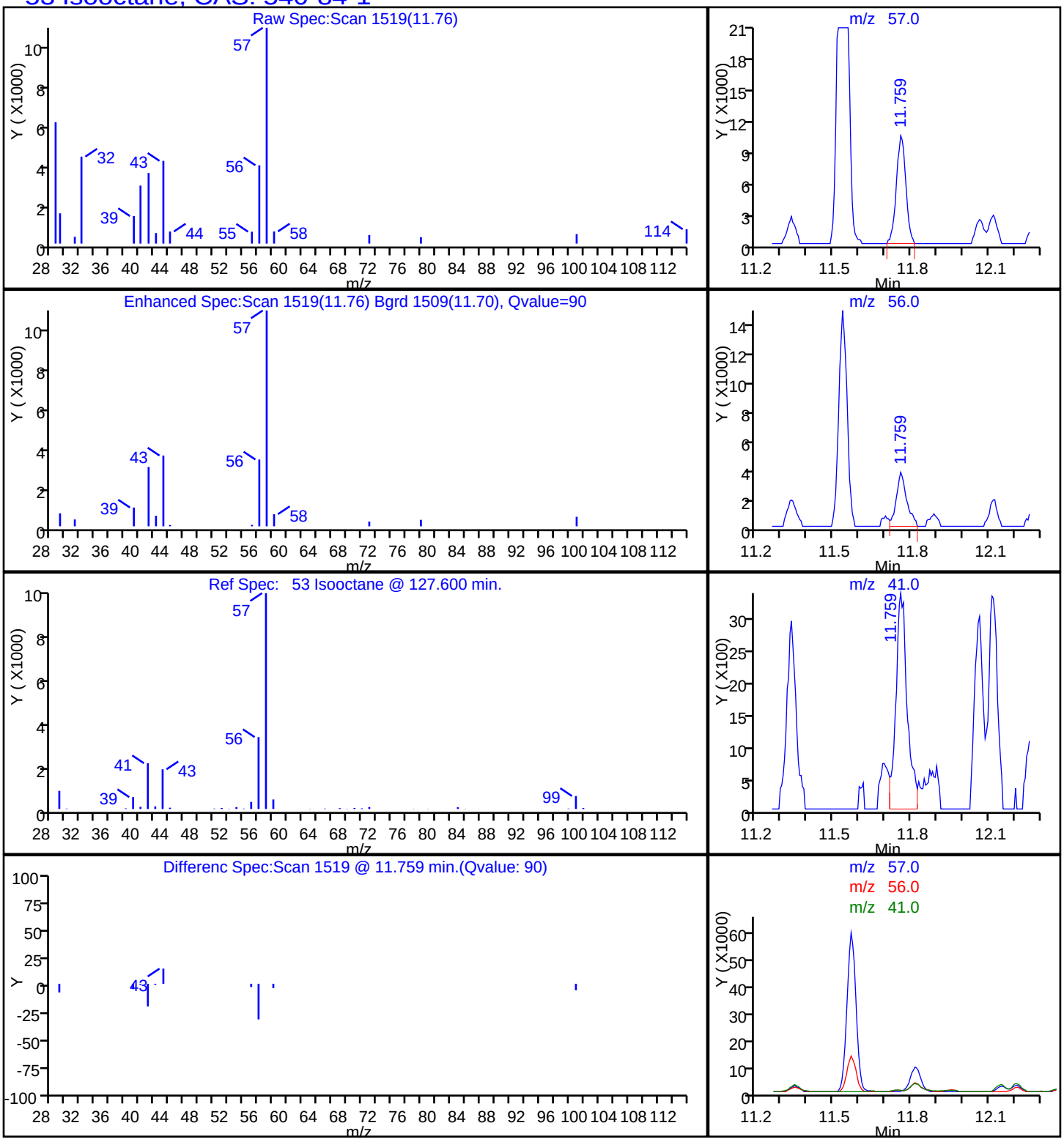
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D				
Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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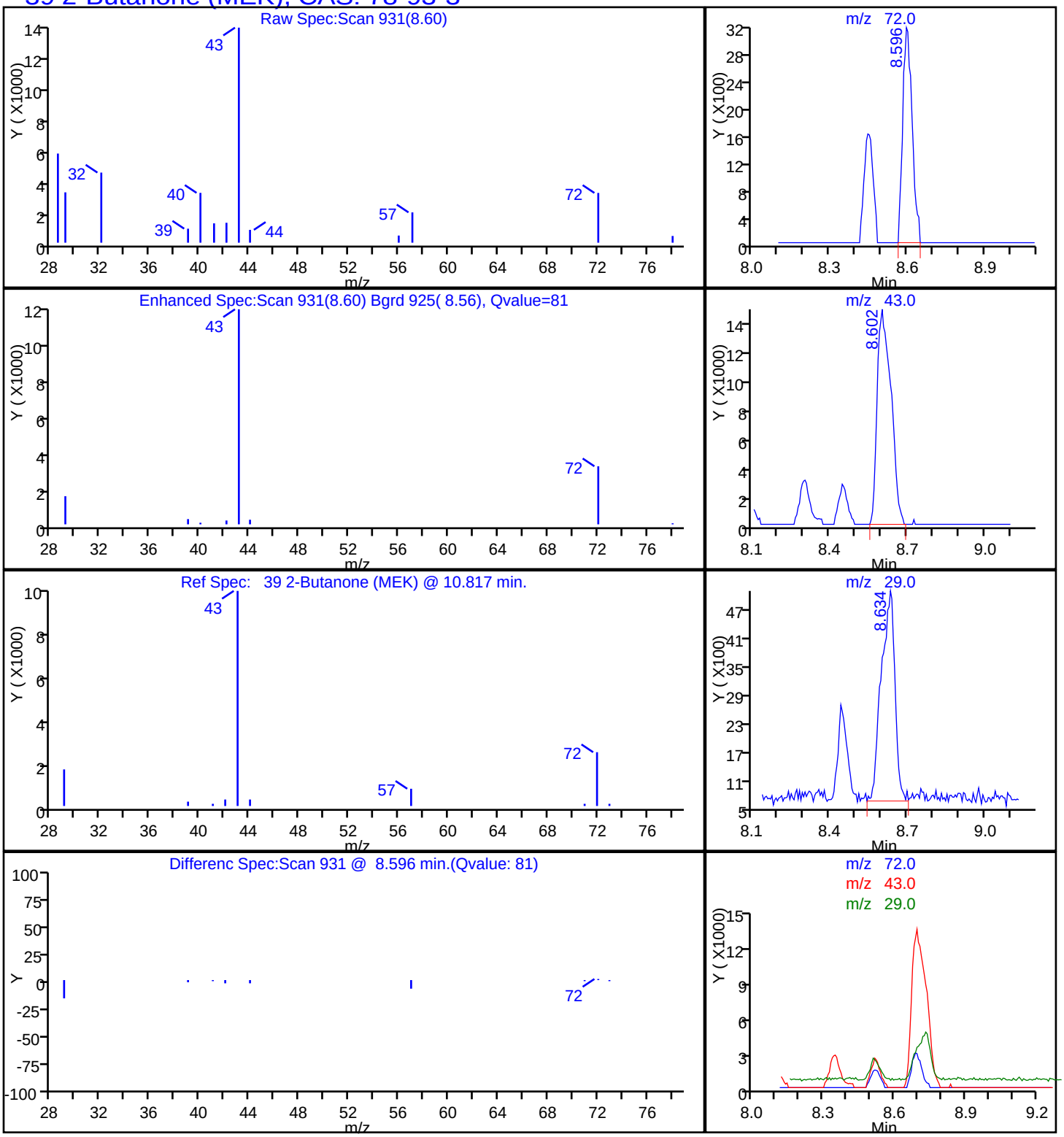
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

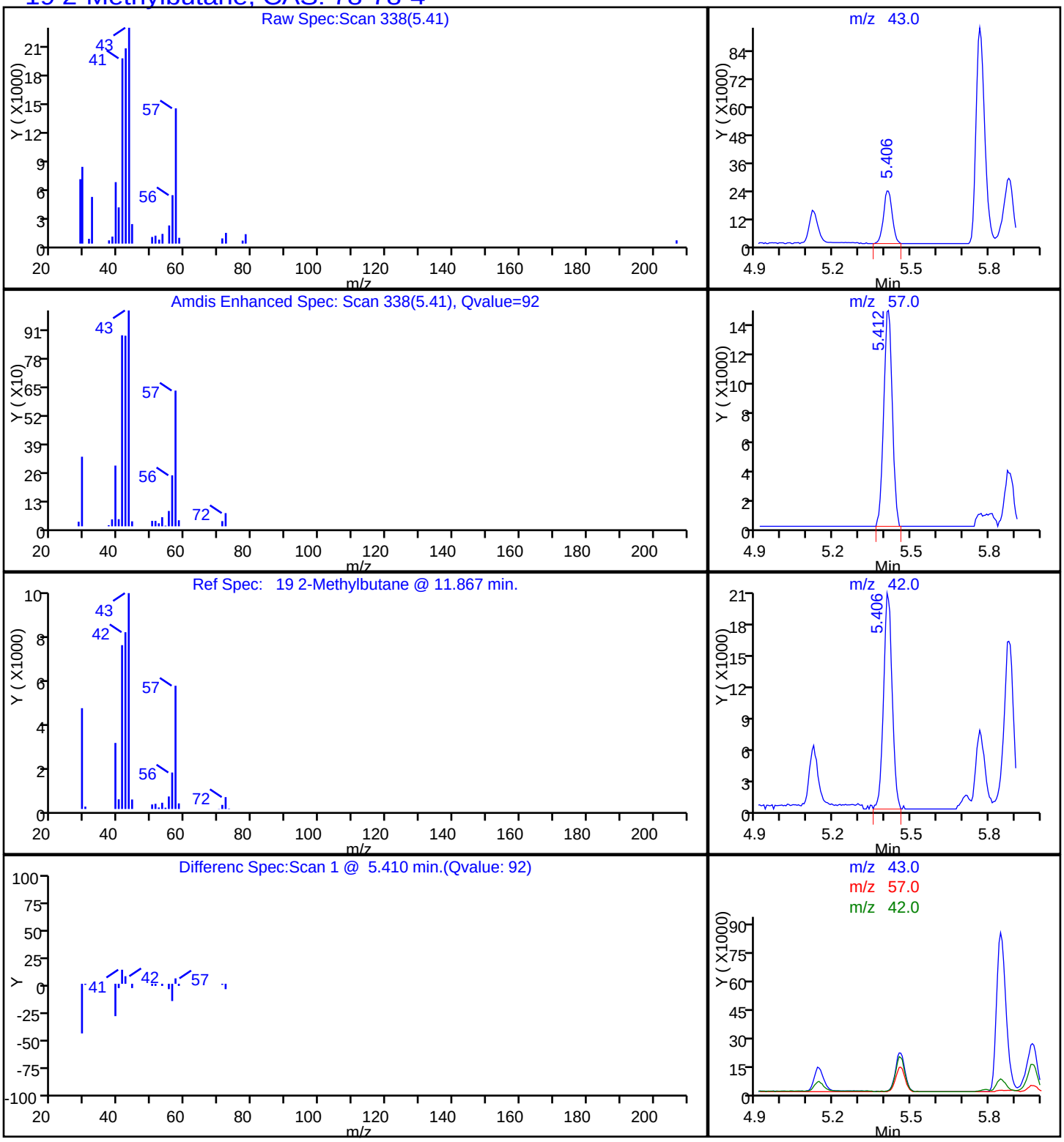
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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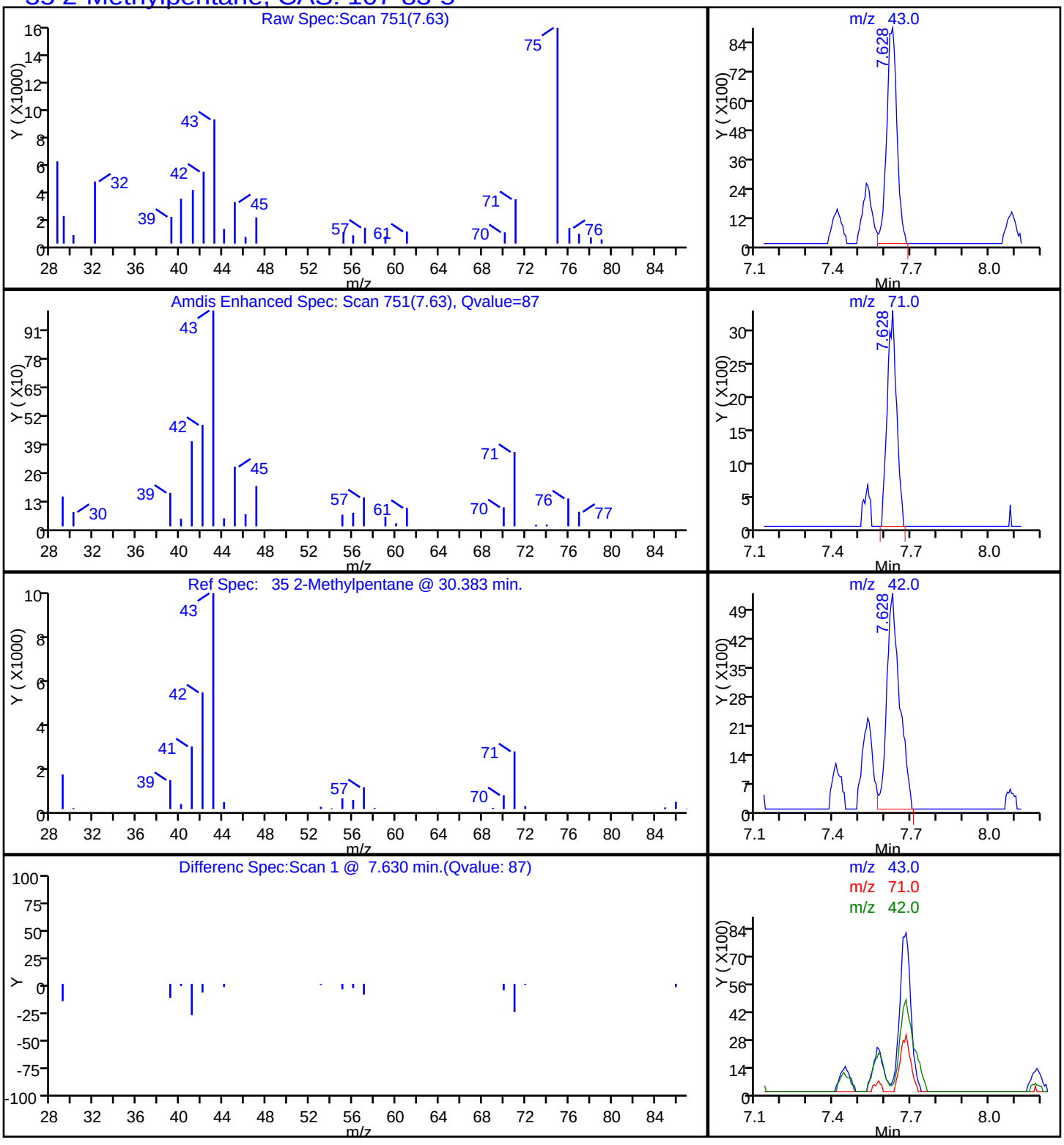
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



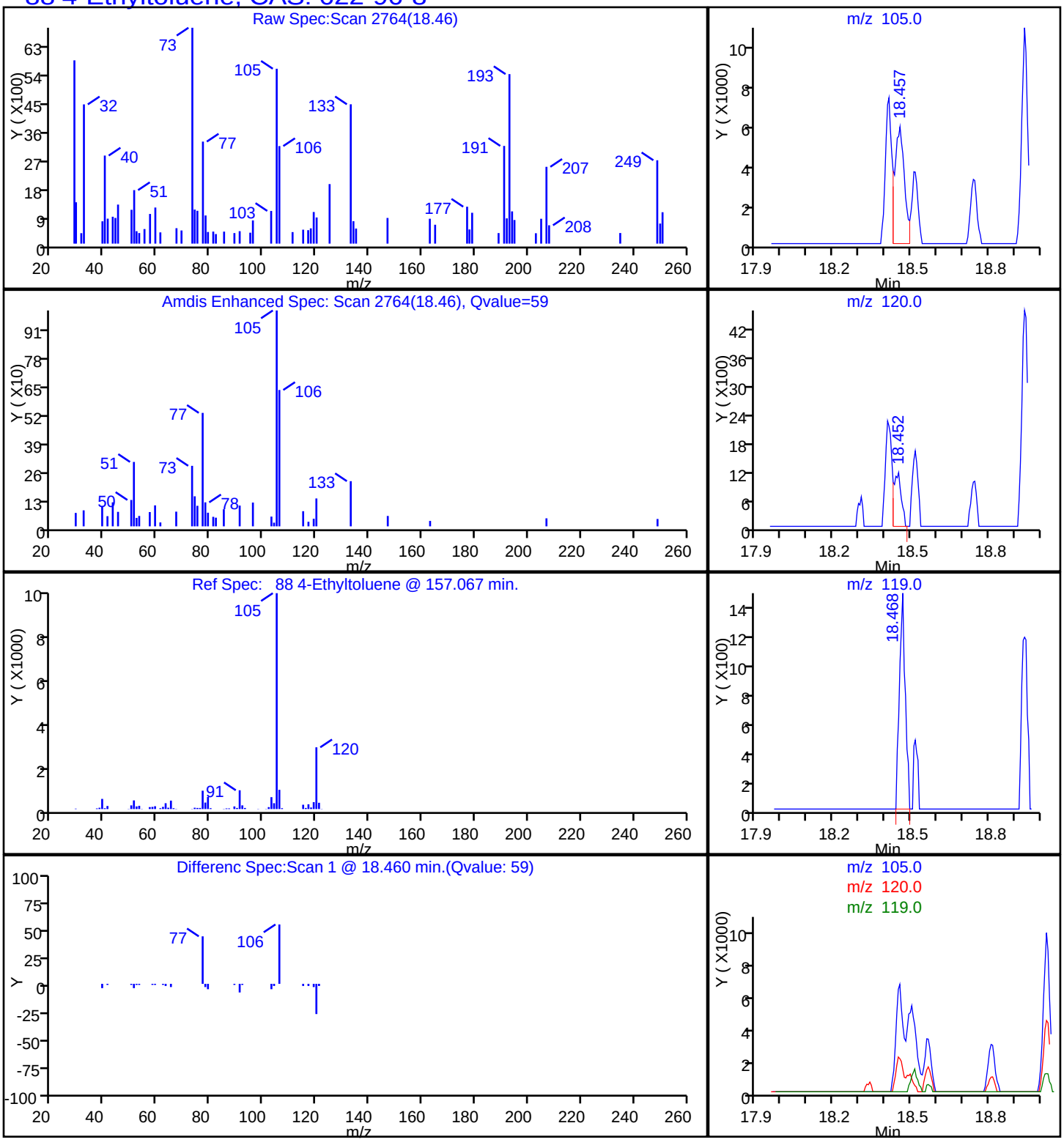
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

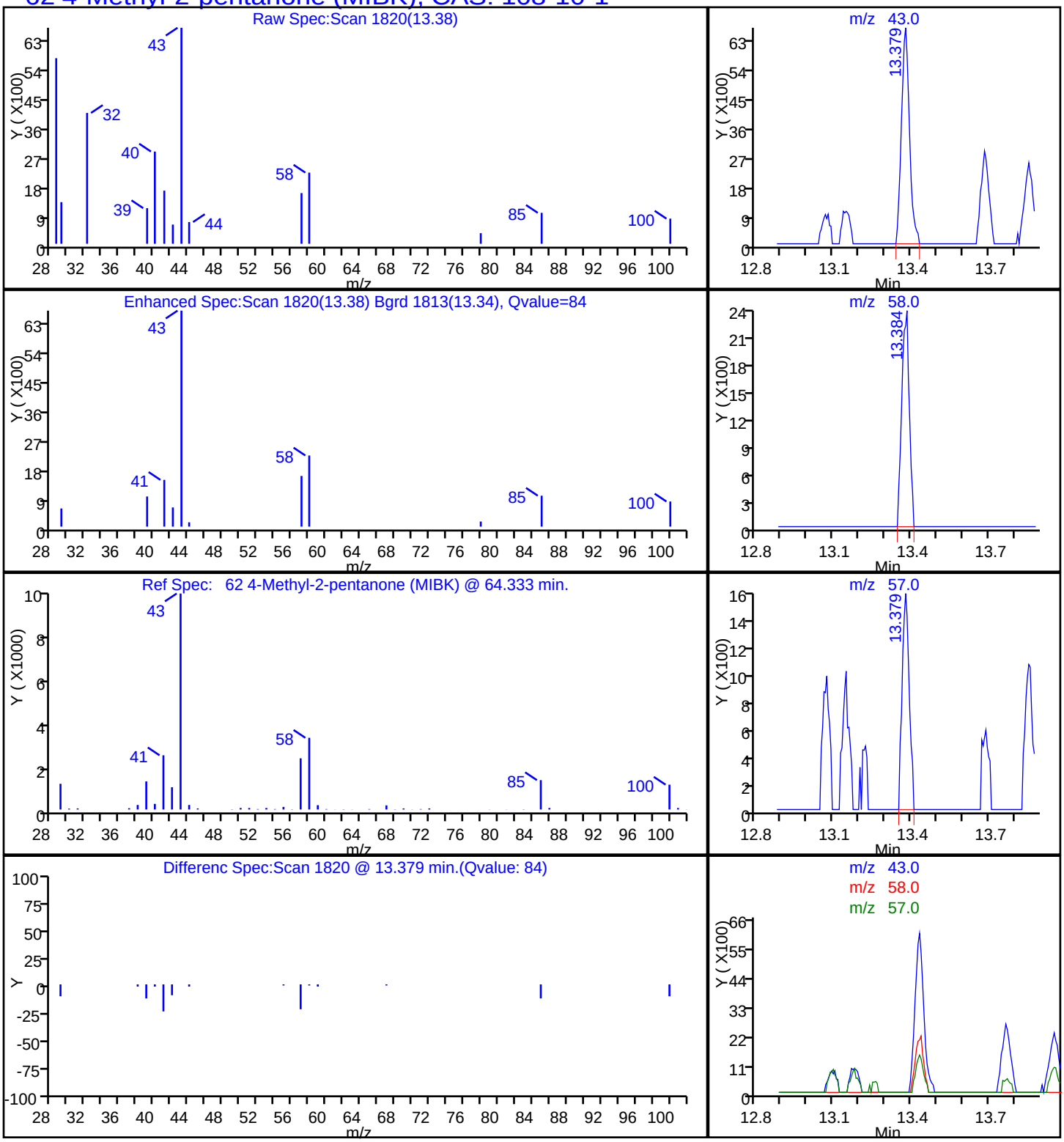
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D				
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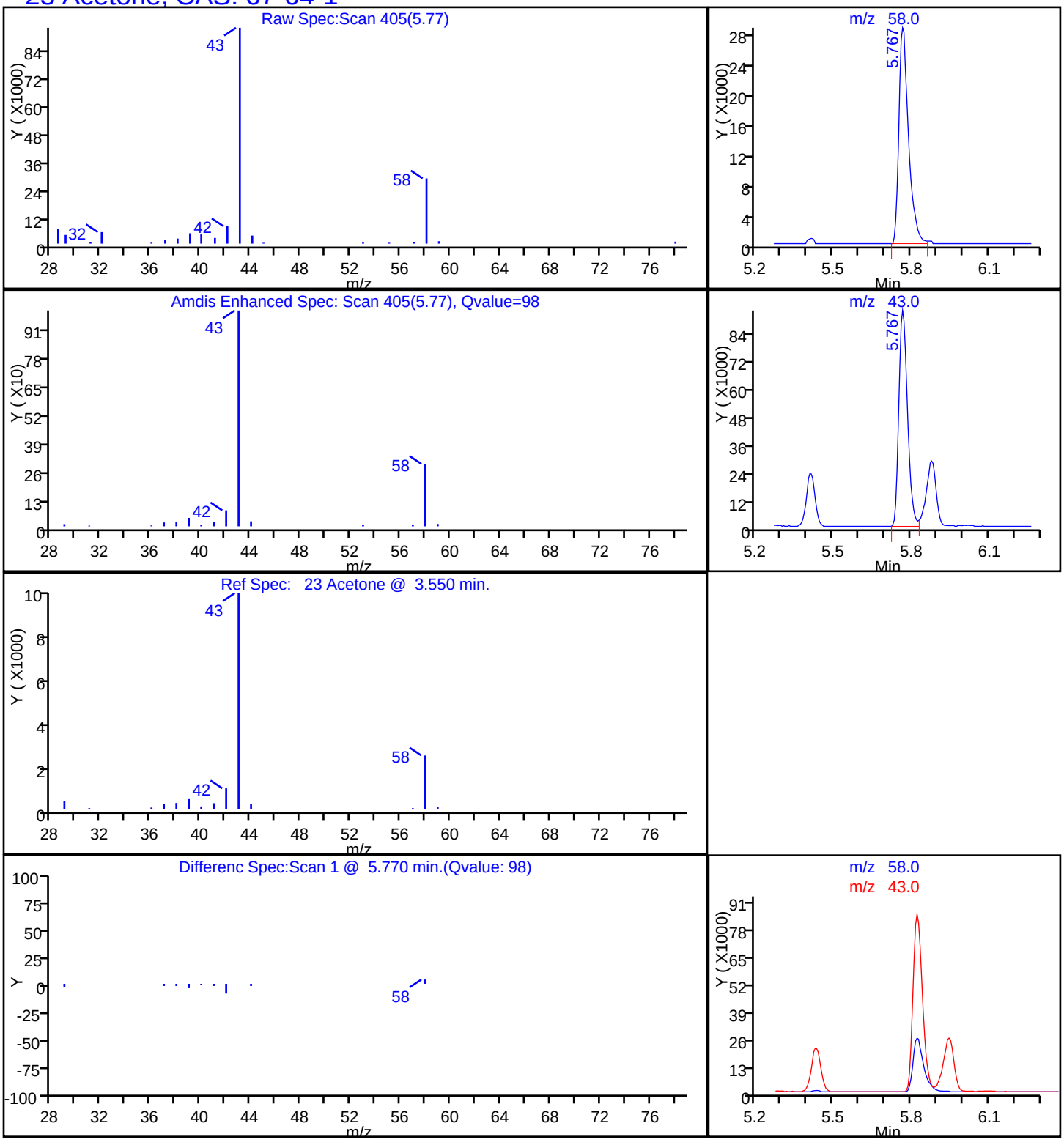
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

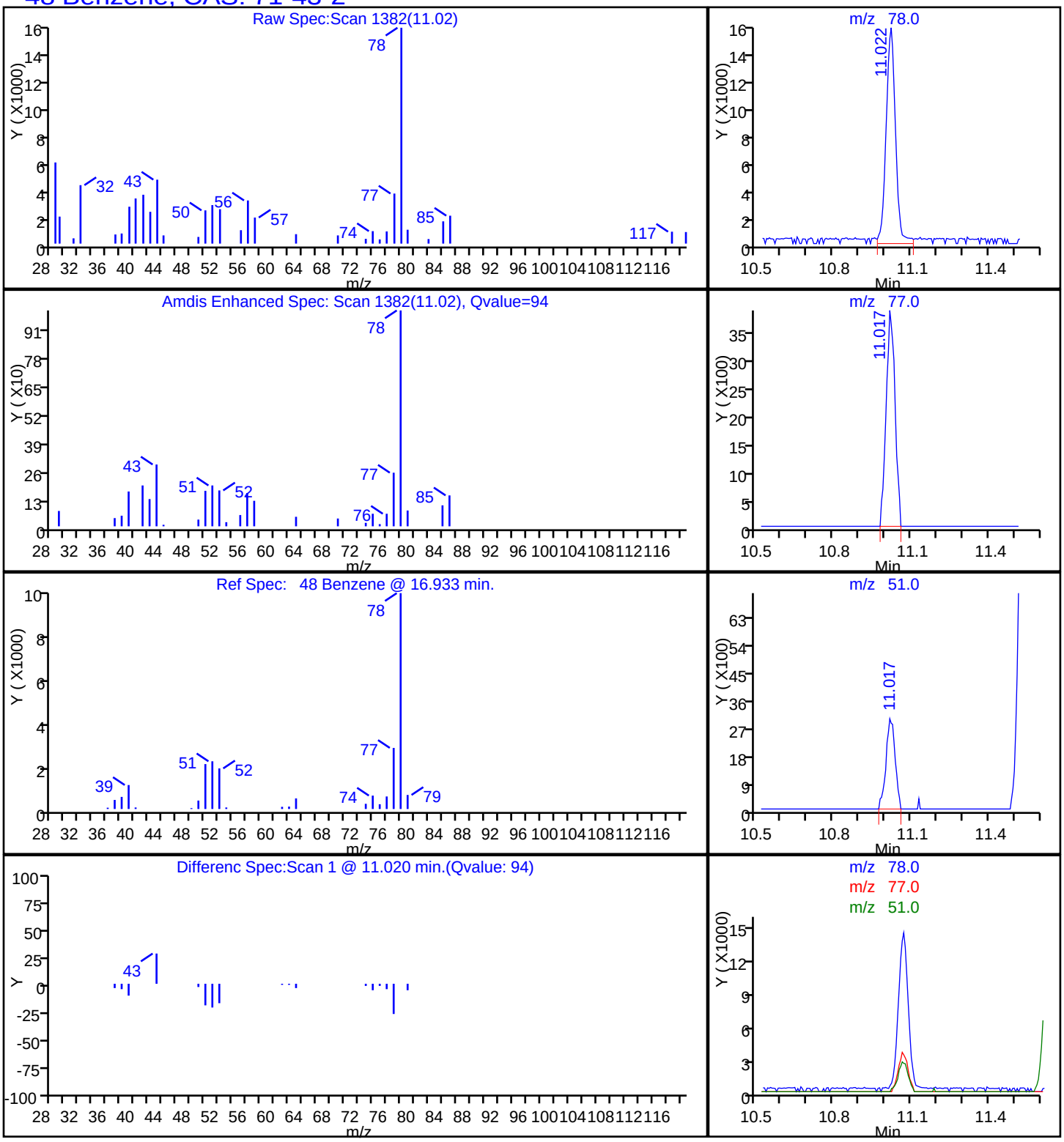
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

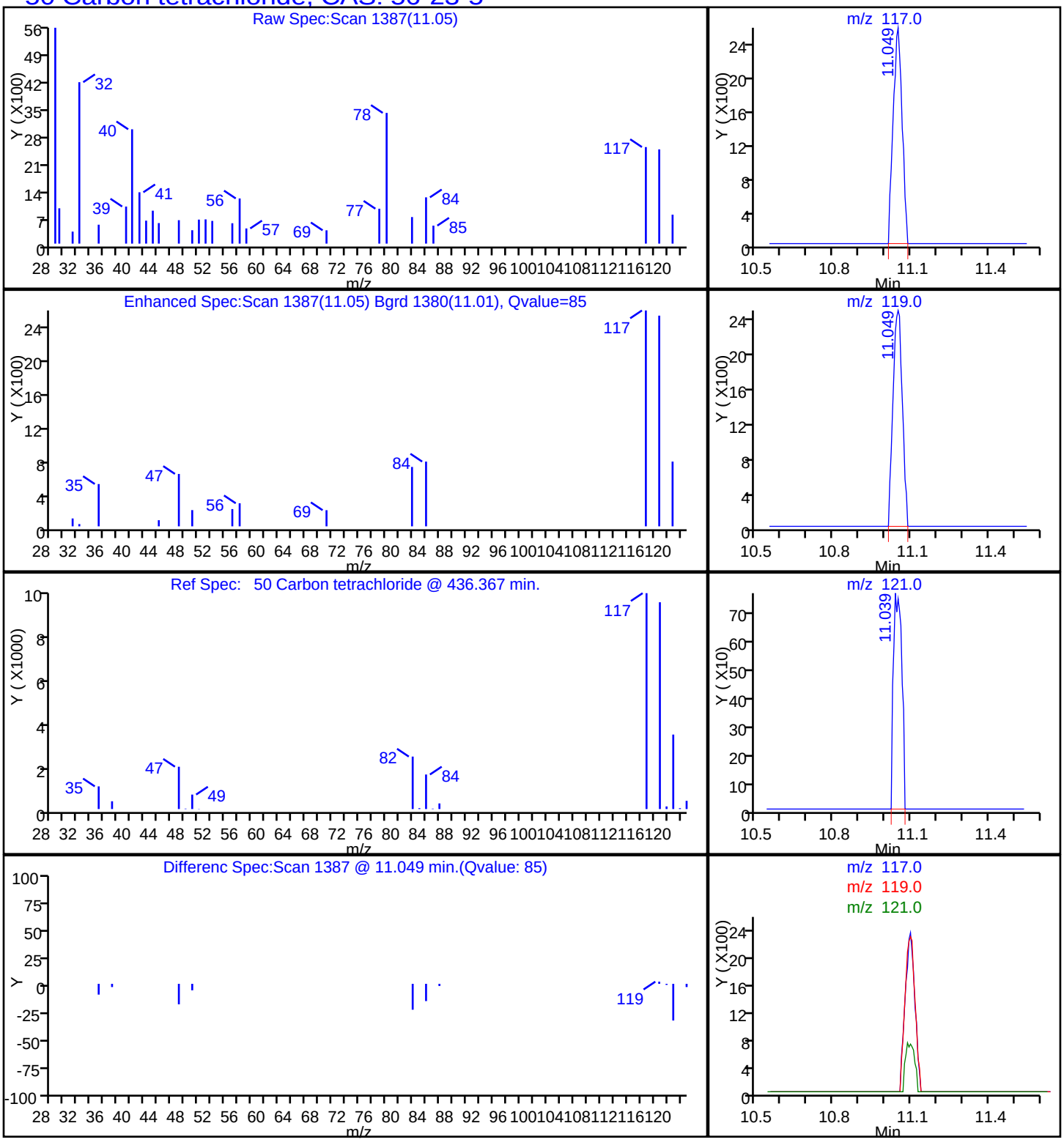
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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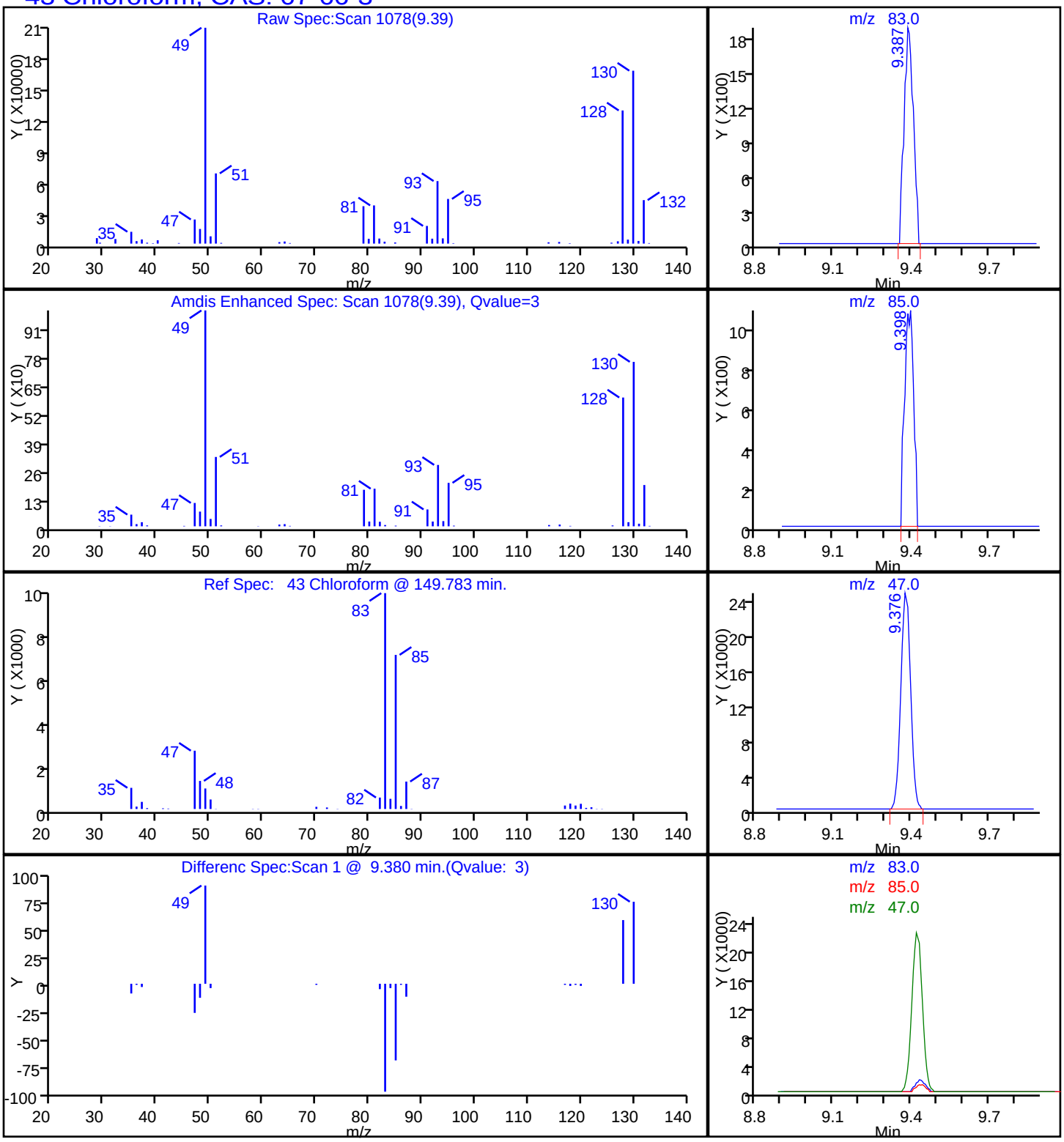
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

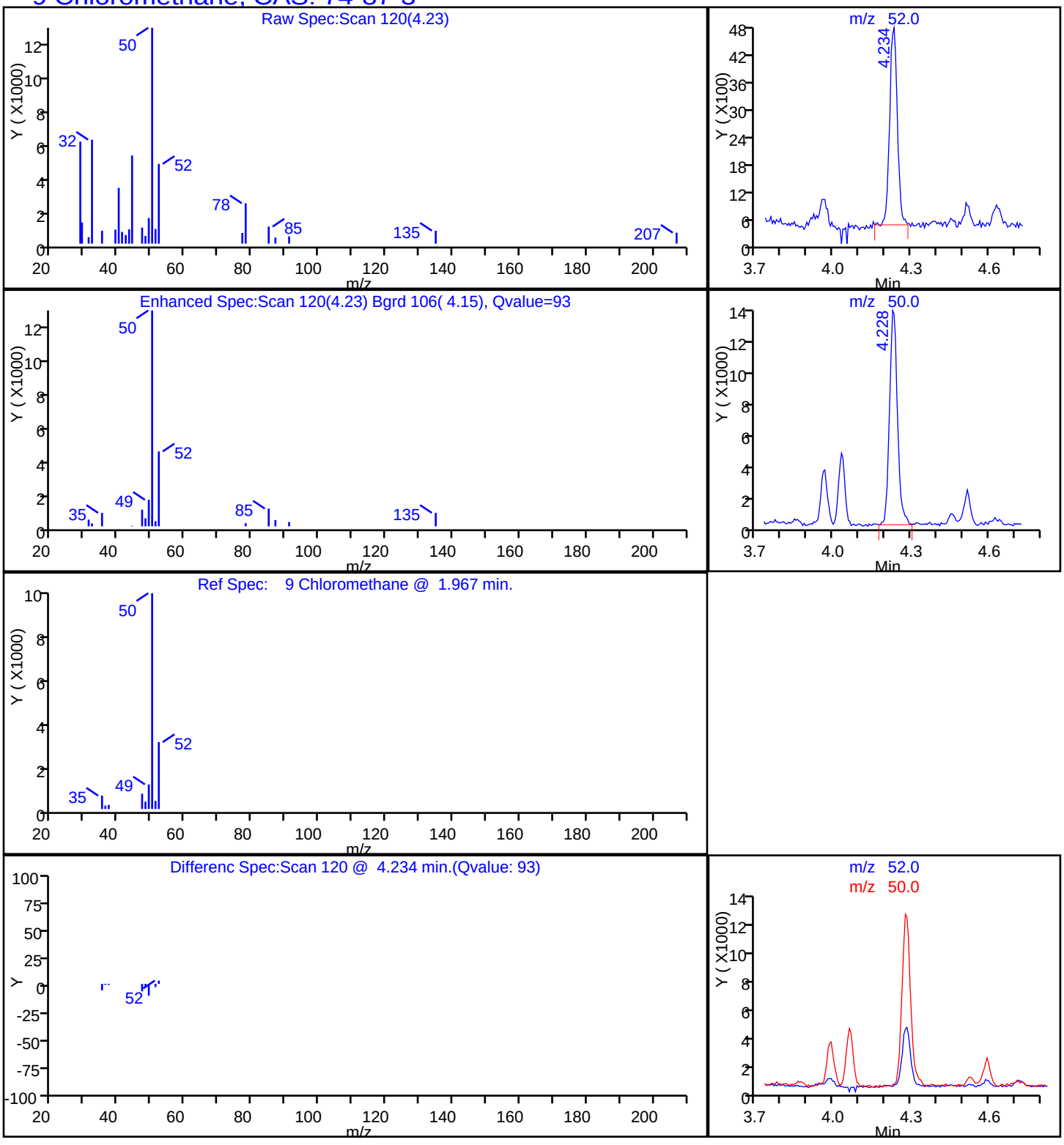
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

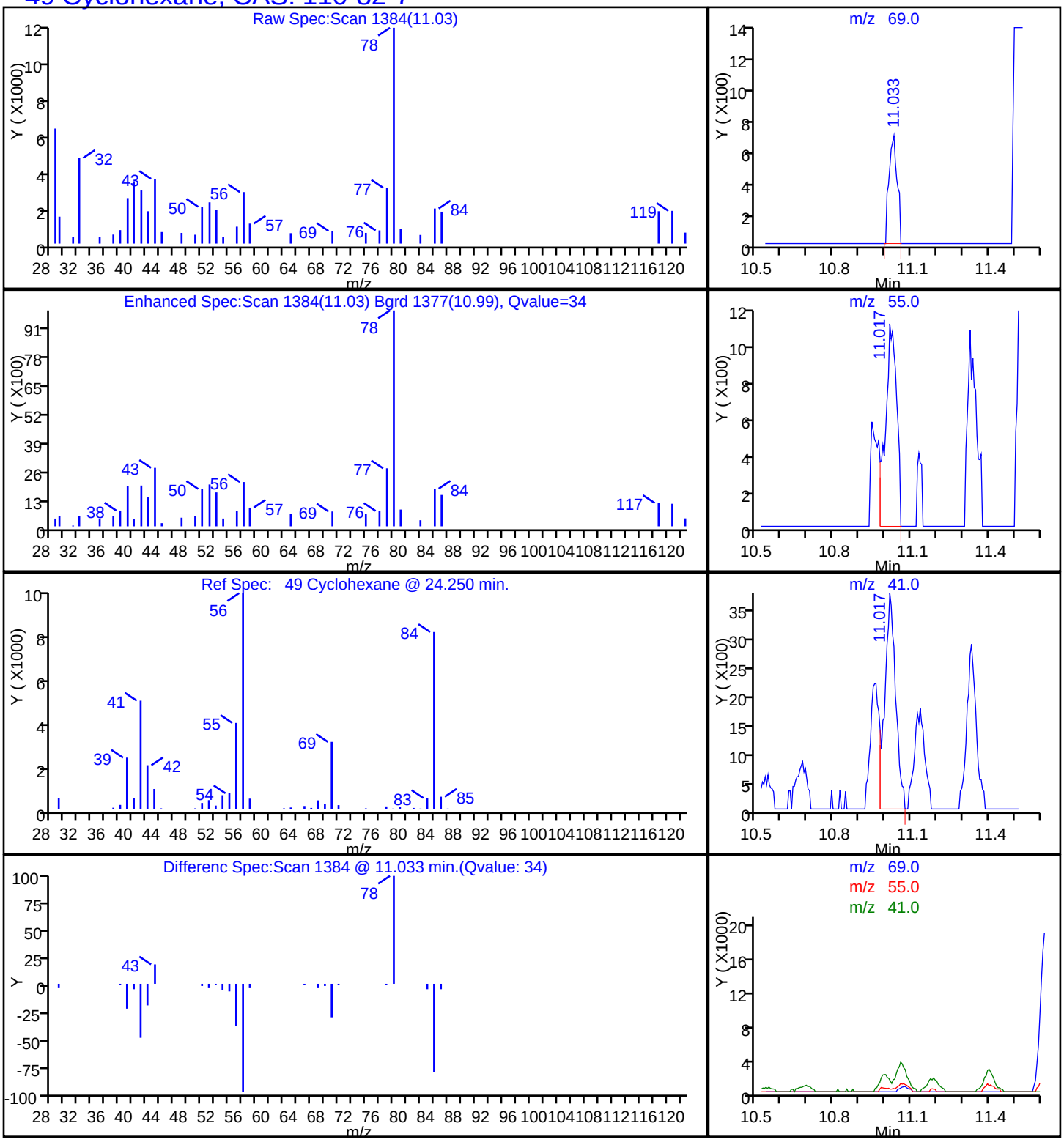
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

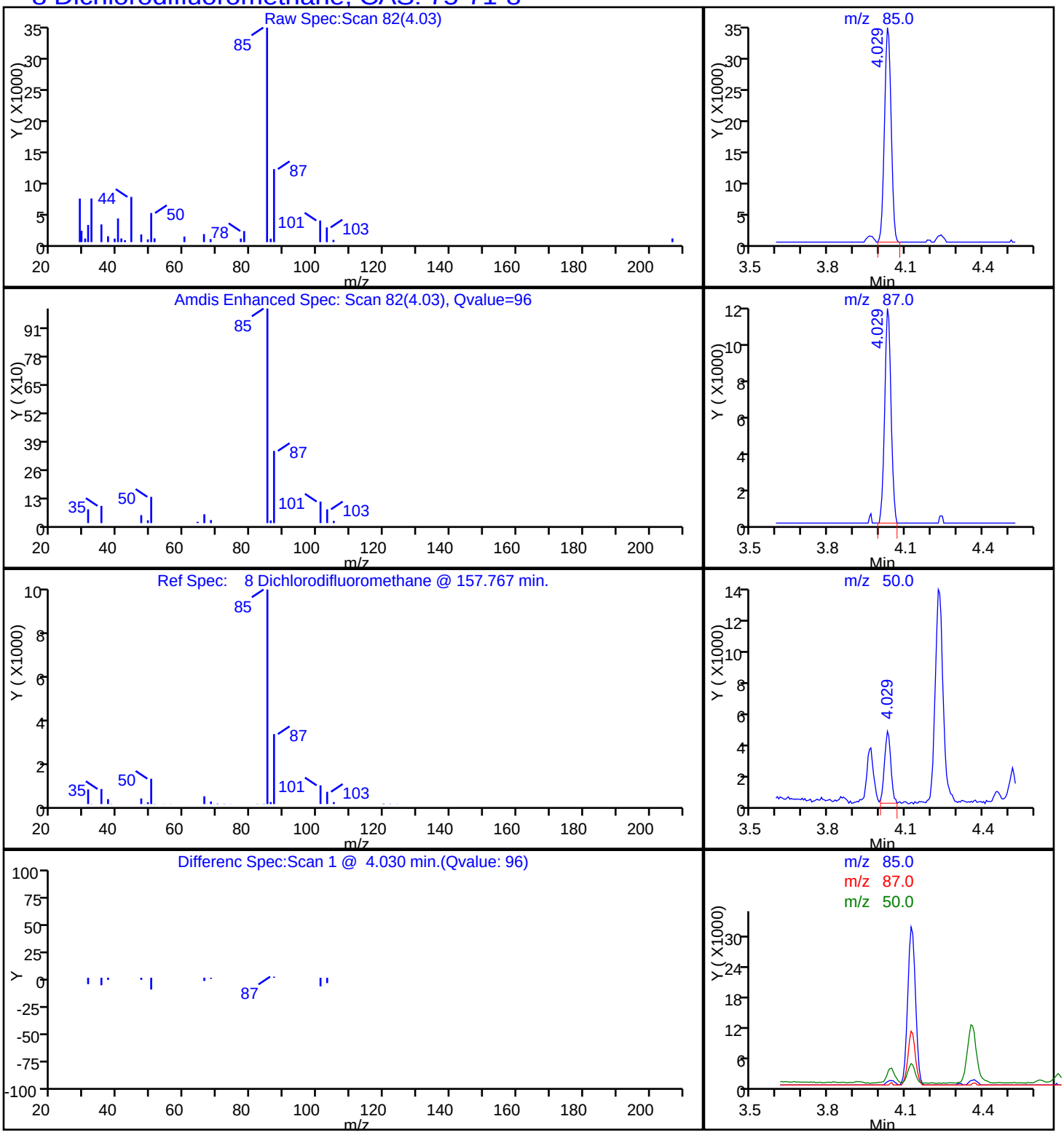
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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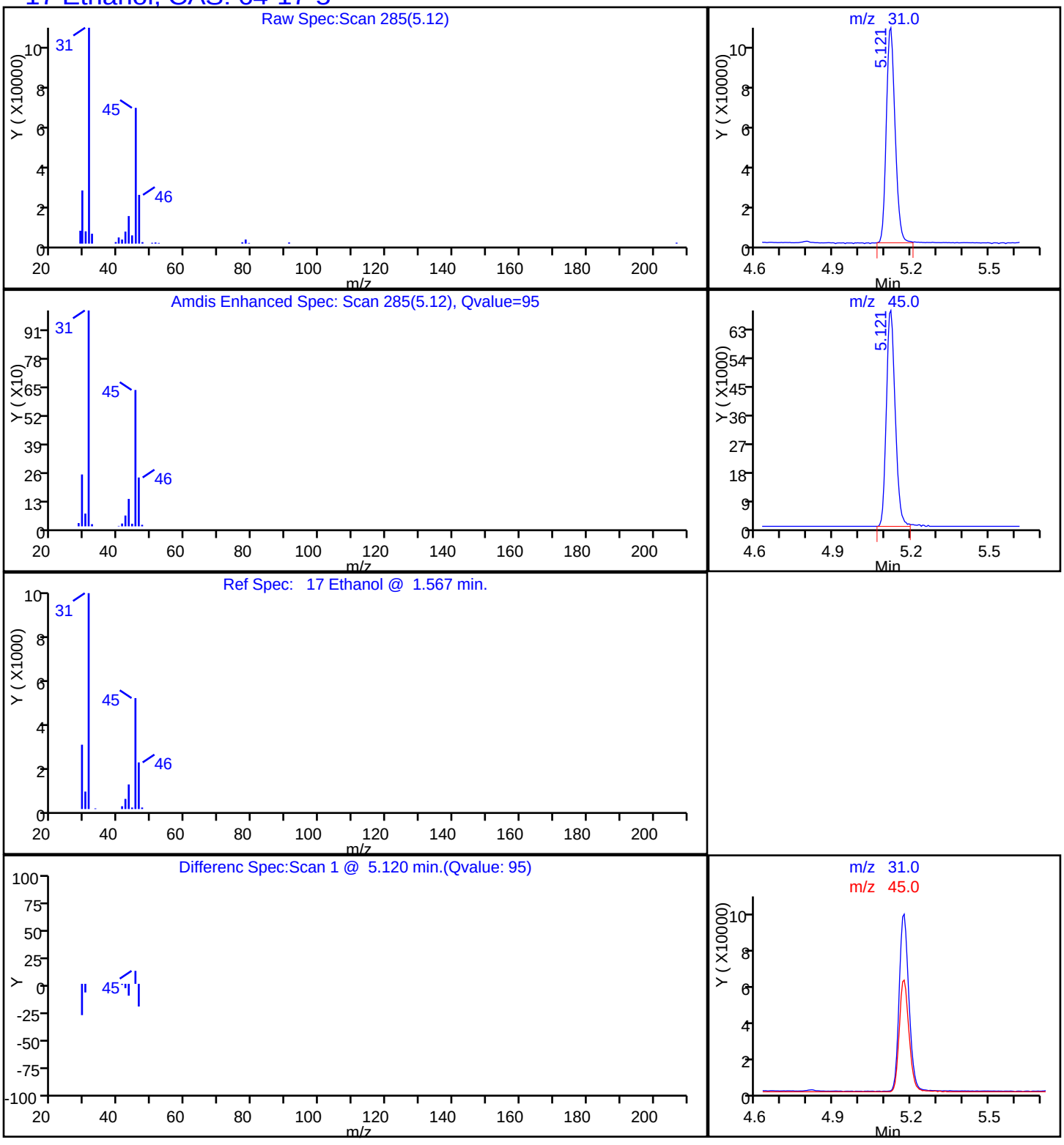
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



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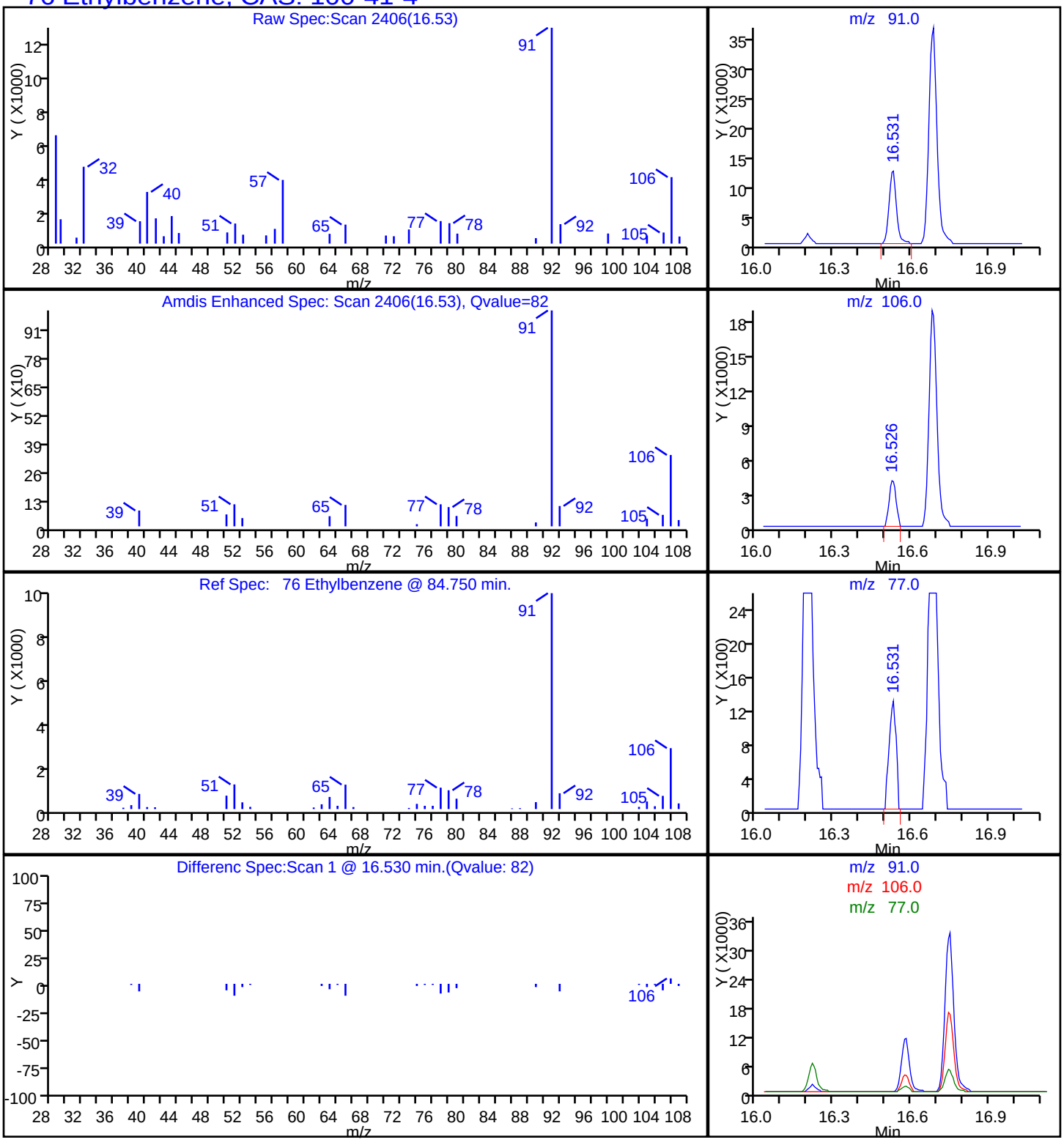
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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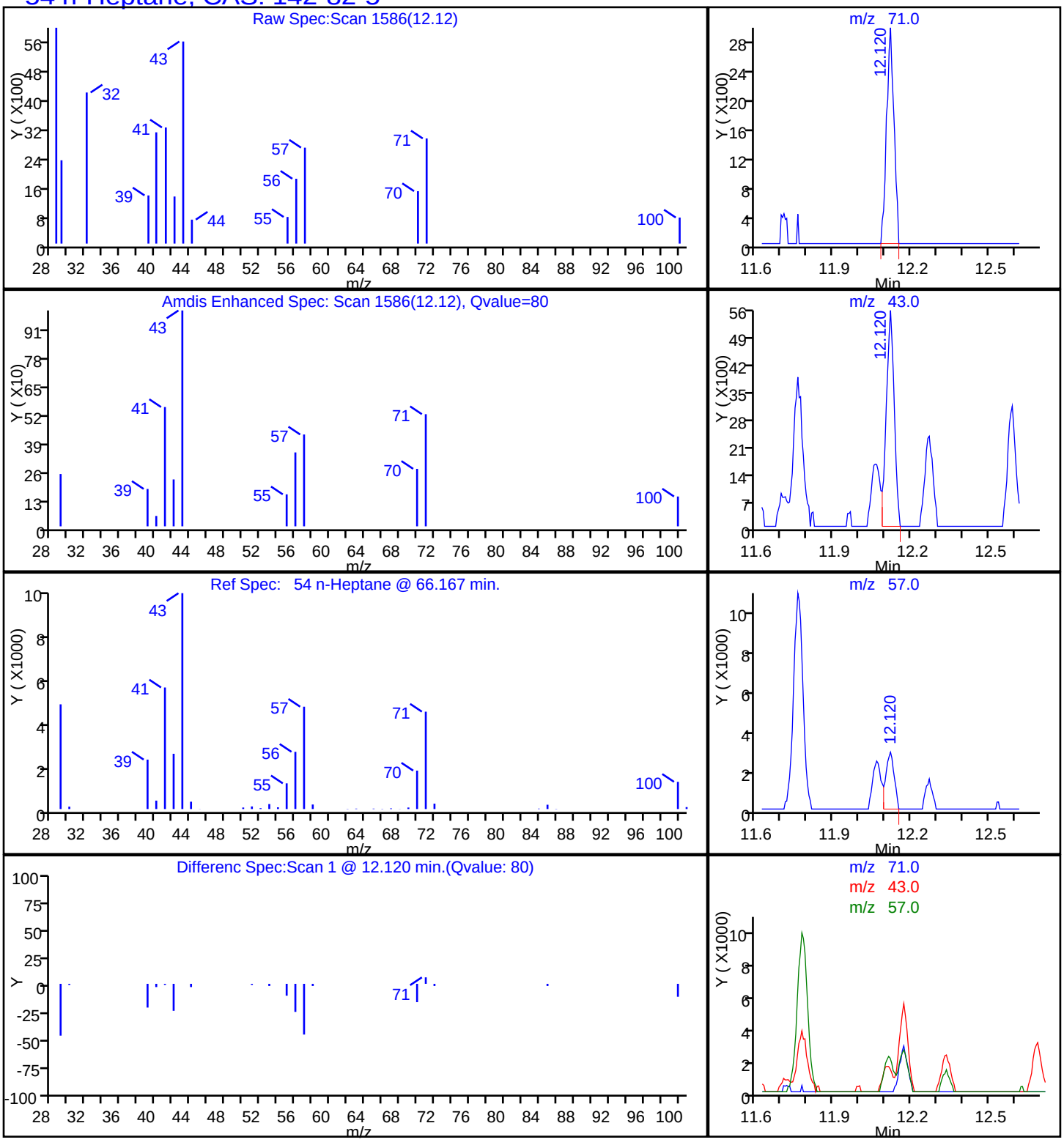
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



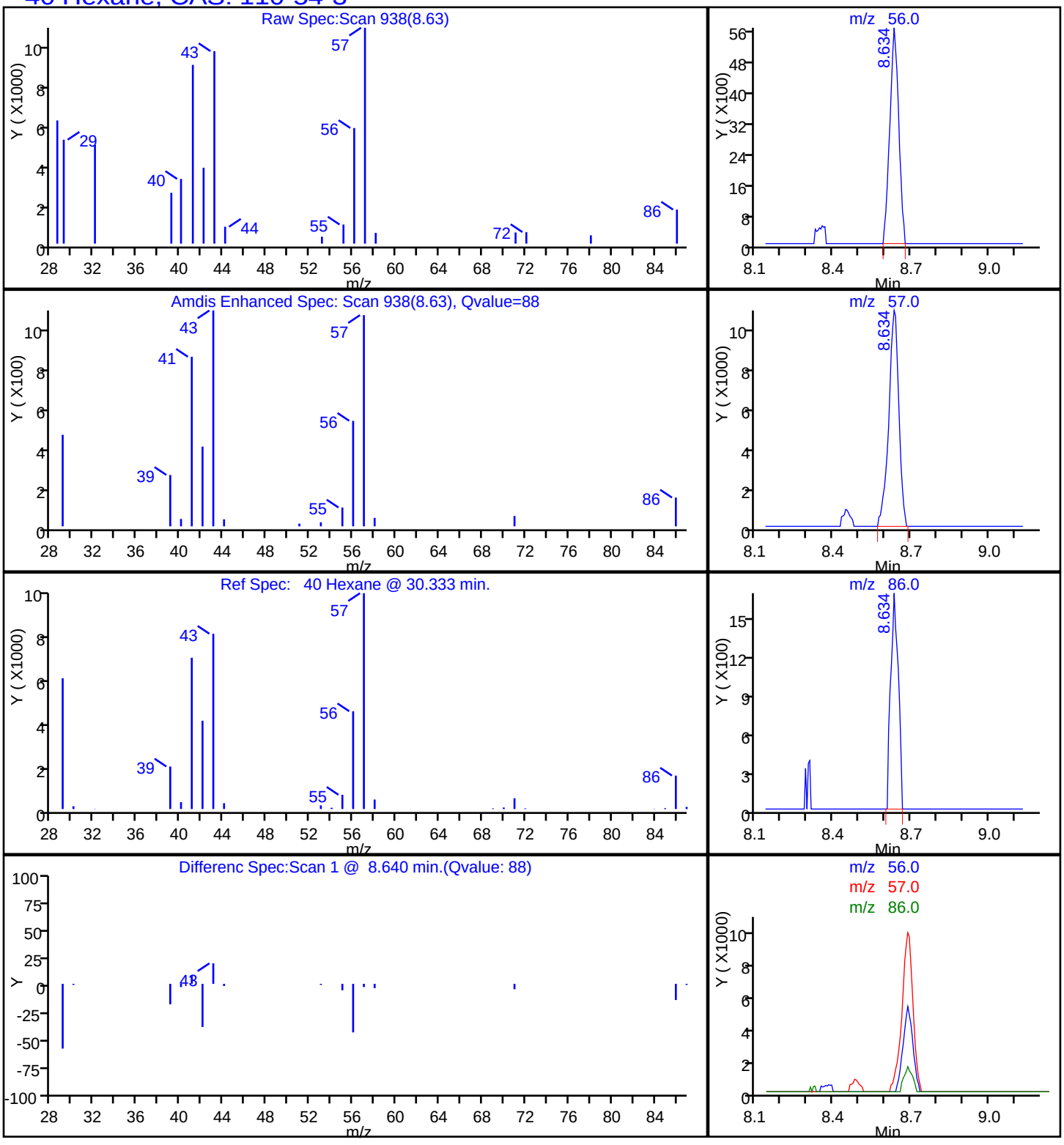
Report Date: 19-Mar-2014 13:05:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30 Instrument ID: MJ

Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

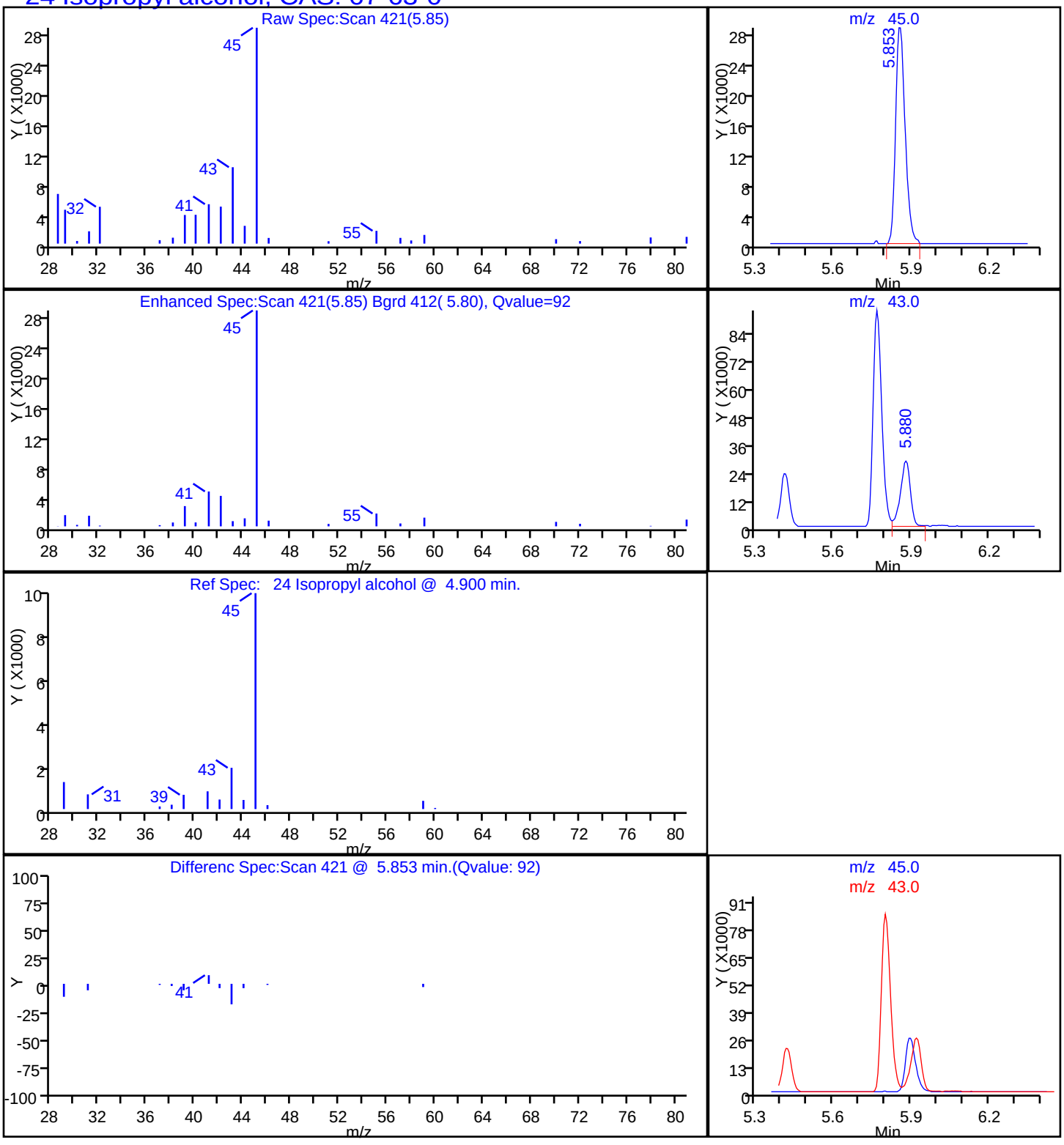
Operator ID: 403648 ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



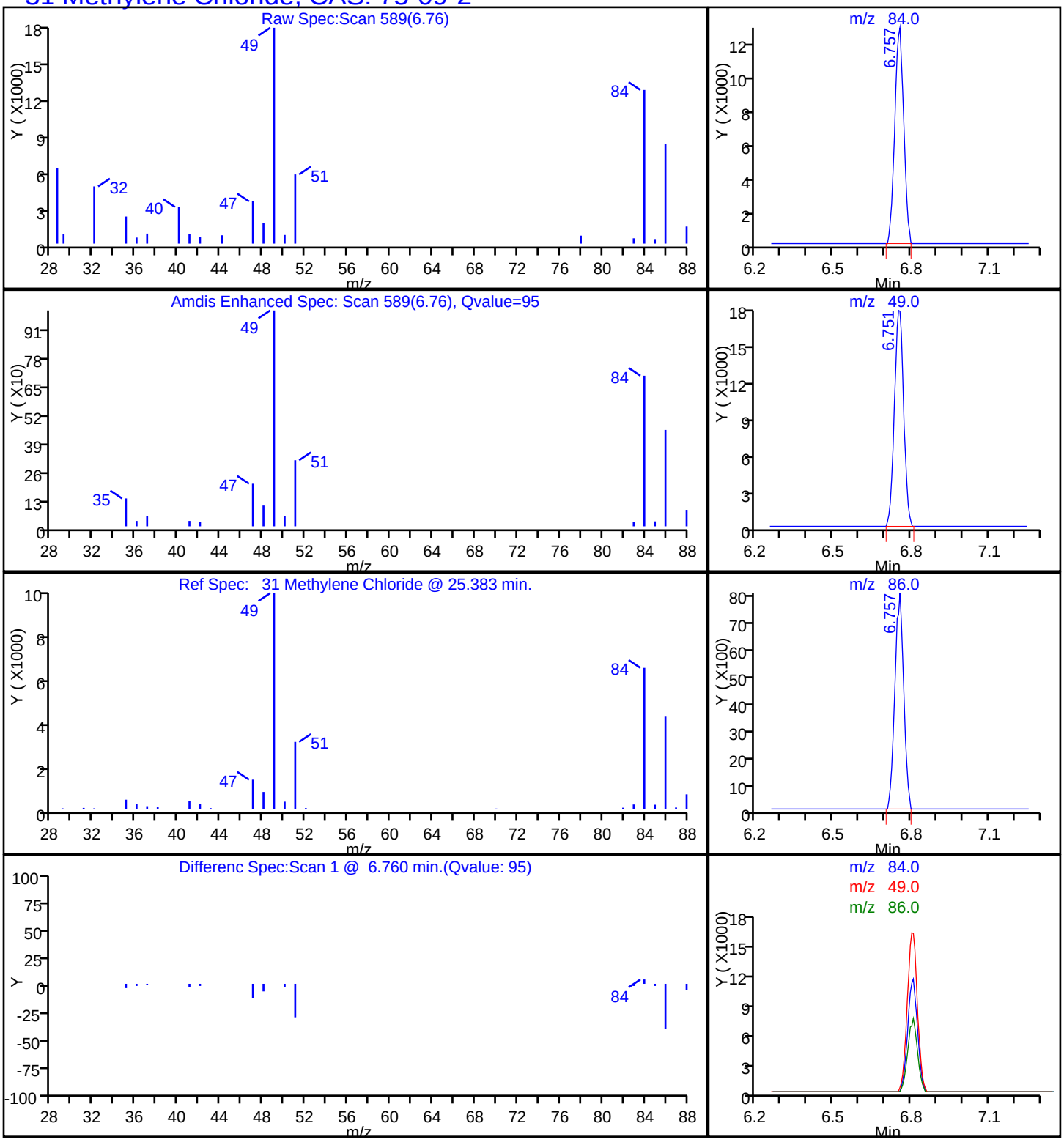
Report Date: 19-Mar-2014 13:05:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



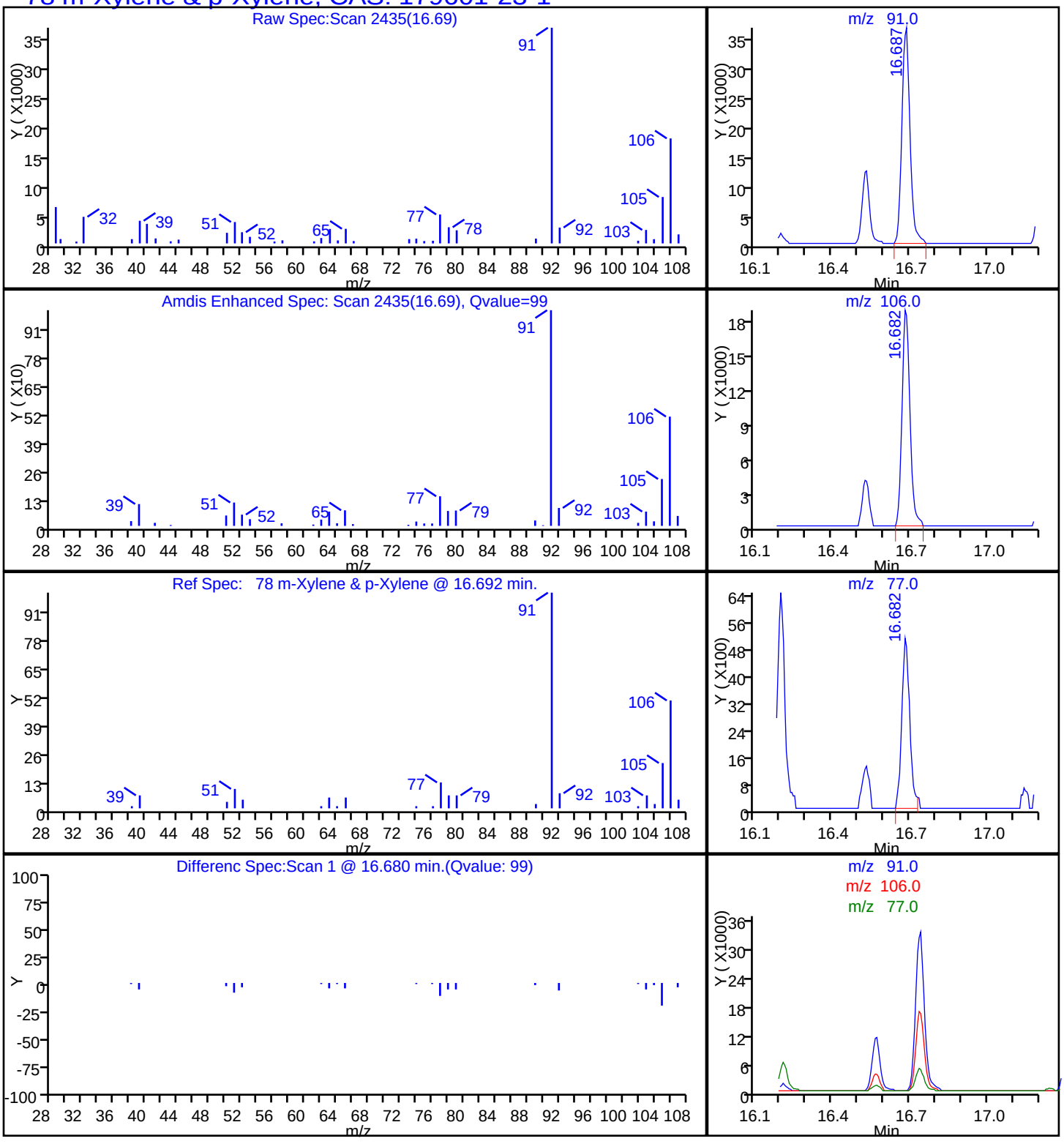
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



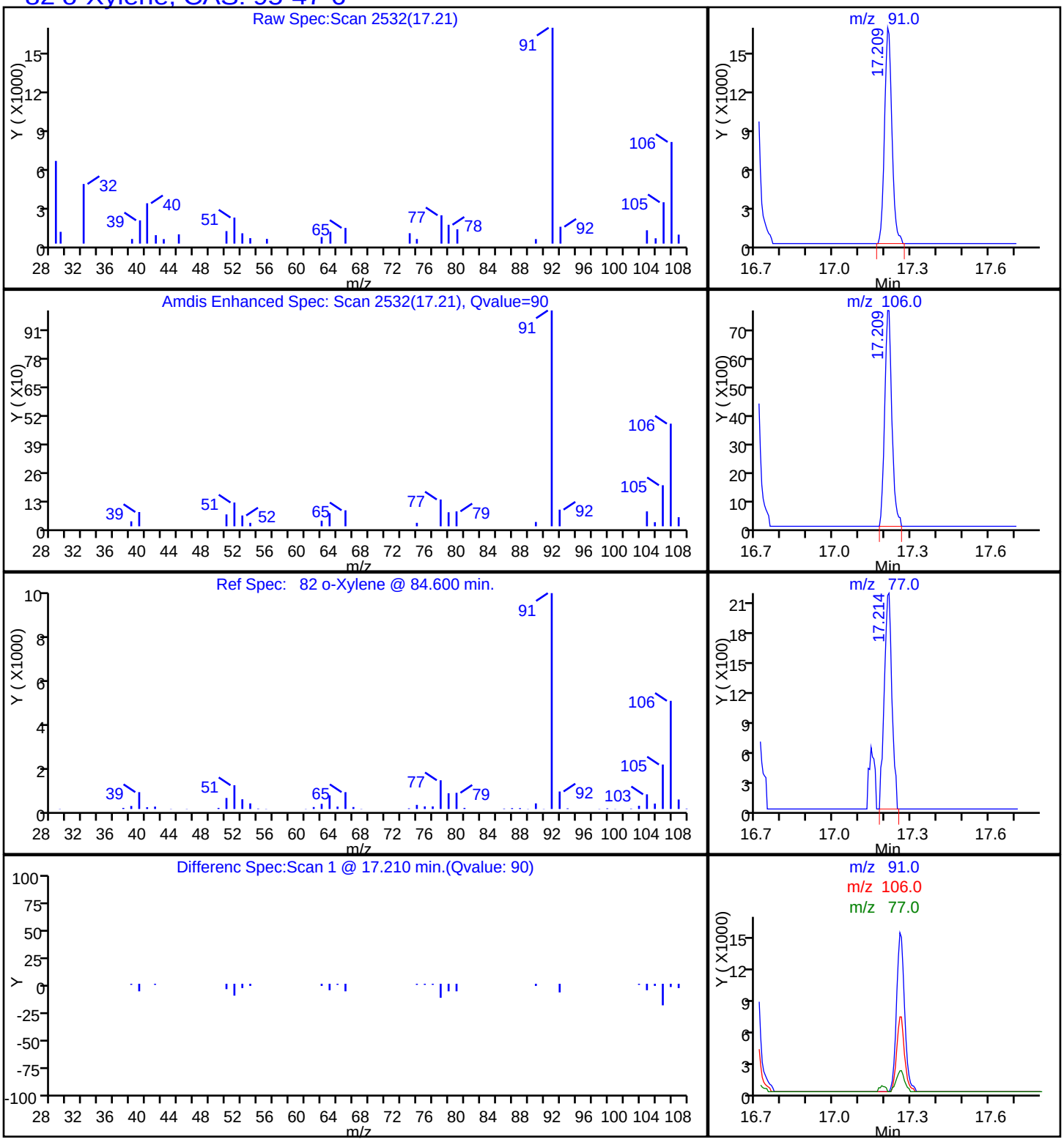
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



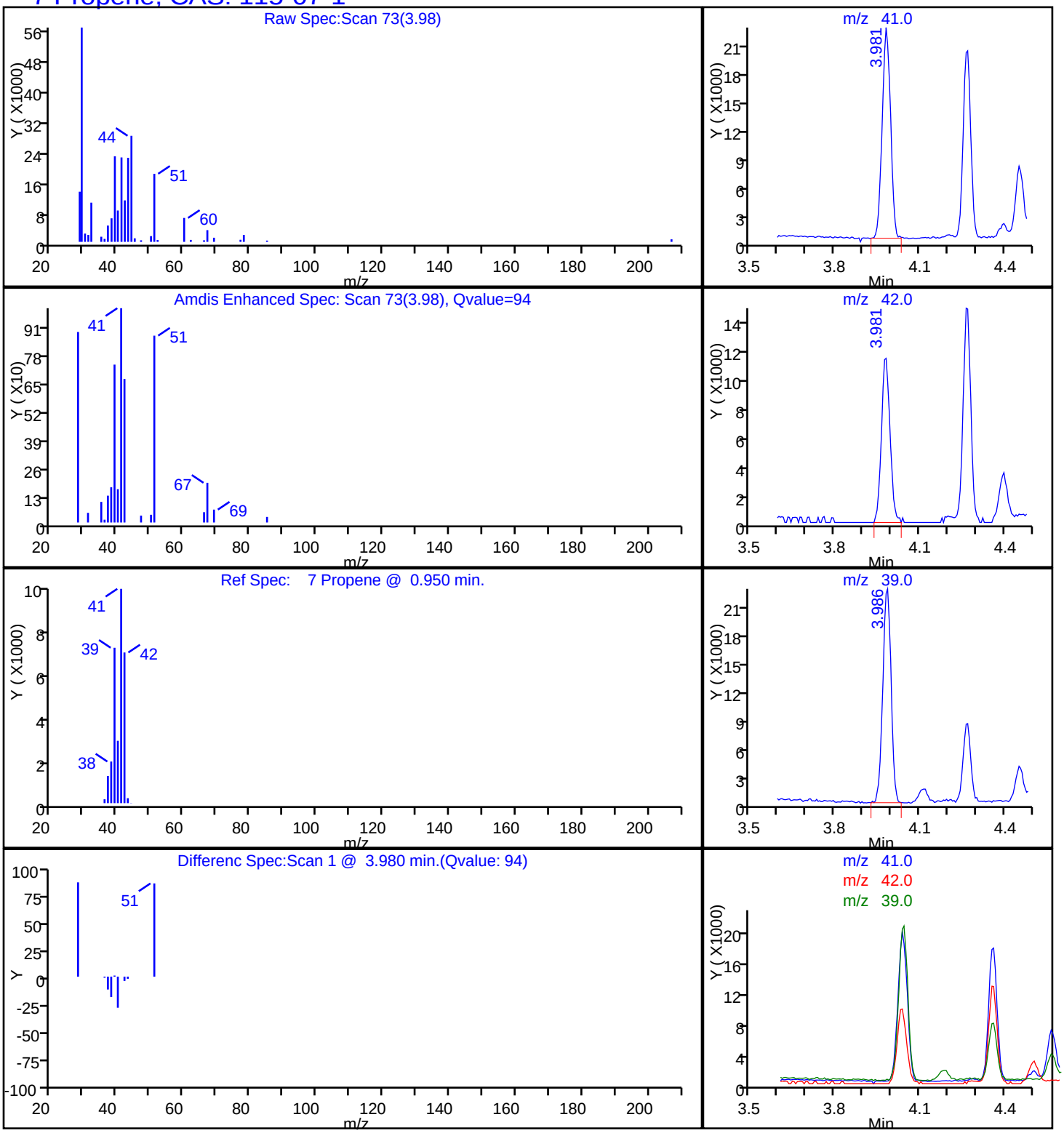
Report Date: 19-Mar-2014 13:05:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



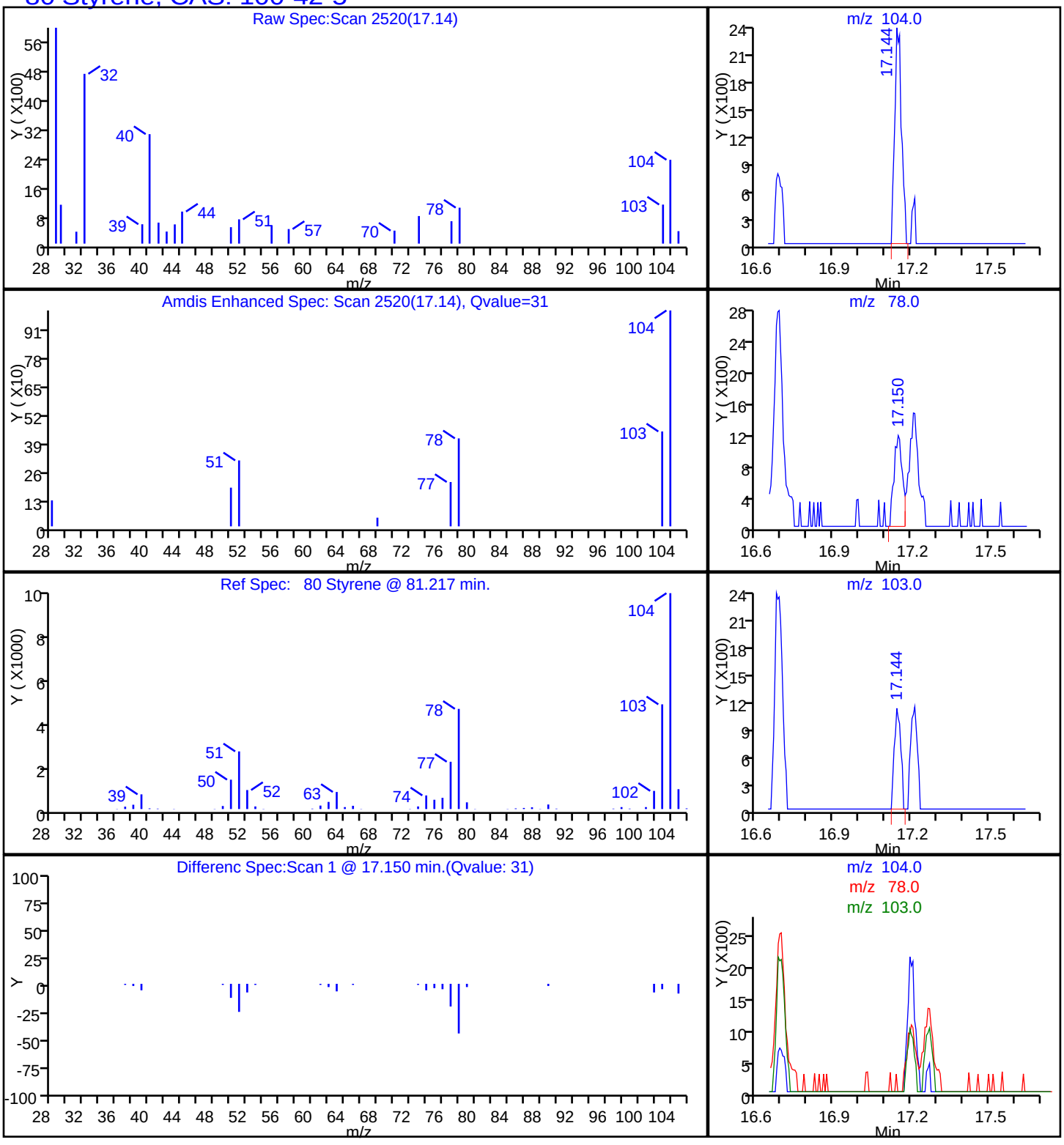
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



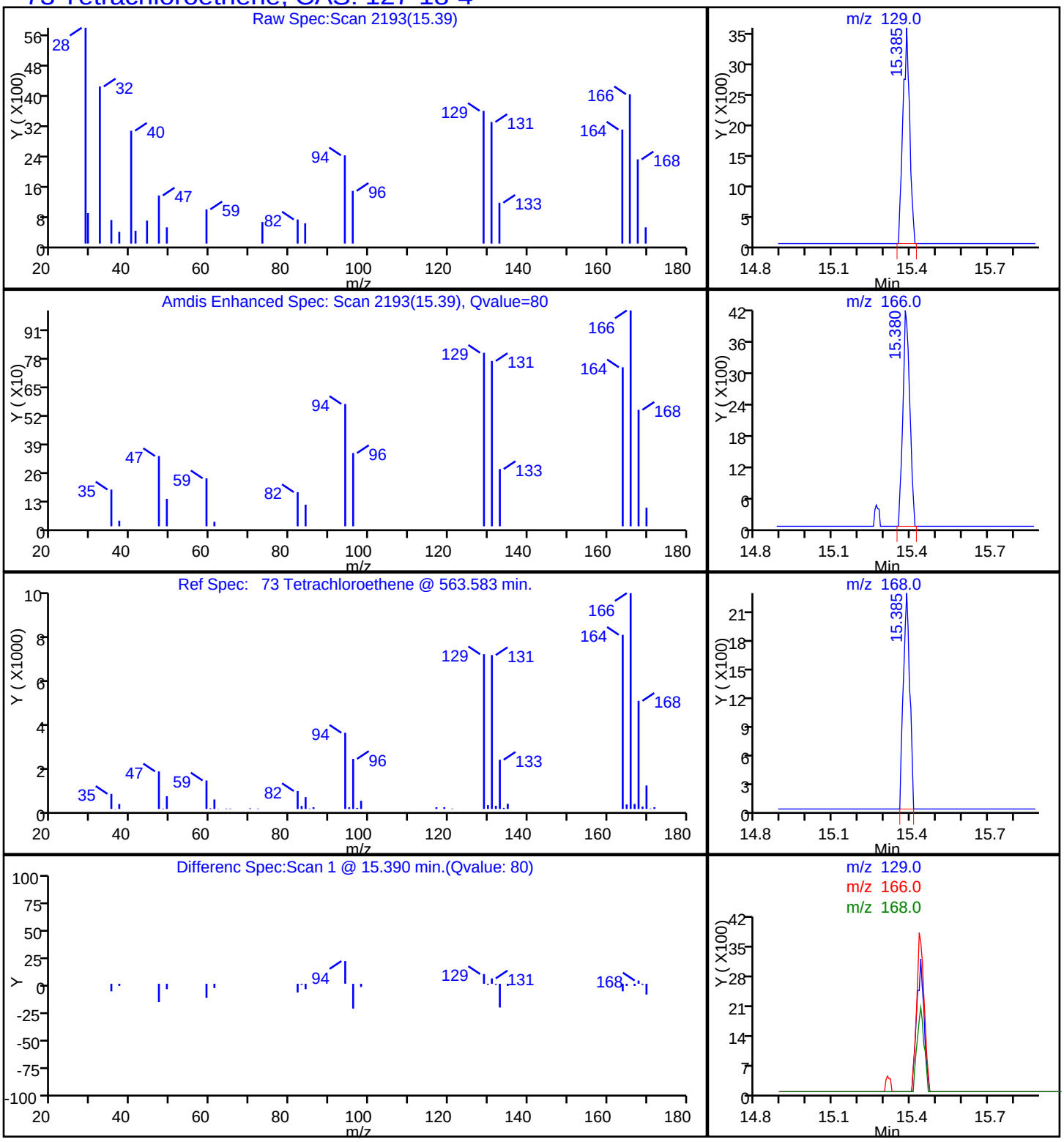
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



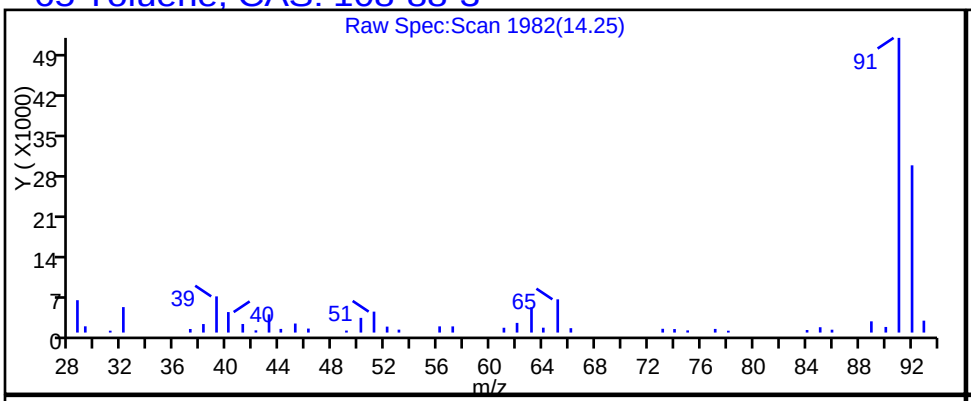
Report Date: 19-Mar-2014 13:05:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

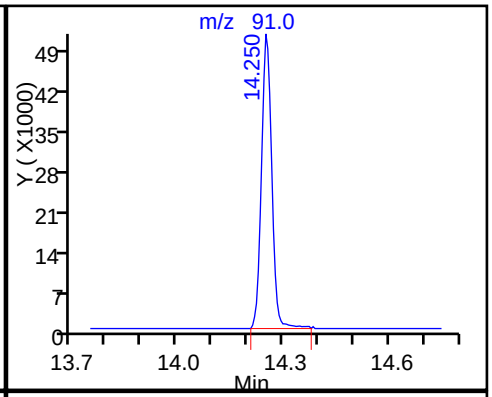
TestAmerica Knoxville

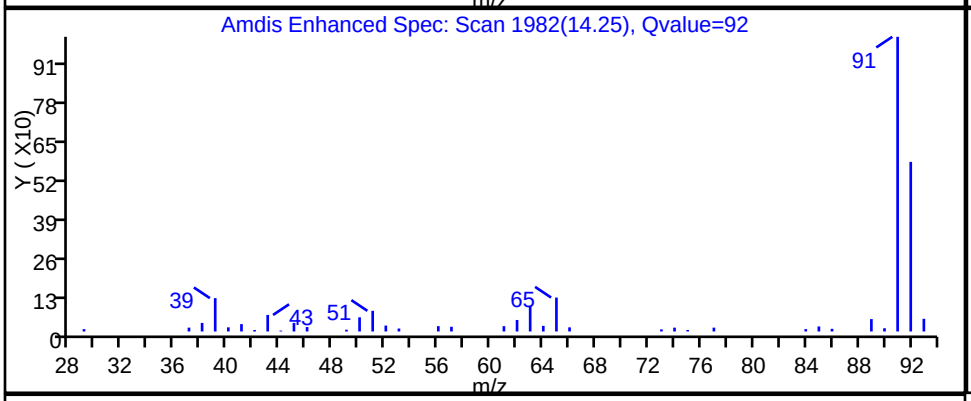
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

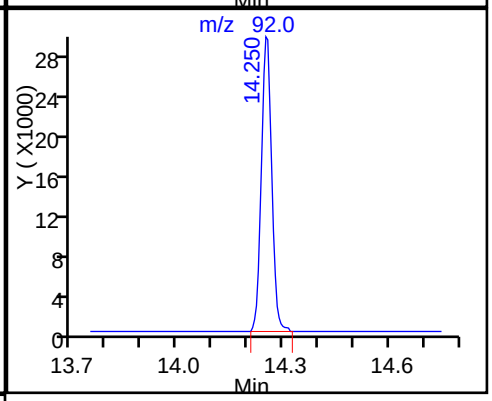
Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

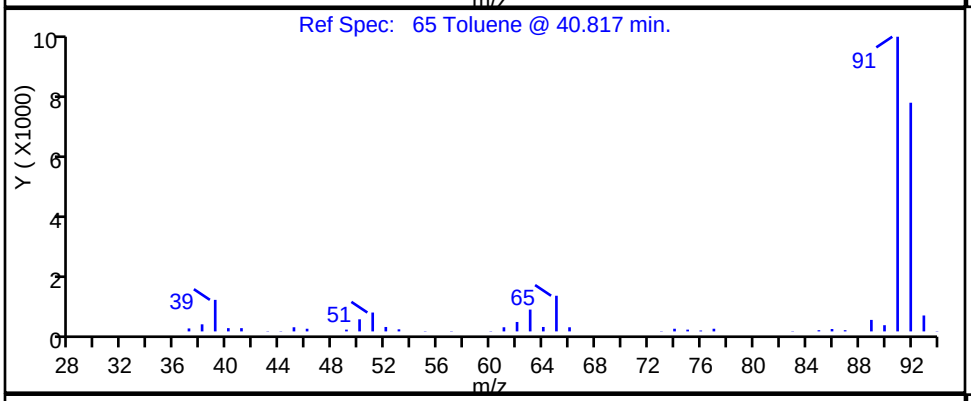
65 Toluene, CAS: 108-88-3

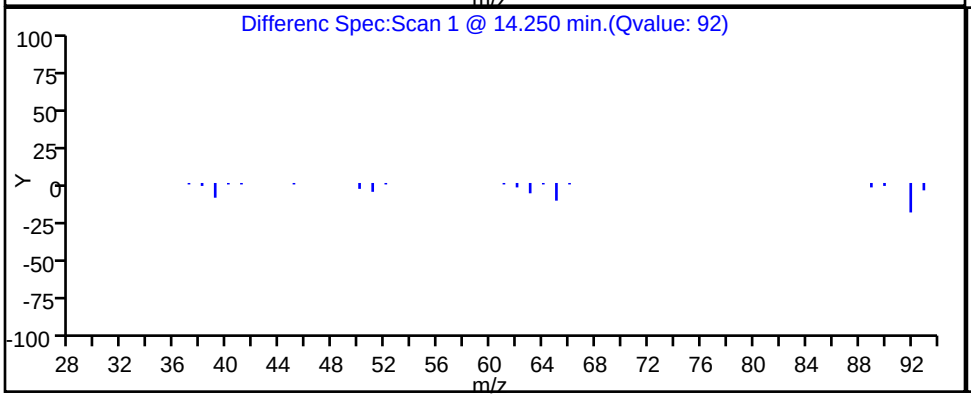


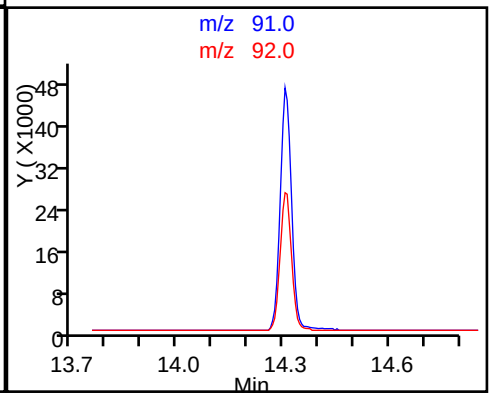












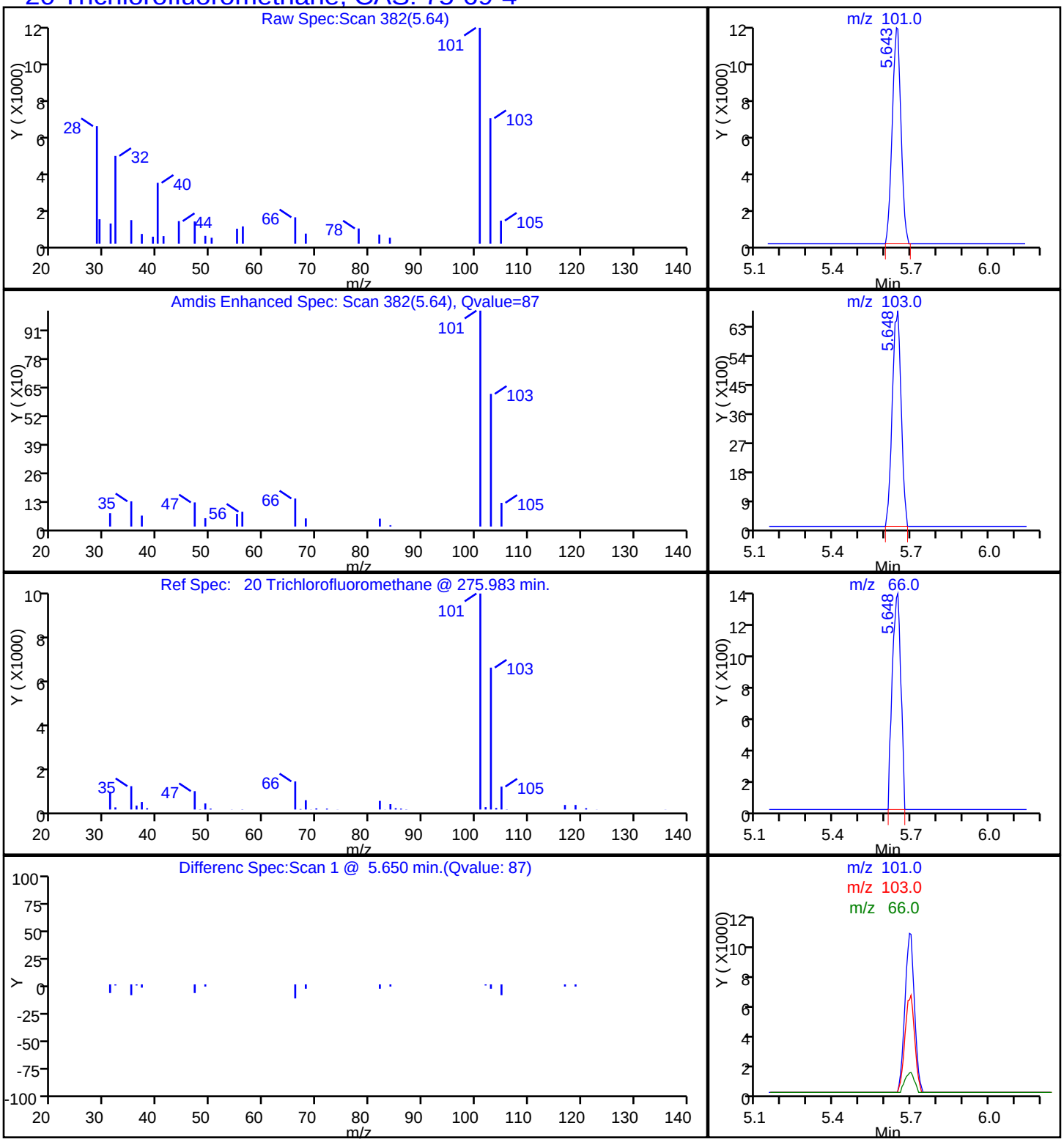
Report Date: 19-Mar-2014 13:05:27 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date:	19-Mar-2014 05:07:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-9	Lab Sample ID:	140-1063-9		
Client ID:	PCV-IA3-B7				
Operator ID:	403648	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.096	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.17	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	0.099	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	2.5		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.40		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.17	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.34	J	0.50	0.045
67-64-1	Acetone	58.08	8.5		5.0	1.4
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.14	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.57		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.13	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	160		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.21		0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.50		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.7		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.60		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.79		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.32		0.20	0.061
115-07-1	Propene	42.08	5.1	cn	0.50	0.077
100-42-5	Styrene	104.15	0.070	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.20		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.2		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.79	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.58	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.77	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.3		2.9	0.59
591-78-6	2-Hexanone	100.20	0.41	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	7.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.4		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.85	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4	J	2.0	0.18
67-64-1	Acetone	58.08	20		12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.67	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.43	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	290		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.90		0.87	0.30
142-82-5	Heptane	100.21	0.77	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.8		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	21		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.1		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	8.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.30	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.3		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10

Matrix: Air Lab File ID: JC18P212.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:34

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D
Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10
Client ID: PCV-IA1-B11
Sample Type: Client
Inject. Date: 19-Mar-2014 06:01:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-10
Misc. Info.: J031814,TO15,,140-0000527-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:57:17 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: liul Date: 20-Mar-2014 14:57:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.388	-0.005	90	356594	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.539	-0.004	94	1636233	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1357067	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.817	0.001	91	900147	3.75	
7 Propene	41	3.987	3.971	0.016	88	222412	2.03	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	62252	0.1762	
9 Chloromethane	52	4.235	4.229	0.006	97	9179	0.2288	M
17 Ethanol	31	5.122	5.116	0.006	94	1778110	62.1	
19 2-Methylbutane	43	5.407	5.407	0.0	93	149083	0.9844	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	88	26808	0.0864	
23 Acetone	58	5.763	5.767	-0.005	92	171710	3.39	
24 Isopropyl alcohol	45	5.854	5.848	0.006	98	467804	3.49	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.580	0.0	69	5561	0.0259	
31 Methylene Chloride	84	6.752	6.757	-0.005	90	22759	0.2386	
35 2-Methylpentane	43	7.624	7.623	0.001	94	44261	0.1609	
39 2-Butanone (MEK)	72	8.597	8.586	0.011	96	15162	0.4492	
40 Hexane	56	8.635	8.635	0.0	91	19078	0.1990	
43 Chloroform	83	9.394	9.393	0.001	15	11449	0.0551	
48 Benzene	78	11.024	11.023	0.001	94	43896	0.1564	
49 Cyclohexane	69	11.034	11.034	0.0	41	2778	0.0501	
50 Carbon tetrachloride	117	11.045	11.050	-0.005	86	6606	0.0285	
53 Isooctane	57	11.766	11.760	0.006	90	31783	0.0663	
54 n-Heptane	71	12.116	12.120	-0.004	82	7500	0.0755	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	88	23444	0.1367	
65 Toluene	91	14.251	14.256	-0.005	93	119466	0.4745	
69 2-Hexanone	58	14.687	14.681	0.006	49	3275	0.0397	
73 Tetrachloroethene	129	15.381	15.386	-0.005	81	9201	0.0785	
76 Ethylbenzene	91	16.527	16.532	-0.005	81	22981	0.0826	
78 m-Xylene & p-Xylene	91	16.683	16.688	-0.005	99	70794	0.3155	
80 Styrene	104	17.151	17.150	0.001	51	4322	0.0280	
82 o-Xylene	91	17.210	17.215	-0.005	90	29352	0.1290	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
88 4-Ethyltoluene	105	18.458	18.447	0.011	54	20967	0.0694	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	80	16969	0.0644	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	68	6220	0.0386	

QC Flag Legend

Review Flags
M - Manually Integrated

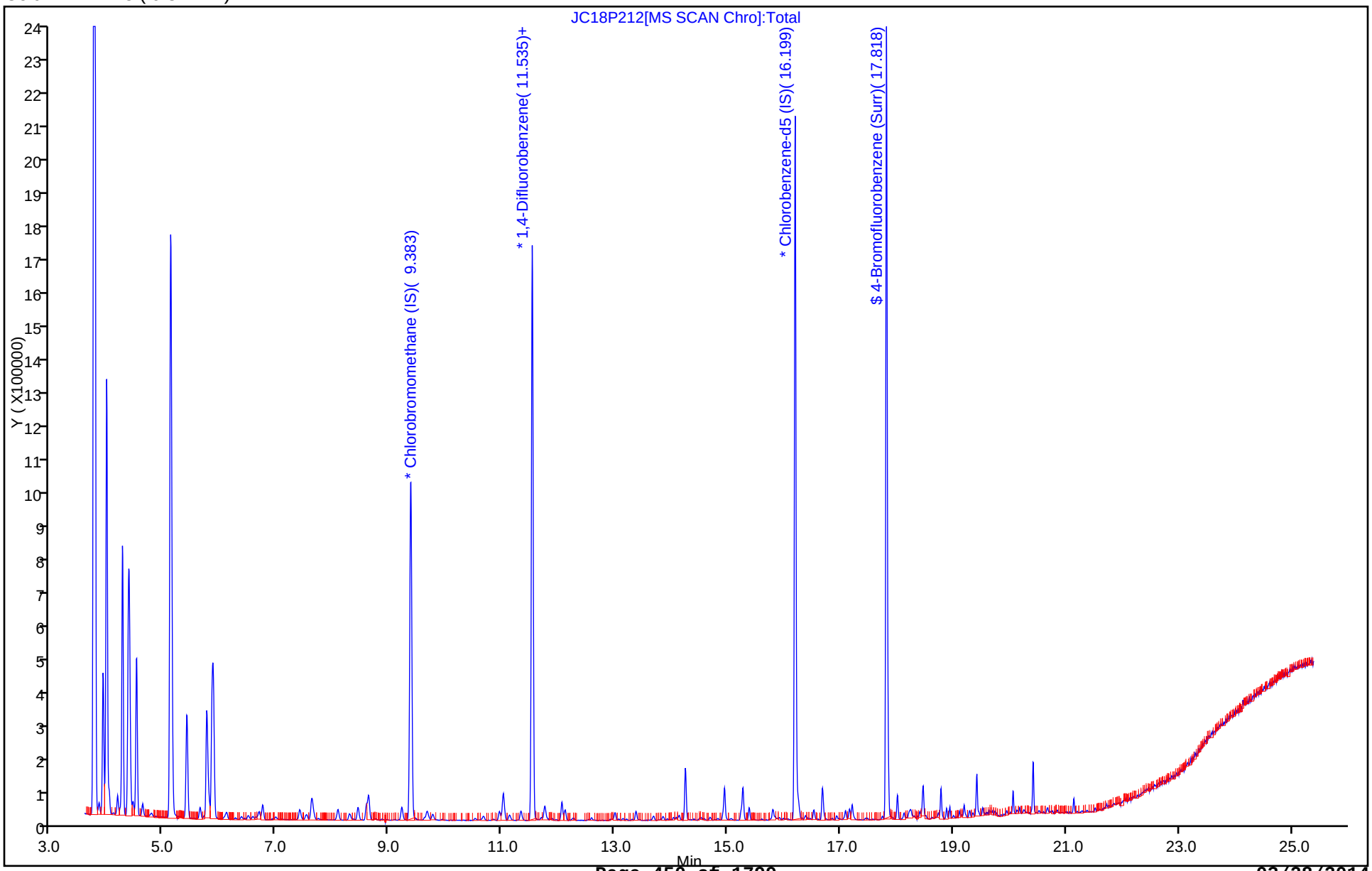
Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

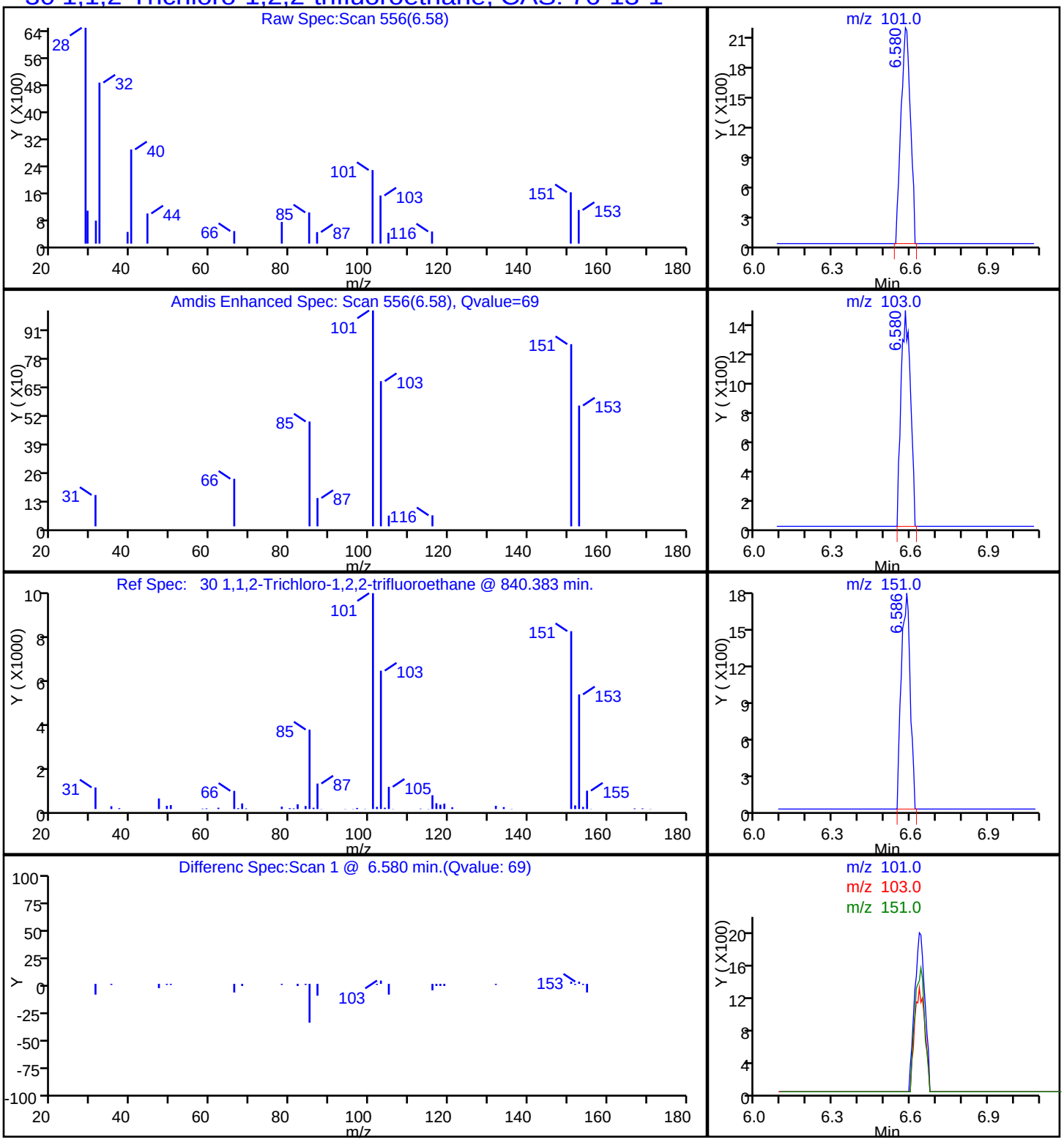
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10	Worklist Smp#:	18
Client ID:	PCV-IA1-B11				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D
Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ
Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10
Client ID: PCV-IA1-B11
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

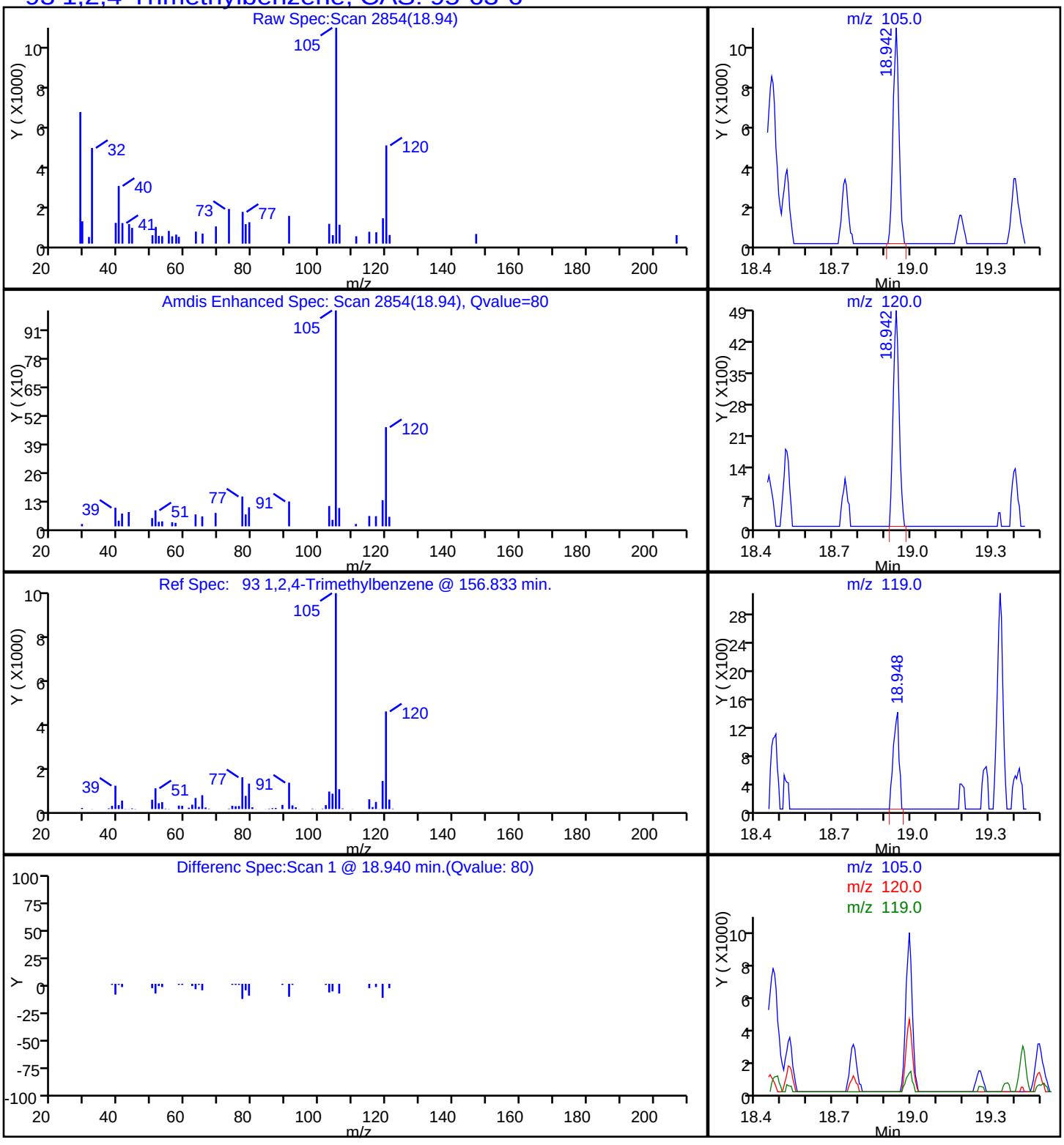


Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D		
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



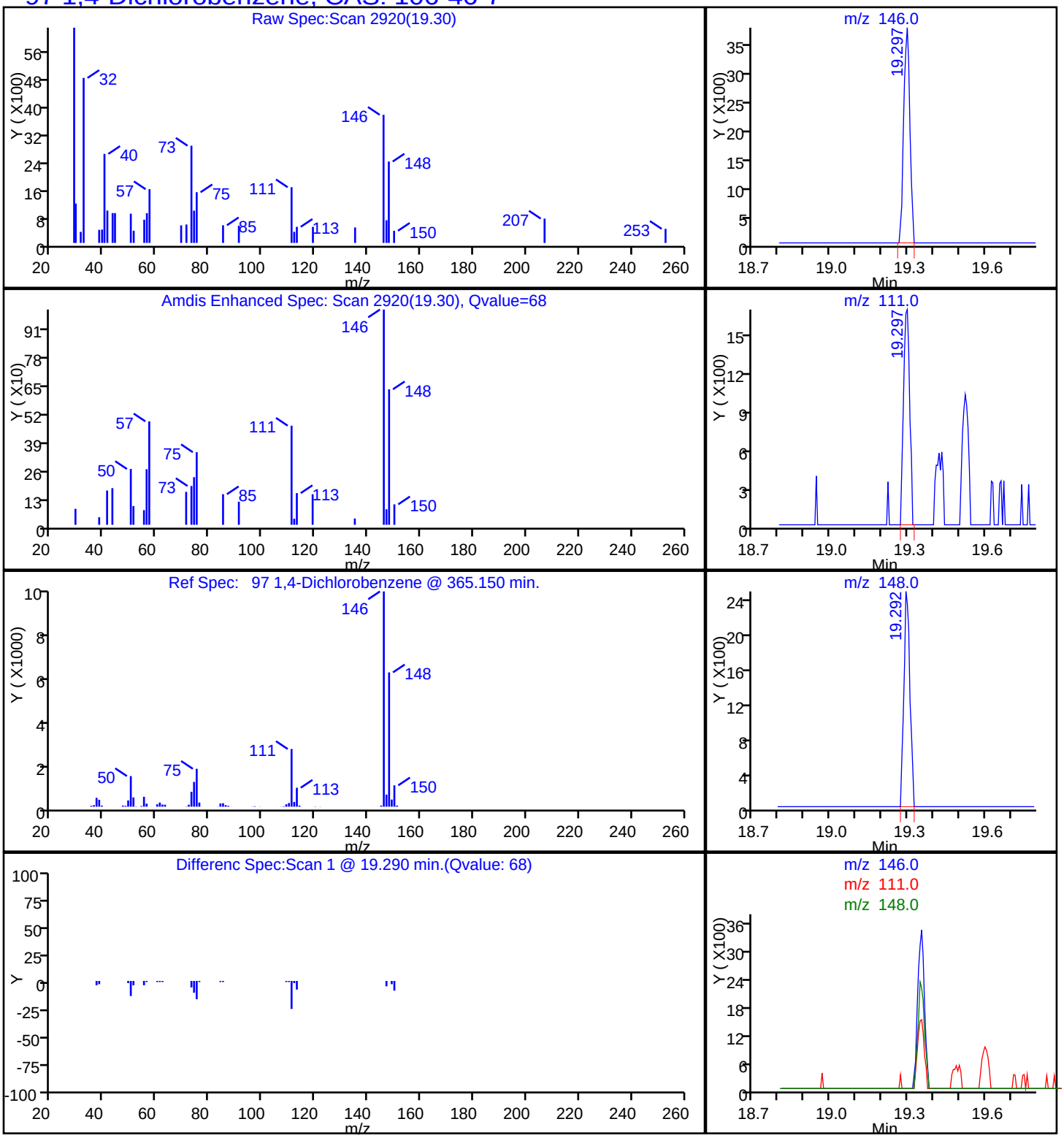
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

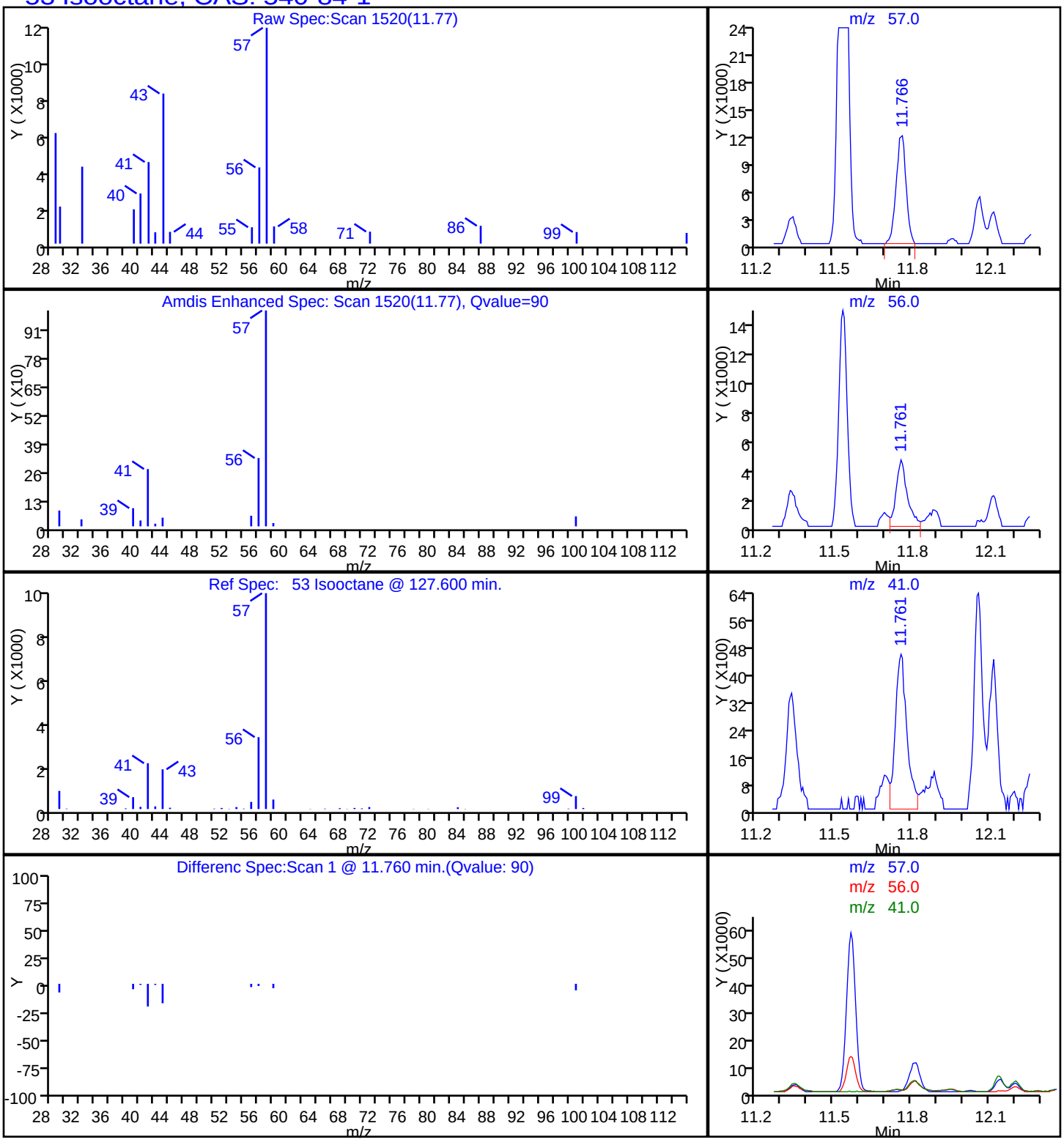
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



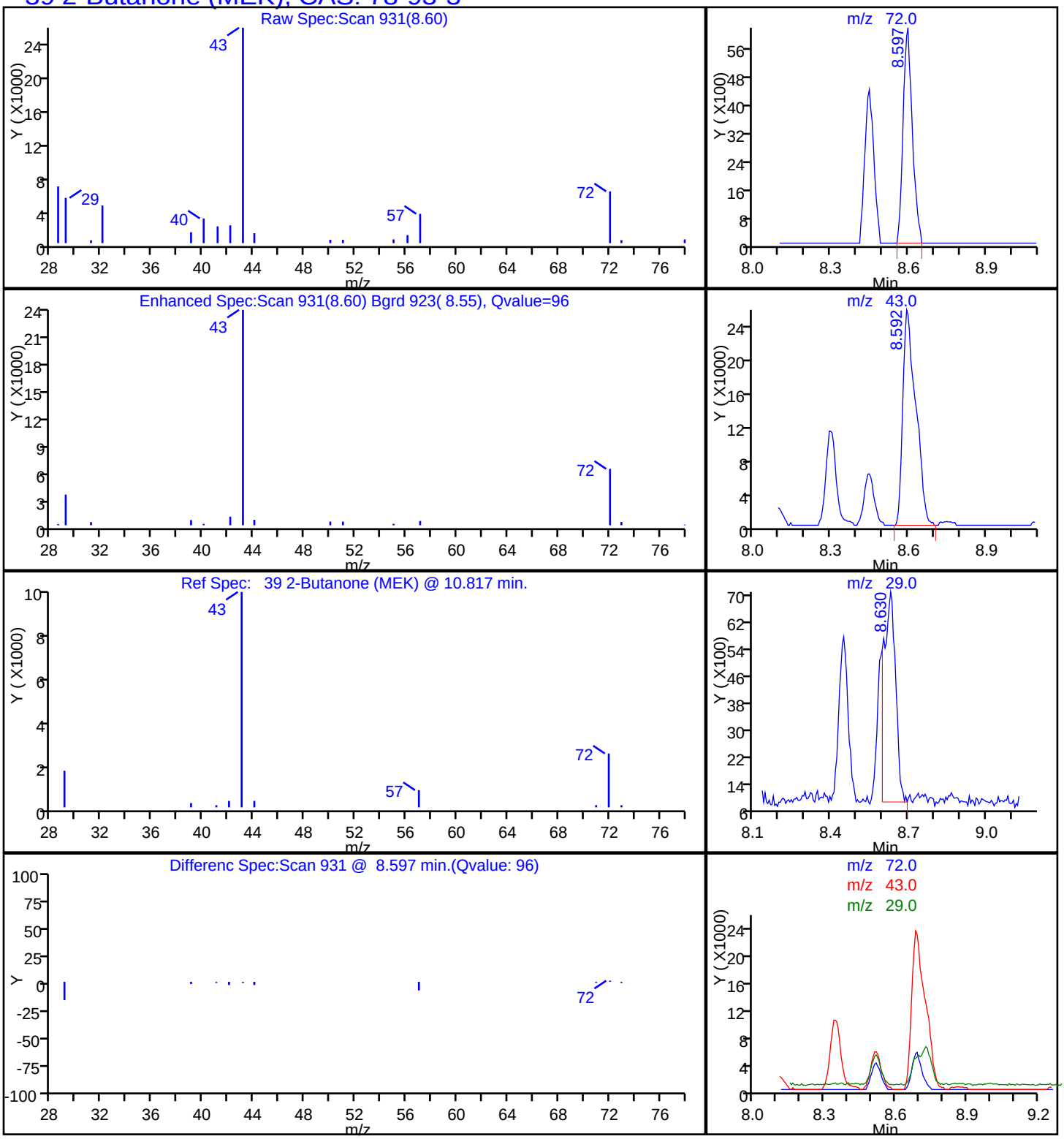
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

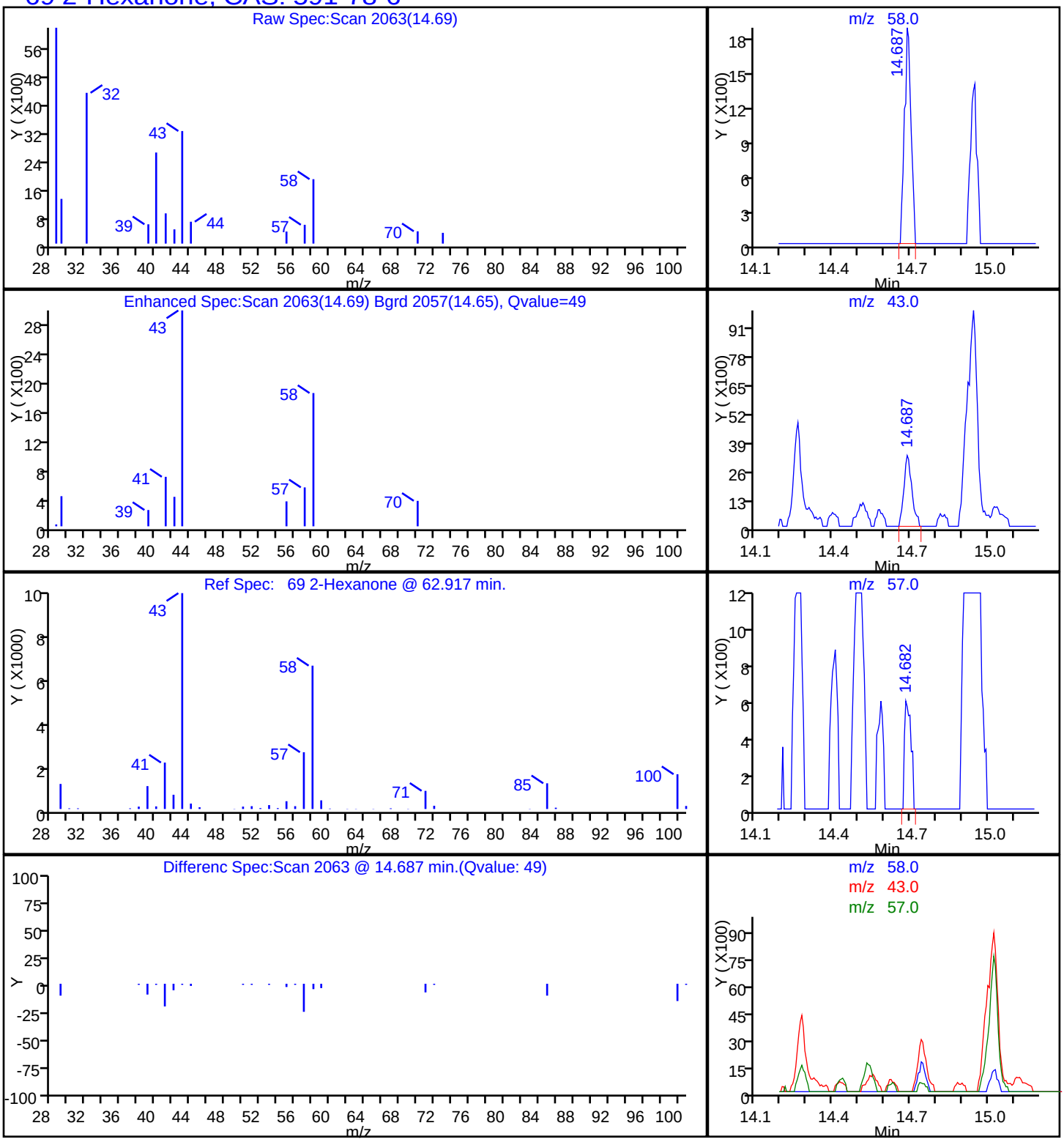
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

69 2-Hexanone, CAS: 591-78-6



Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

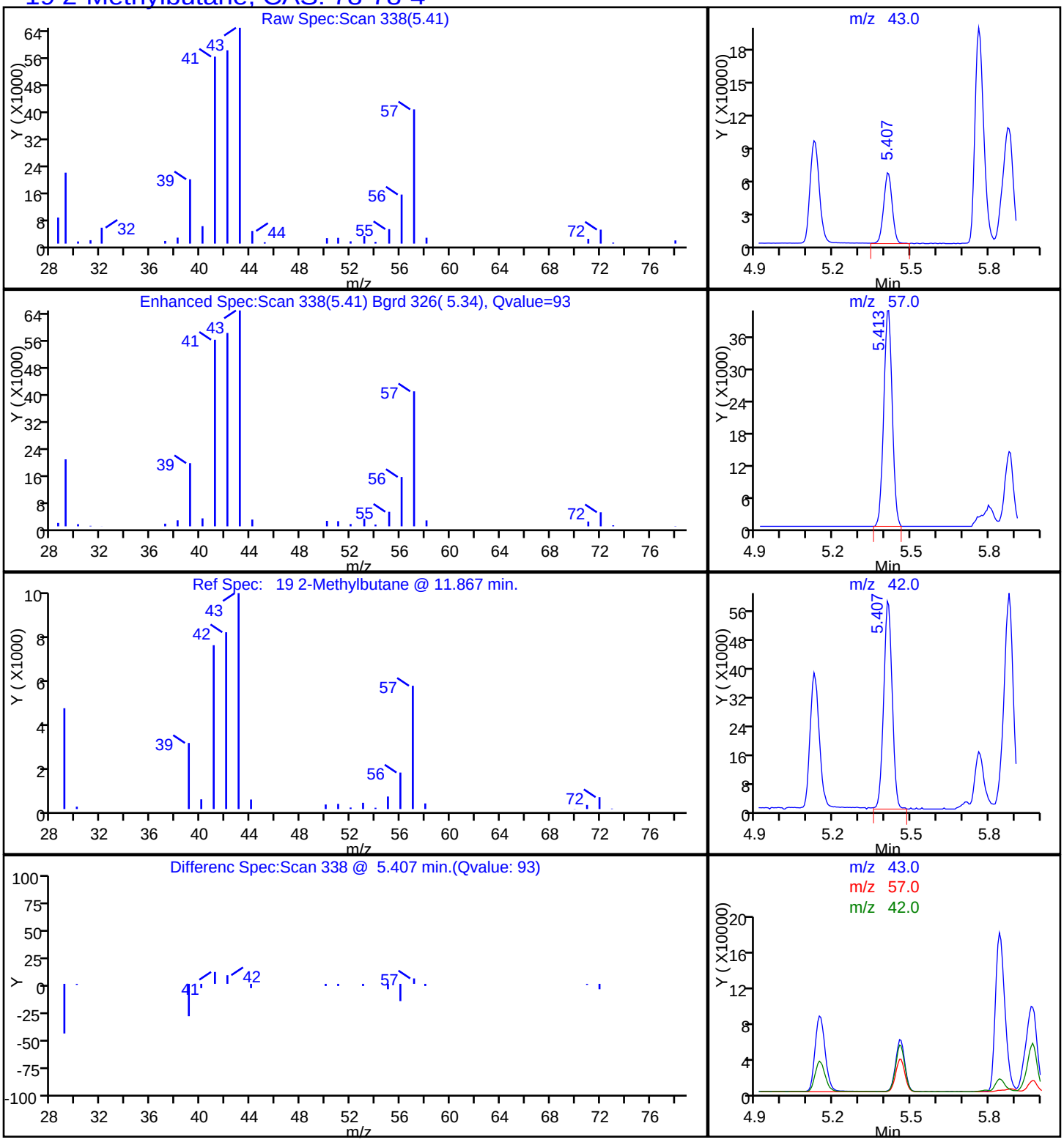
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



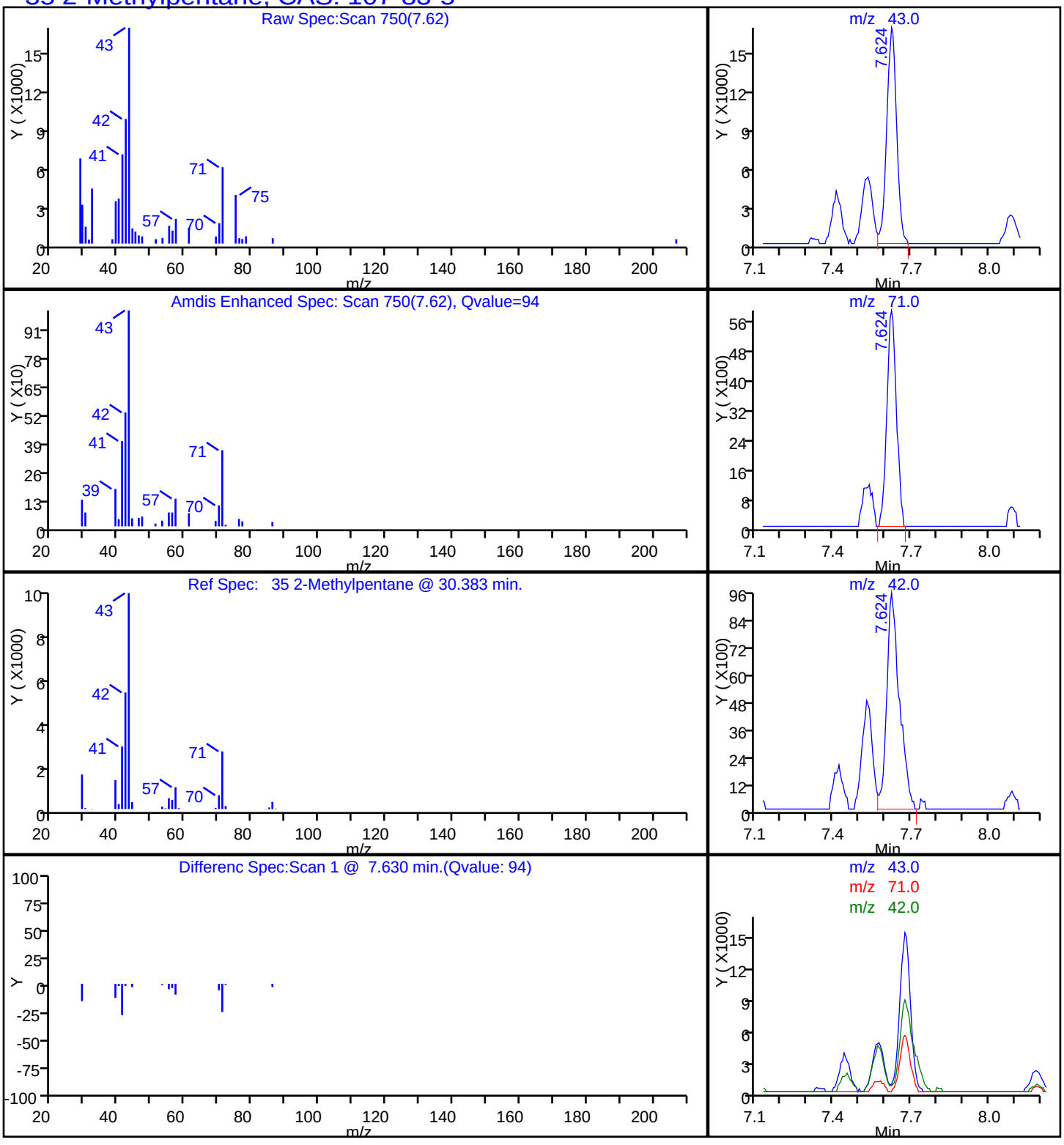
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

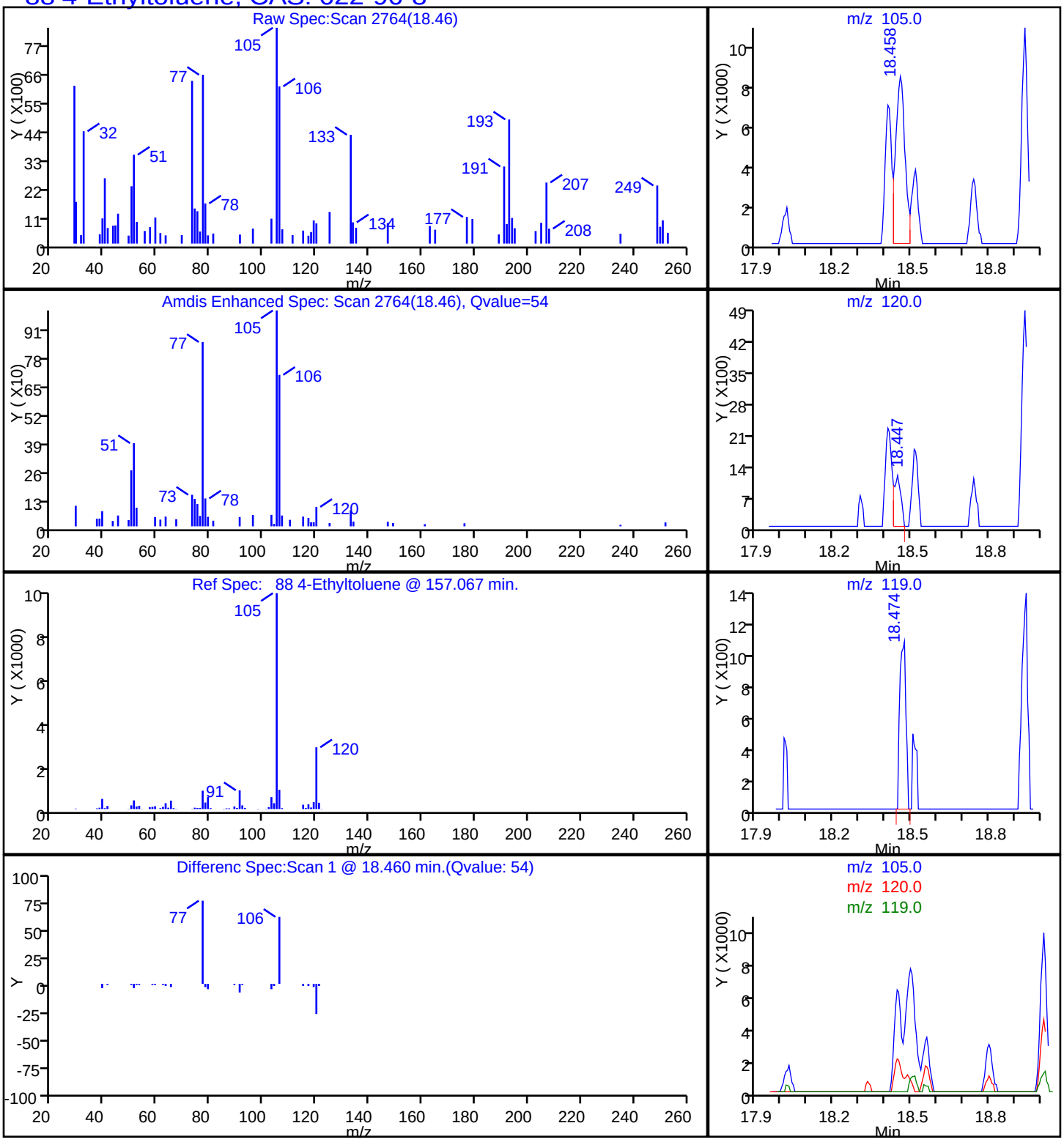
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



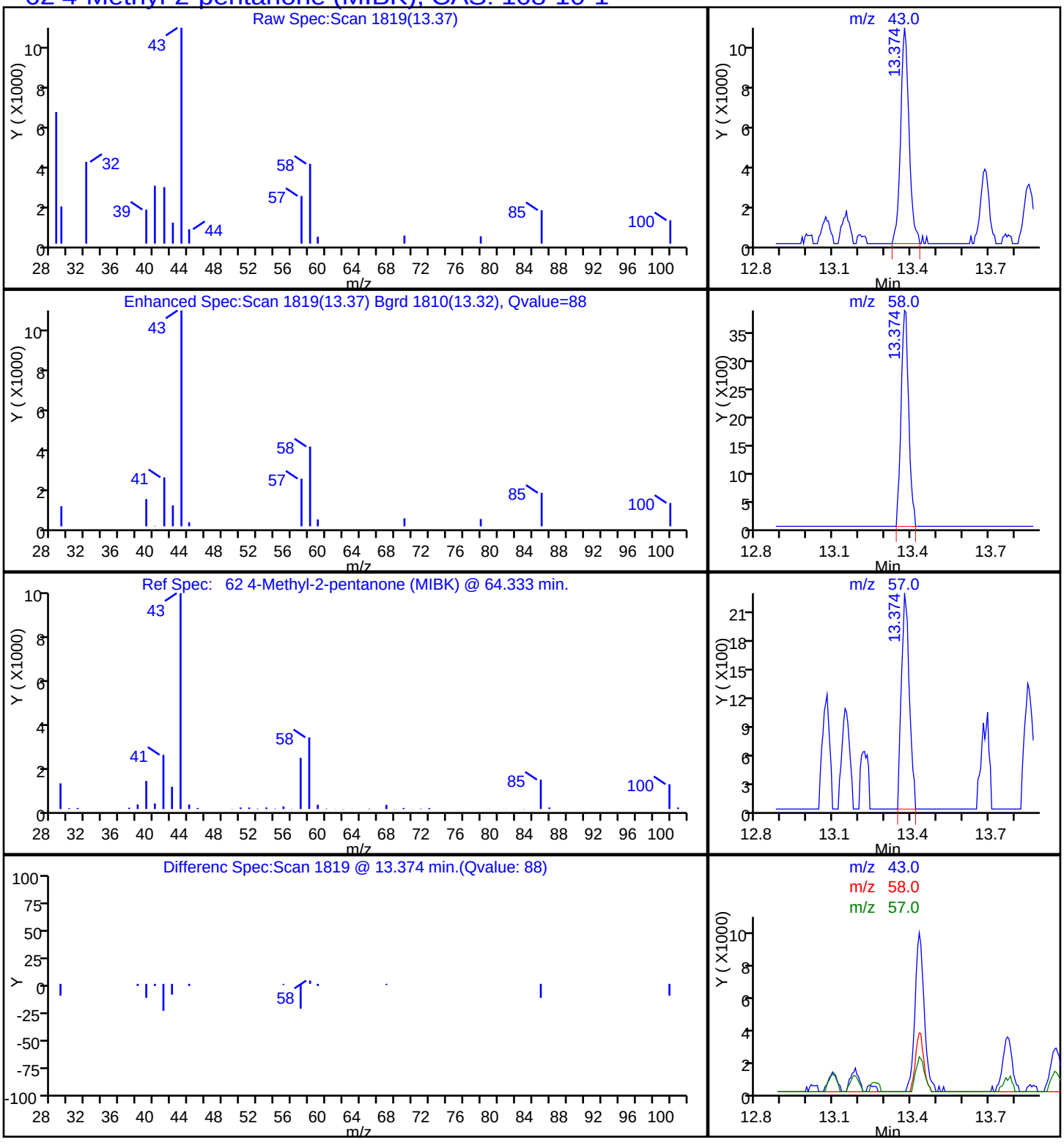
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



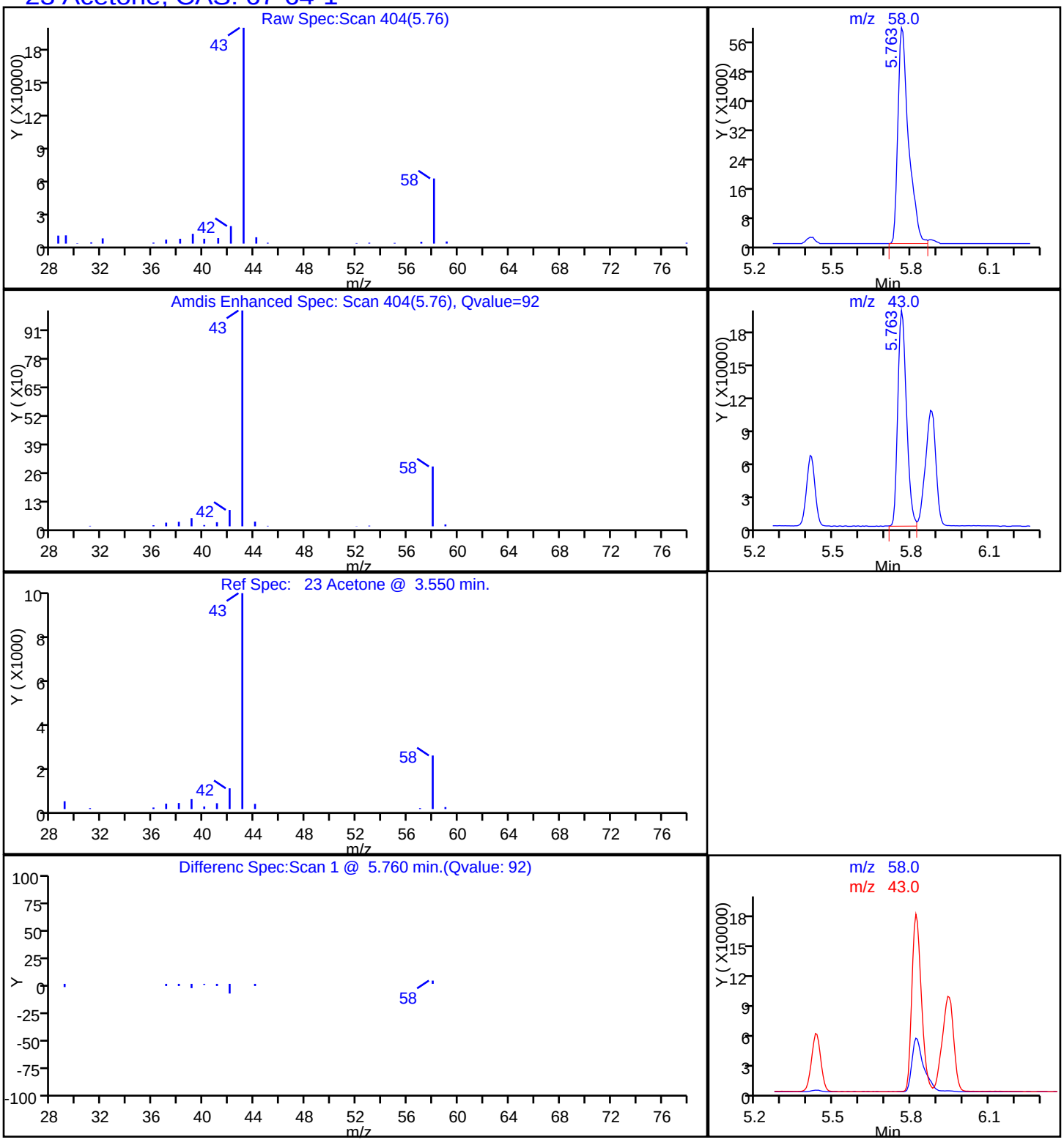
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



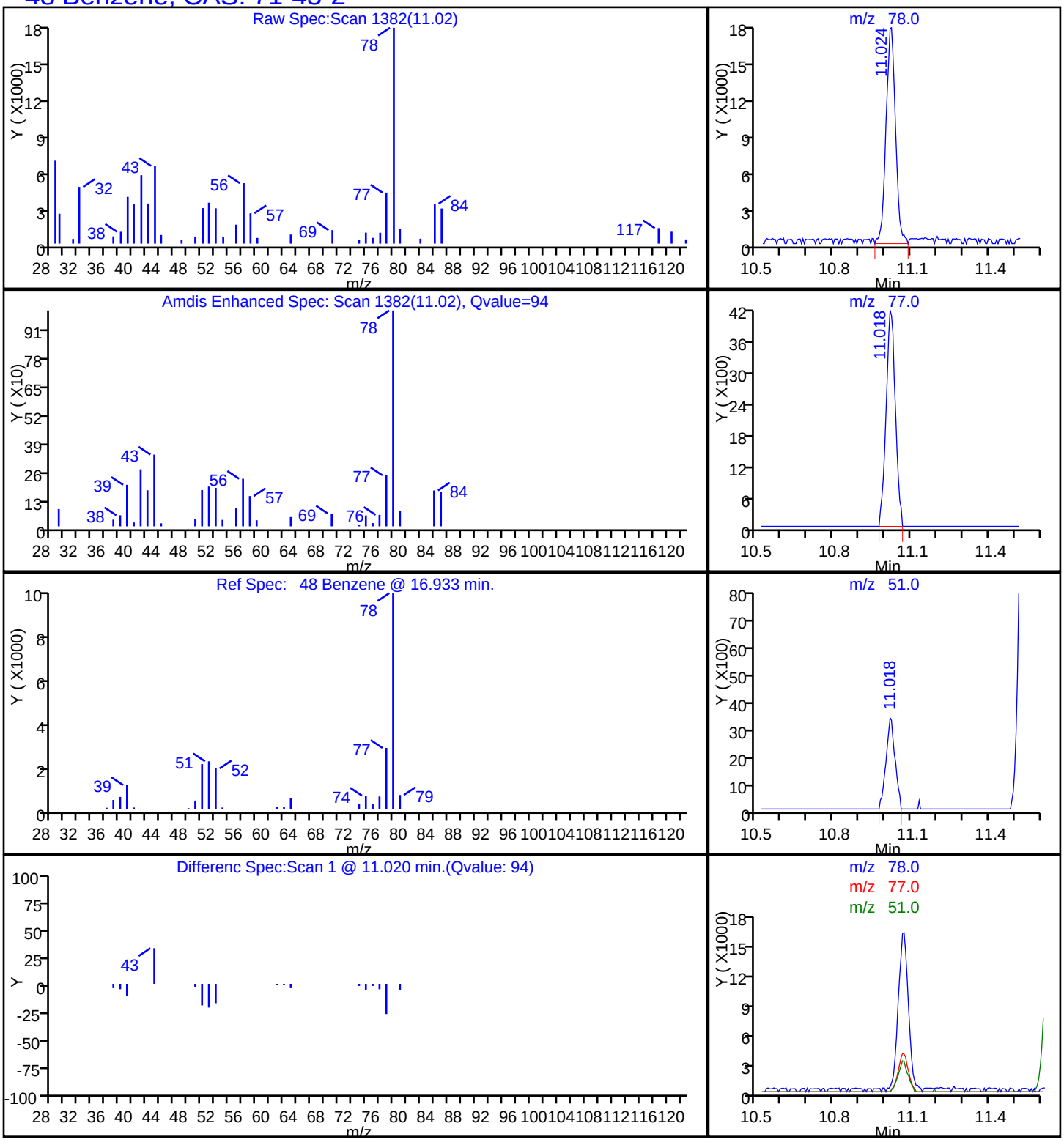
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

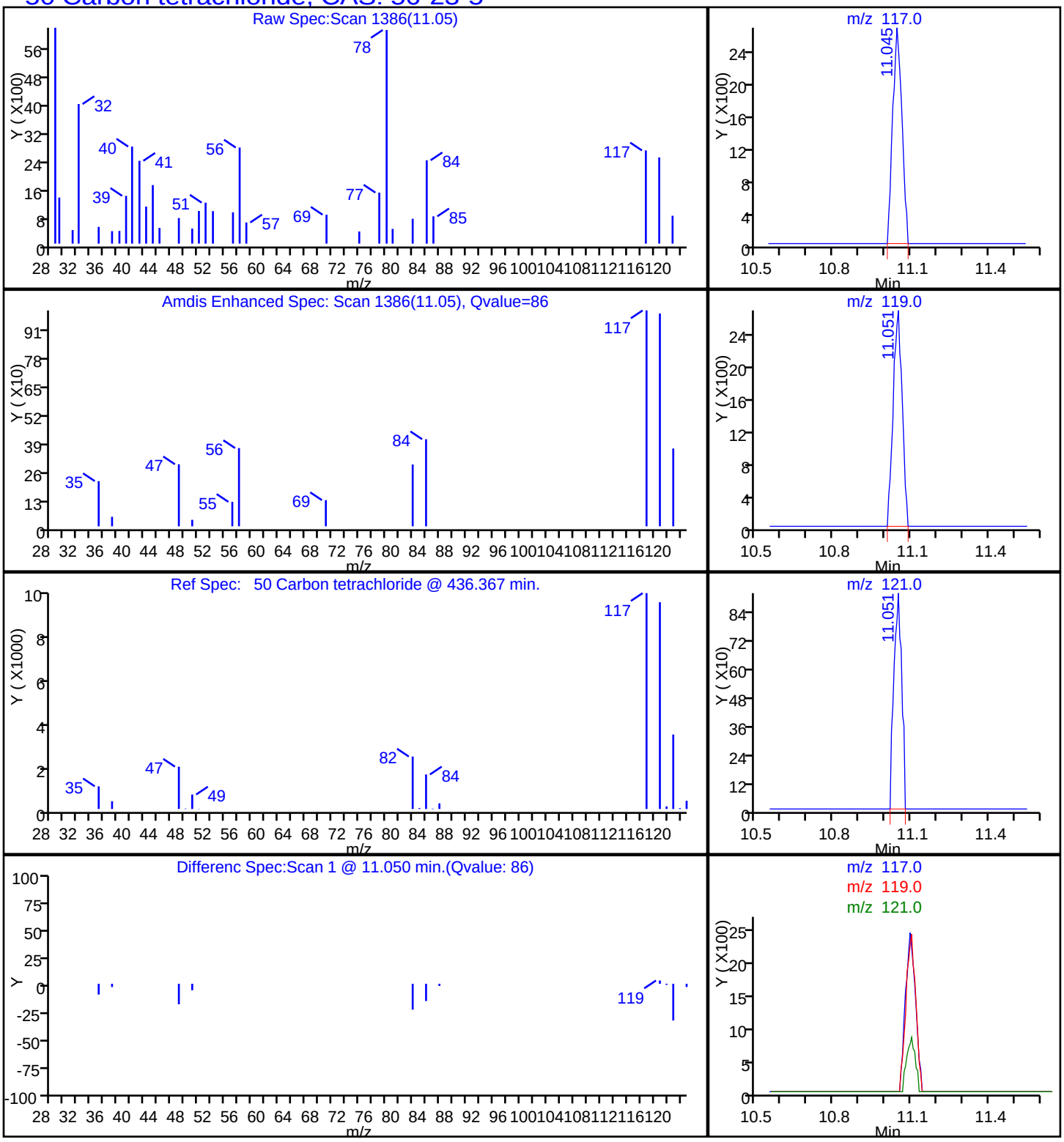
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

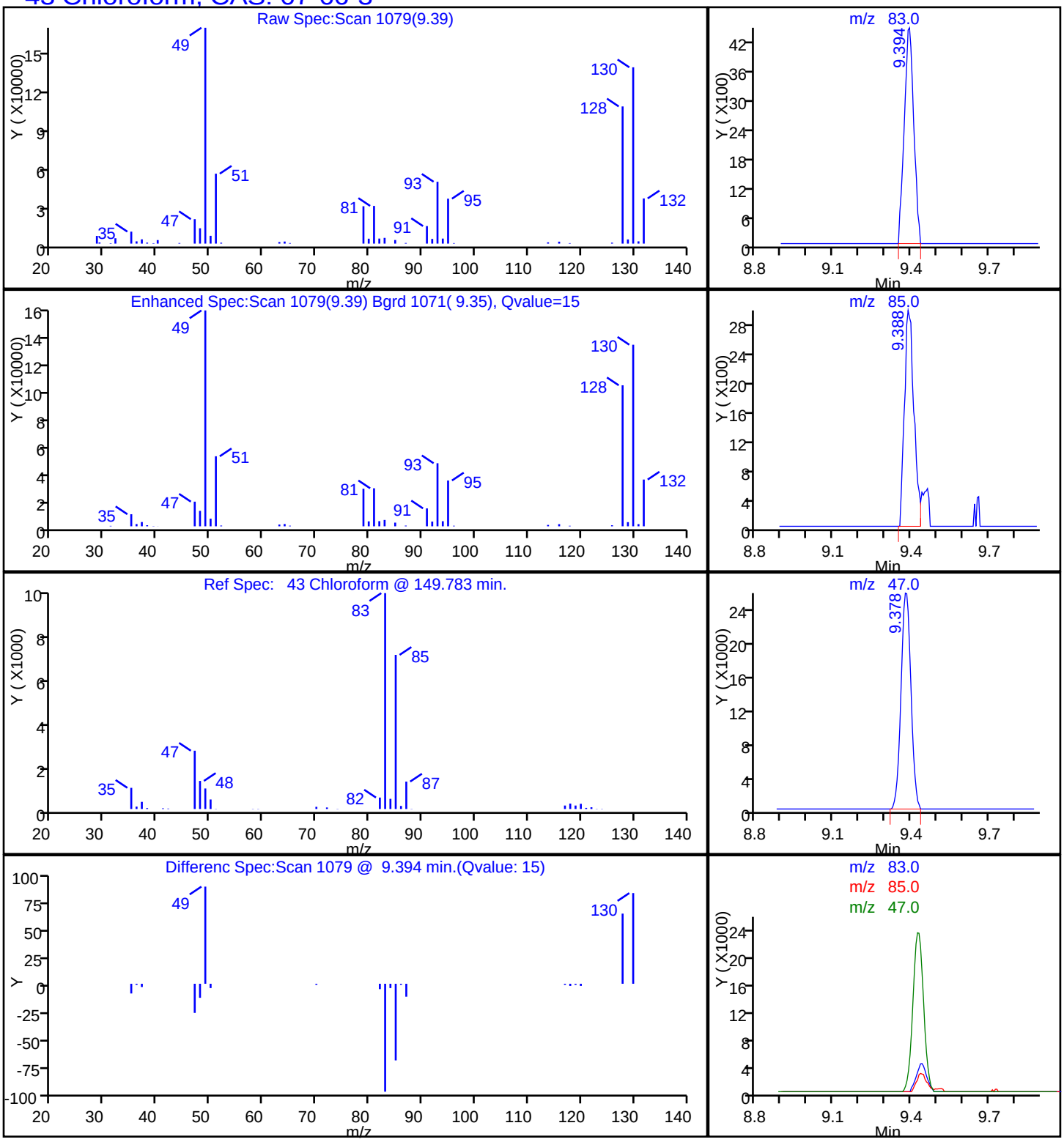
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



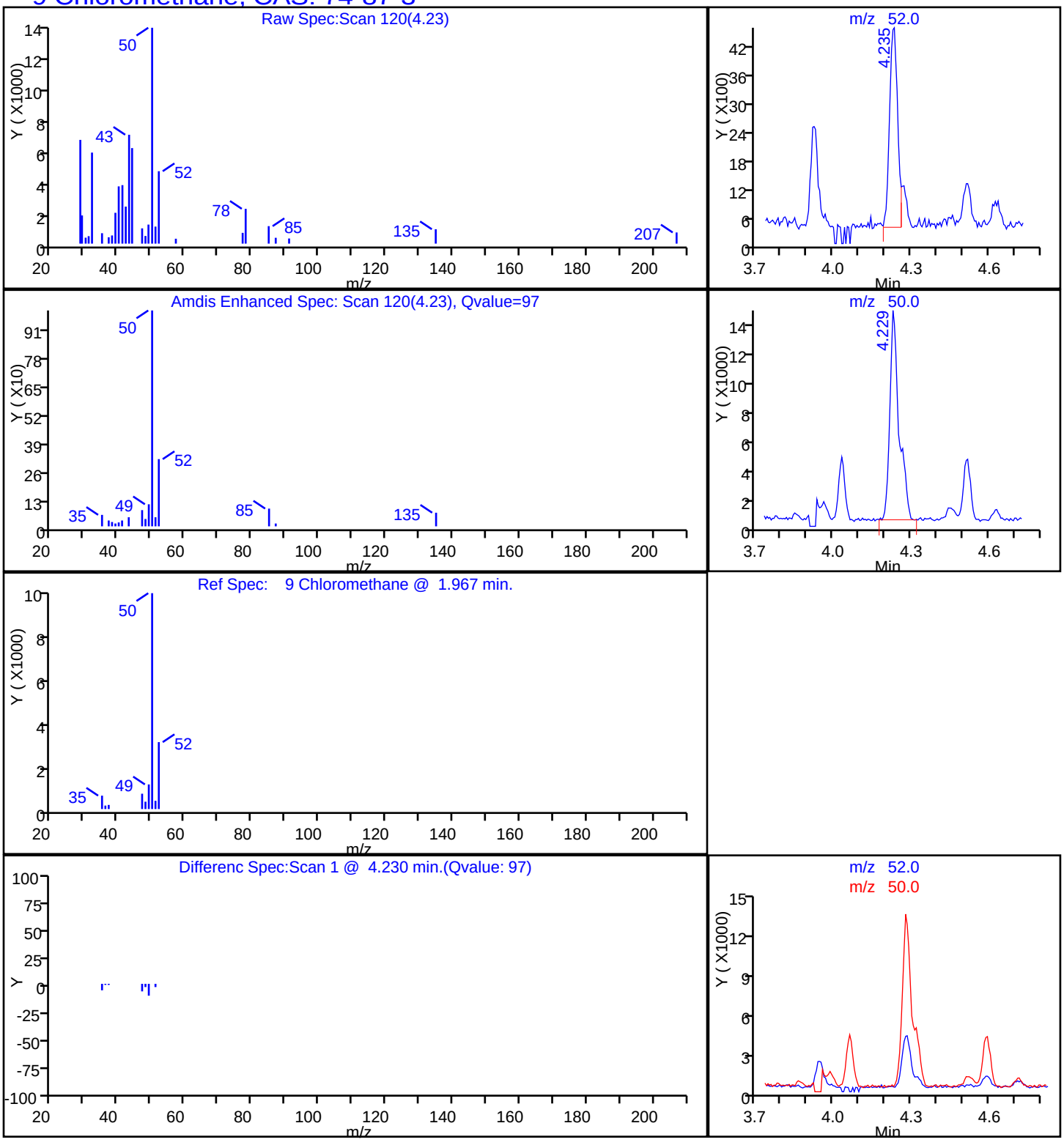
Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

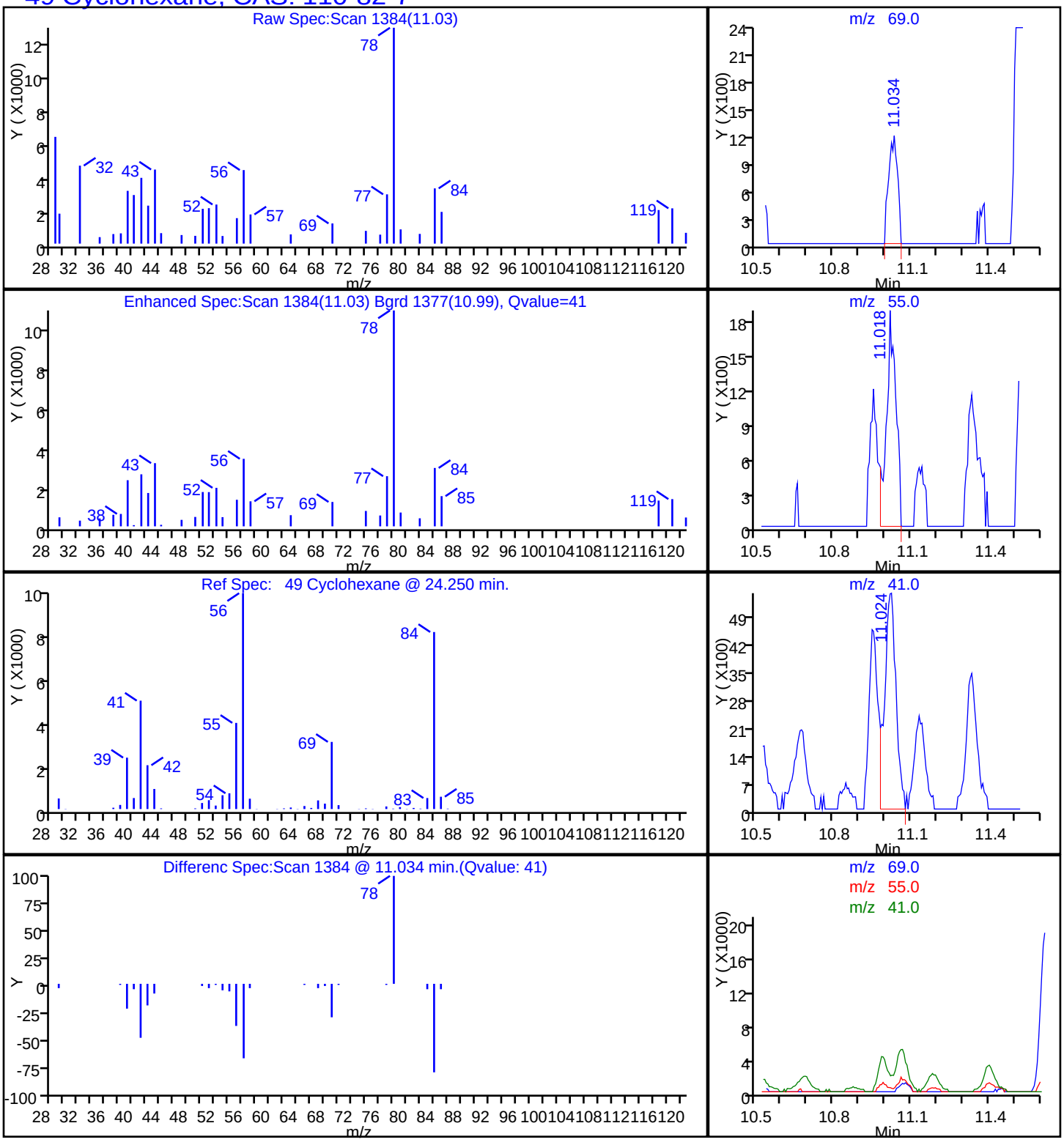
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

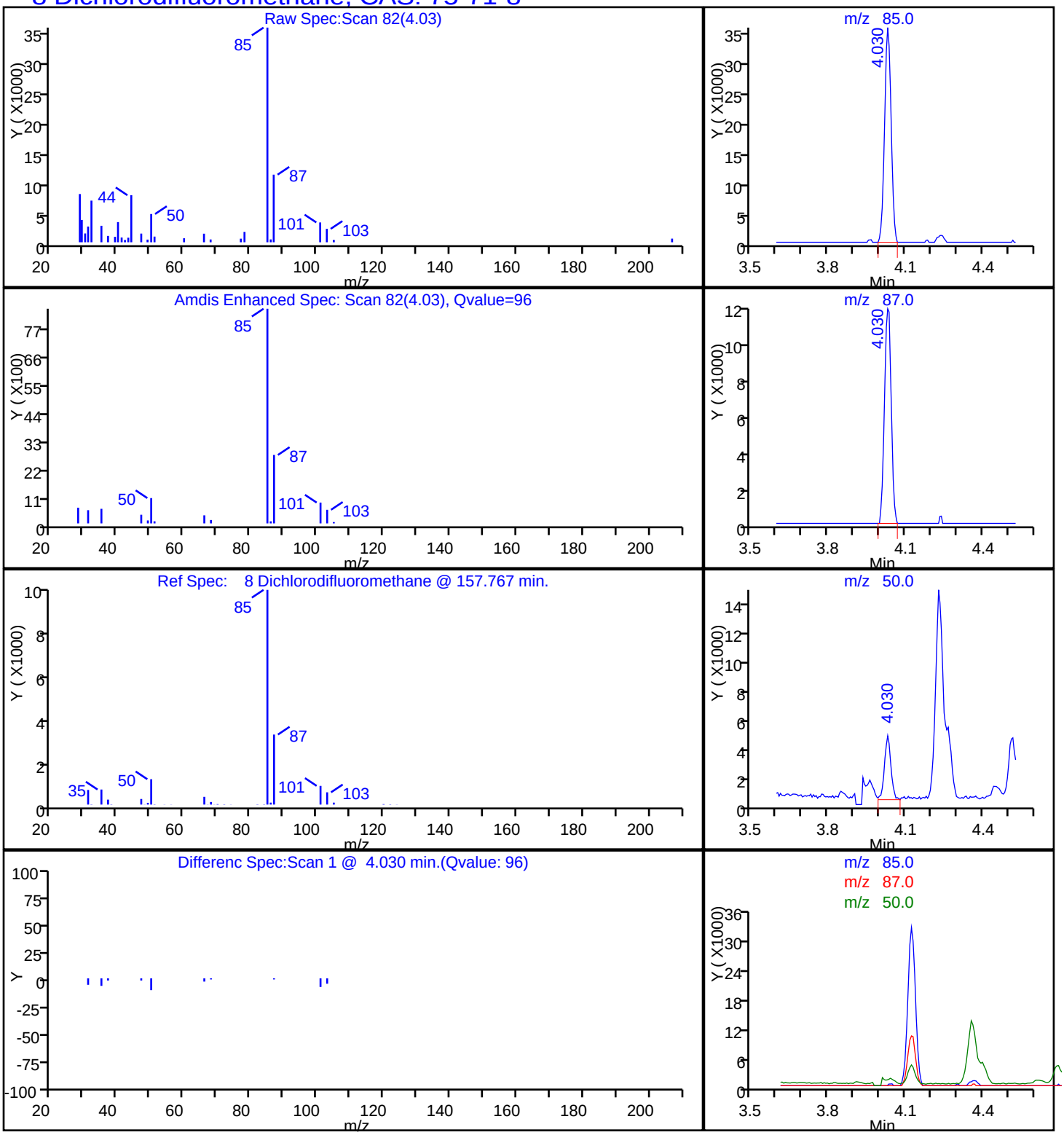
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D				
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

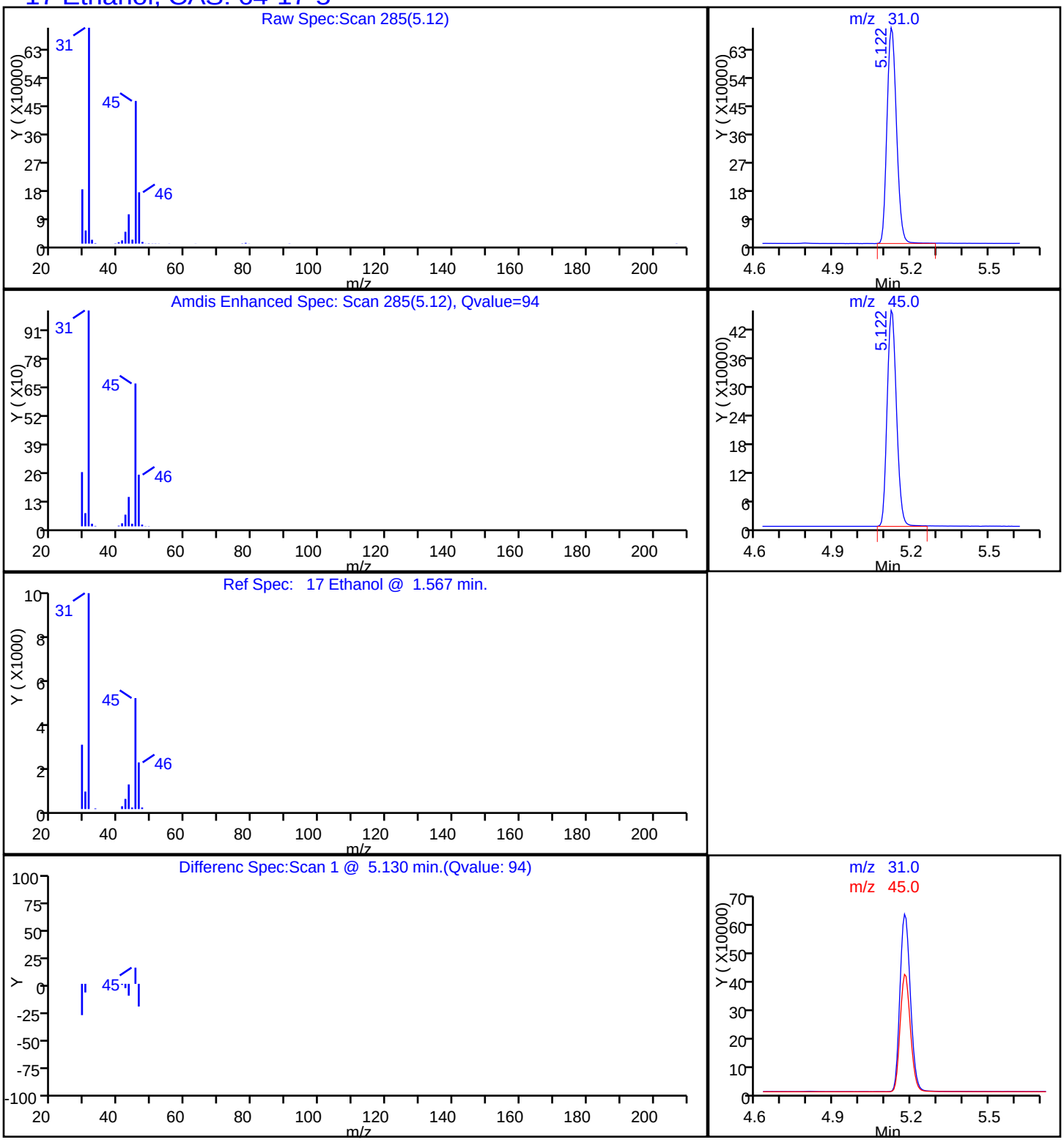


Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D				
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

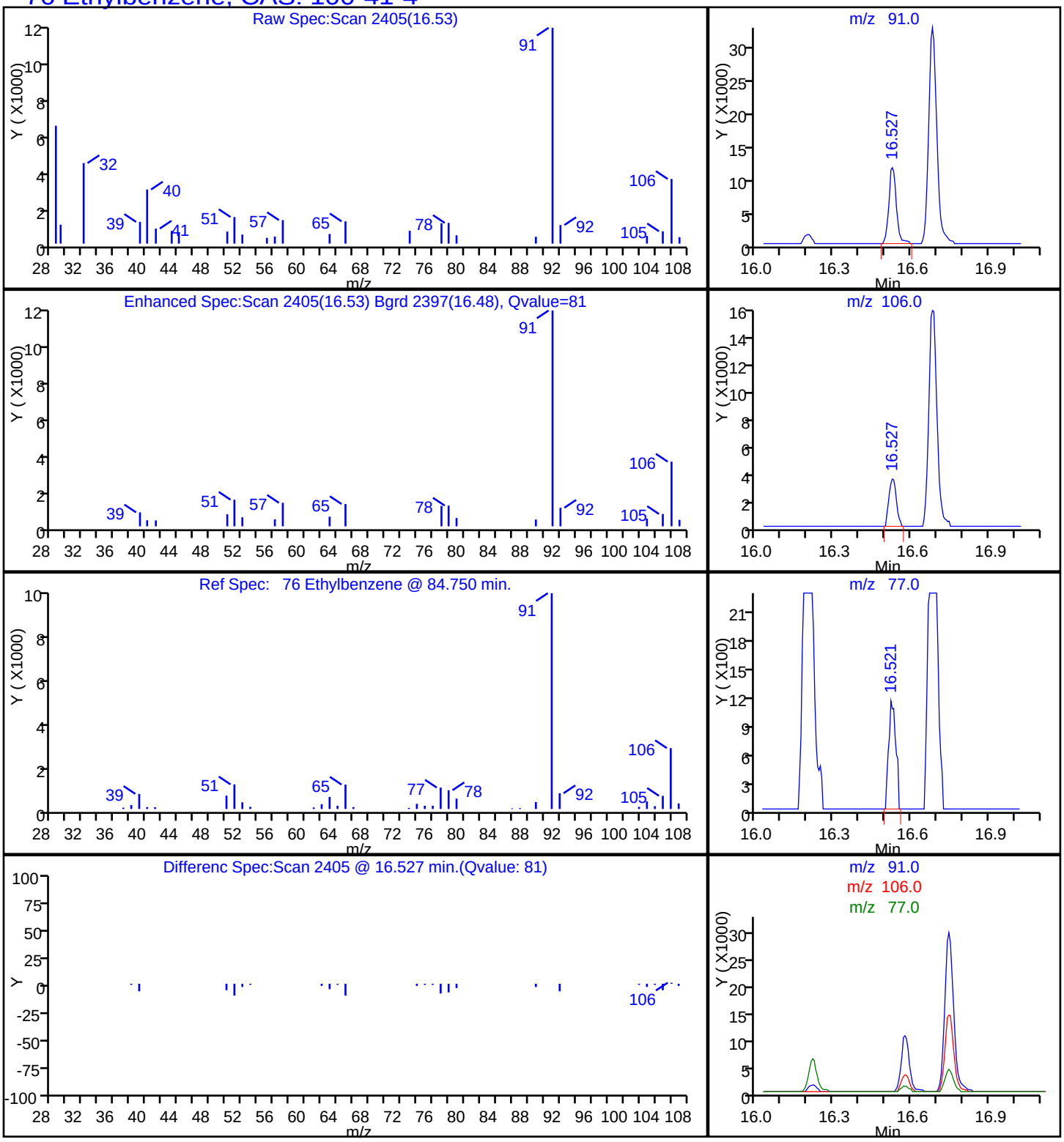
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



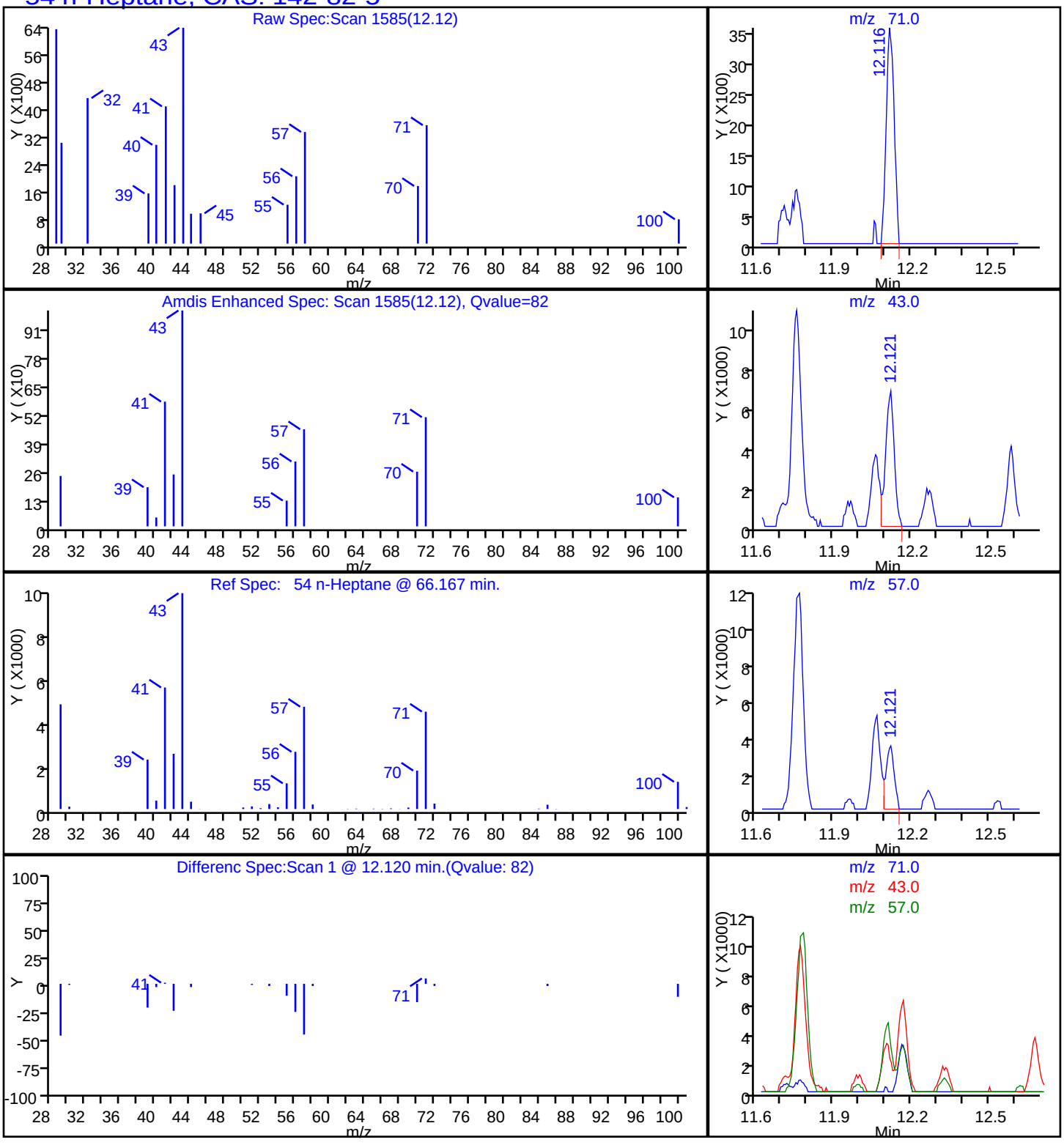
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



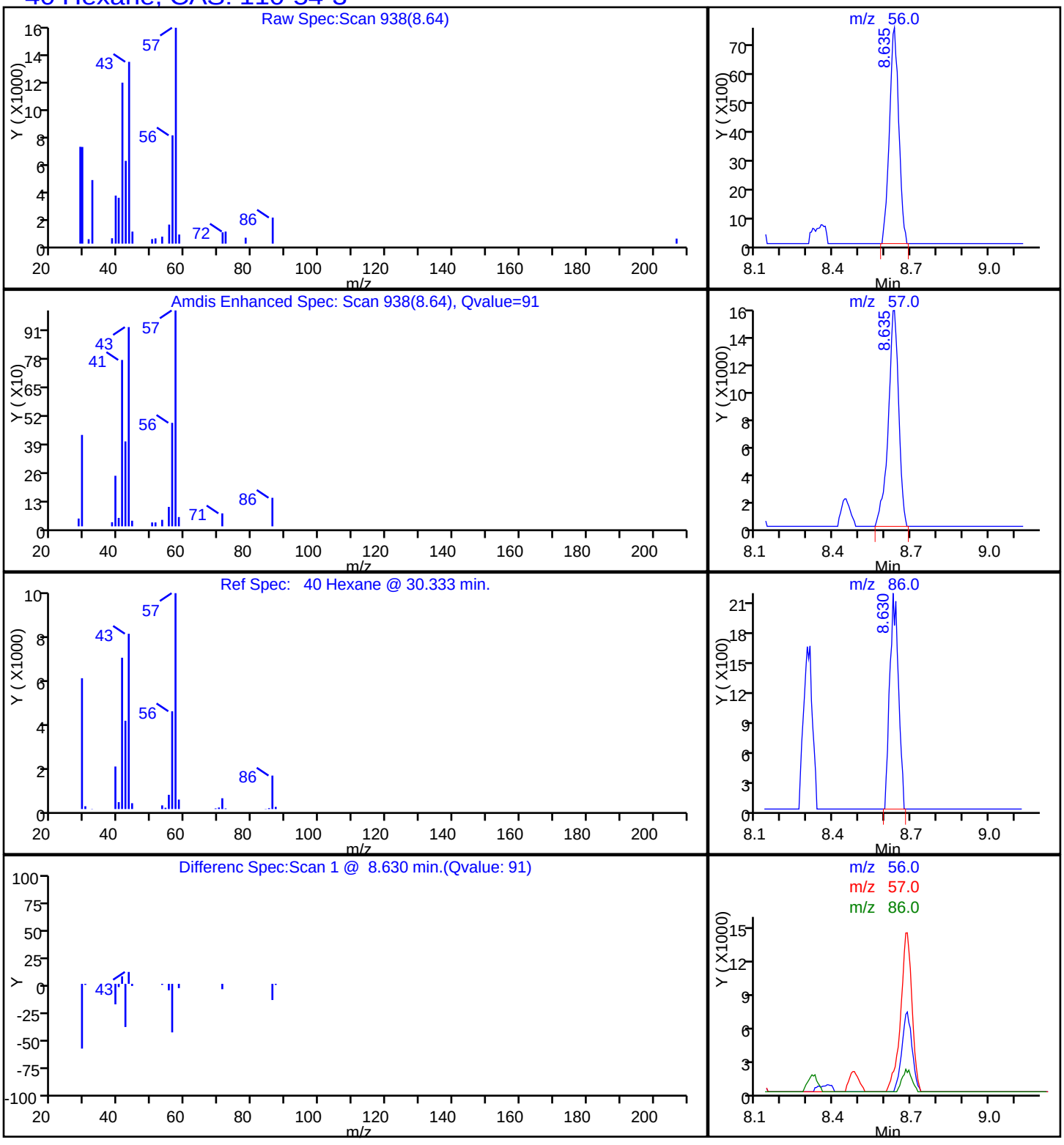
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



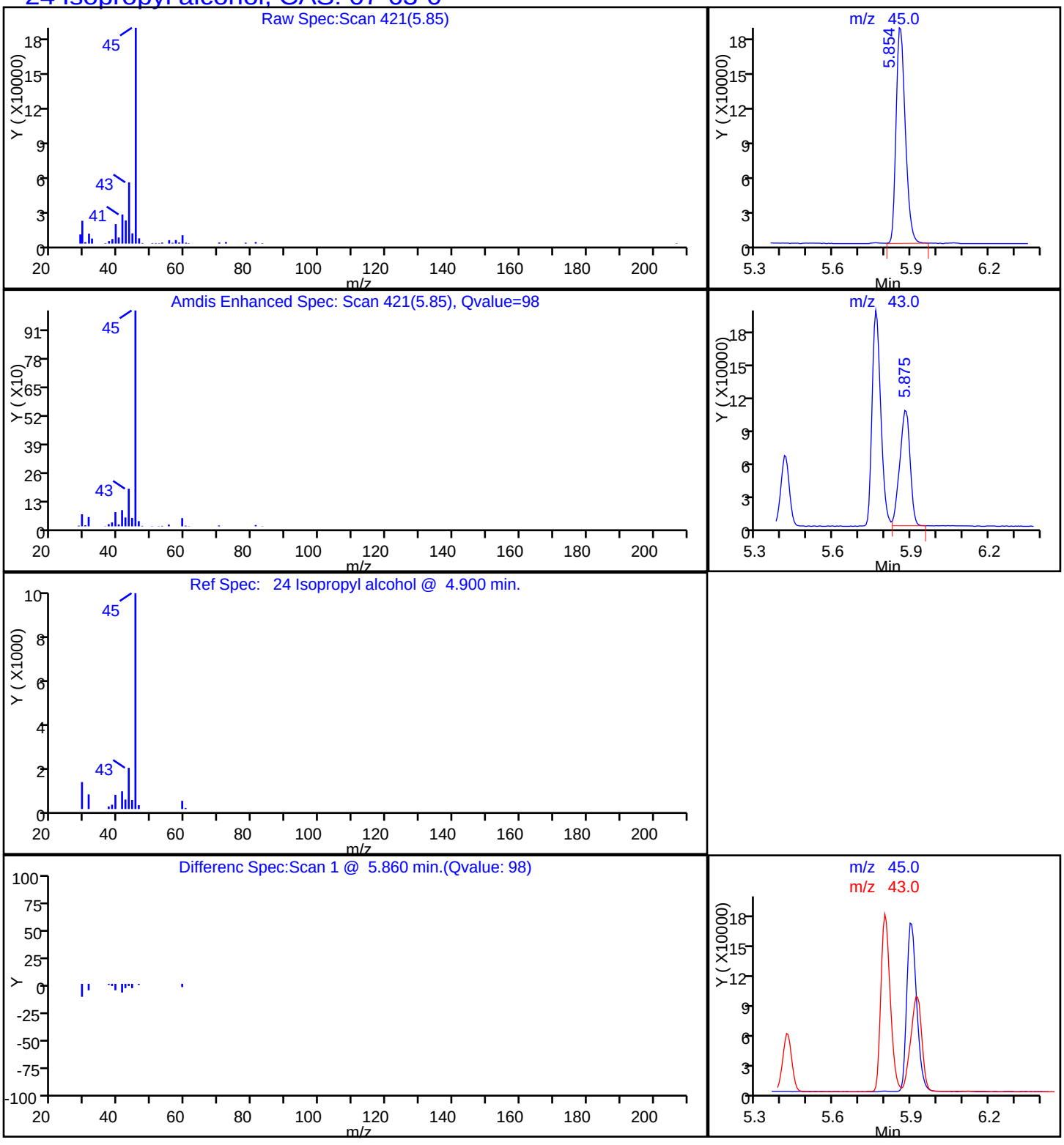
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



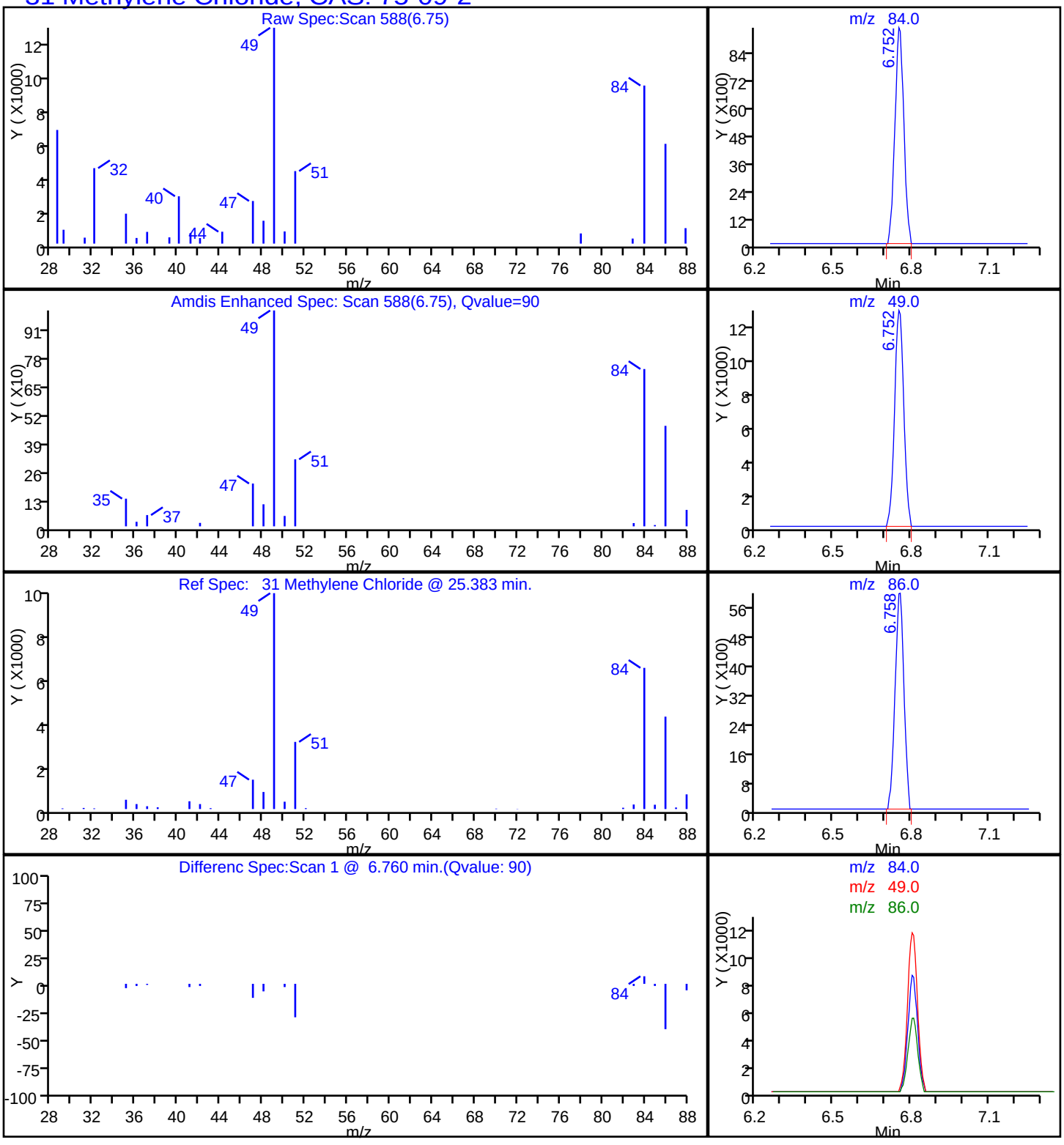
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



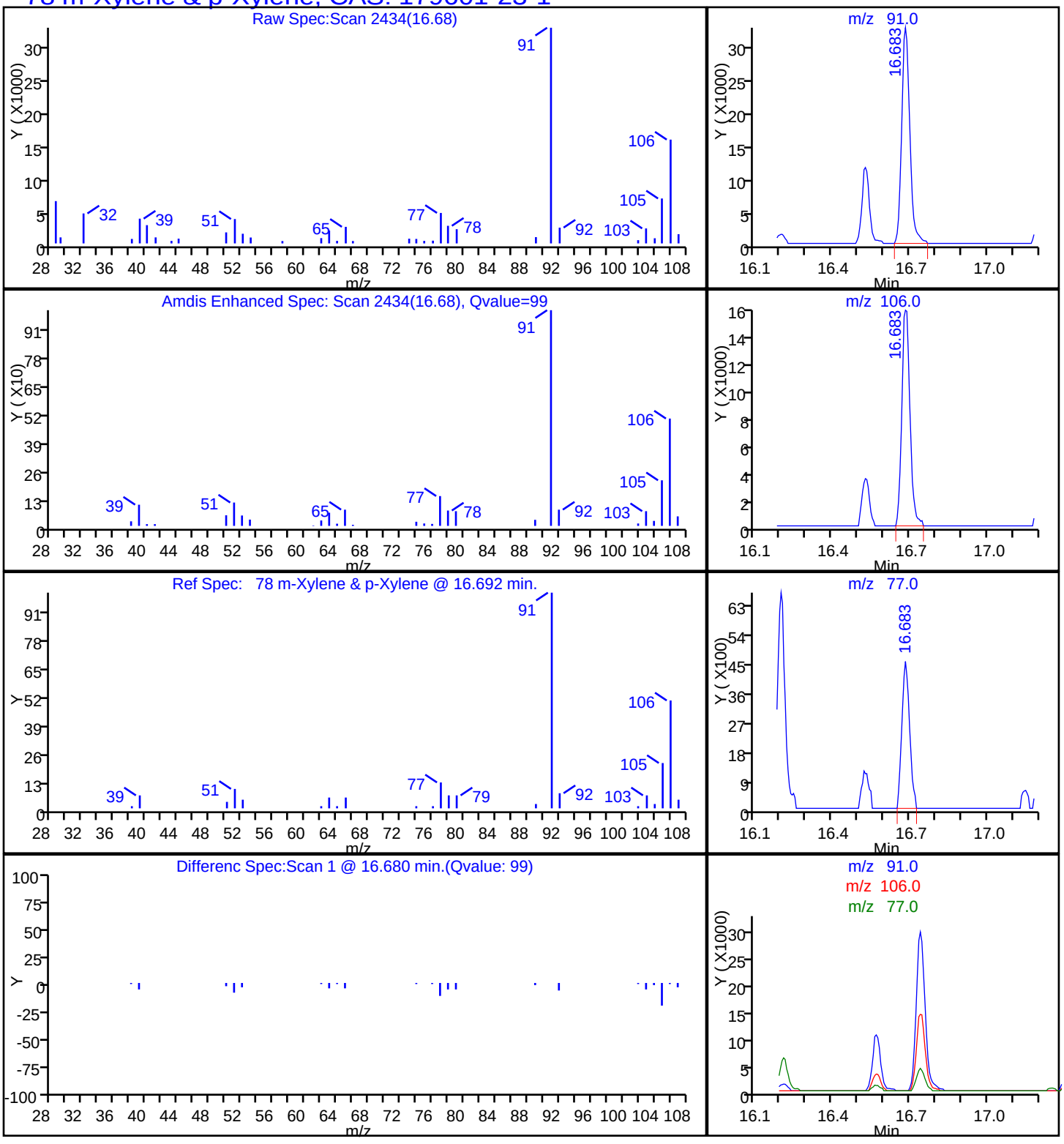
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



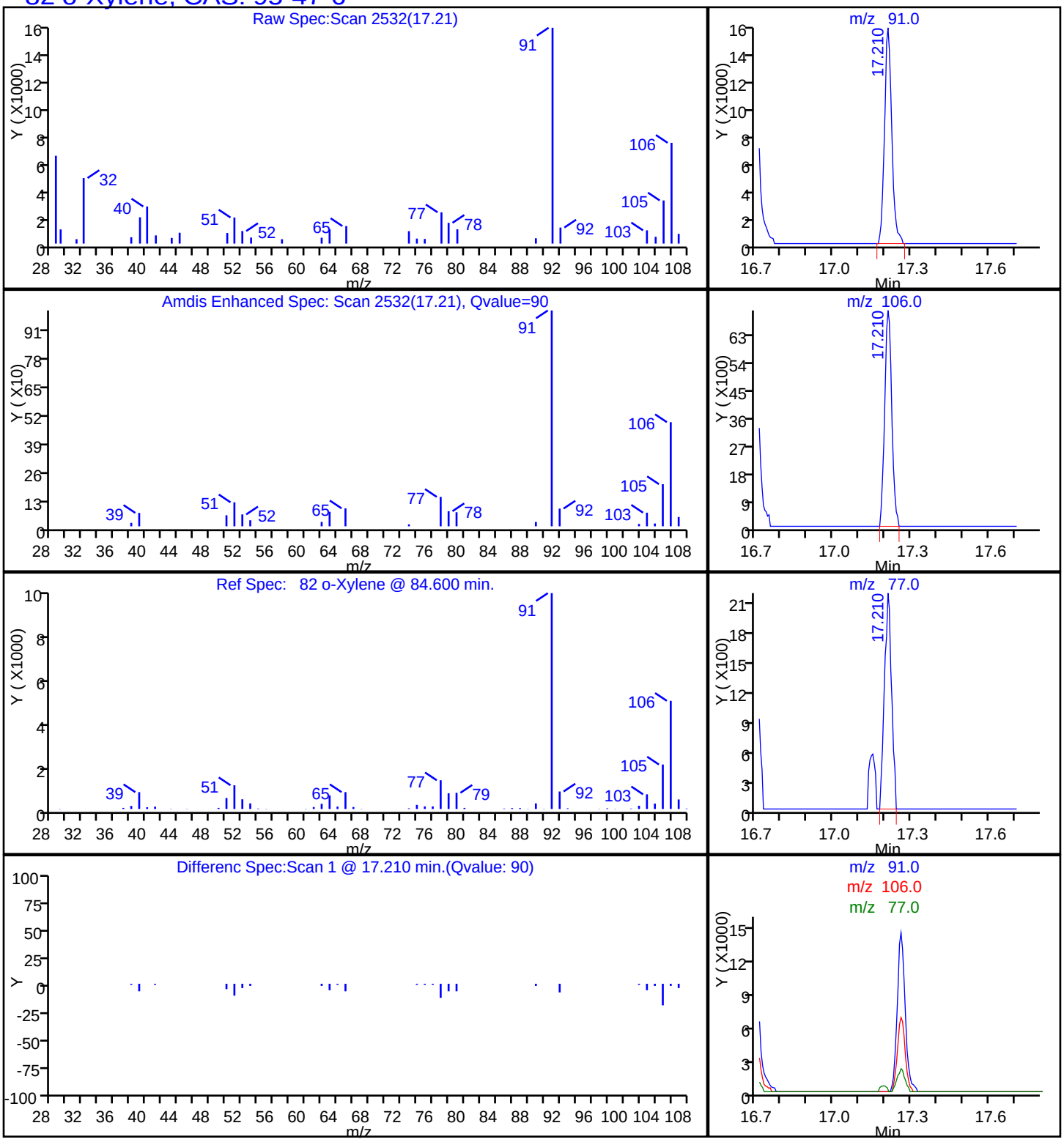
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



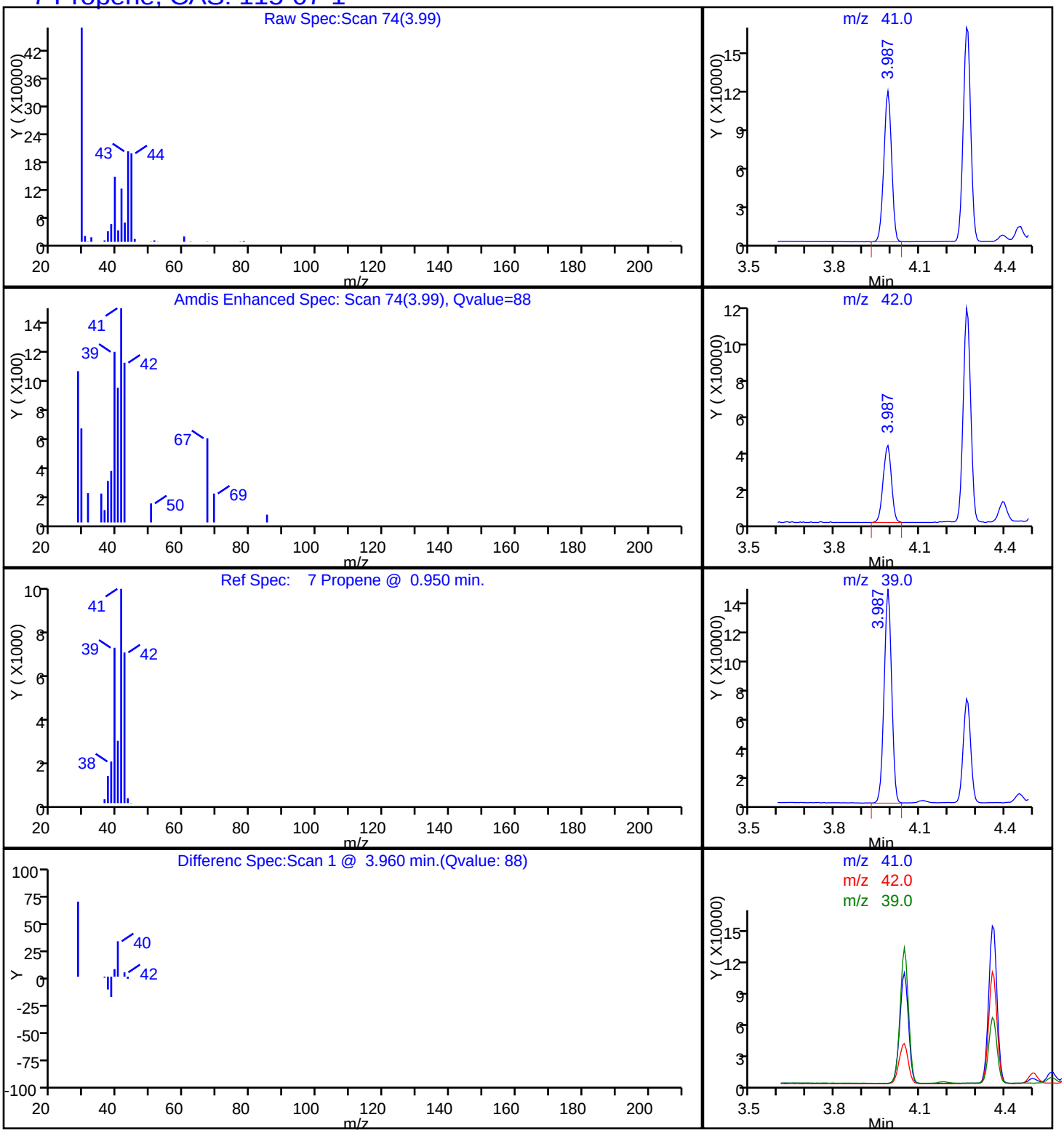
Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



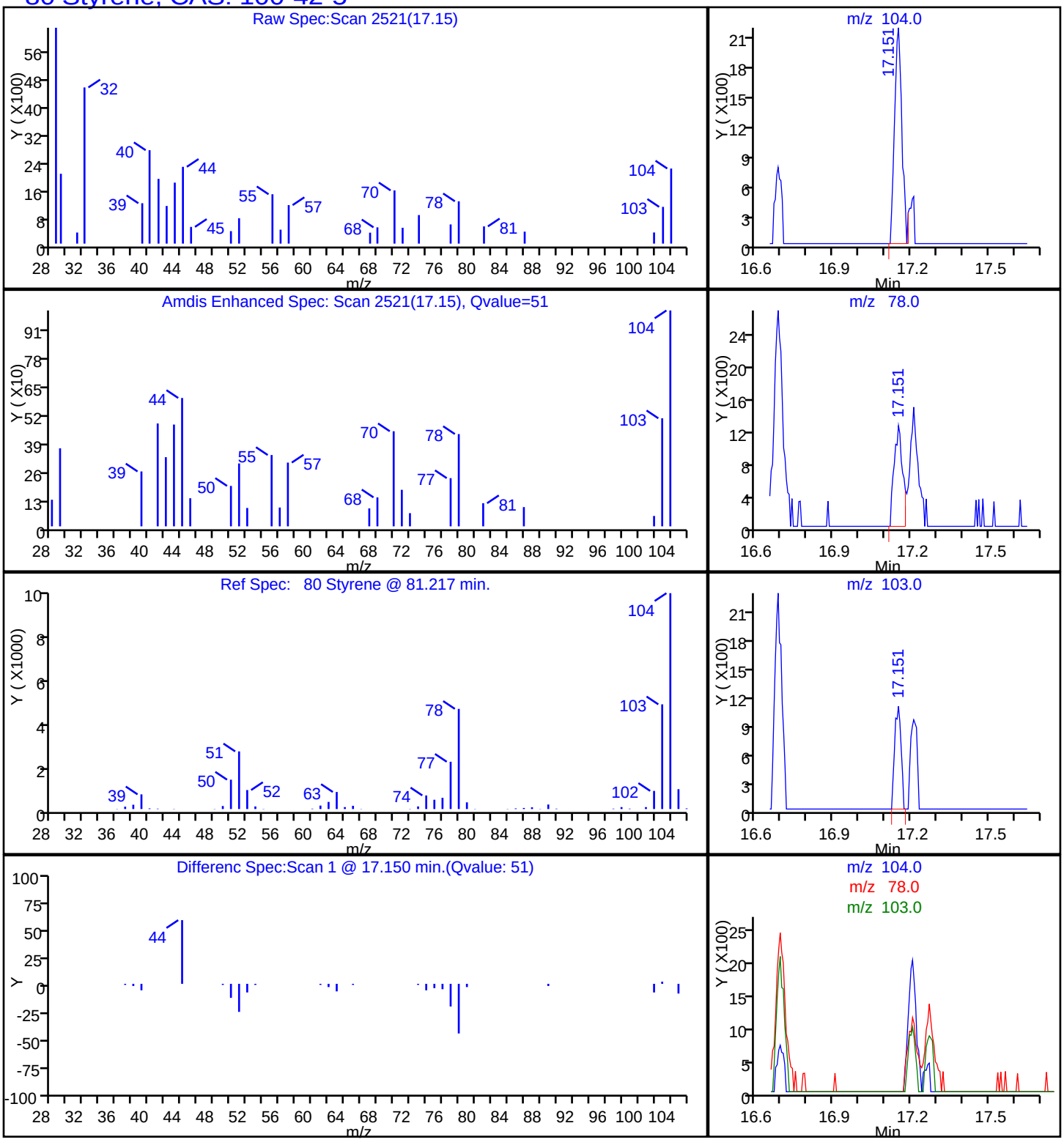
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10
Client ID:	PCV-IA1-B11		
Operator ID:	403648	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



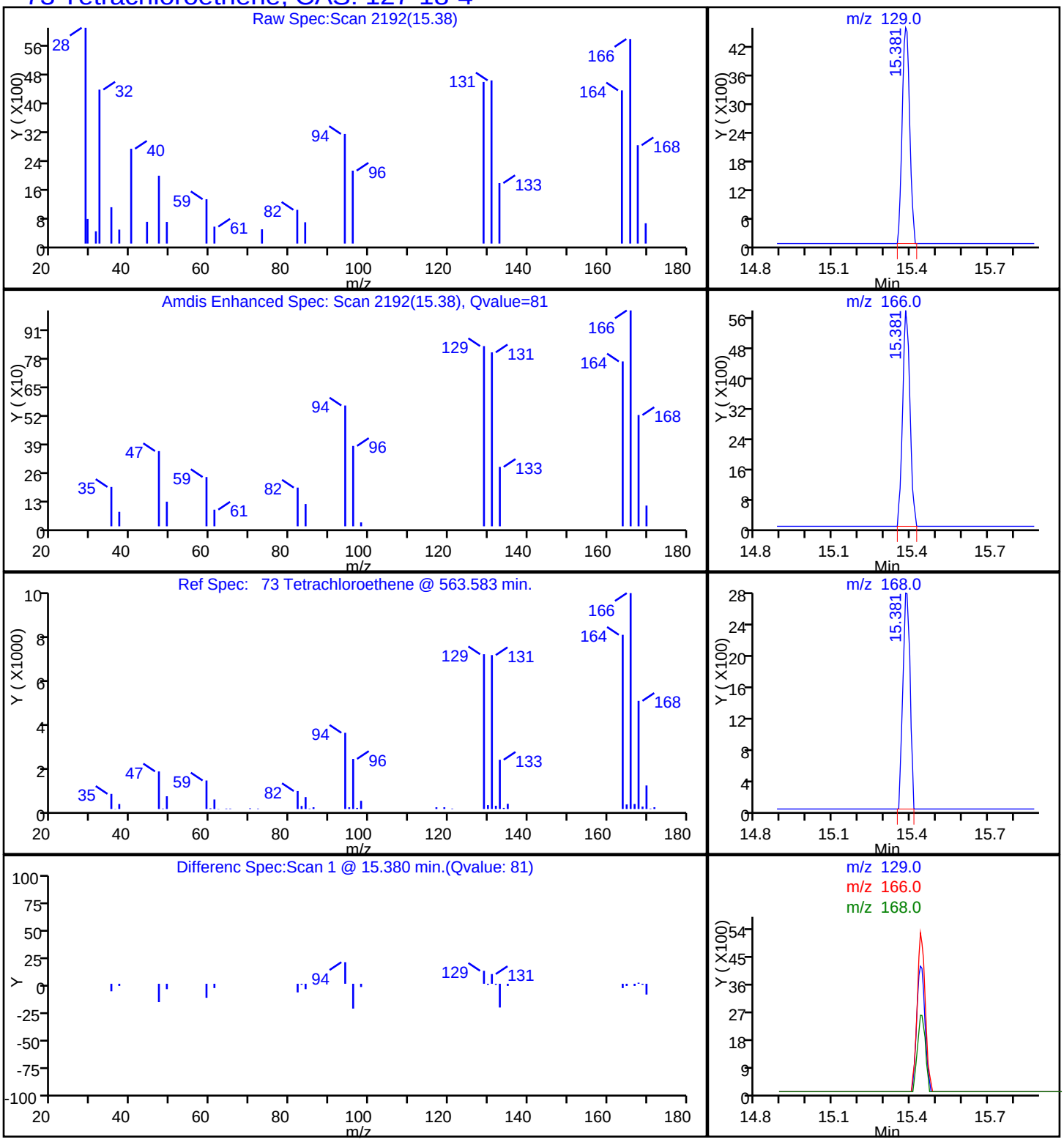
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



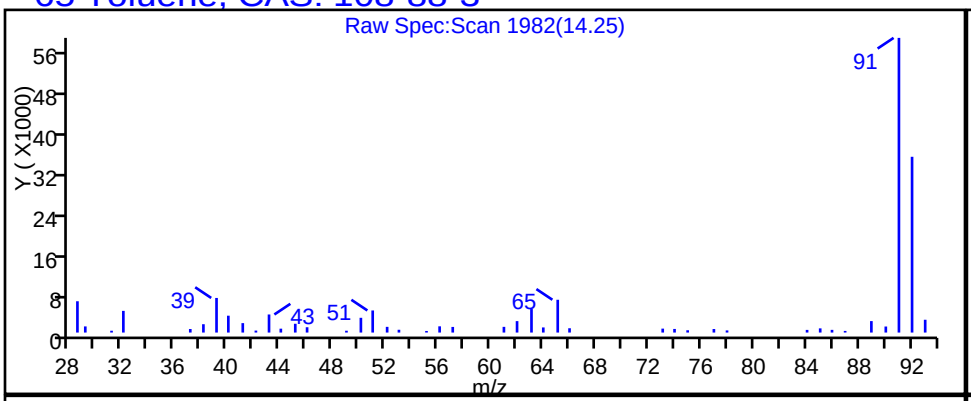
Report Date: 20-Mar-2014 14:57:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

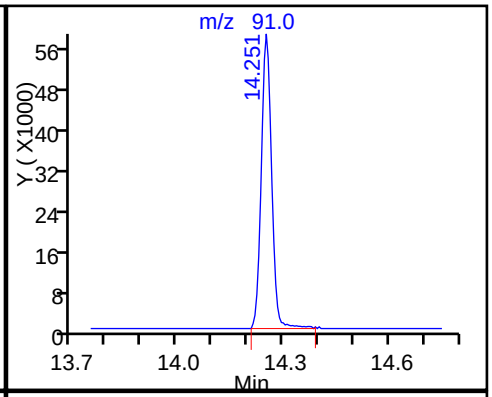
TestAmerica Knoxville

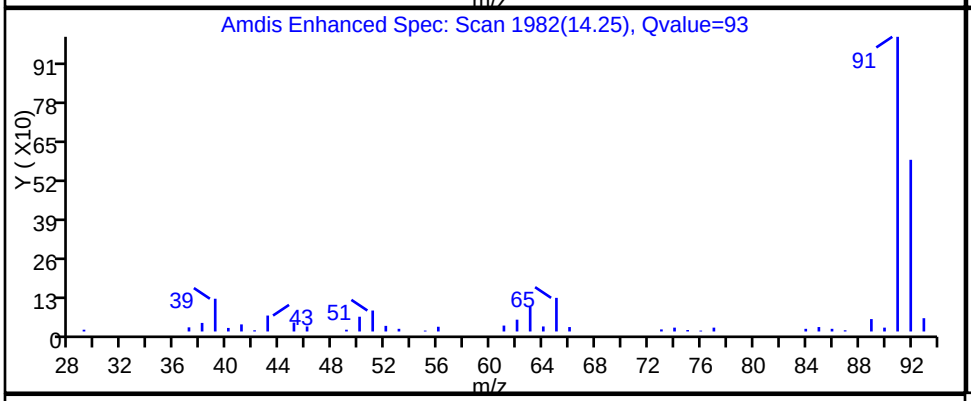
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

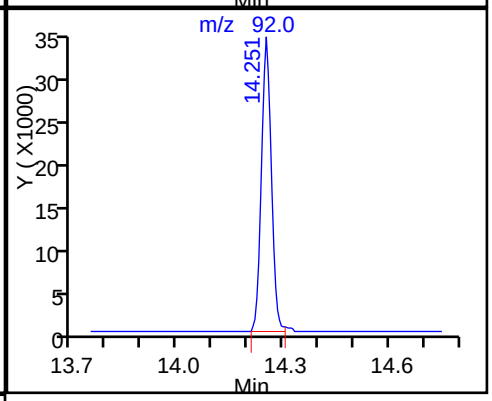
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

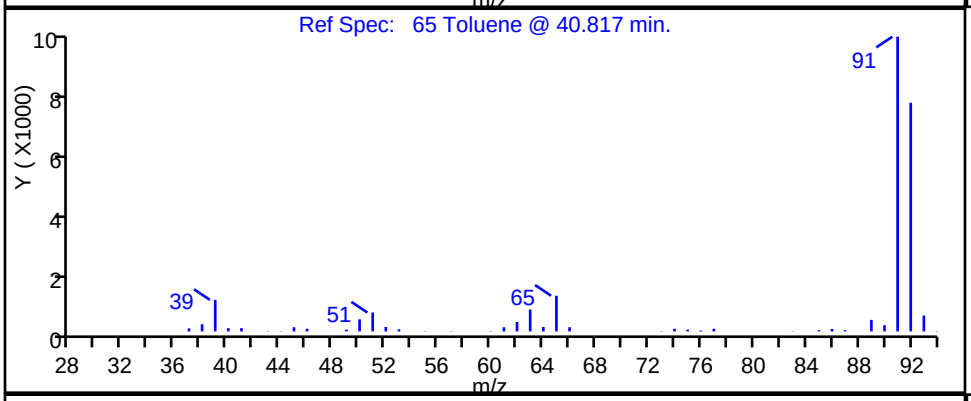
65 Toluene, CAS: 108-88-3

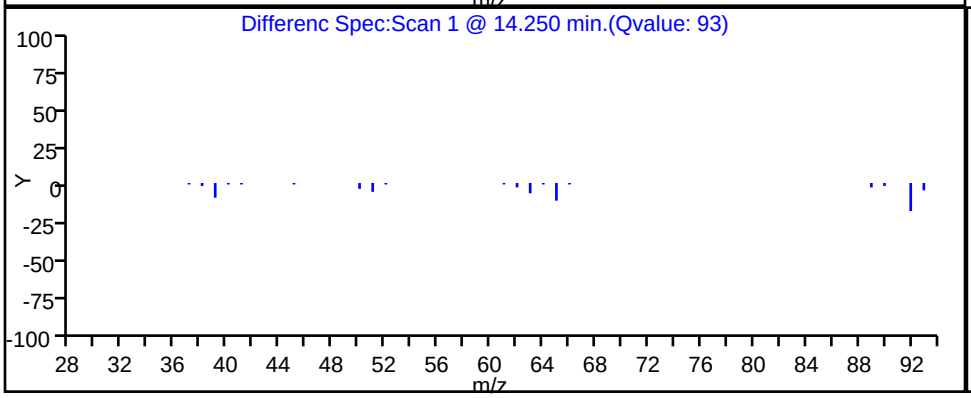


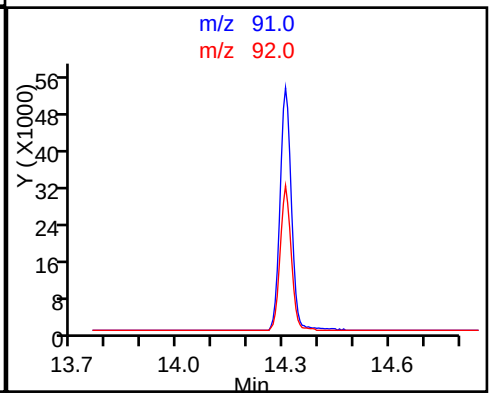












Report Date: 20-Mar-2014 14:57:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

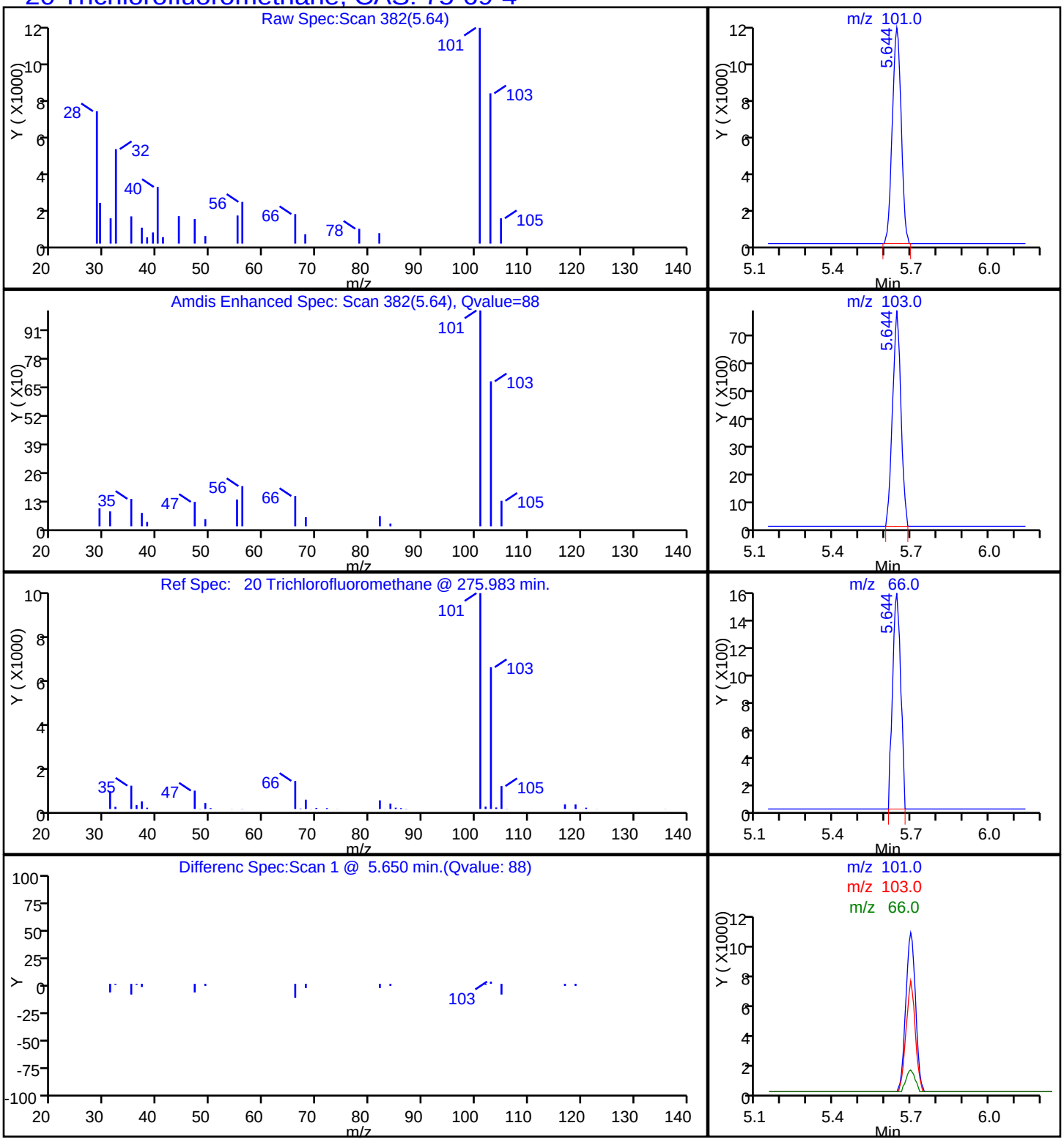
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

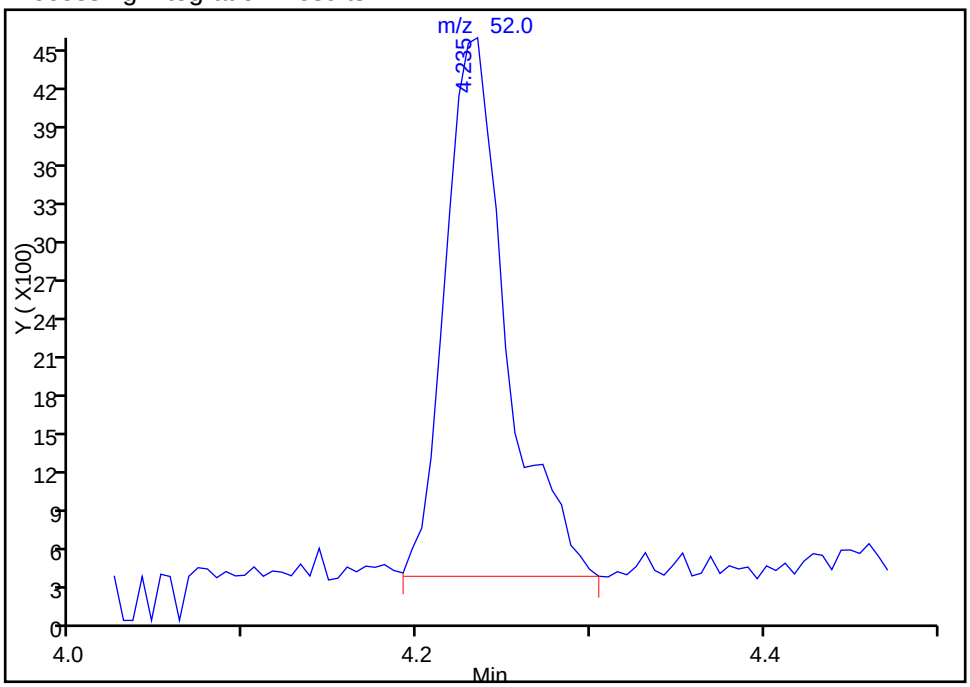
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D				
Injection Date:	19-Mar-2014 06:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-10	Lab Sample ID:	140-1063-10		
Client ID:	PCV-IA1-B11				
Operator ID:	403648	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

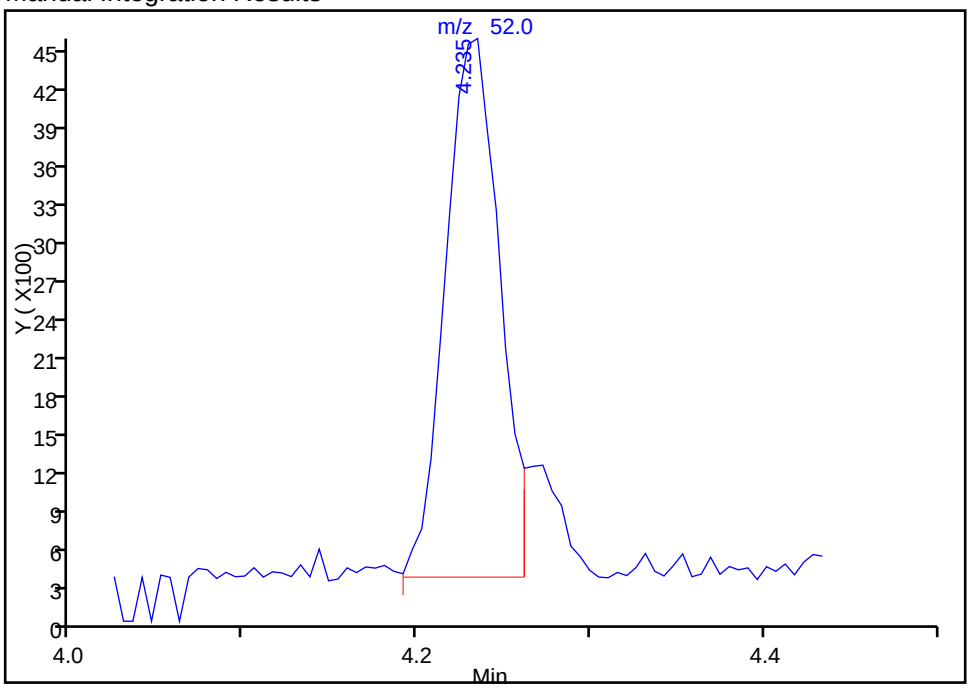
Processing Integration Results

RT: 4.23
Response: 10283
Amount: 0.256274



Manual Integration Results

RT: 4.23
Response: 9179
Amount: 0.228760



Reviewer: barlozhetskayaa, 19-Mar-2014 12:54:39
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.13	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.10	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.83	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.5		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.29		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.099	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.46	J	0.50	0.045
67-64-1	Acetone	58.08	5.5		5.0	1.4
71-43-2	Benzene	78.11	0.37		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.042	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.077	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.64		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.090	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	56		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.18	J	0.20	0.068
142-82-5	Heptane	100.21	0.18	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.31	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.47	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.61		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.24		0.20	0.061
115-07-1	Propene	42.08	1.9	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.64	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.61	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.72	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.5	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	4.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.0		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.49	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.9	J	2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.13	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.38	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.31	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	110		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.77	J	0.87	0.30
142-82-5	Heptane	100.21	0.73	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.1	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.6	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.0		0.87	0.26
115-07-1	Propene	42.08	3.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11

Matrix: Air Lab File ID: JC18P213.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:32

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D
Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11
Client ID: PCV-IA2-B11
Sample Type: Client
Inject. Date: 19-Mar-2014 06:56:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-11
Misc. Info.: J031814,TO15,,140-0000527-019
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:57:31 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:06:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	89	353782	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1687192	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1399026	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	947308	3.83	
7 Propene	41	3.980	3.971	0.009	86	81566	0.7519	
8 Dichlorodifluoromethane	85	4.028	4.030	-0.002	96	63715	0.1818	
9 Chloromethane	52	4.227	4.229	-0.002	99	10222	0.2568	
17 Ethanol	31	5.115	5.116	-0.001	95	638229	22.5	
19 2-Methylbutane	43	5.411	5.407	0.004	93	89933	0.5985	
20 Trichlorofluoromethane	101	5.642	5.644	-0.002	87	26914	0.0874	
23 Acetone	58	5.766	5.767	-0.001	92	110958	2.21	
24 Isopropyl alcohol	45	5.852	5.848	0.004	95	276601	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.578	6.580	-0.002	62	6020	0.0282	
31 Methylene Chloride	84	6.750	6.757	-0.007	92	17913	0.1893	
33 Carbon disulfide	76	6.928	6.935	-0.007	73	5564	0.0167	
35 2-Methylpentane	43	7.622	7.623	-0.001	92	31465	0.1153	
39 2-Butanone (MEK)	72	8.595	8.586	0.009	96	11169	0.3335	
40 Hexane	56	8.633	8.635	-0.002	82	11919	0.1253	
43 Chloroform	83	9.386	9.393	-0.007	4	6368	0.0309	
48 Benzene	78	11.016	11.023	-0.007	95	42773	0.1478	
49 Cyclohexane	69	11.027	11.034	-0.007	39	2057	0.0360	
50 Carbon tetrachloride	117	11.048	11.050	-0.002	85	6747	0.0282	
53 Isooctane	57	11.759	11.760	-0.001	85	30284	0.0613	
54 n-Heptane	71	12.119	12.120	-0.001	81	7248	0.0708	
62 4-Methyl-2-pentanone (MIBK)	43	13.372	13.368	0.004	90	32230	0.1822	
65 Toluene	91	14.249	14.256	-0.007	93	119062	0.4588	
73 Tetrachloroethene	129	15.379	15.386	-0.007	82	7276	0.0602	
76 Ethylbenzene	91	16.525	16.532	-0.007	76	20267	0.0707	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	56839	0.2457	
82 o-Xylene	91	17.213	17.215	-0.002	83	22163	0.0945	
88 4-Ethyltoluene	105	18.451	18.447	0.004	36	12393	0.0398	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.940	18.942	-0.002	75	14207	0.0523	
97 1,4-Dichlorobenzene	146	19.295	19.297	-0.002	69	6723	0.0405	

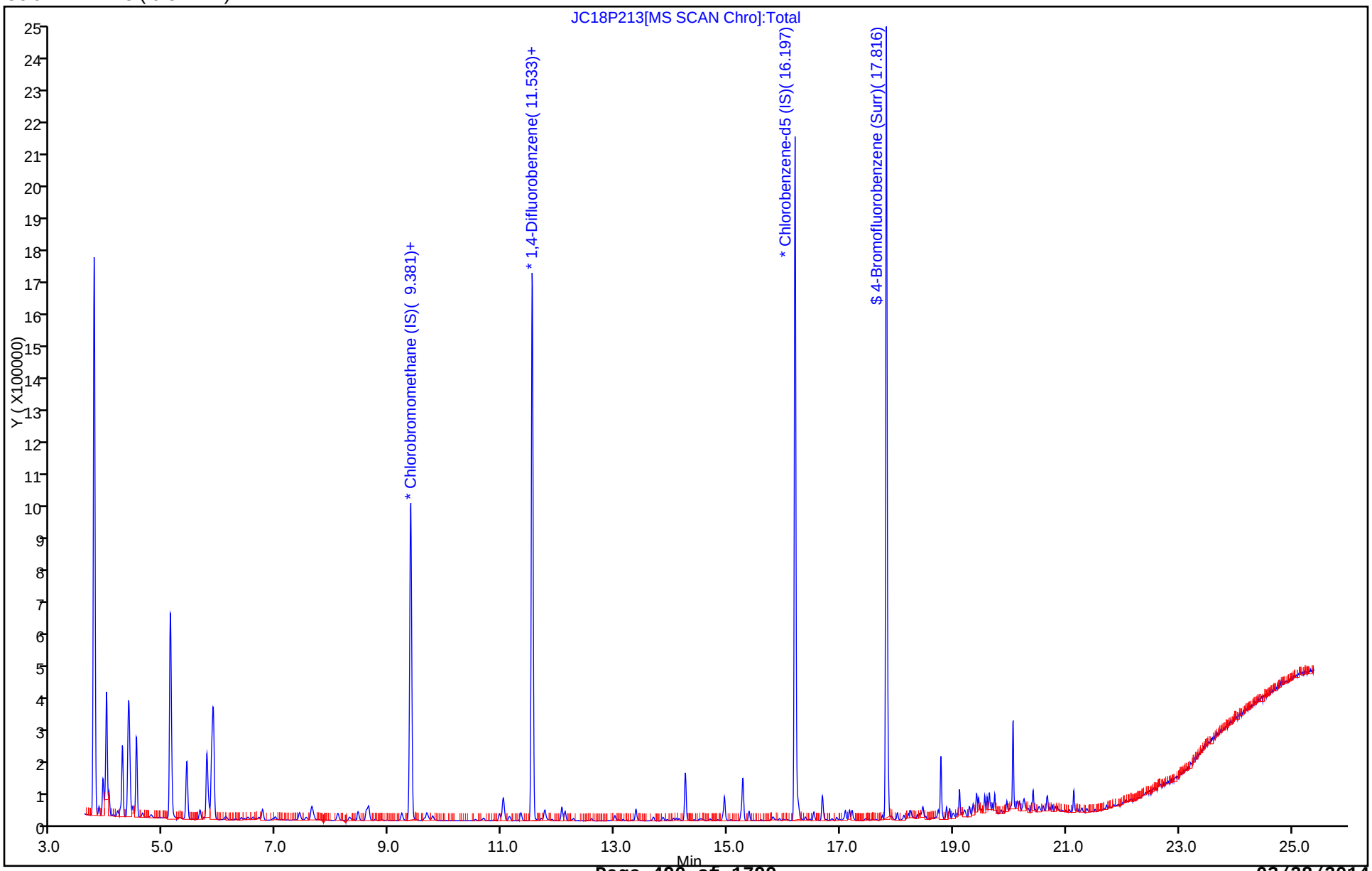
Report Date: 20-Mar-2014 14:57:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11	Worklist Smp#:	19
Client ID:	PCV-IA2-B11				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

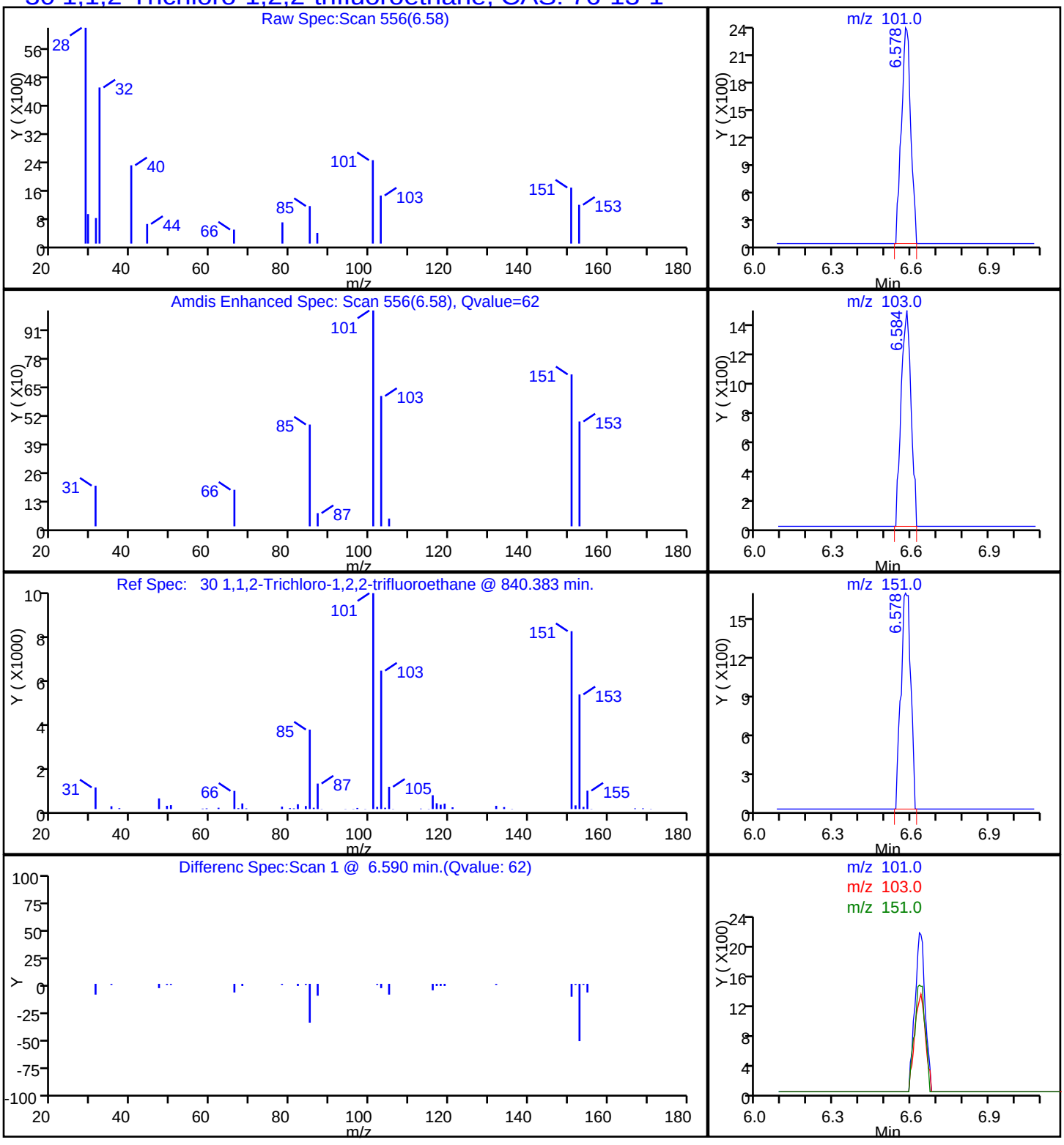
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



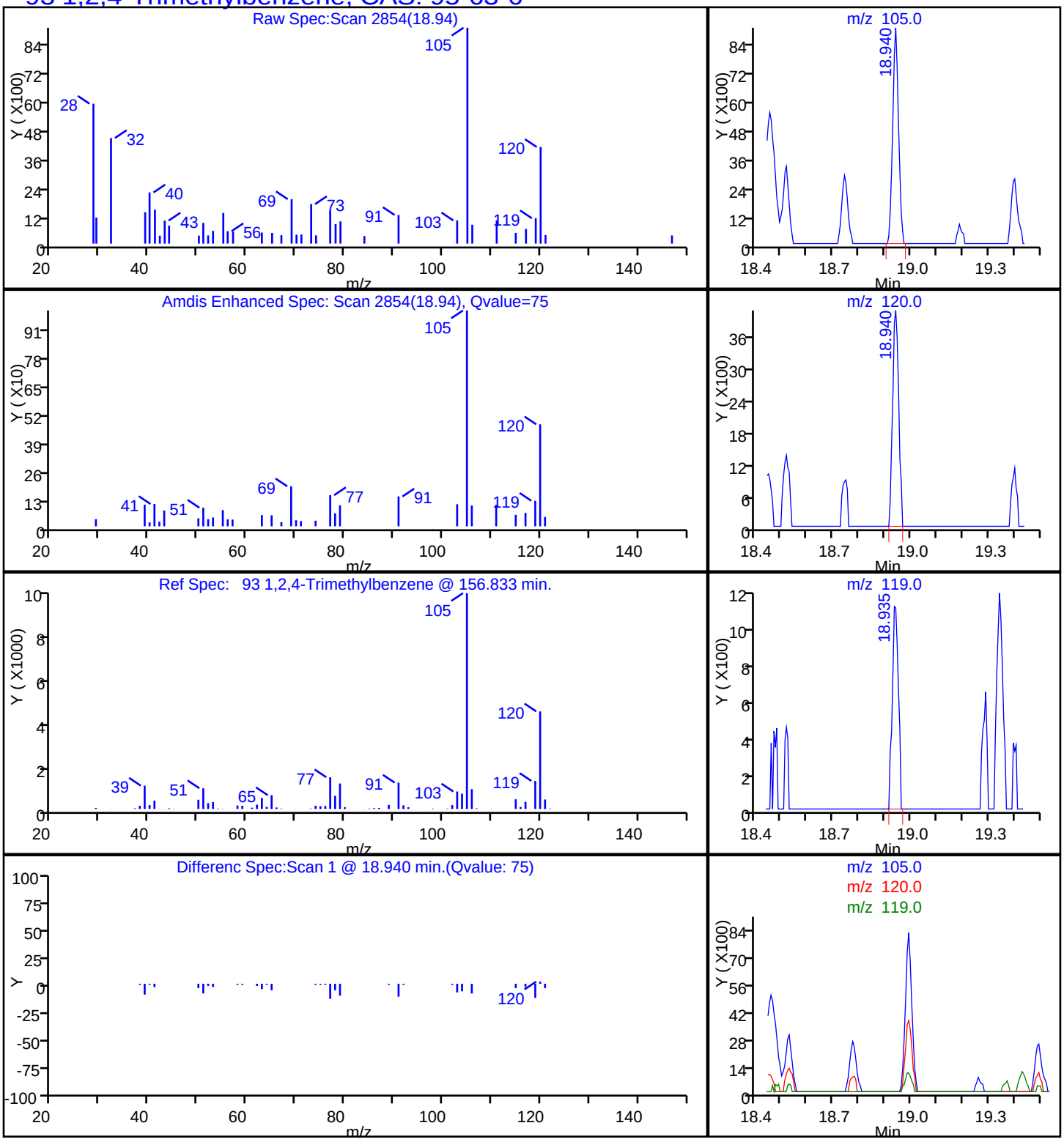
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



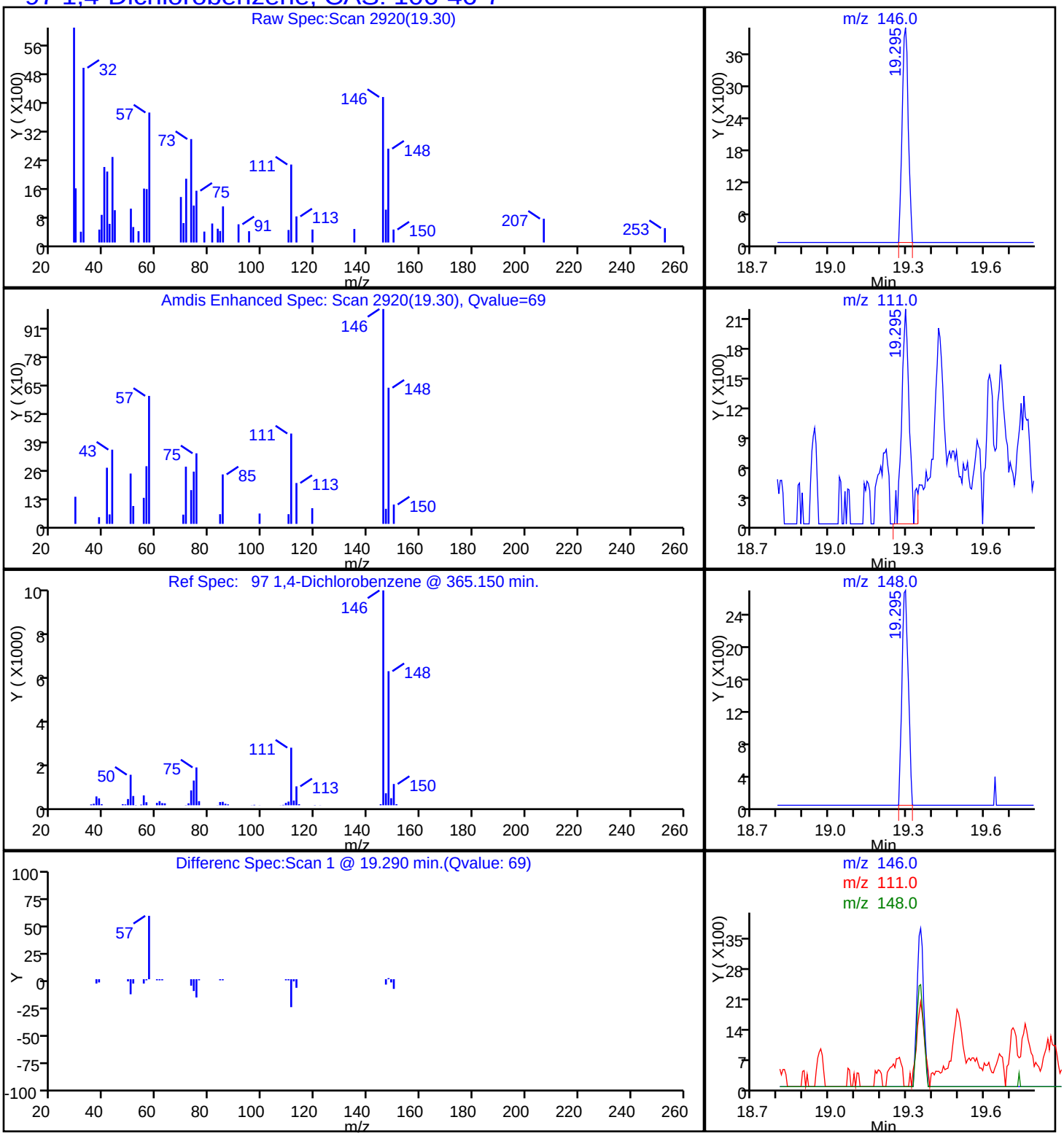
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



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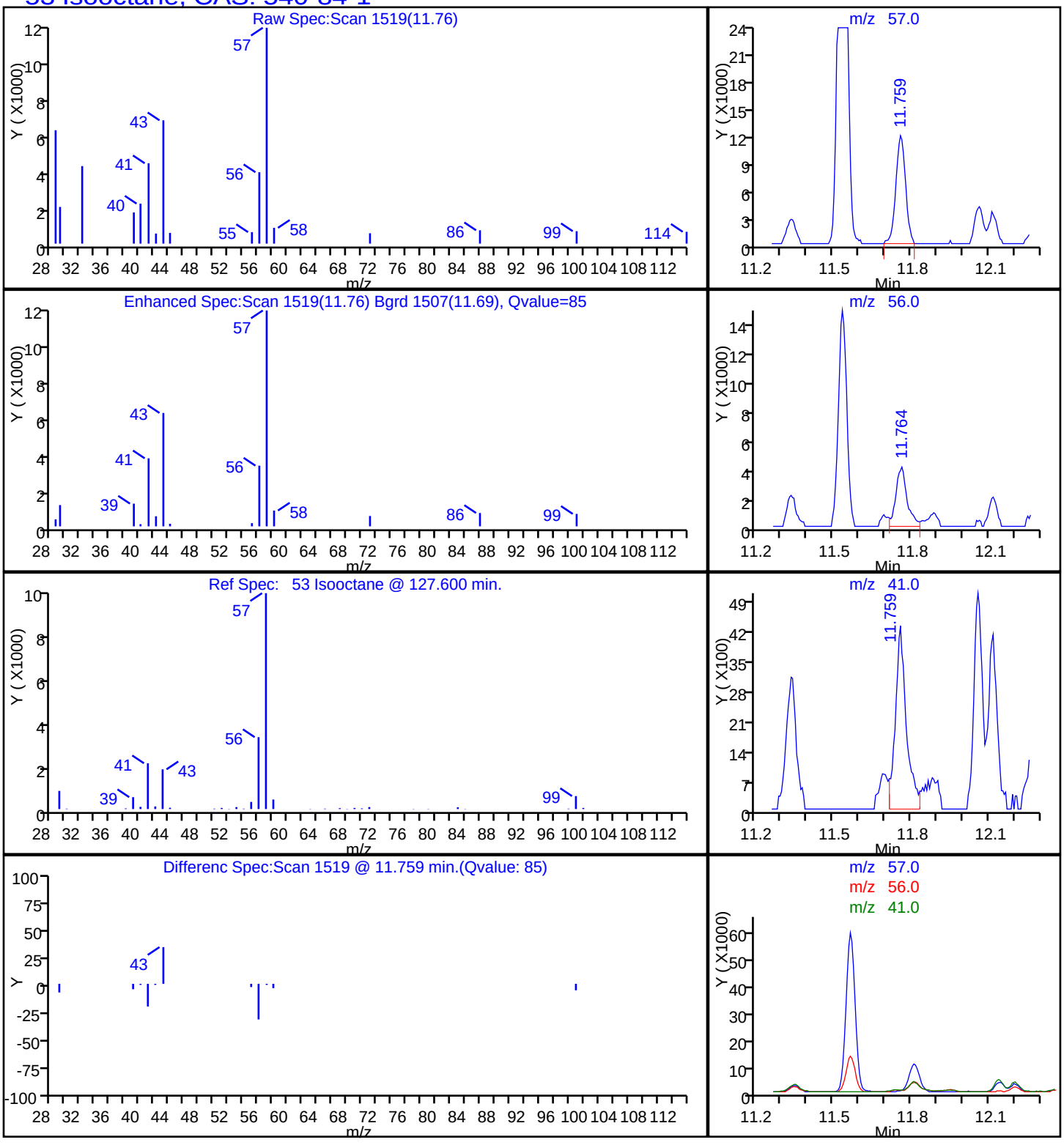
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



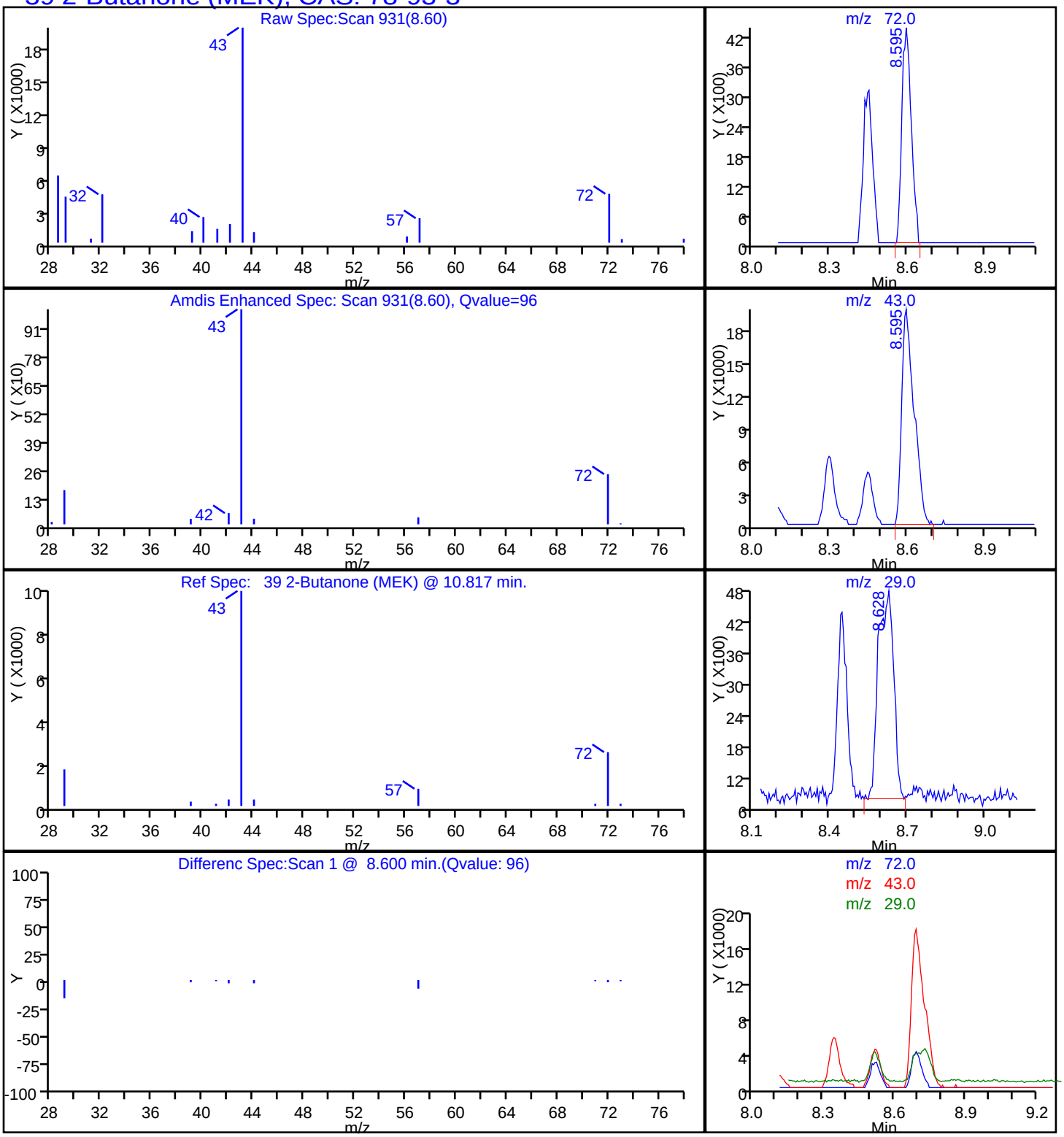
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

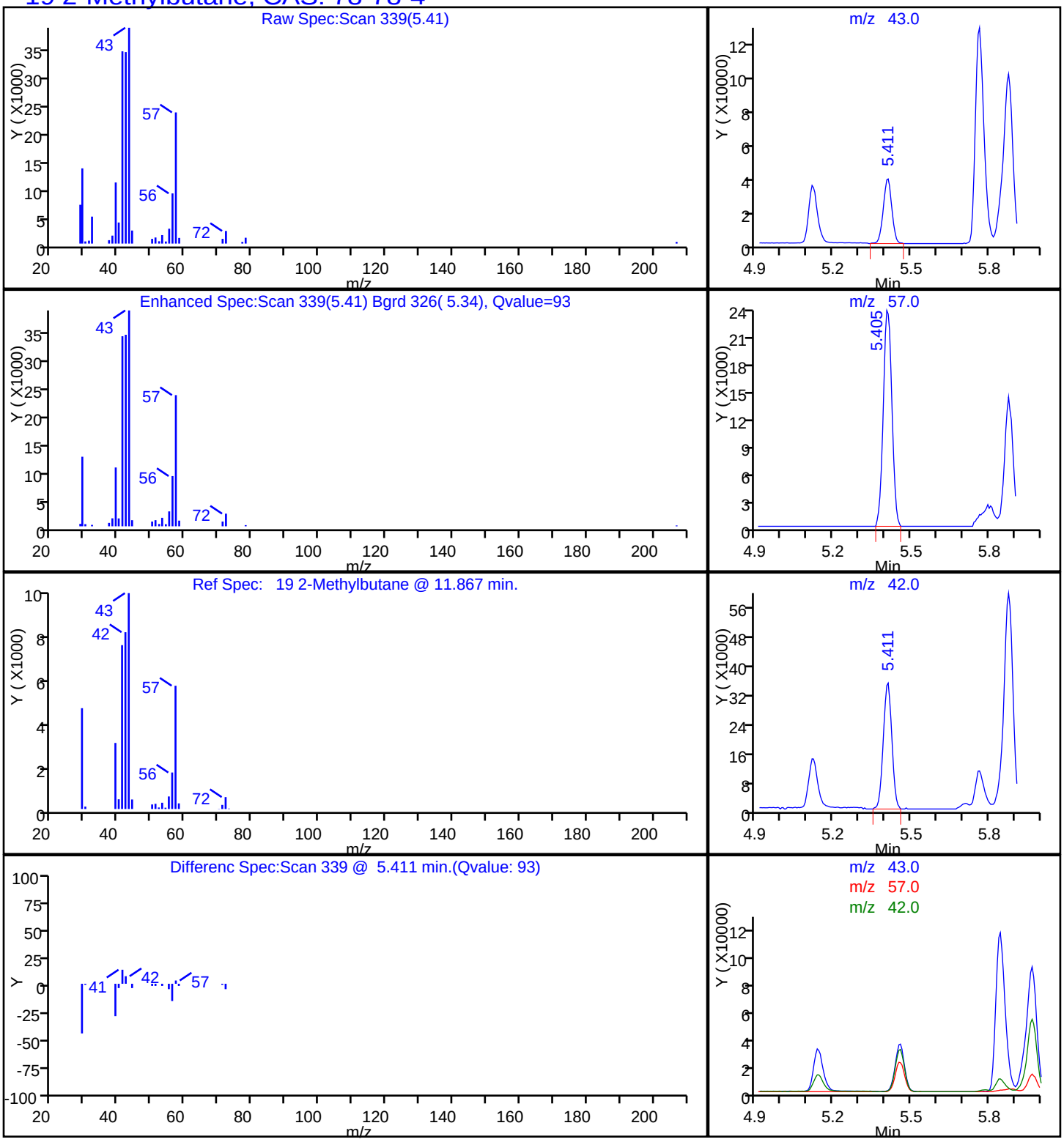
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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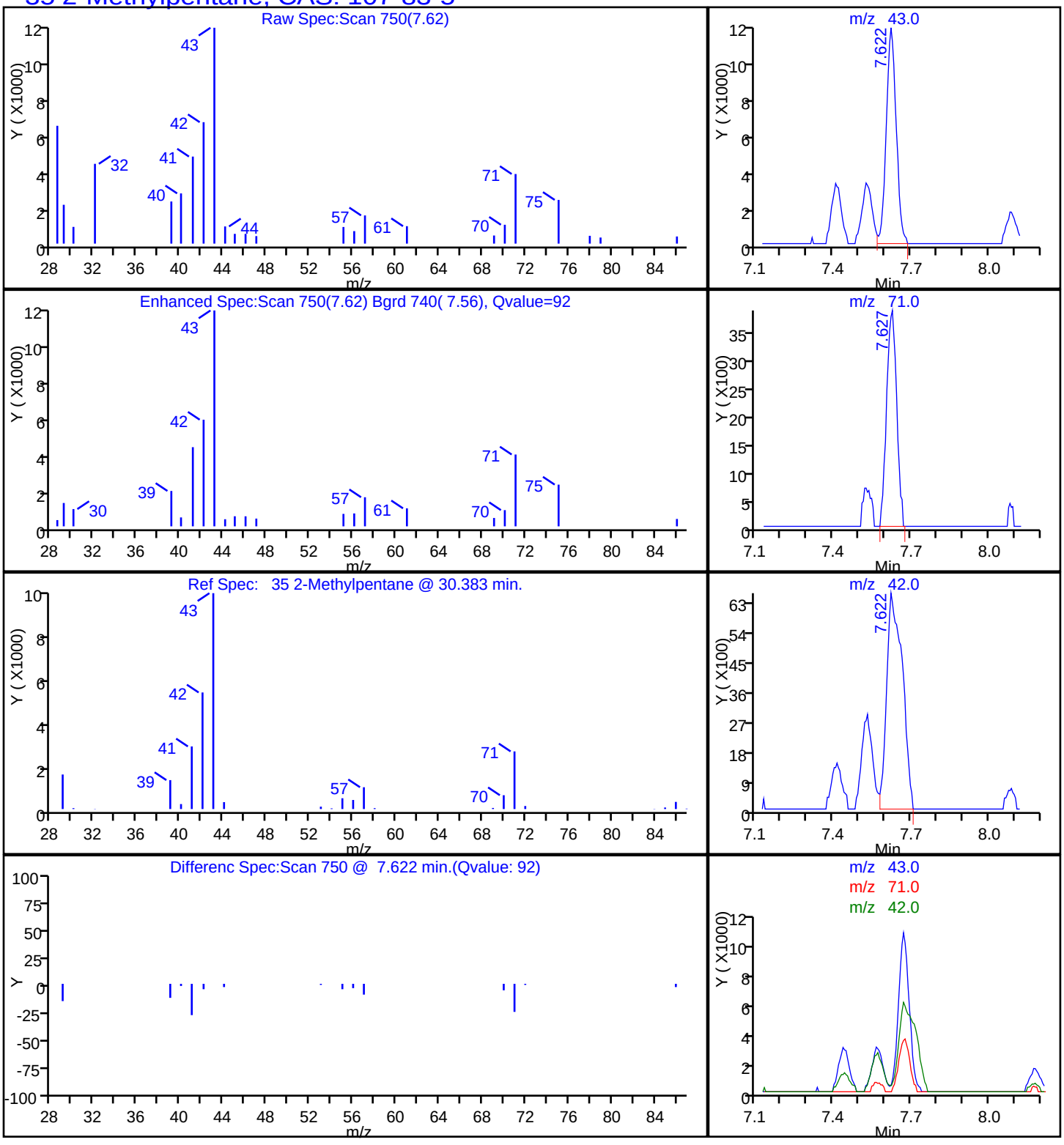
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11
Client ID:	PCV-IA2-B11		
Operator ID:	403648	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5



Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

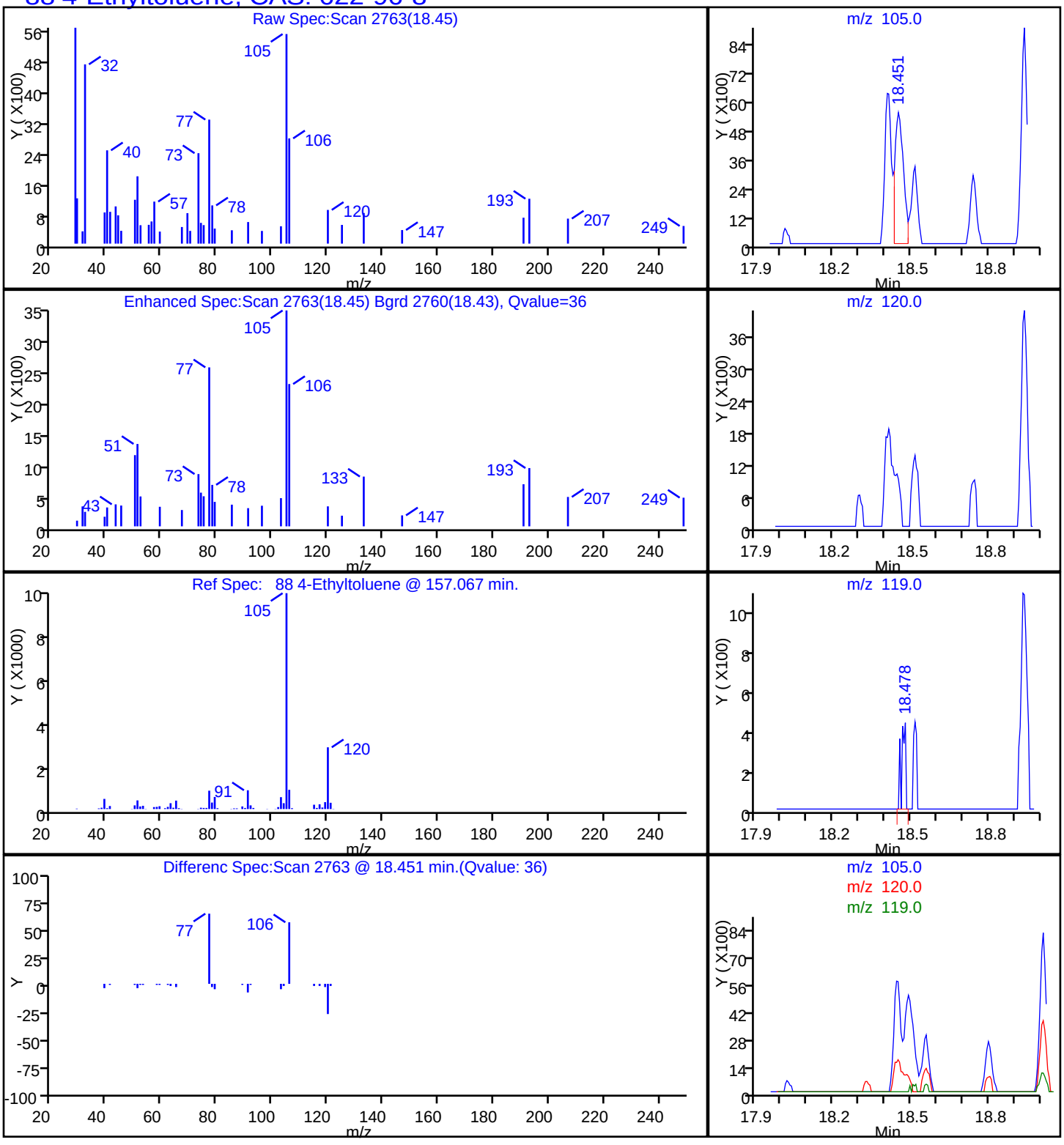
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



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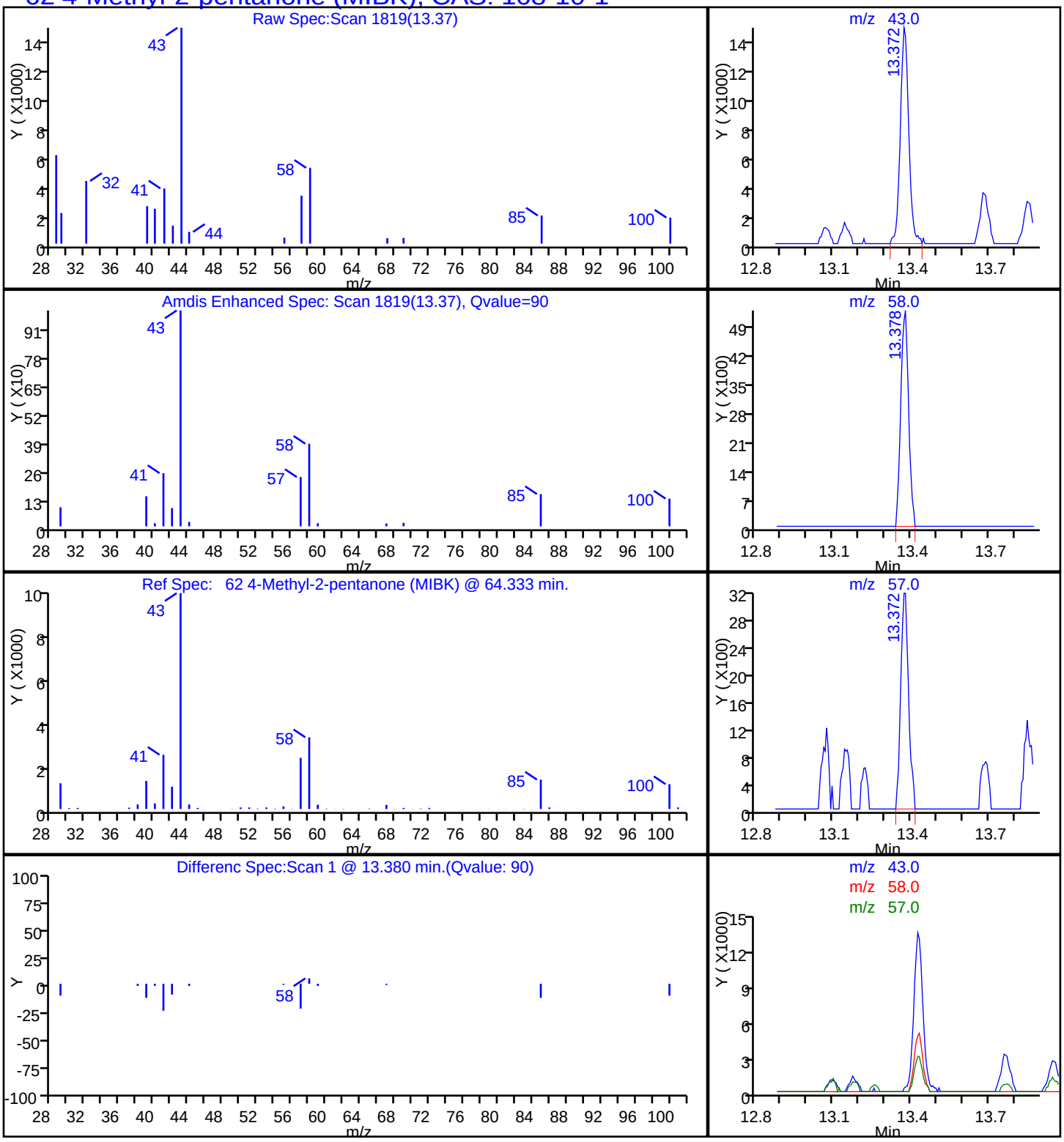
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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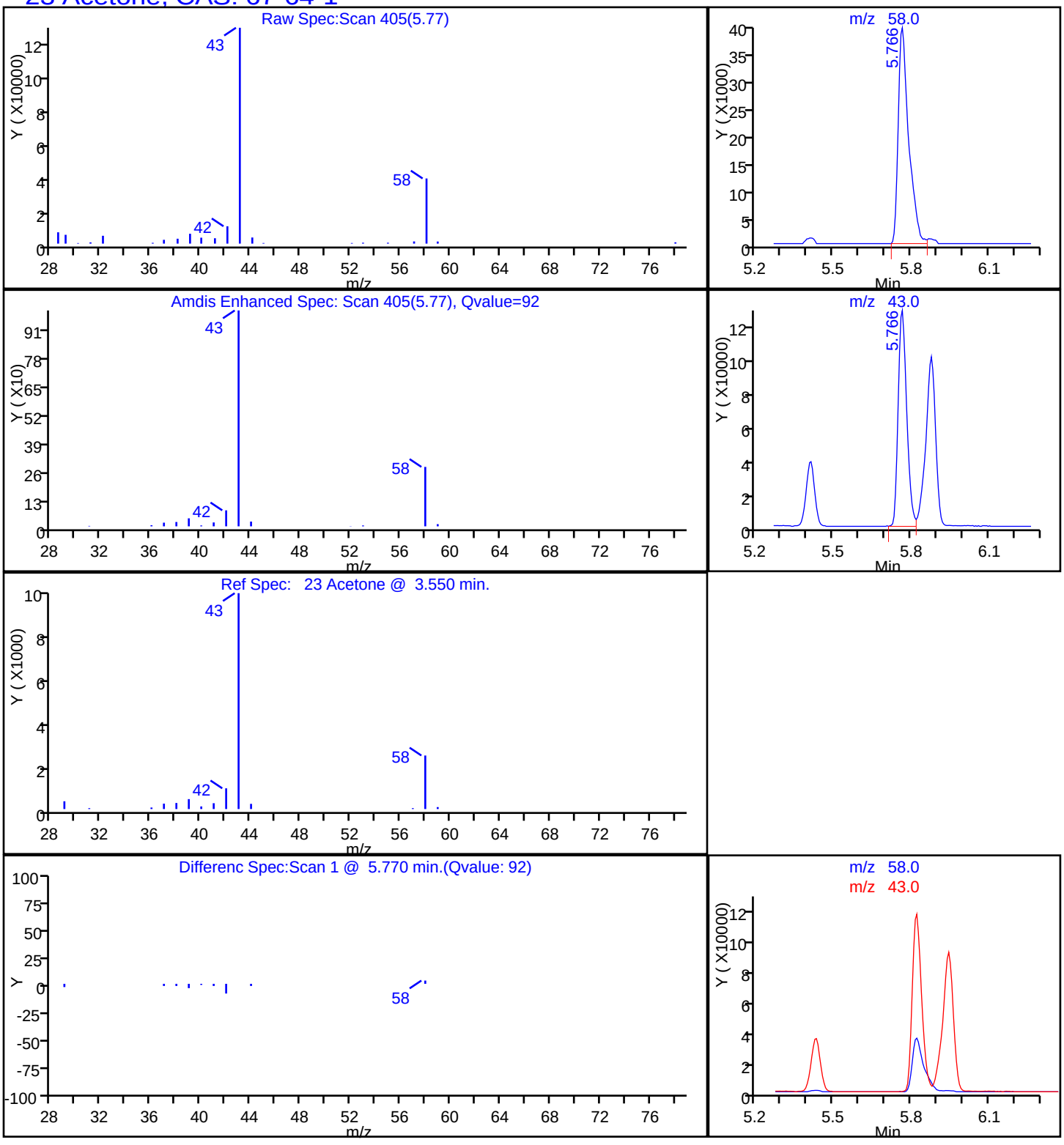
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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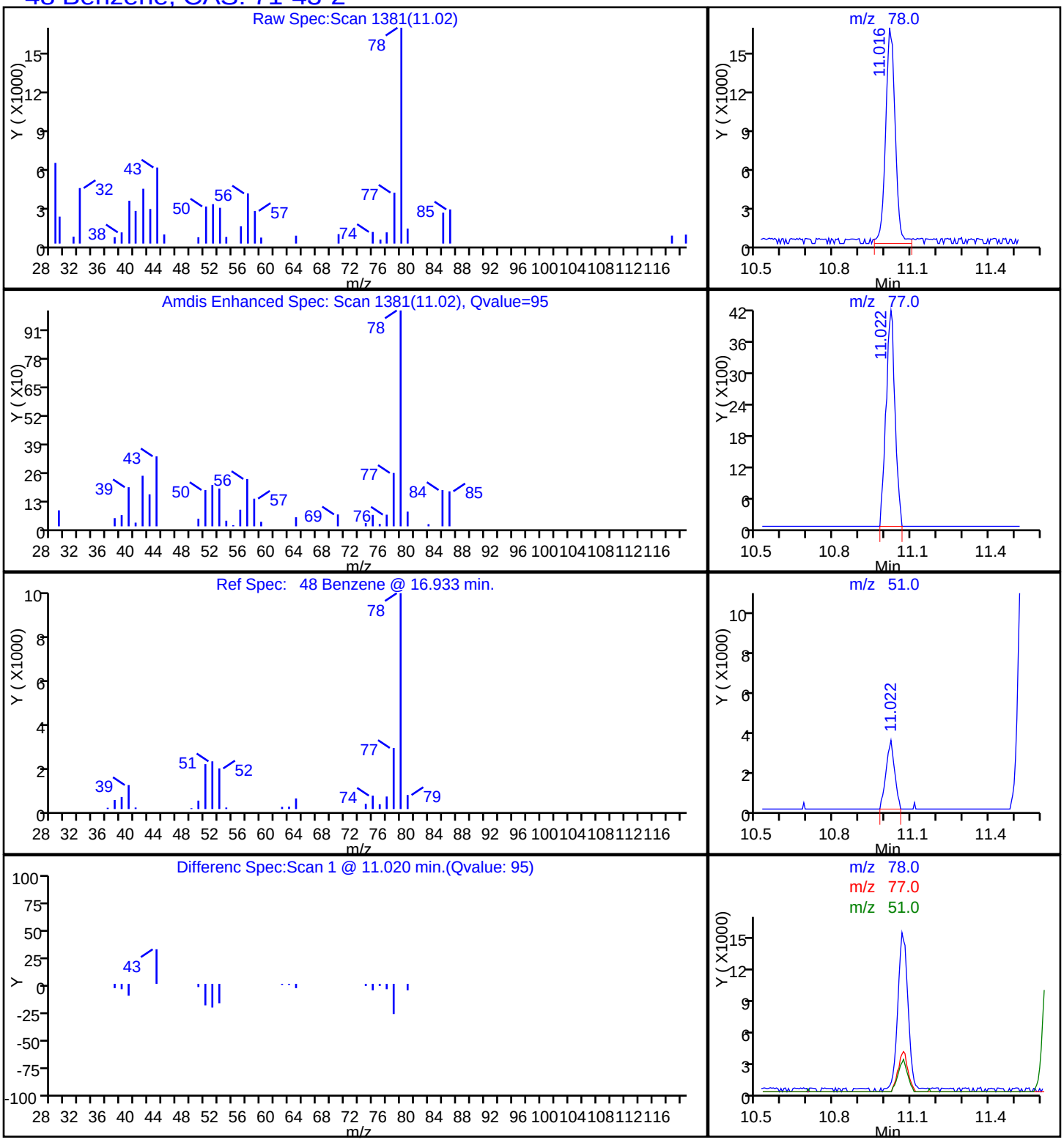
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11
Client ID:	PCV-IA2-B11		
Operator ID:	403648	ALS Bottle#:	13 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



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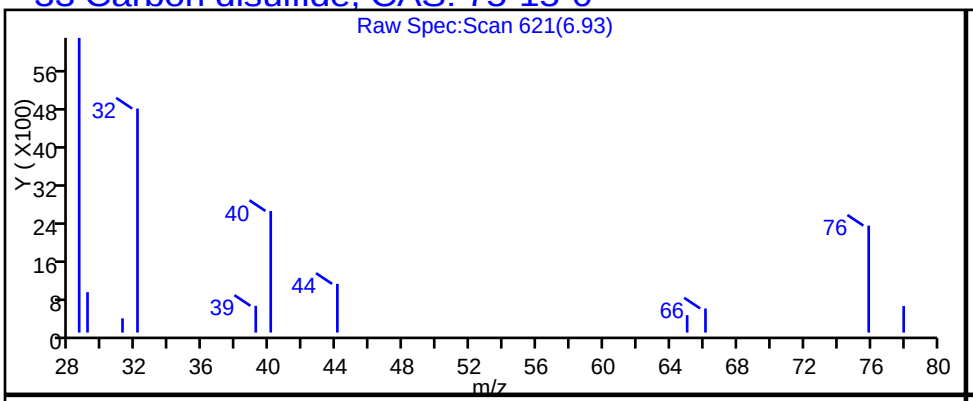
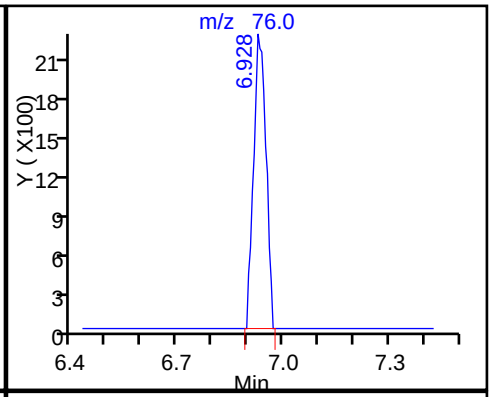
TestAmerica Knoxville

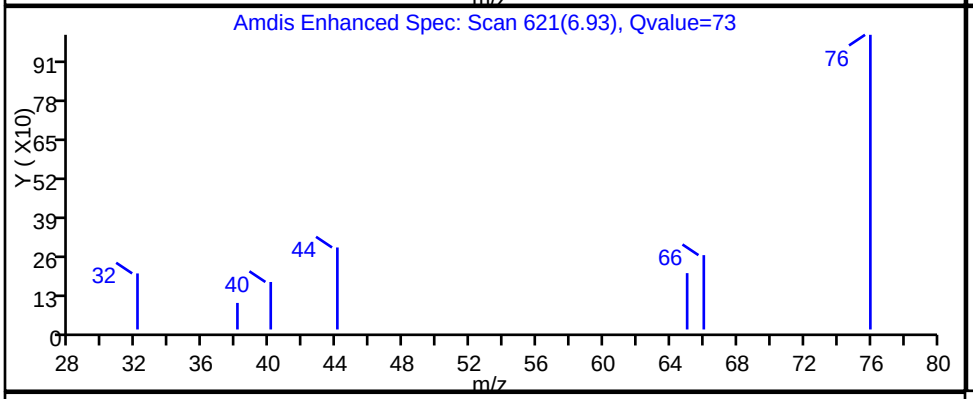
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

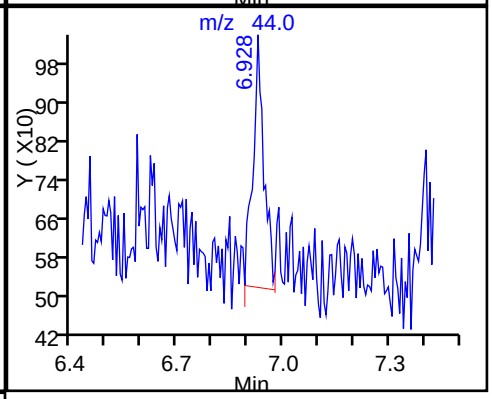
Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

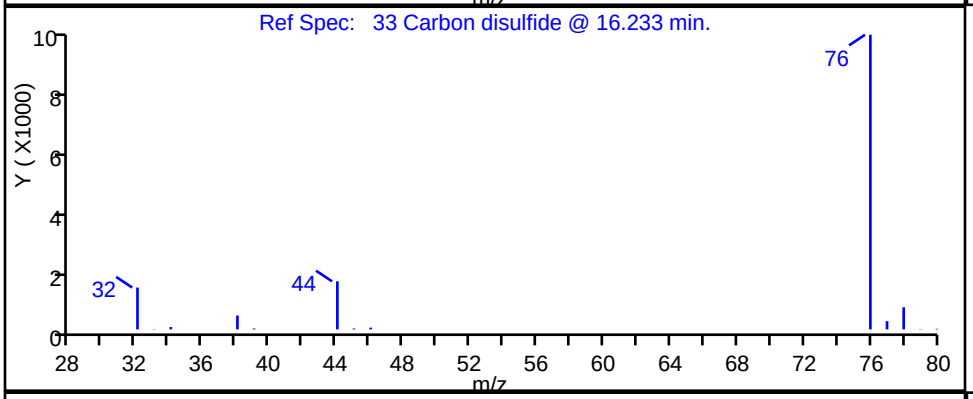
33 Carbon disulfide, CAS: 75-15-0

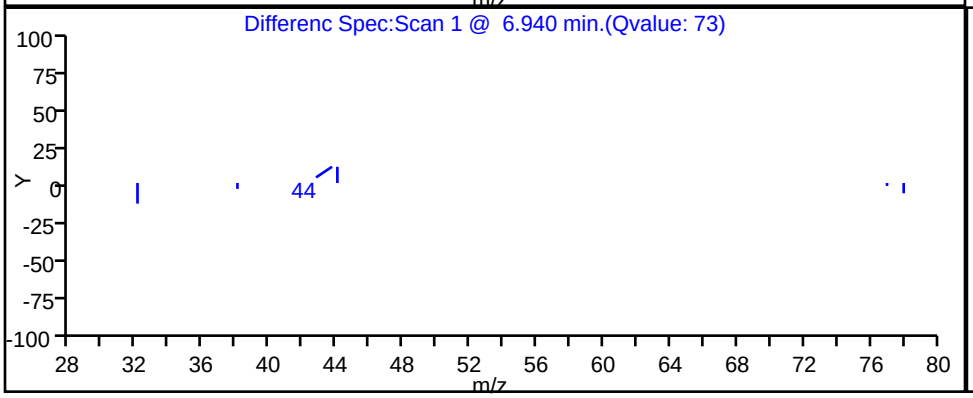


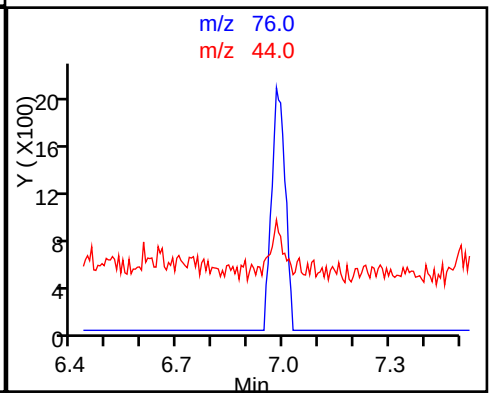












Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

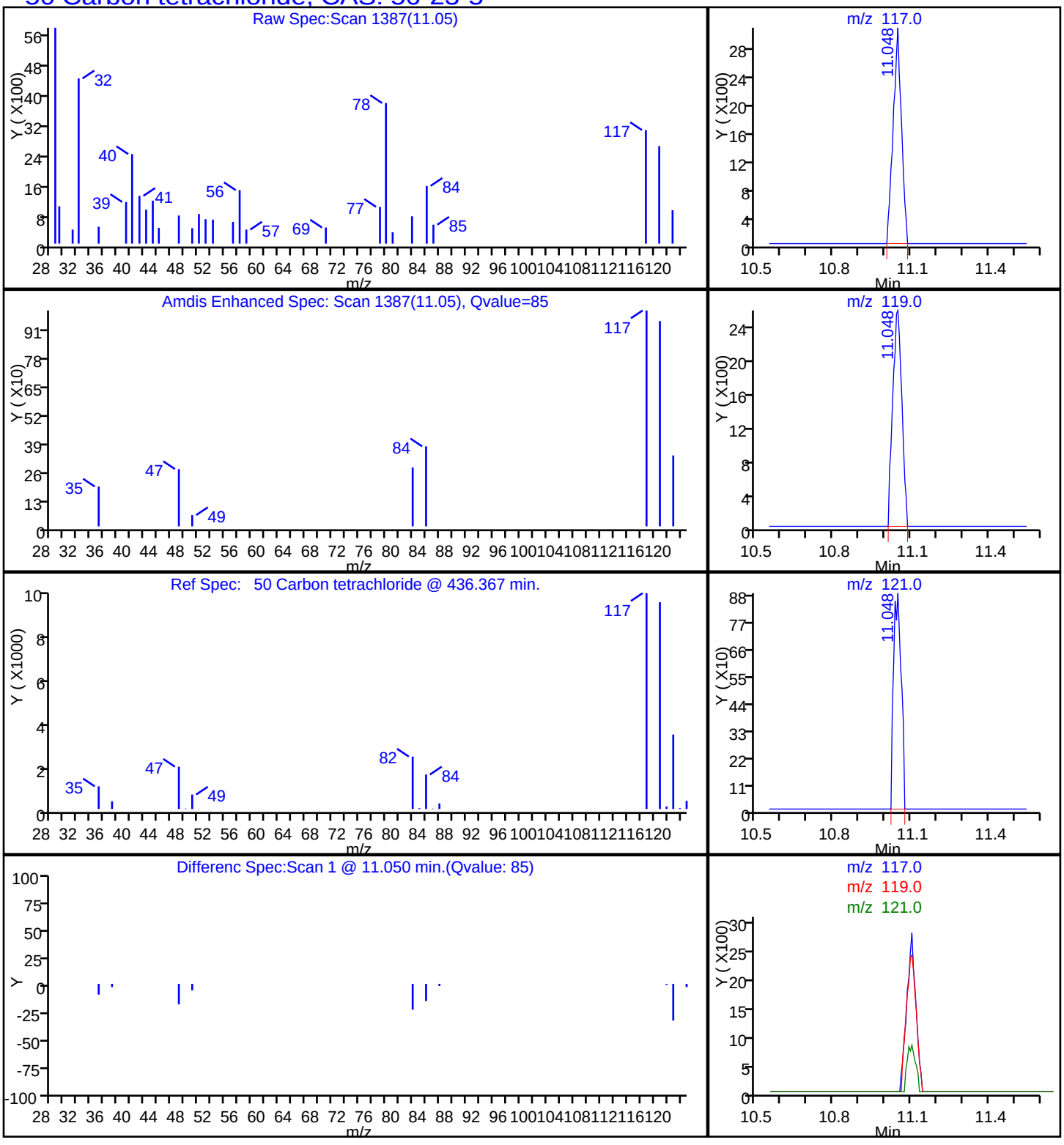
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

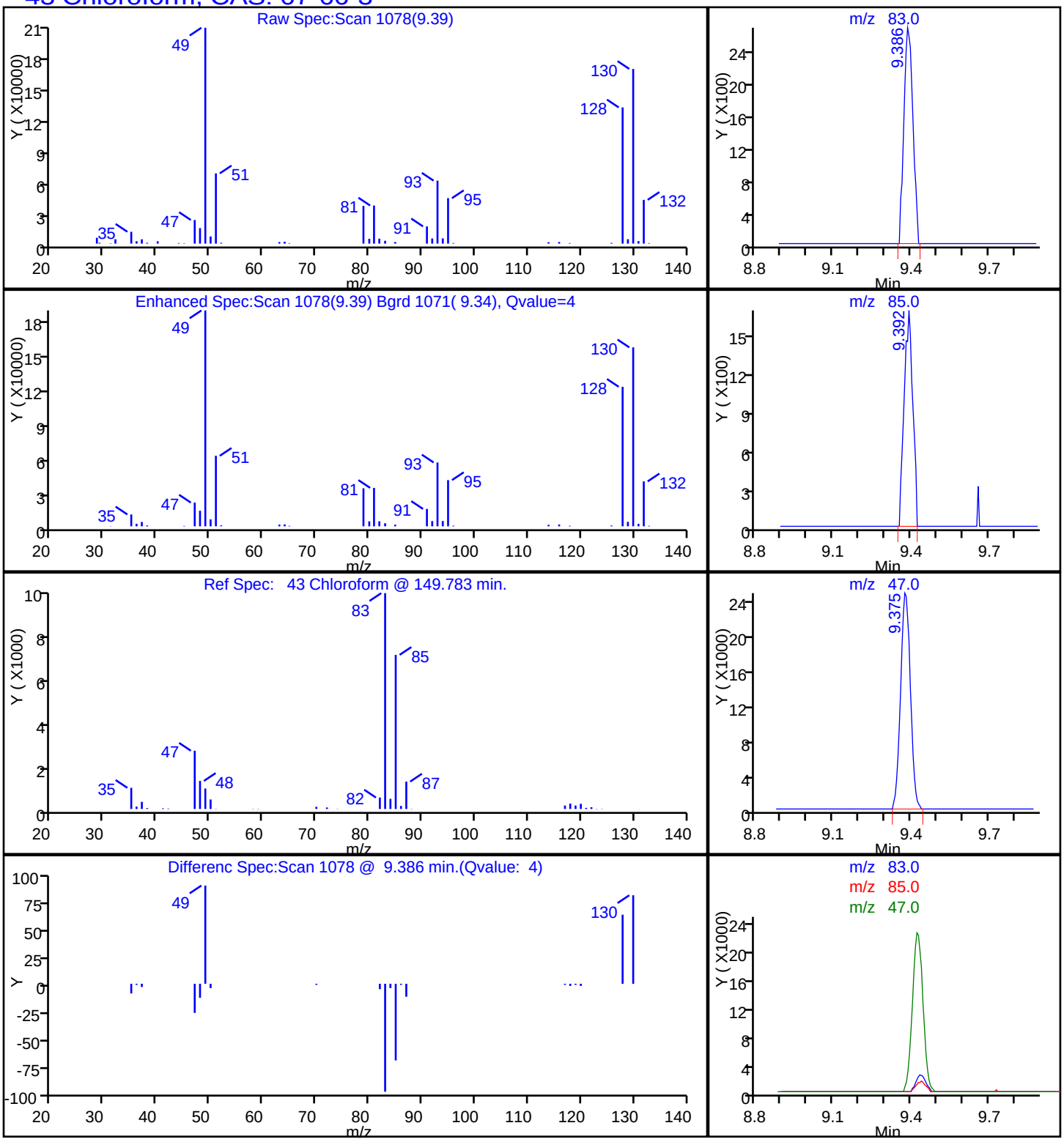
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



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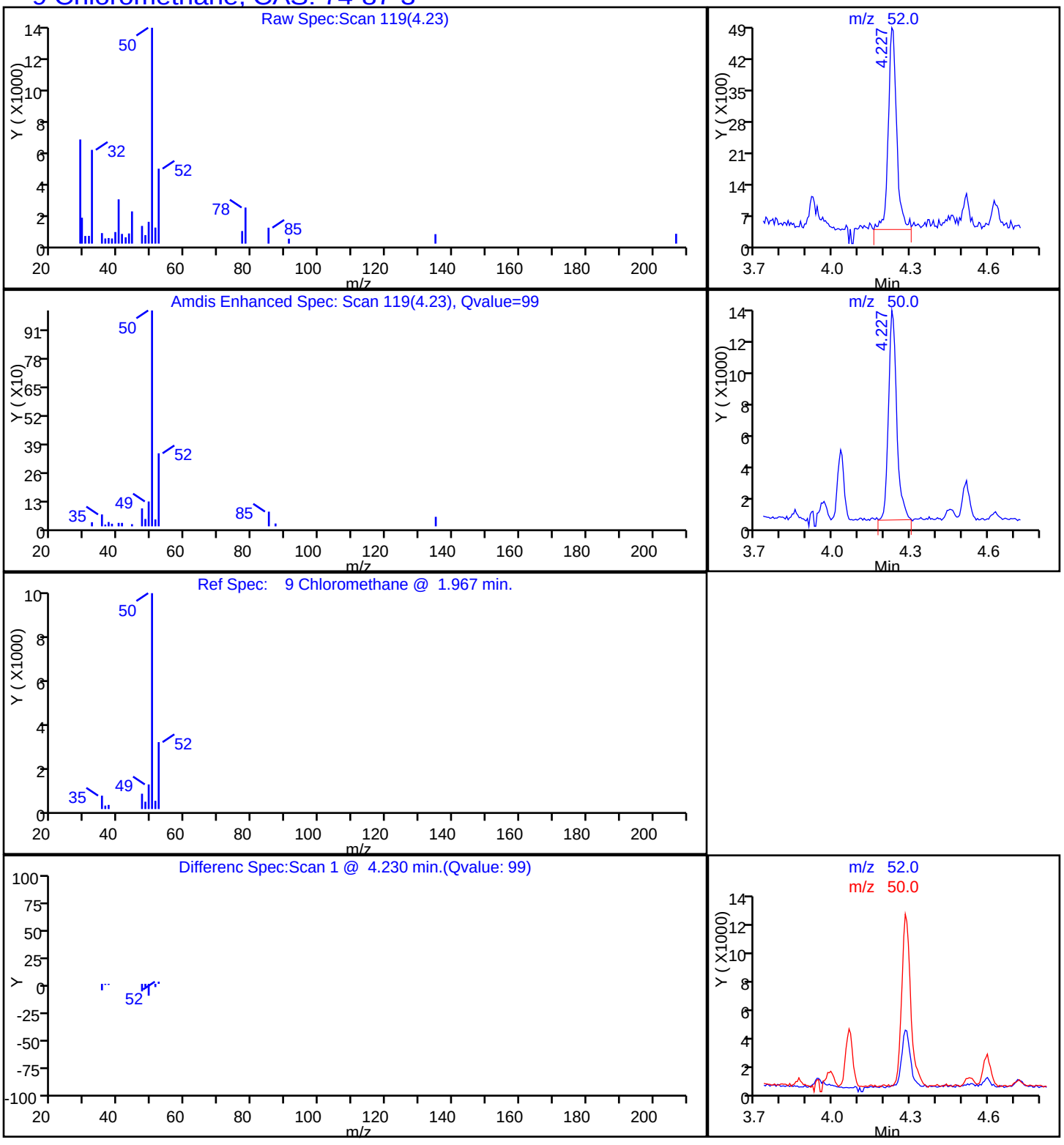
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

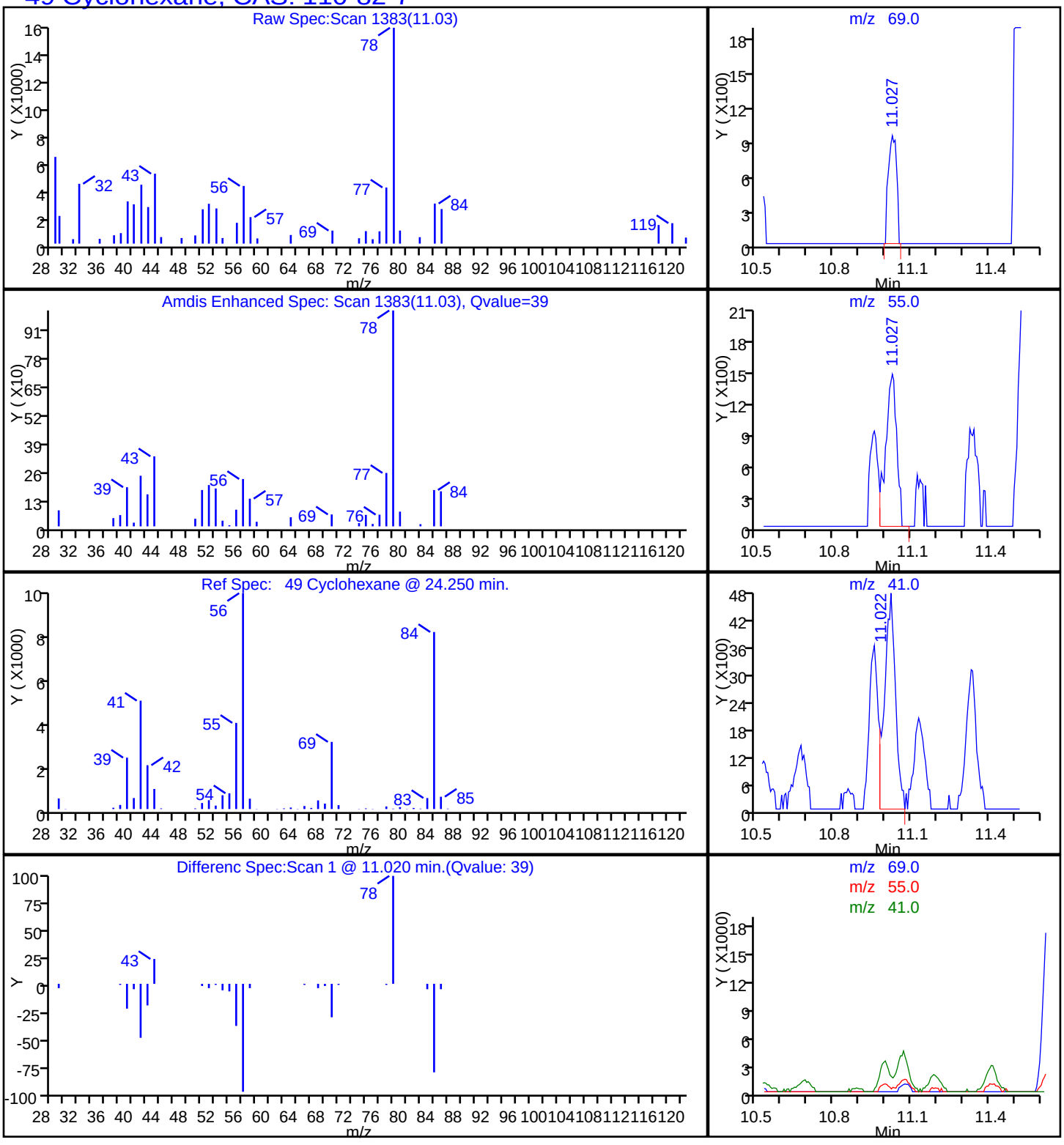
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



Report Date: 20-Mar-2014 14:57:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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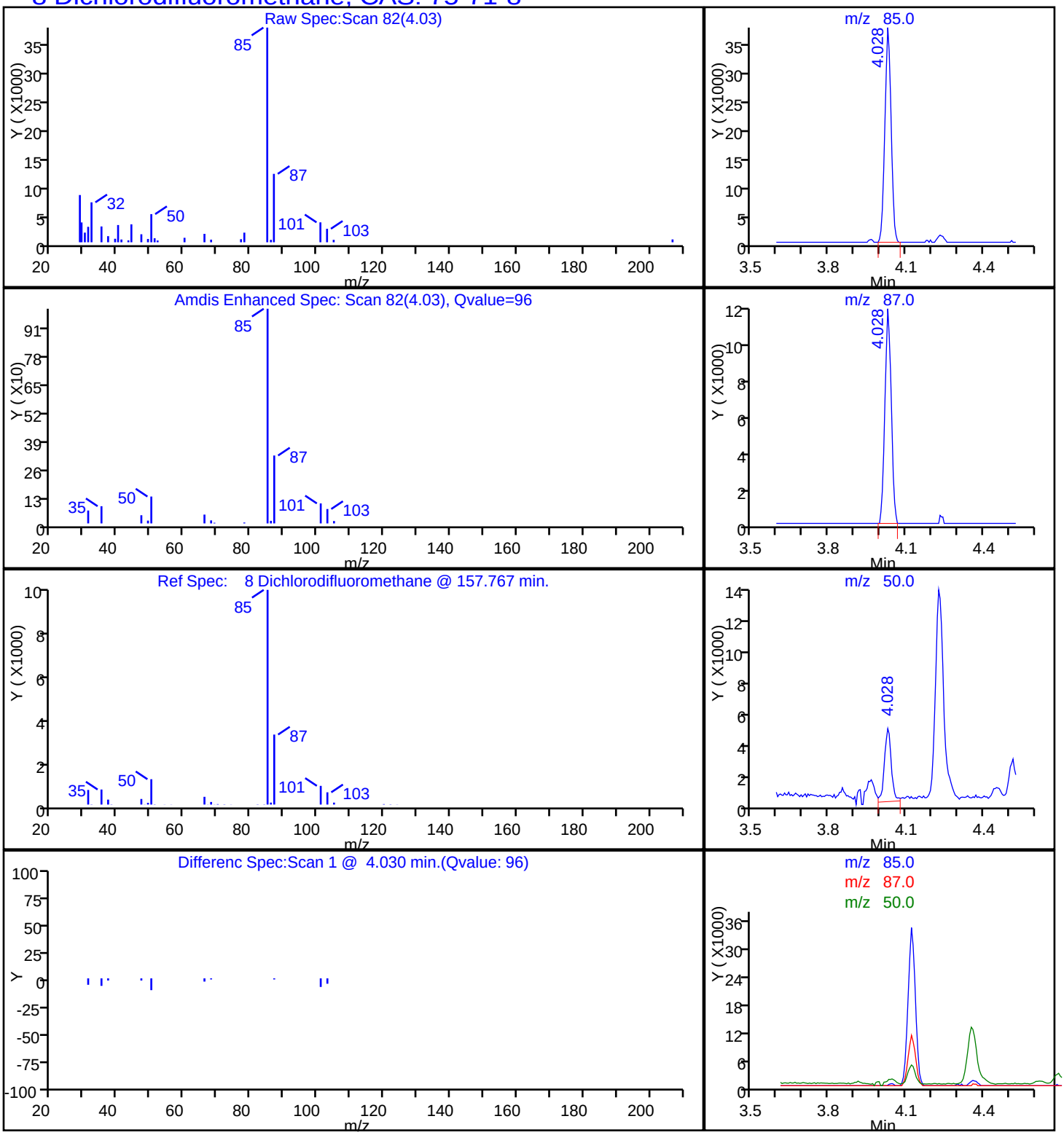
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

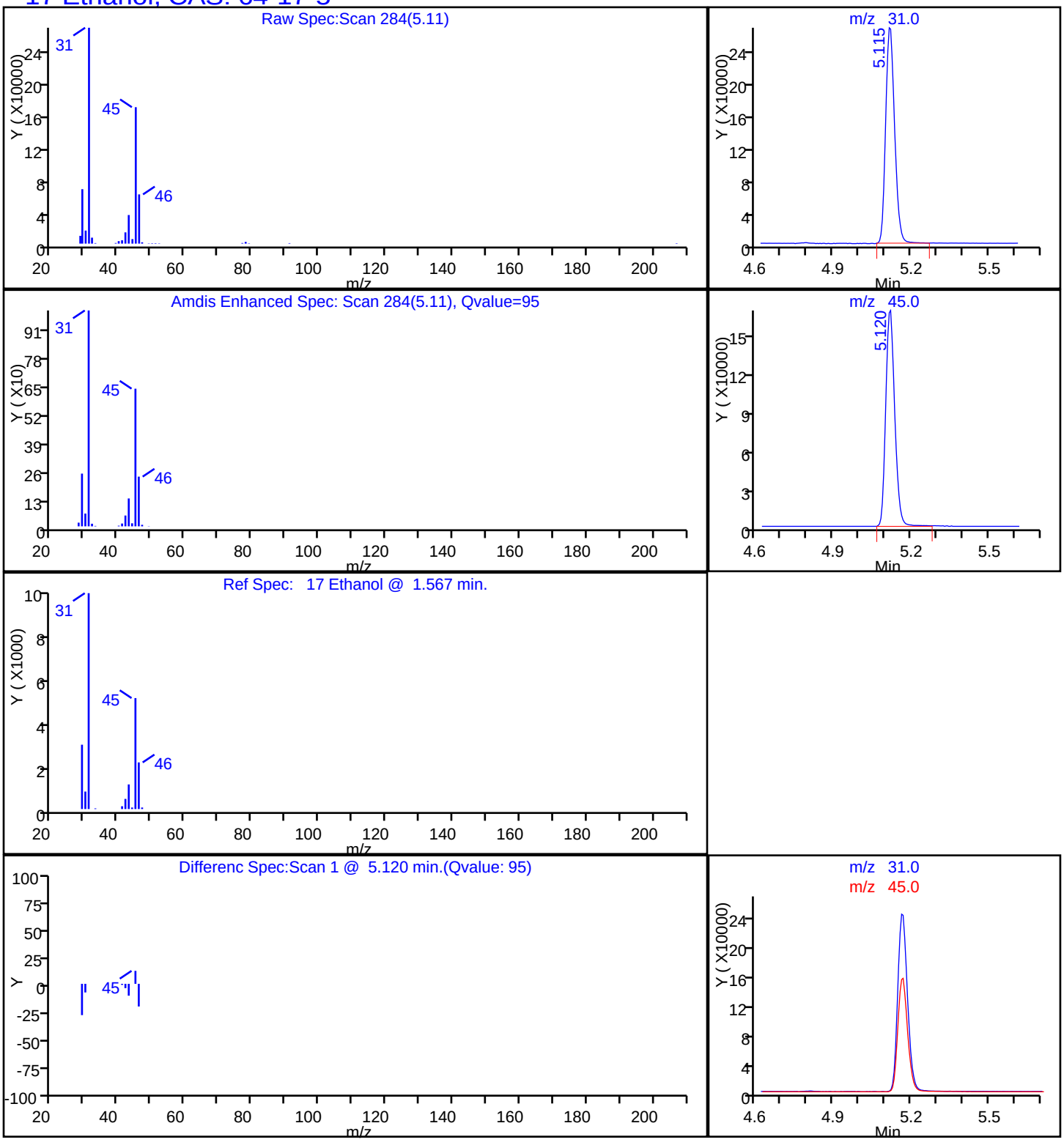


Report Date: 20-Mar-2014 14:57:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D				
Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



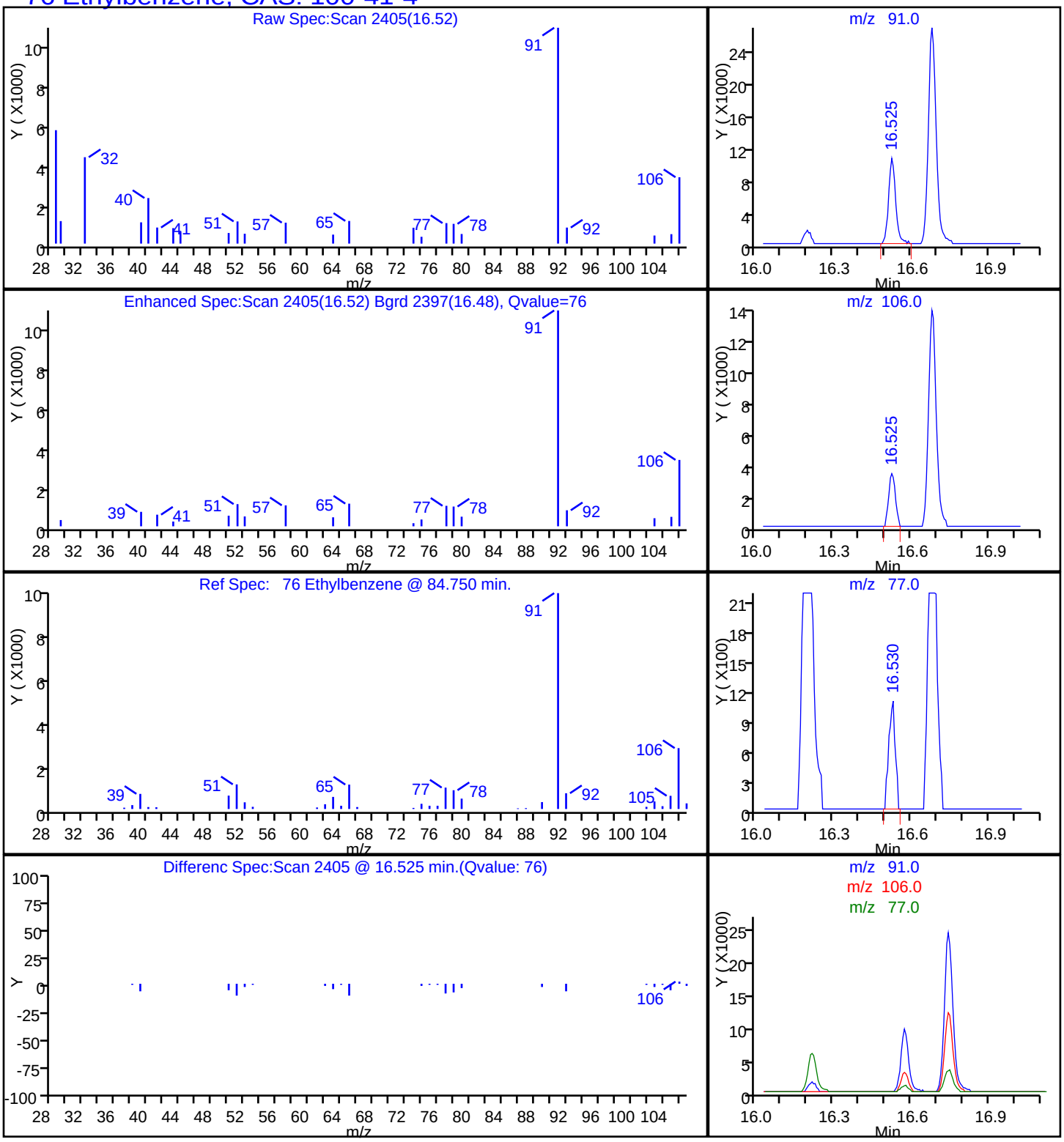
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



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Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30 Instrument ID: MJ

Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

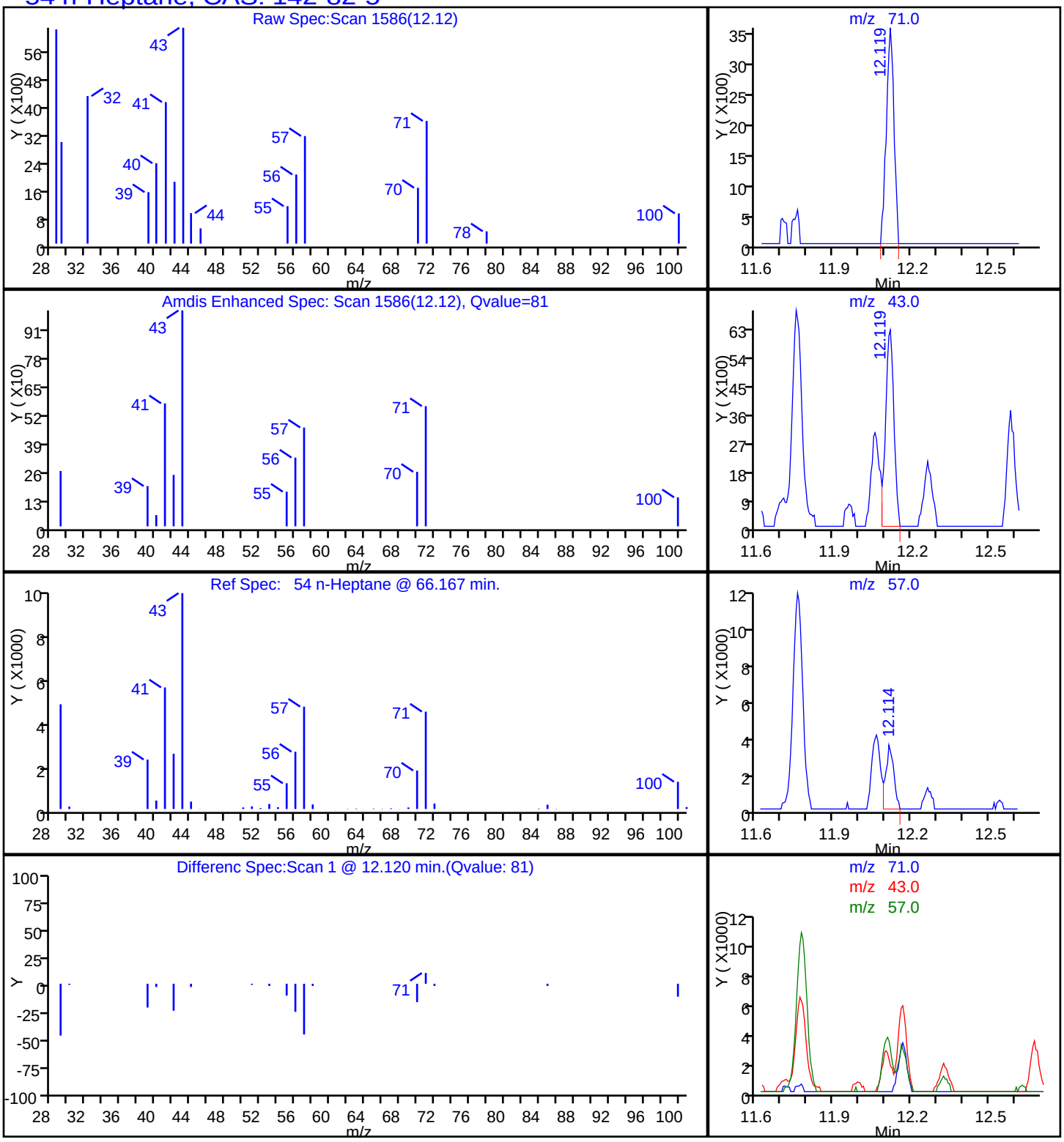
Operator ID: 403648 ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

54 n-Heptane, CAS: 142-82-5



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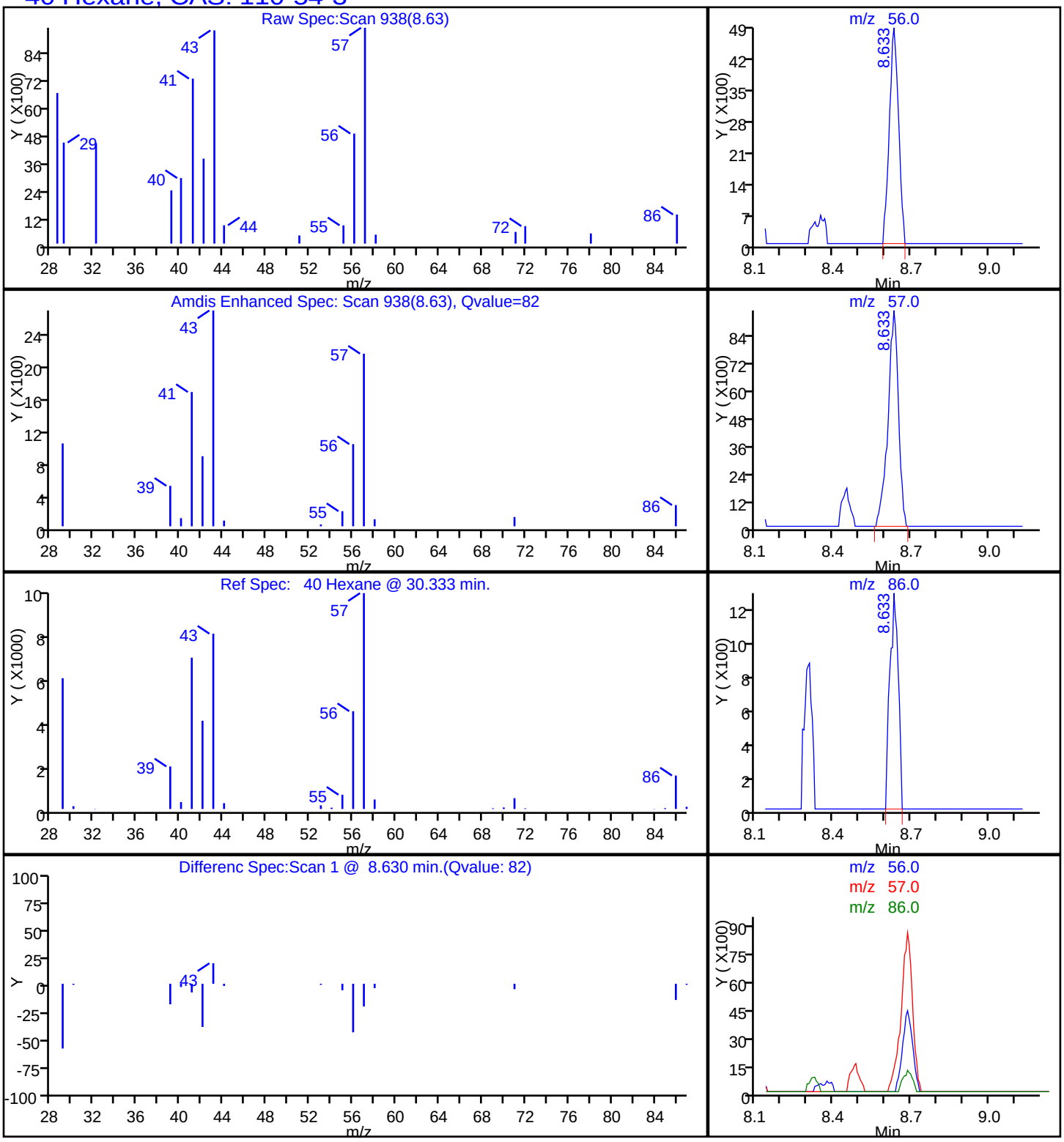
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



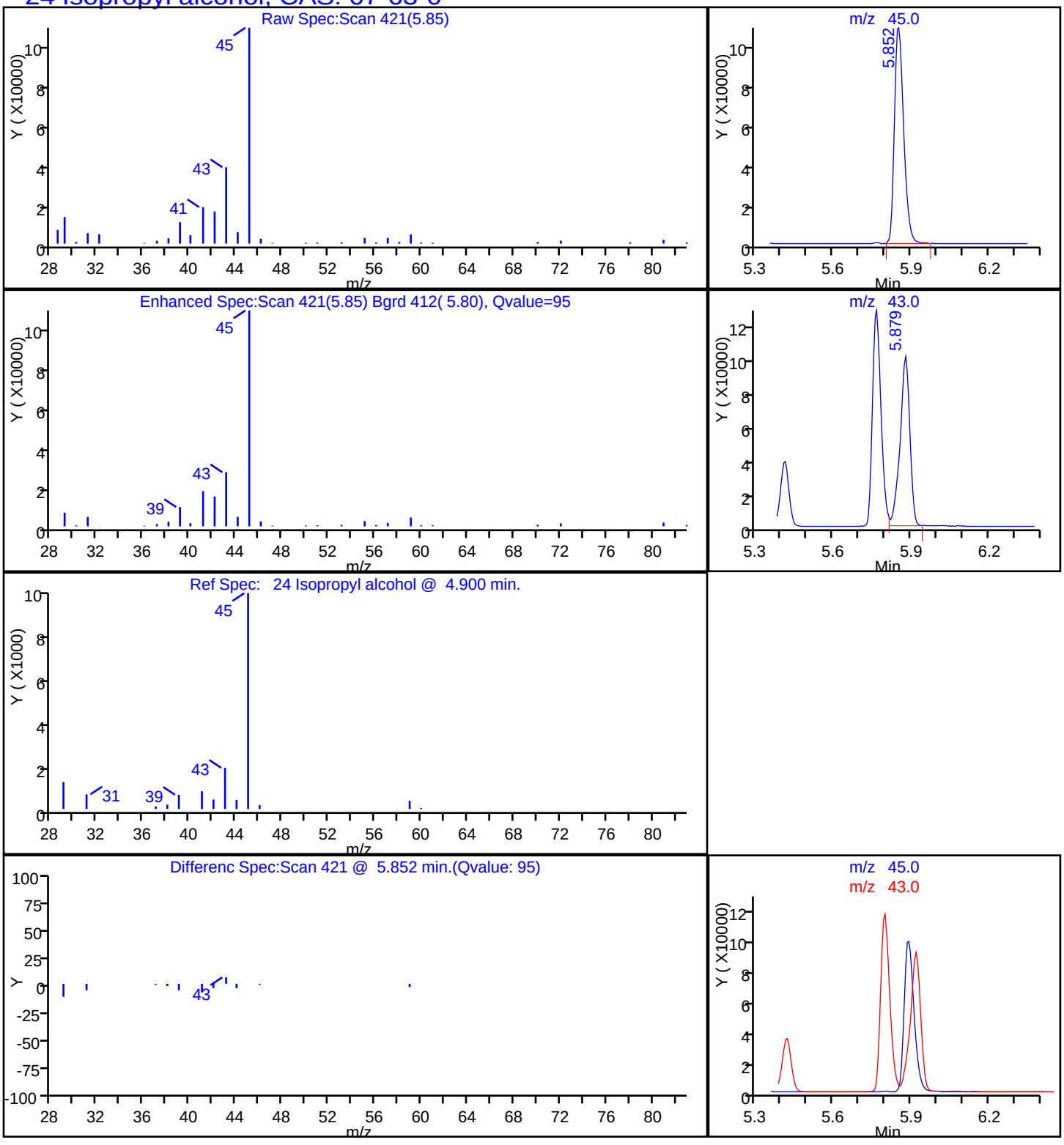
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



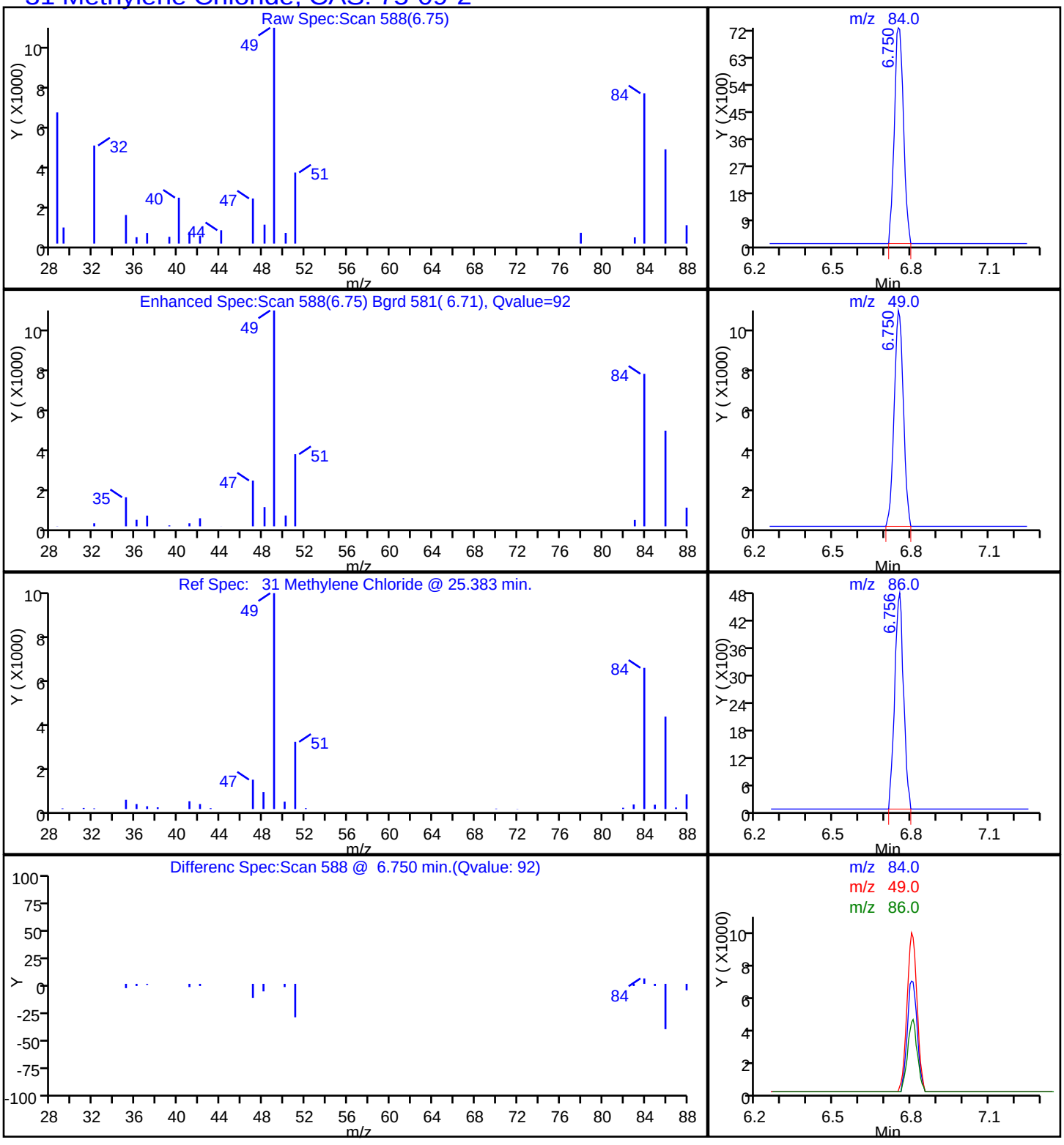
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



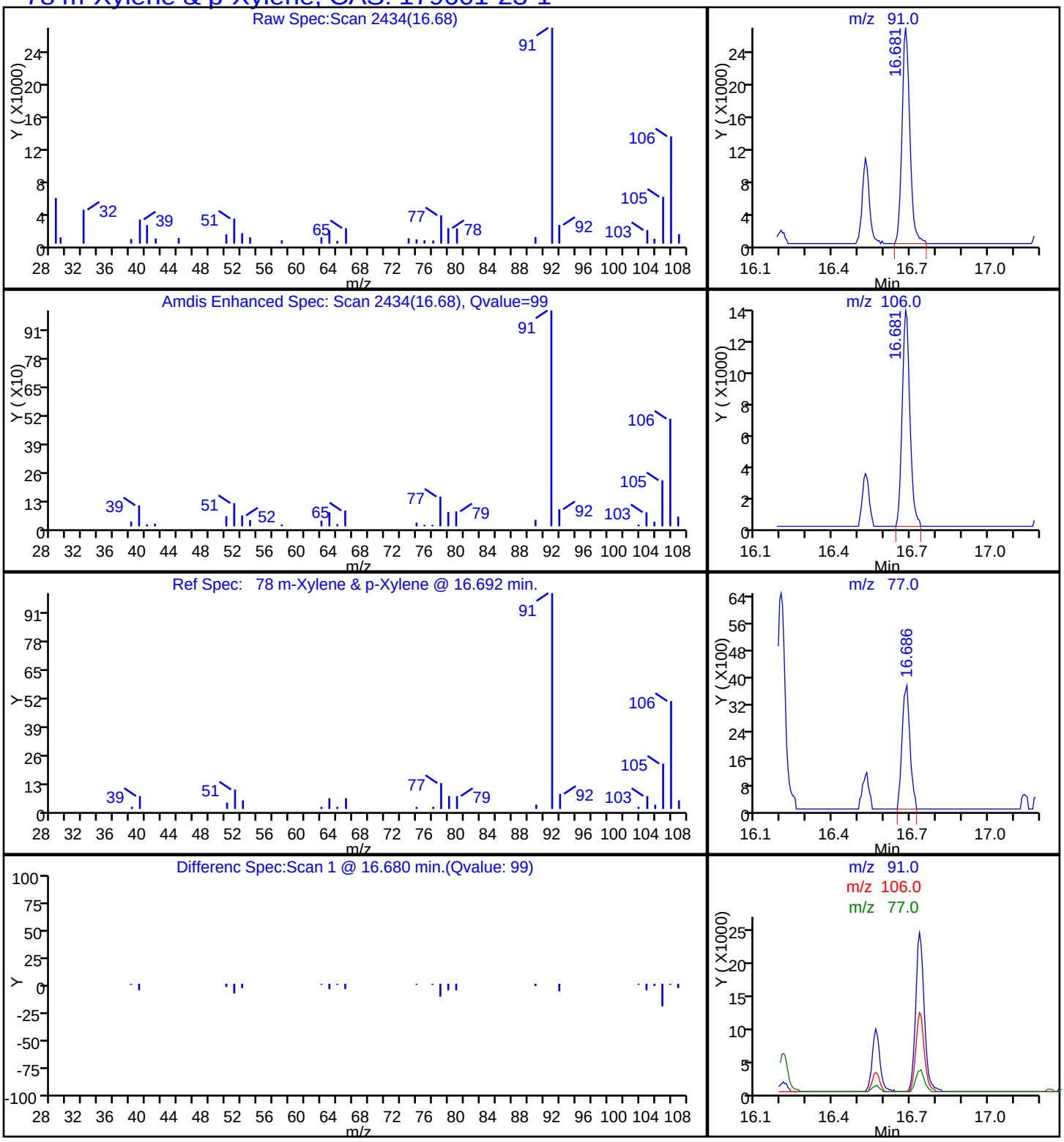
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



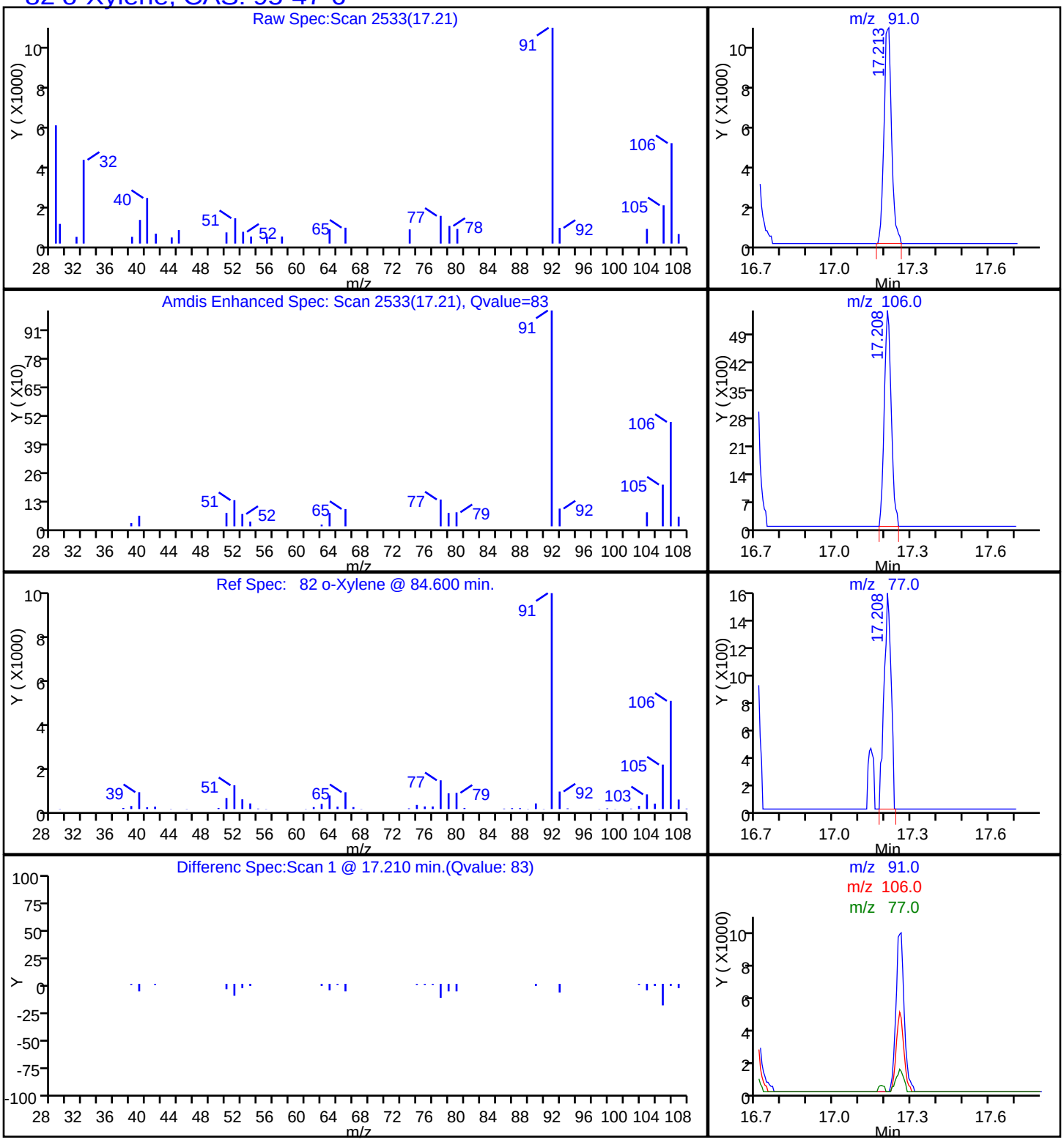
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



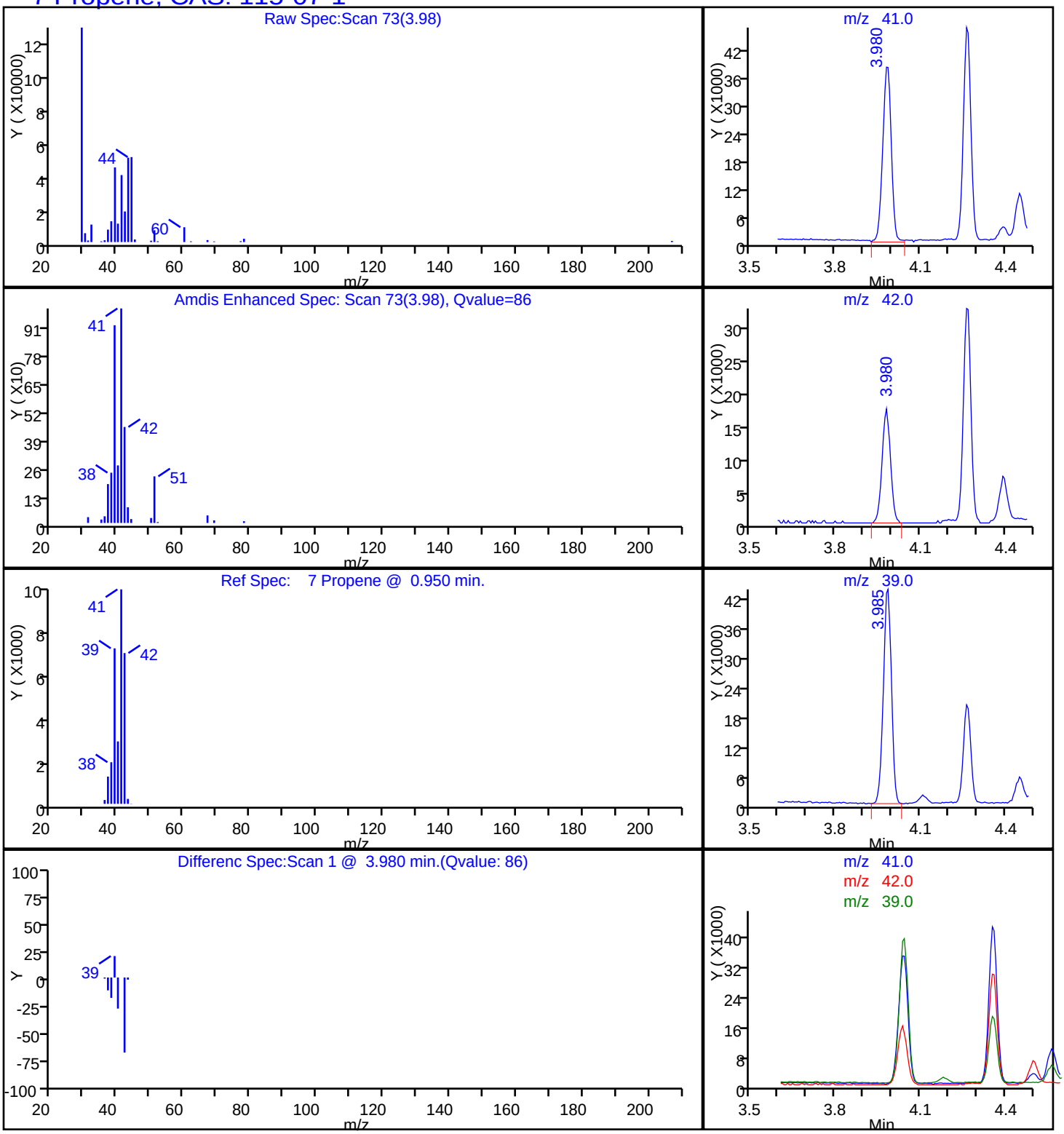
Report Date: 20-Mar-2014 14:57:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



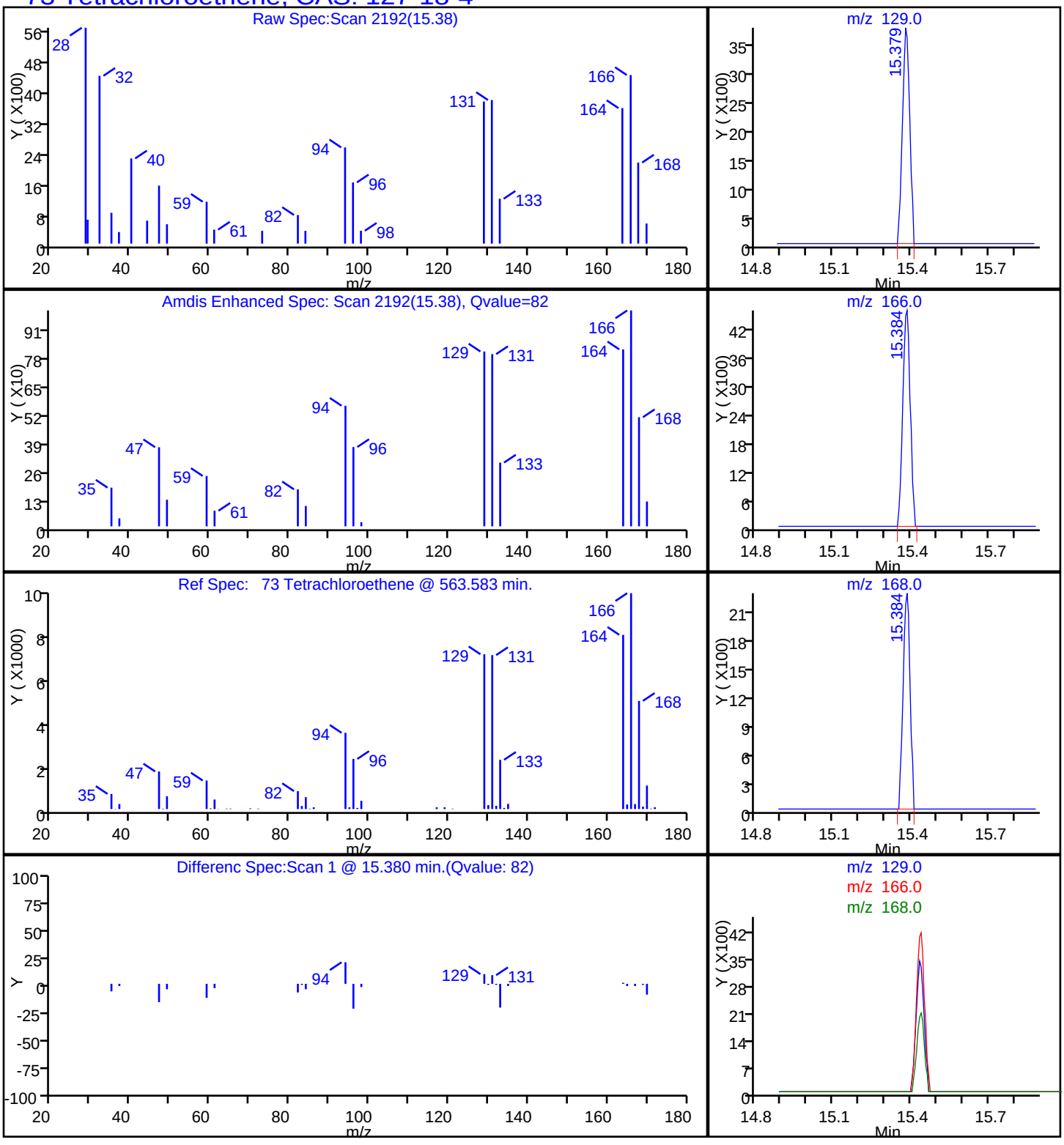
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



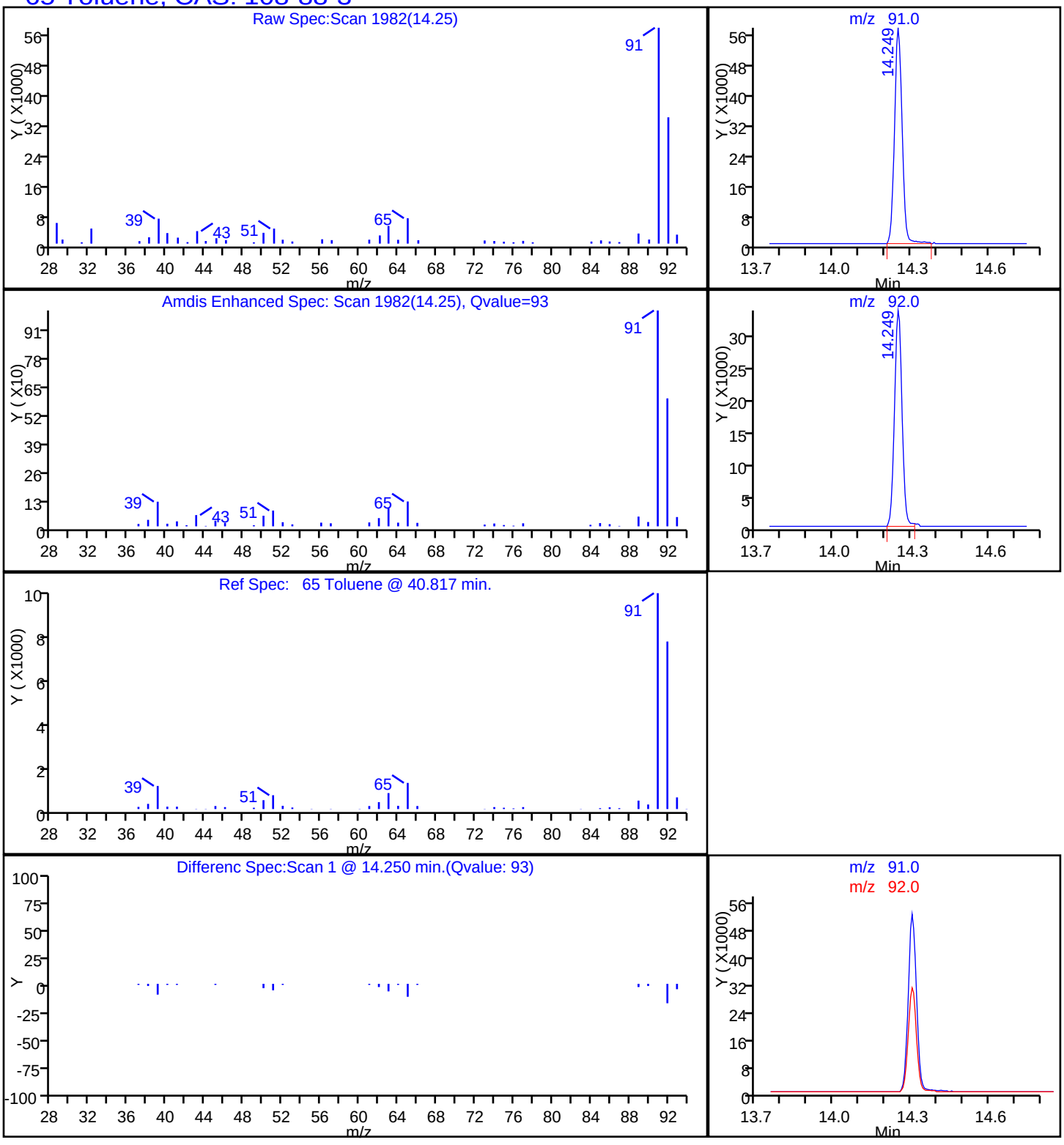
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



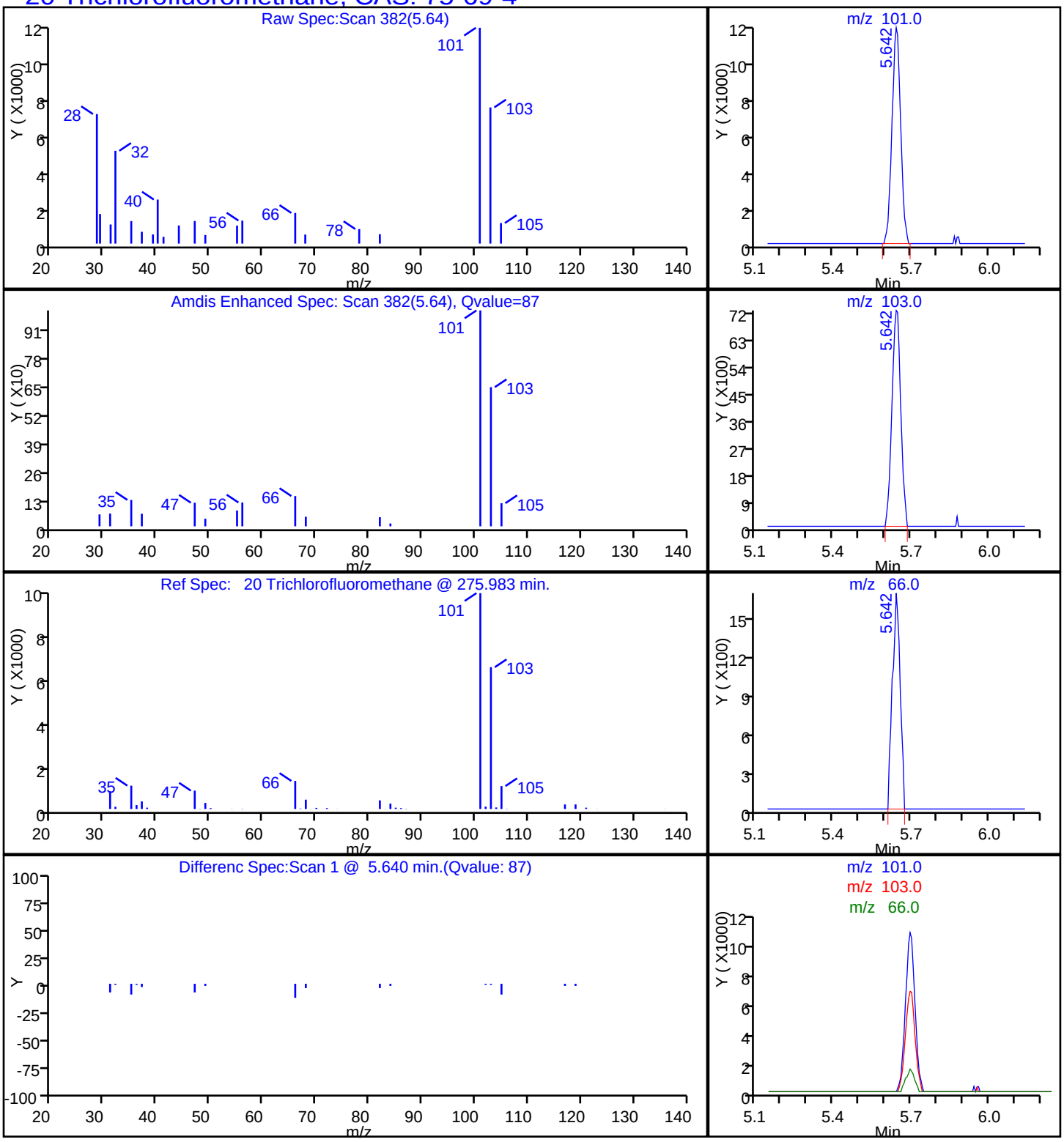
Report Date: 20-Mar-2014 14:57:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date:	19-Mar-2014 06:56:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-11	Lab Sample ID:	140-1063-11		
Client ID:	PCV-IA2-B11				
Operator ID:	403648	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:30

Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51

Soil Aliquot Vol: Dilution Factor: 1.64

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.21		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.14	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.16	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.6		1.0	0.20
591-78-6	2-Hexanone	100.20	0.088	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	1.4		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.33		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.31	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.56		0.50	0.045
67-64-1	Acetone	58.08	7.1		5.0	1.4
71-43-2	Benzene	78.11	0.40		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.037	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:30

Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51

Soil Aliquot Vol: Dilution Factor: 1.64

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.40		0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.10	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	110		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.21		0.20	0.068
142-82-5	Heptane	100.21	0.24	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.42	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.79		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.31		0.20	0.061
115-07-1	Propene	42.08	1.7	cn	0.50	0.077
100-42-5	Styrene	104.15	0.12	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.20		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.3		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:30

Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51

Soil Aliquot Vol: Dilution Factor: 1.64

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:30

Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51

Soil Aliquot Vol: Dilution Factor: 1.64

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.86	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.77	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	4.6		2.9	0.59
591-78-6	2-Hexanone	100.20	0.36	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	4.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.2		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.5	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.3		2.0	0.18
67-64-1	Acetone	58.08	17		12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.12	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

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Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	2.0		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.36	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	210		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.93		0.87	0.30
142-82-5	Heptane	100.21	0.97	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.5	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	22		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	3.0	cn	0.86	0.13
100-42-5	Styrene	104.15	0.52	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.4		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12

Matrix: Air Lab File ID: JC18P214.D

Analysis Method: TO-15 Date Collected: 03/12/2014 16:30

Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51

Soil Aliquot Vol: Dilution Factor: 1.64

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D
Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12
Client ID: PCV-IA3-B11
Sample Type: Client
Inject. Date: 19-Mar-2014 07:51:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.6400
Sample Info: 140-1063-a-12@1.64
Misc. Info.: J031814,TO15,,140-0000527-020
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:57:42 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:07:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	89	363113	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1701606	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1409144	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	982304	3.94	
7 Propene	41	3.980	3.971	0.009	82	76821	0.6900	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	63232	0.1758	
9 Chloromethane	52	4.228	4.229	-0.001	98	9623	0.2355	
17 Ethanol	31	5.121	5.116	0.005	94	1271073	43.6	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	85591	0.5550	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	85	26451	0.0837	
23 Acetone	58	5.761	5.767	-0.006	92	147107	2.85	
24 Isopropyl alcohol	45	5.852	5.848	0.004	97	485743	3.56	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.580	0.004	68	5707	0.0261	
31 Methylene Chloride	84	6.751	6.757	-0.006	92	19966	0.2055	
33 Carbon disulfide	76	6.934	6.935	-0.001	78	5078	0.0149	
35 2-Methylpentane	43	7.622	7.623	-0.001	93	37220	0.1328	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	98	21539	0.6266	
40 Hexane	56	8.634	8.635	-0.001	71	16324	0.1672	
43 Chloroform	83	9.392	9.393	-0.001	71	33992	0.1607	
48 Benzene	78	11.017	11.023	-0.006	95	47021	0.1611	
49 Cyclohexane	69	11.033	11.034	-0.001	45	2416	0.0419	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	87	6624	0.0275	
53 Isooctane	57	11.759	11.760	-0.001	83	32699	0.0656	
54 n-Heptane	71	12.114	12.120	-0.006	83	9807	0.0950	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	94	40073	0.2247	
65 Toluene	91	14.250	14.256	-0.006	93	138358	0.5293	
69 2-Hexanone	58	14.685	14.681	0.004	54	3003	0.0351	
73 Tetrachloroethene	129	15.379	15.386	-0.007	83	9953	0.0817	
76 Ethylbenzene	91	16.525	16.532	-0.007	83	24615	0.0852	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	73855	0.3170	
80 Styrene	104	17.144	17.150	-0.006	67	7767	0.0485	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.208	17.215	-0.007	89	29384	0.1244	
88 4-Ethyltoluene	105	18.462	18.447	0.015	54	38740	0.1234	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	22995	0.0840	
97 1,4-Dichlorobenzene	146	19.290	19.297	-0.007	79	9607	0.0574	

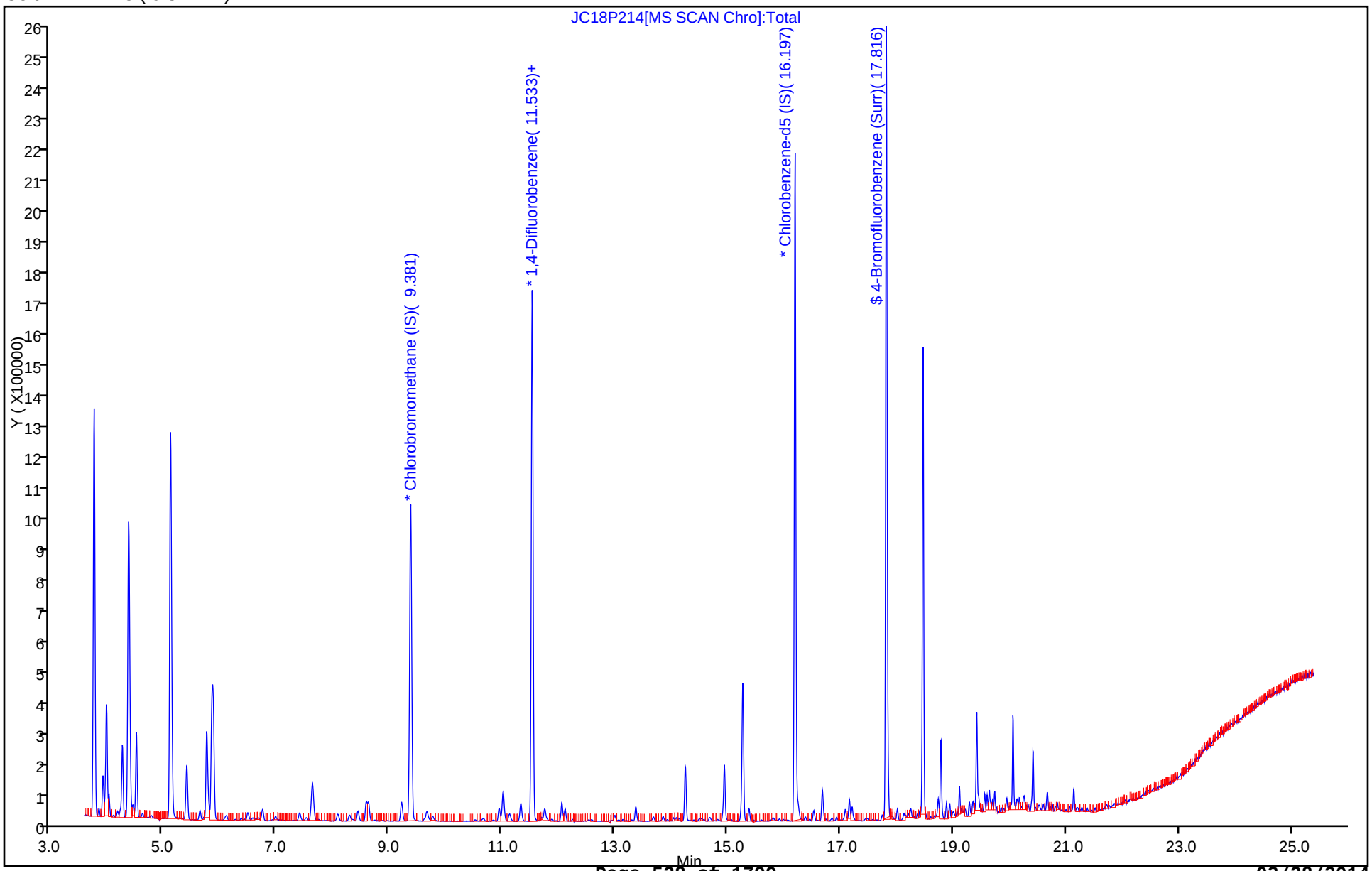
Report Date: 20-Mar-2014 14:57:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12	Worklist Smp#:	20
Client ID:	PCV-IA3-B11				
Purge Vol:	500.000 mL	Dil. Factor:	1.6400	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



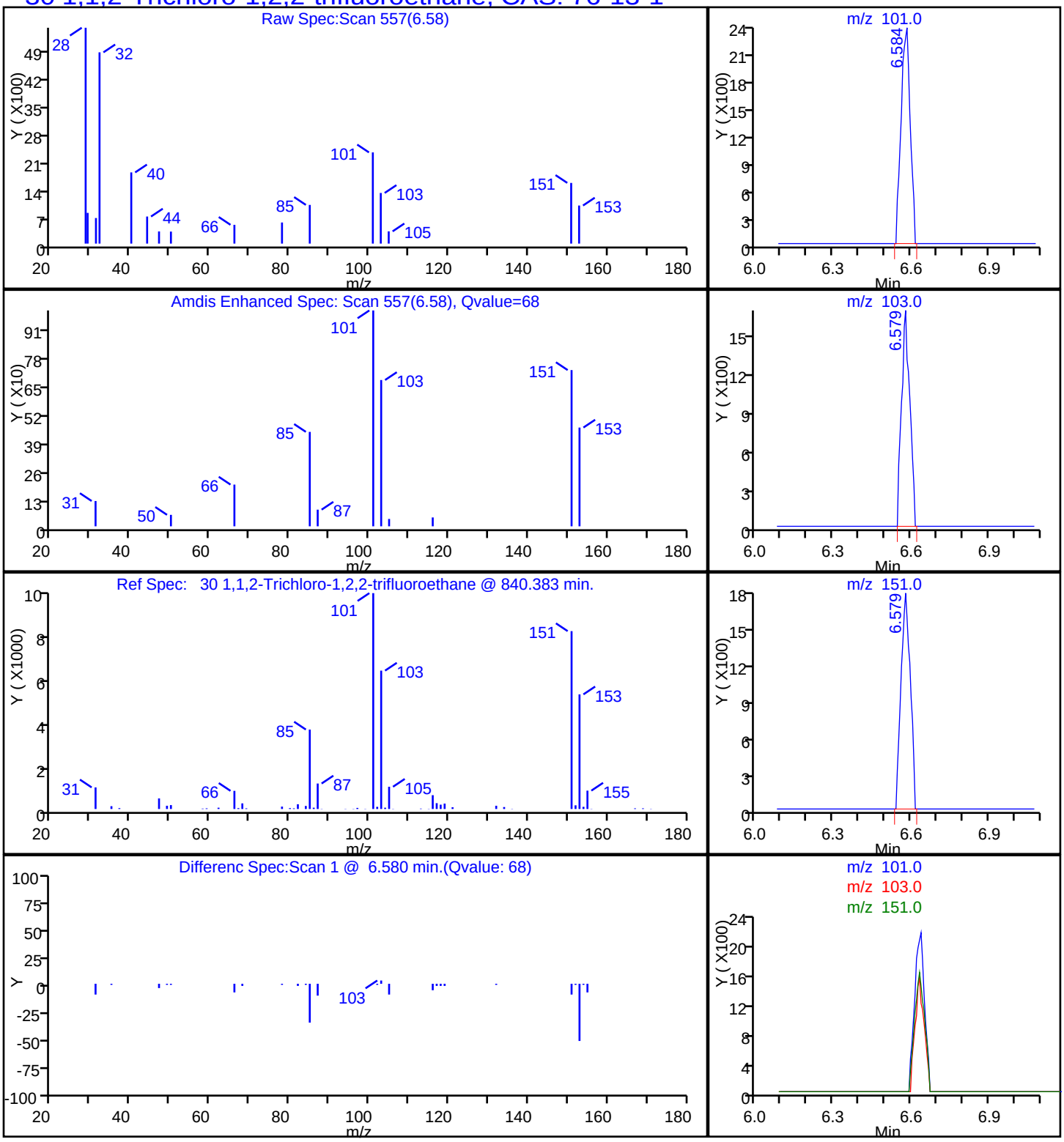
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



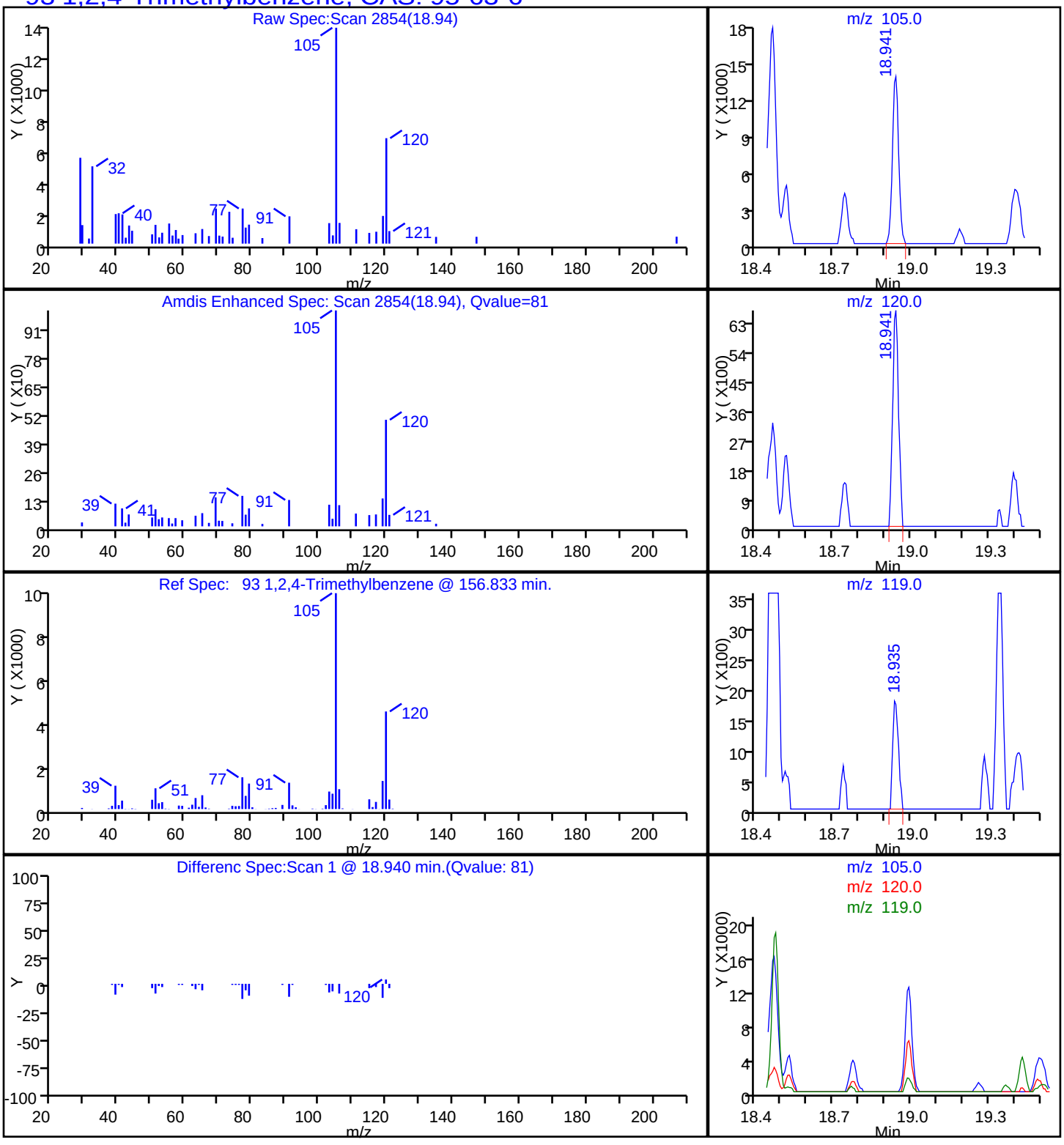
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

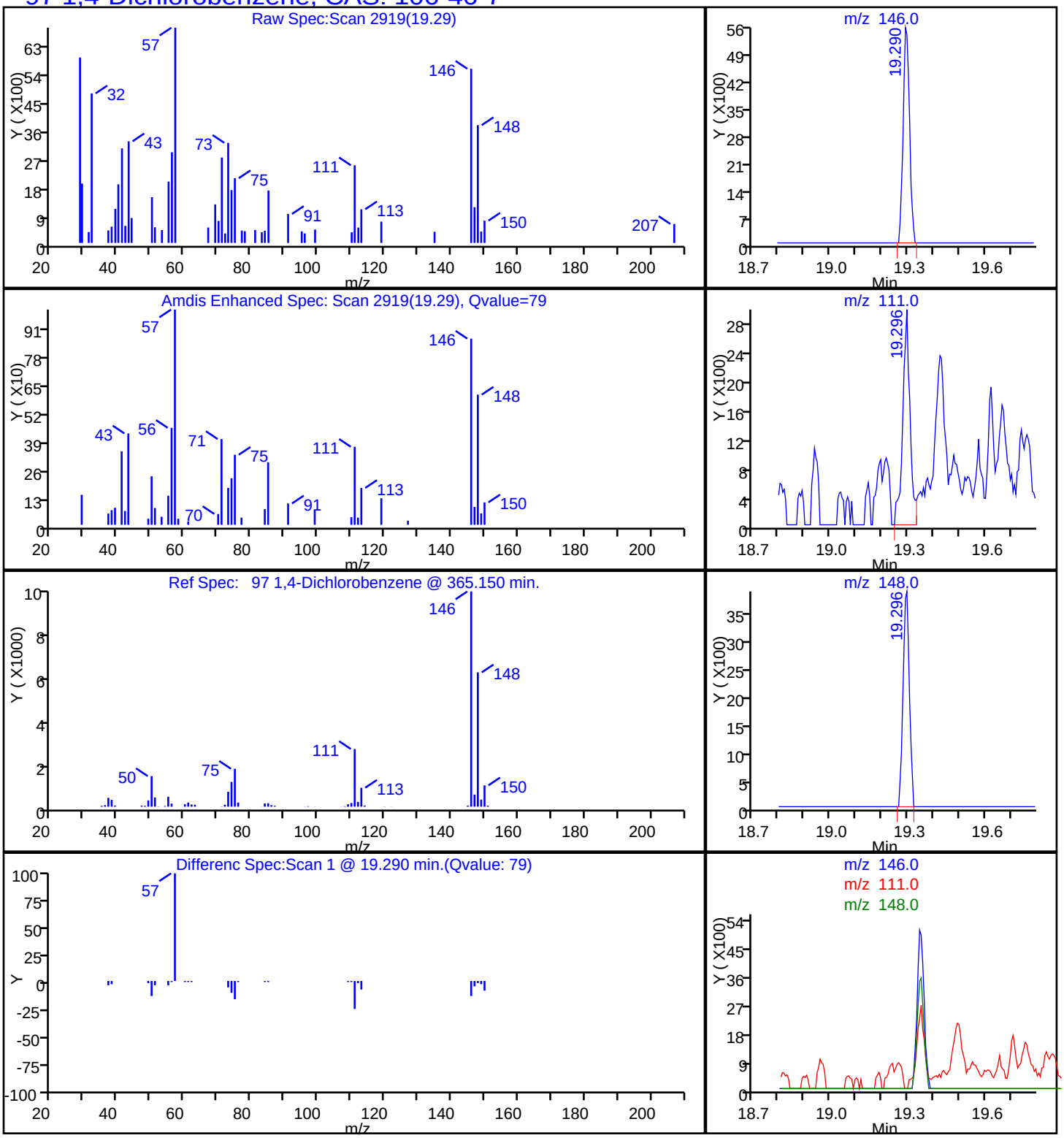
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

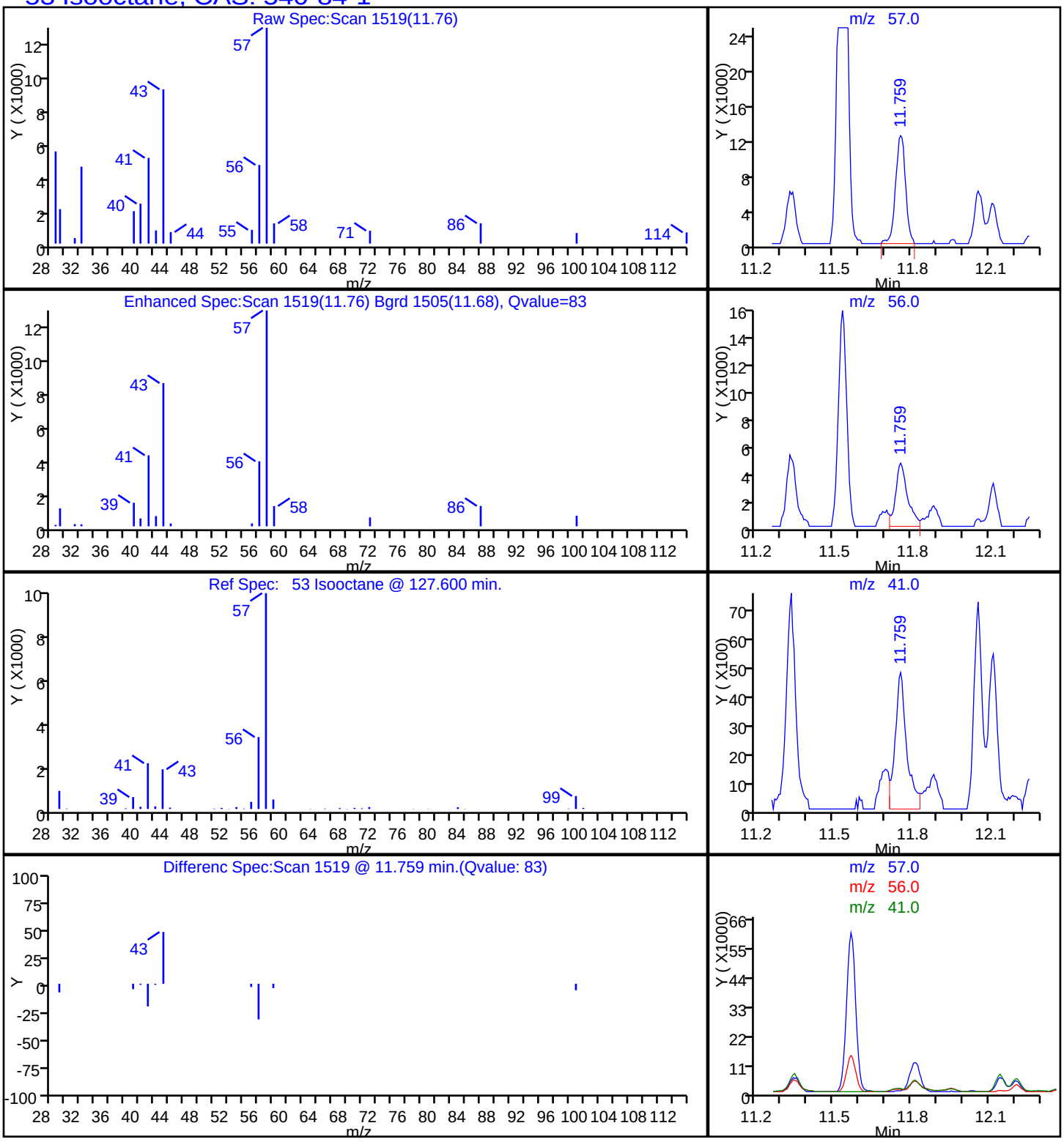
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

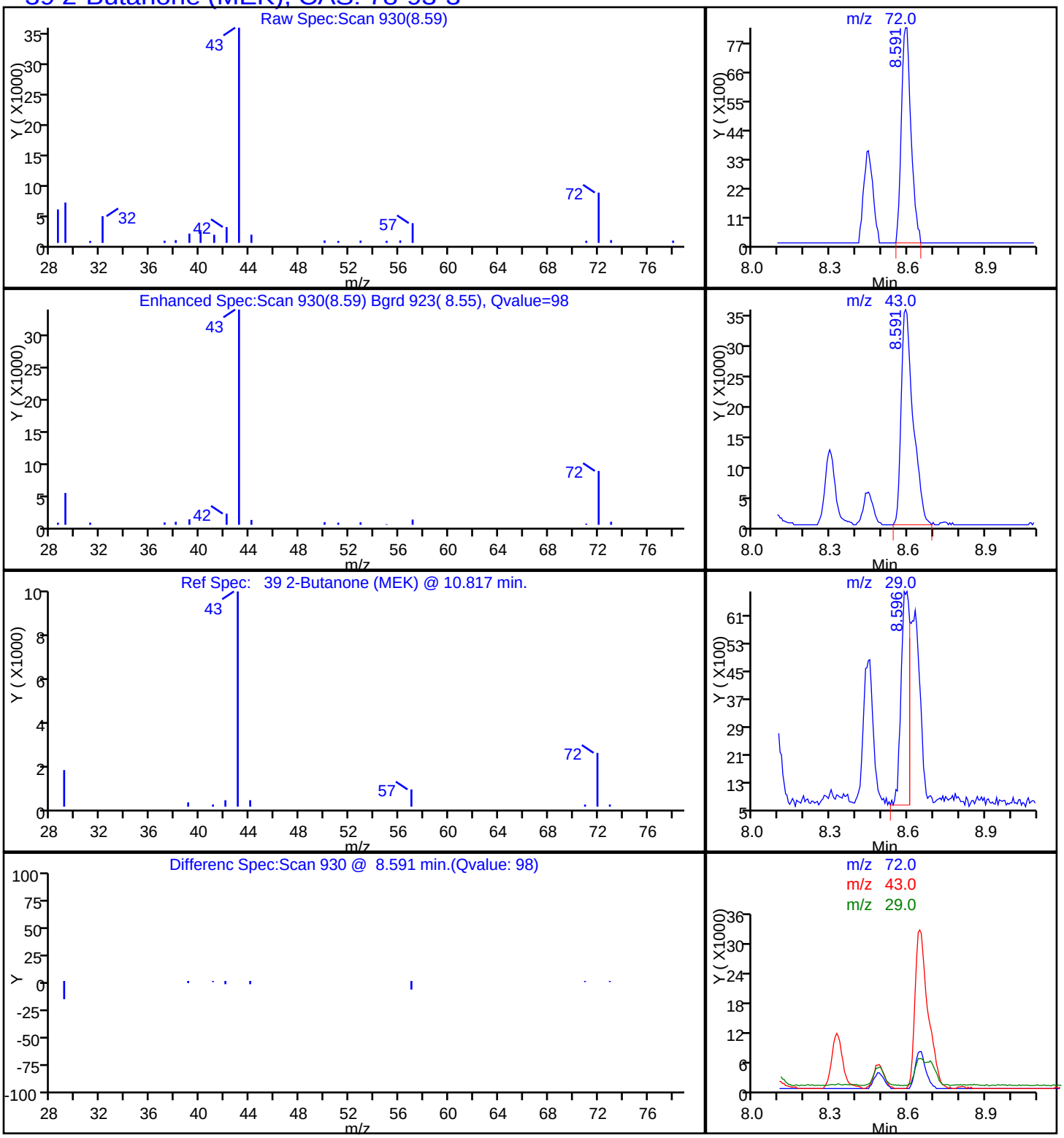
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



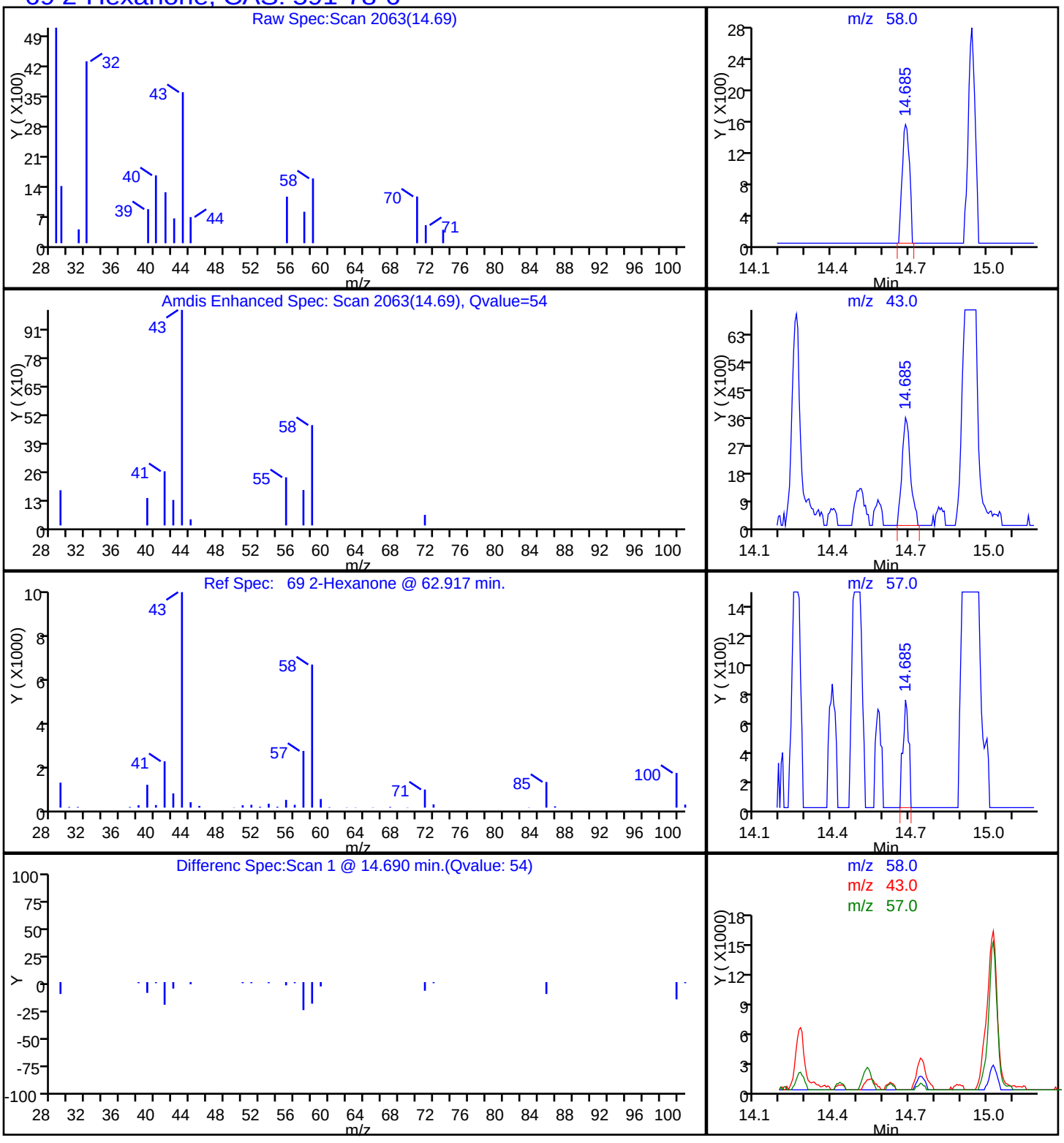
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

69 2-Hexanone, CAS: 591-78-6



Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

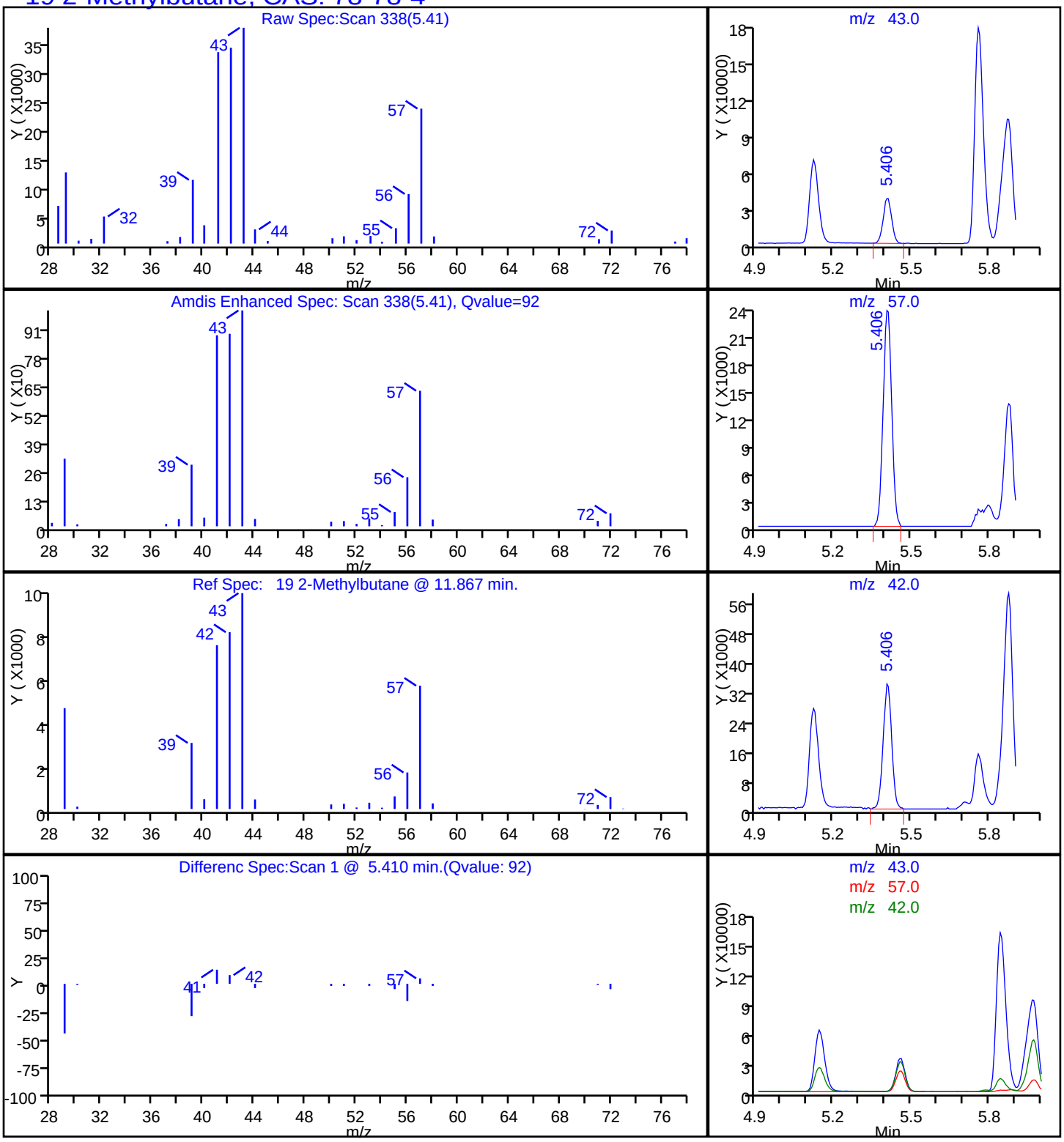
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



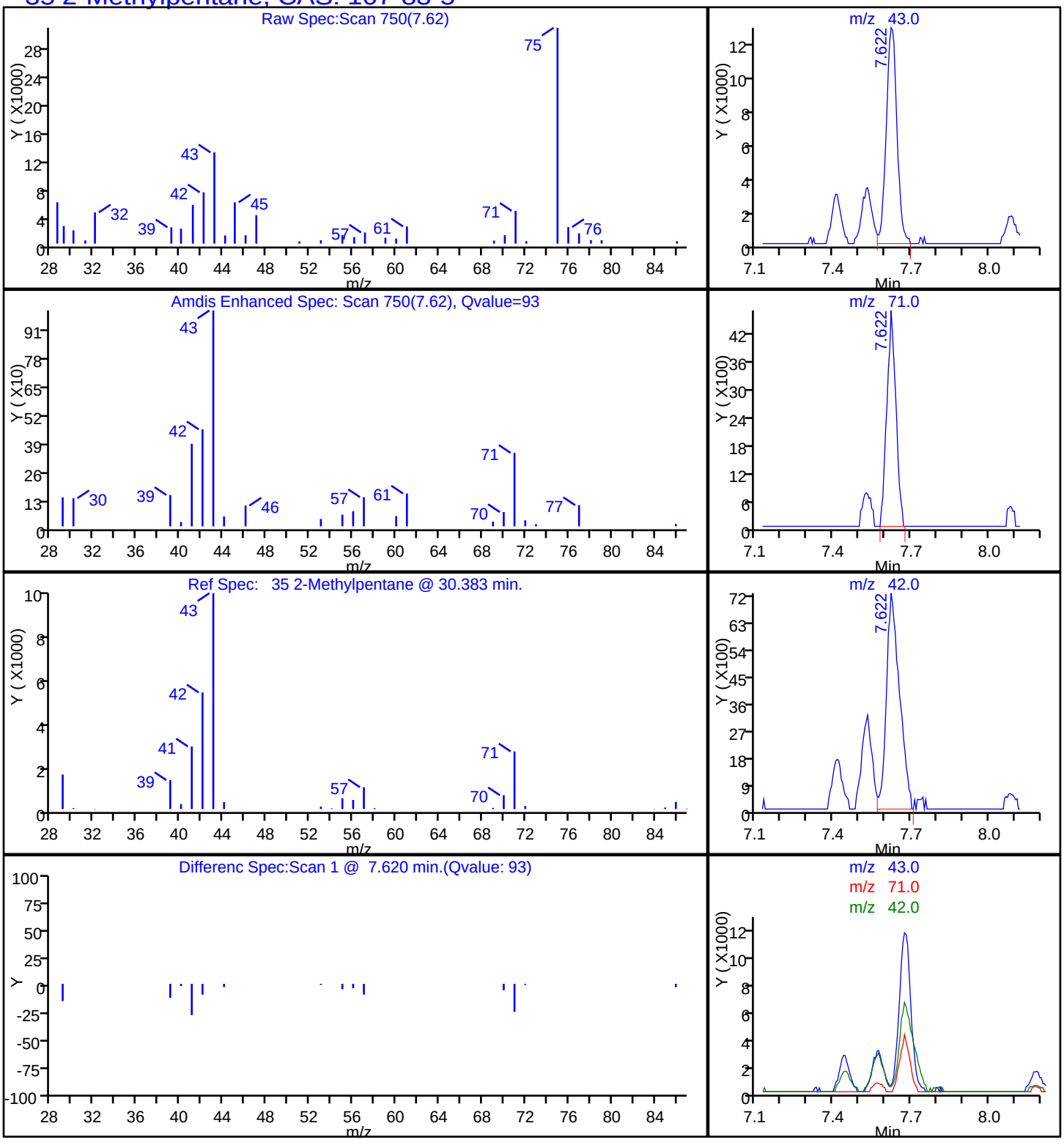
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5

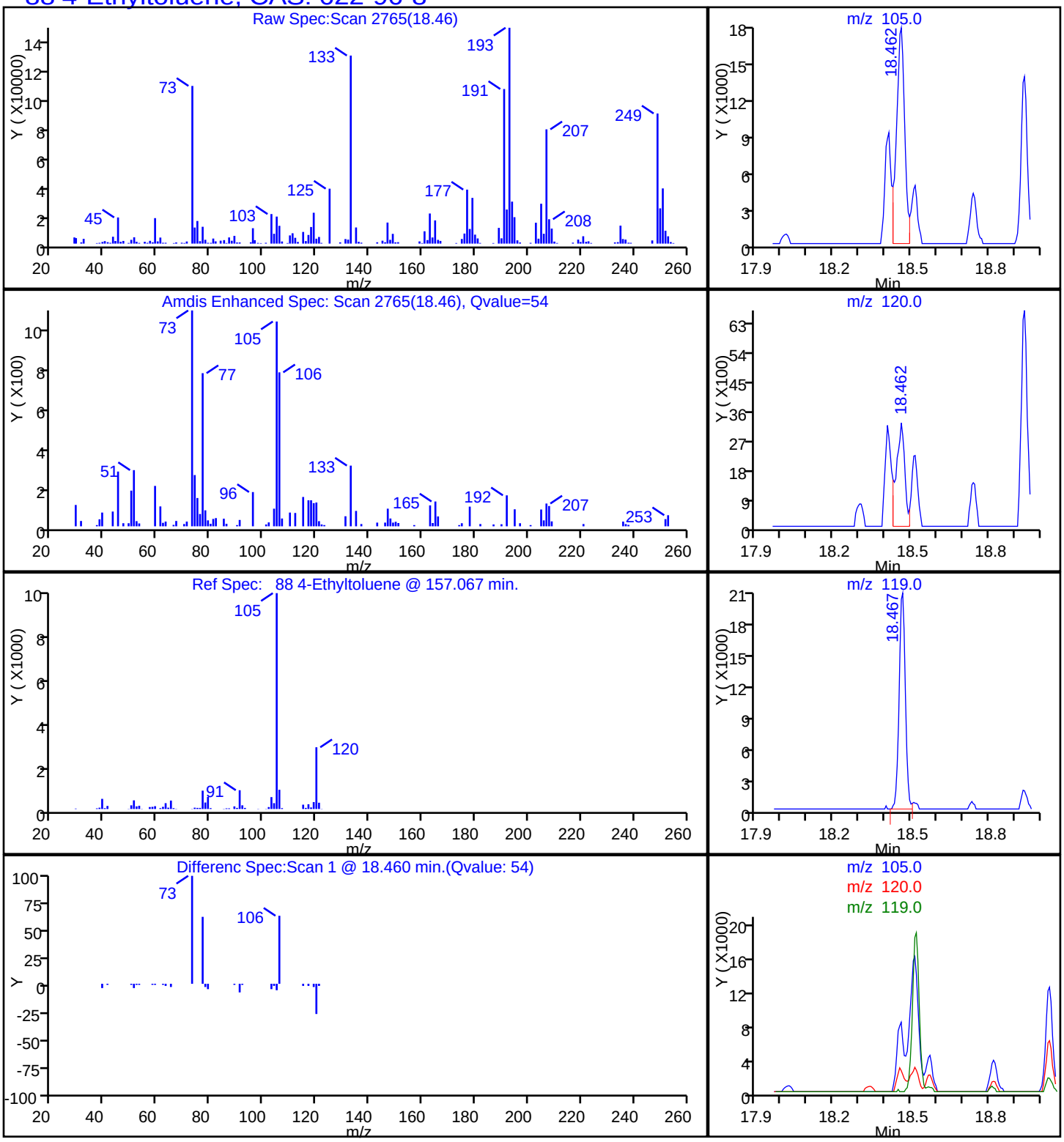


Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D				
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



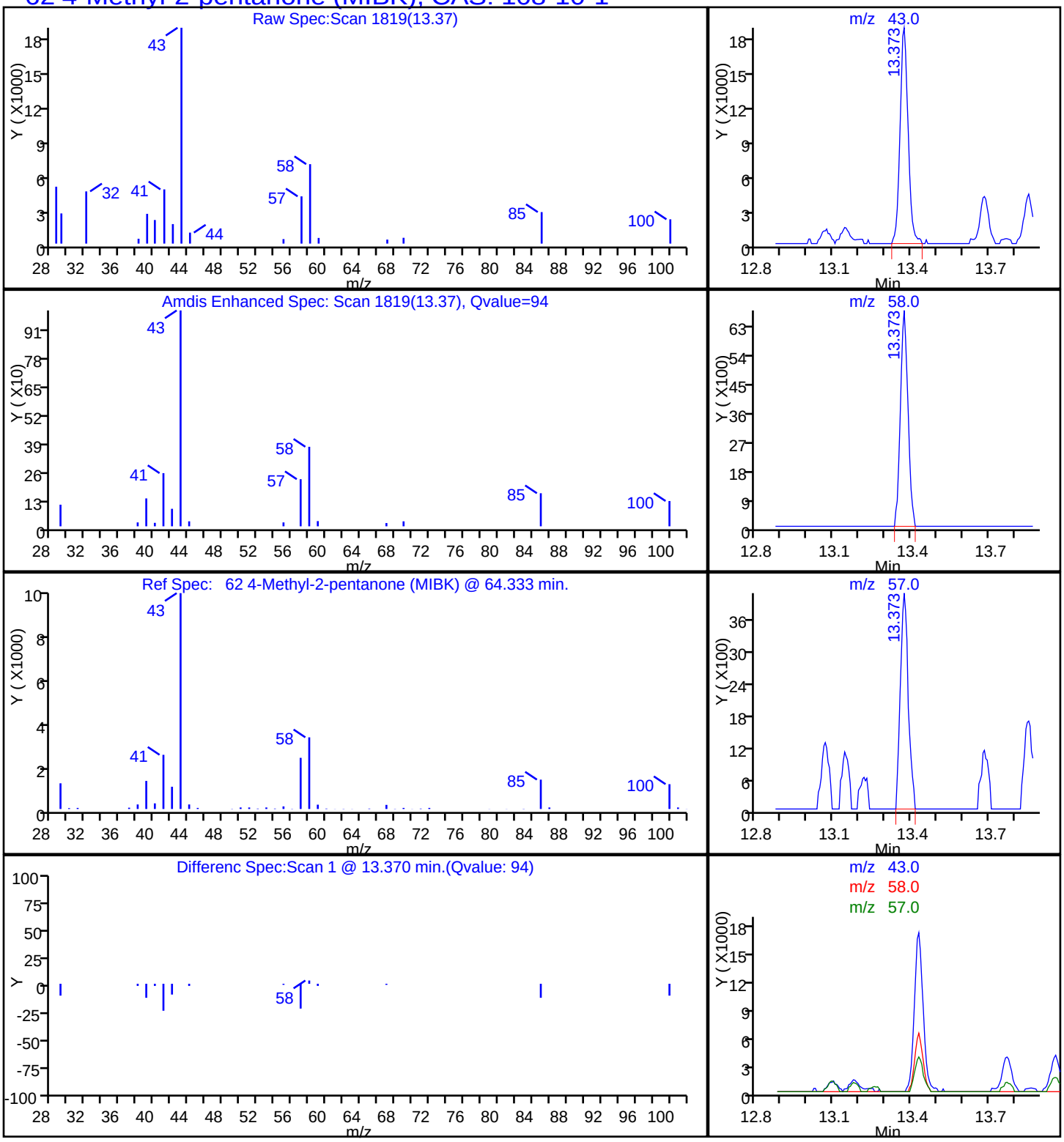
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



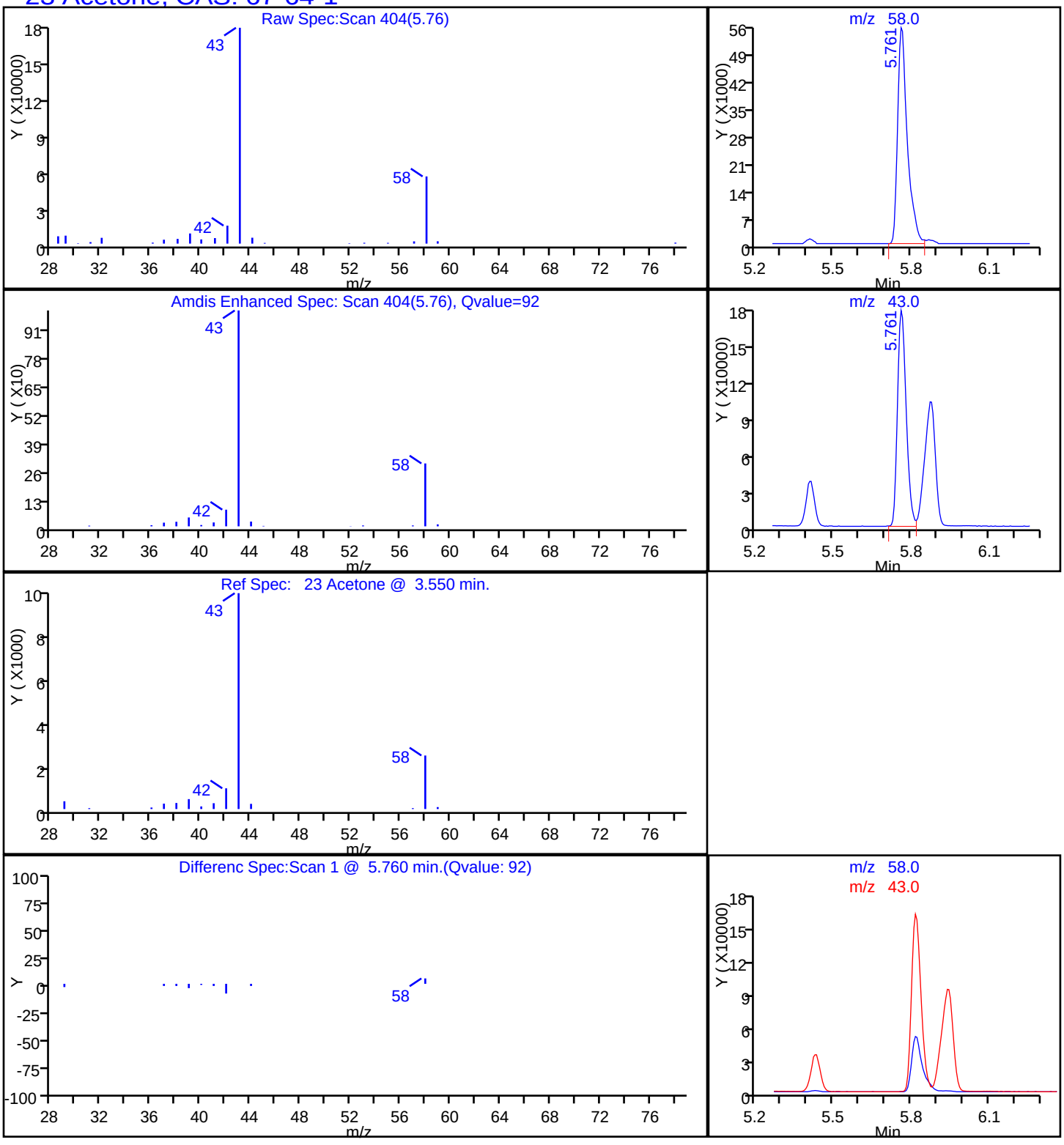
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

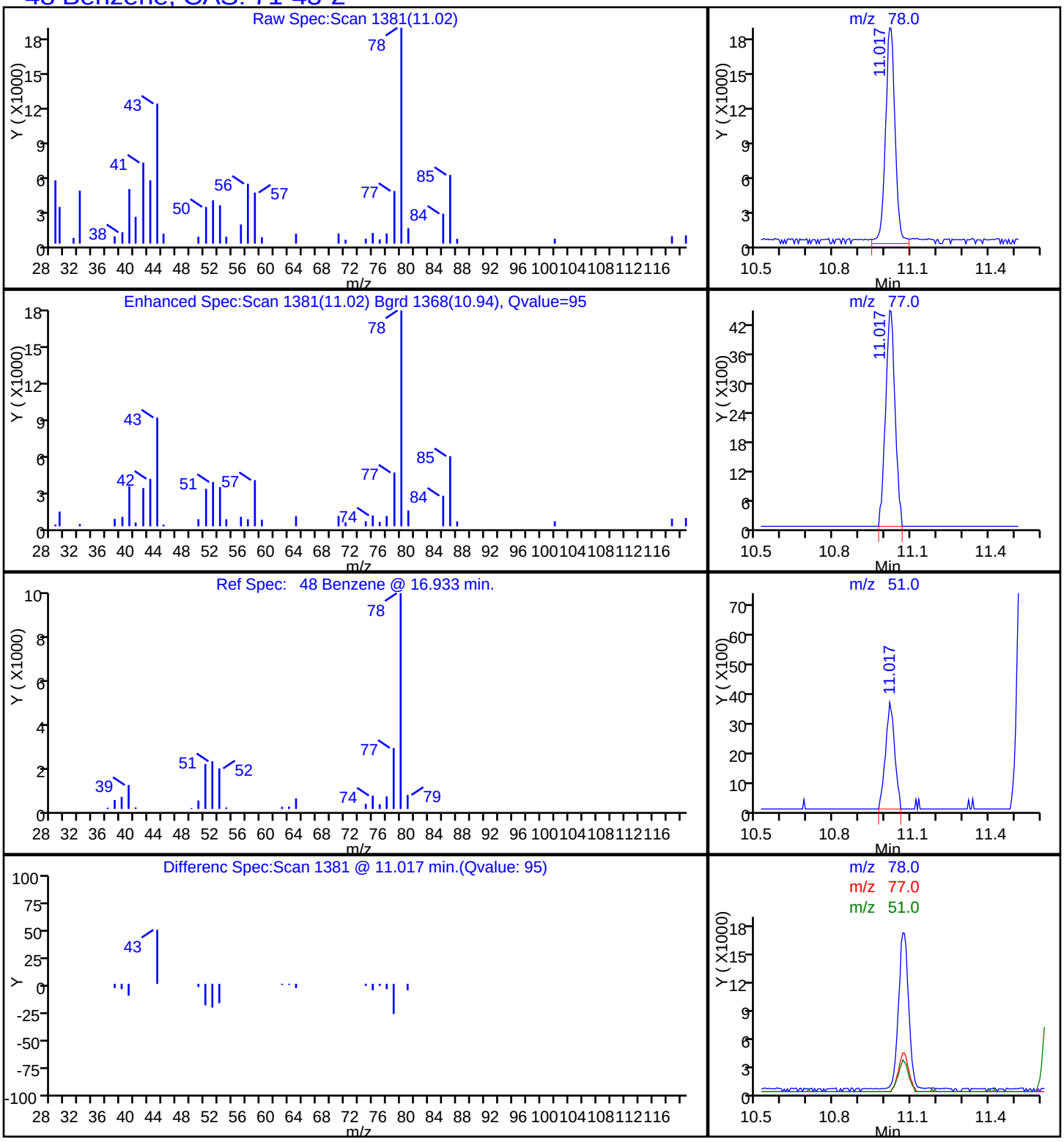
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



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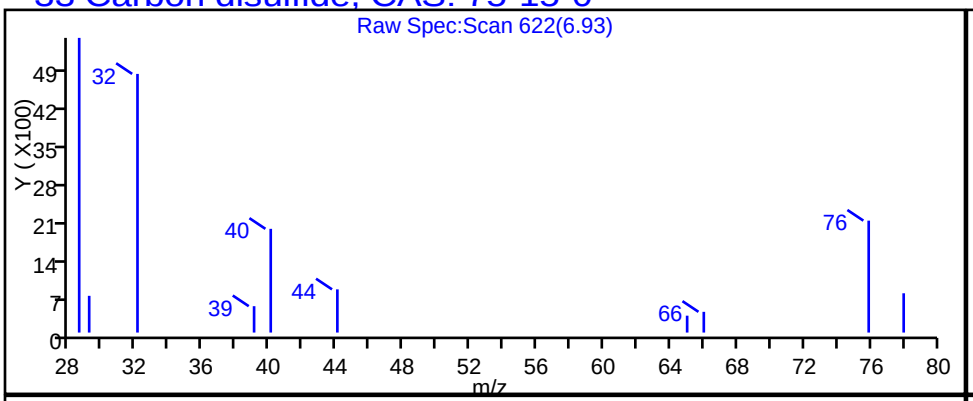
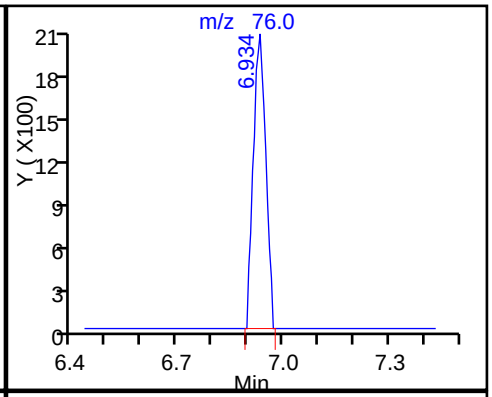
TestAmerica Knoxville

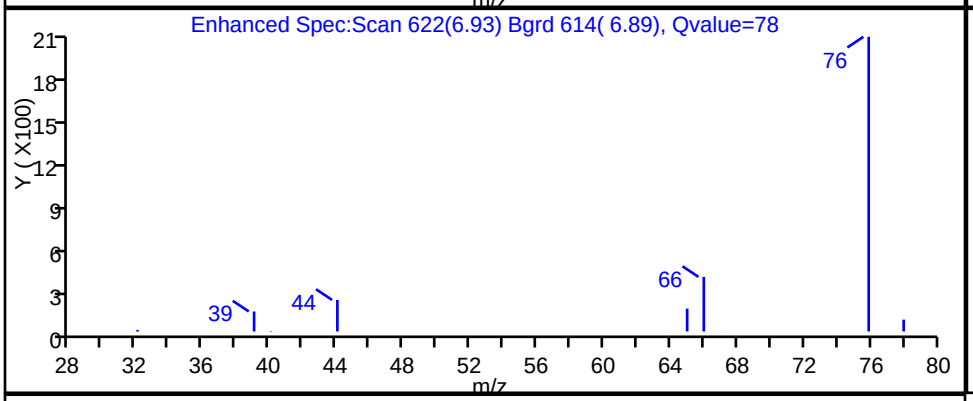
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

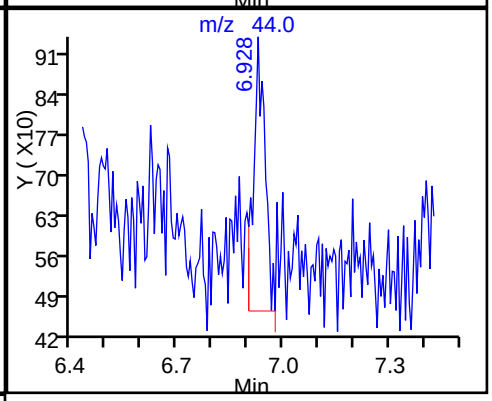
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

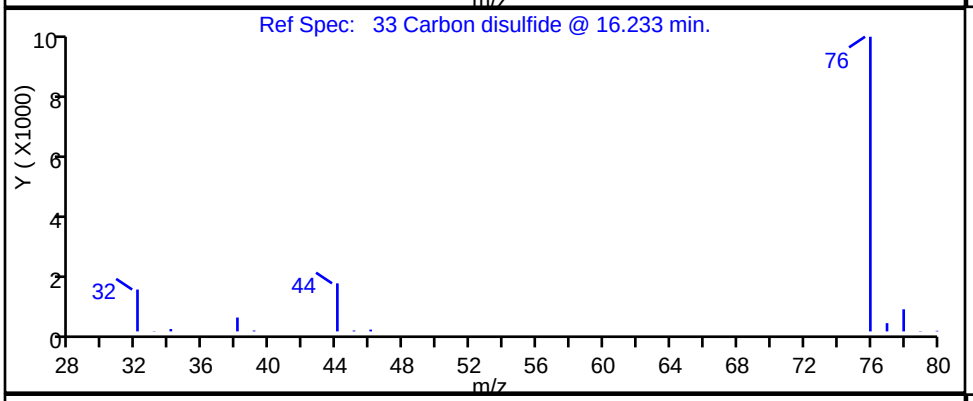
33 Carbon disulfide, CAS: 75-15-0

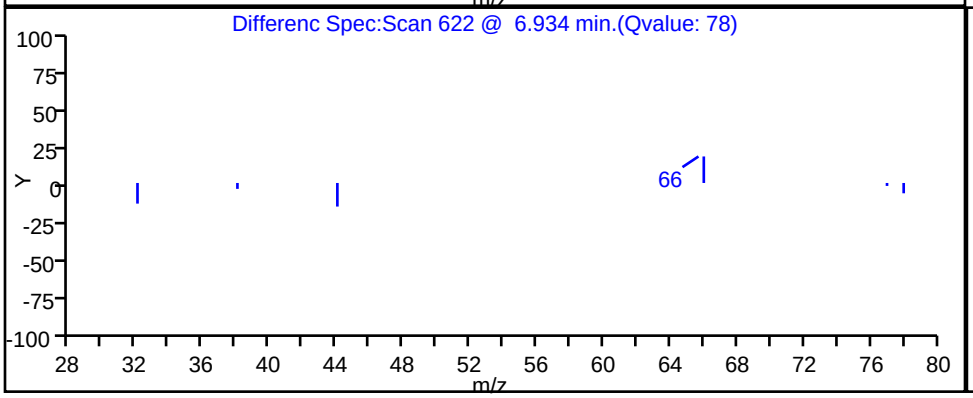


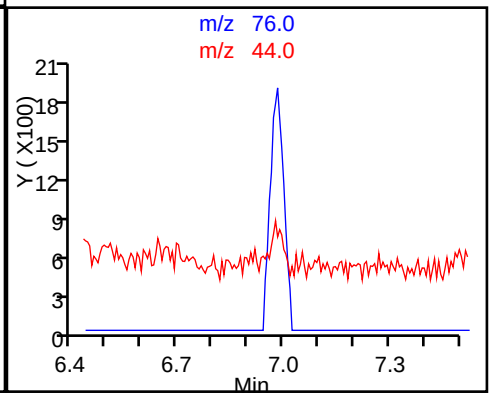












Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

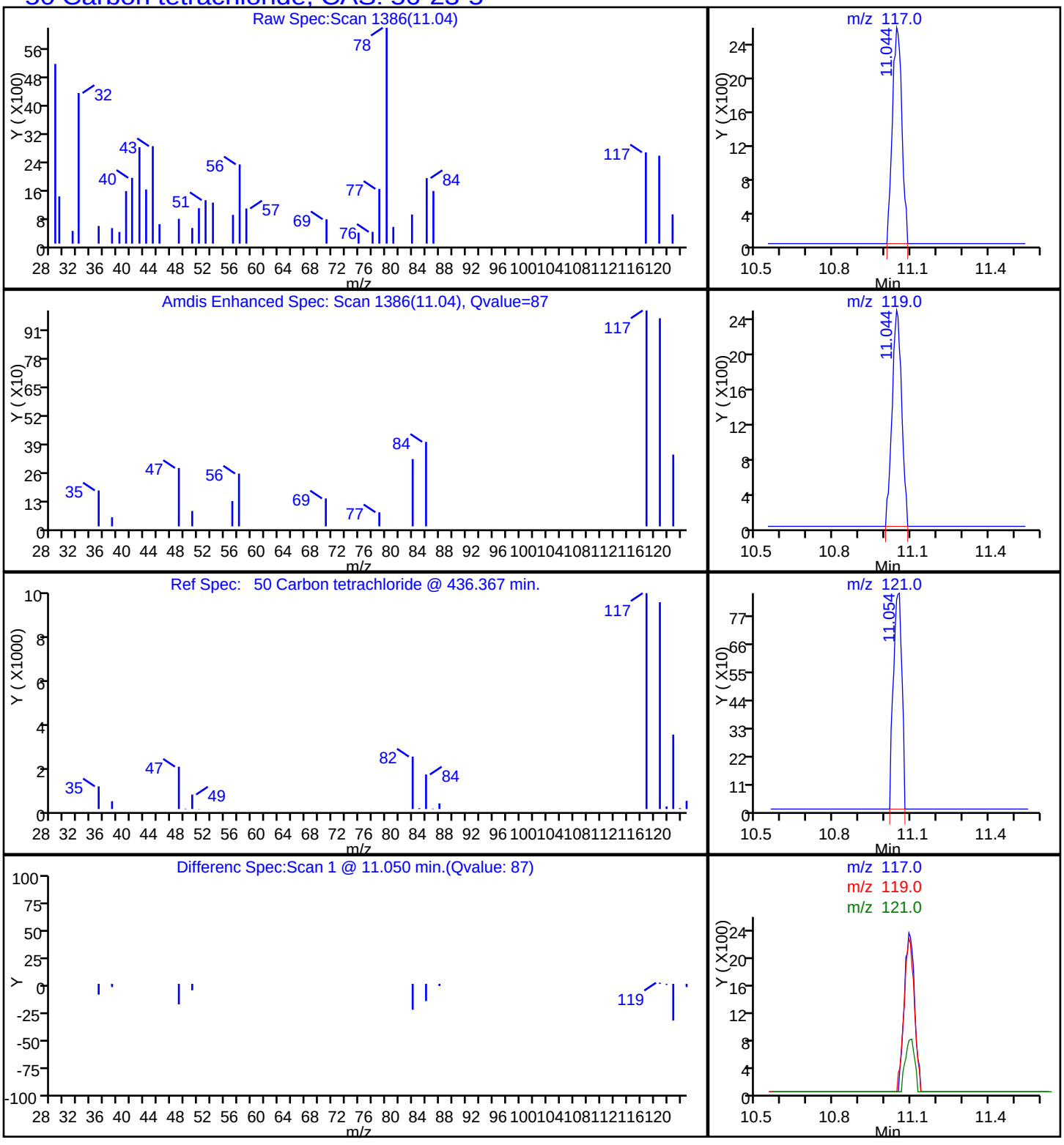
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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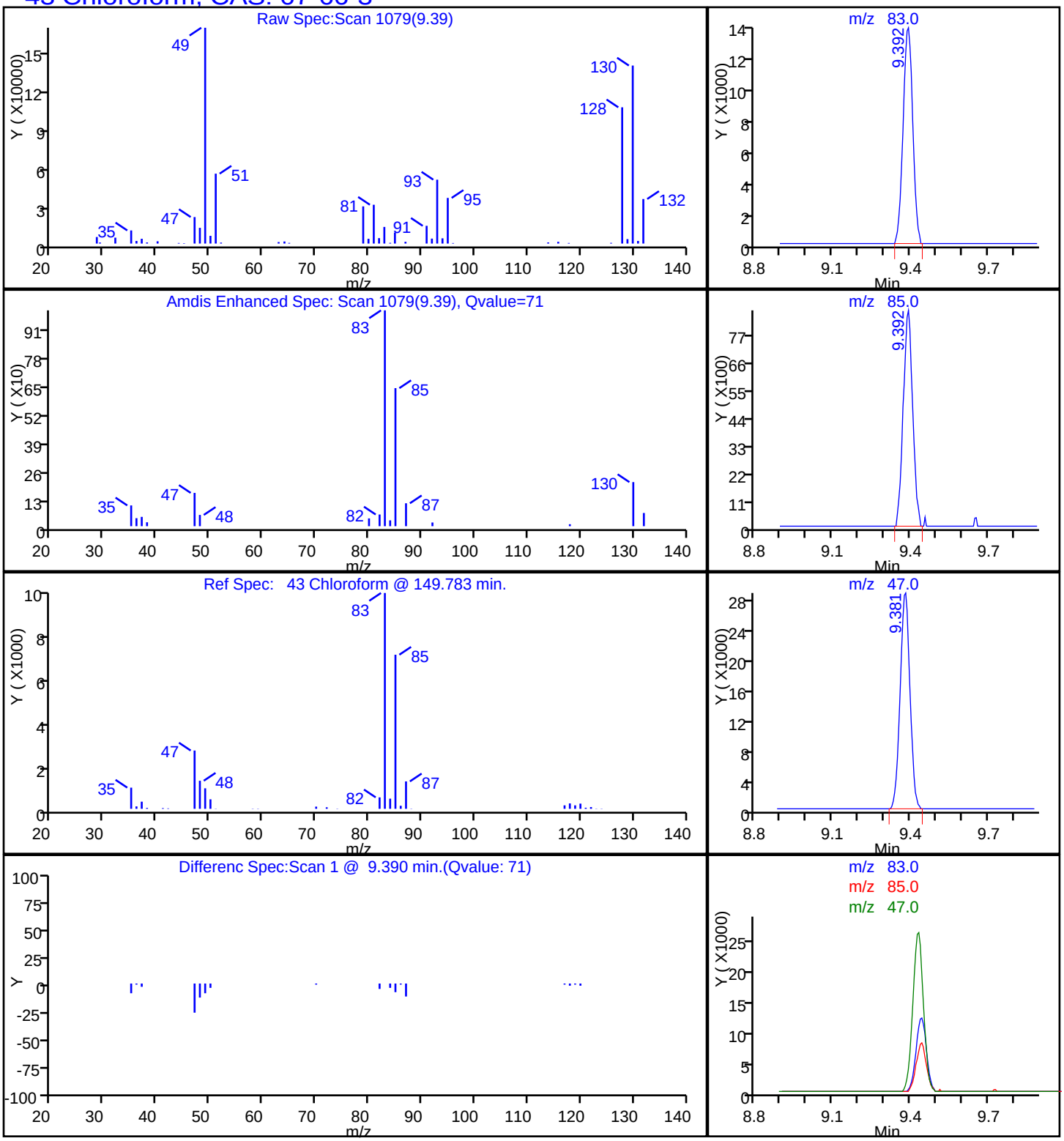
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D				
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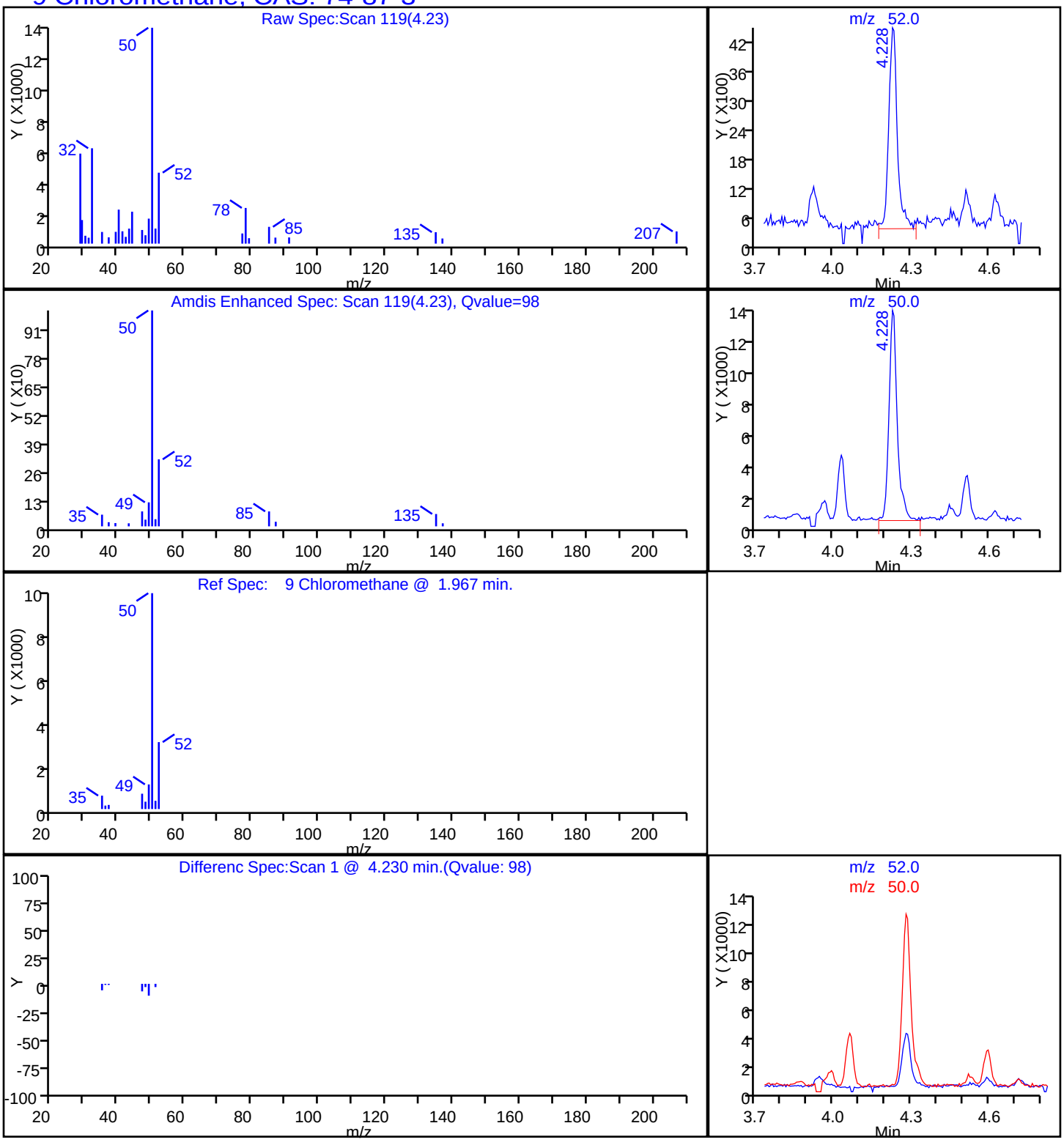
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

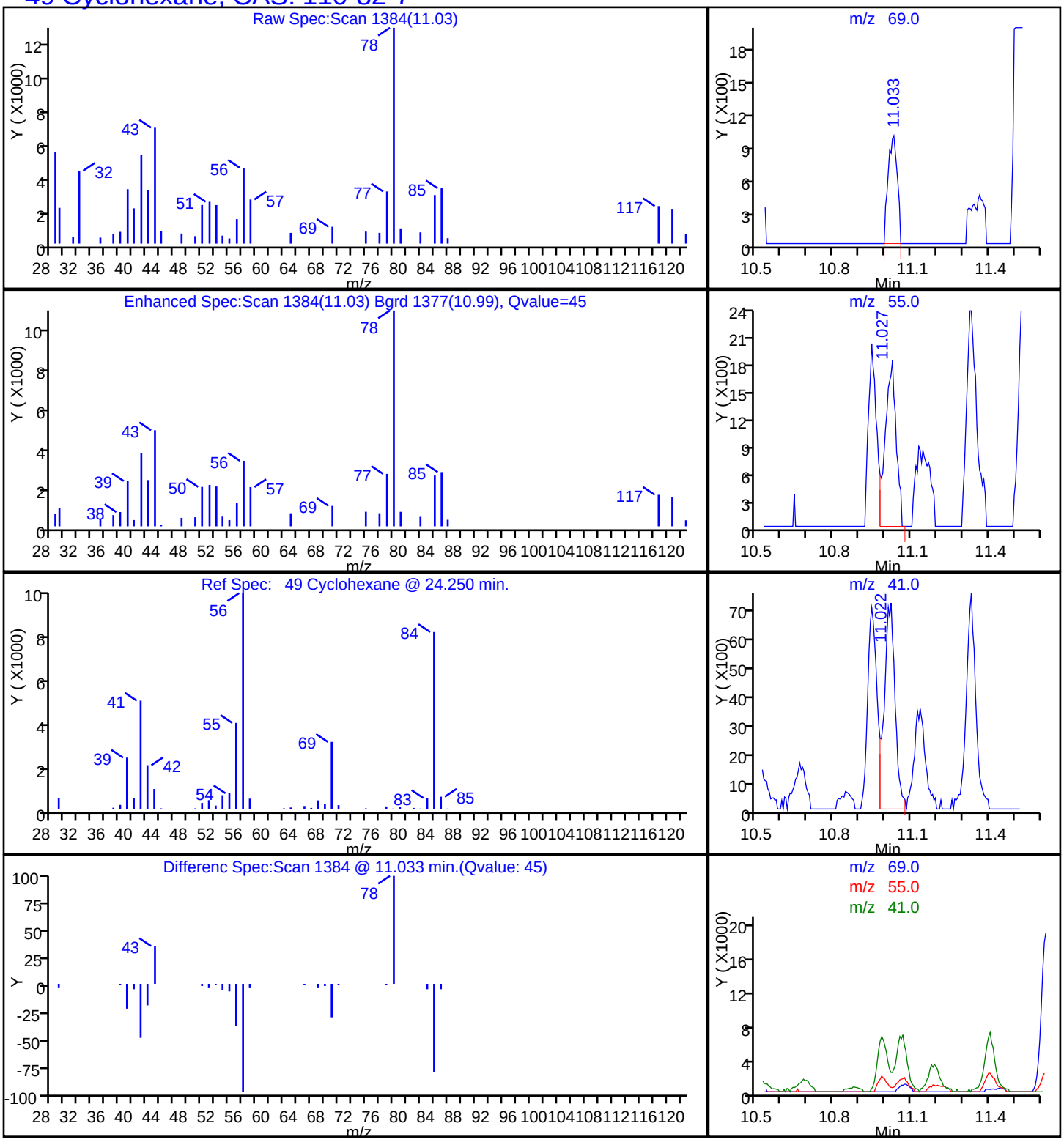
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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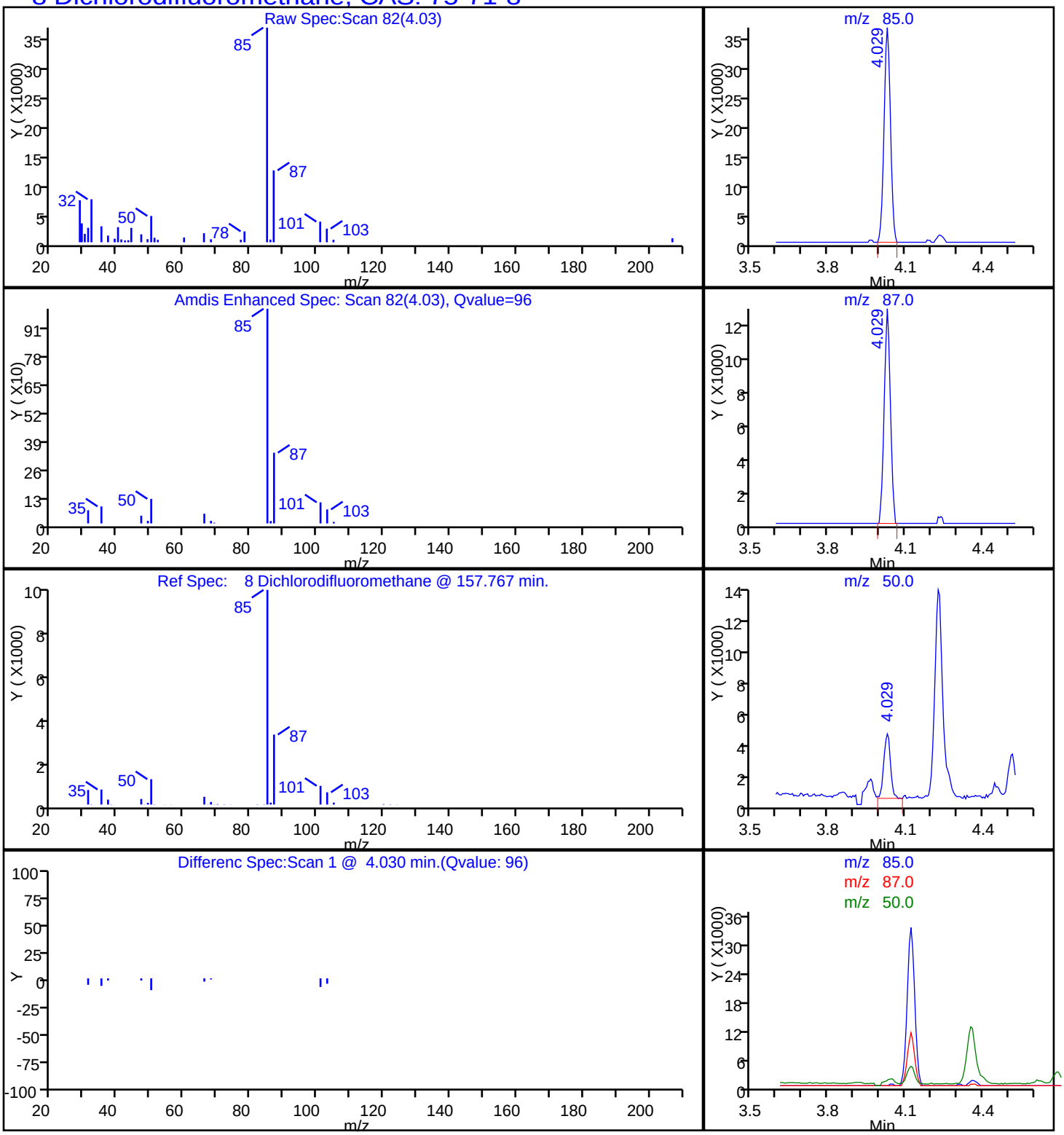
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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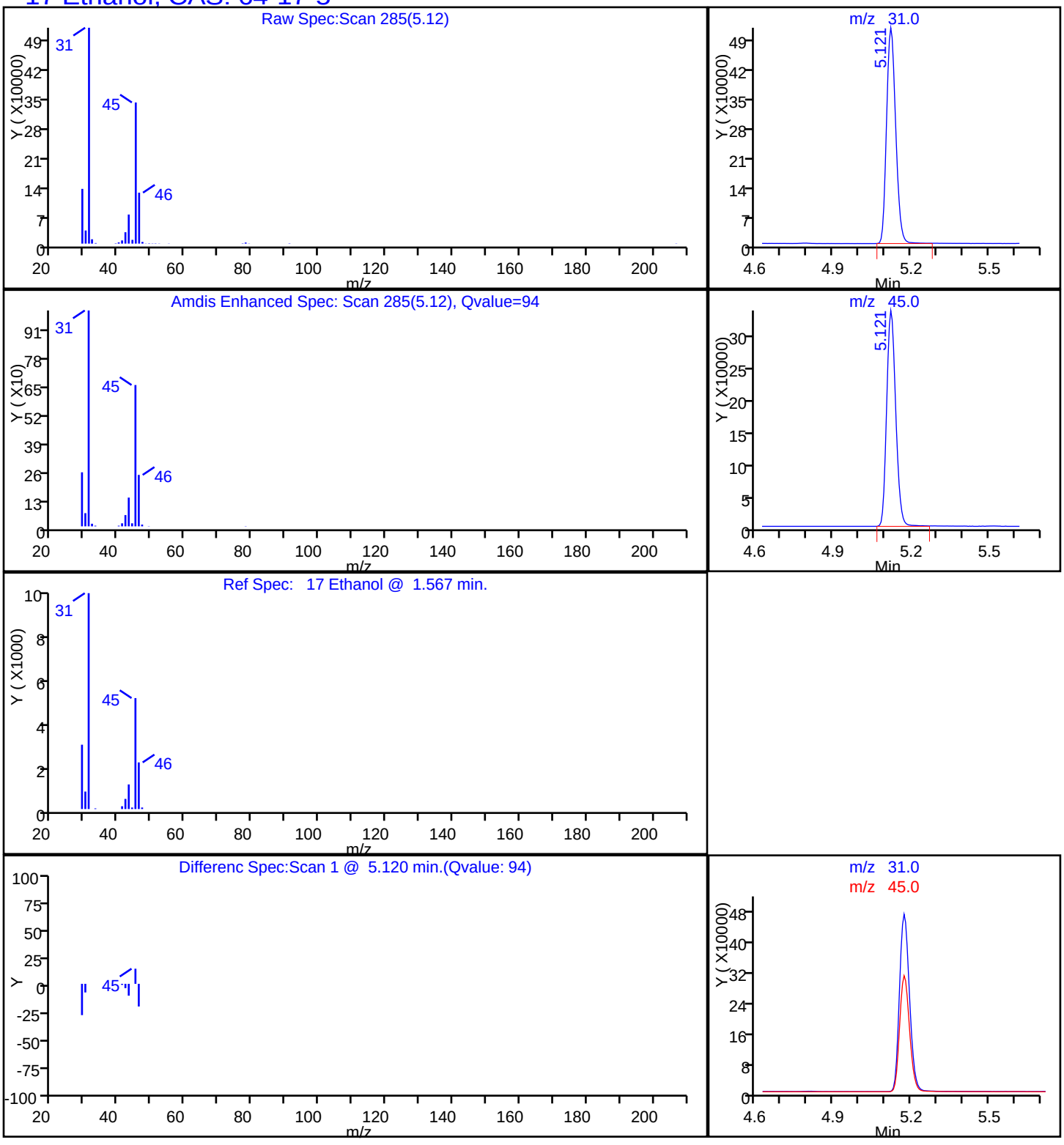
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D				
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



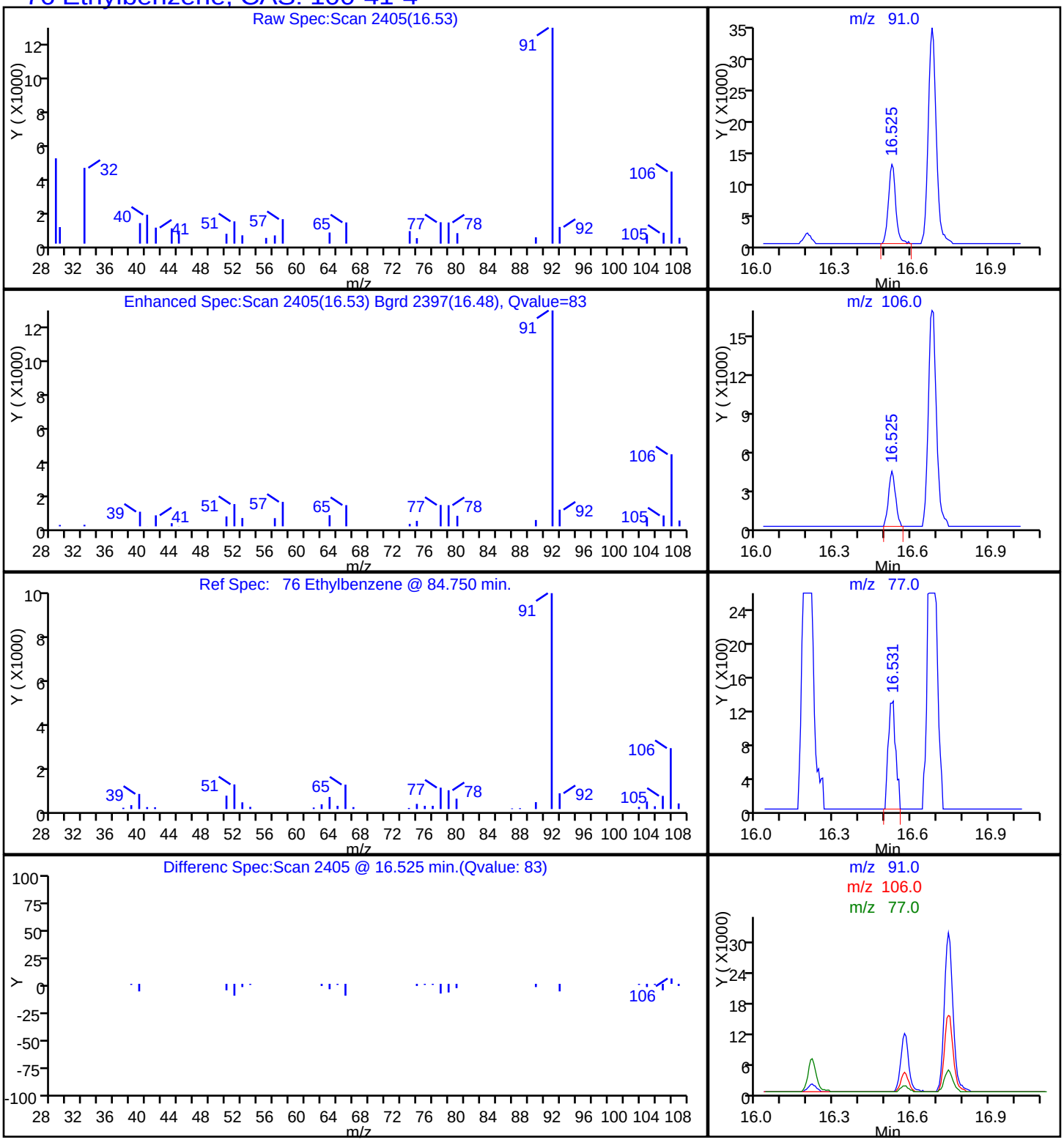
Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
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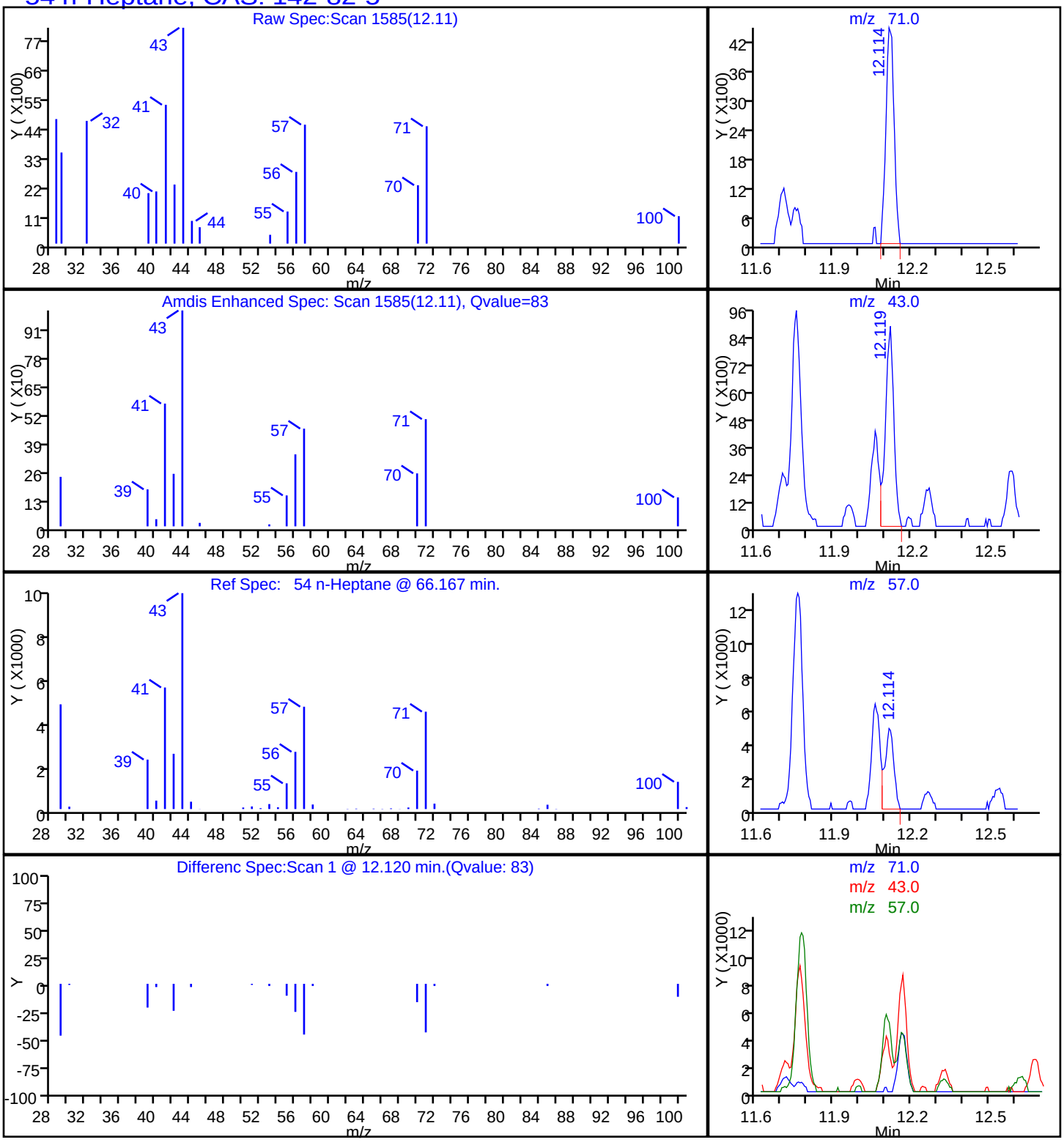
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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TestAmerica Knoxville

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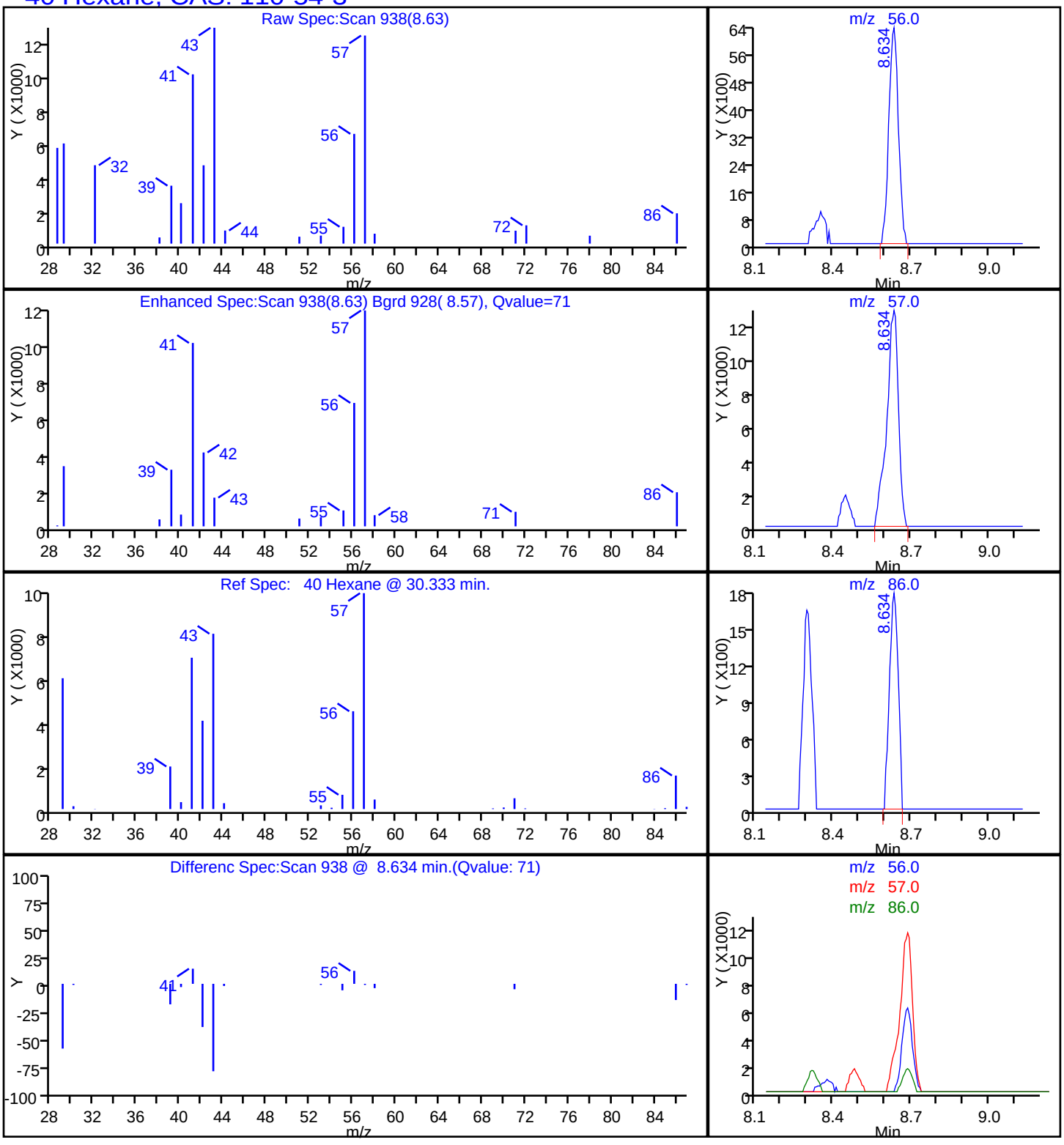
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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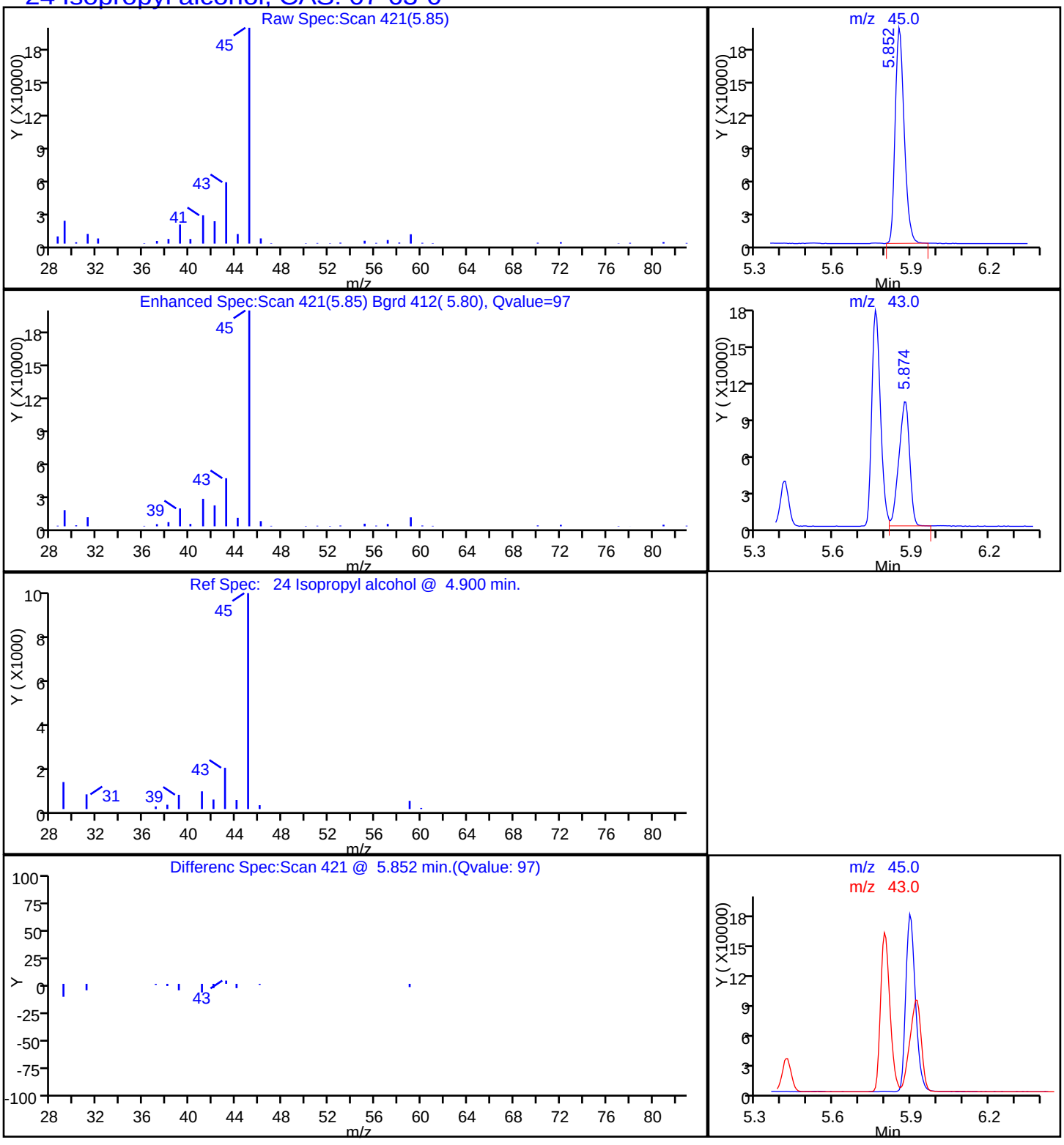
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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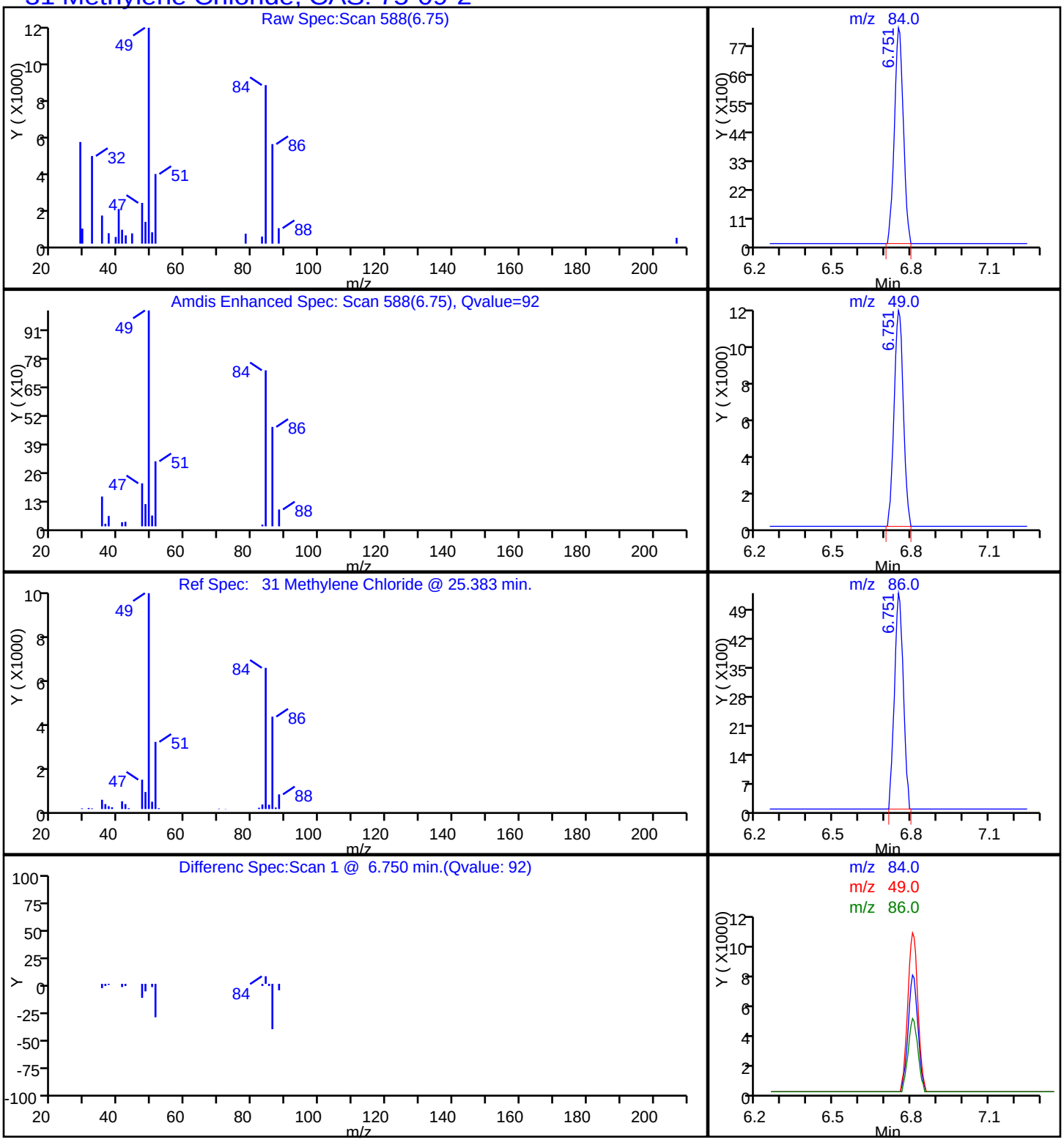
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

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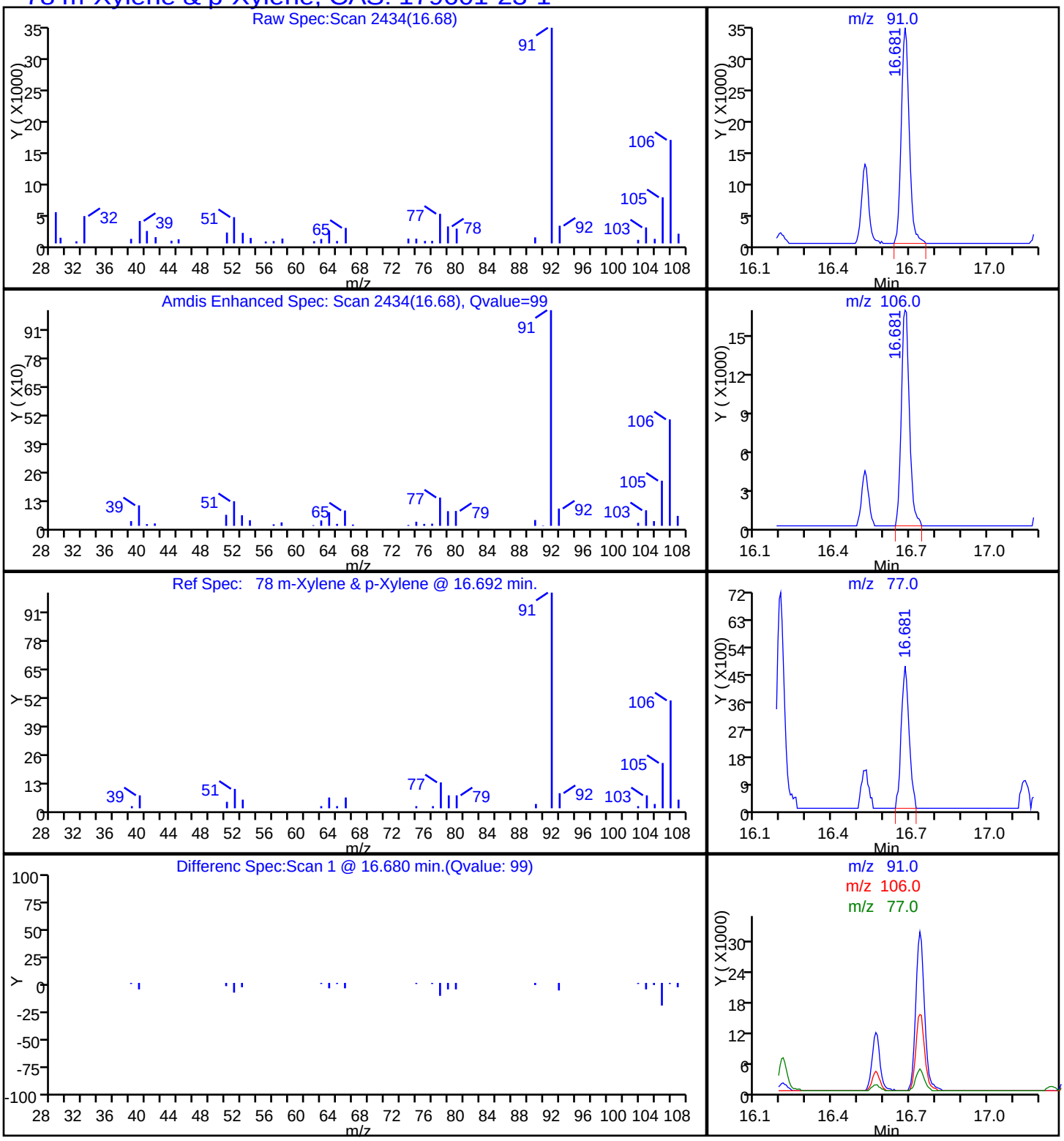
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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TestAmerica Knoxville

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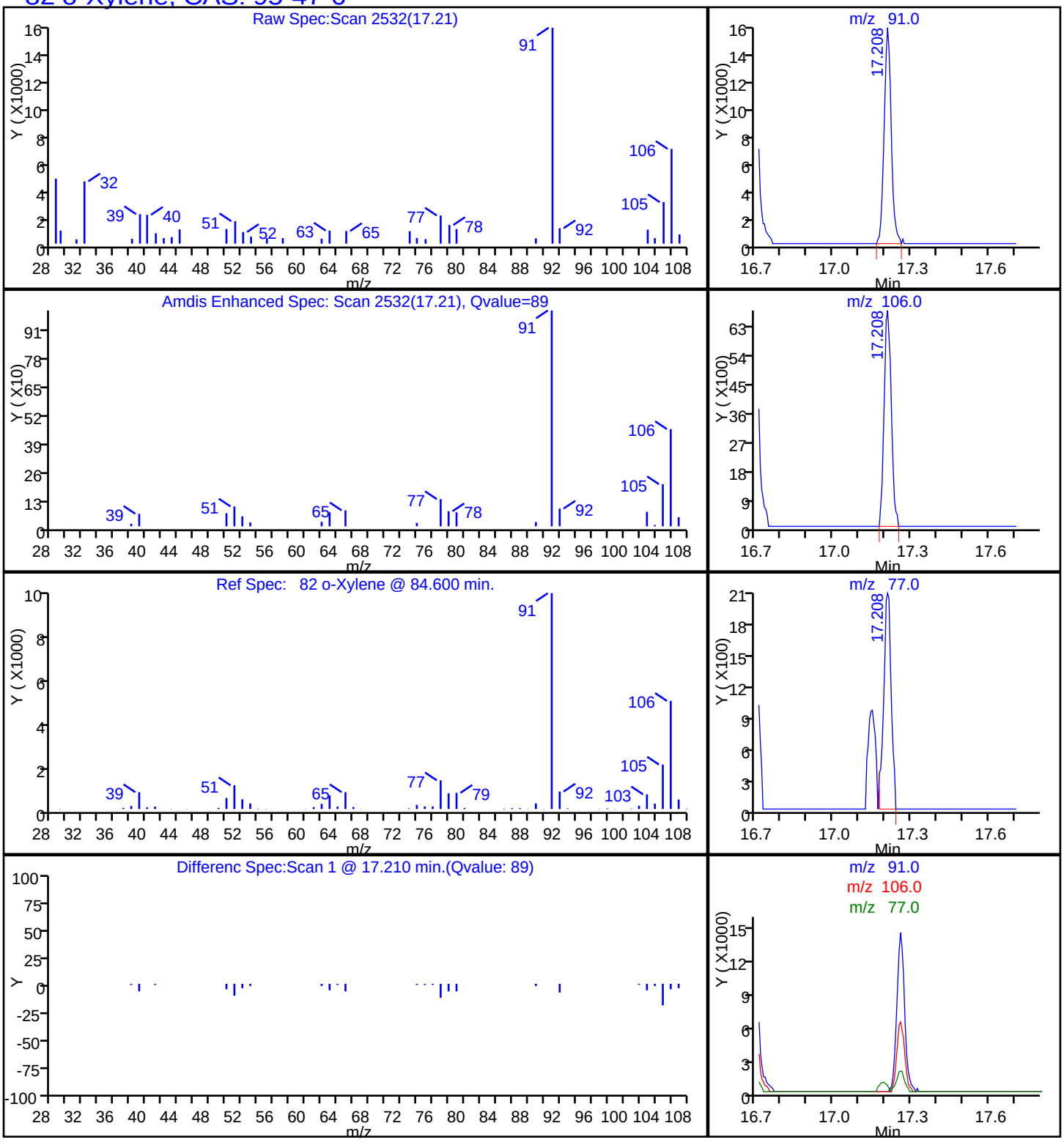
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
Client ID:	PCV-IA3-B11				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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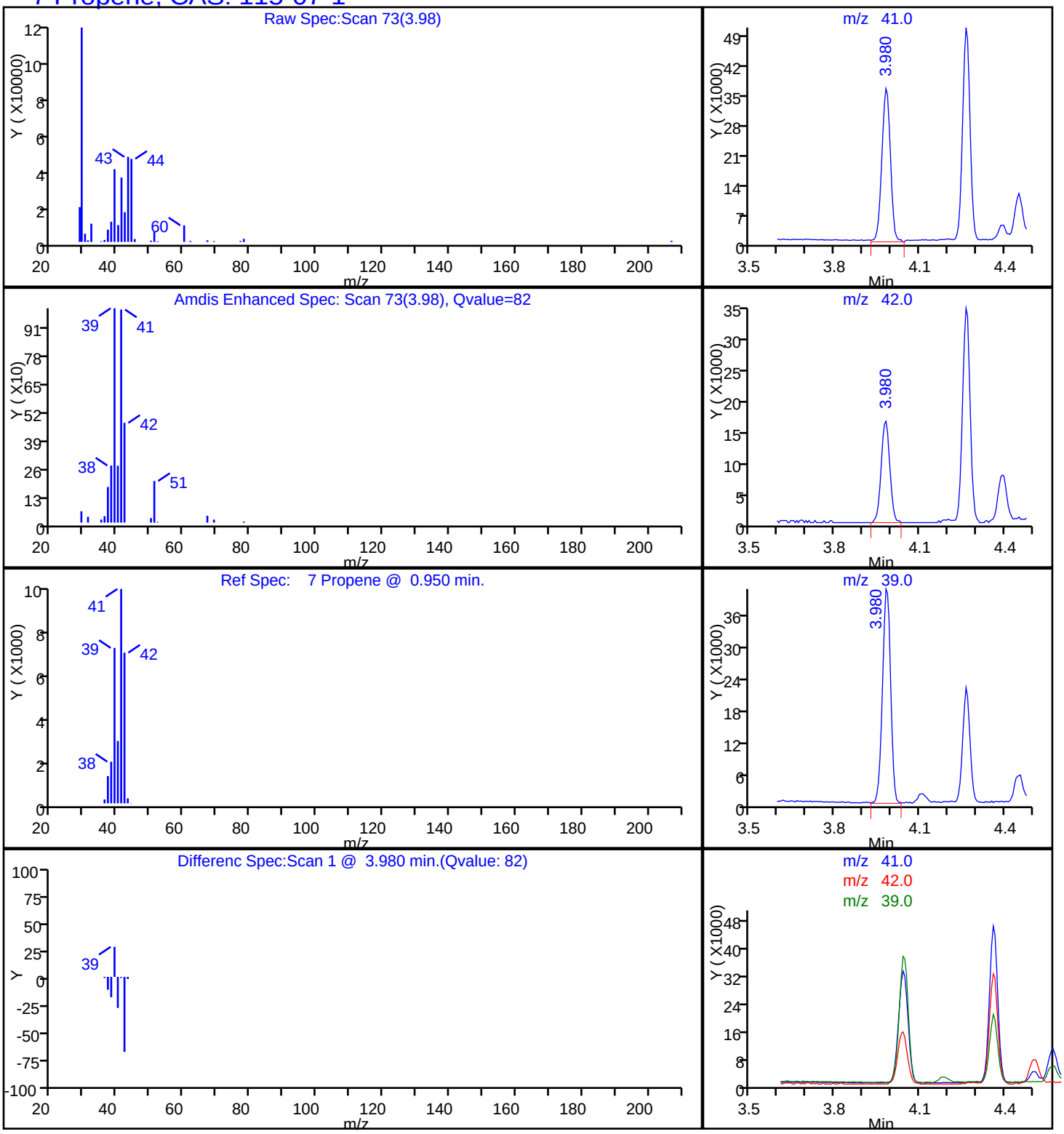
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30 Instrument ID: MJ

Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

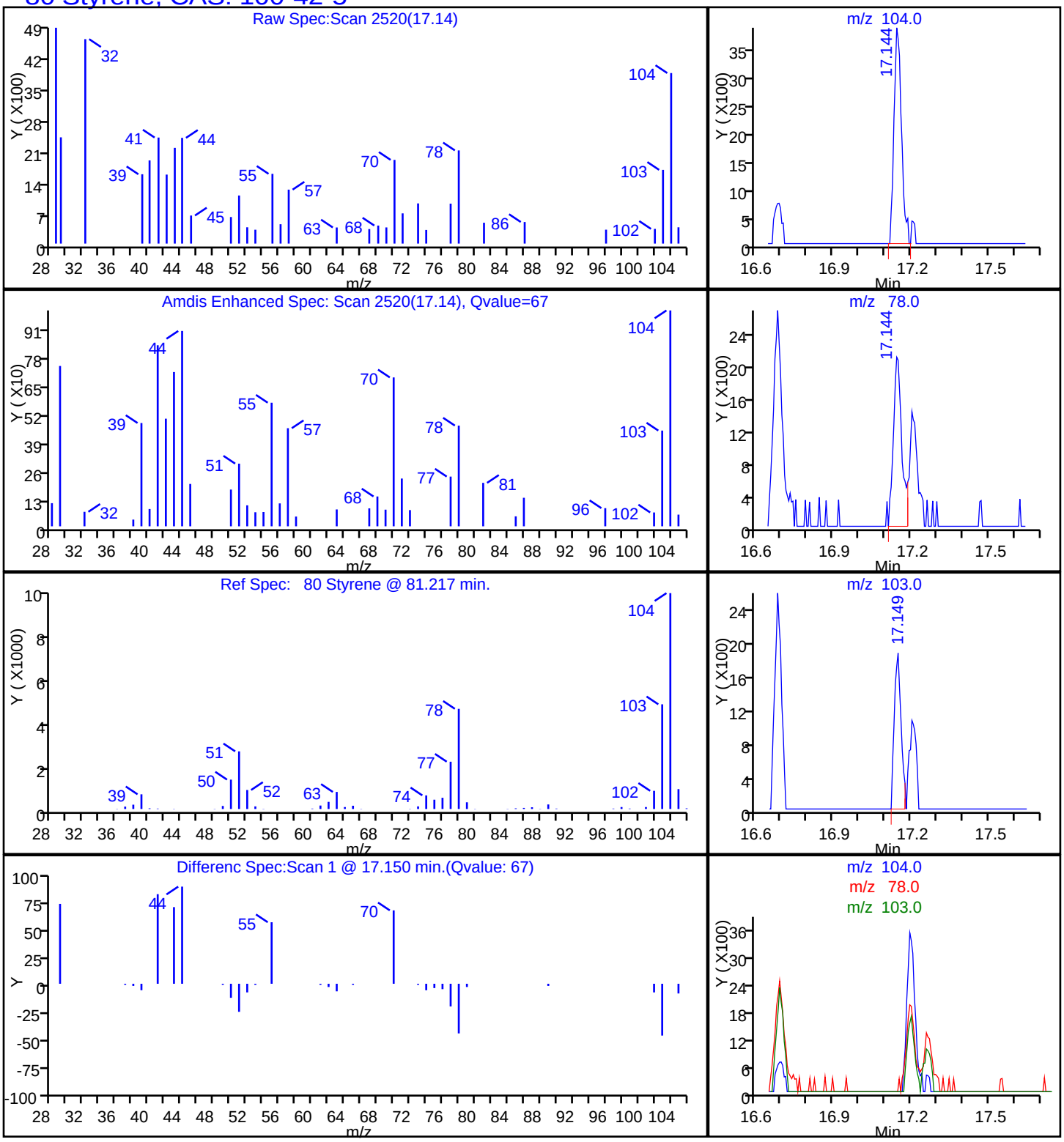
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

80 Styrene, CAS: 100-42-5



Report Date: 20-Mar-2014 14:57:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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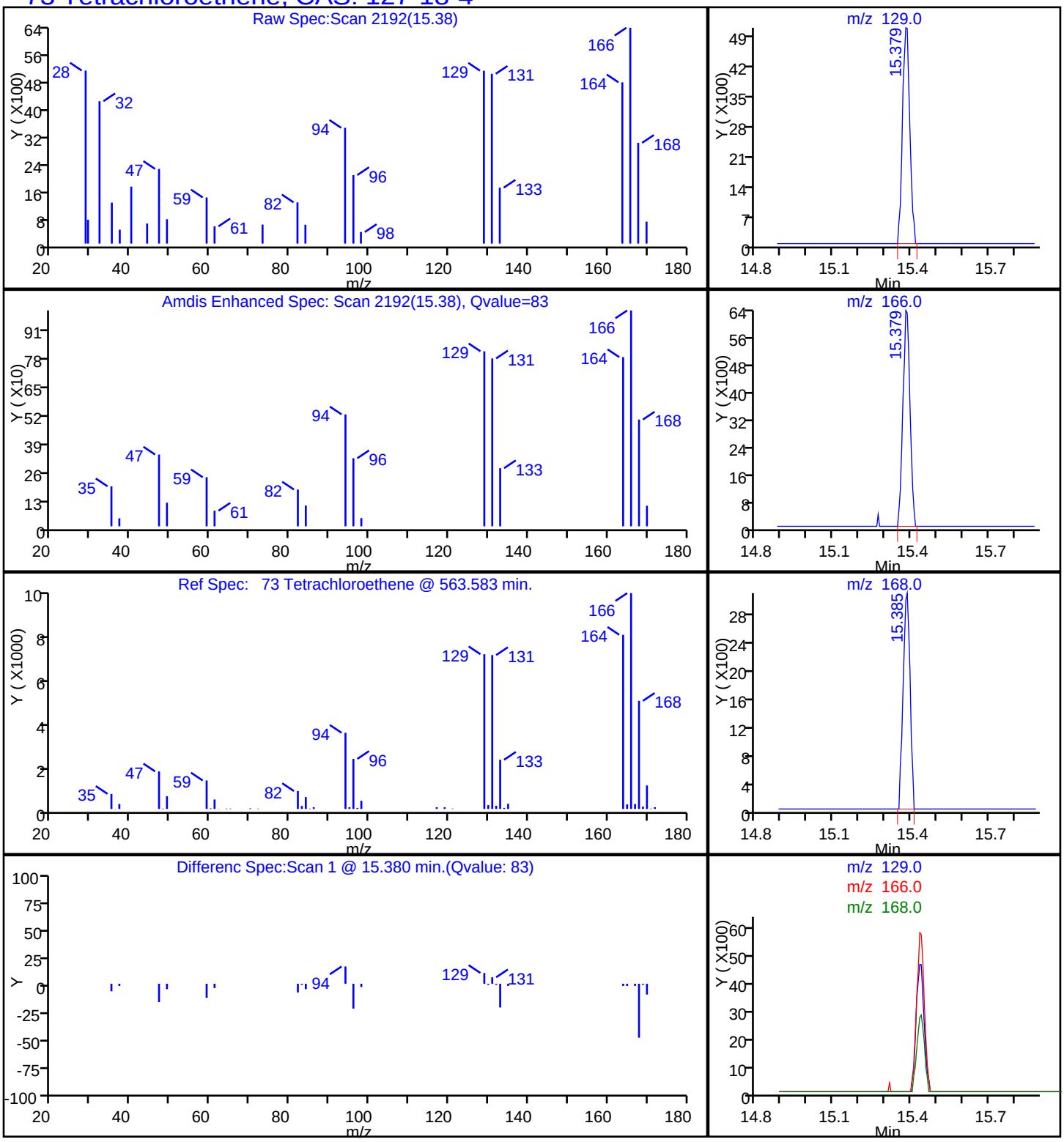
Operator ID: 403648 ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL Dil. Factor: 1.6400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



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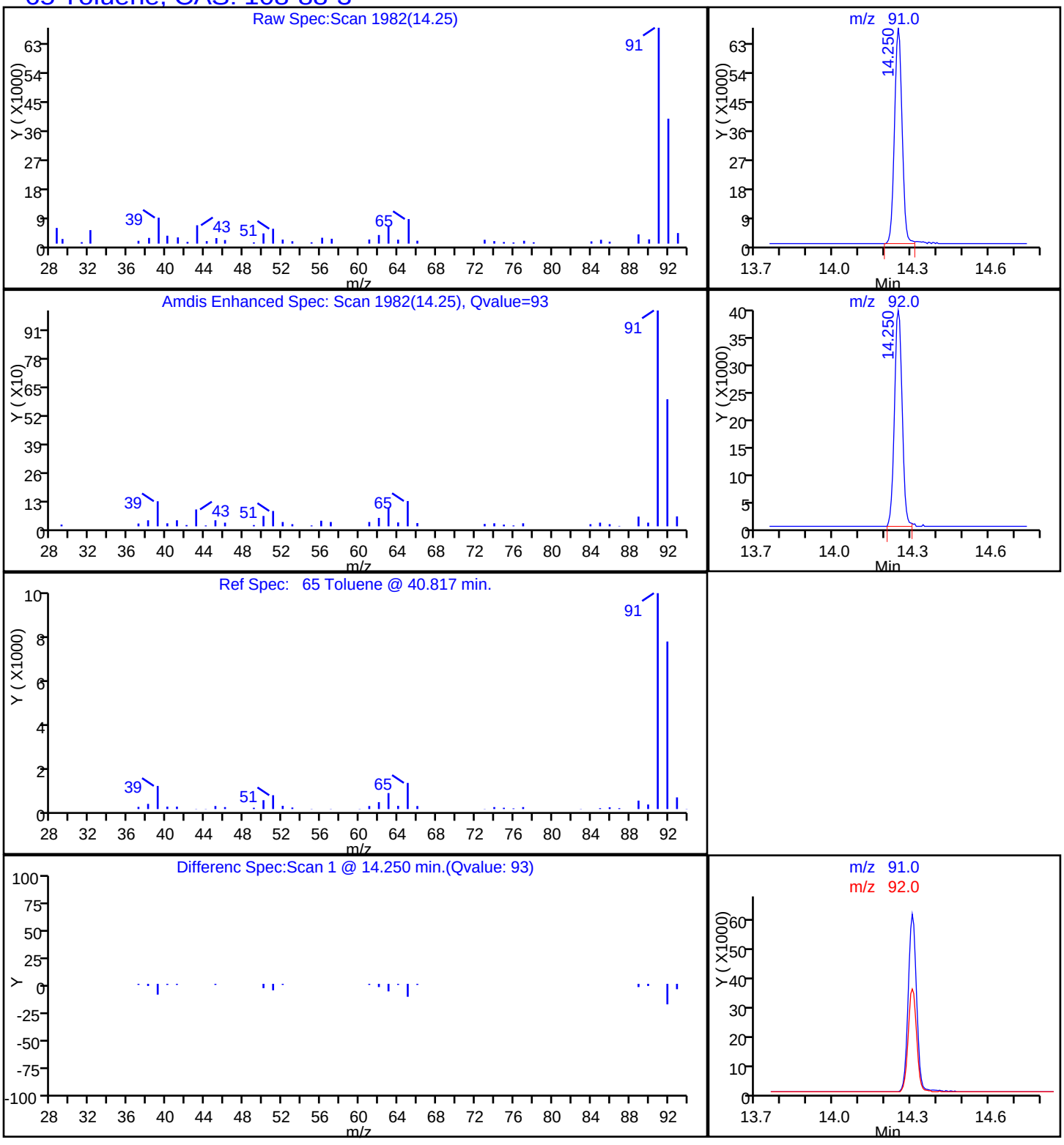
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D		
Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12
Client ID:	PCV-IA3-B11		
Operator ID:	403648	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	500.000 mL	Dil. Factor:	1.6400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



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Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date:	19-Mar-2014 07:51:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-12	Lab Sample ID:	140-1063-12		
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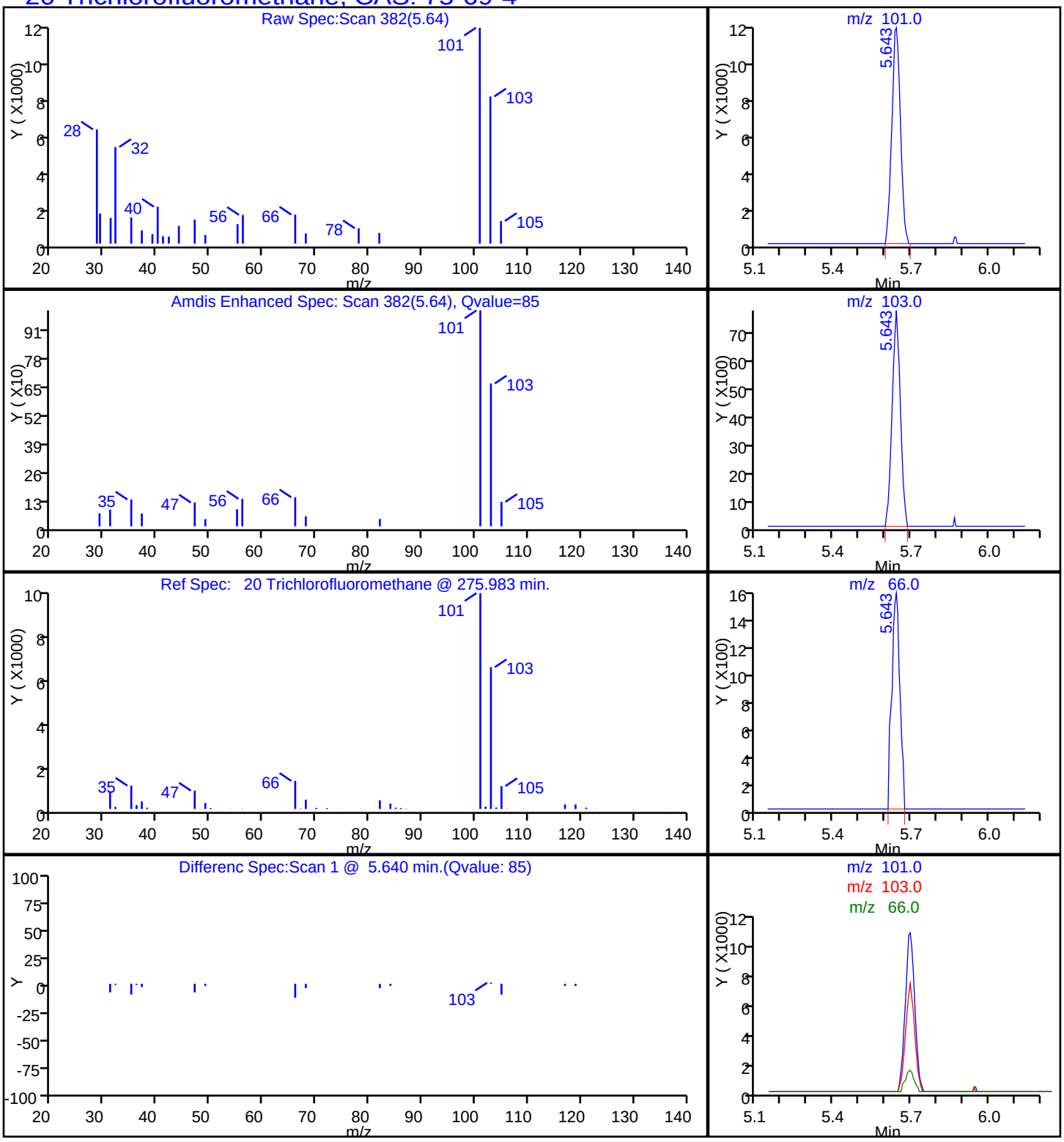
Purge Vol:	500.000 mL	Dil. Factor:	1.6400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.19	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.51		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.46	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.56		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.092	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.32	J	0.50	0.045
67-64-1	Acetone	58.08	3.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.90		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.092	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.17	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	68		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.26	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.47	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.73		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.28		0.20	0.061
115-07-1	Propene	42.08	2.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.31		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.6		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.92	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	2.4		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	6.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	2.0		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.45	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.3	J	2.0	0.18
67-64-1	Acetone	58.08	7.2	J	12	3.3
71-43-2	Benzene	78.11	2.9		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.45	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.60	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	130		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	1.1	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.6	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.2		0.87	0.26
115-07-1	Propene	42.08	3.9	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.1		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13

Matrix: Air Lab File ID: JC18P215.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:04

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D
Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13
Client ID: IA1-E14
Sample Type: Client
Inject. Date: 19-Mar-2014 08:44:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-13
Misc. Info.: J031814,TO15,,140-0000527-021
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 12:46:20 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 12:46:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.388	-0.012	90	372093	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1765083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1488275	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	92	1027619	3.90	
7 Propene	41	3.975	3.971	0.004	95	103360	0.9059	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	67083	0.1820	
9 Chloromethane	52	4.233	4.229	0.004	97	8171	0.1952	
17 Ethanol	31	5.115	5.116	-0.001	94	812443	27.2	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	136213	0.8619	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	91	25854	0.0798	
23 Acetone	58	5.766	5.767	-0.001	92	64127	1.21	
24 Isopropyl alcohol	45	5.852	5.848	0.004	97	289878	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.579	6.580	-0.001	68	6299	0.0281	
31 Methylene Chloride	84	6.751	6.757	-0.006	86	14882	0.1495	
35 2-Methylpentane	43	7.622	7.623	-0.001	93	64641	0.2251	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	81	6440	0.1828	
40 Hexane	56	8.628	8.635	-0.007	90	18725	0.1872	
43 Chloroform	83	9.392	9.393	-0.001	16	7988	0.0368	
48 Benzene	78	11.017	11.023	-0.006	95	108740	0.3591	
49 Cyclohexane	69	11.027	11.034	-0.007	42	4182	0.0700	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	79	6622	0.0265	
53 Isooctane	57	11.759	11.760	-0.001	95	105064	0.2032	
54 n-Heptane	71	12.120	12.120	0.0	86	11167	0.1043	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	86	23607	0.1276	
65 Toluene	91	14.250	14.256	-0.006	93	172533	0.6249	
73 Tetrachloroethene	129	15.385	15.386	-0.001	84	15725	0.1223	
76 Ethylbenzene	91	16.525	16.532	-0.007	84	28537	0.0936	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	71743	0.2915	
82 o-Xylene	91	17.208	17.215	-0.007	90	27656	0.1109	
88 4-Ethyltoluene	105	18.446	18.447	-0.001	59	12177	0.0367	
89 1,3,5-Trimethylbenzene	120	18.516	18.516	-0.001	58	3468	0.0208	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	21634	0.0748	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

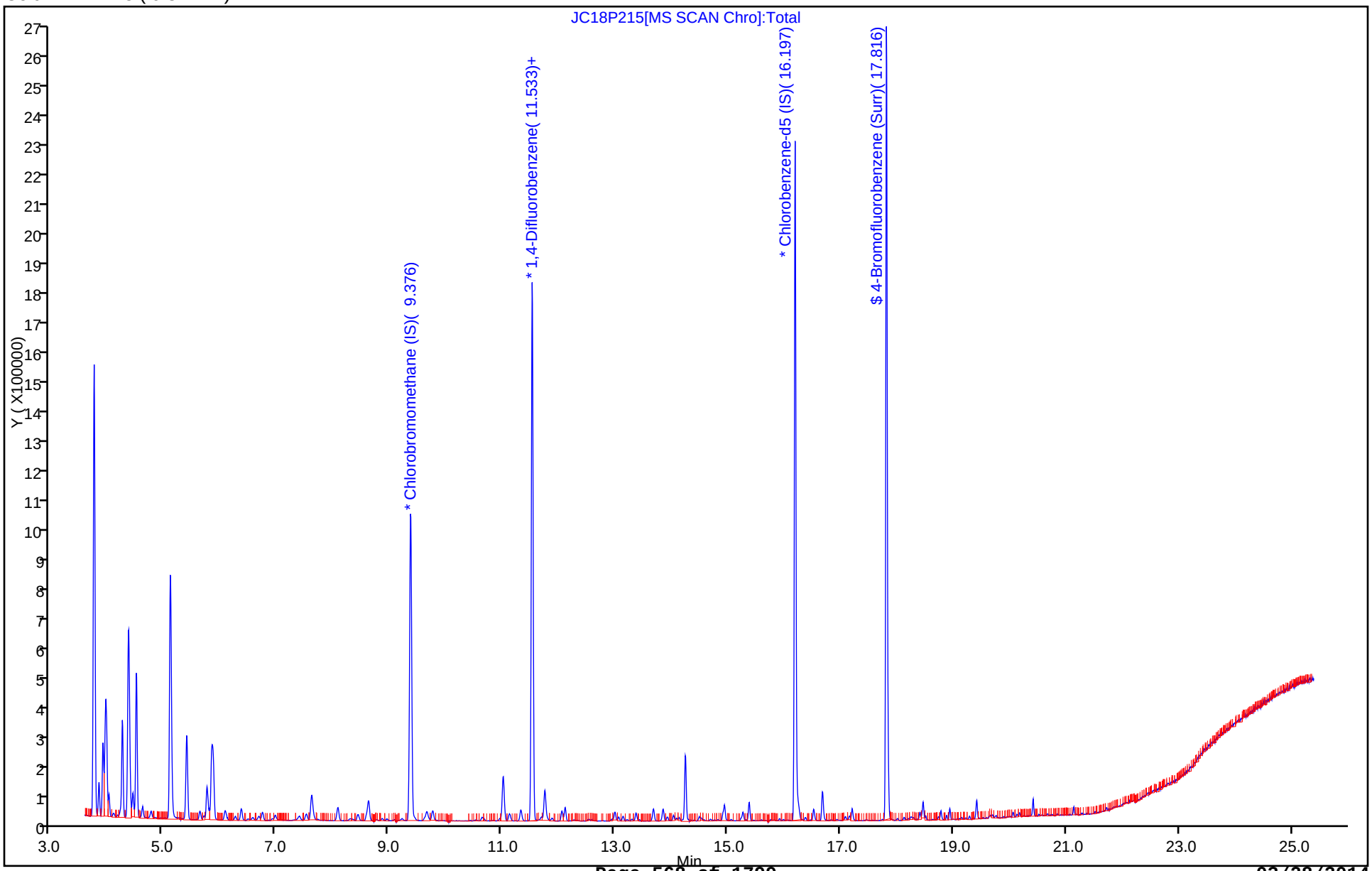
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13	Worklist Smp#:	21
Client ID:	IA1-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

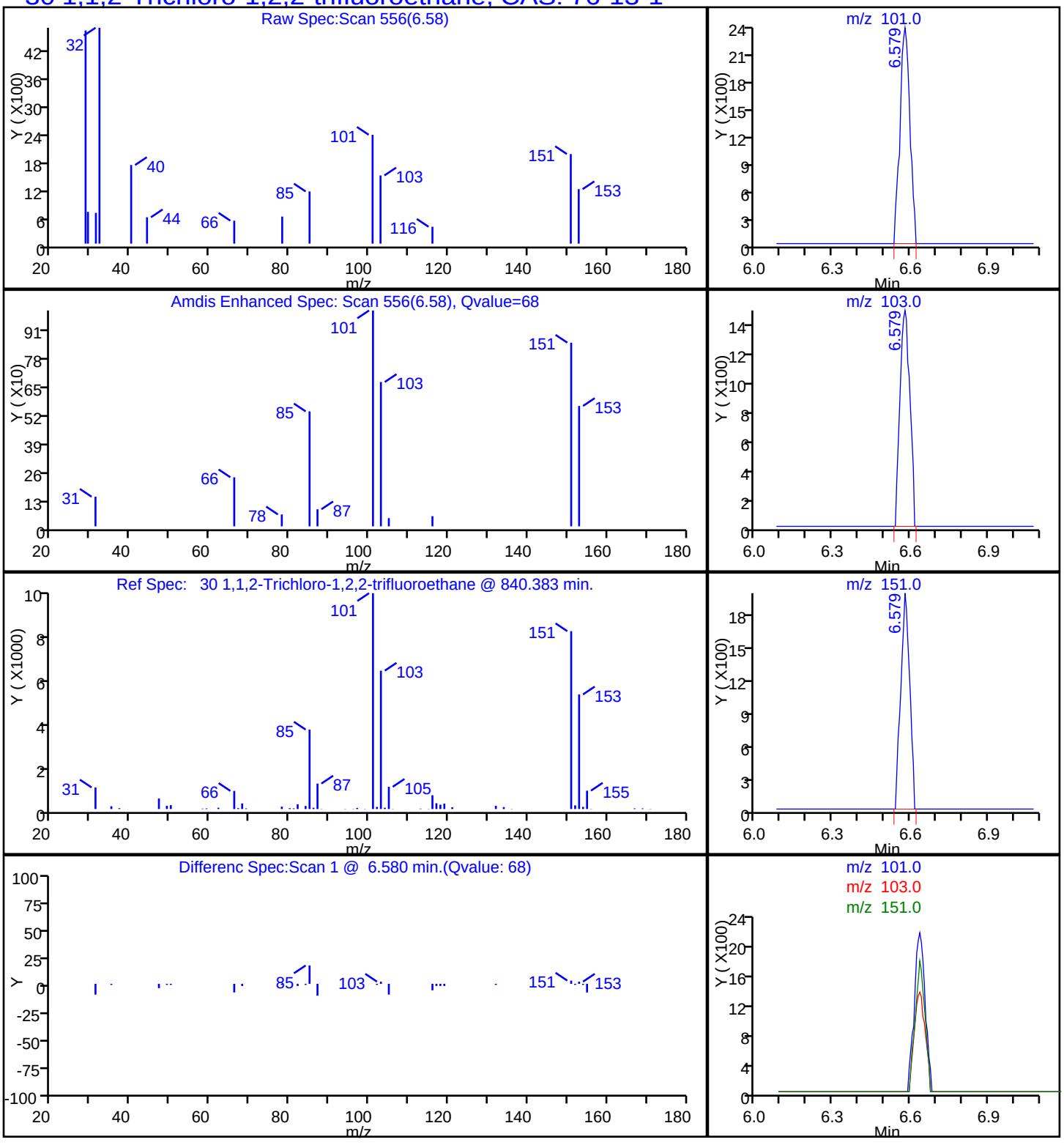
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



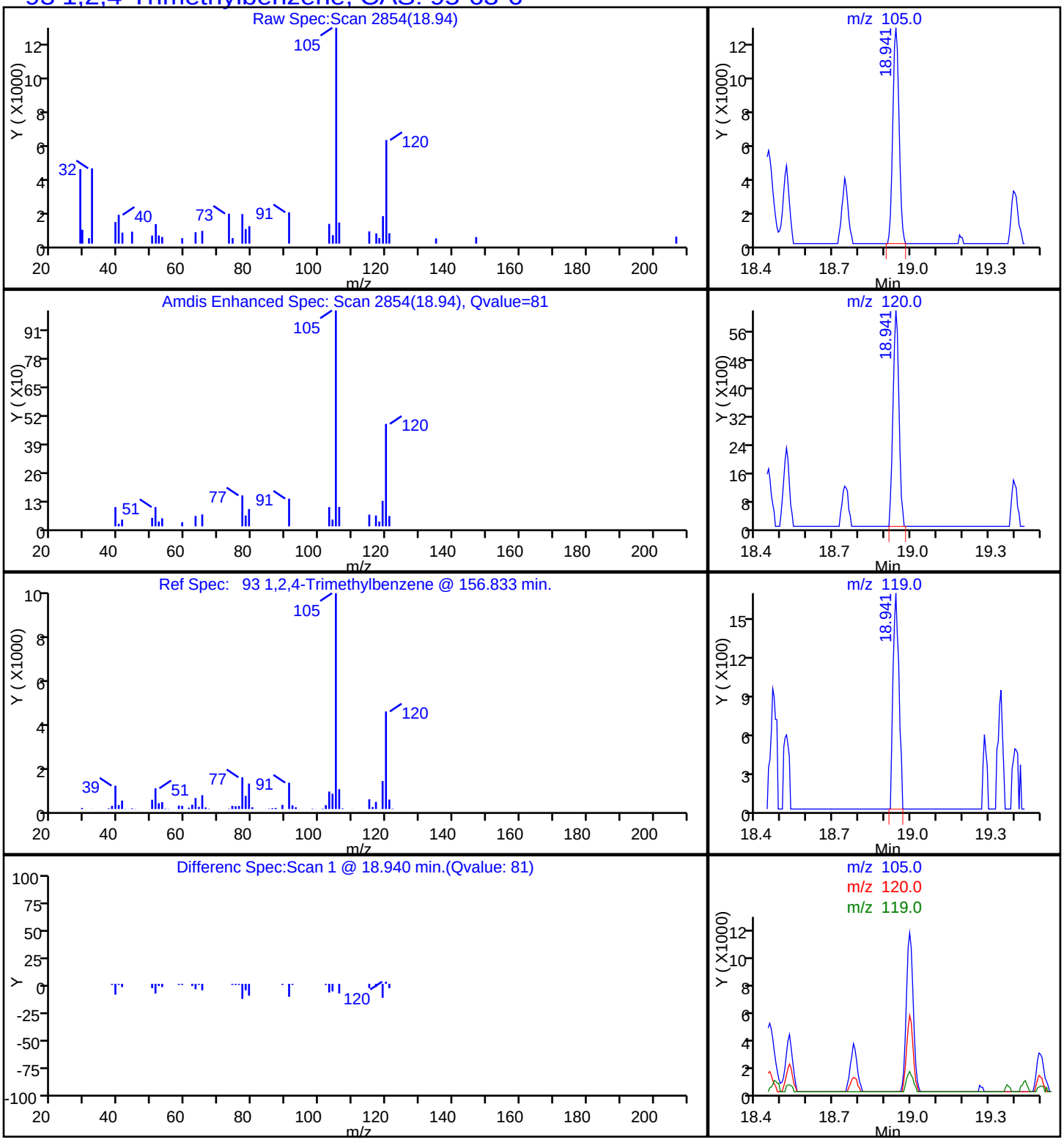
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



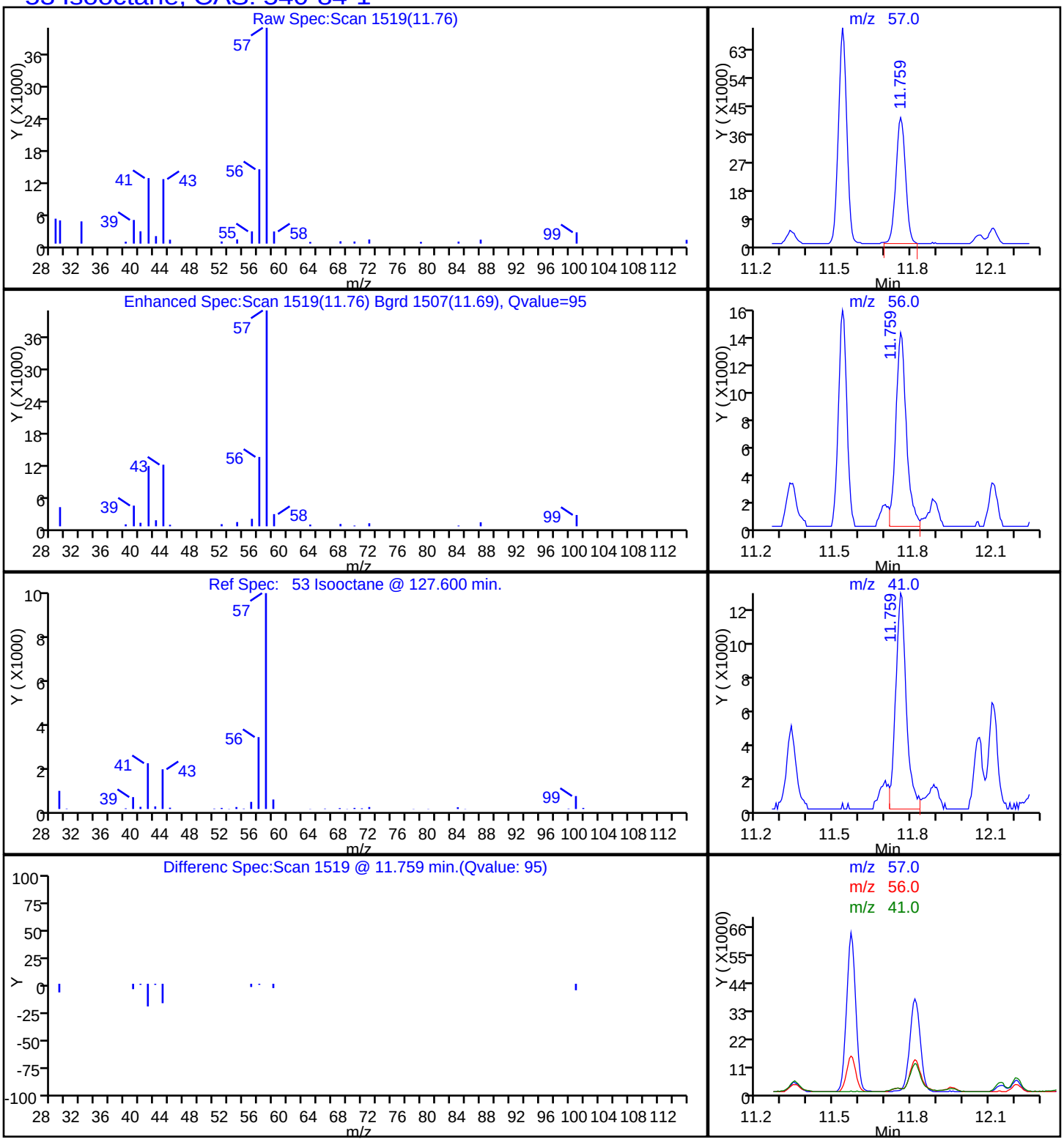
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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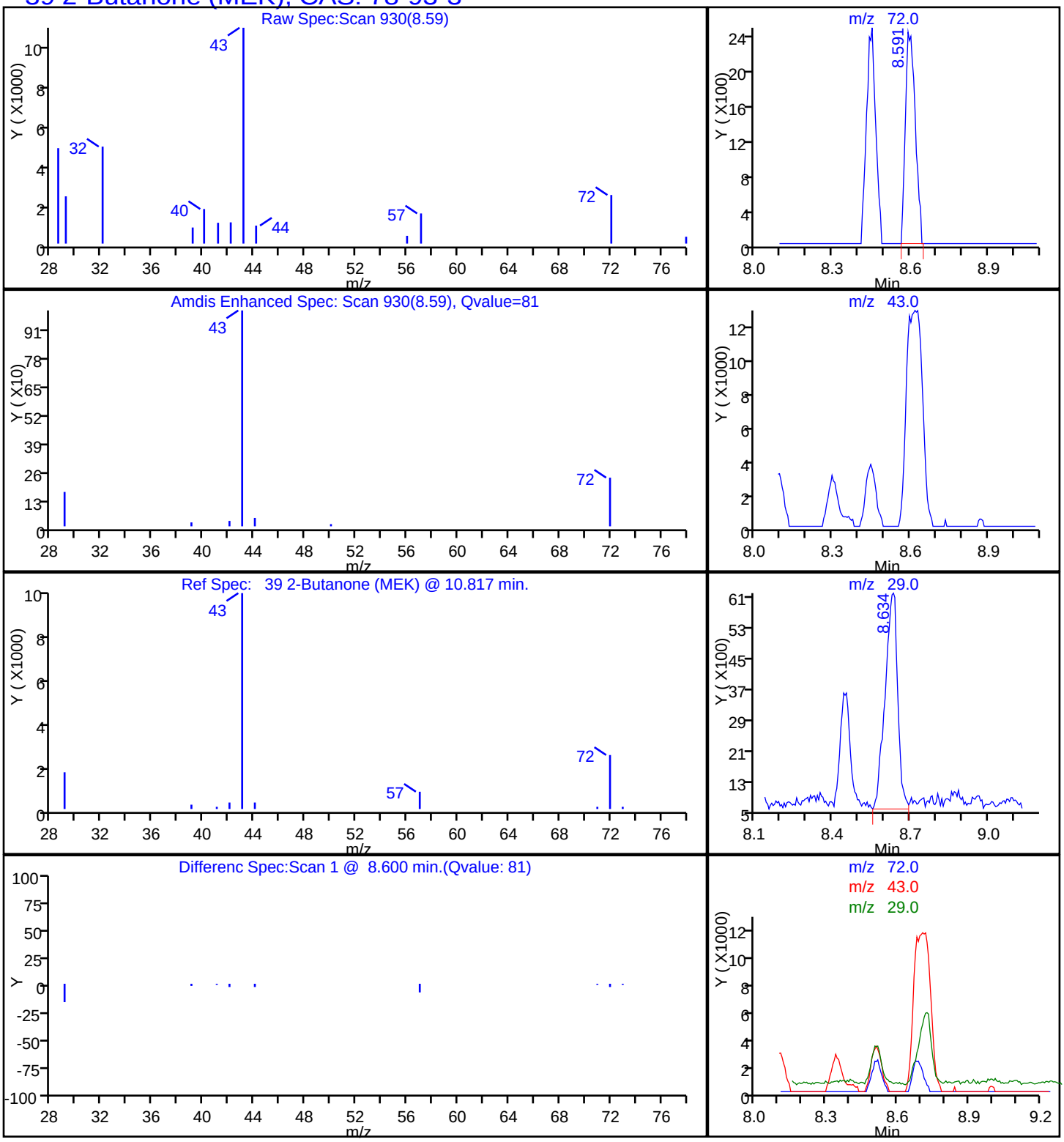
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D				
Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

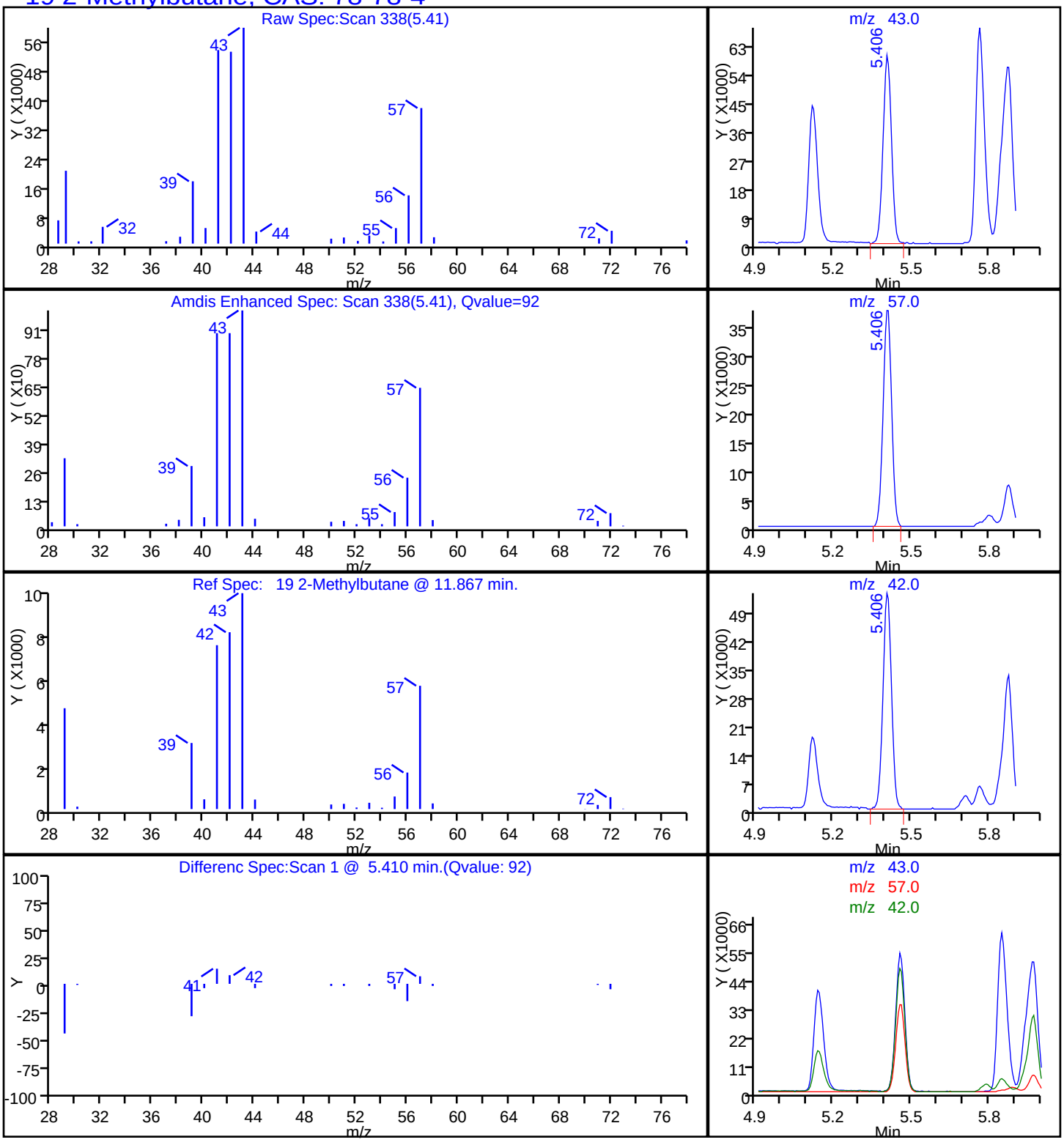
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

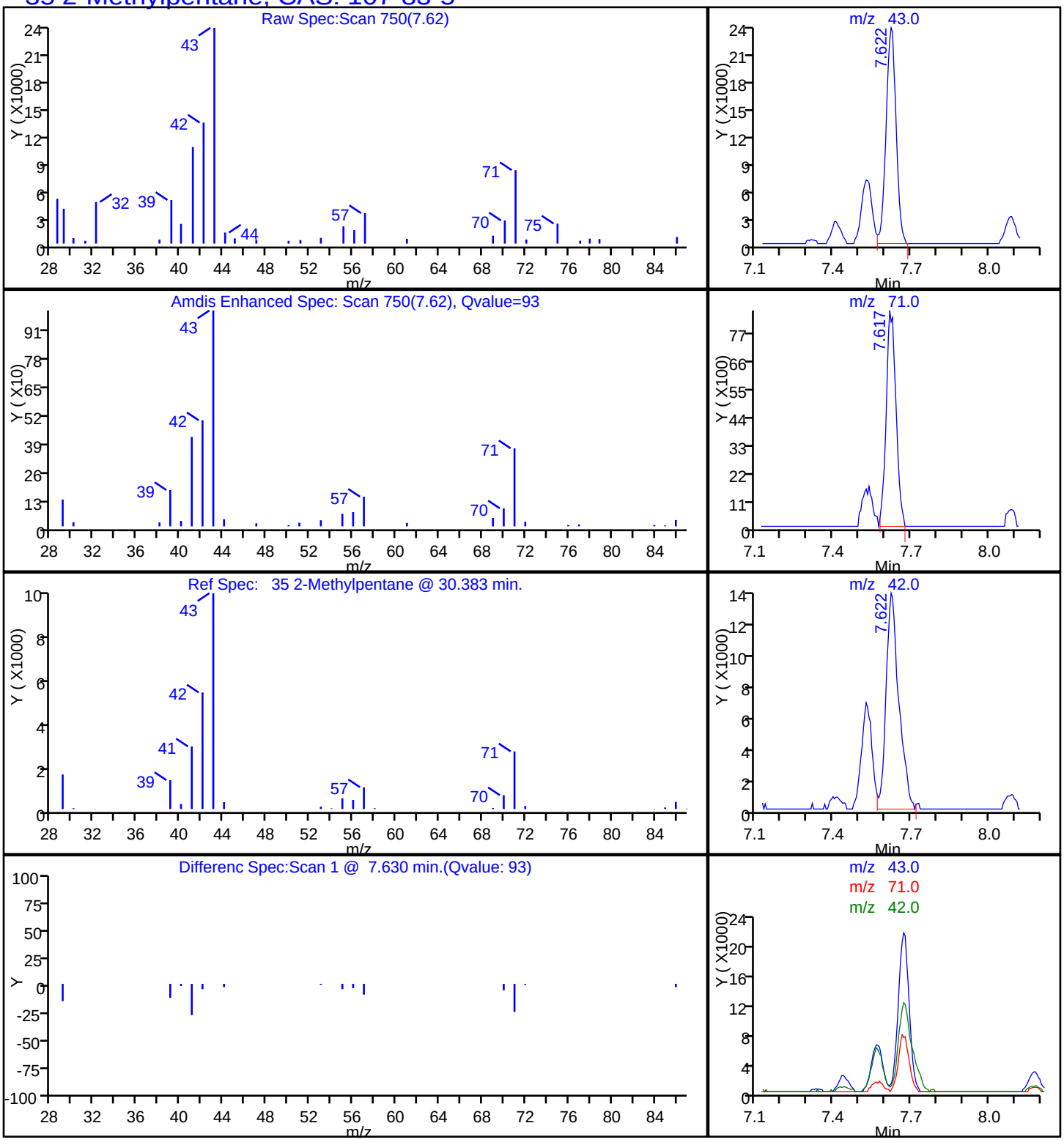
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

35 2-Methylpentane, CAS: 107-83-5



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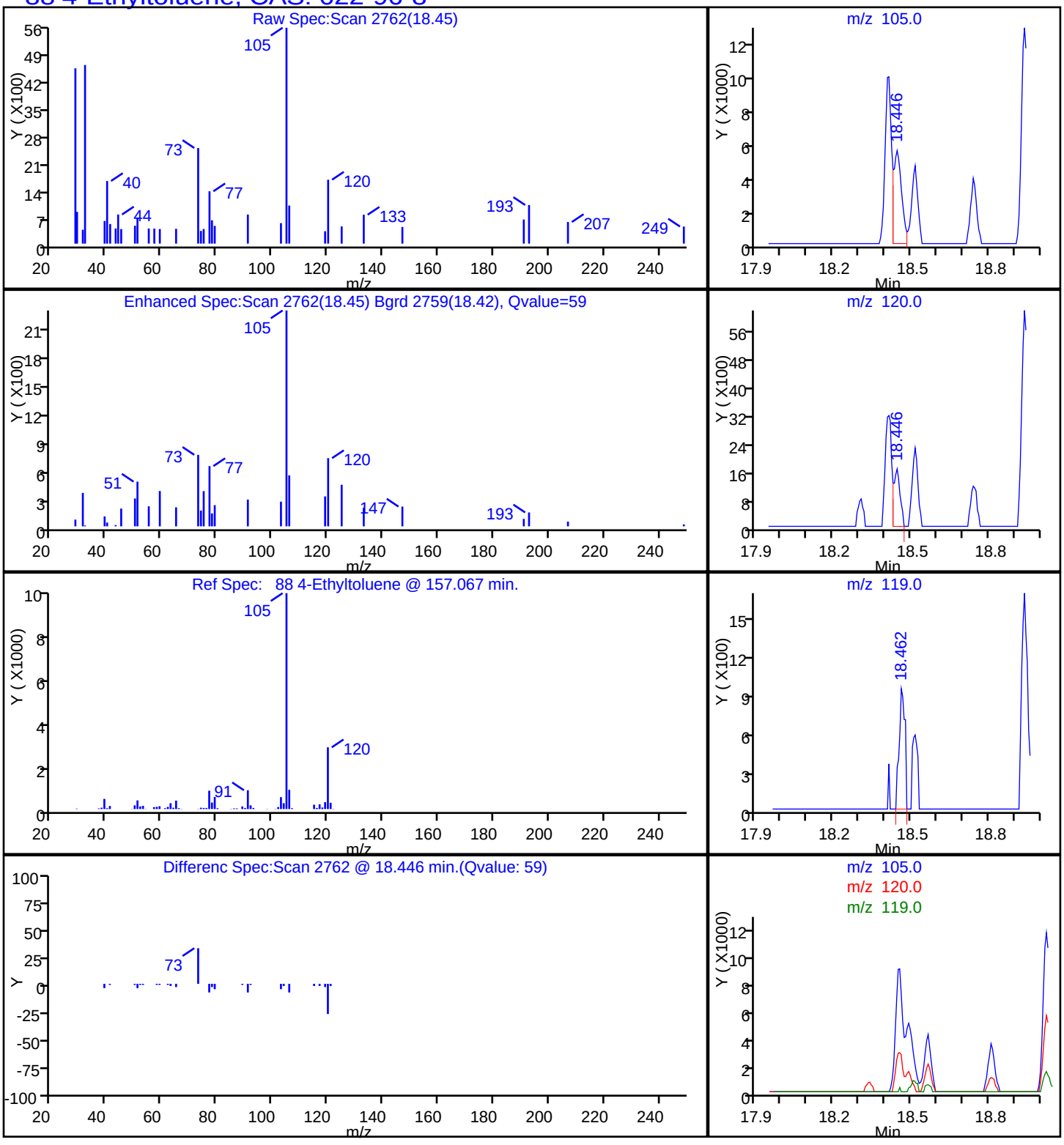
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



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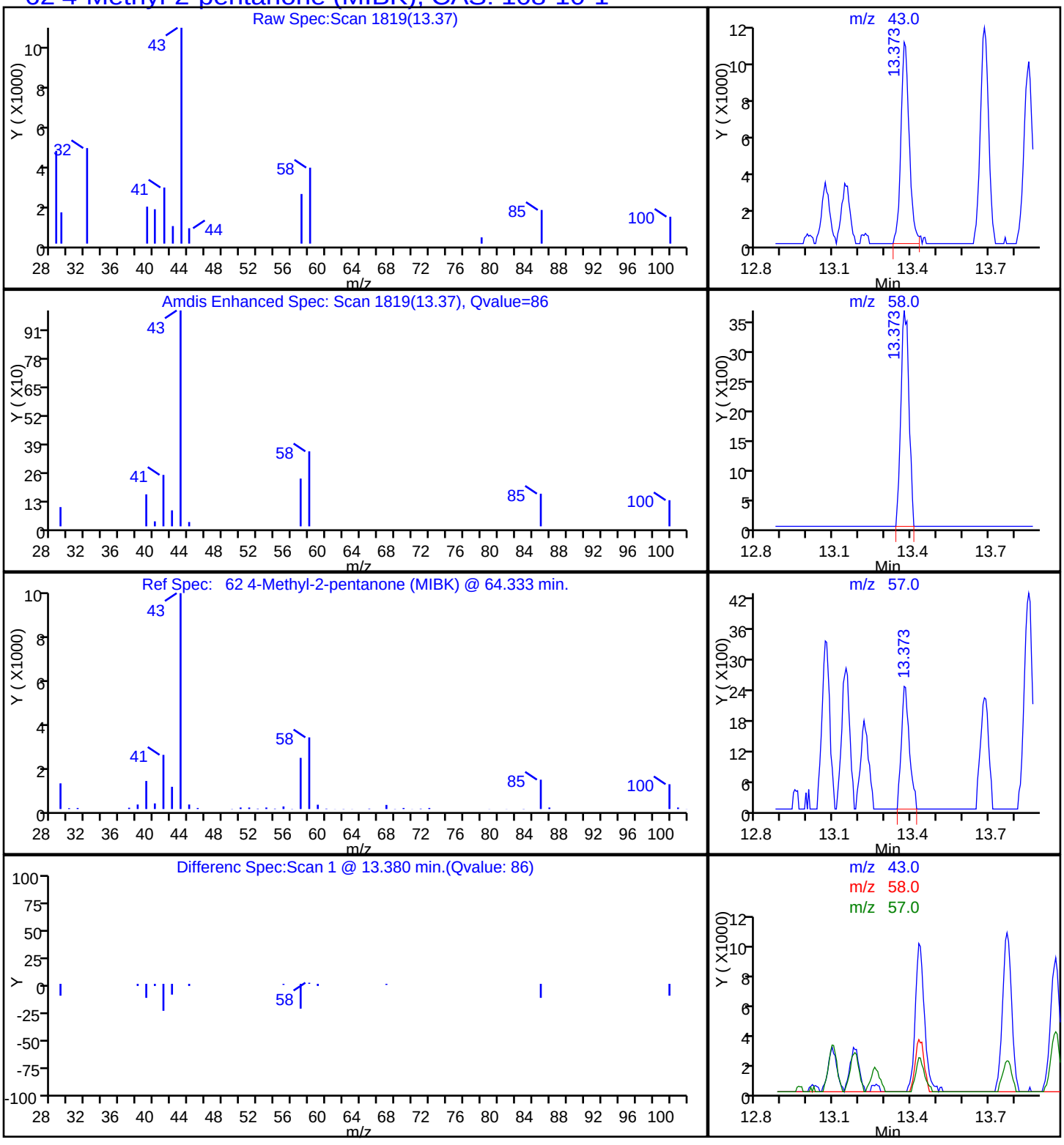
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

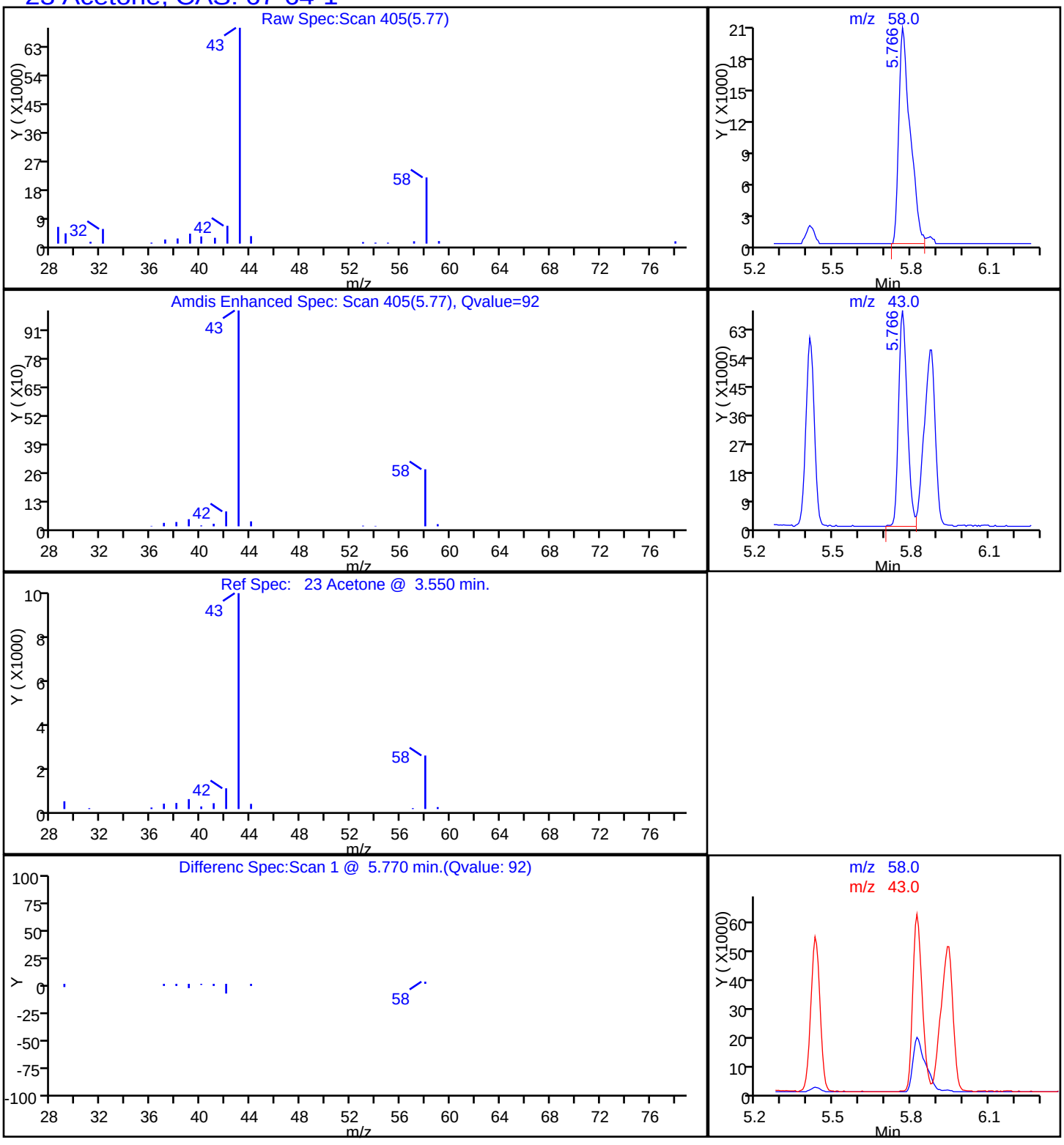
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

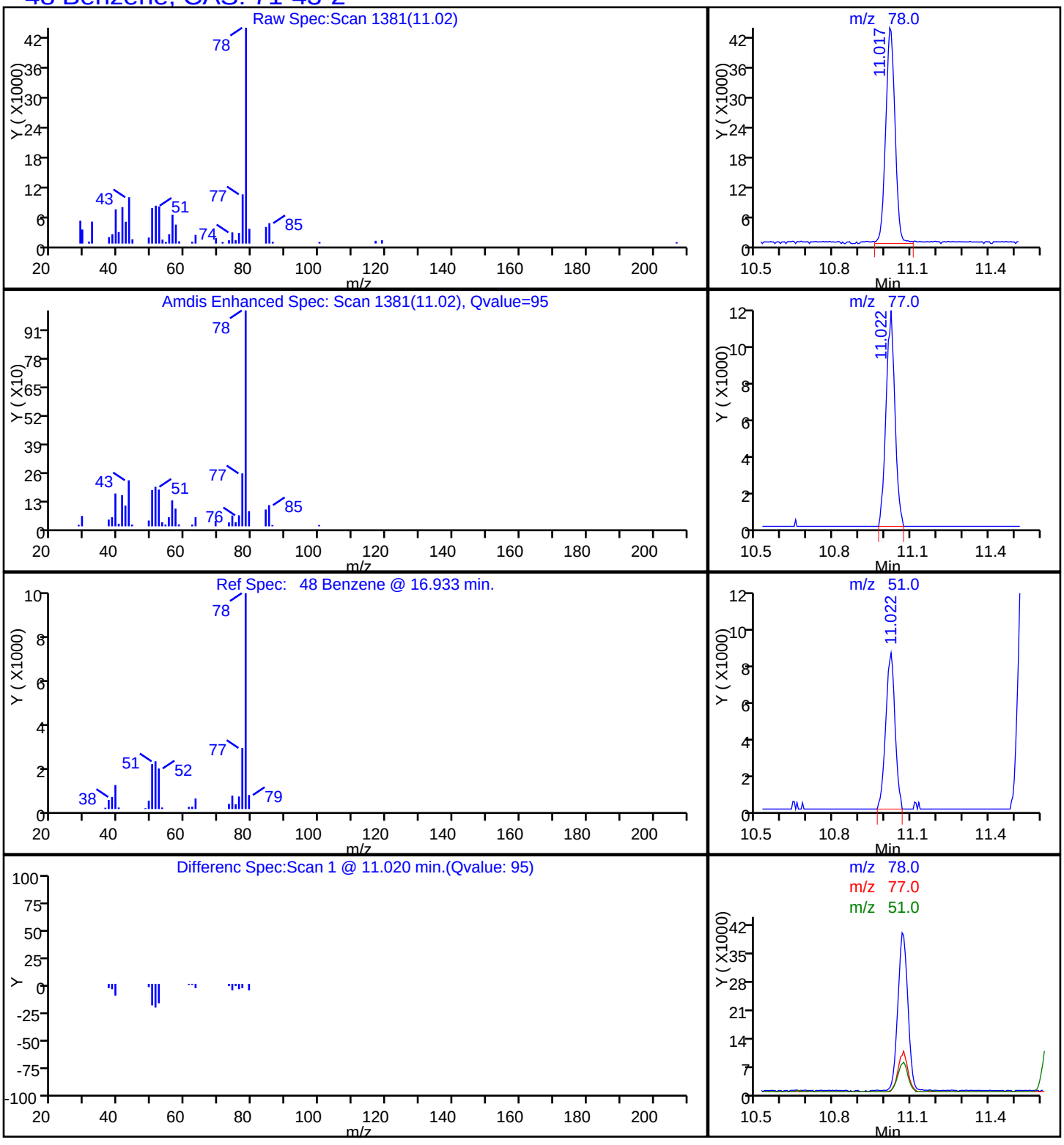
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

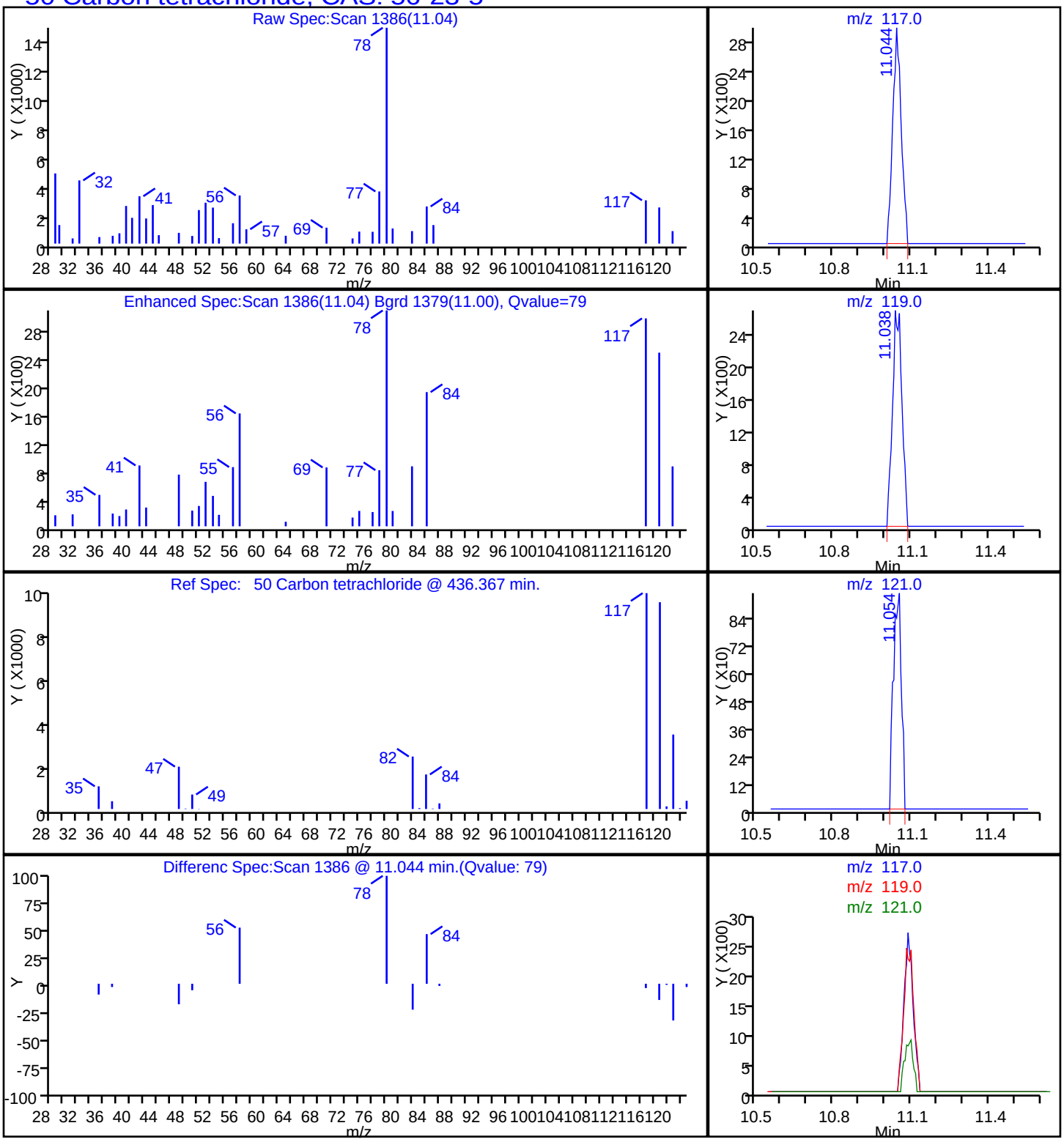
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

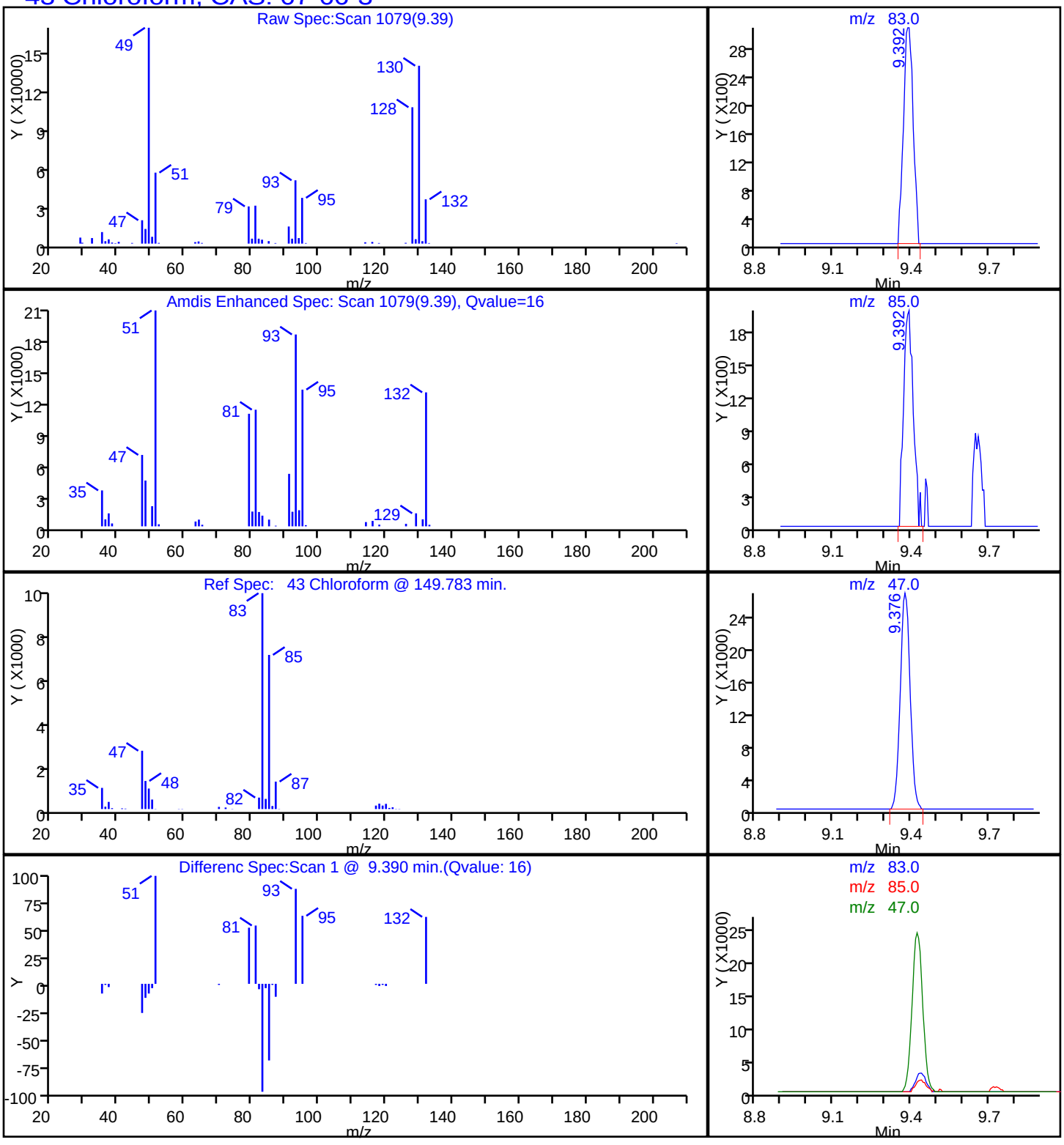
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

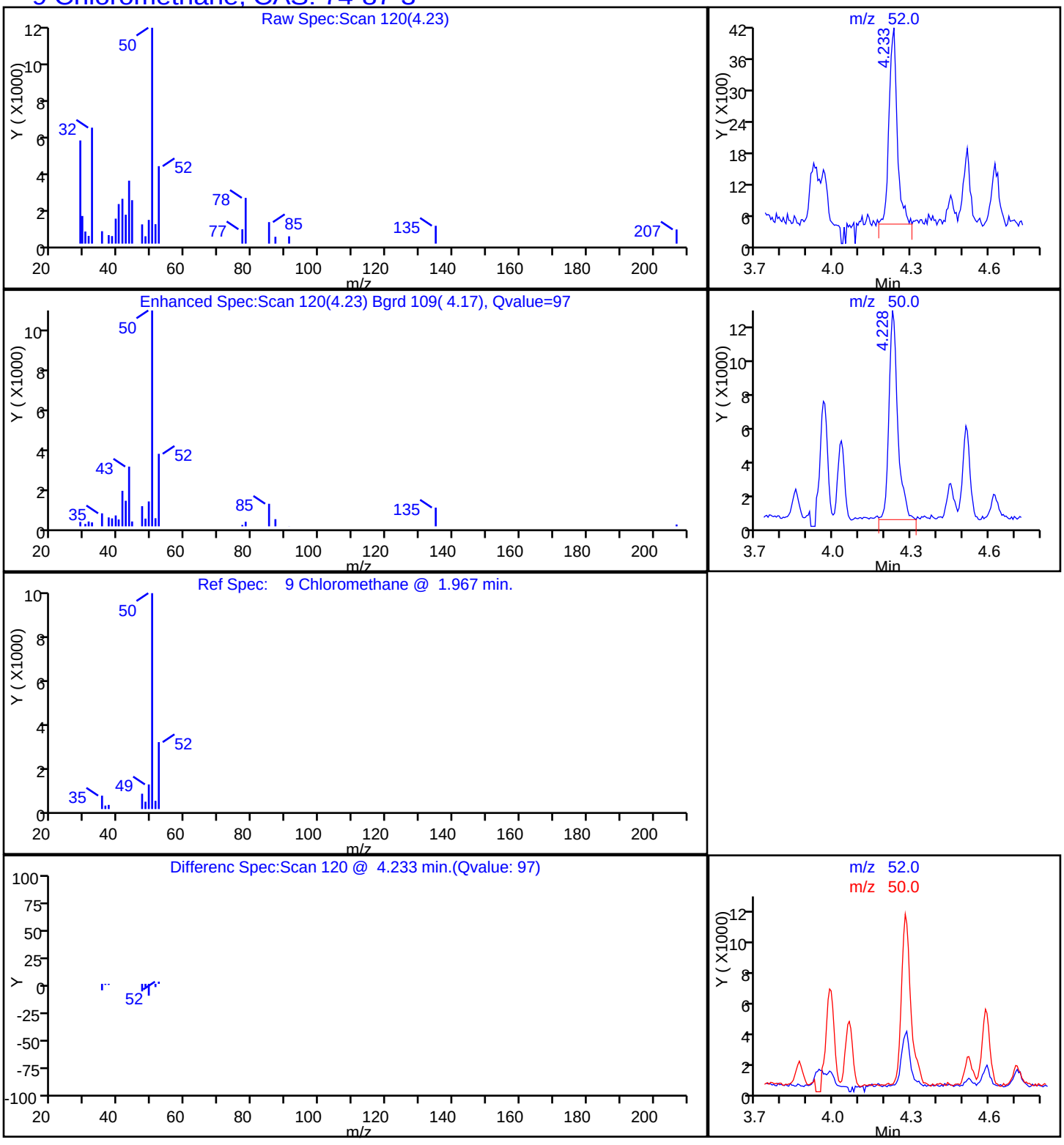
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

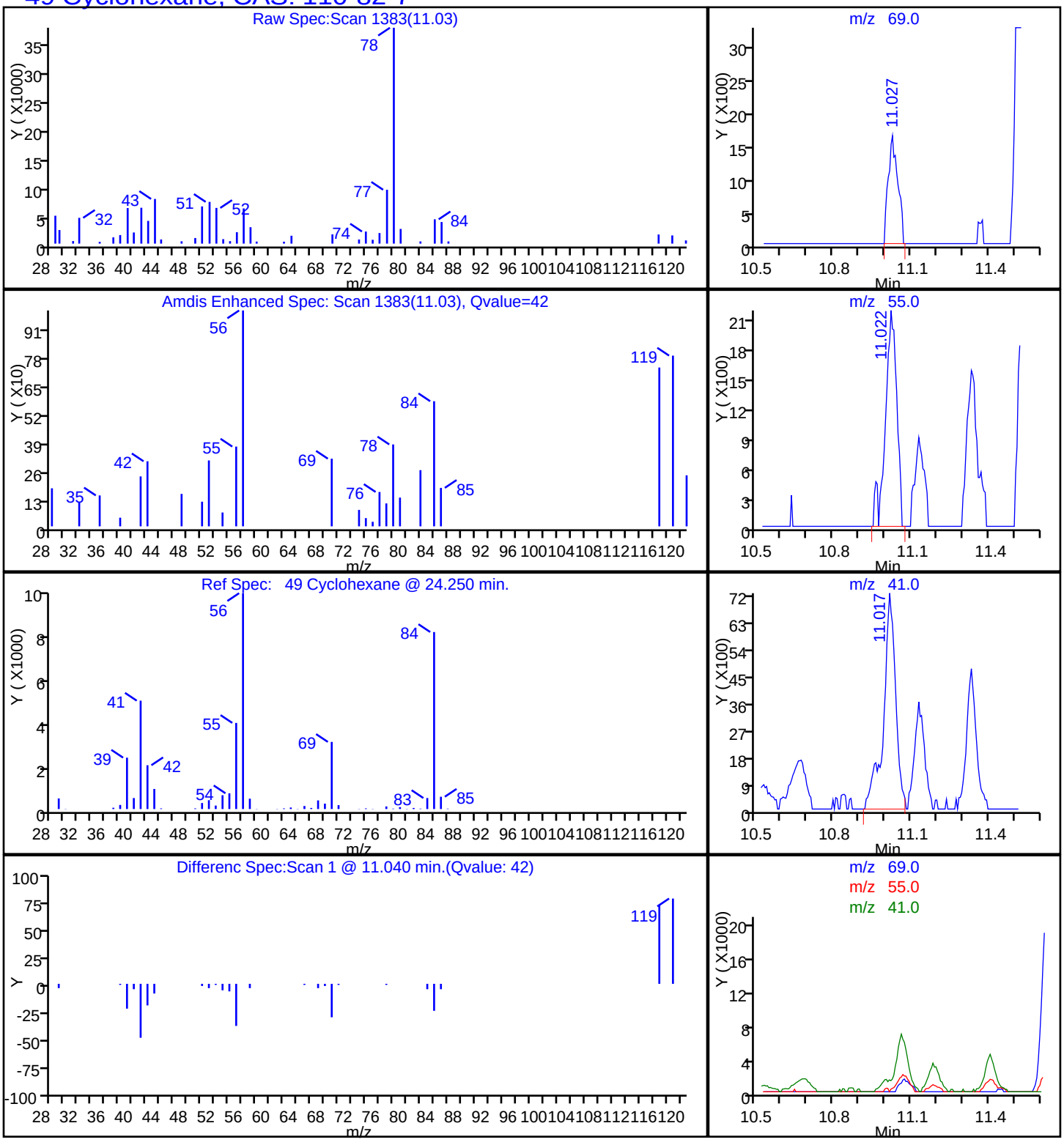
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



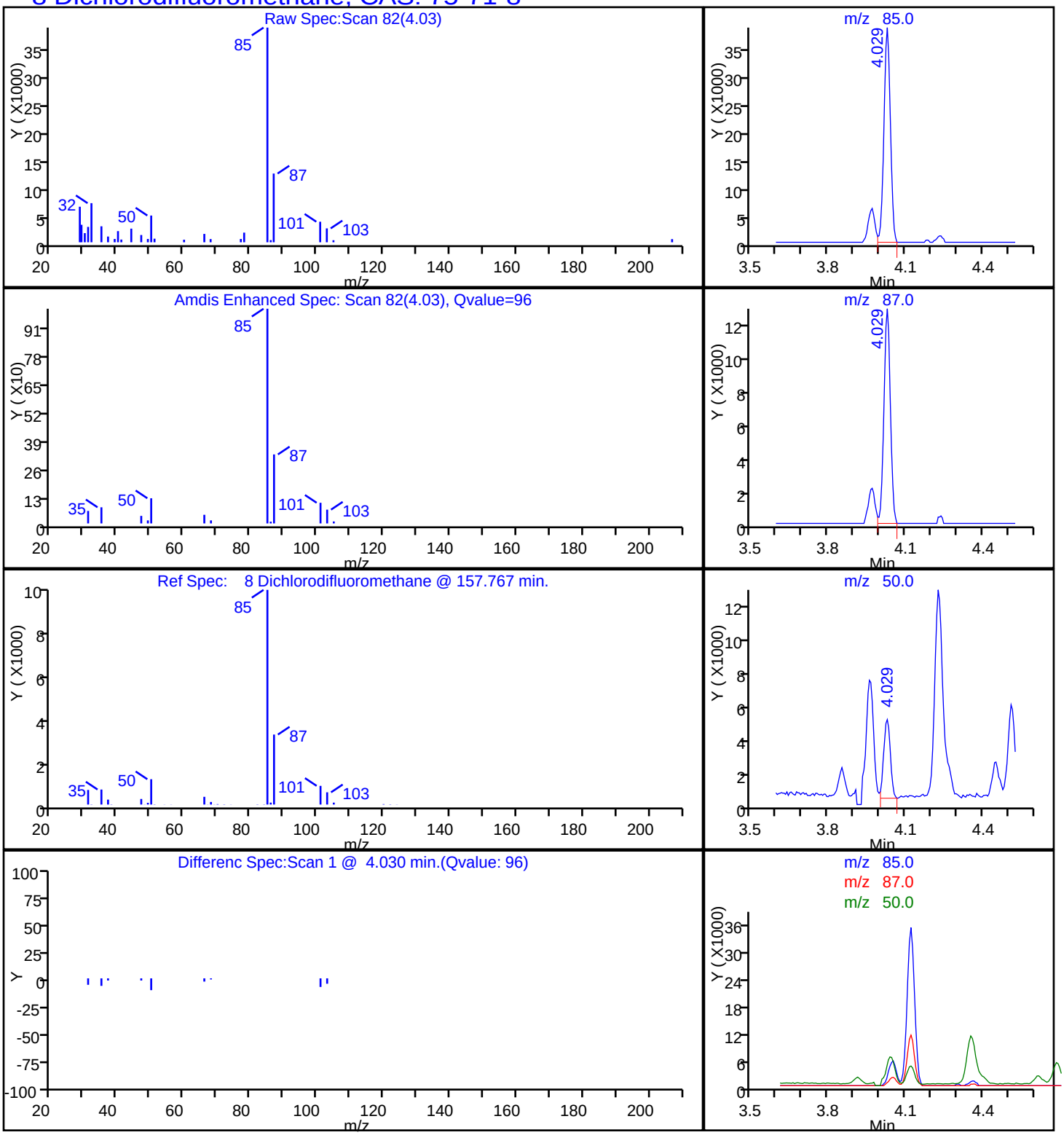
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



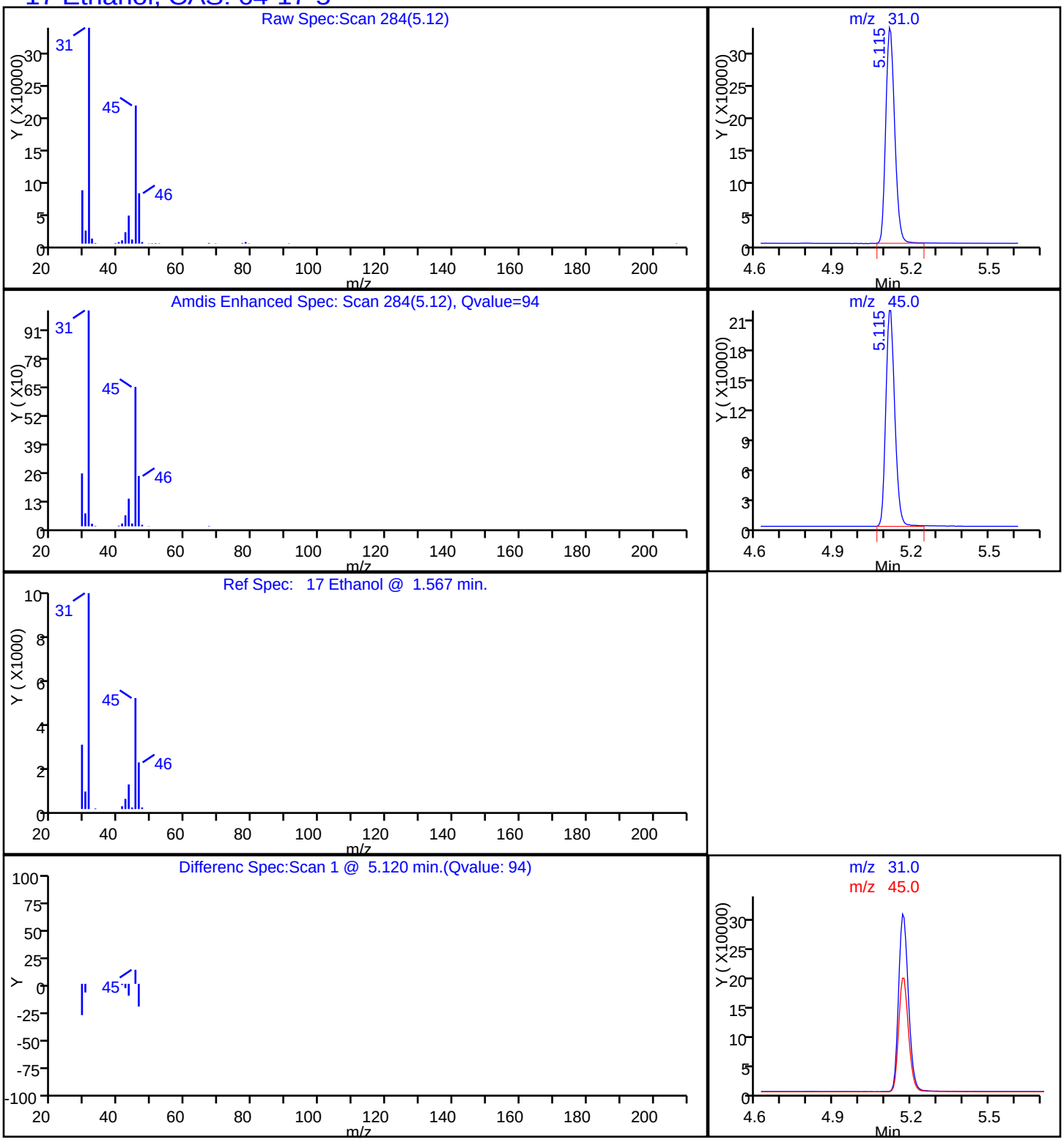
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



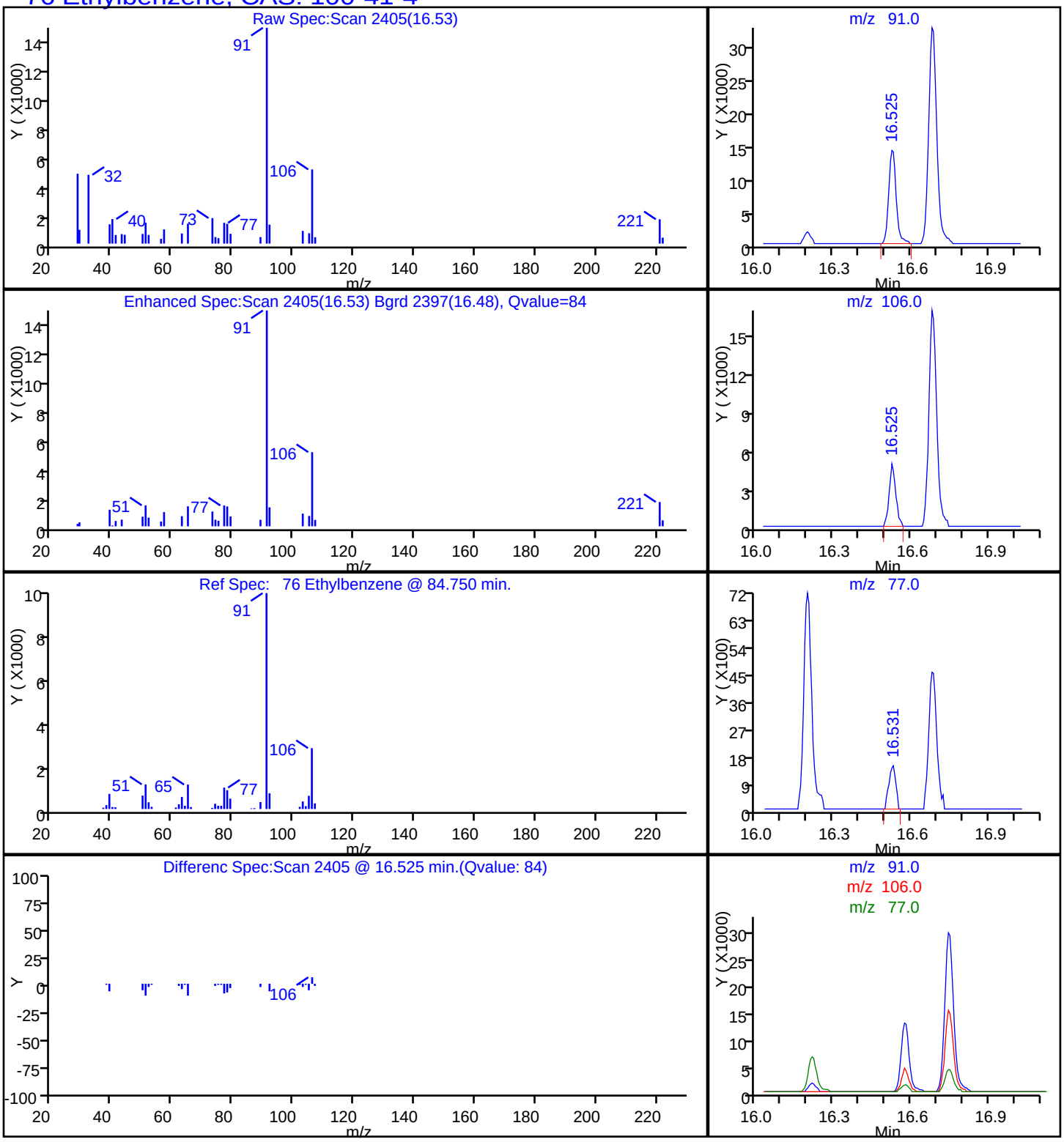
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

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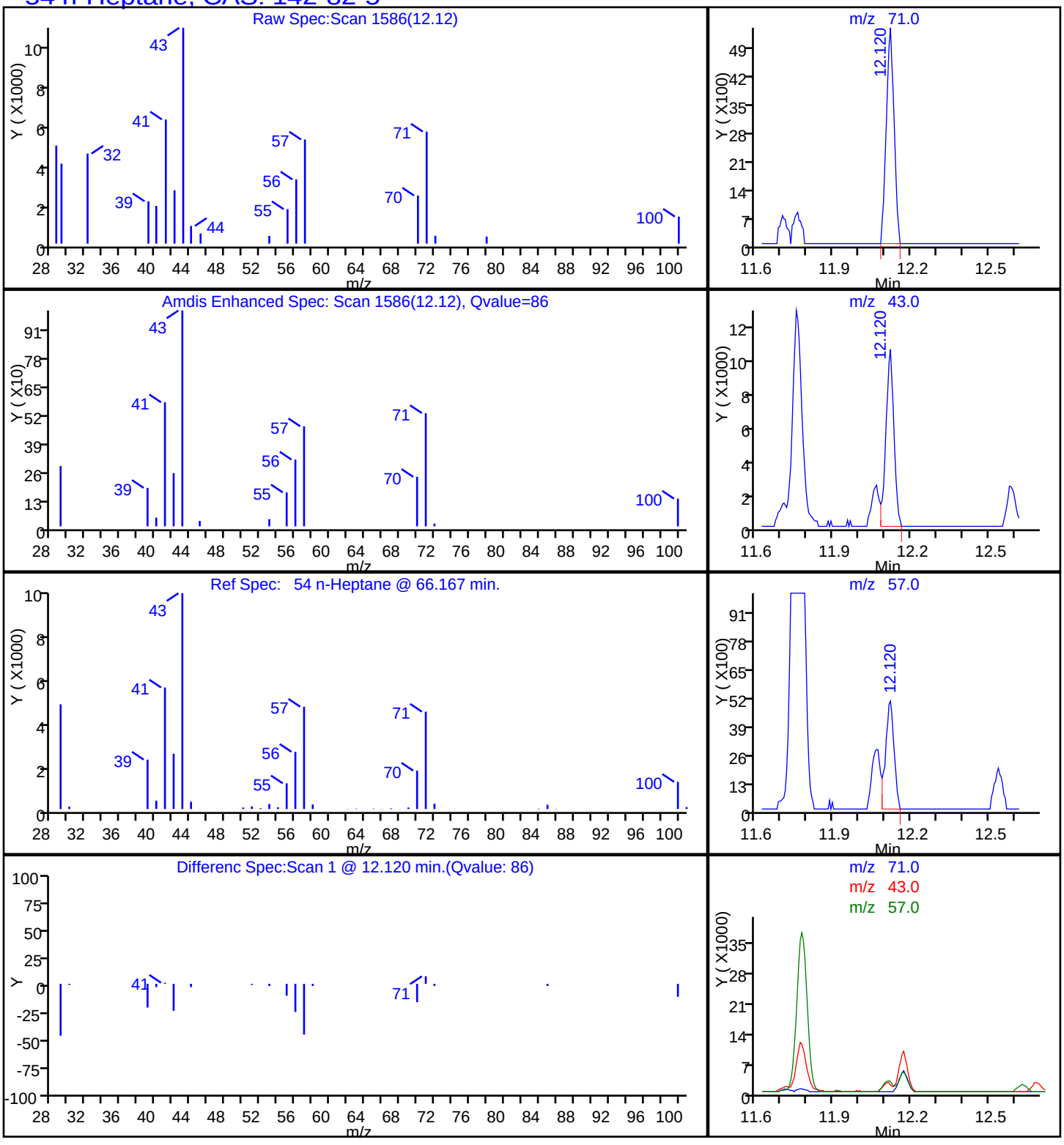
Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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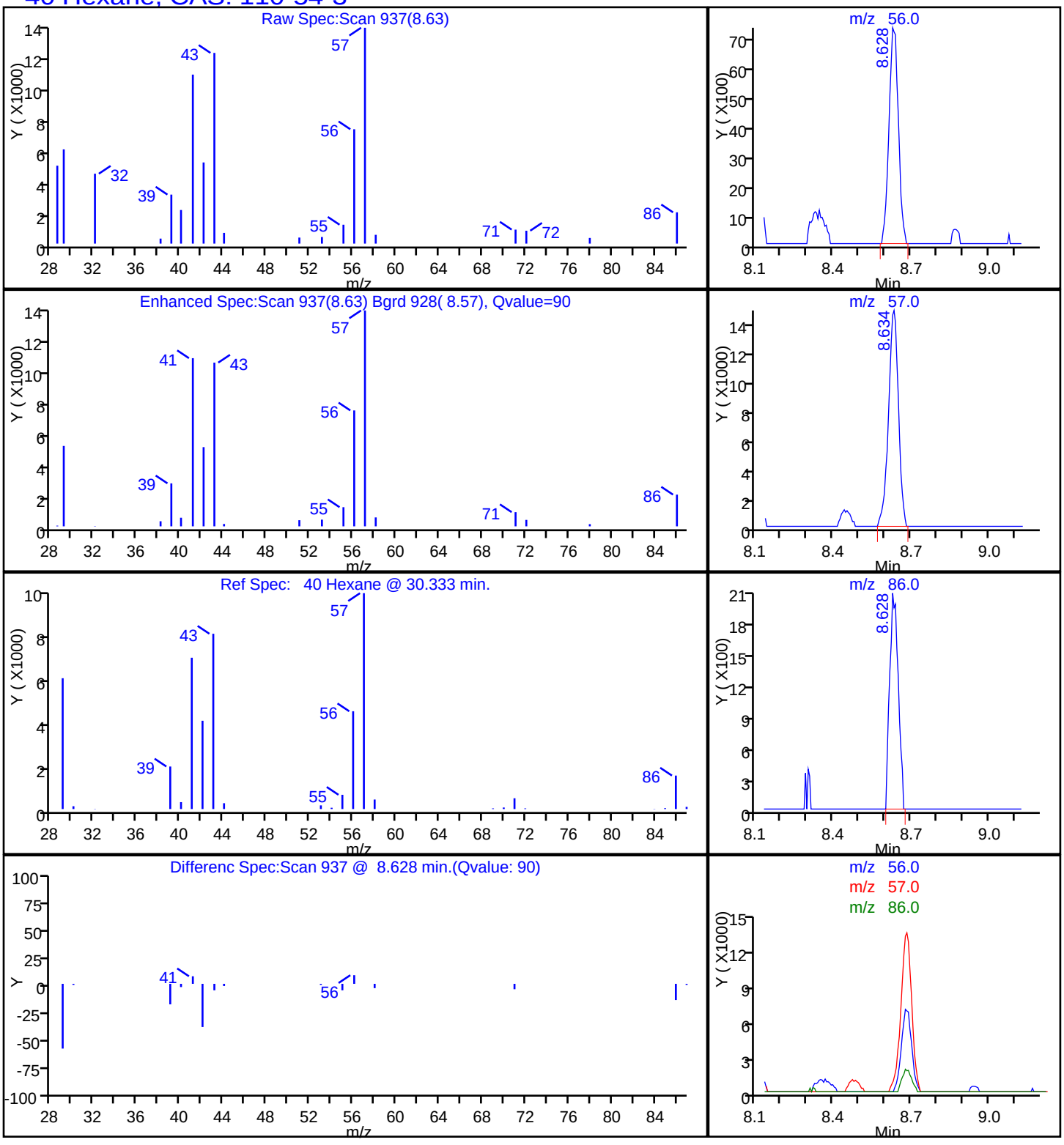
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

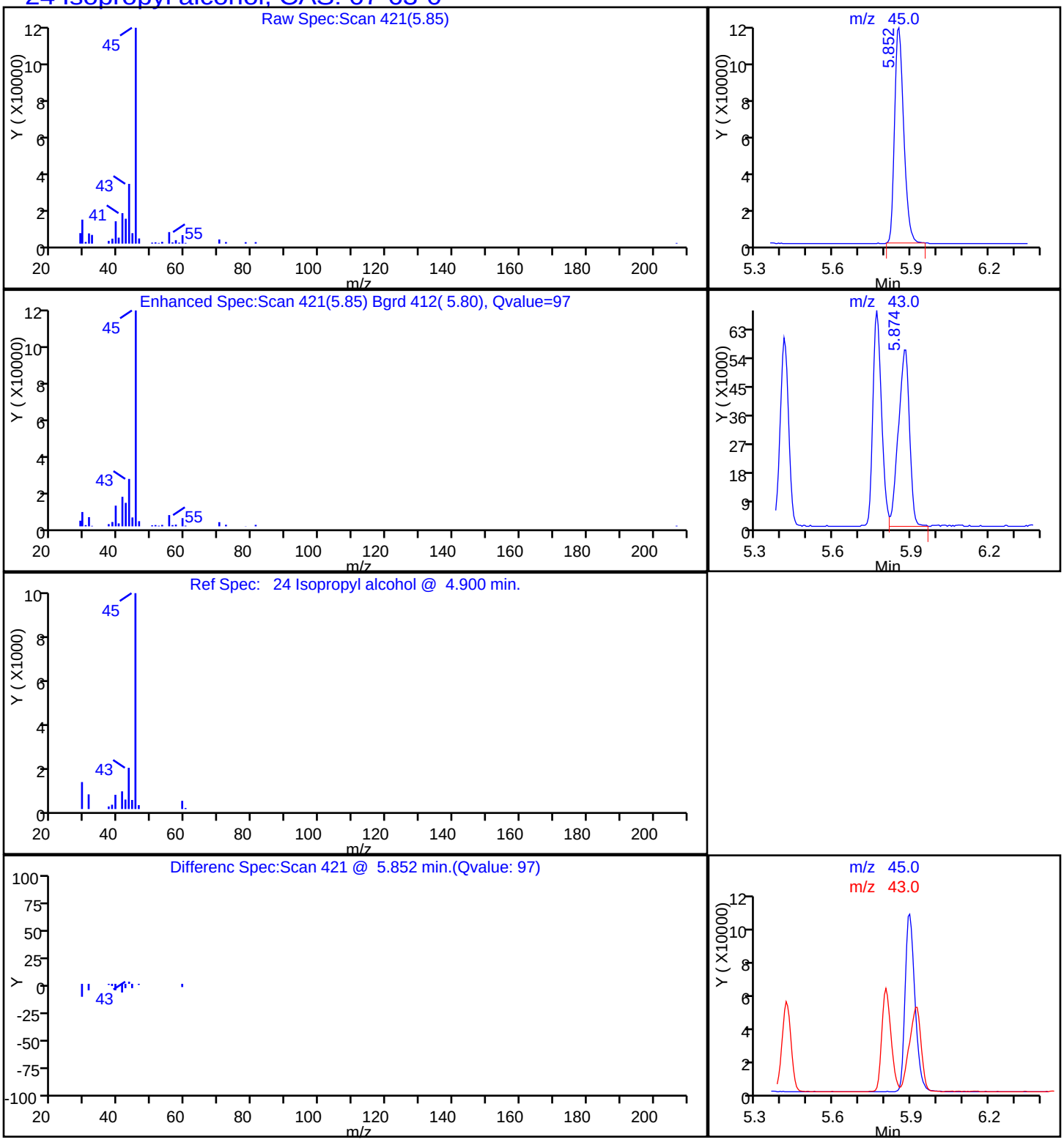
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



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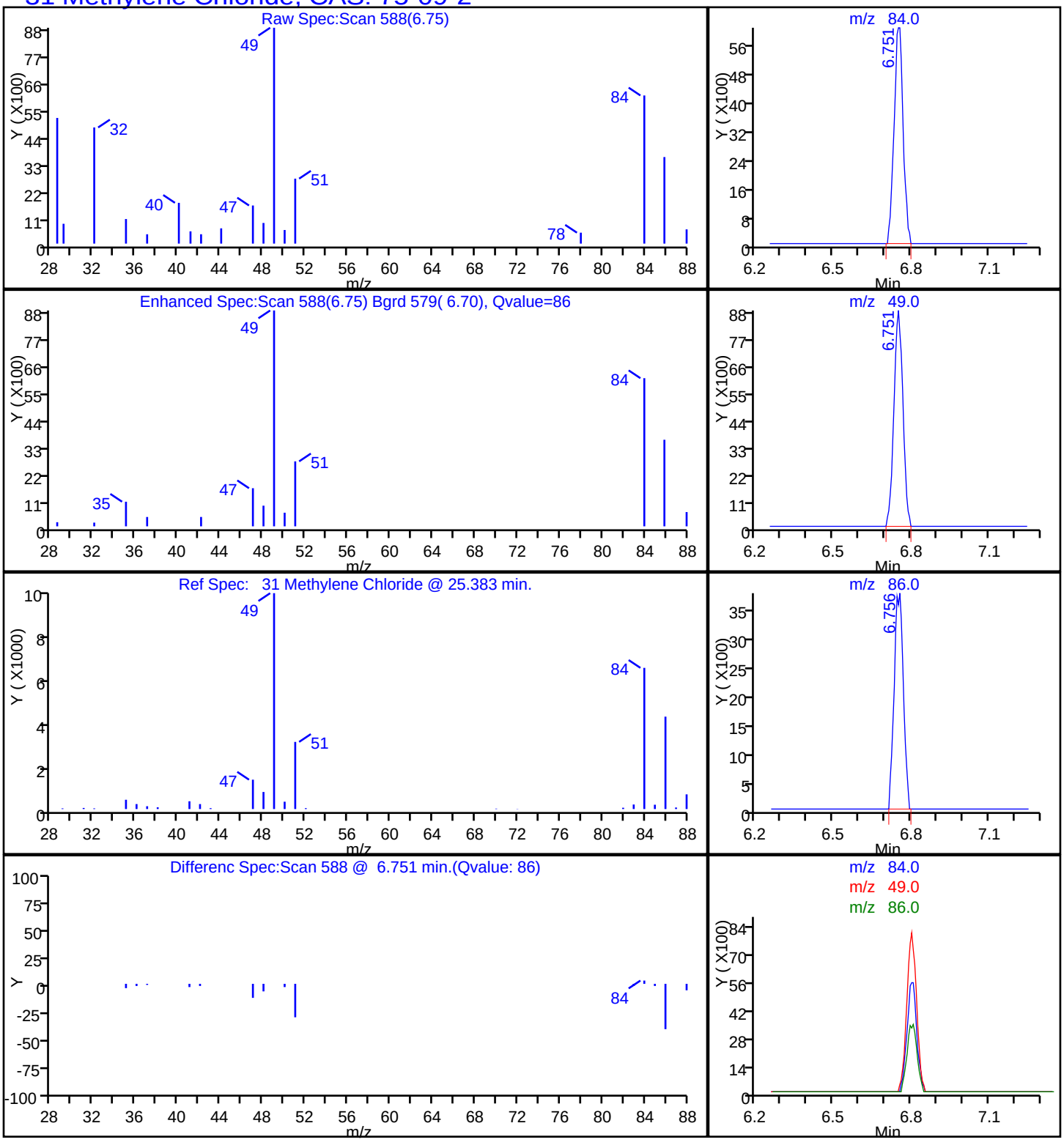
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

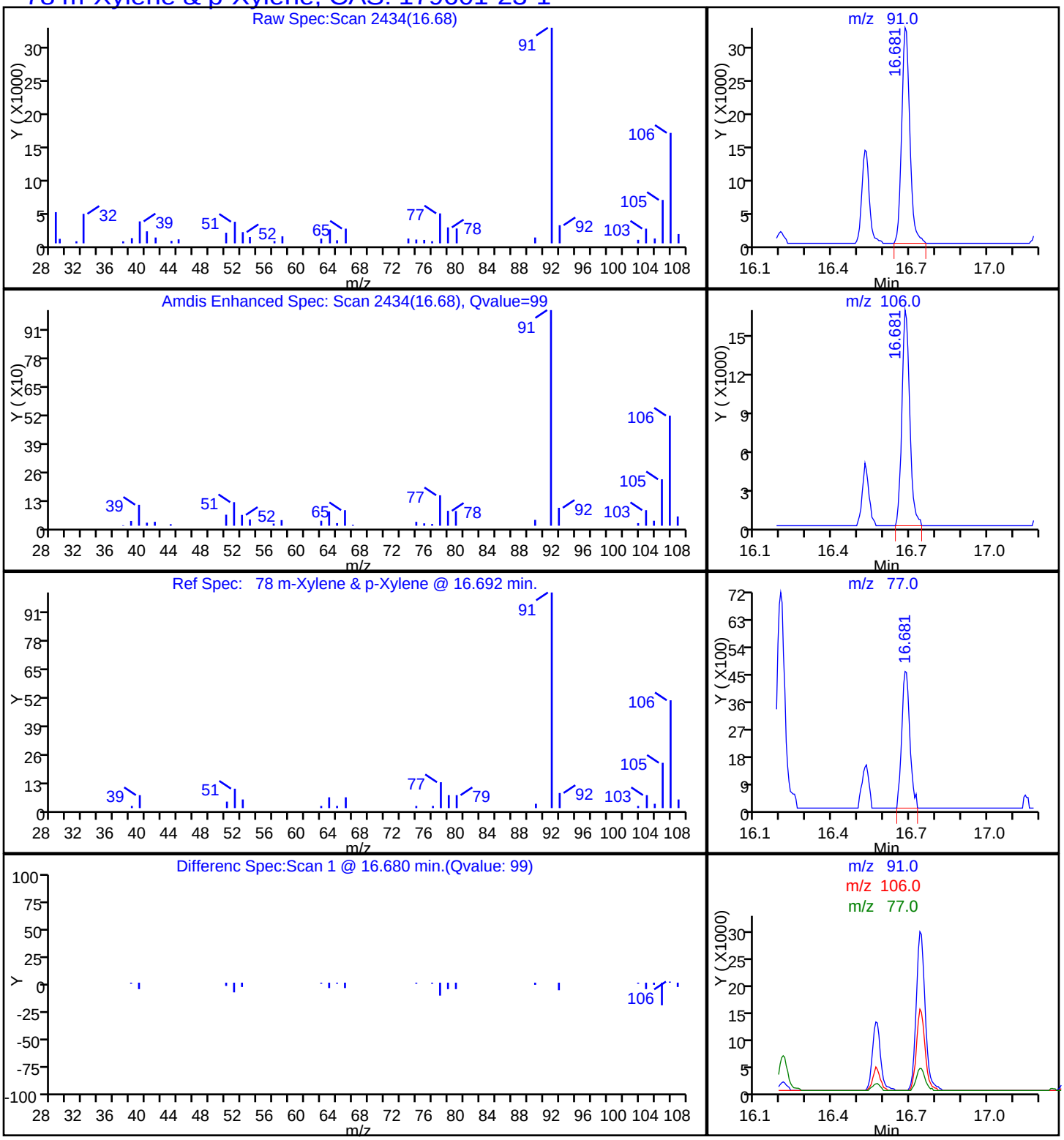


Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D				
Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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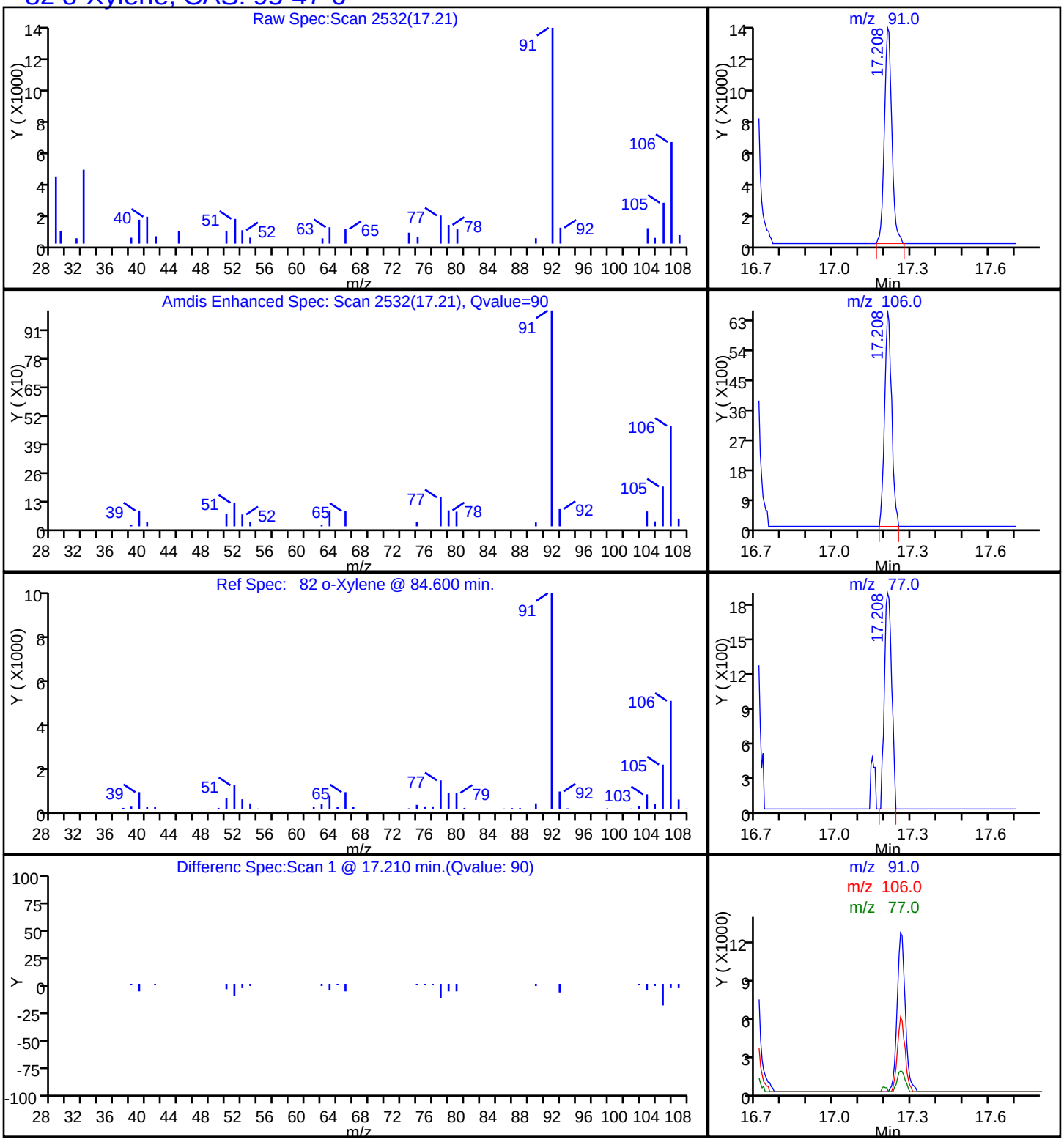
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

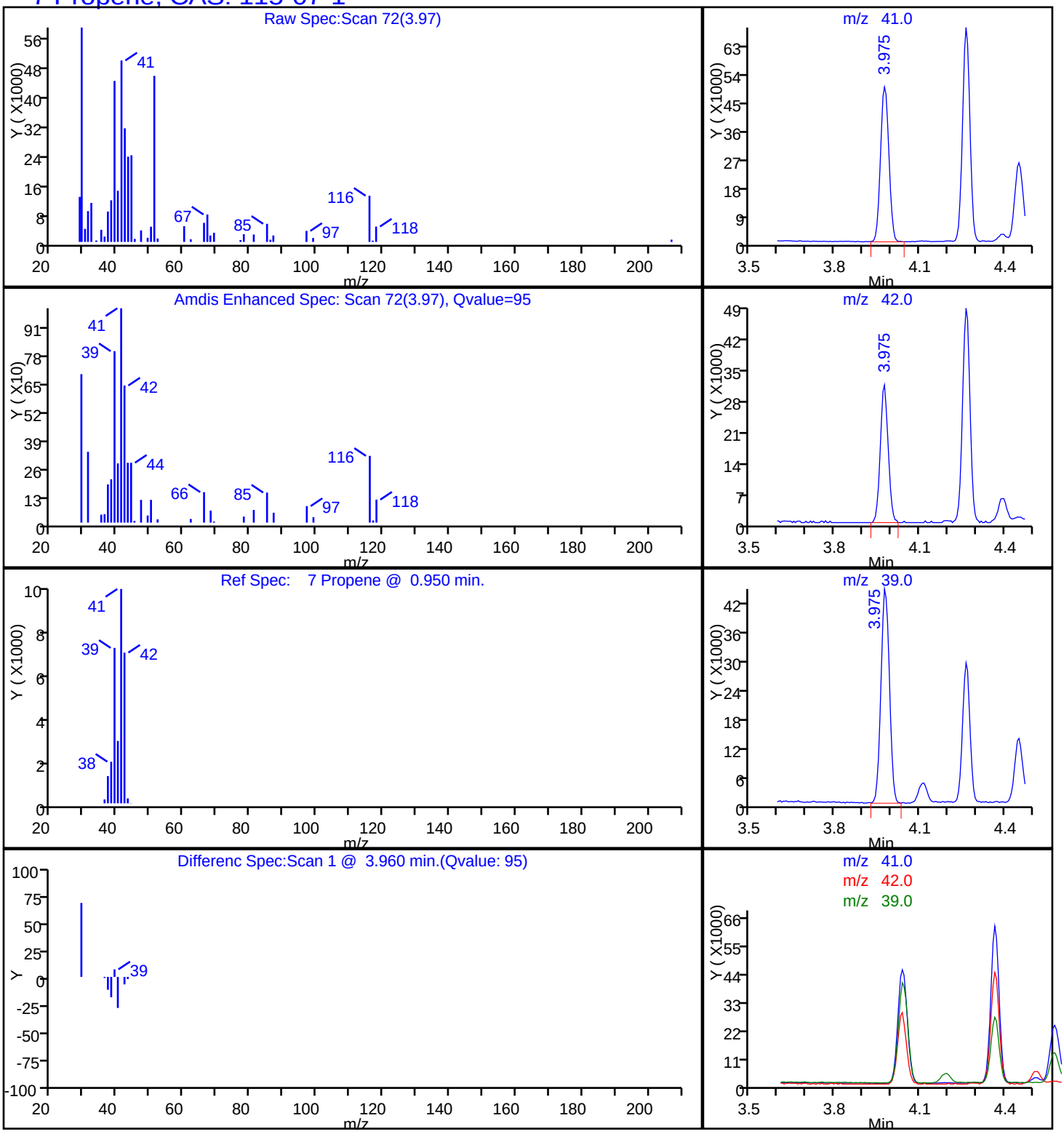
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



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Injection Date: 19-Mar-2014 08:44:30 Instrument ID: MJ

Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13

Client ID: IA1-E14

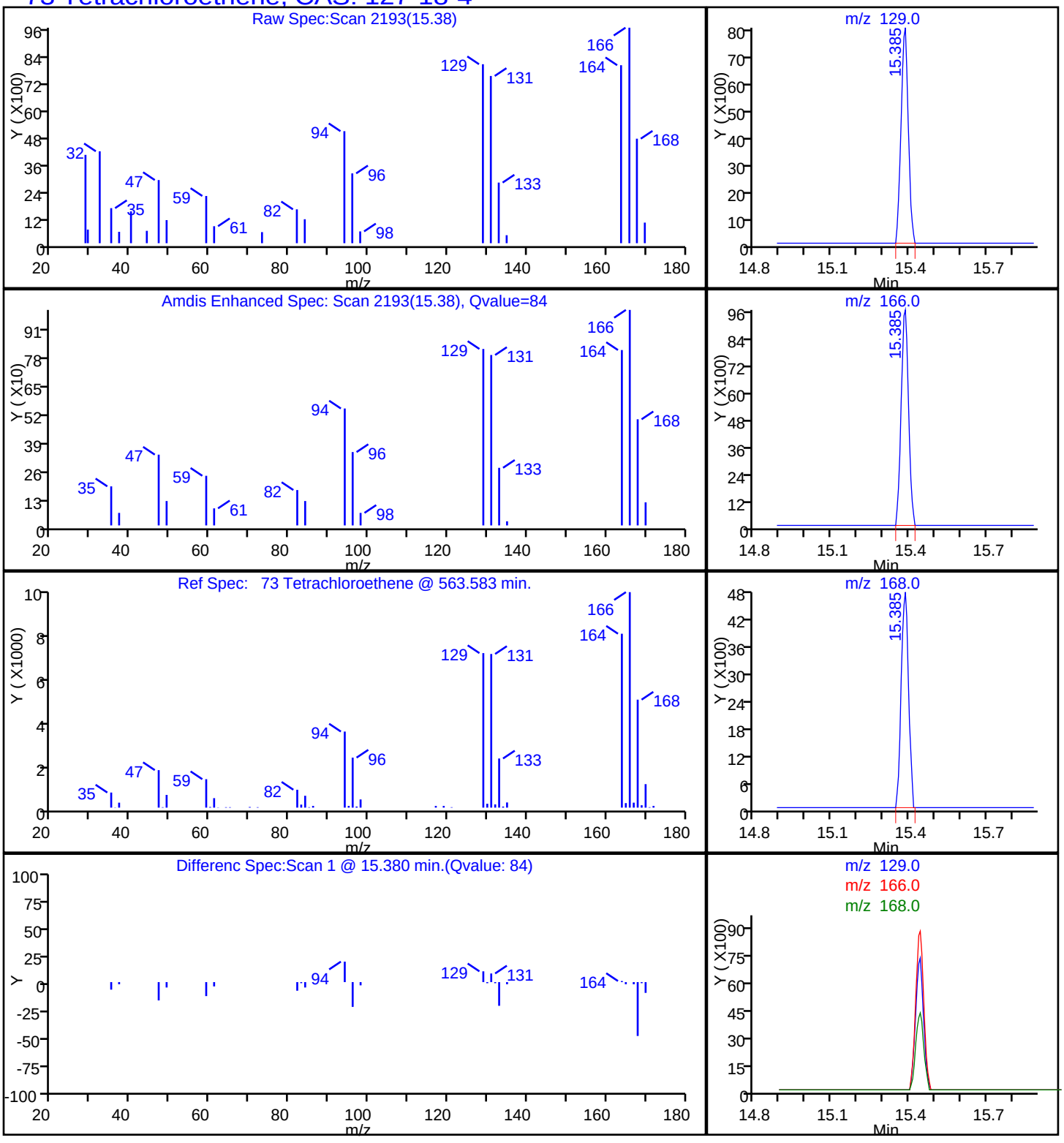
Operator ID: 403648 ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

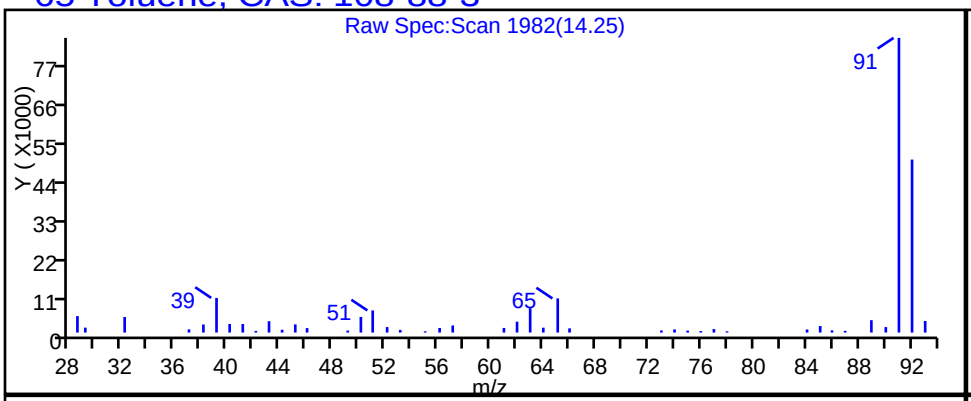


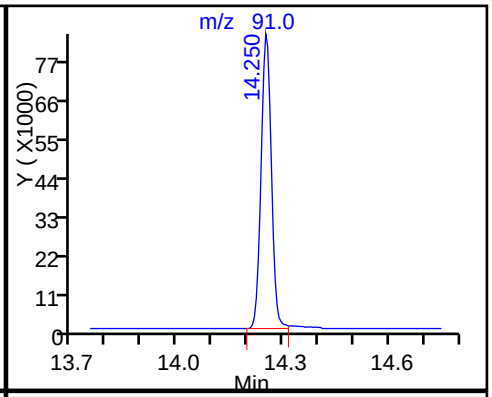
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

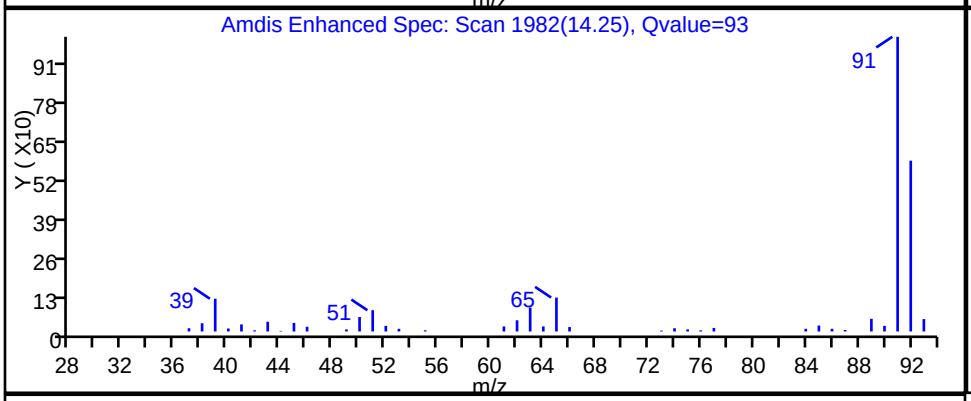
TestAmerica Knoxville

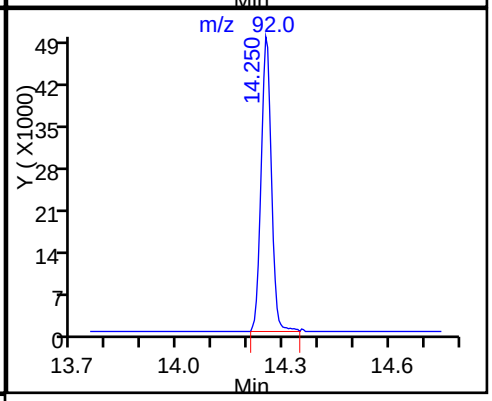
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D				
Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13		
Client ID:	IA1-E14				
Operator ID:	403648	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

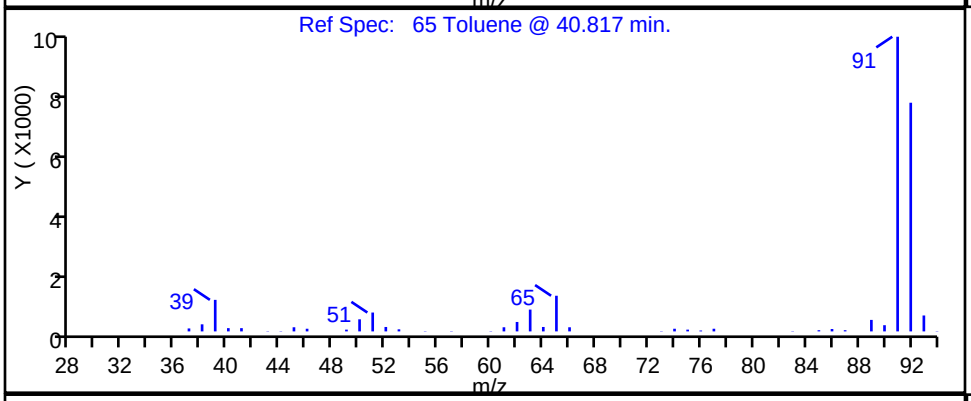
65 Toluene, CAS: 108-88-3

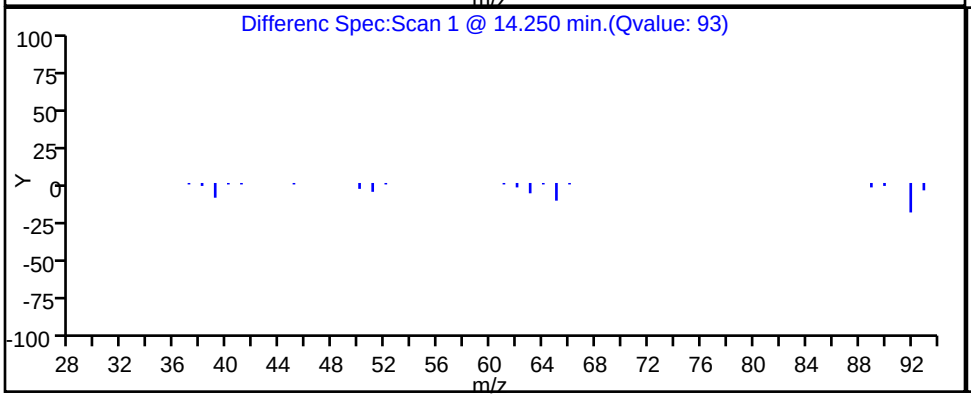


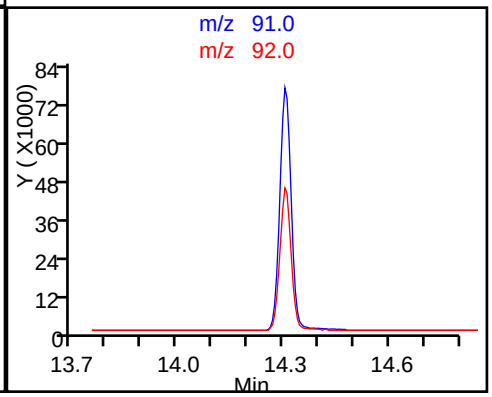












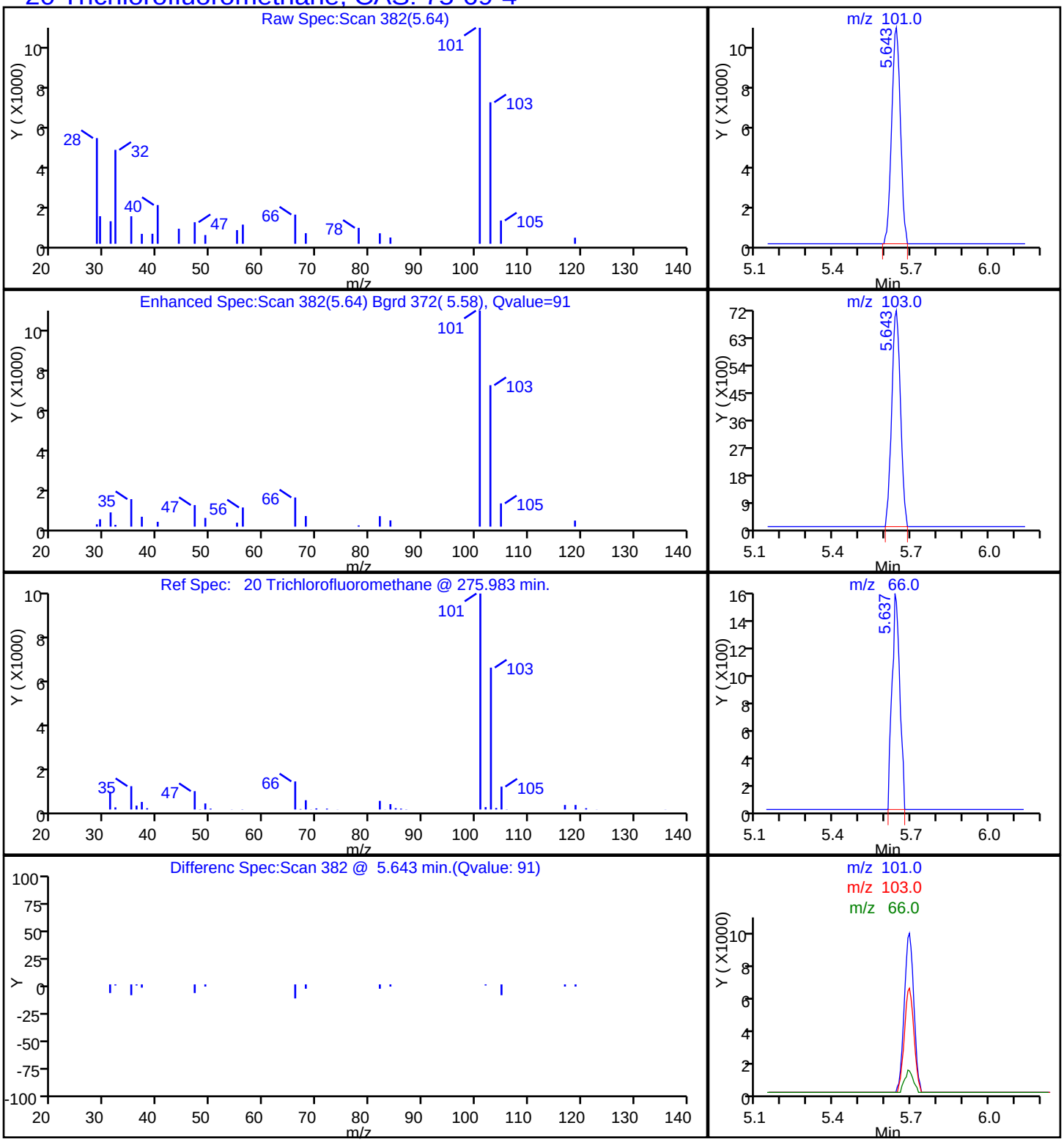
Report Date: 19-Mar-2014 12:46:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date:	19-Mar-2014 08:44:30	Instrument ID:	MJ
Lims ID:	140-1063-A-13	Lab Sample ID:	140-1063-13
Client ID:	IA1-E14		
Operator ID:	403648	ALS Bottle#:	15 Worklist Smp#: 21
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.072	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.062	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.37	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.29	J	0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.052	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	53		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.078	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.17	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.070	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.53		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.50		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.55	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.29	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.70	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.1	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	5.8	J	12	3.3
71-43-2	Benzene	78.11	0.78		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	100		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.32	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.61	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.75	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.30	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	3.6		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14

Matrix: Air Lab File ID: JC18P201.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:53

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D
Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14
Client ID: IA2-E14
Sample Type: Client
Inject. Date: 18-Mar-2014 19:12:30 ALS Bottle#: 1 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-14
Misc. Info.: J031814,TO15,,140-0000527-022
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:55:39 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: liul Date: 20-Mar-2014 14:54:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.388	-0.005	90	356682	4.00	
* 2 1,4-Difluorobenzene	114	11.540	11.539	0.001	94	1658549	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1401393	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.817	0.001	91	957721	3.86	
8 Dichlorodifluoromethane	85	4.036	4.030	0.006	96	64535	0.1827	
9 Chloromethane	52	4.235	4.229	0.006	97	8188	0.2040	
17 Ethanol	31	5.128	5.116	0.012	95	609169	21.3	
19 2-Methylbutane	43	5.418	5.407	0.011	88	22679	0.1497	
20 Trichlorofluoromethane	101	5.650	5.644	0.006	85	26009	0.0838	
23 Acetone	58	5.779	5.767	0.012	91	49426	0.9748	
24 Isopropyl alcohol	45	5.870	5.848	0.022	95	64798	0.4840	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.591	6.580	0.011	63	6181	0.0287	
31 Methylene Chloride	84	6.758	6.757	0.001	85	13992	0.1466	
39 2-Butanone (MEK)	72	8.603	8.586	0.017	77	3219	0.0953	
40 Hexane	56	8.641	8.635	0.006	88	6606	0.0689	
43 Chloroform	83	9.394	9.393	0.001	3	4331	0.0208	
48 Benzene	78	11.024	11.023	0.001	90	27727	0.0974	
50 Carbon tetrachloride	117	11.056	11.050	0.006	89	6574	0.0280	
53 Isooctane	57	11.761	11.760	0.001	73	11976	0.0246	
54 n-Heptane	71	12.121	12.120	0.001	80	3139	0.0312	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.368	0.012	86	19937	0.1147	
65 Toluene	91	14.252	14.256	-0.004	91	51707	0.1989	
73 Tetrachloroethene	129	15.381	15.386	-0.005	89	25696	0.2122	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	89	16075	0.0694	
82 o-Xylene	91	17.216	17.215	0.001	39	6588	0.0280	

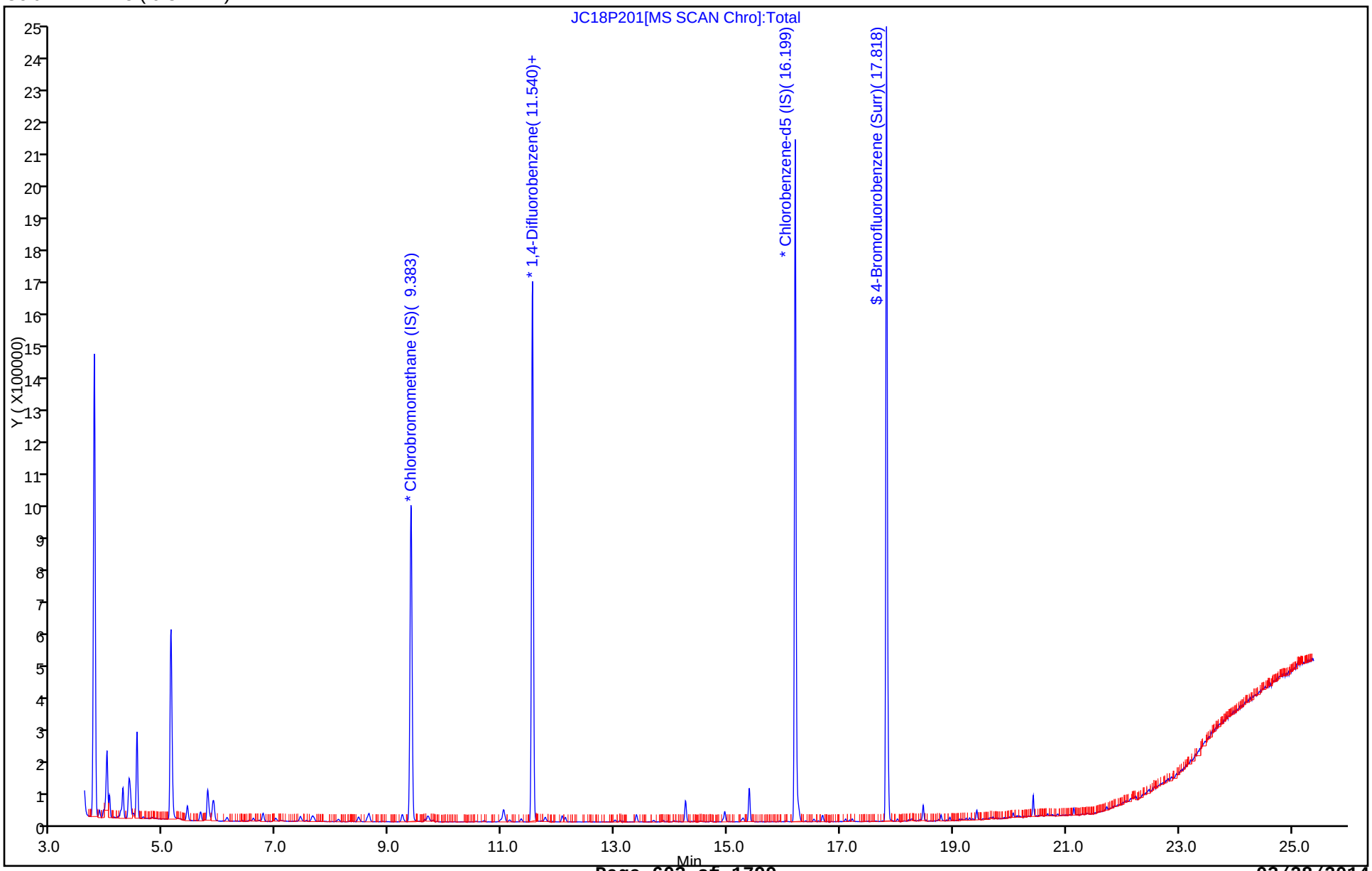
Report Date: 20-Mar-2014 14:55:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14	Worklist Smp#:	22
Client ID:	IA2-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14

Client ID: IA2-E14

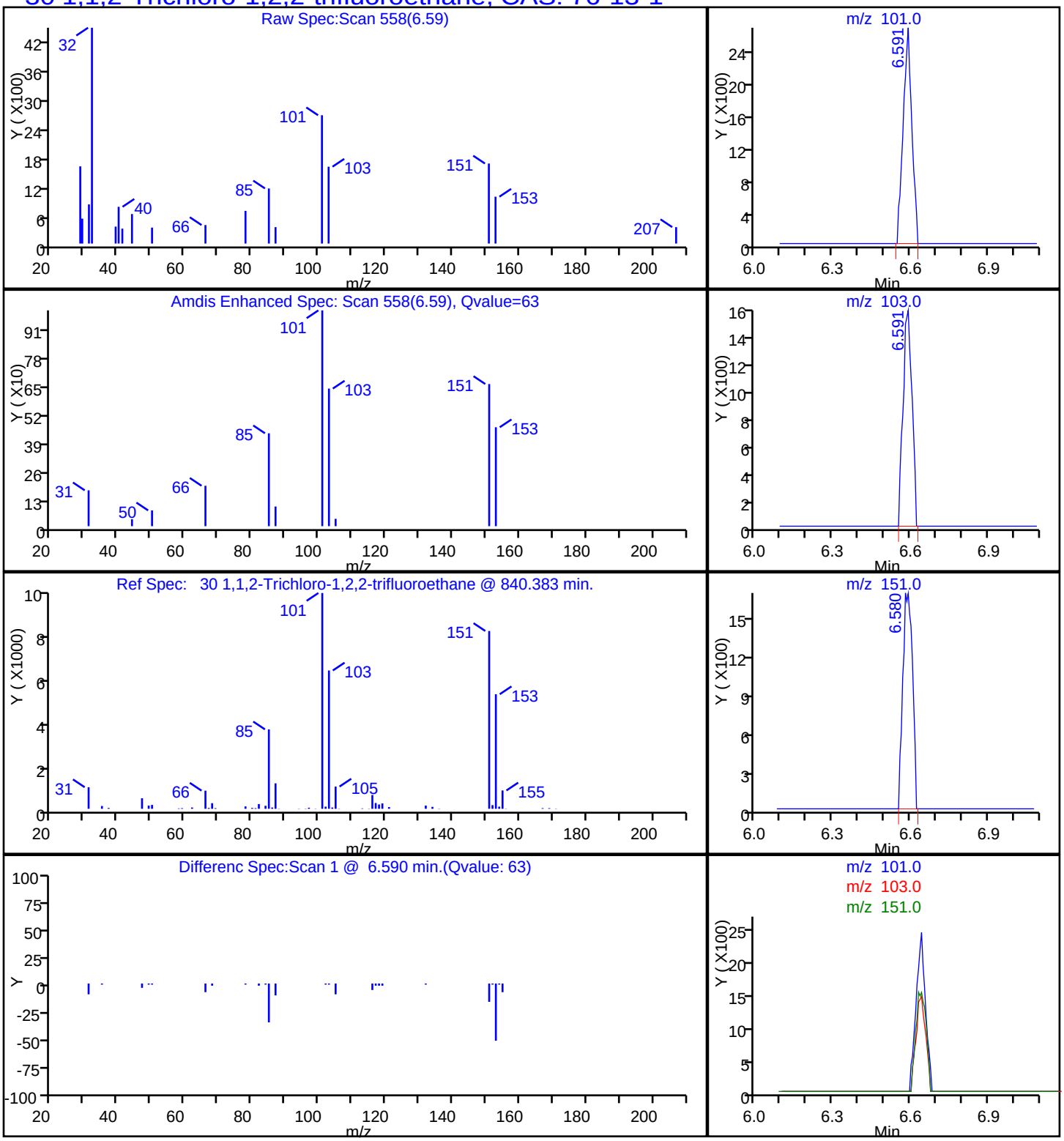
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14

Client ID: IA2-E14

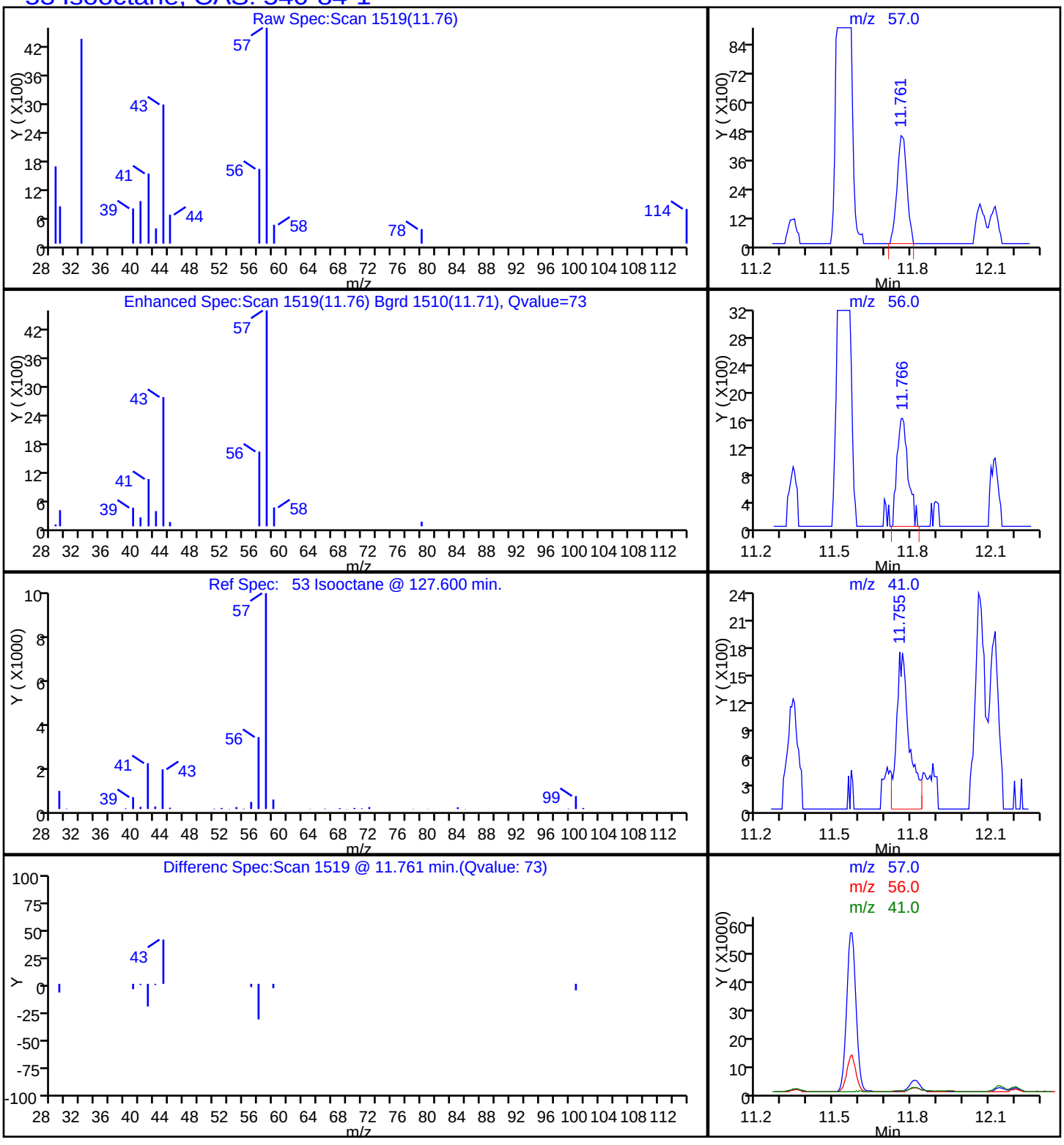
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14

Client ID: IA2-E14

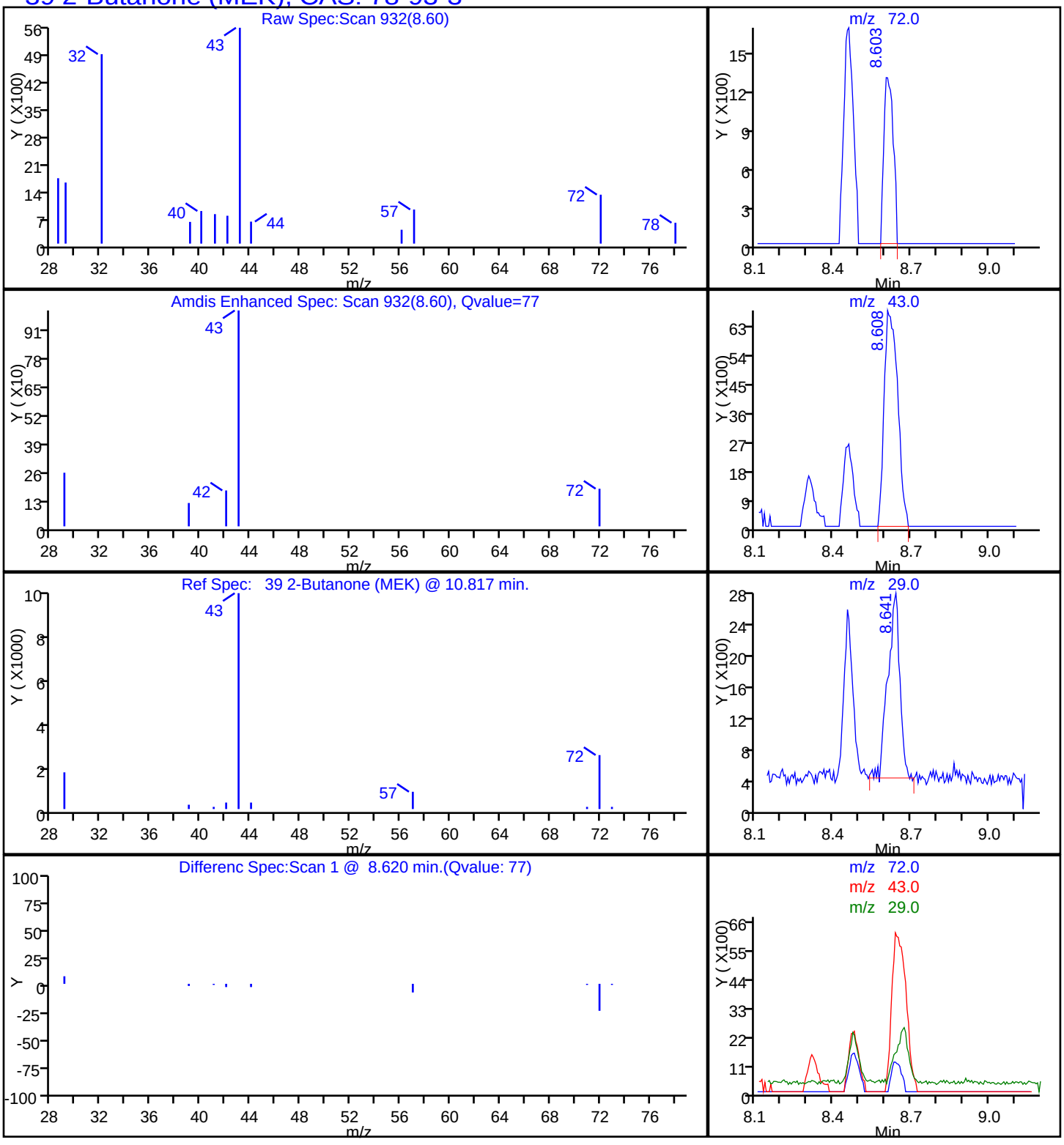
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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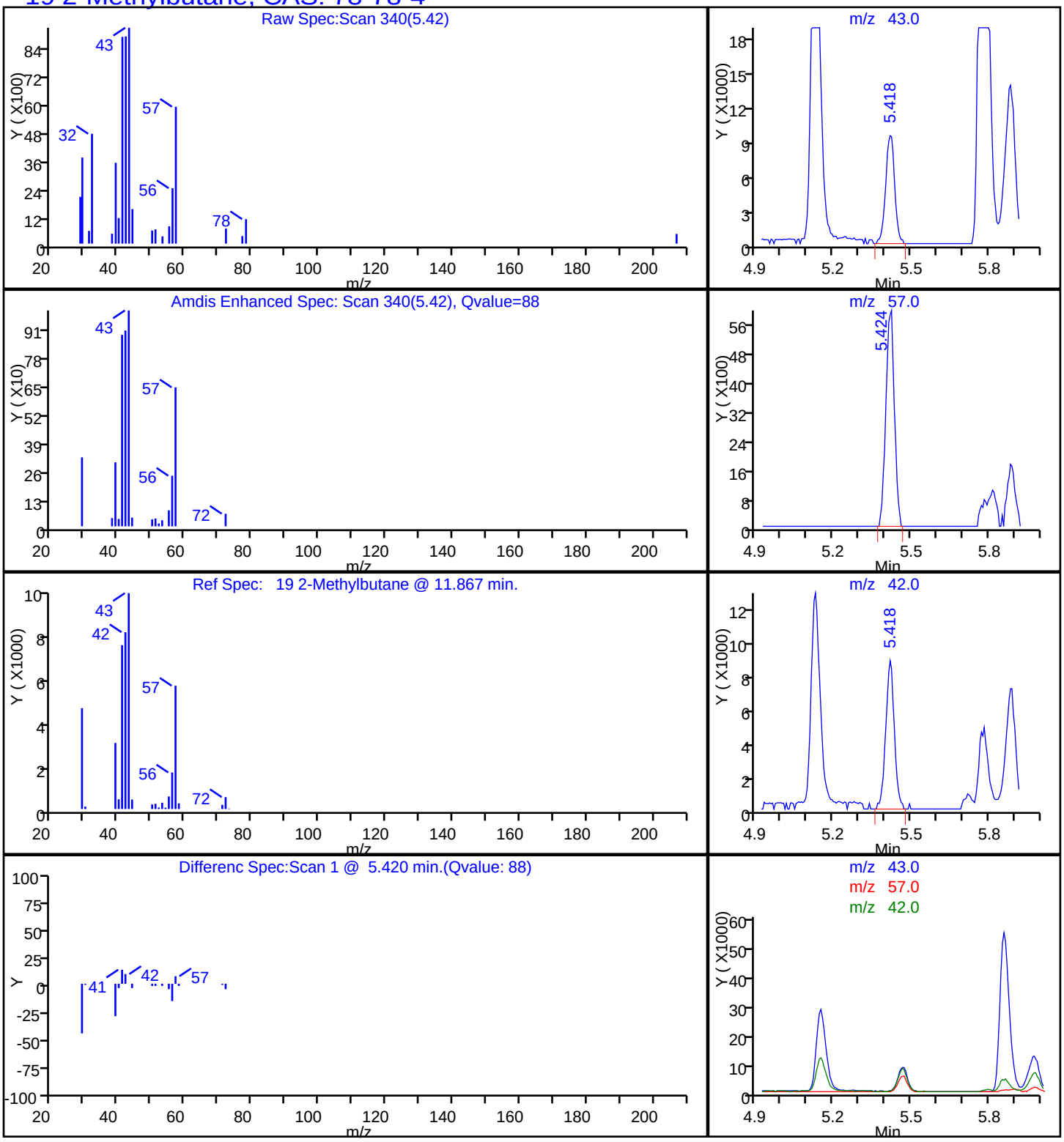
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14

Client ID: IA2-E14

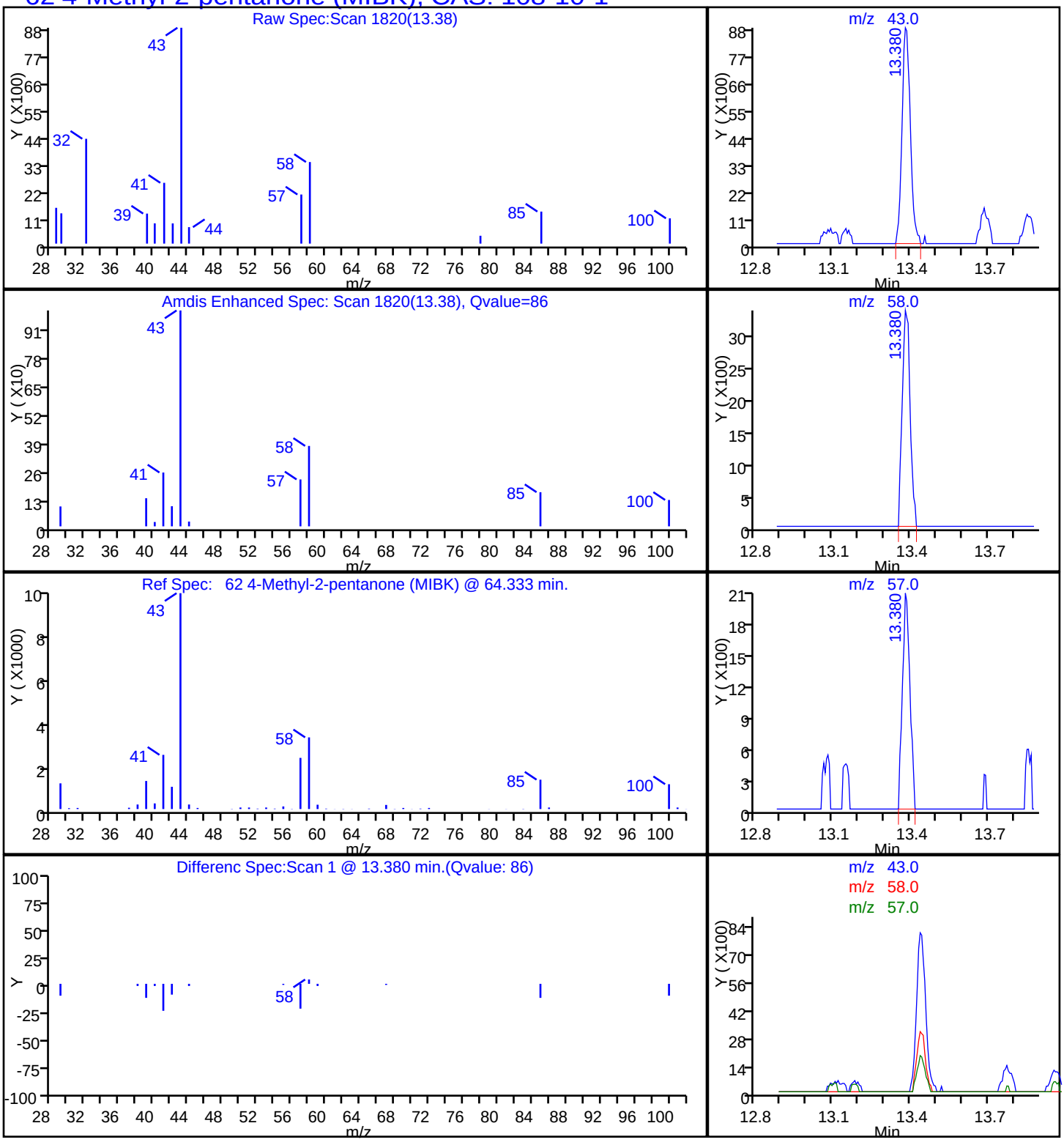
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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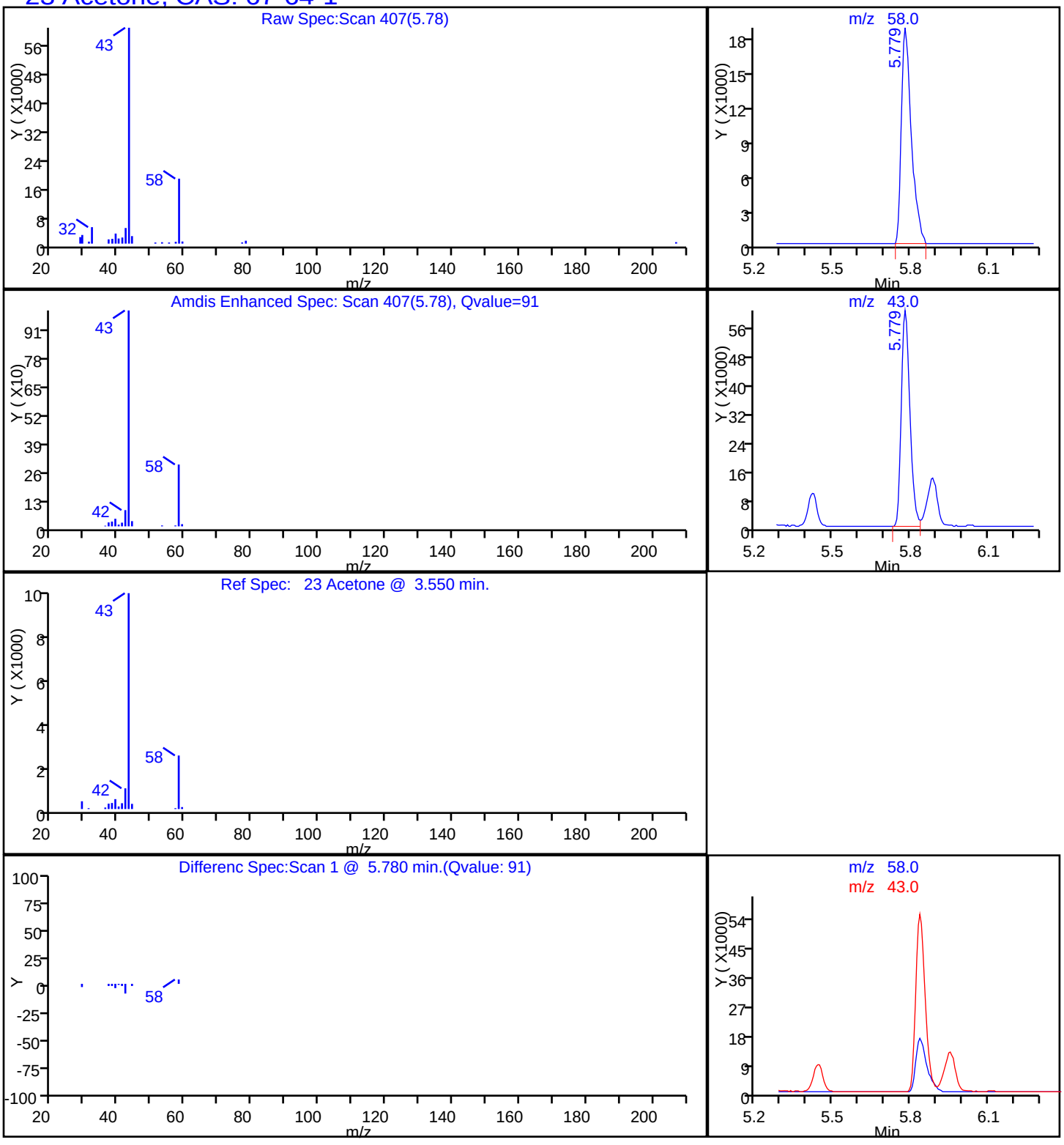
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



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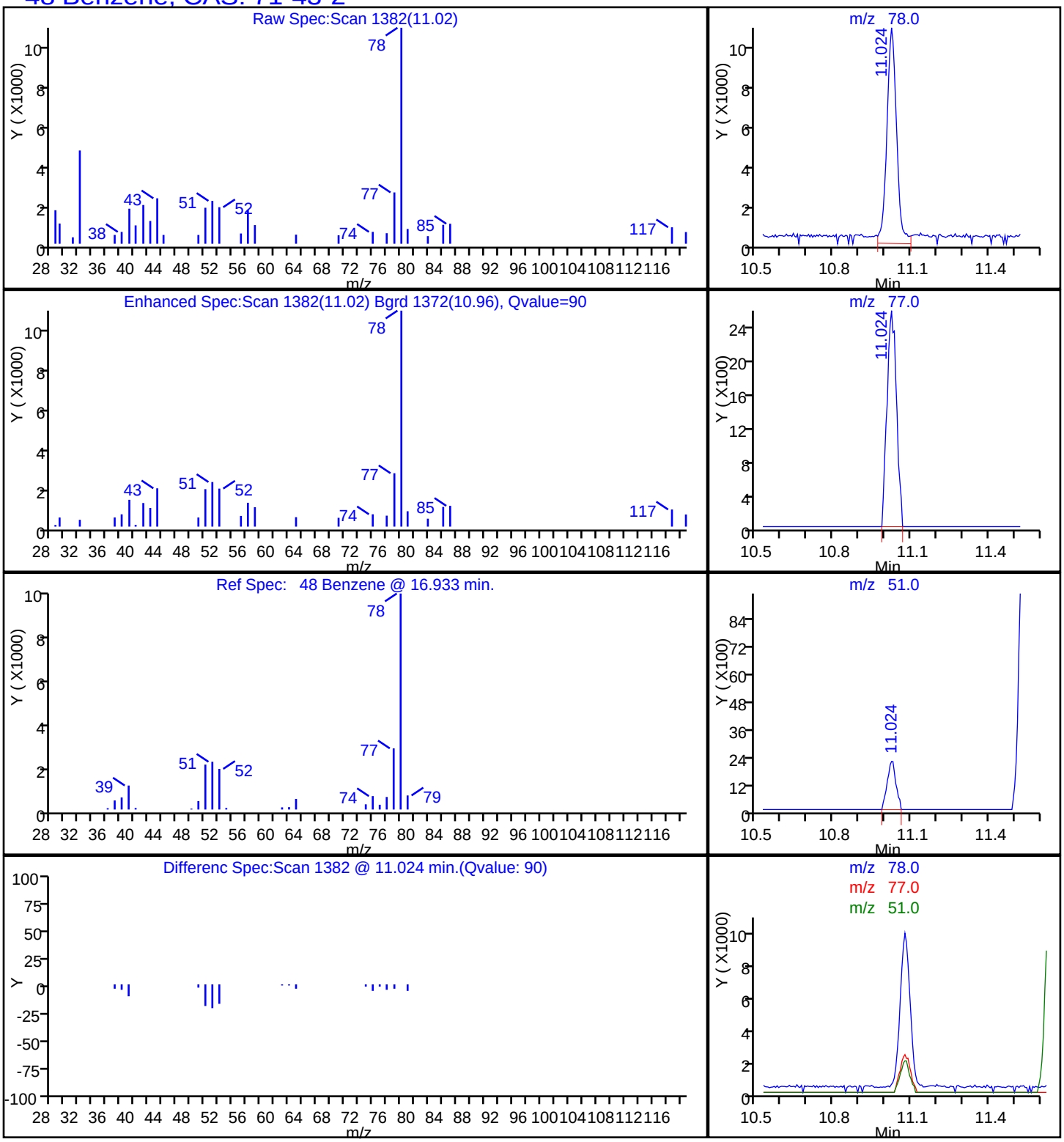
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14

Client ID: IA2-E14

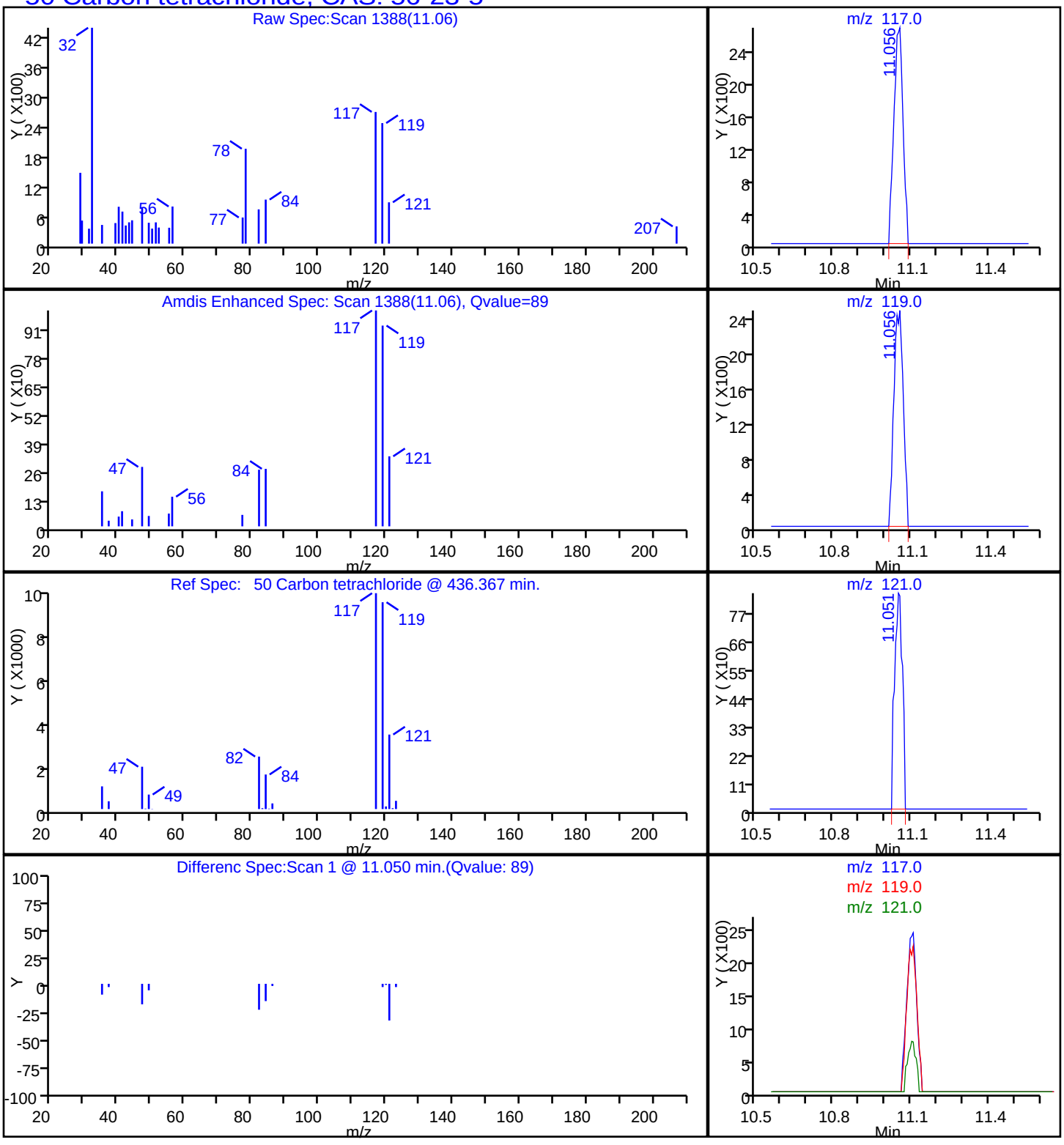
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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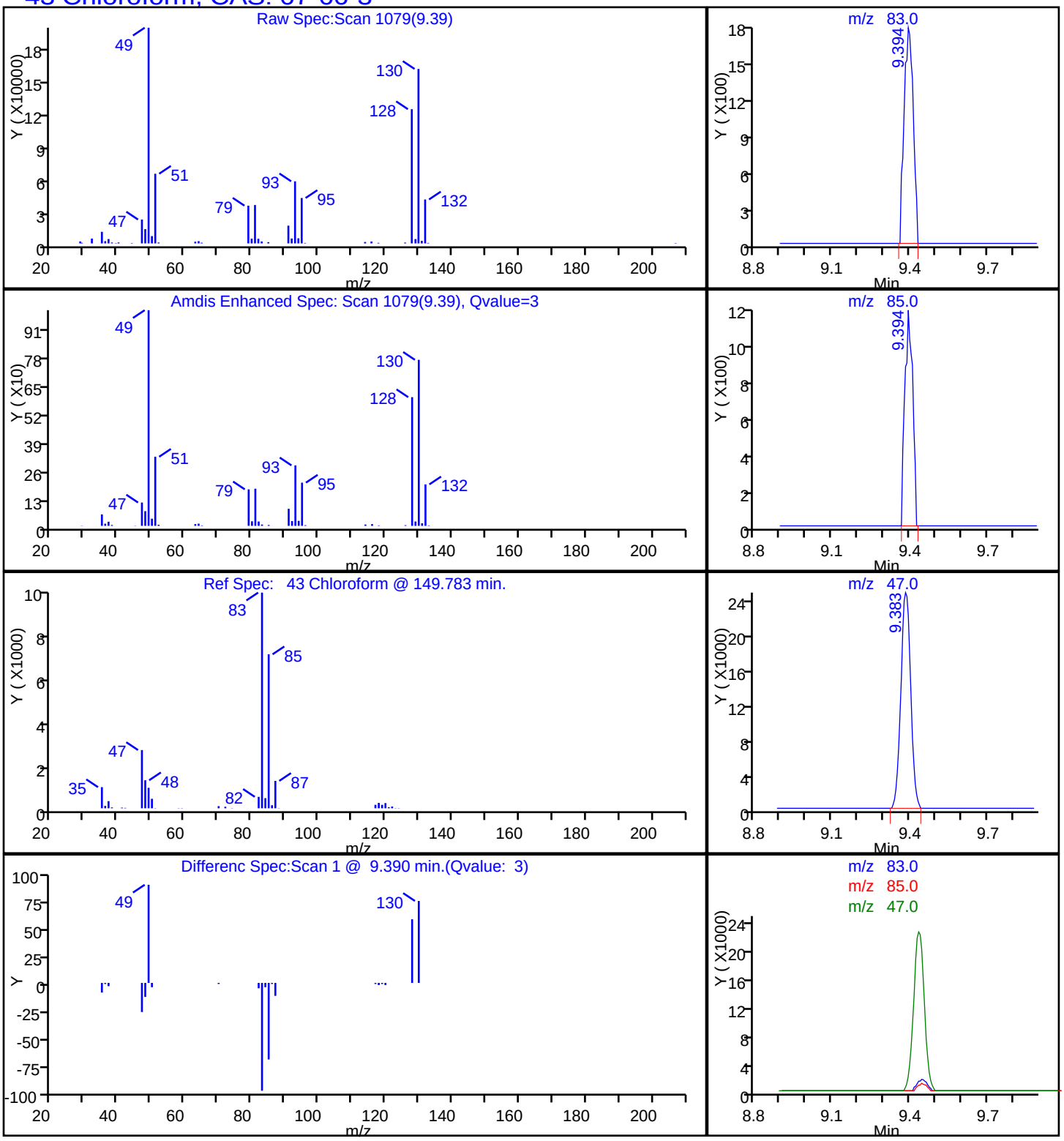
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



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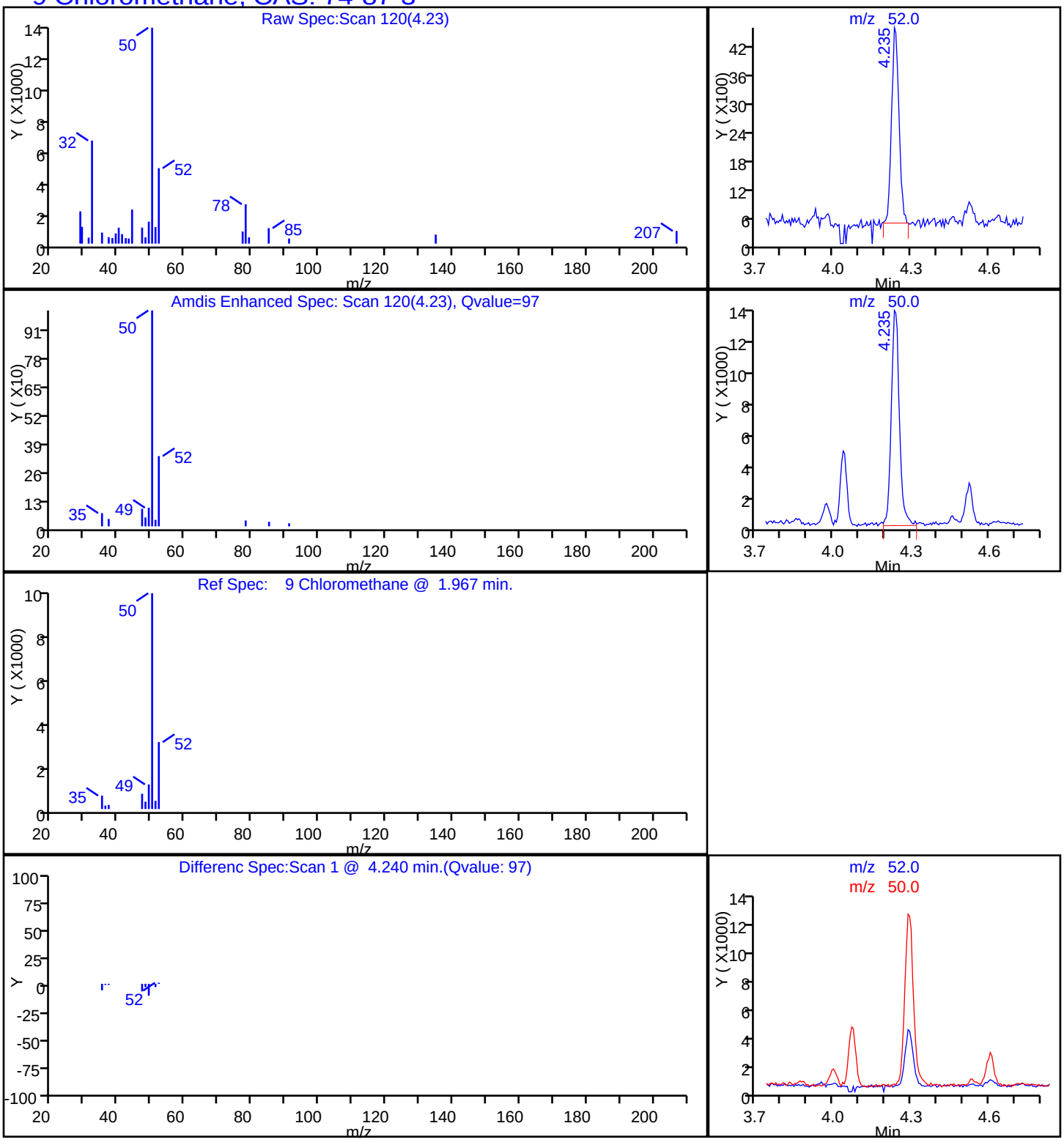
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14
Client ID:	IA2-E14		
Operator ID:	403648	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



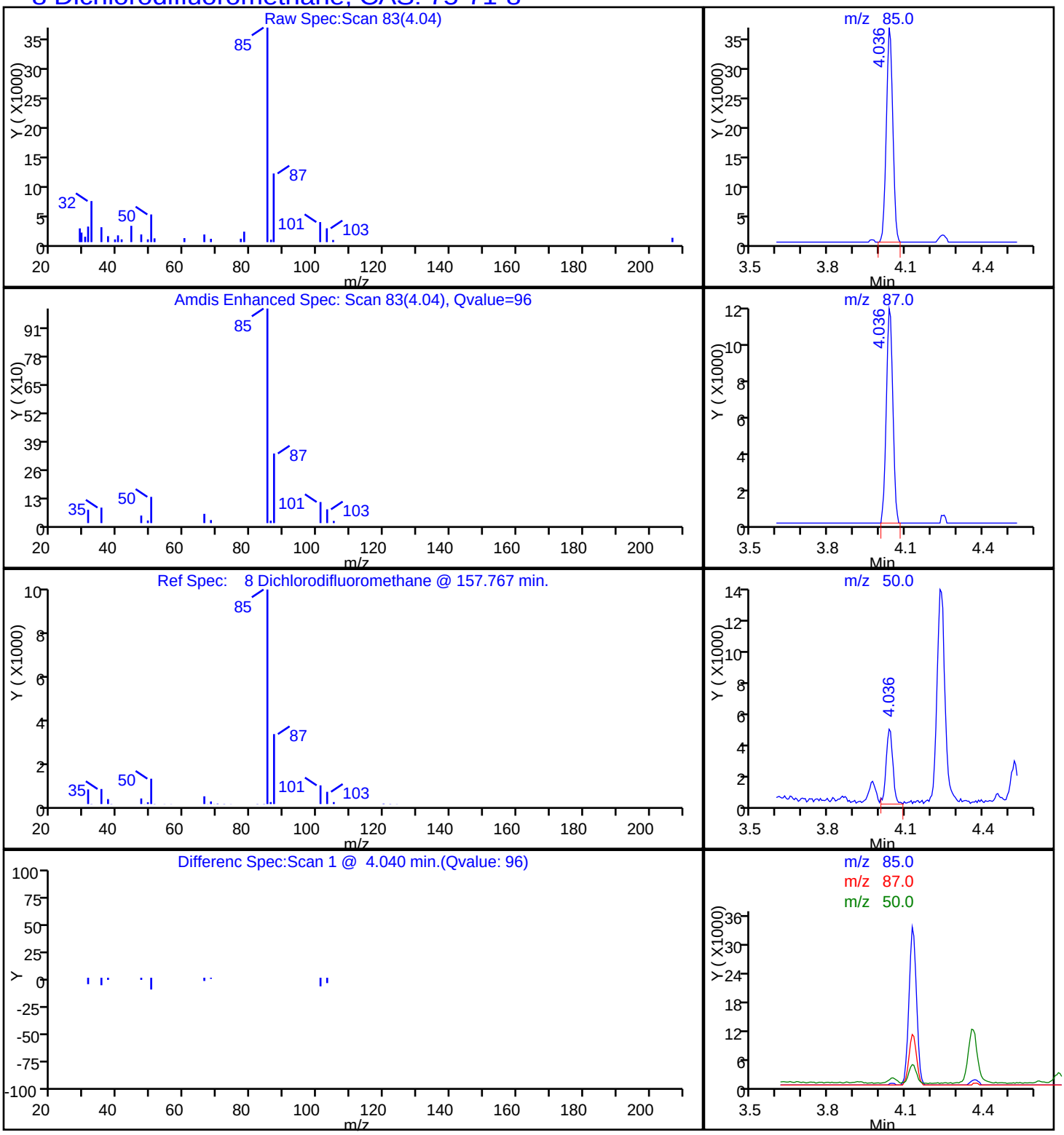
Report Date: 20-Mar-2014 14:55:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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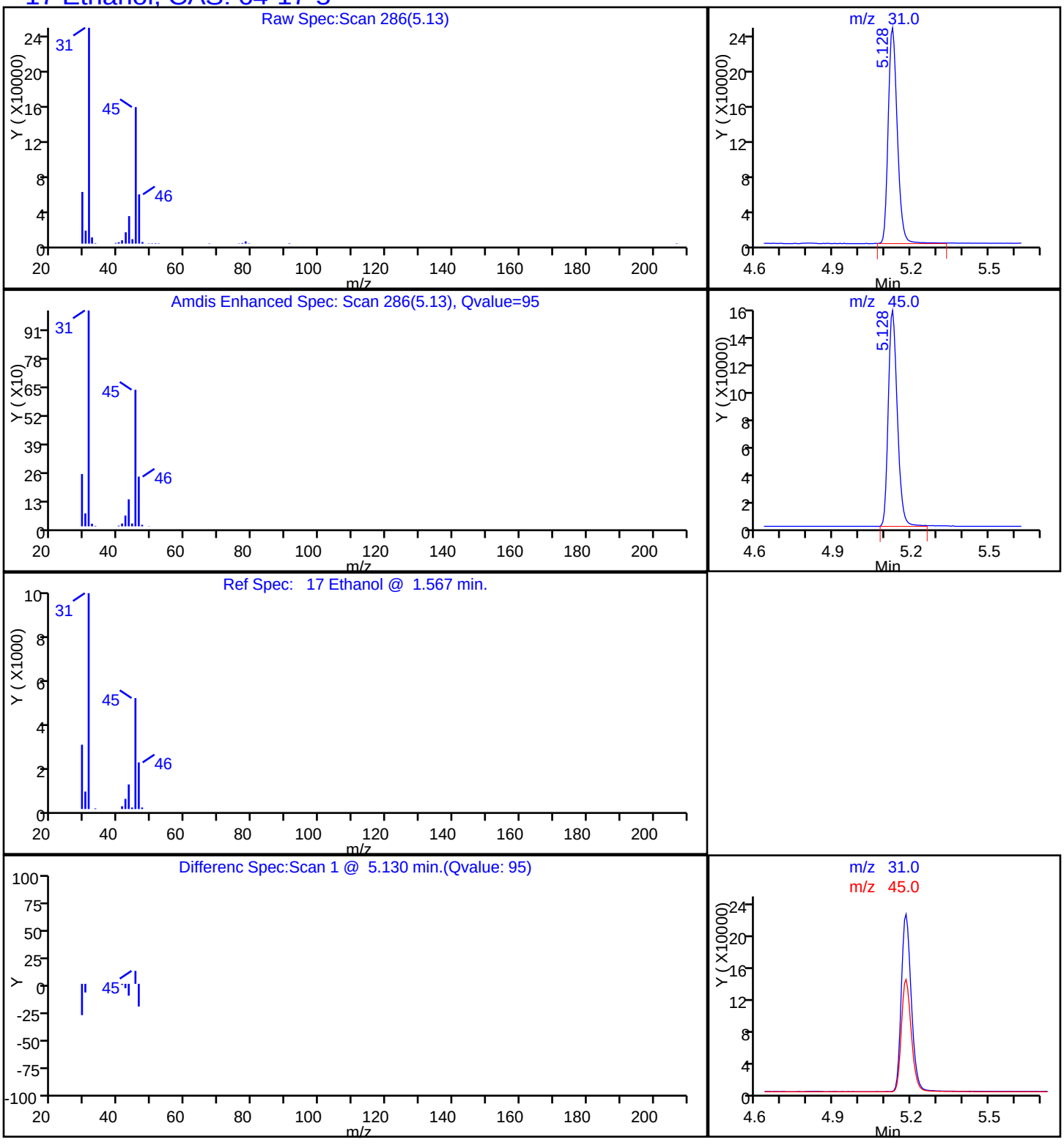
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D				
Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



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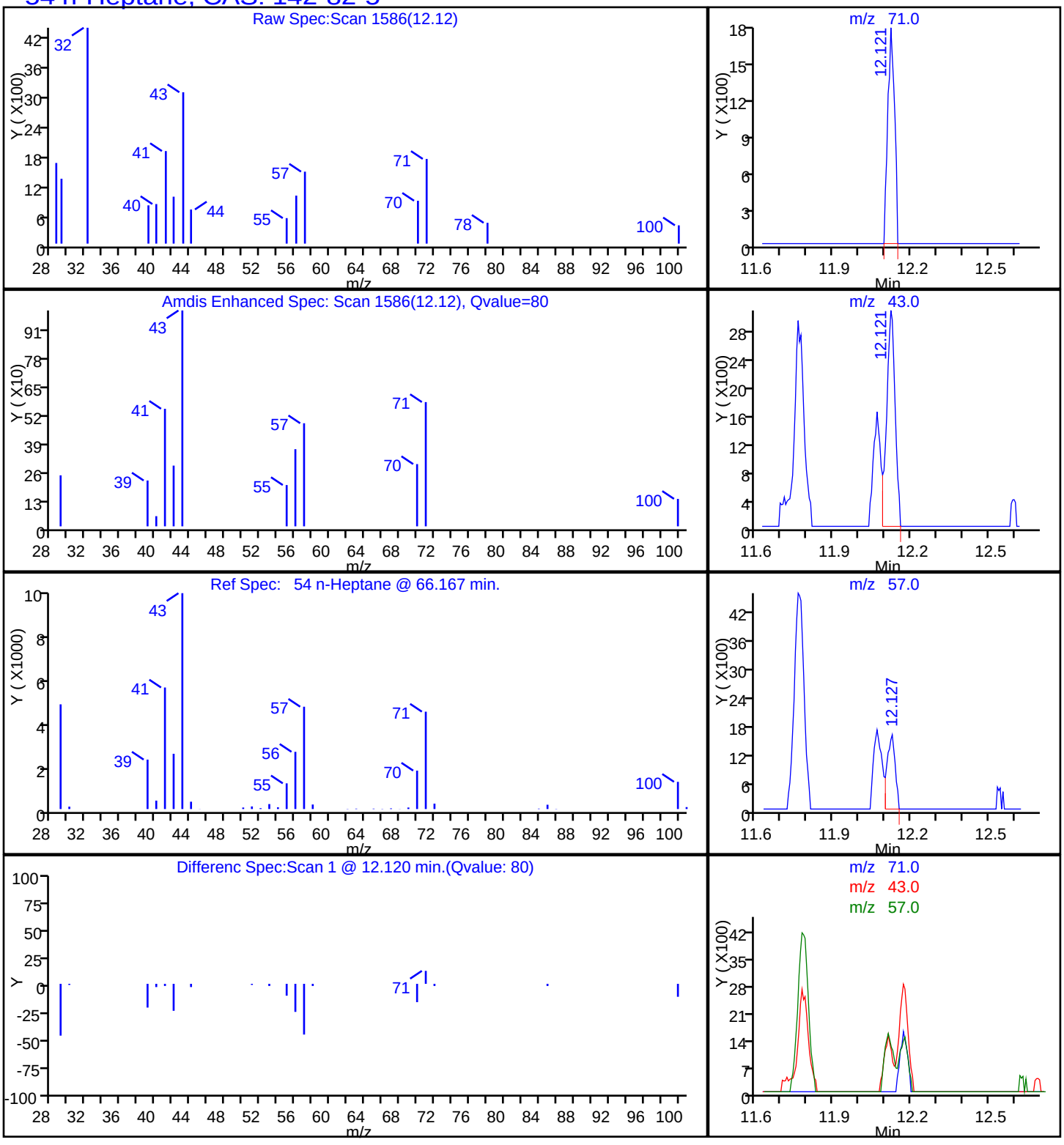
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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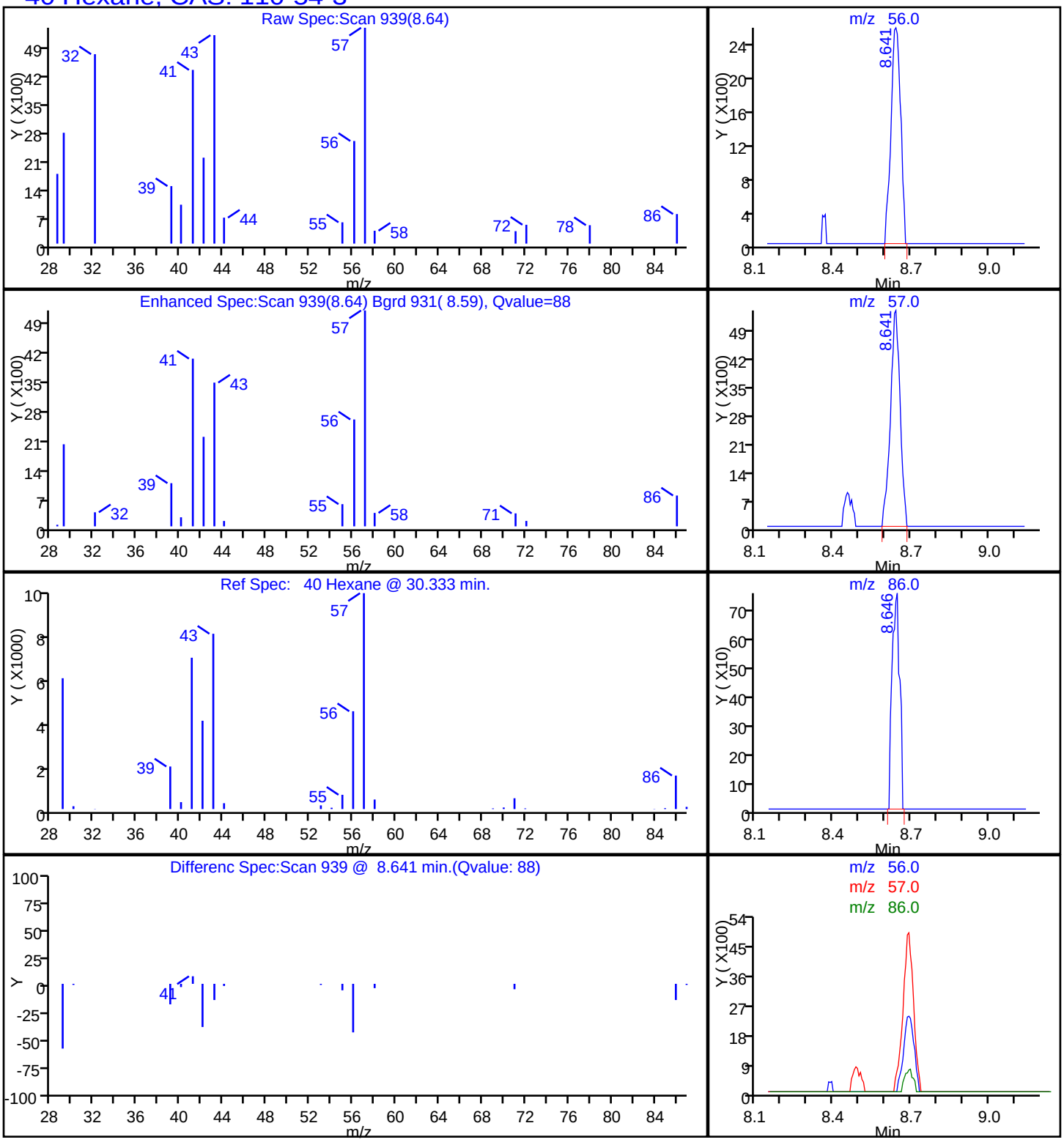
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14
Client ID:	IA2-E14		
Operator ID:	403648	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



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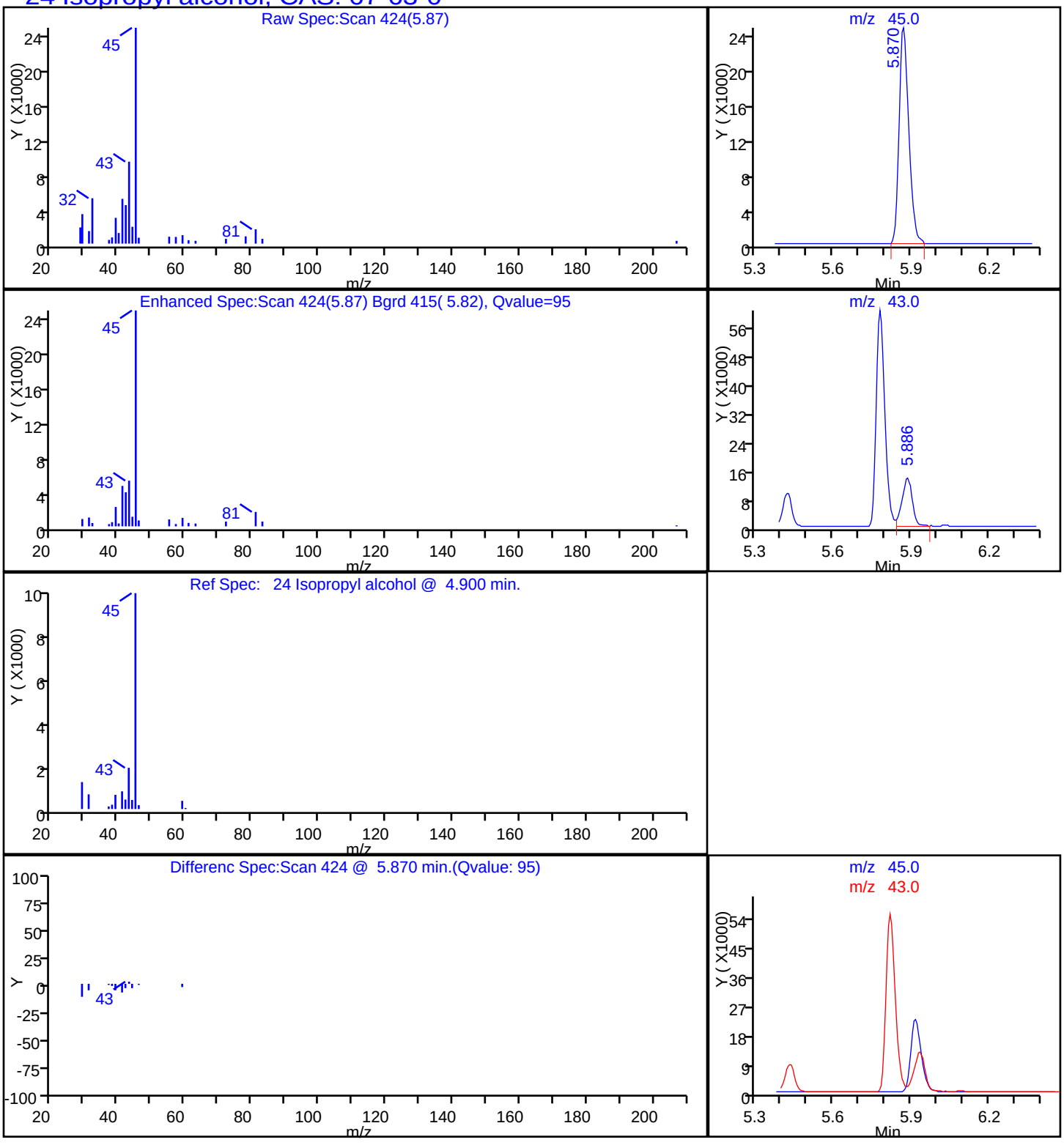
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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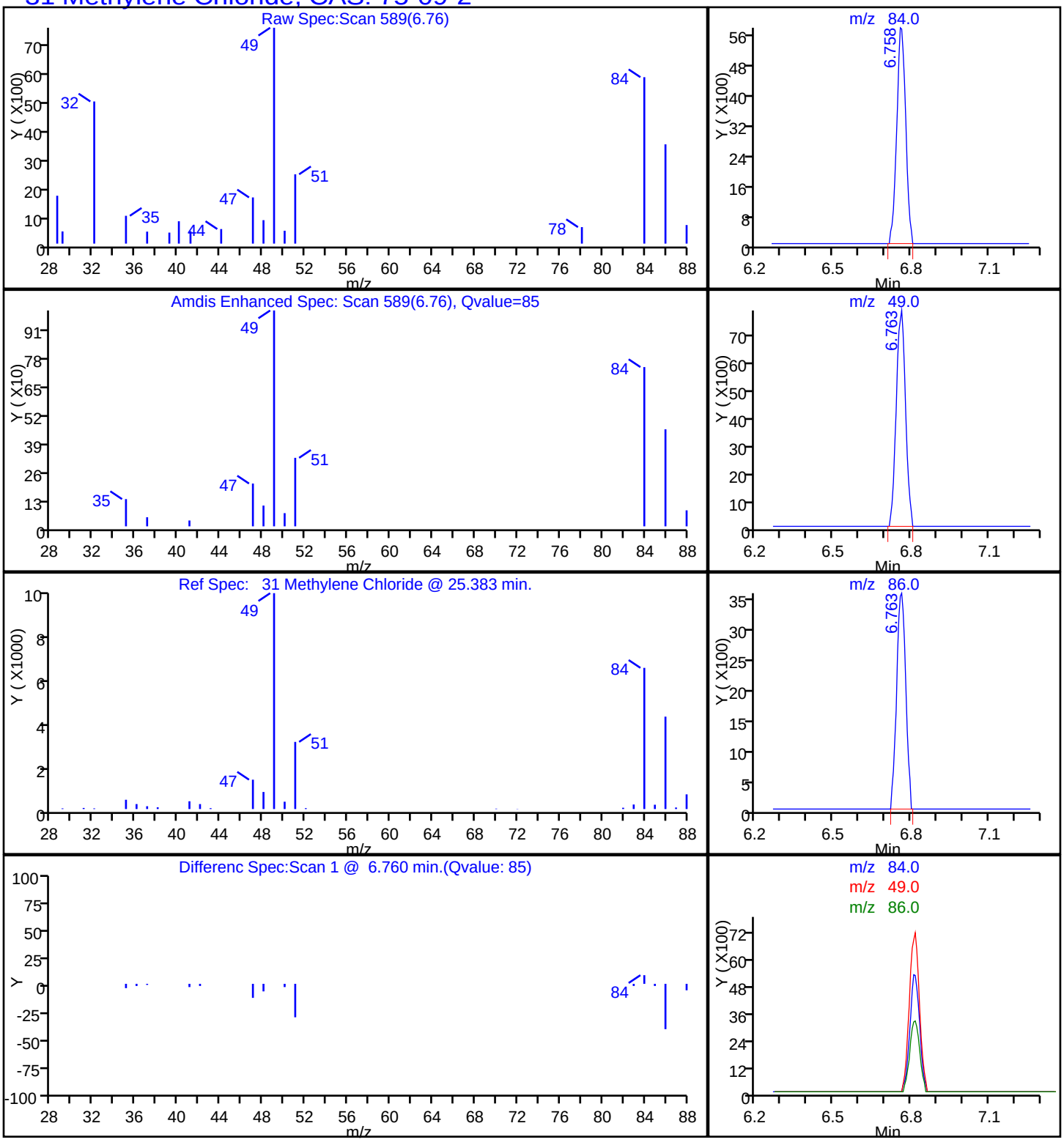
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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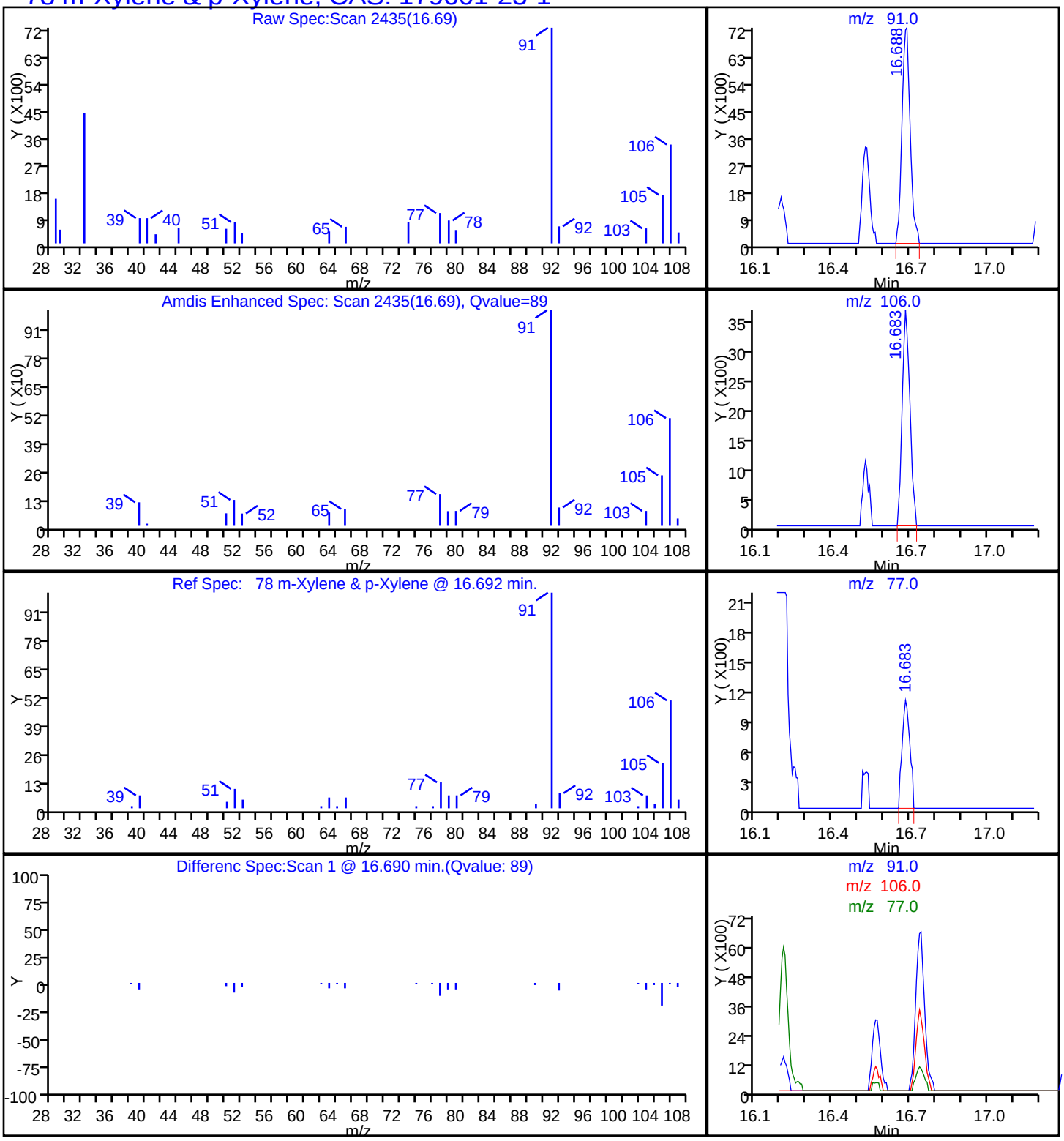
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



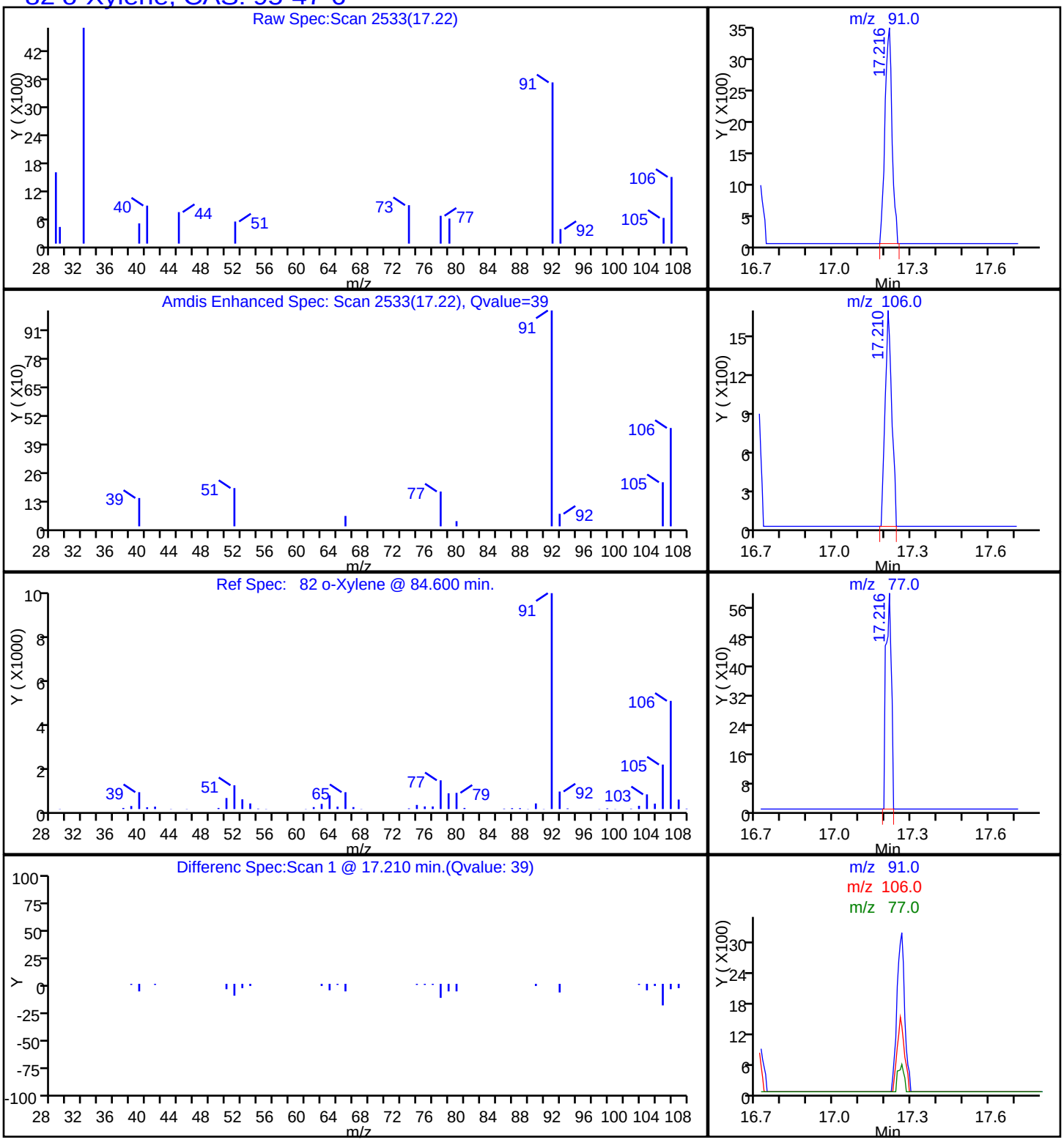
Report Date: 20-Mar-2014 14:55:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14
Client ID:	IA2-E14		
Operator ID:	403648	ALS Bottle#:	1 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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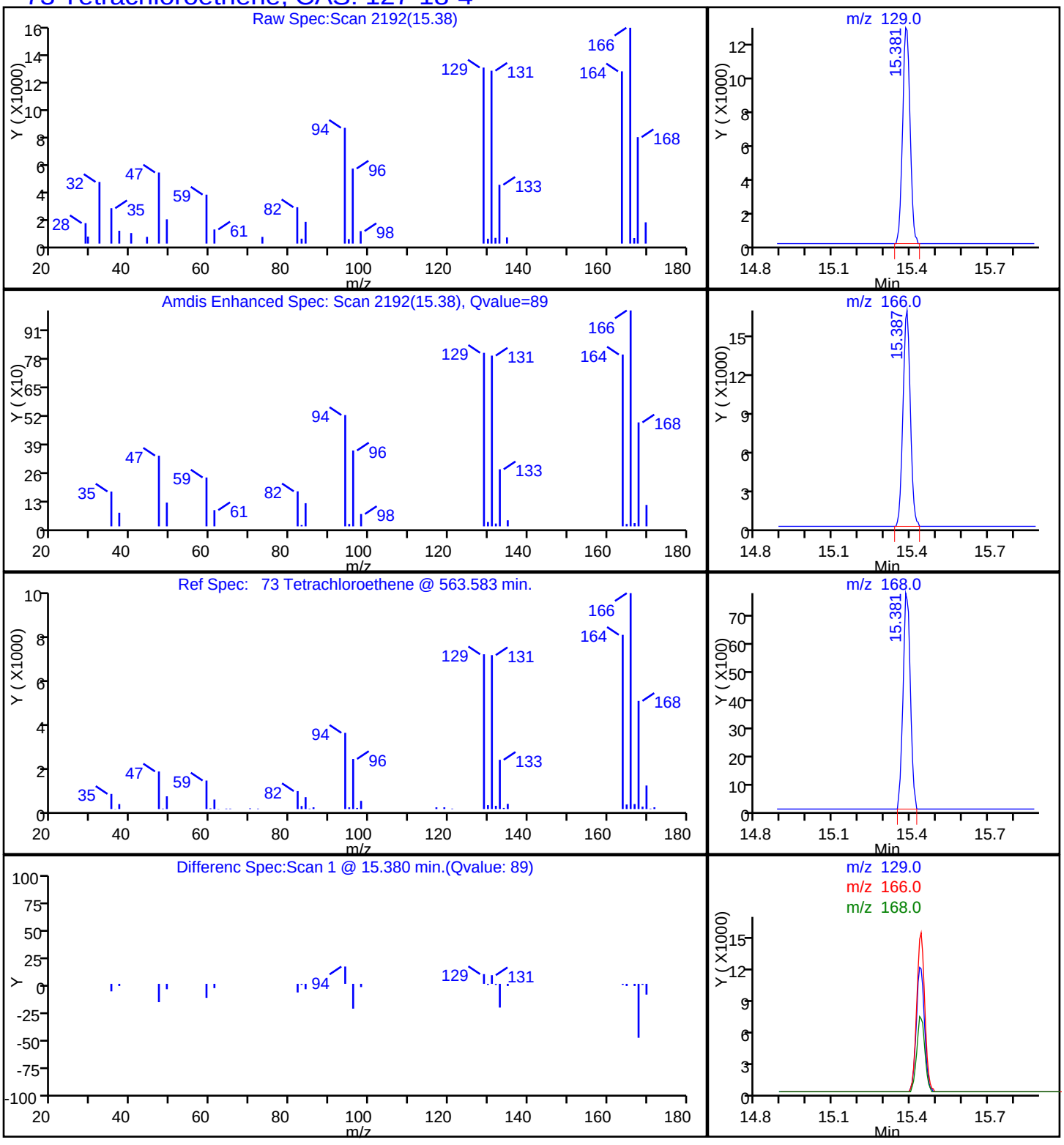
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



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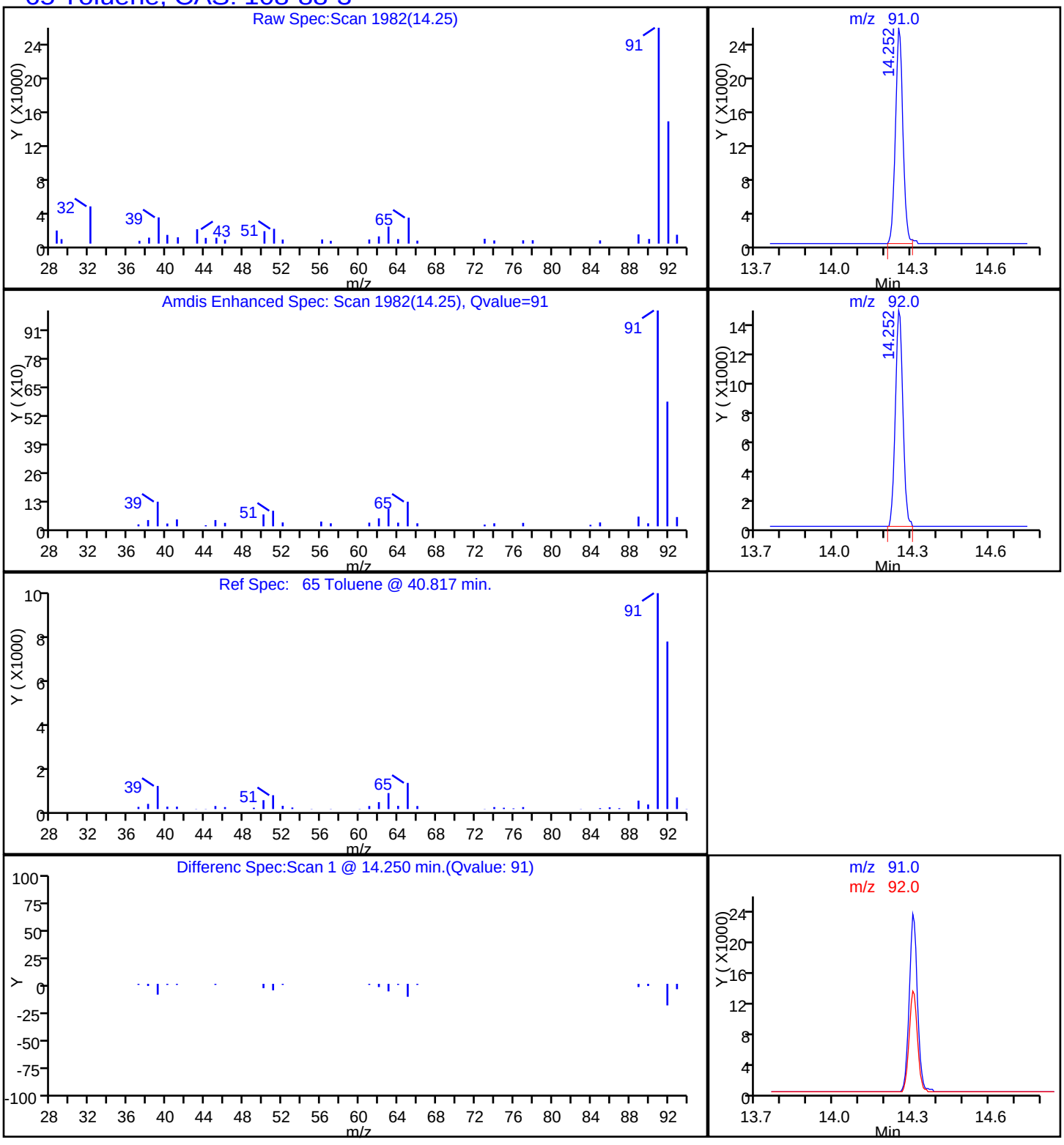
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



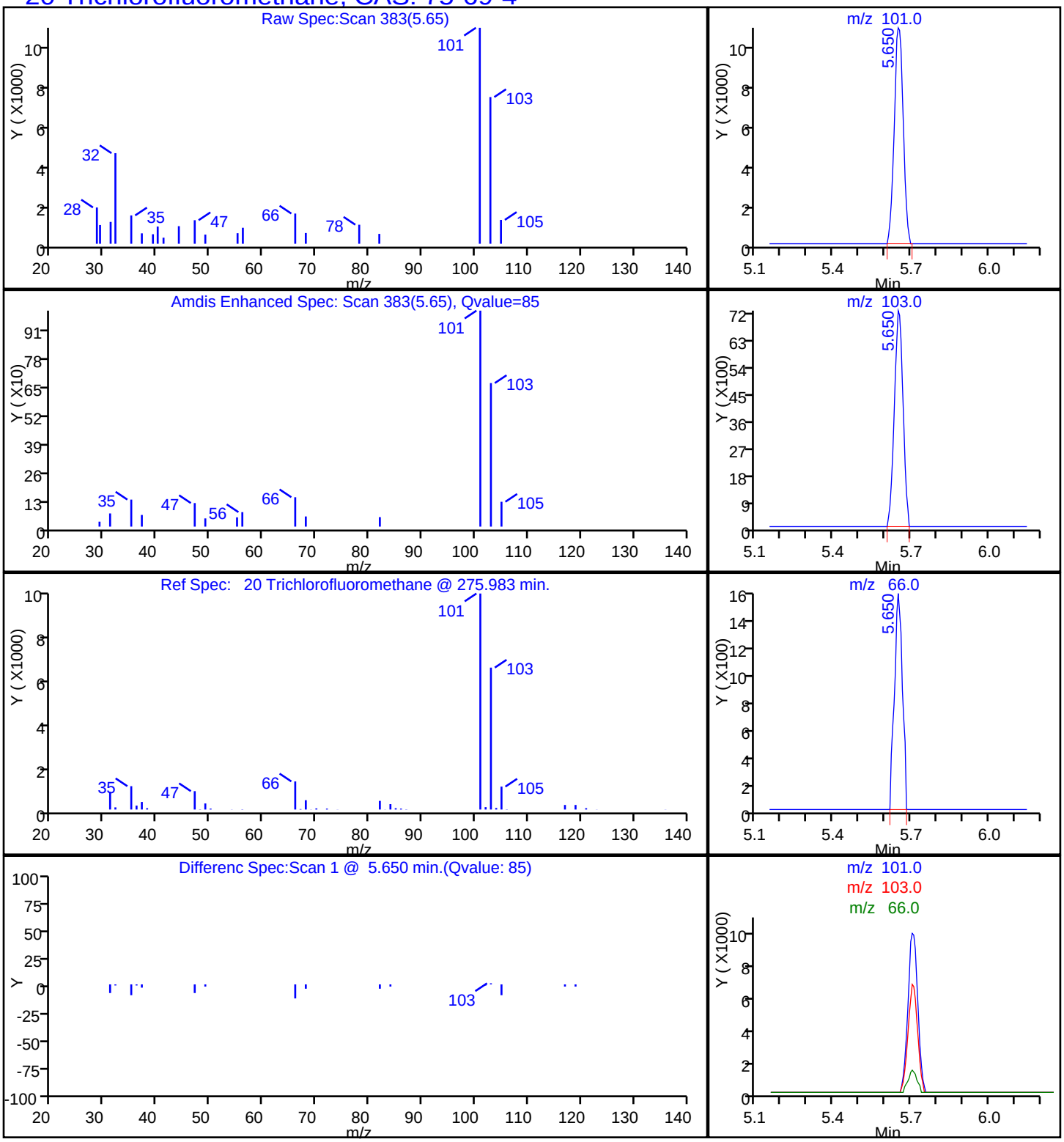
Report Date: 20-Mar-2014 14:55:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date:	18-Mar-2014 19:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-14	Lab Sample ID:	140-1063-14		
Client ID:	IA2-E14				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15

Matrix: Air Lab File ID: JC18P202.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.14	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.22		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.073	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	2.8		1.0	0.20
591-78-6	2-Hexanone	100.20	0.19	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.33	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.082	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.1		0.50	0.045
67-64-1	Acetone	58.08	16		5.0	1.4
71-43-2	Benzene	78.11	0.25		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 | Lab Sample ID: 140-1063-15

Matrix: Air | Lab File ID: JC18P202.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) | Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: | Dilution Factor: 1.84

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 971 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.12	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.62		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.049	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068
64-17-5	Ethanol	46.07	180		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.27	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.18	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	3.0		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.32	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.82		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.32		0.20	0.061
115-07-1	Propene	42.08	3.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.35		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	0.074	J	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.0		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15

Matrix: Air Lab File ID: JC18P202.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15

Matrix: Air Lab File ID: JC18P202.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.70	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.3		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.34	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	8.1		2.9	0.59
591-78-6	2-Hexanone	100.20	0.79	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.96	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.40	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.3		2.0	0.18
67-64-1	Acetone	58.08	38		12	3.3
71-43-2	Benzene	78.11	0.79		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15

Matrix: Air Lab File ID: JC18P202.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.57	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	340		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	1.1	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.62	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	7.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.6		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	5.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.4		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	0.22	J	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.8		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15

Matrix: Air Lab File ID: JC18P202.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:52

Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D
Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15
Client ID: IA3-E14
Sample Type: Client
Inject. Date: 18-Mar-2014 20:05:30 ALS Bottle#: 2 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.8400
Sample Info: 140-1063-a-15@1.84
Misc. Info.: J031814,TO15,,140-0000527-023
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 14:55:39 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 11:03:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.388	-0.004	89	369929	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.539	-0.004	94	1766504	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1419898	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.817	0.002	91	954559	3.80	
7 Propene	41	3.983	3.971	0.012	85	139402	1.23	
8 Dichlorodifluoromethane	85	4.031	4.030	0.001	96	68265	0.1863	
9 Chloromethane	52	4.230	4.229	0.001	98	10342	0.2485	
17 Ethanol	31	5.123	5.116	0.007	93	2168997	73.0	
19 2-Methylbutane	43	5.408	5.407	0.001	87	20531	0.1307	
20 Trichlorofluoromethane	101	5.645	5.644	0.001	85	25008	0.0777	
23 Acetone	58	5.763	5.767	-0.004	98	333973	6.35	
24 Isopropyl alcohol	45	5.860	5.848	0.012	93	164331	1.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.586	6.580	0.006	63	5774	0.0259	
31 Methylene Chloride	84	6.753	6.757	-0.004	88	12591	0.1272	
39 2-Butanone (MEK)	72	8.587	8.586	0.001	100	38568	1.10	
40 Hexane	56	8.630	8.635	-0.005	63	7043	0.0708	
43 Chloroform	83	9.389	9.393	-0.004	39	10145	0.0471	
44 Tetrahydrofuran	42	9.825	9.802	0.023	56	2528	0.0295	
48 Benzene	78	11.019	11.023	-0.004	90	30079	0.0992	
49 Cyclohexane	69	11.024	11.034	-0.010	33	1164	0.0195	
50 Carbon tetrachloride	117	11.046	11.050	-0.004	88	7368	0.0294	
53 Isooctane	57	11.761	11.760	0.001	29	15107	0.0292	
54 n-Heptane	71	12.122	12.120	0.002	83	11625	0.1085	
62 4-Methyl-2-pentanone (MIBK)	43	13.375	13.368	0.007	97	78166	0.4221	
65 Toluene	91	14.252	14.256	-0.004	93	106530	0.4044	
69 2-Hexanone	58	14.693	14.681	0.012	79	6684	0.0775	
73 Tetrachloroethene	129	15.382	15.386	-0.004	84	17366	0.1415	
76 Ethylbenzene	91	16.528	16.532	-0.004	85	27063	0.0930	
78 m-Xylene & p-Xylene	91	16.684	16.688	-0.004	99	77069	0.3283	
82 o-Xylene	91	17.211	17.215	-0.004	89	30363	0.1276	
88 4-Ethyltoluene	105	18.448	18.447	0.001	50	10358	0.0328	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.943	18.942	0.001	80	15793	0.0573	
97 1,4-Dichlorobenzene	146	19.298	19.297	0.001	87	14655	0.0869	

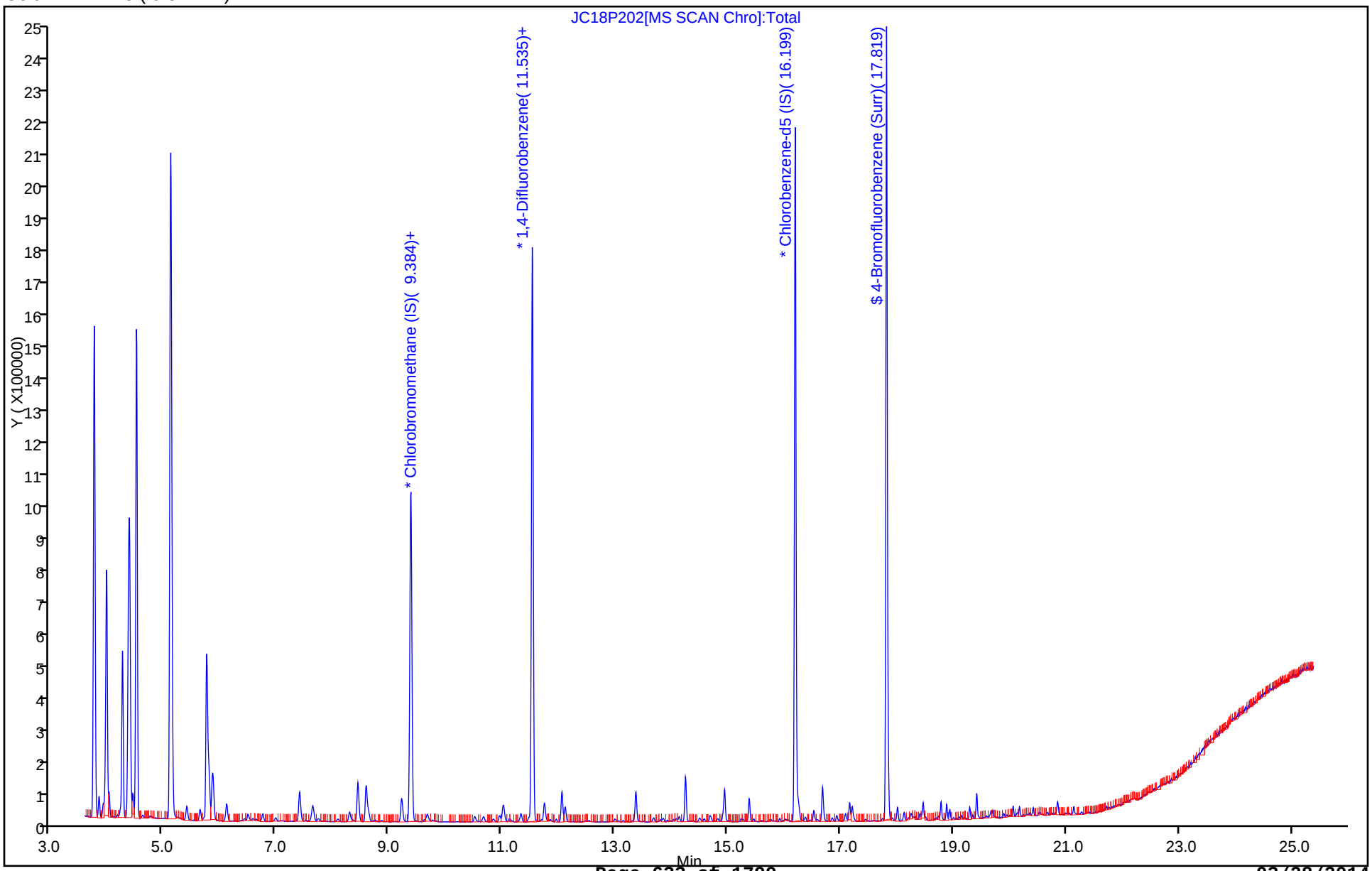
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15	Worklist Smp#:	23
Client ID:	IA3-E14				
Purge Vol:	500.000 mL	Dil. Factor:	1.8400	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30 Instrument ID: MJ

Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15

Client ID: IA3-E14

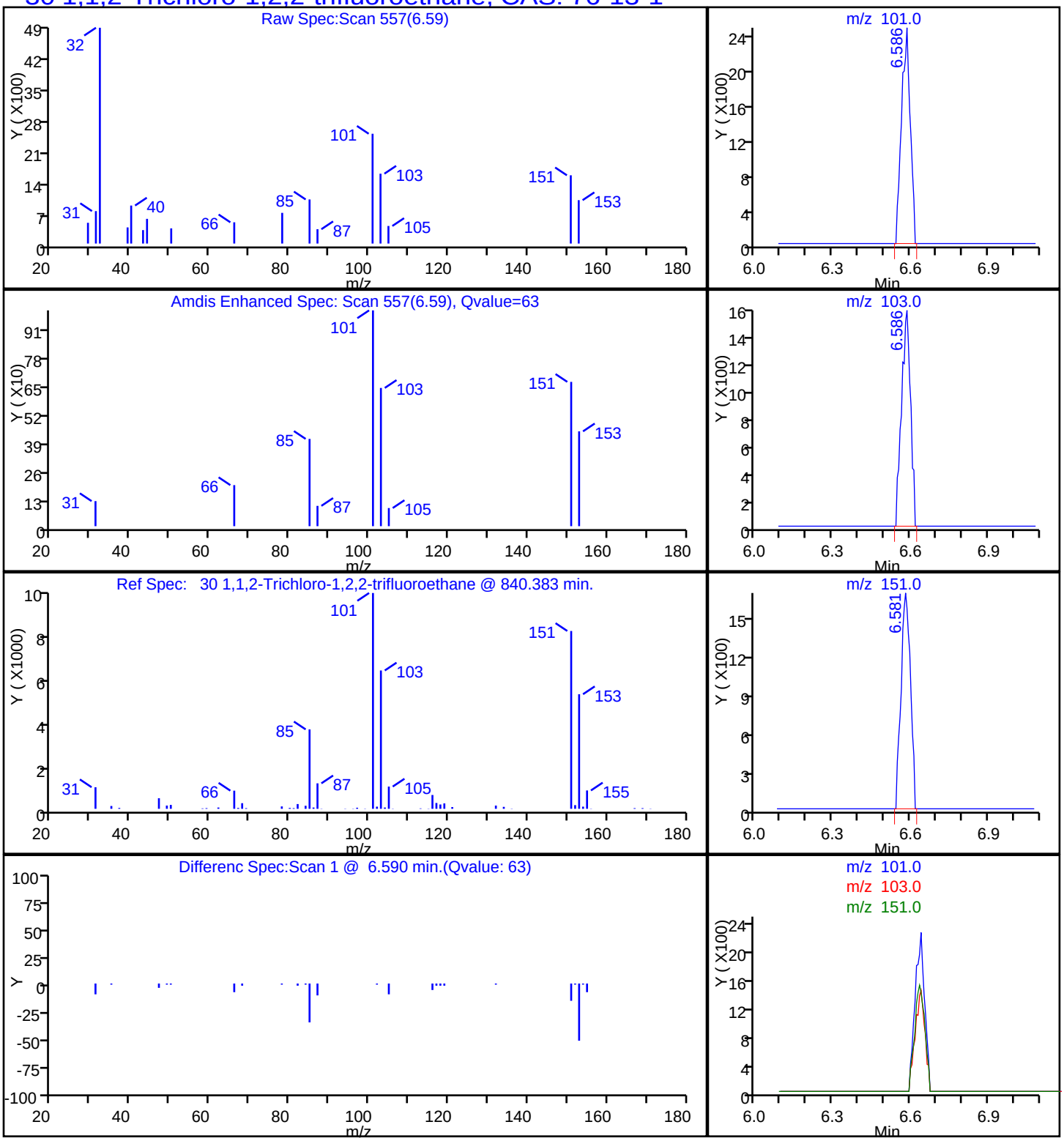
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.8400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



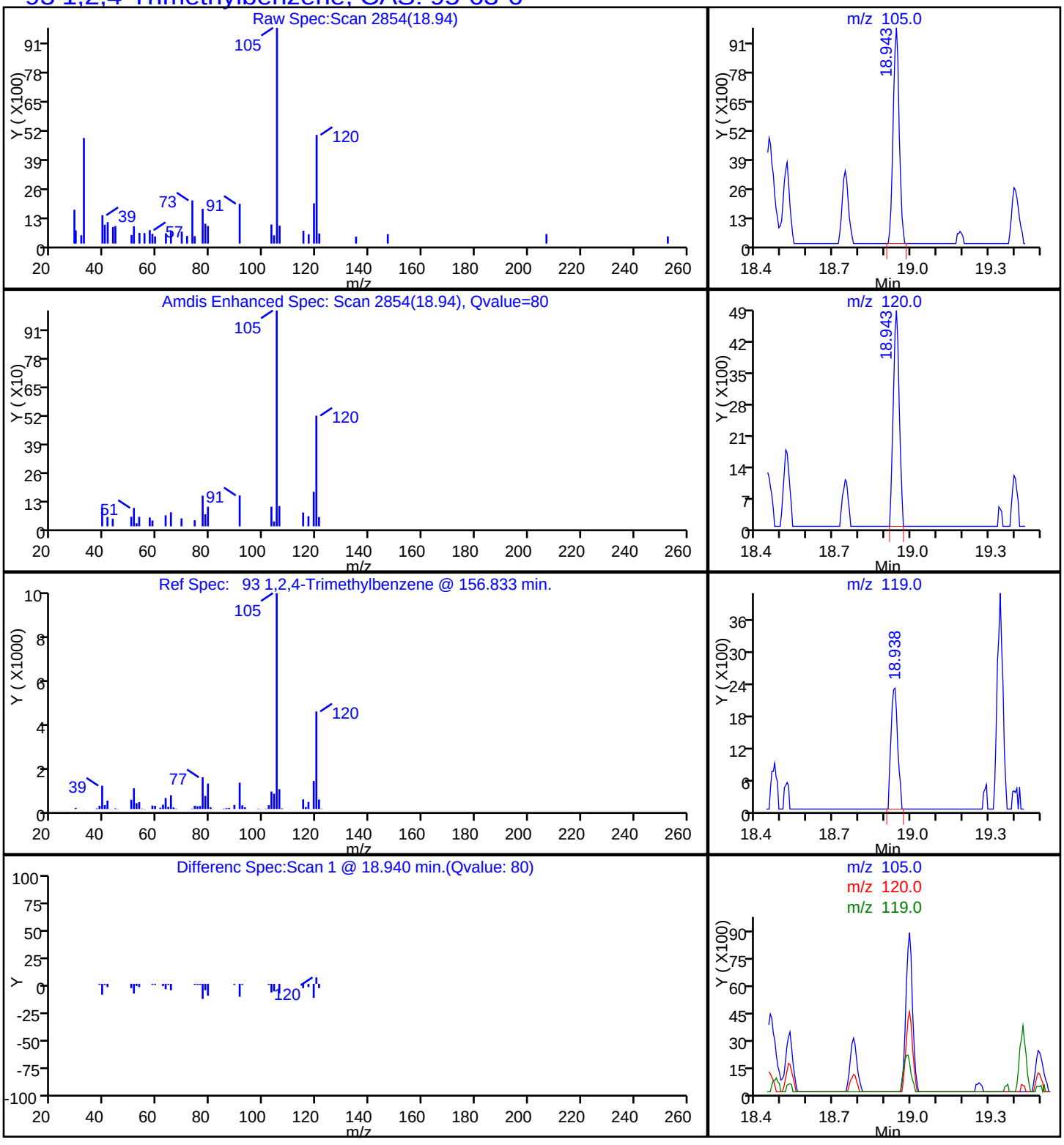
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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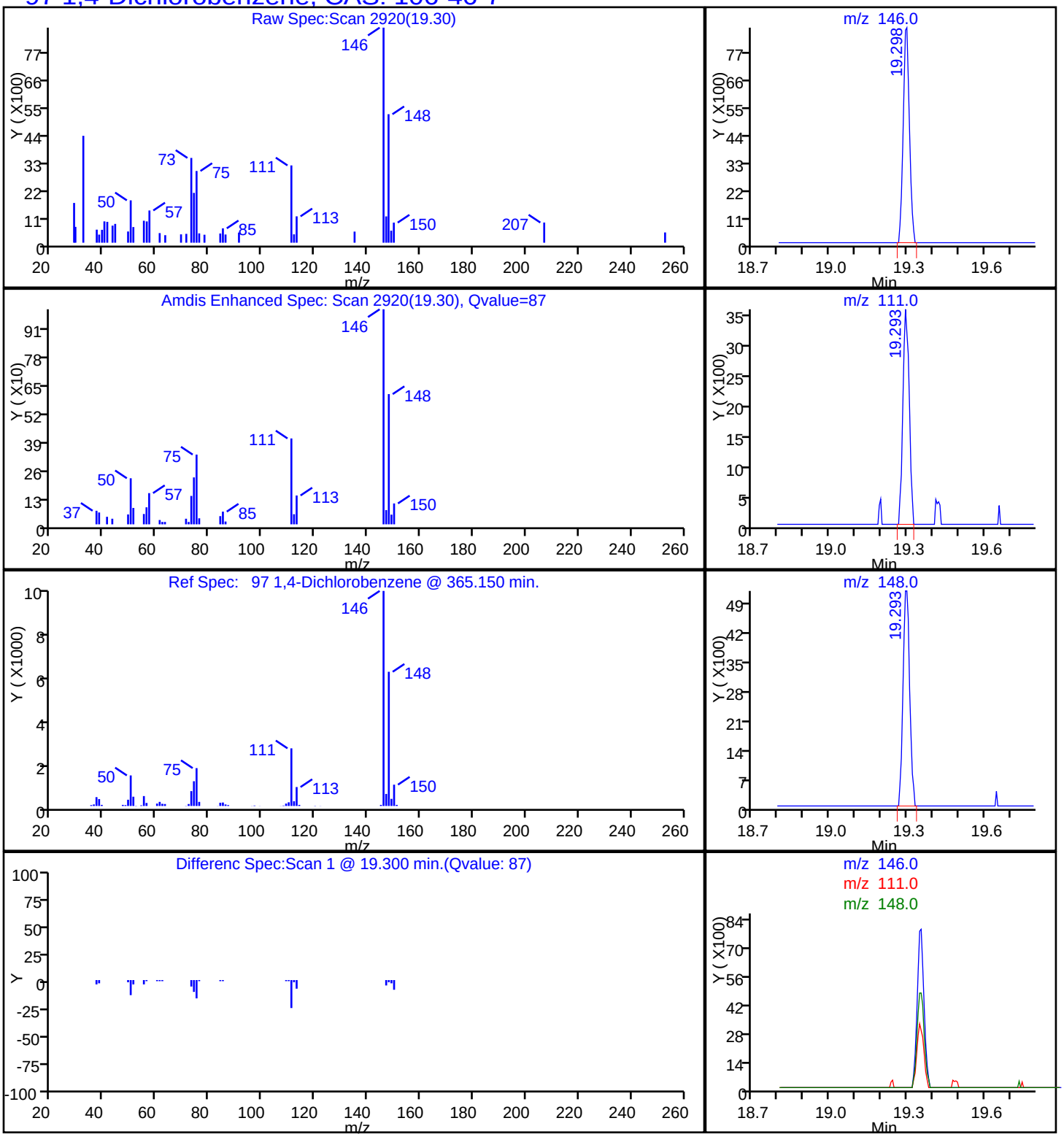
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30 Instrument ID: MJ

Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15

Client ID: IA3-E14

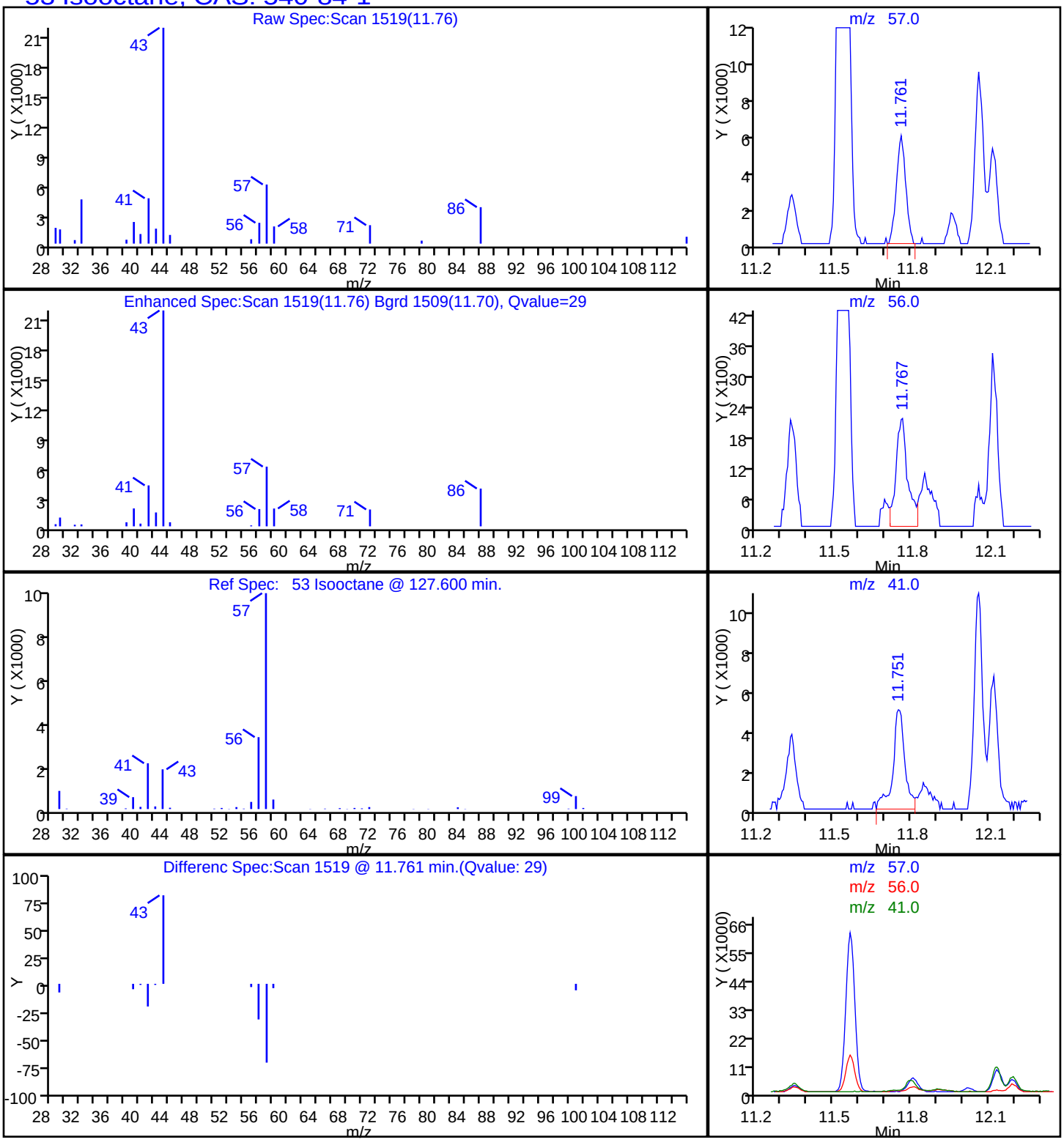
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.8400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



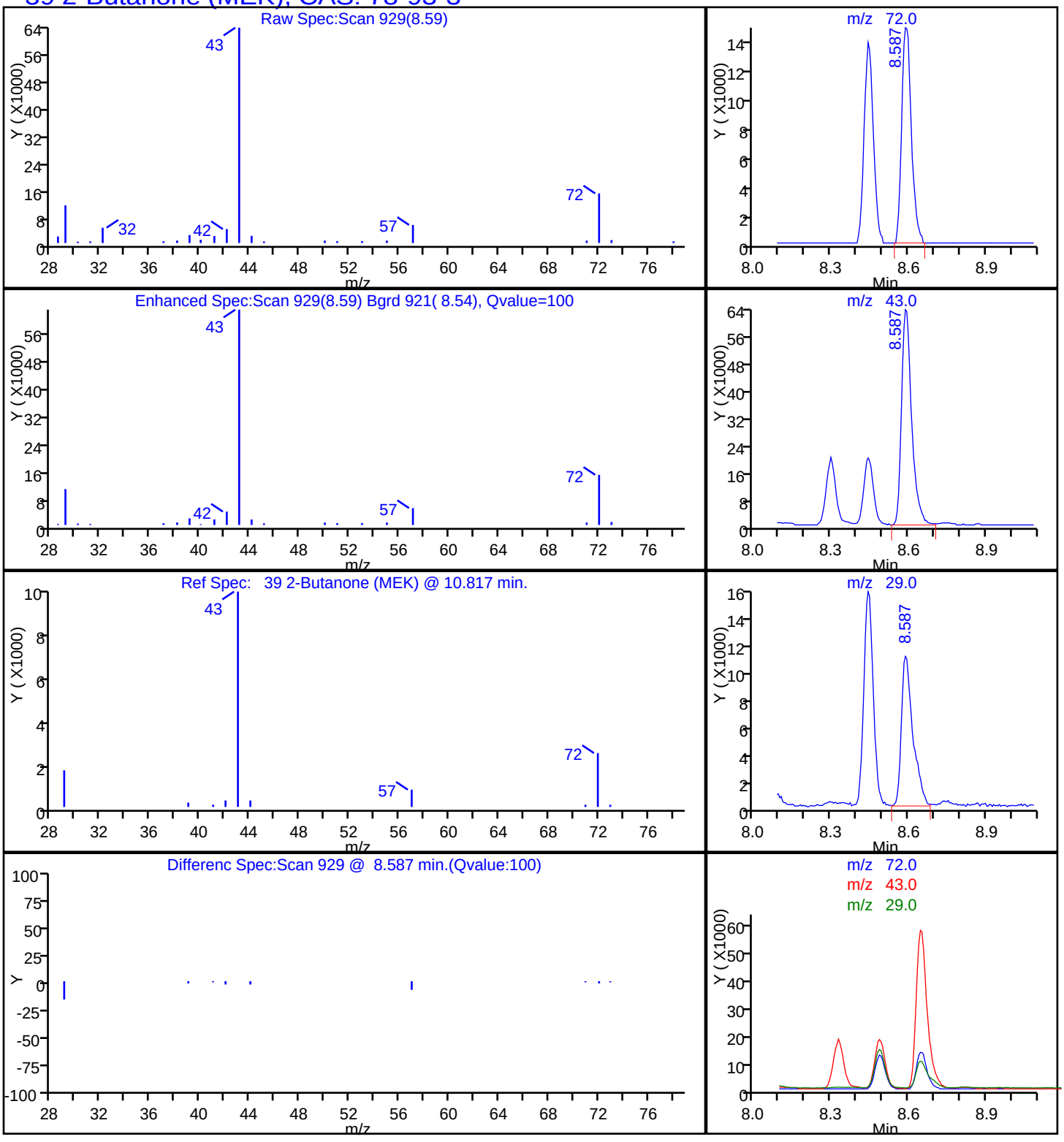
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



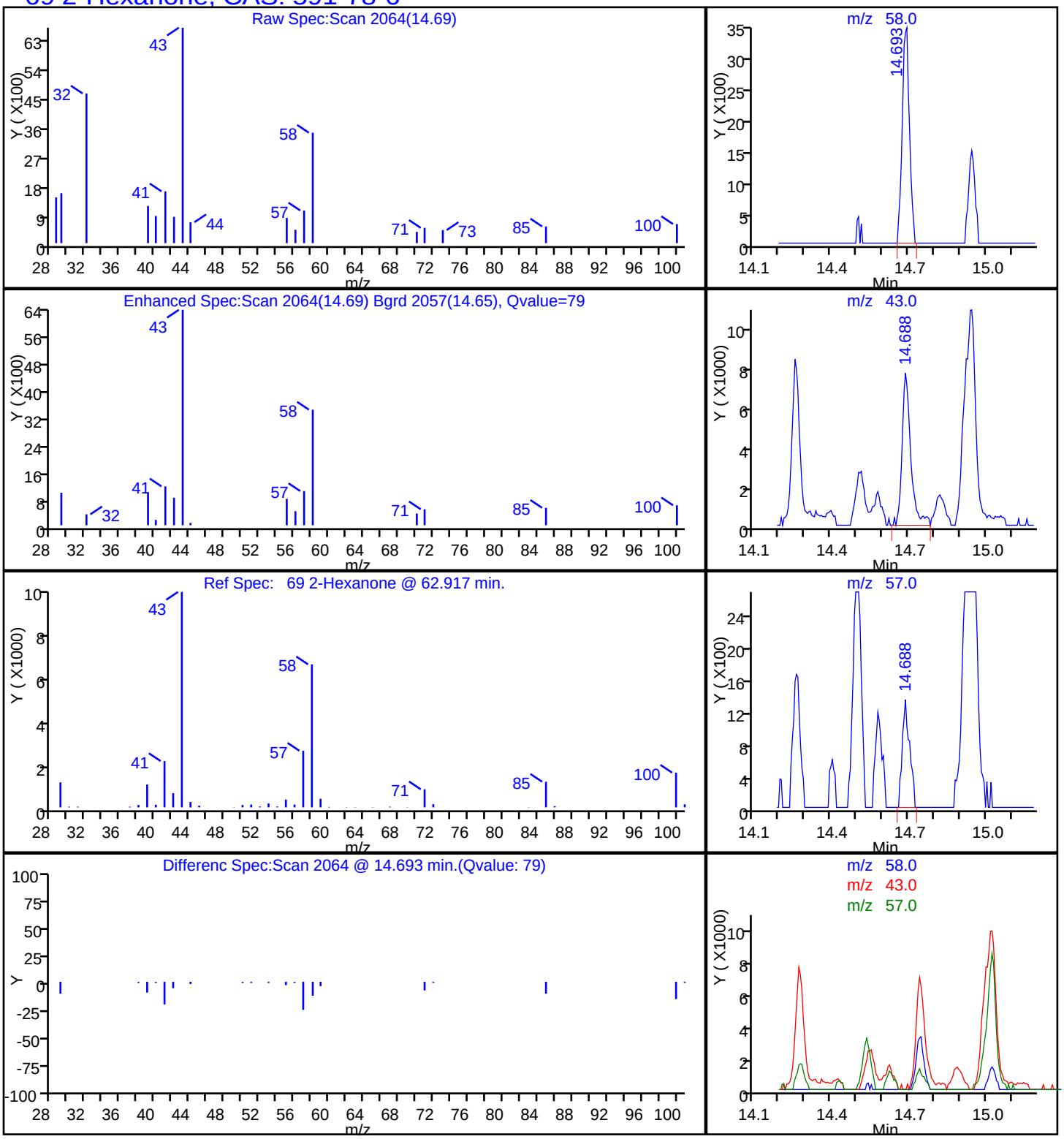
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

69 2-Hexanone, CAS: 591-78-6



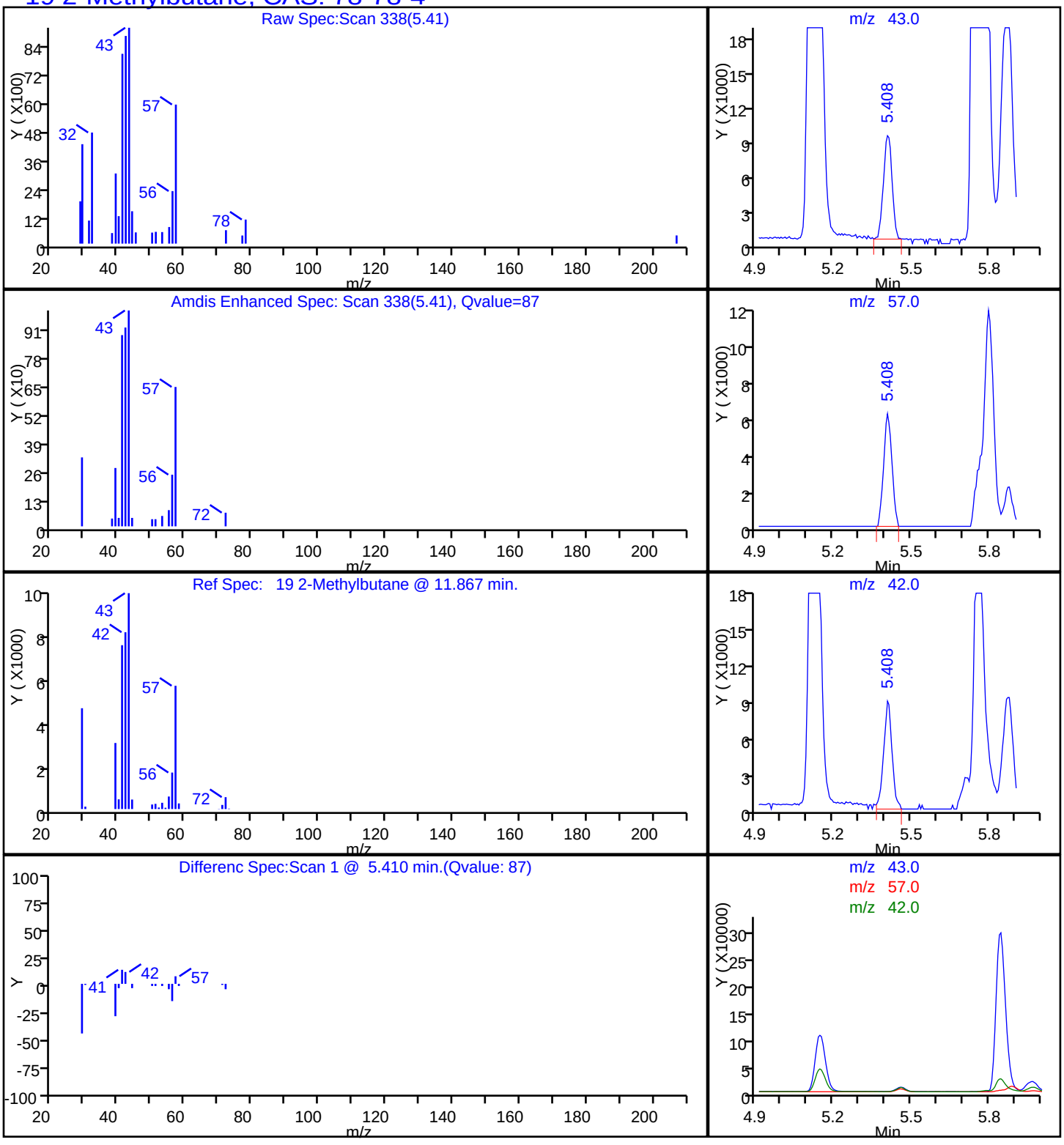
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



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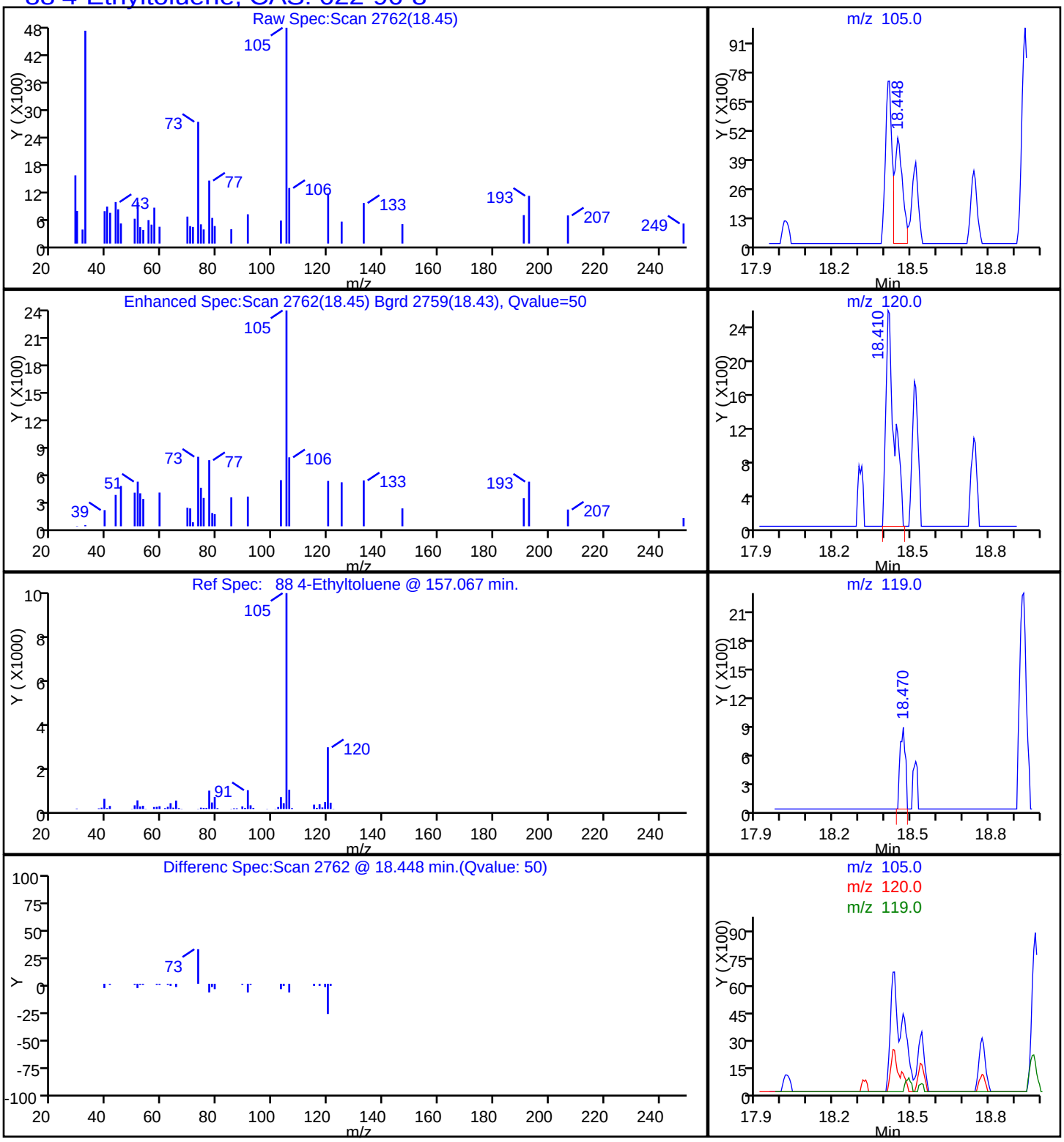
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



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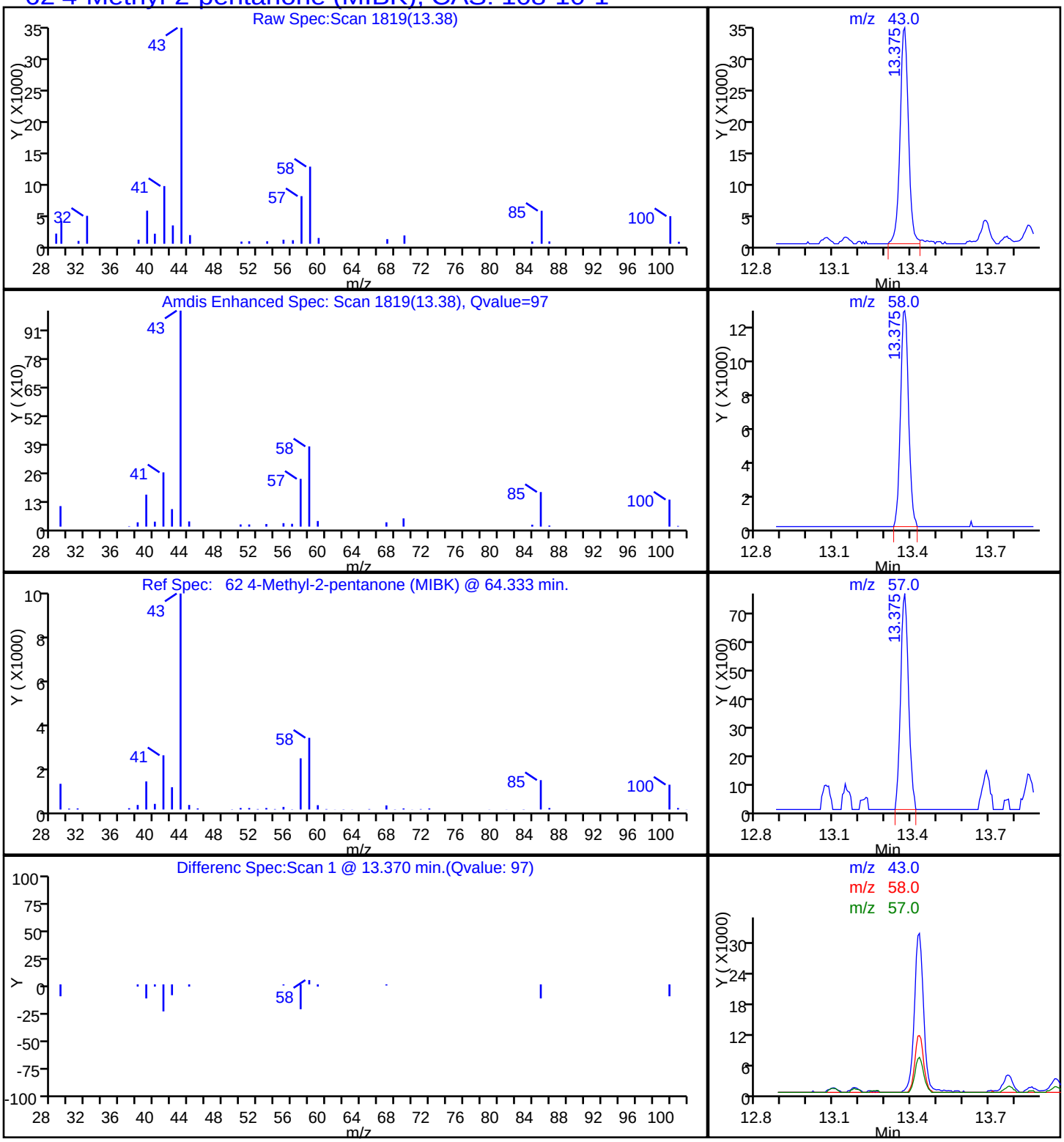
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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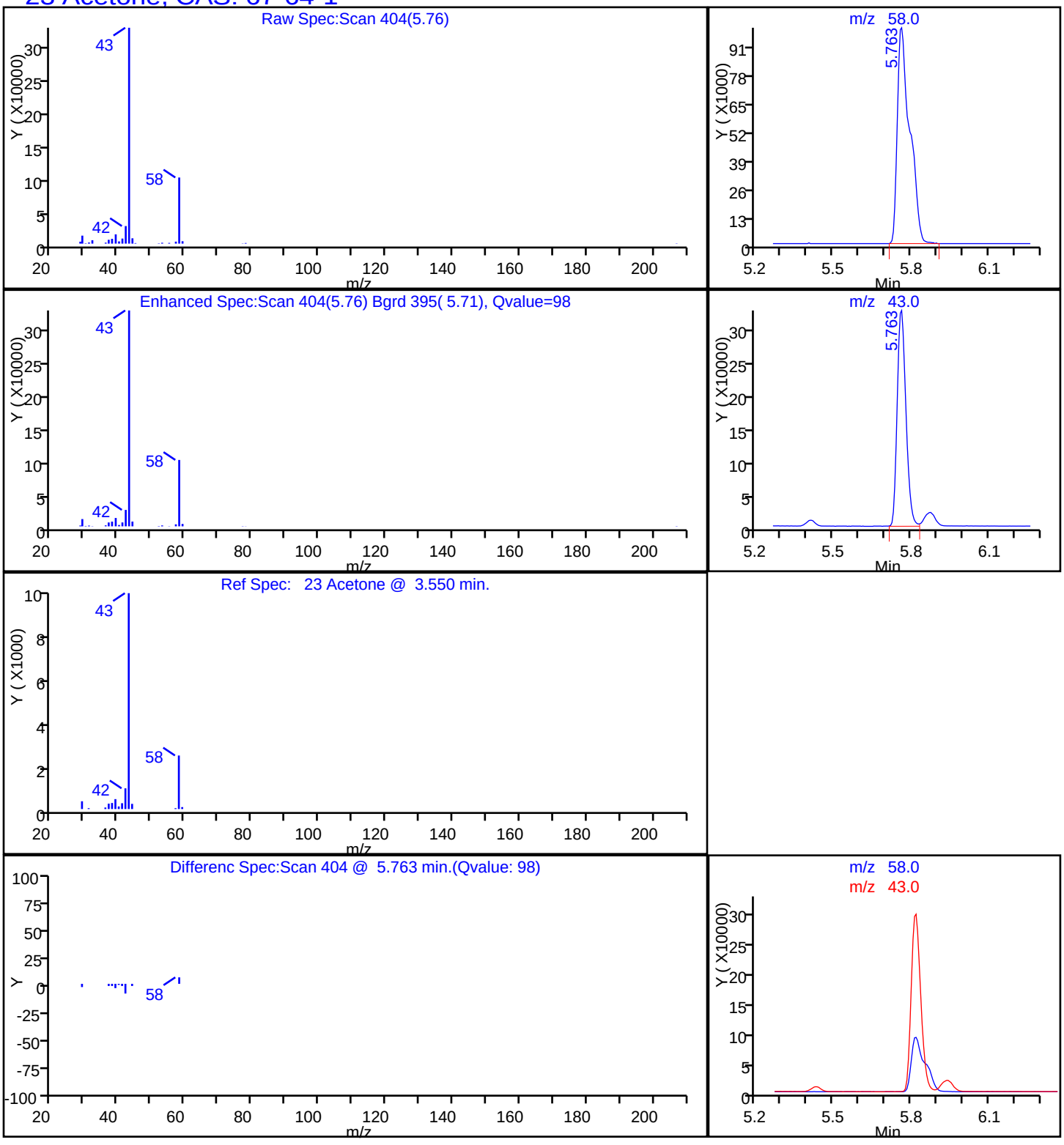
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D		
Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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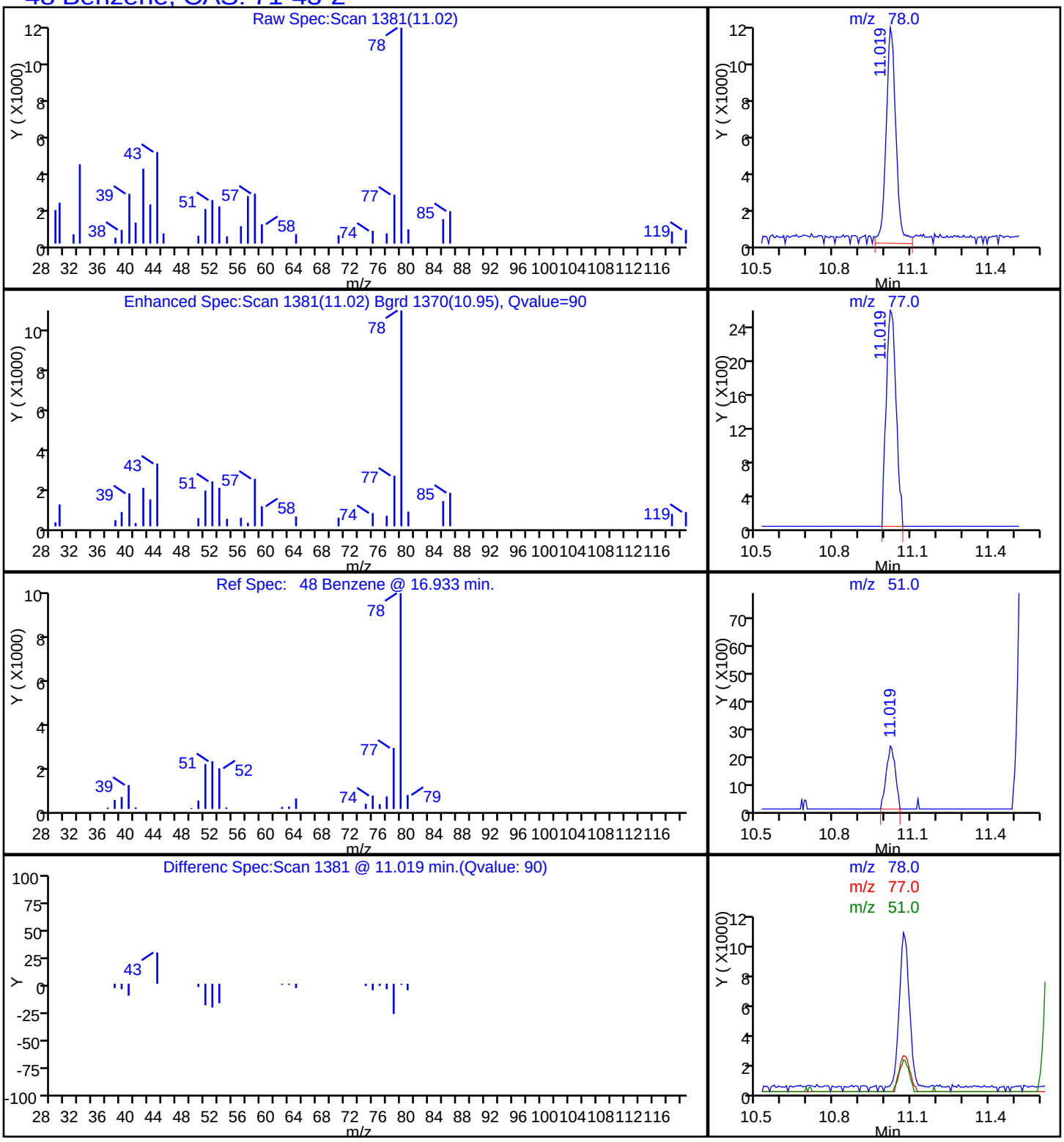
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



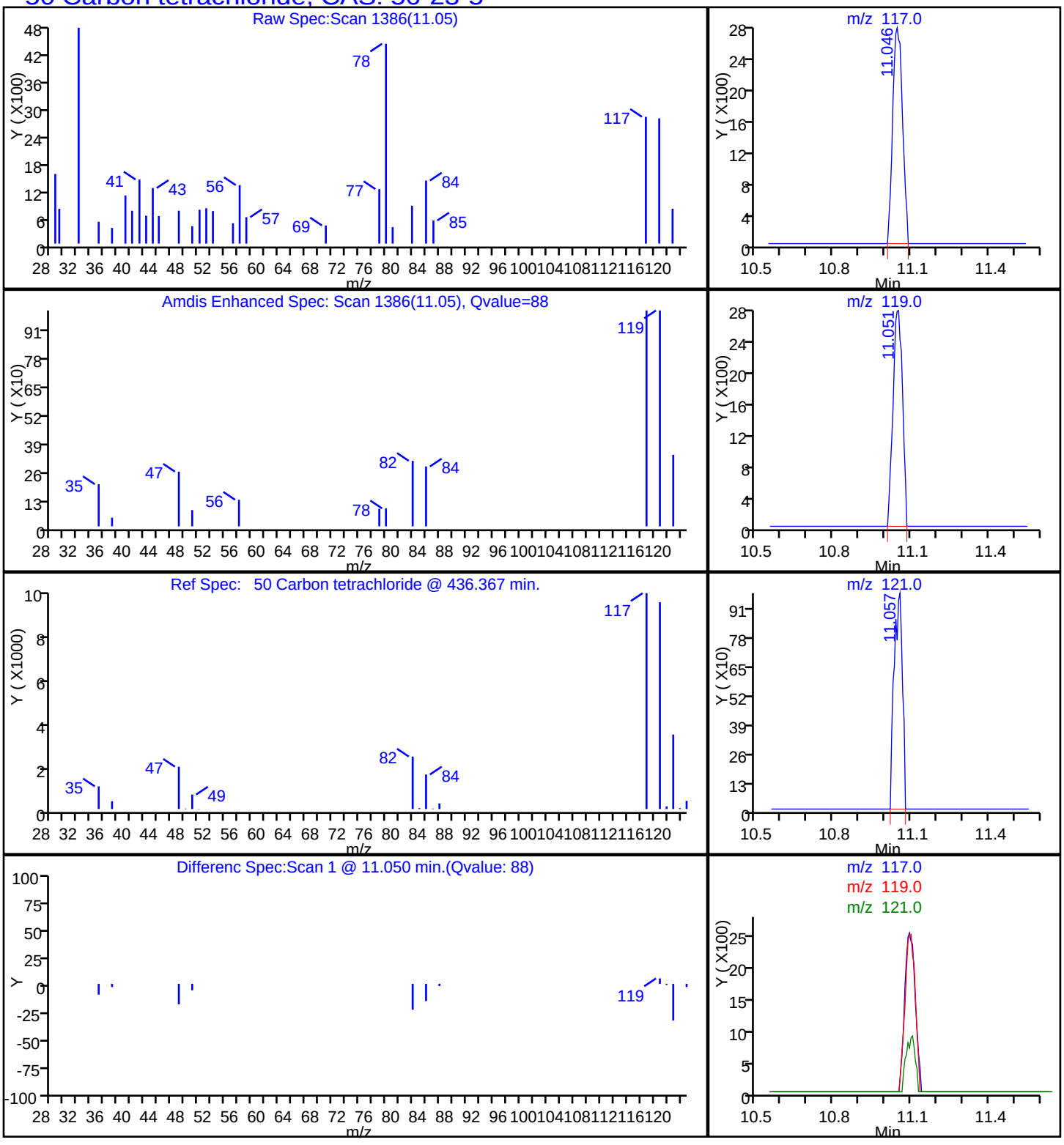
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



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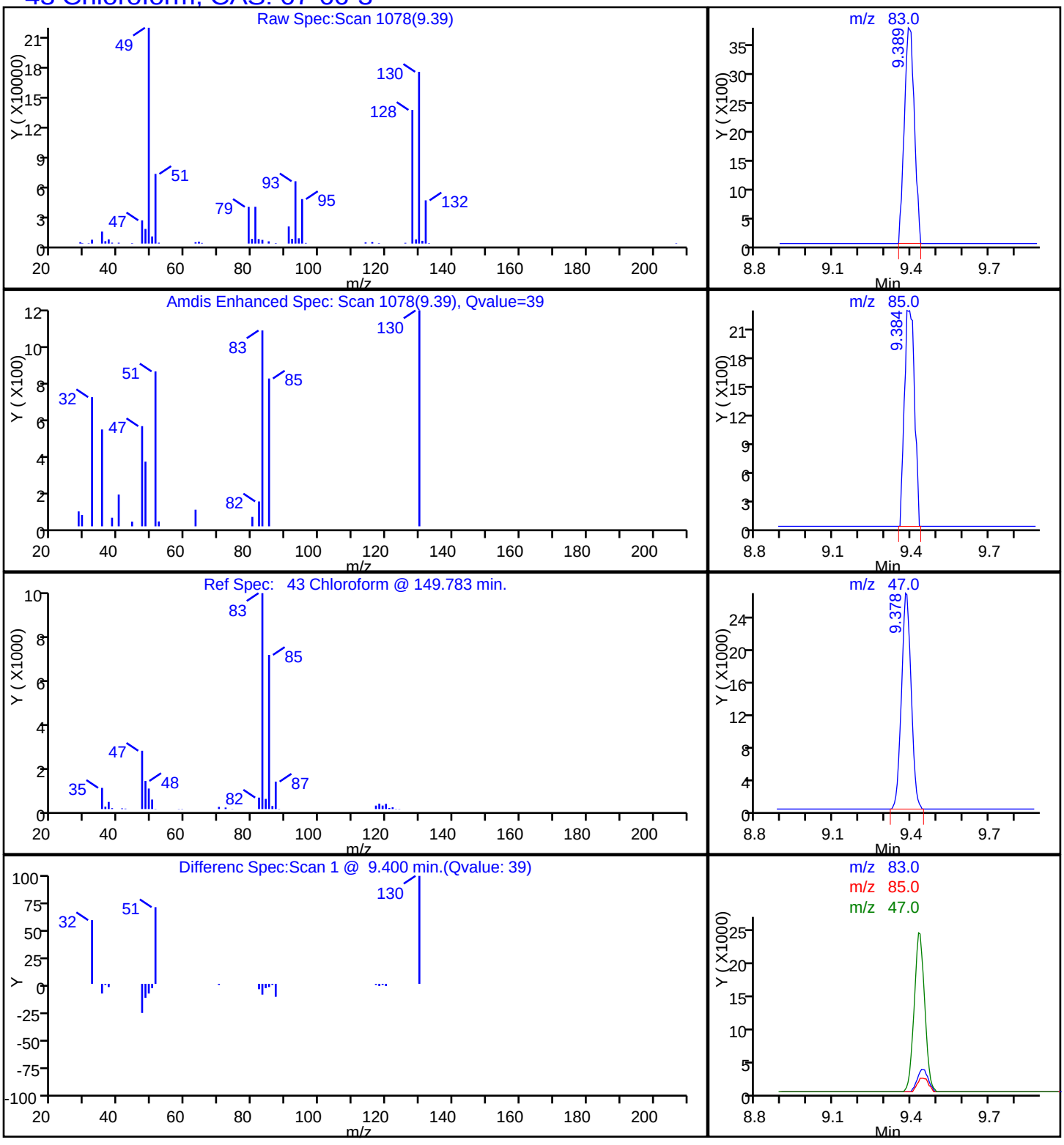
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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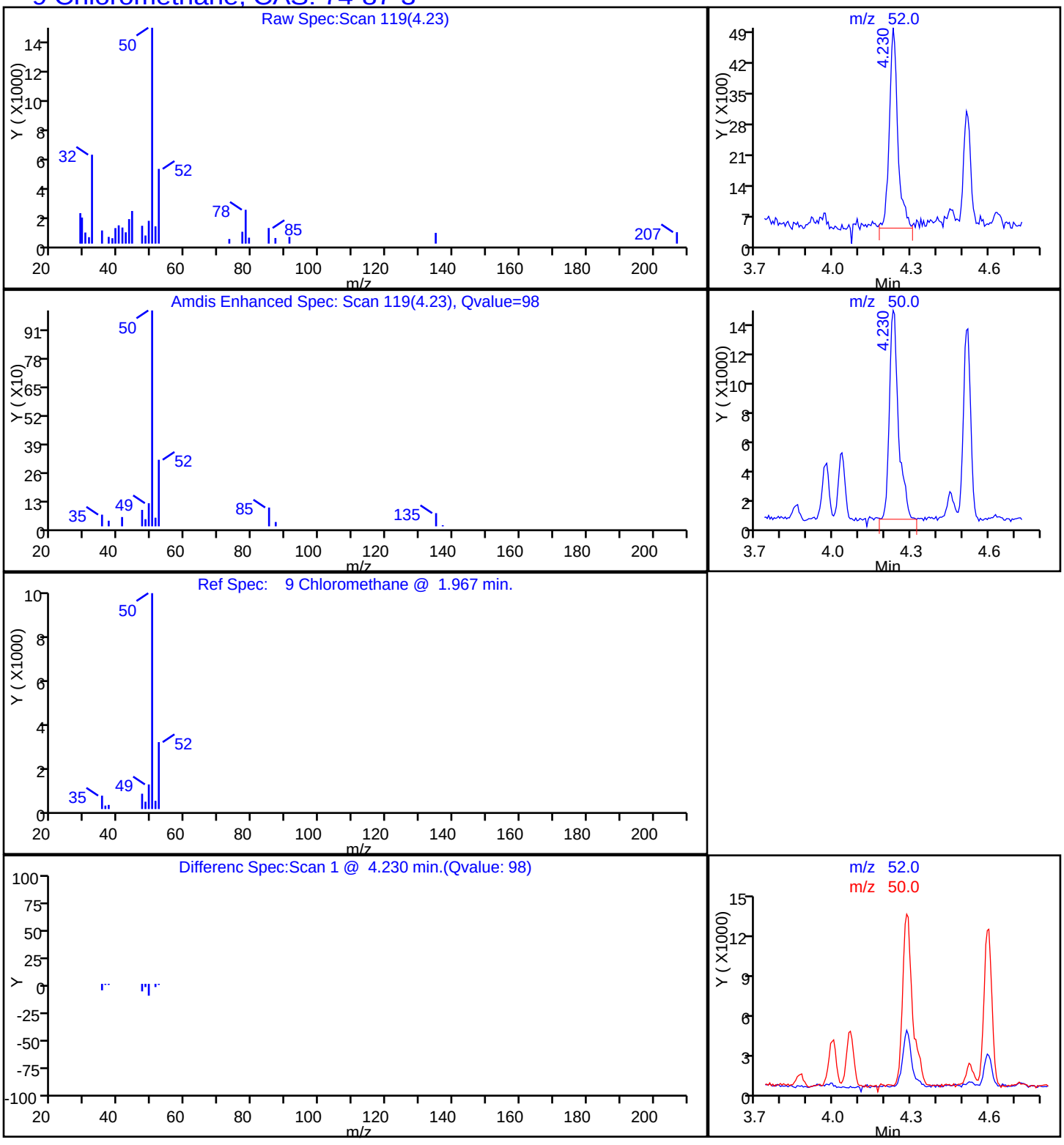
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30 Instrument ID: MJ

Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15

Client ID: IA3-E14

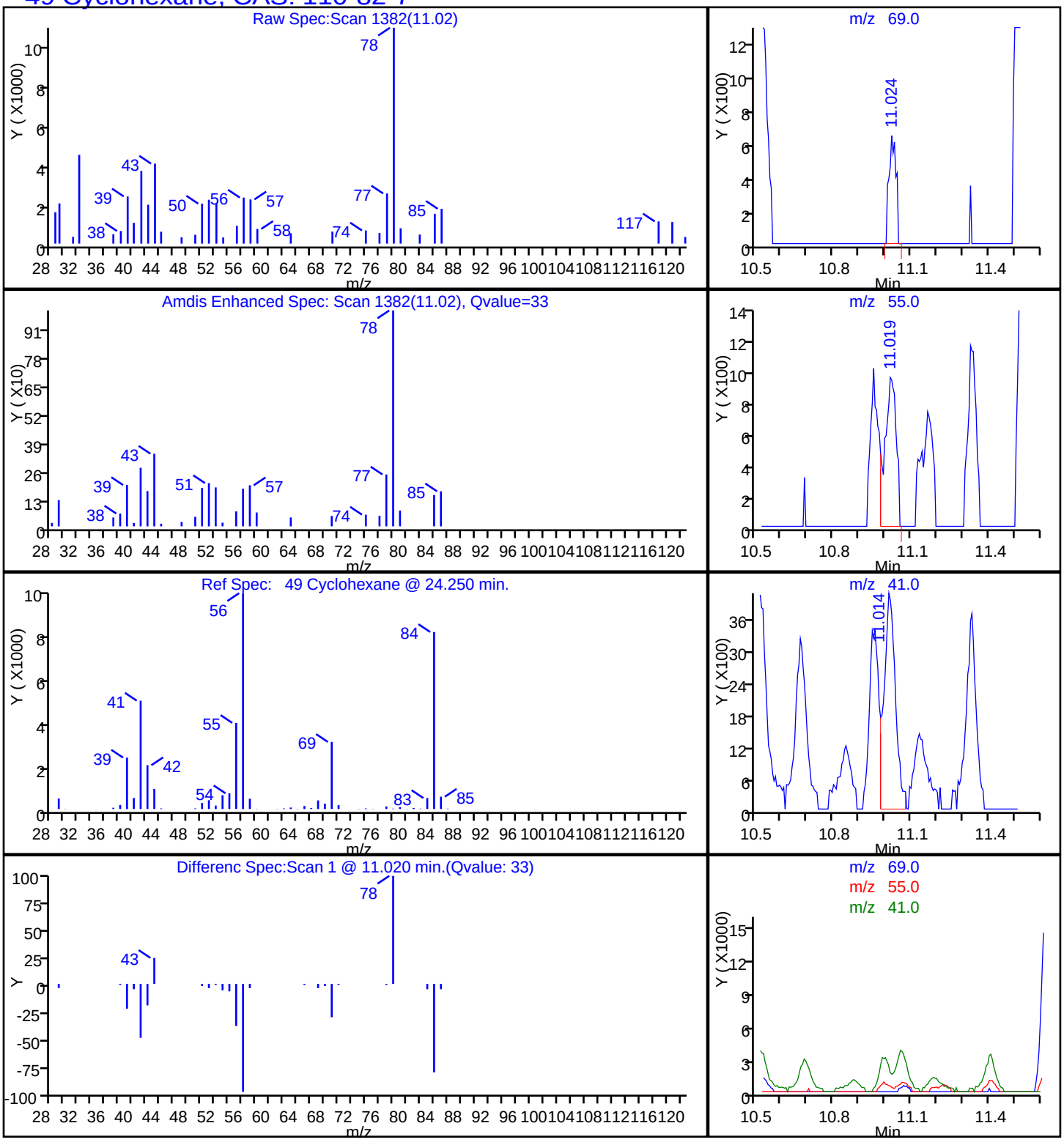
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.8400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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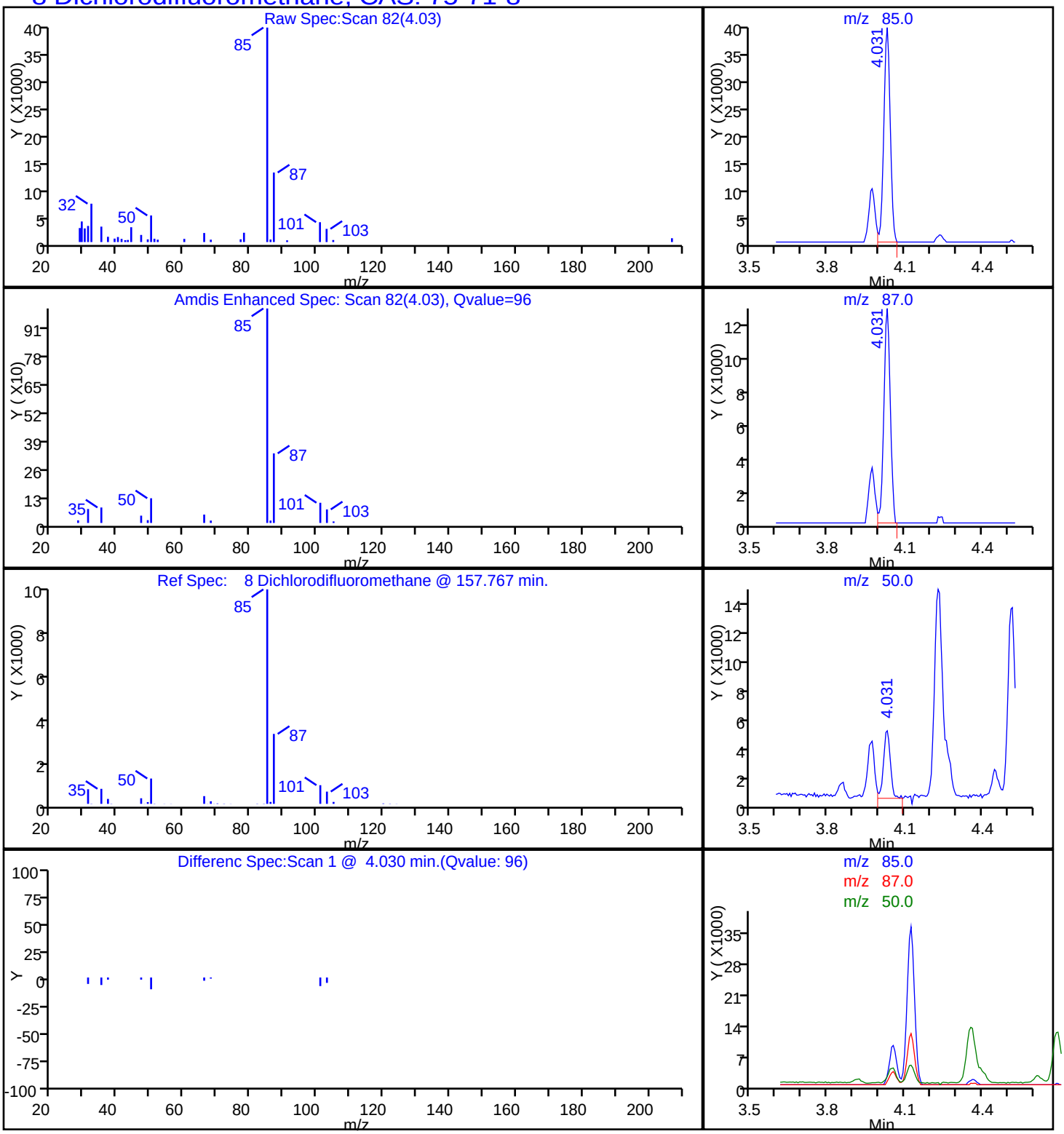
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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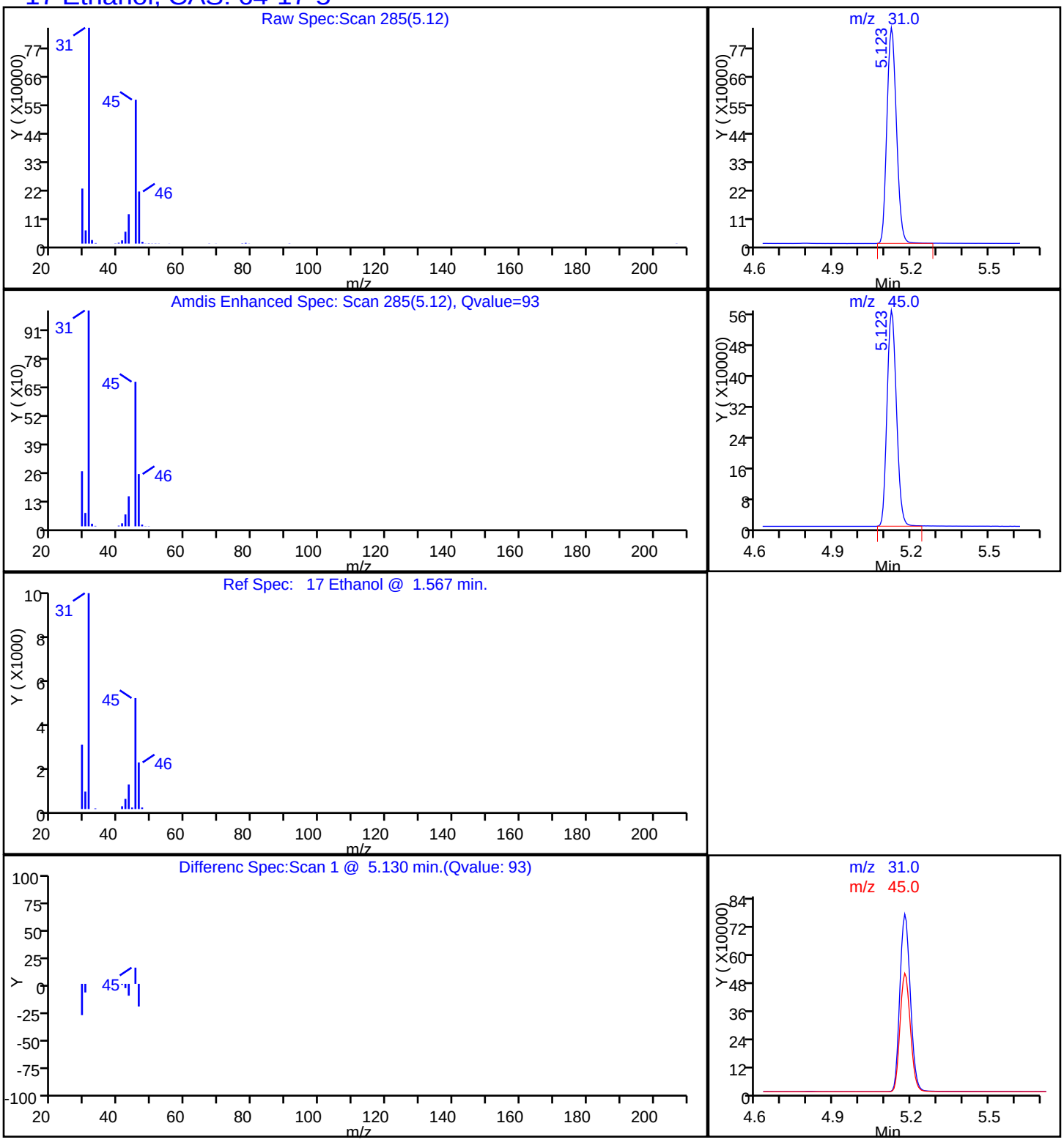
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30 Instrument ID: MJ

Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15

Client ID: IA3-E14

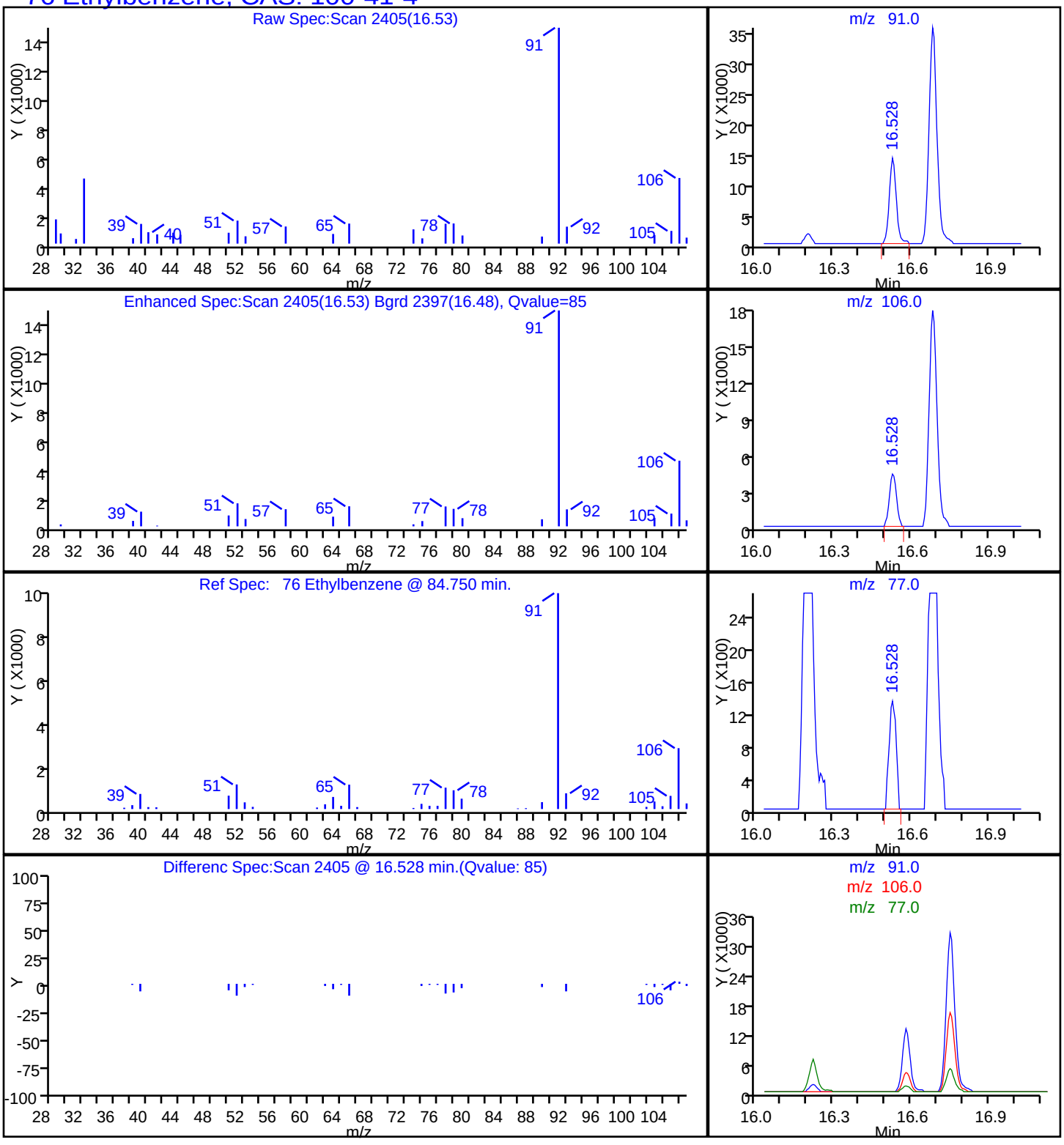
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL Dil. Factor: 1.8400

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4



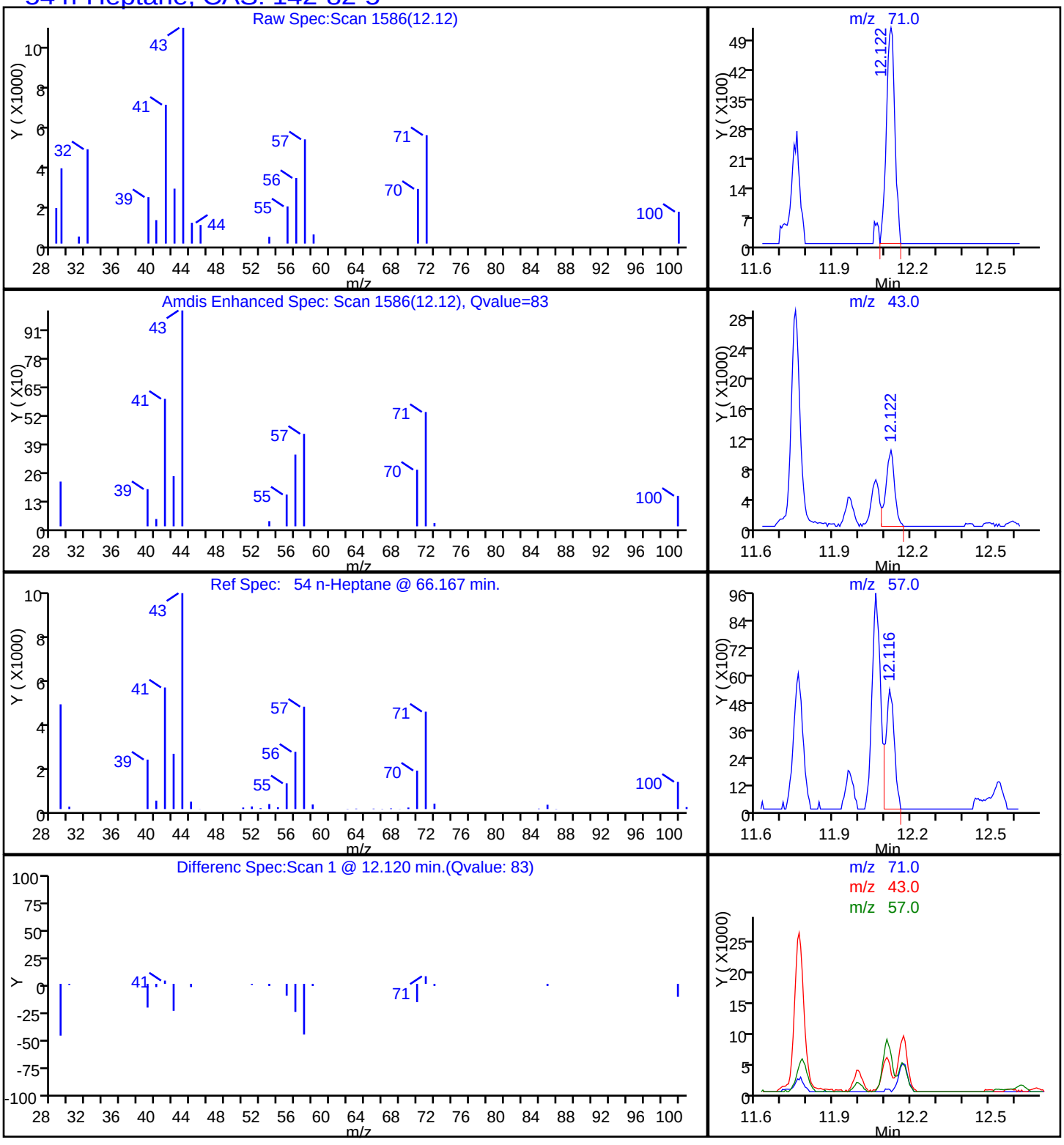
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



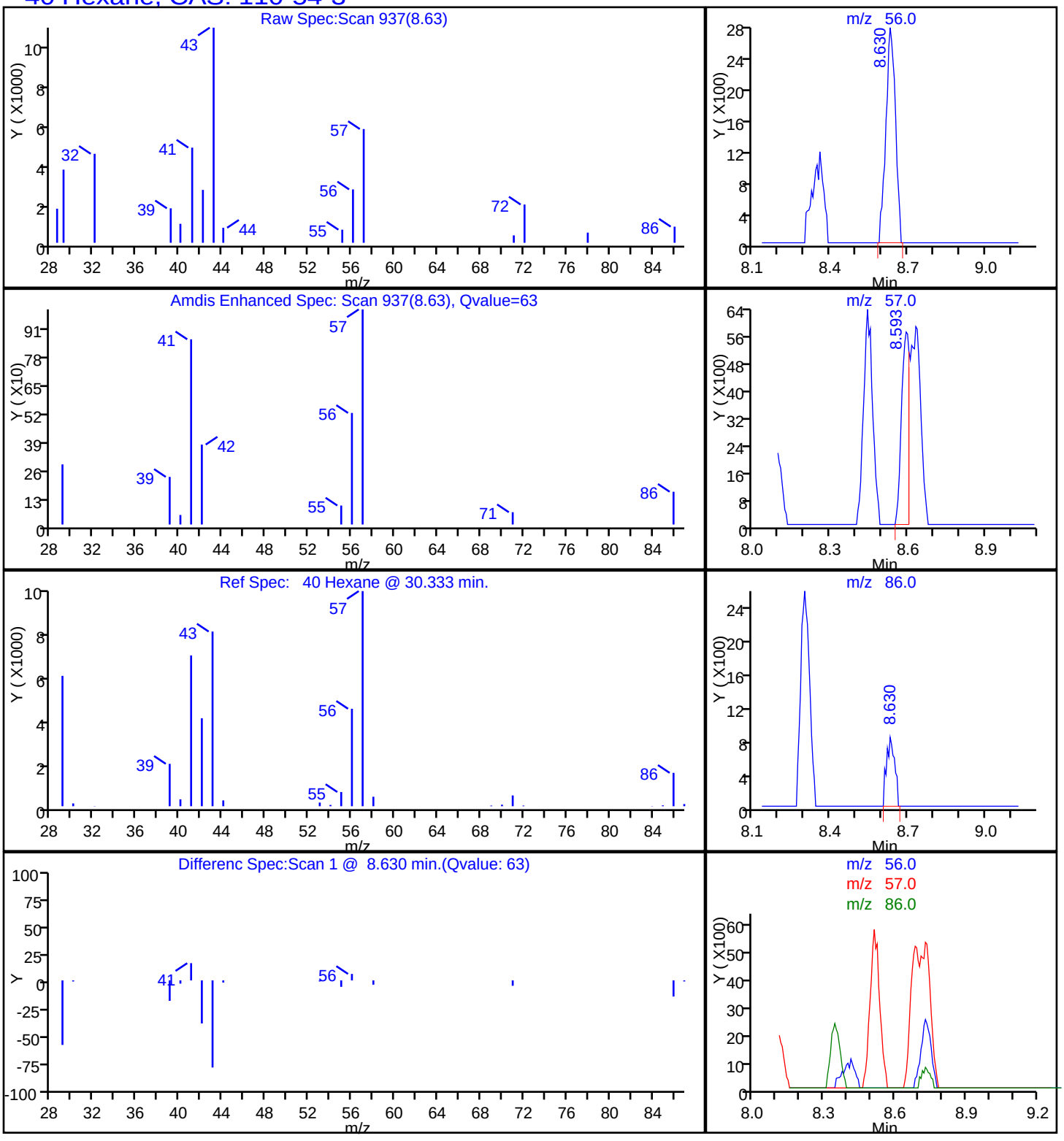
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



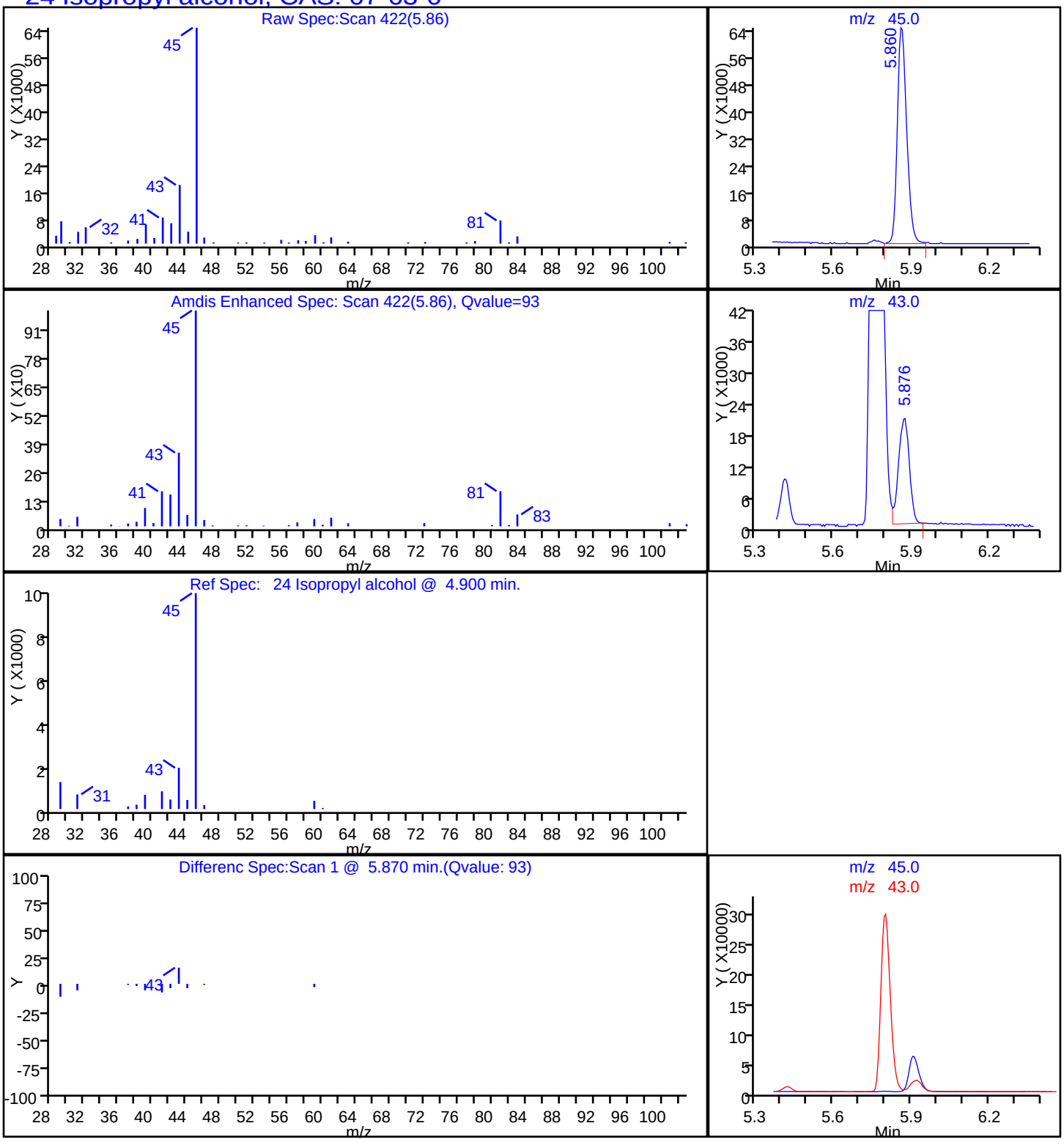
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



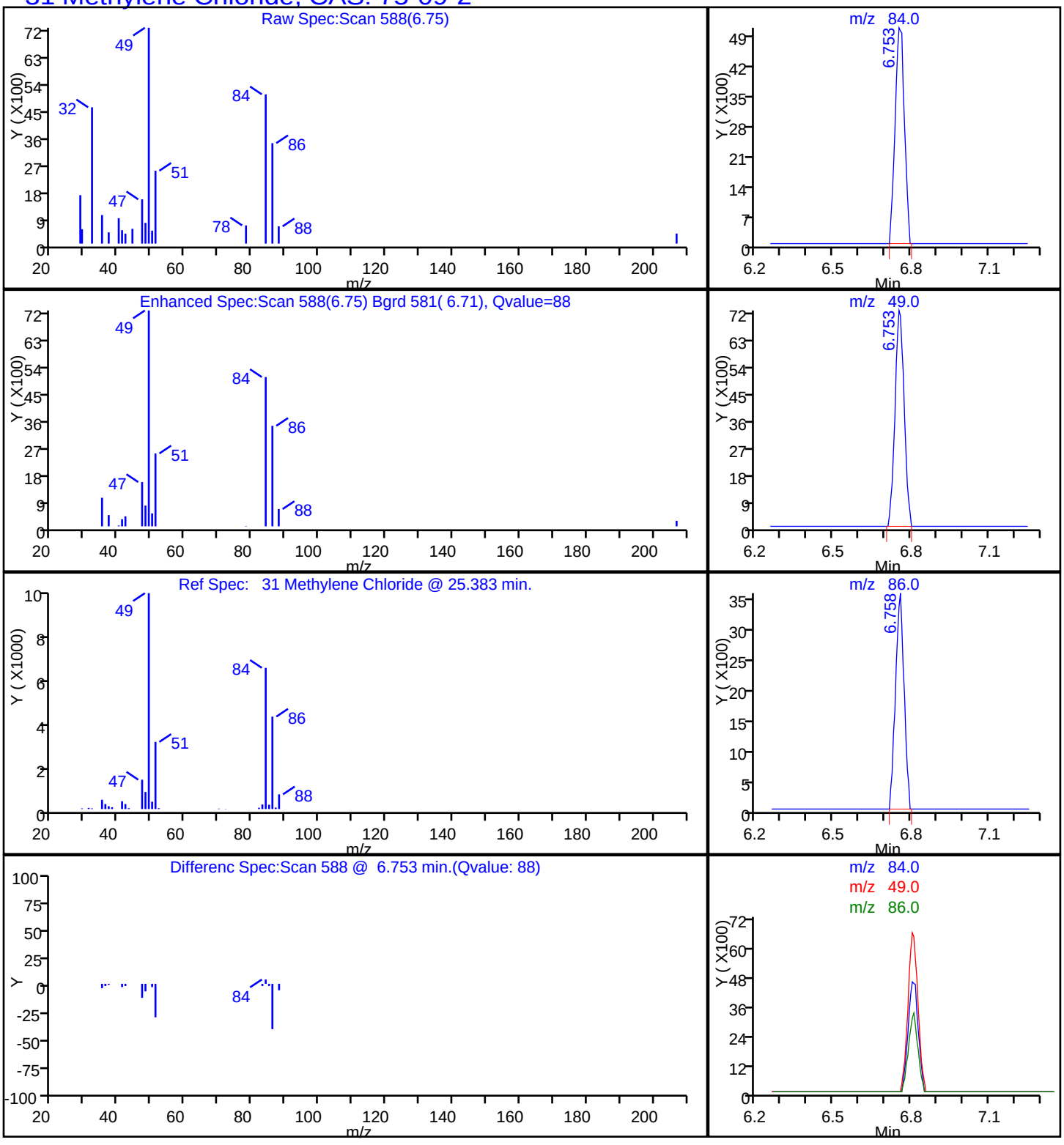
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



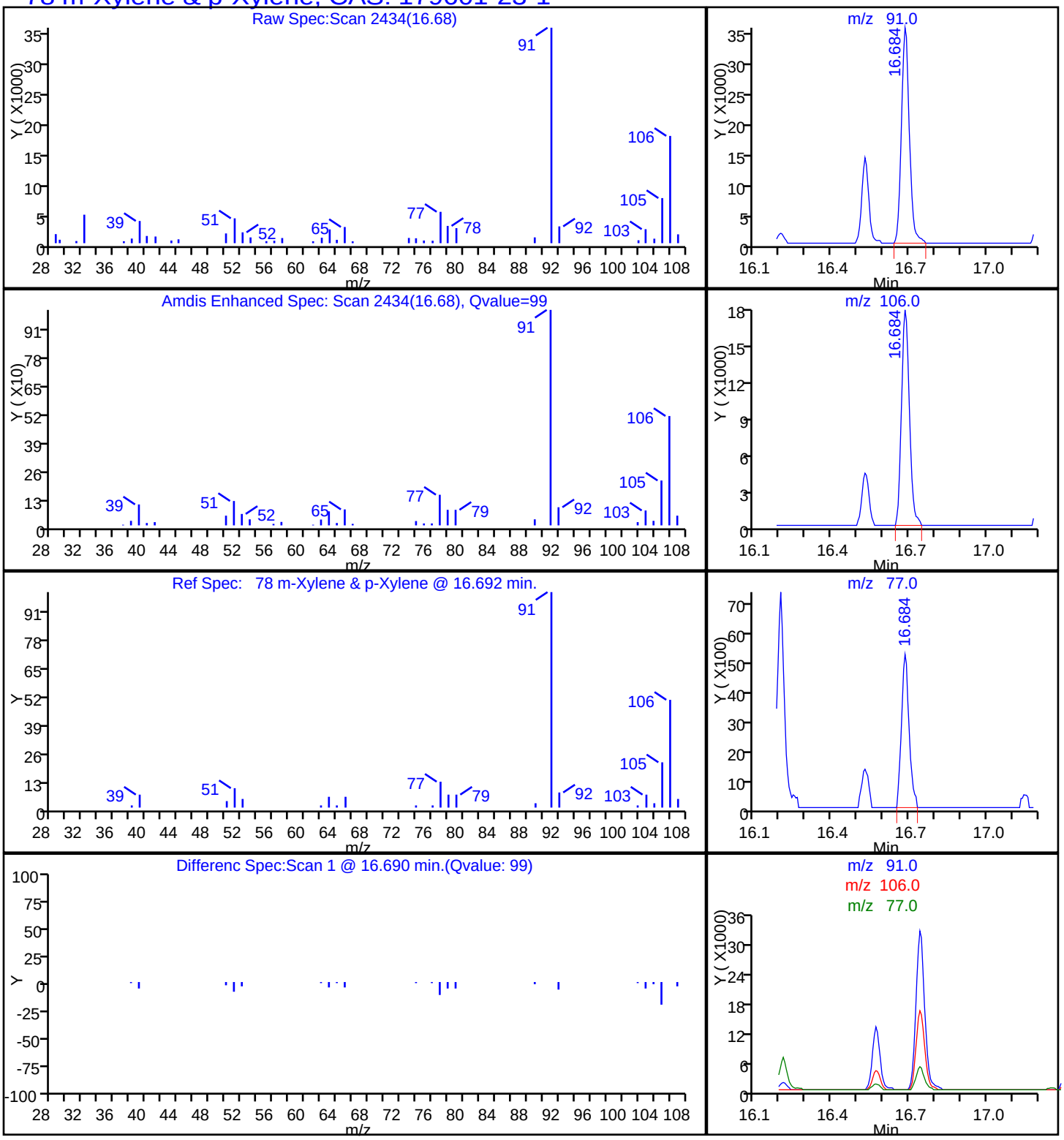
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



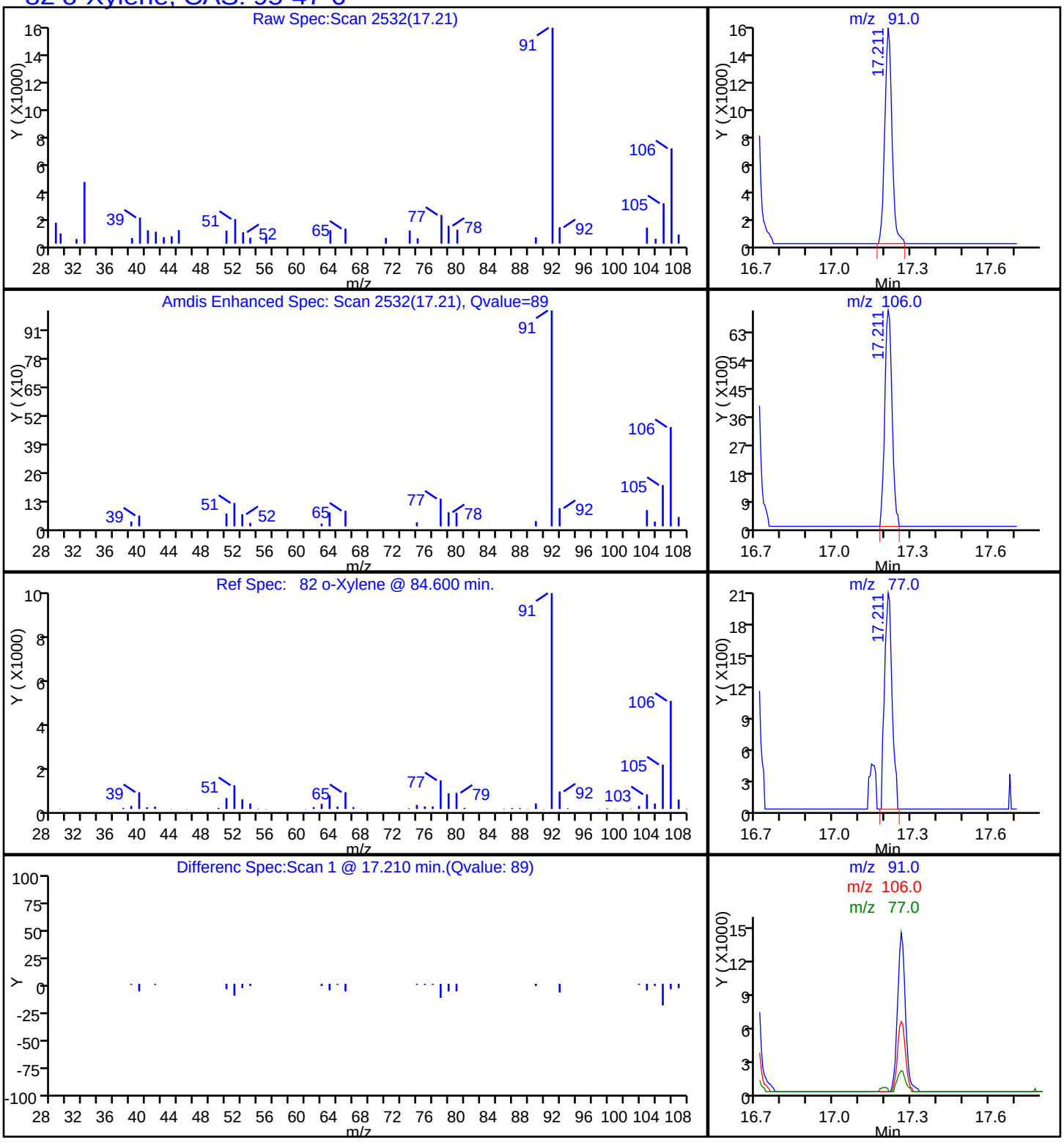
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



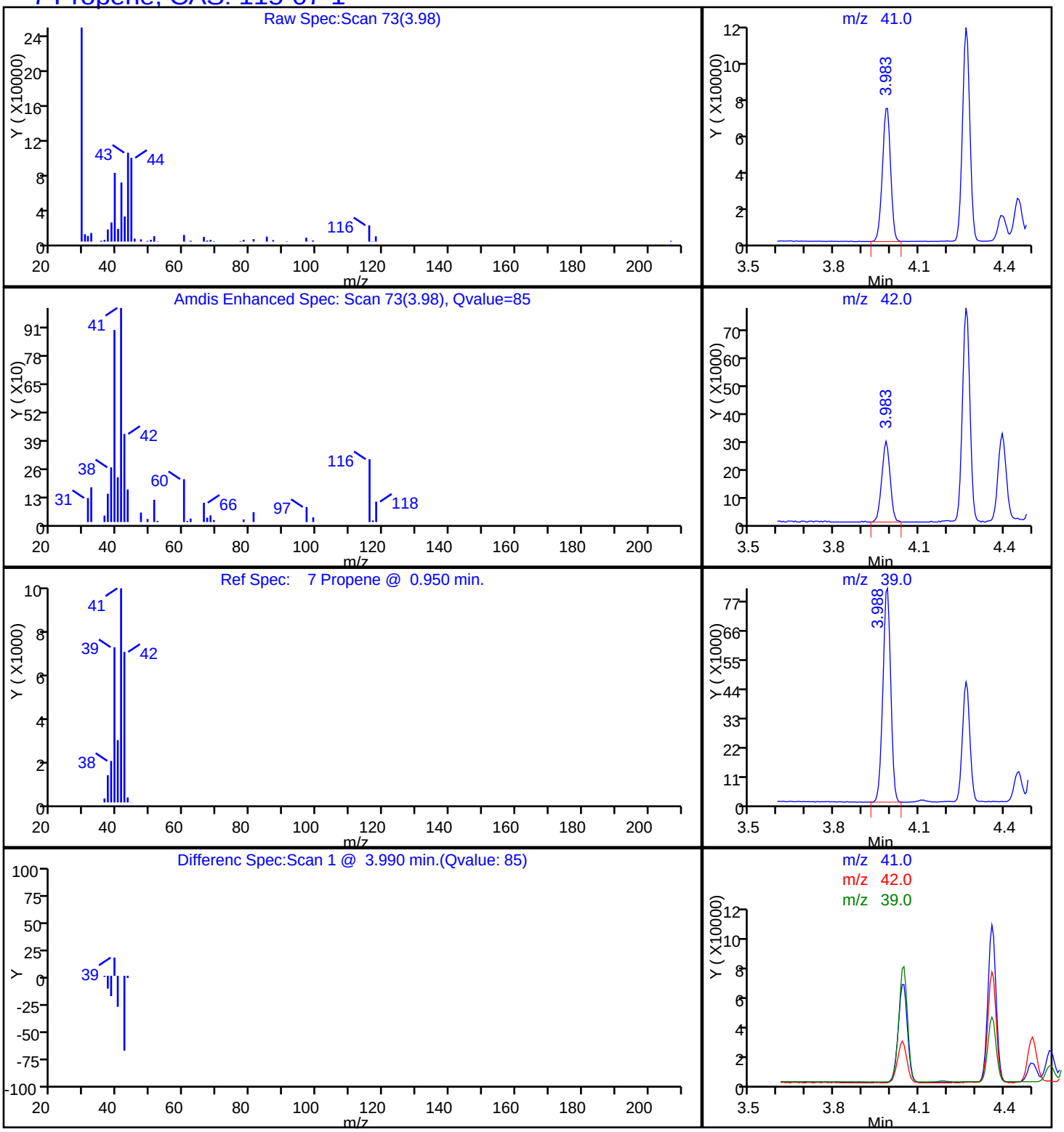
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



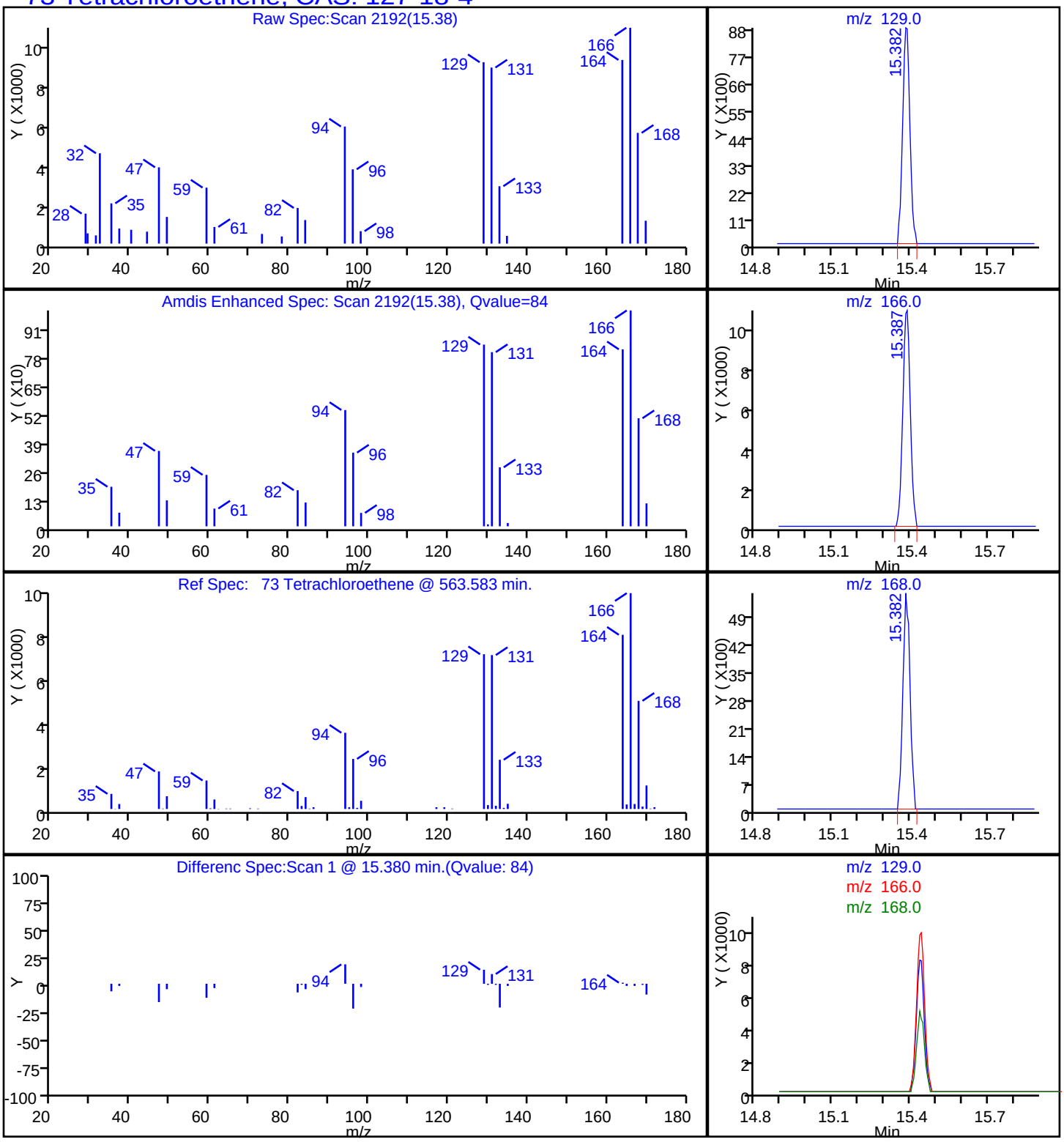
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



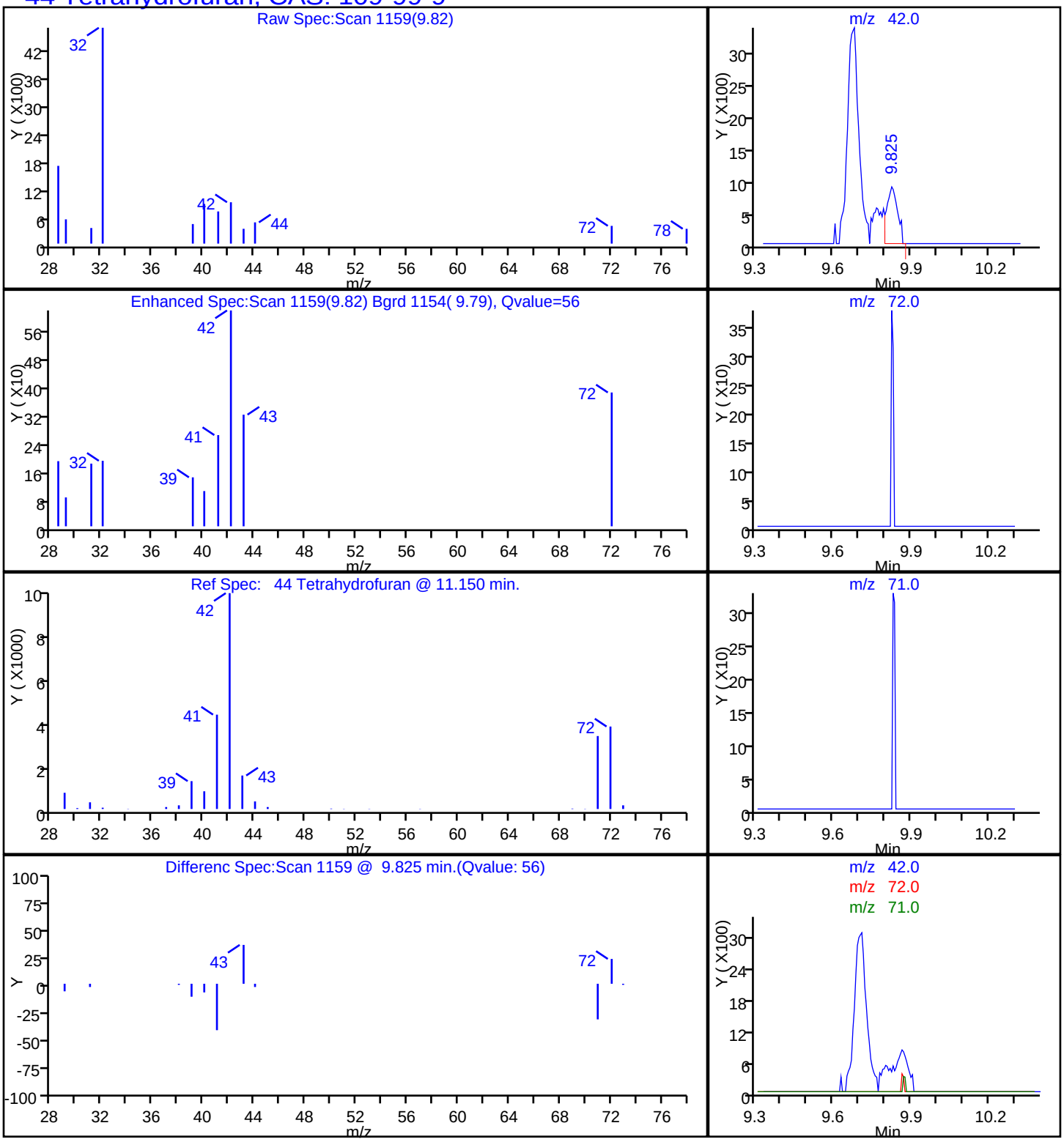
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15
Client ID:	IA3-E14		
Operator ID:	403648	ALS Bottle#:	2 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9



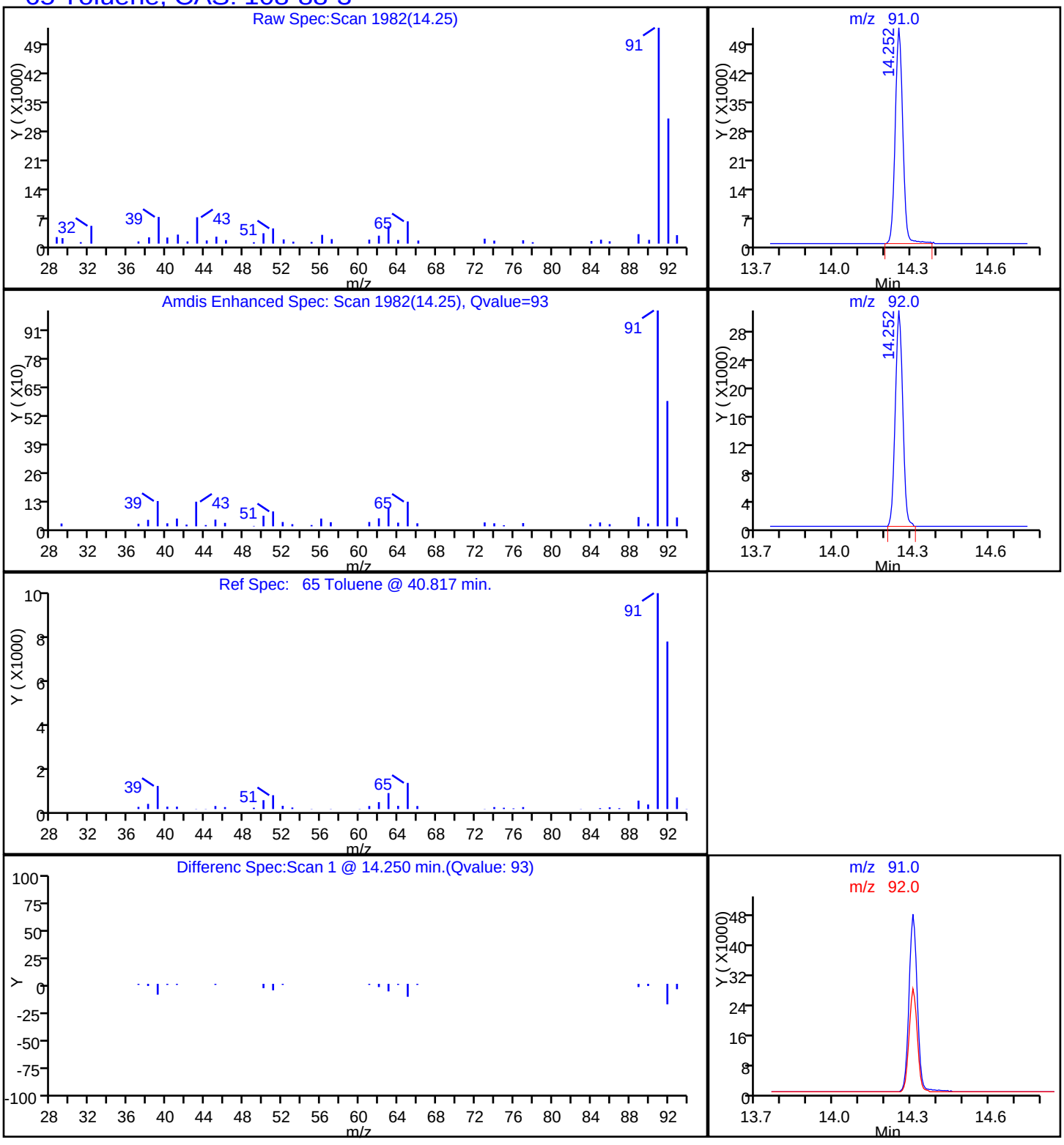
Report Date: 20-Mar-2014 14:55:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



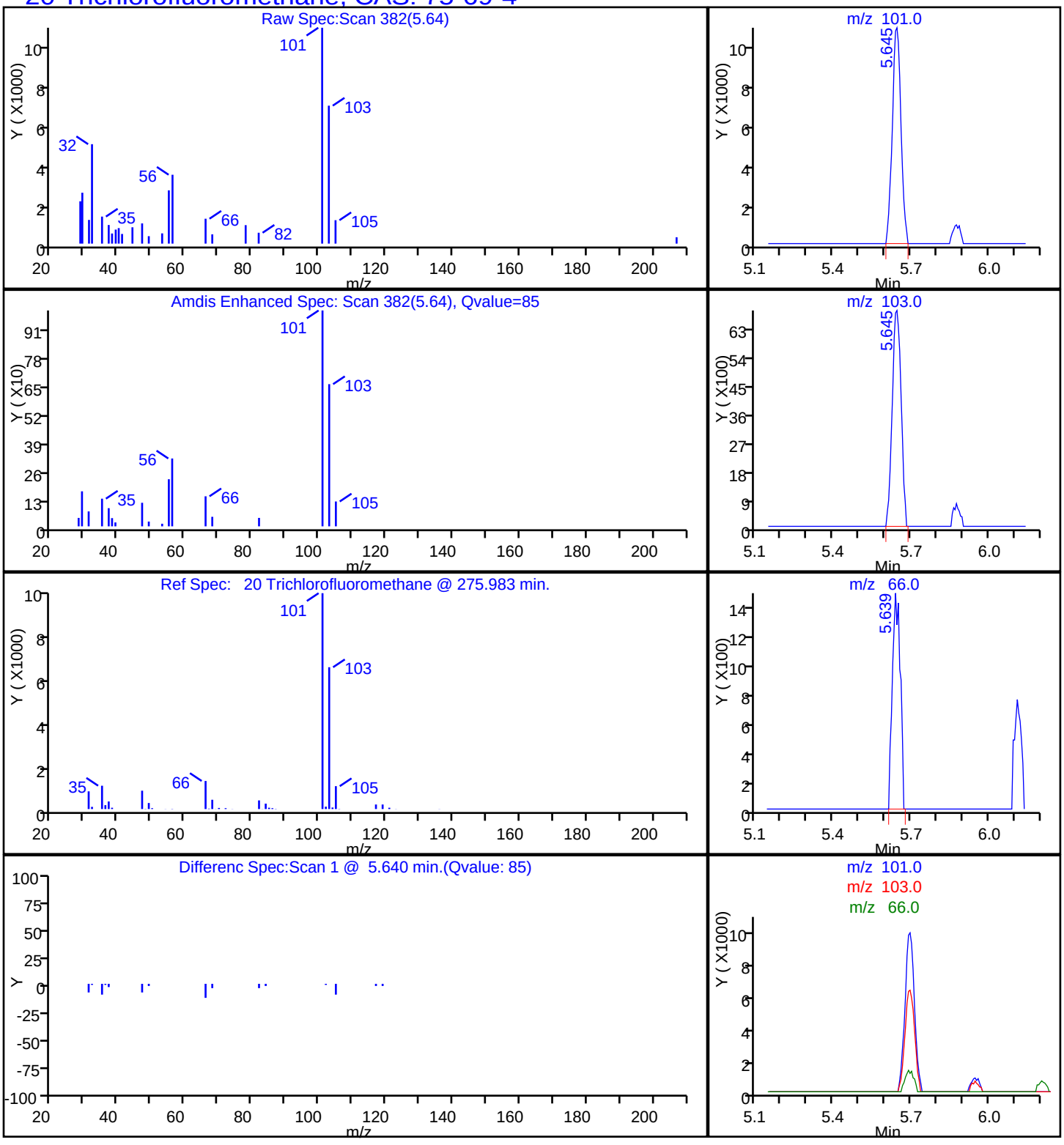
Report Date: 20-Mar-2014 14:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date:	18-Mar-2014 20:05:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-15	Lab Sample ID:	140-1063-15		
Client ID:	IA3-E14				
Operator ID:	403648	ALS Bottle#:	2	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.8400		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16

Matrix: Air Lab File ID: JC18P203.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.074	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.52		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.13	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	3.1		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.9		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.27		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.30	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	0.50	0.045
67-64-1	*Acetone*	*58.08*	*270*	*E*	*5.0*	*1.4*
71-43-2	Benzene	78.11	0.41		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.13	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 | Lab Sample ID: 140-1063-16

Matrix: Air | Lab File ID: JC18P203.D

Analysis Method: TO-15 | Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) | Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 971 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.073	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.053	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*200*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	4.6		0.20	0.068
142-82-5	Heptane	100.21	0.39	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.35	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.3		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	14		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	19		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	5.2		0.20	0.061
115-07-1	Propene	42.08	31	cn	0.50	0.077
100-42-5	Styrene	104.15	0.93		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	*Toluene*	*92.14*	*130*	*E*	*0.20*	*0.12*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.057	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16

Matrix: Air Lab File ID: JC18P203.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16

Matrix: Air Lab File ID: JC18P203.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.57	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.5		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.66	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.68	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	9.2		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	8.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.94		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.5	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.8	J	2.0	0.18
67-64-1	*Acetone*	*58.08*	*640*	*E*	*12*	*3.3*
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.39	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 | Lab Sample ID: 140-1063-16

Matrix: Air | Lab File ID: JC18P203.D

Analysis Method: TO-15 | Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) | Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 971 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.26	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.42	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*390*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	20		0.87	0.30
142-82-5	Heptane	100.21	1.6	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.2	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	10		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	50		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	81		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	23		0.87	0.26
115-07-1	Propene	42.08	53	cn	0.86	0.13
100-42-5	Styrene	104.15	4.0		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	*Toluene*	*92.14*	*500*	*E*	*0.75*	*0.45*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.31	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16

Matrix: Air Lab File ID: JC18P203.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D
Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16
Client ID: PCV-IA1-B5
Sample Type: Client
Inject. Date: 18-Mar-2014 21:00:30 ALS Bottle#: 3 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-16
Misc. Info.: J031814,TO15,,140-0000527-024
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:03:04 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 12:08:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.388	0.005	90	342541	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1565611	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.198	0.005	87	1280677	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	872985	3.85	
7 Propene	41	3.987	3.971	0.016	67	1301333	12.4	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	59647	0.1758	
9 Chloromethane	52	4.229	4.229	0.0	96	9158	0.2376	M
17 Ethanol	31	5.132	5.116	0.016	93	2254102	82.0	E
19 2-Methylbutane	43	5.412	5.407	0.005	92	167364	1.15	
20 Trichlorofluoromethane	101	5.649	5.644	0.005	88	26391	0.0885	
23 Acetone	58	5.762	5.767	-0.005	95	5282794	108.5	E
24 Isopropyl alcohol	45	5.869	5.848	0.021	71	219644	1.71	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.580	0.005	52	6104	0.0296	
31 Methylene Chloride	84	6.768	6.757	0.011	96	527076	5.75	
33 Carbon disulfide	76	6.940	6.935	0.005	97	16218	0.0503	
35 2-Methylpentane	43	7.623	7.623	0.0	92	28194	0.1067	
39 2-Butanone (MEK)	72	8.597	8.586	0.011	100	40517	1.25	
40 Hexane	56	8.634	8.635	-0.001	88	12784	0.1388	
43 Chloroform	83	9.409	9.393	0.016	4	4248	0.0213	
48 Benzene	78	11.028	11.023	0.005	95	44016	0.1639	
49 Cyclohexane	69	11.028	11.034	-0.006	39	2579	0.0487	
50 Carbon tetrachloride	117	11.055	11.050	0.005	87	6455	0.0291	
53 Isooctane	57	11.765	11.760	0.005	83	26650	0.0581	
54 n-Heptane	71	12.120	12.120	0.0	83	14842	0.1562	
56 Trichloroethene	130	12.244	12.244	0.0	44	2993	0.0230	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.368	0.011	88	29001	0.1767	
65 Toluene	91	14.256	14.256	0.0	94	12699298	53.5	E
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	6786	0.0613	
76 Ethylbenzene	91	16.531	16.532	-0.001	98	479803	1.83	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	99	1576673	7.45	
80 Styrene	104	17.150	17.150	0.0	98	53996	0.3713	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.215	17.215	0.0	99	444969	2.07	
88 4-Ethyltoluene	105	18.452	18.447	0.005	62	34415	0.1207	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	81	7689	0.0536	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	96	51280	0.2062	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

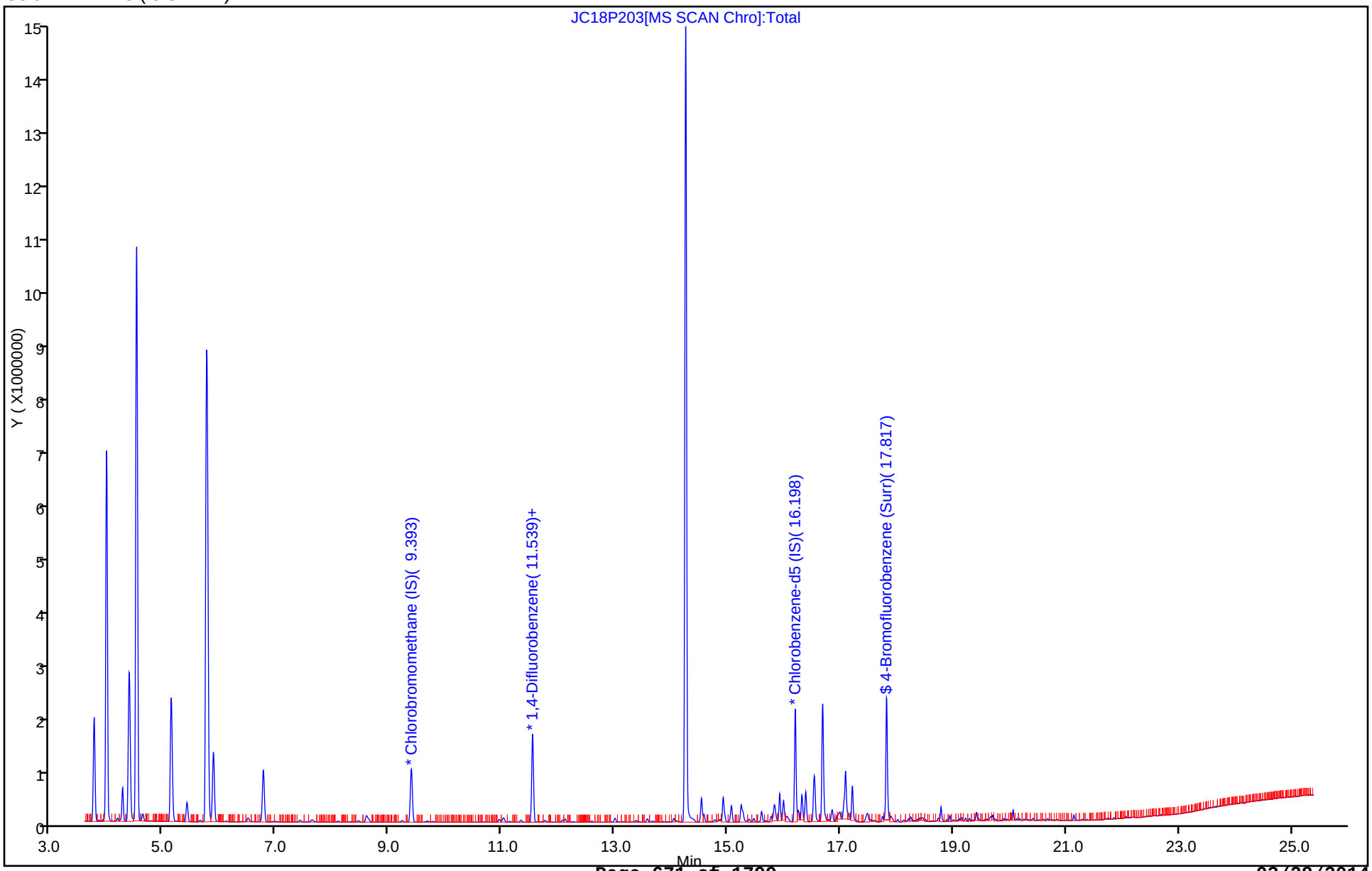
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16	Worklist Smp#:	24
Client ID:	PCV-IA1-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



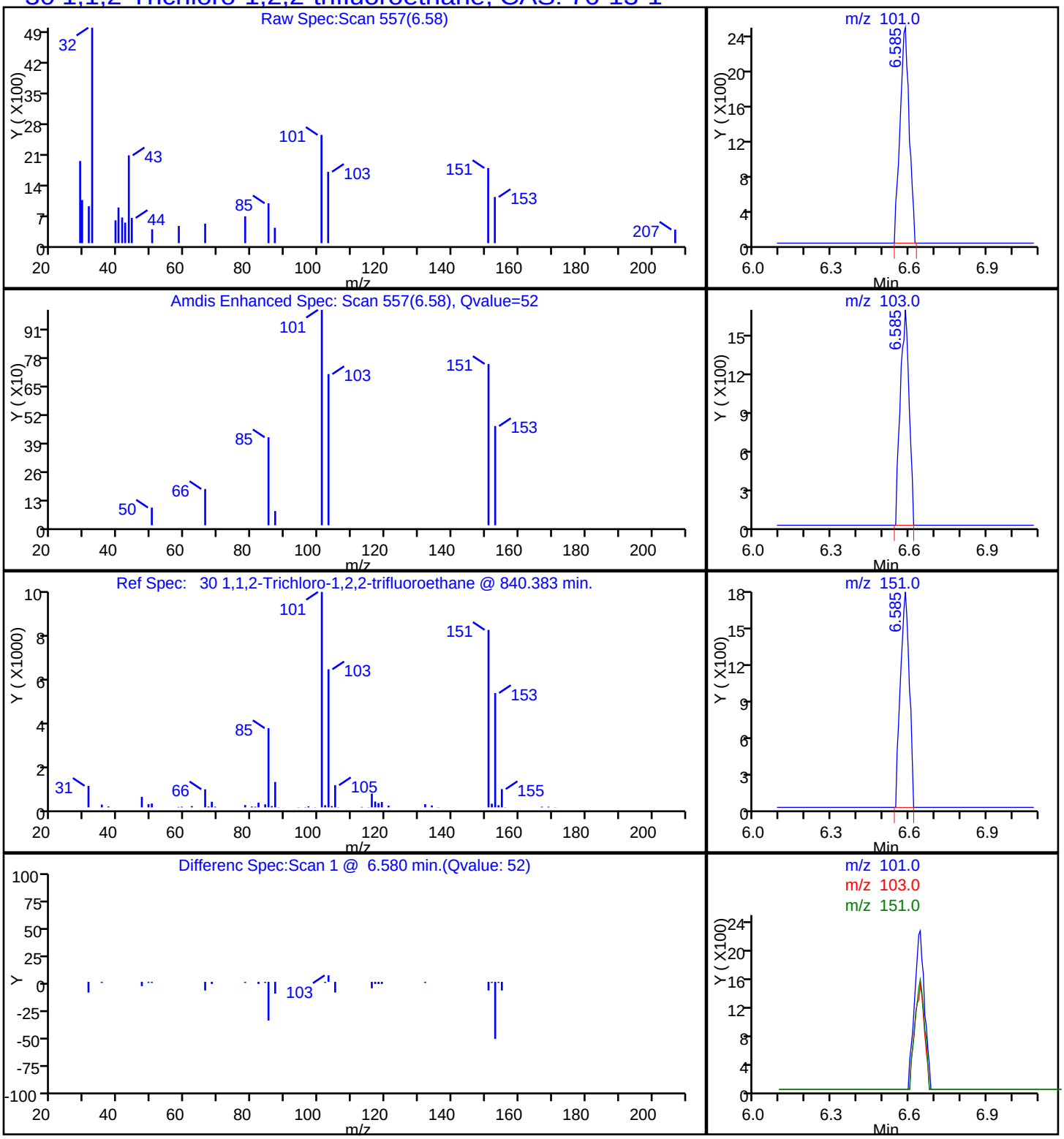
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

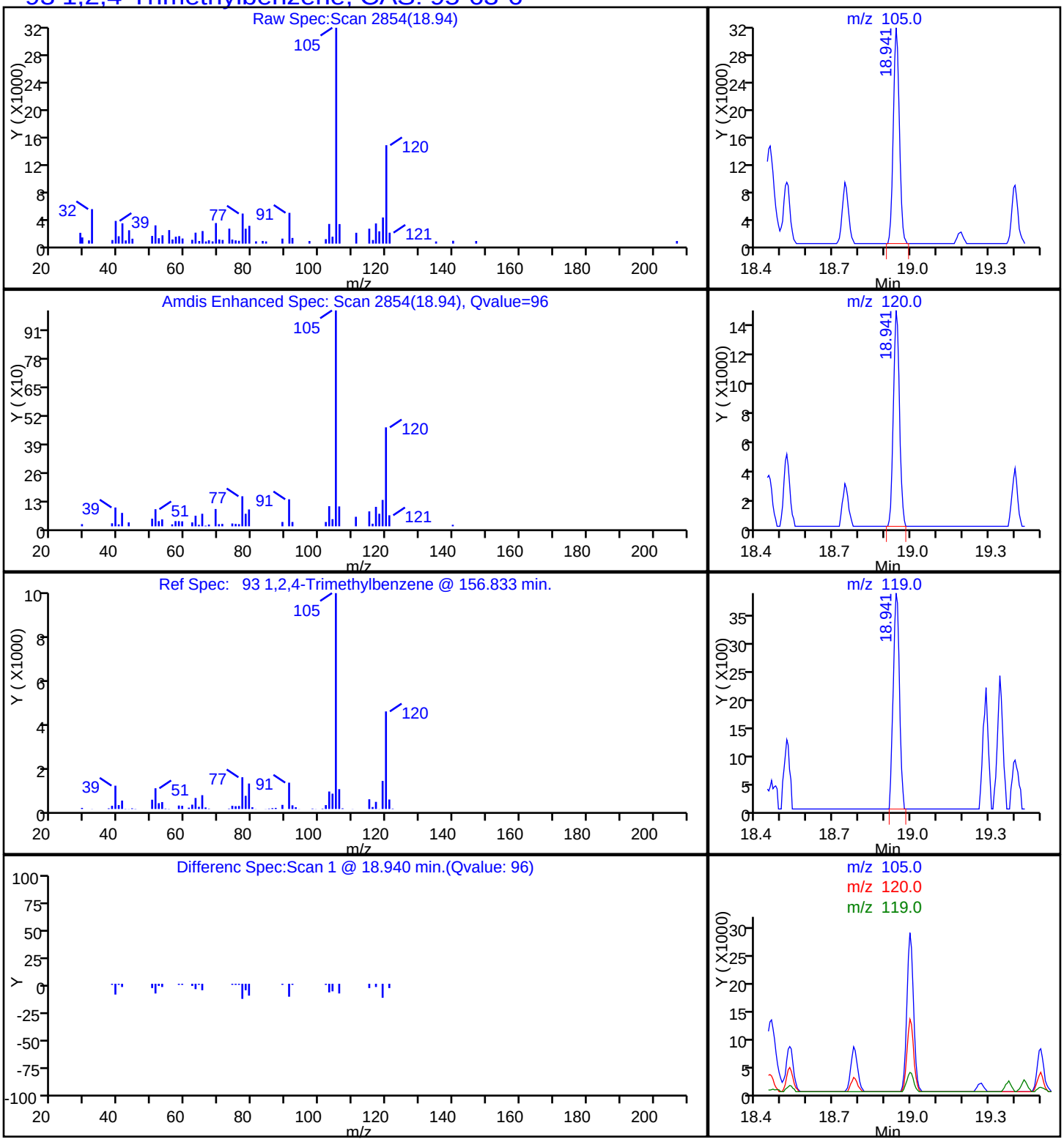


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

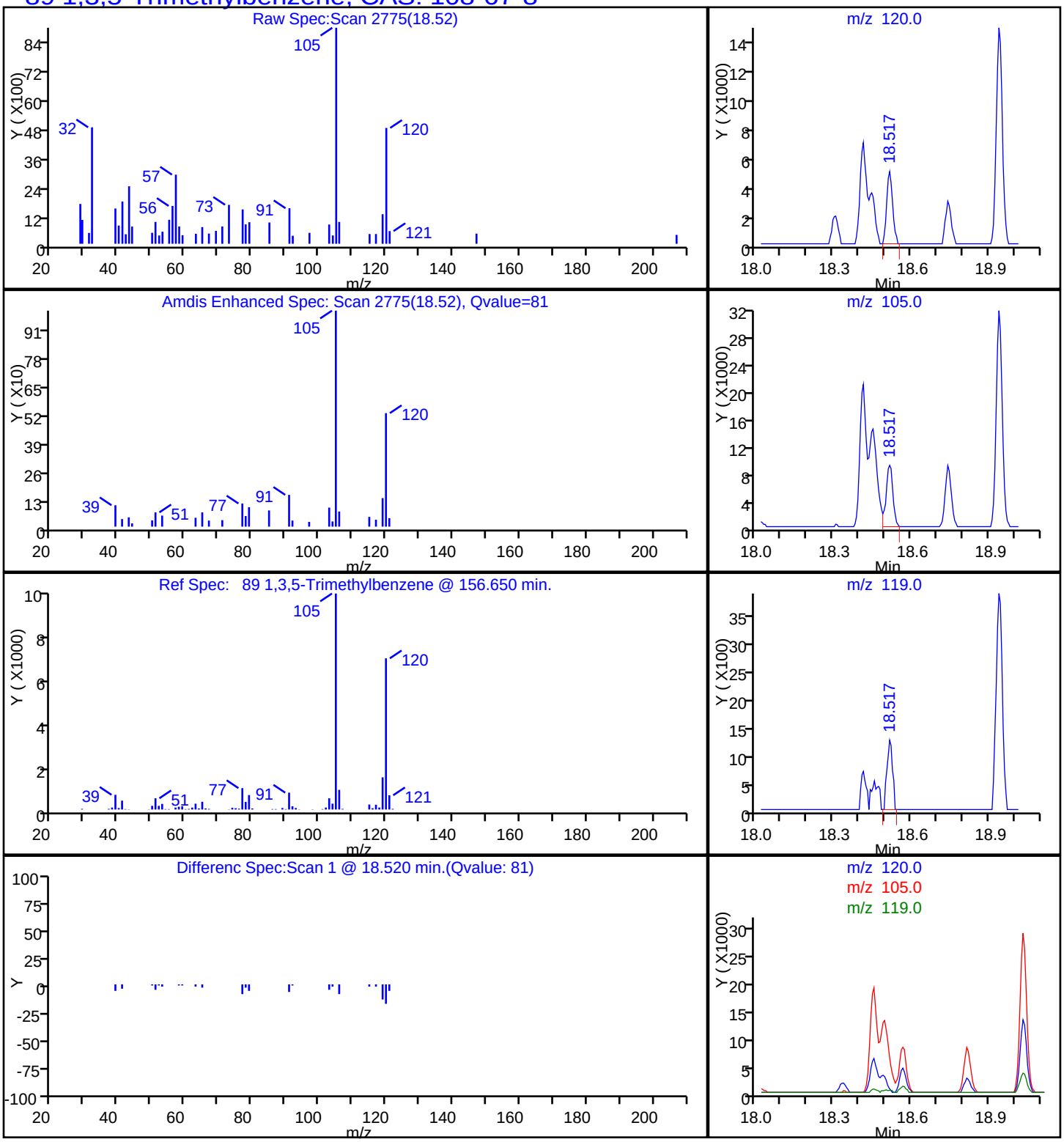


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



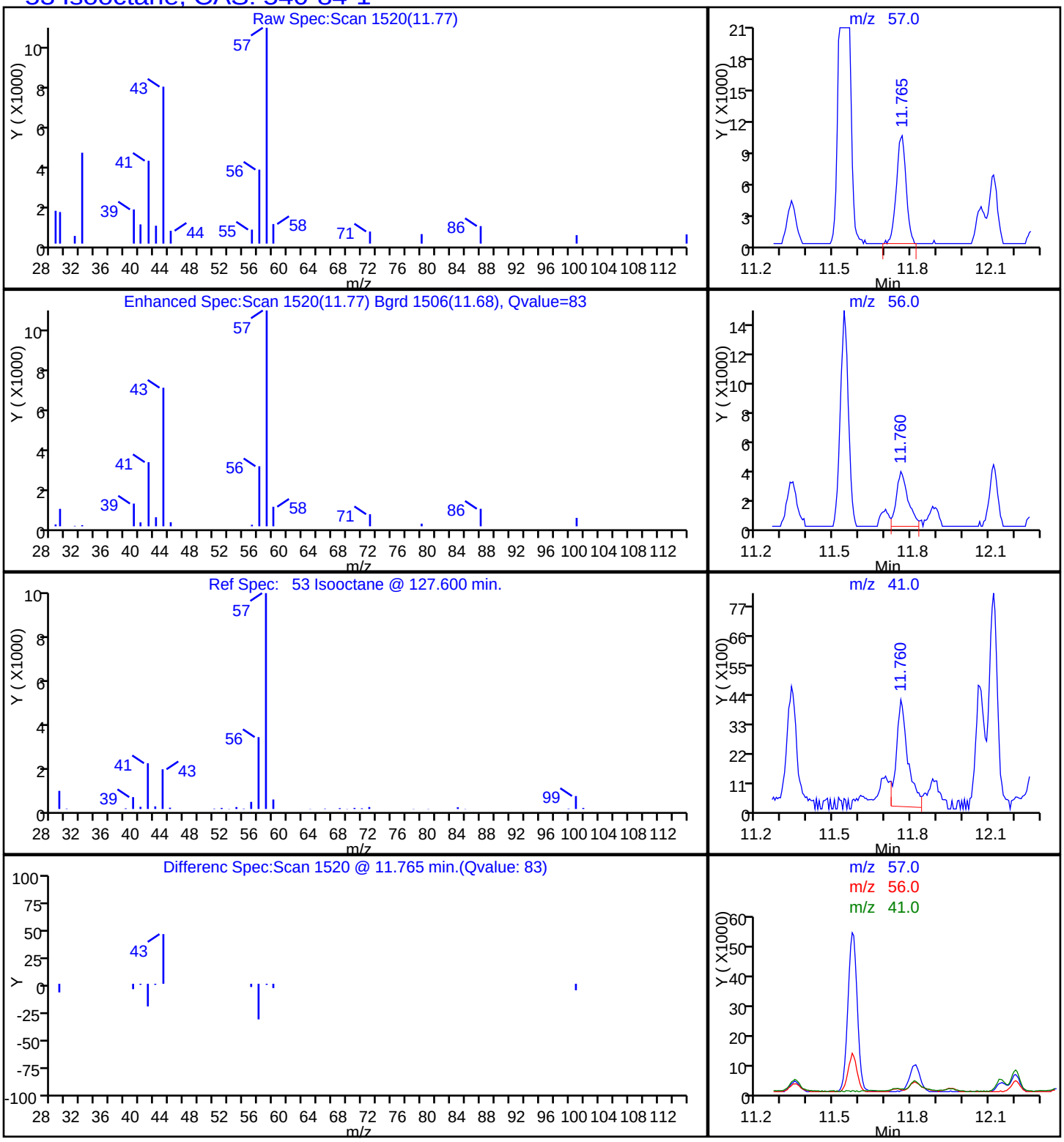
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



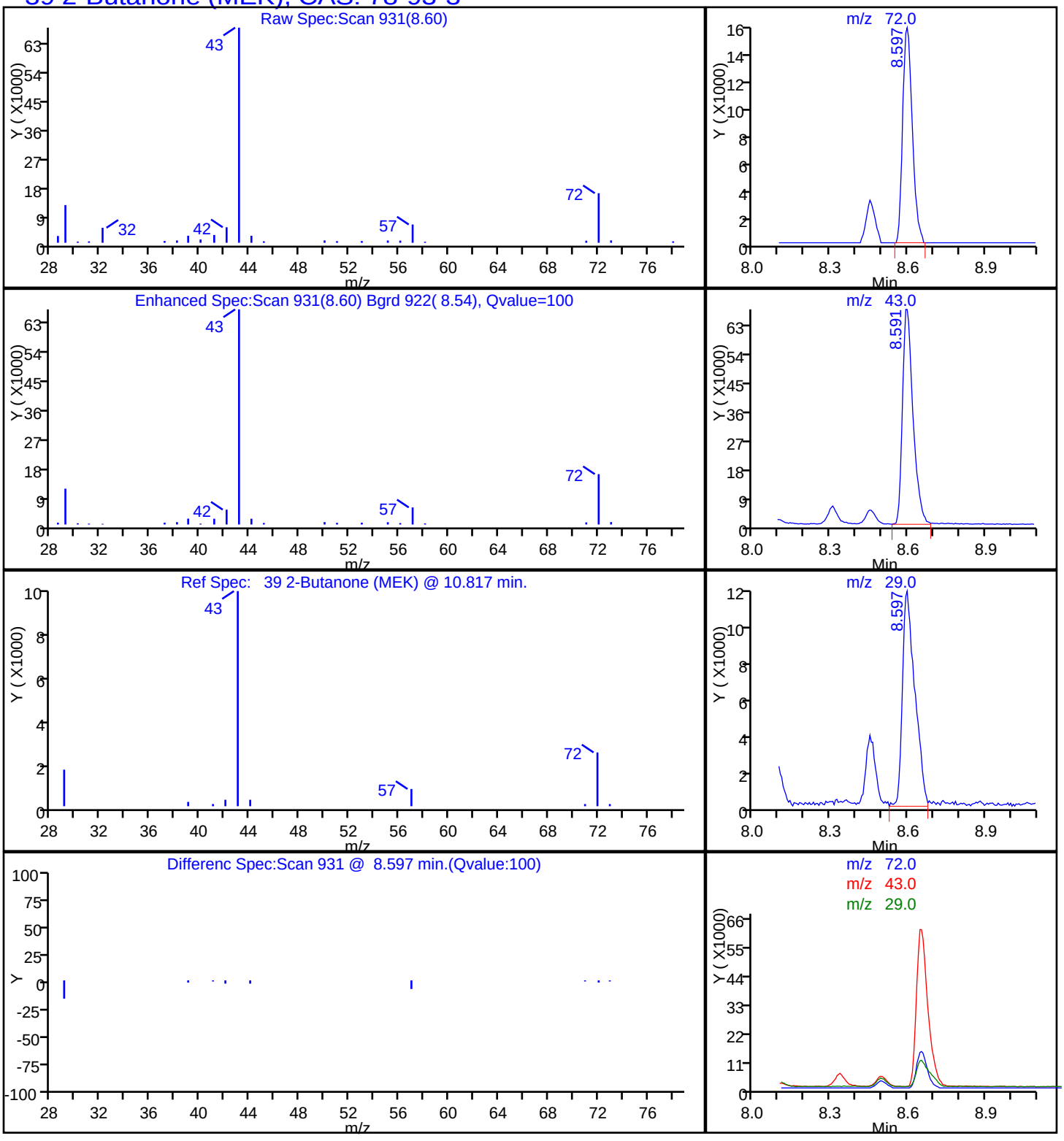
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



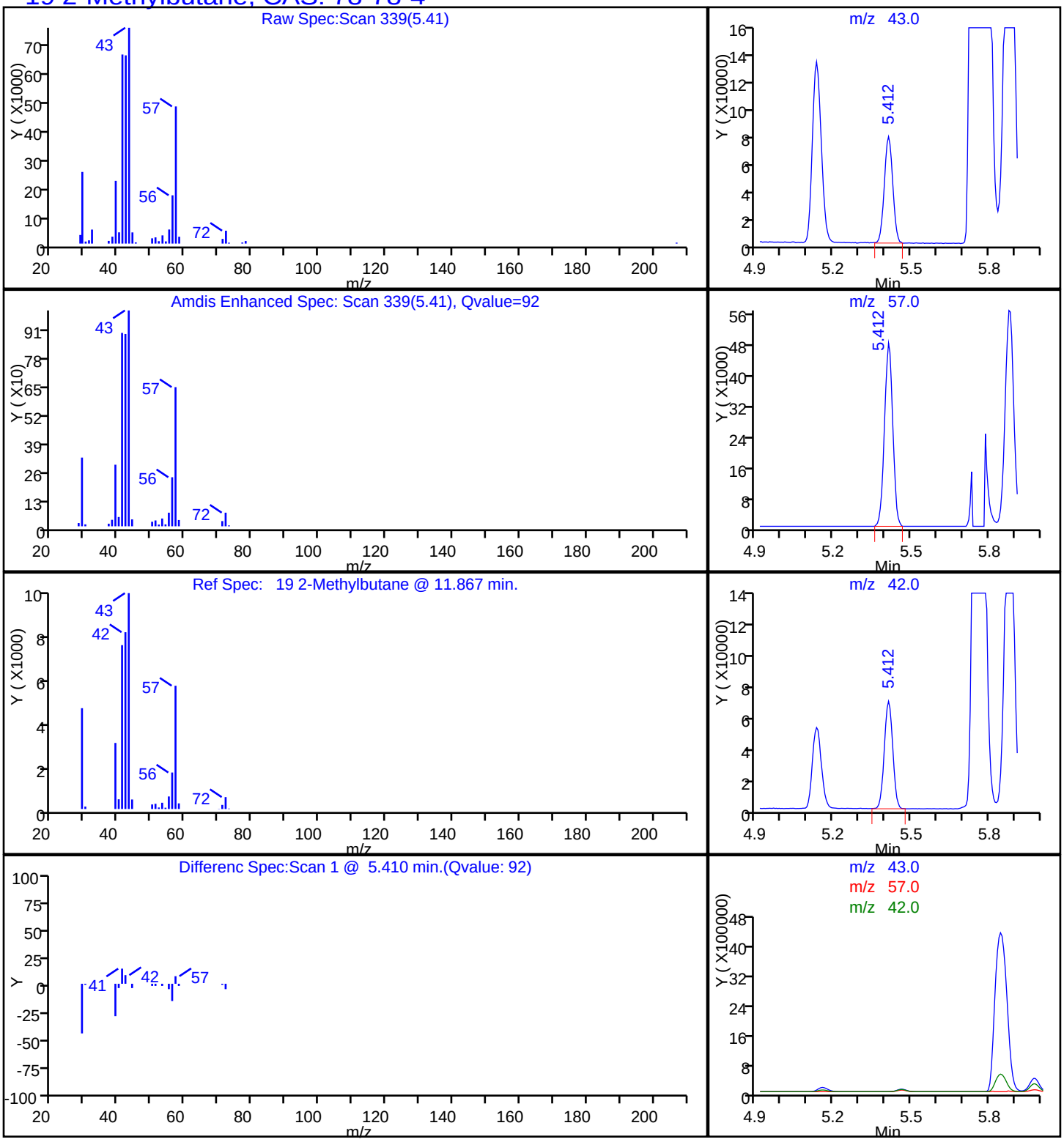
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

19 2-Methylbutane, CAS: 78-78-4



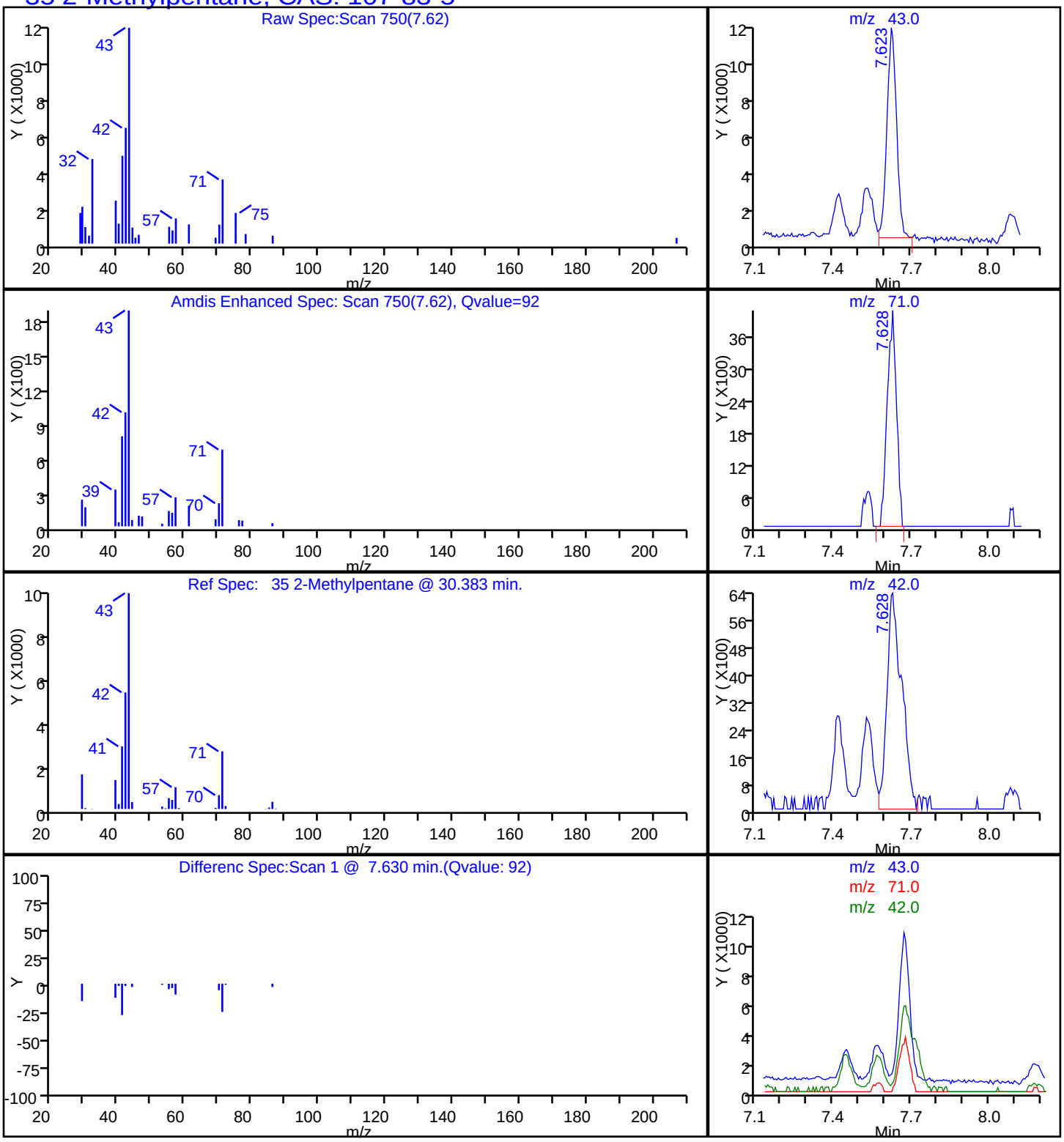
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	3 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5



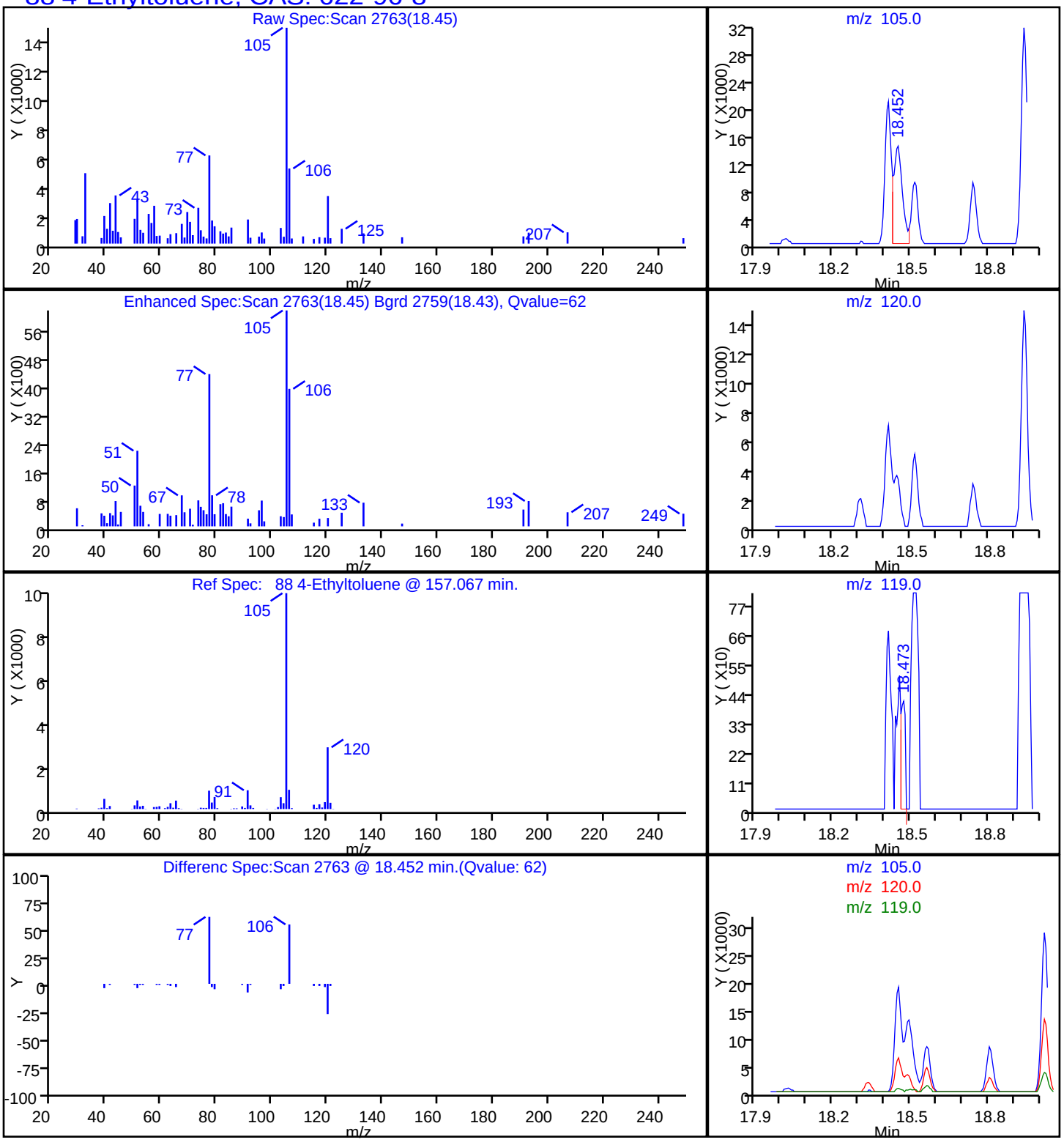
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8



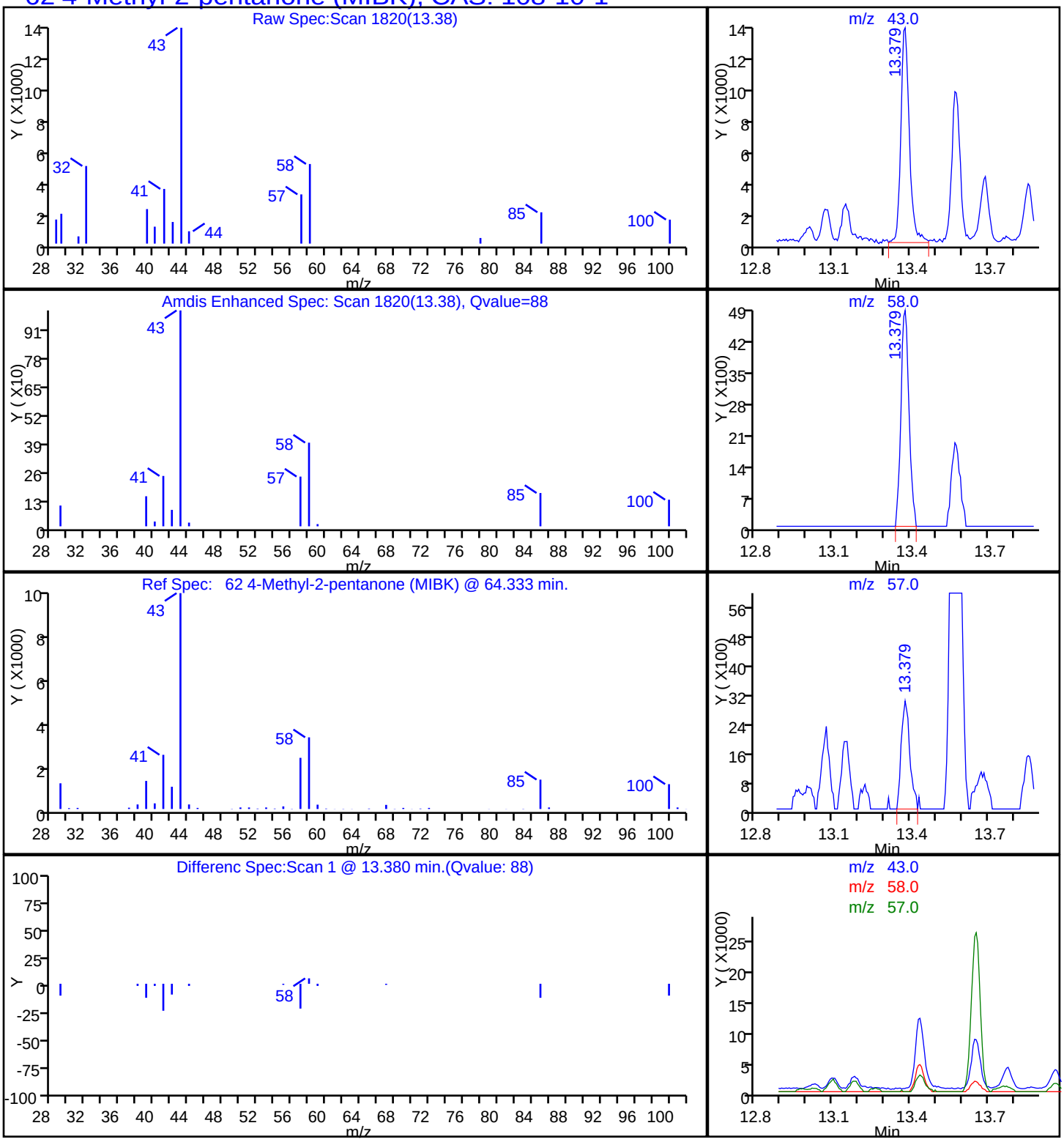
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



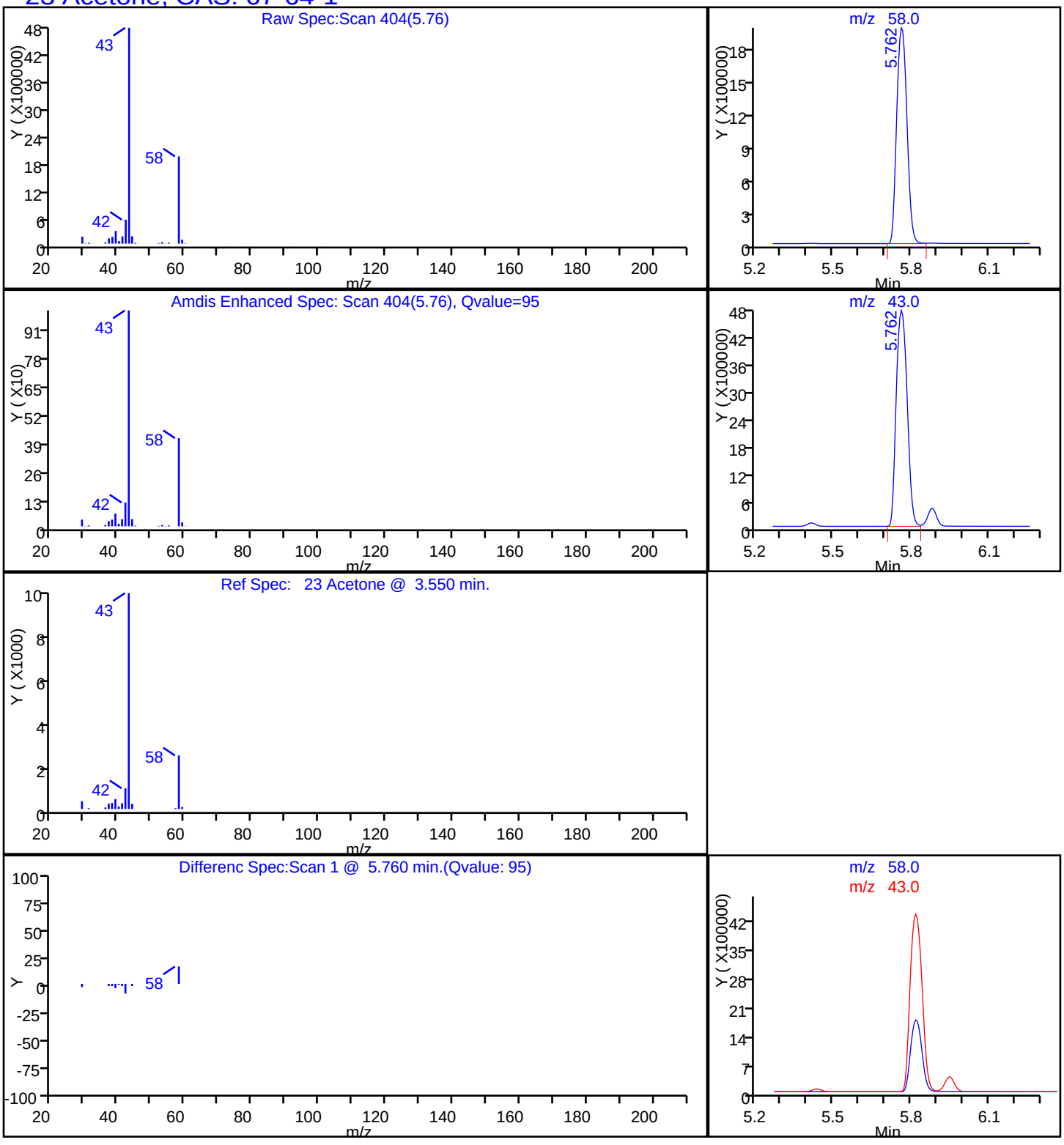
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



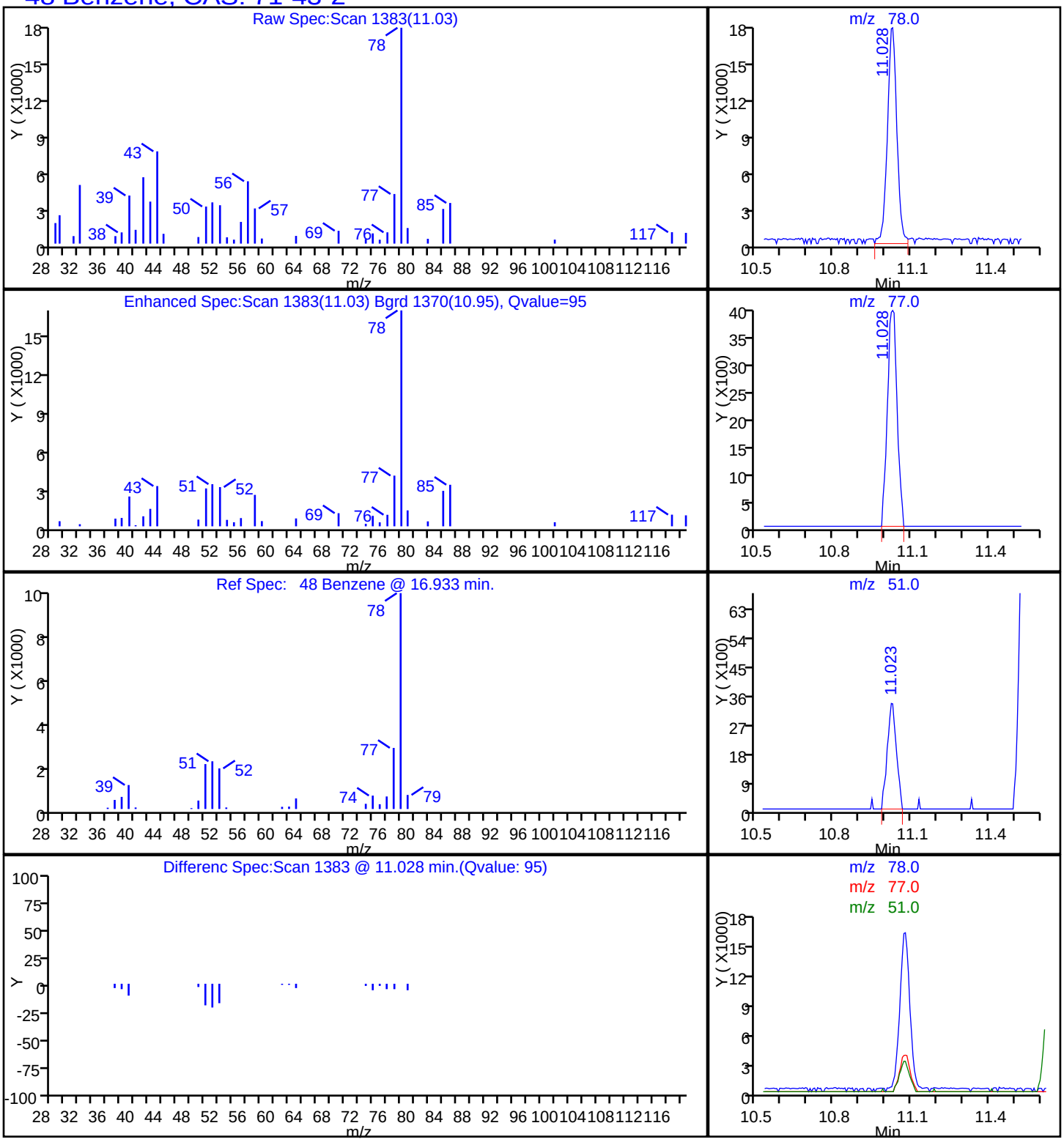
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



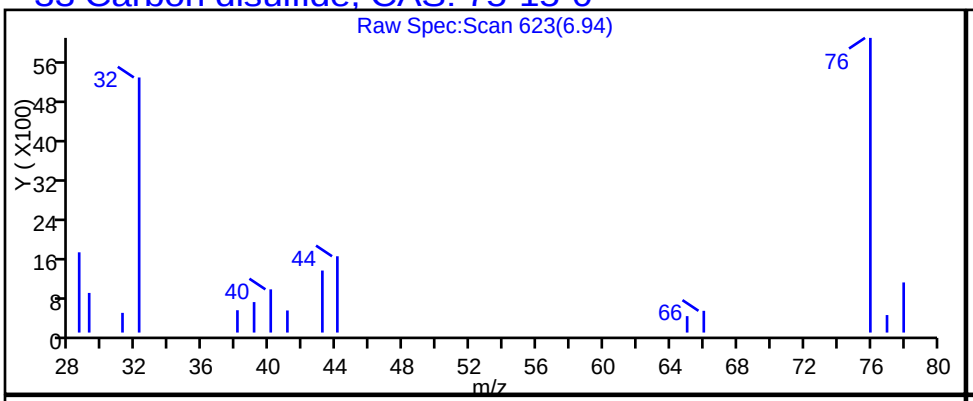
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

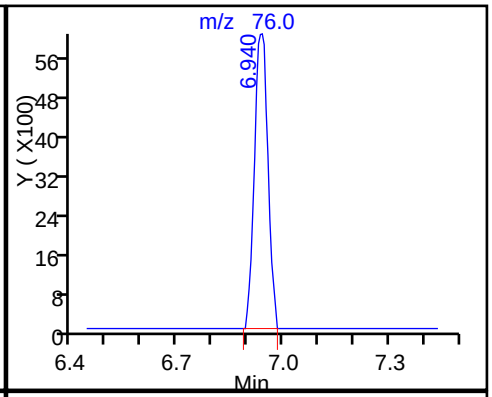
TestAmerica Knoxville

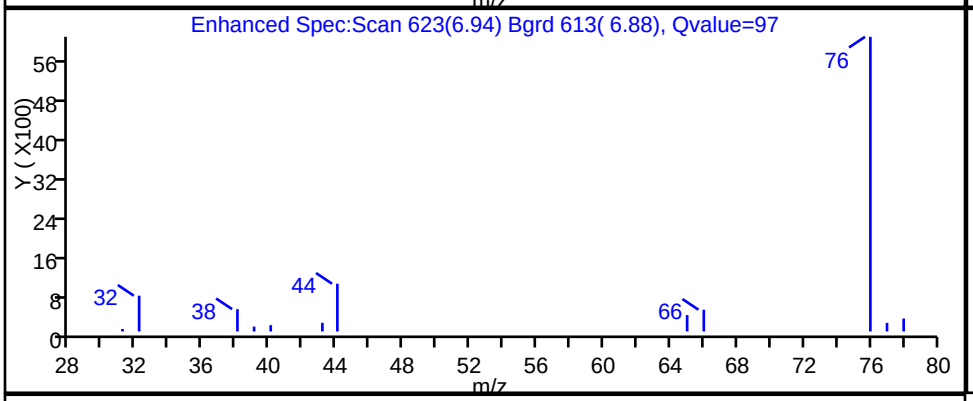
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

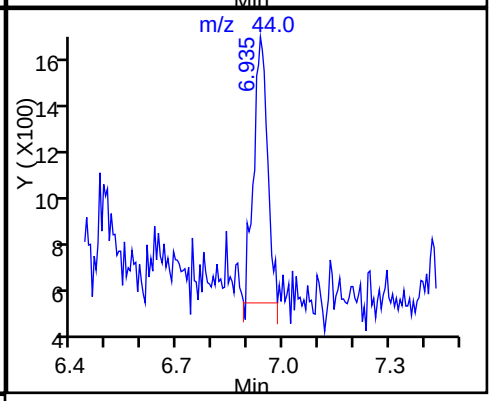
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	3 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

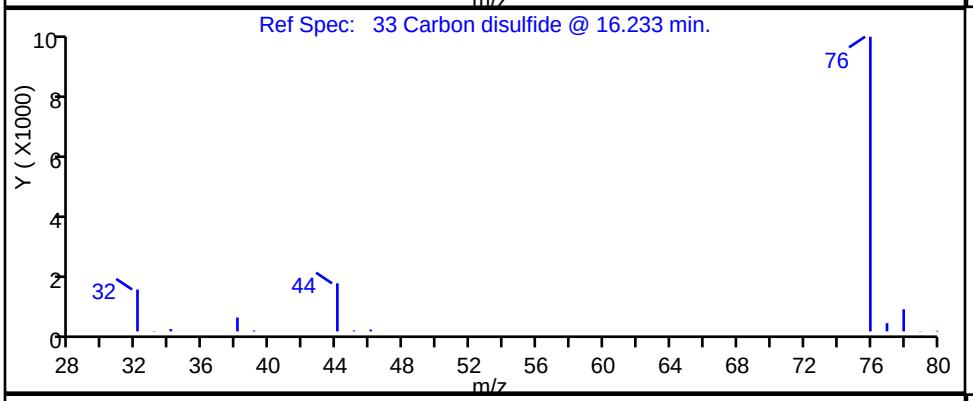
33 Carbon disulfide, CAS: 75-15-0

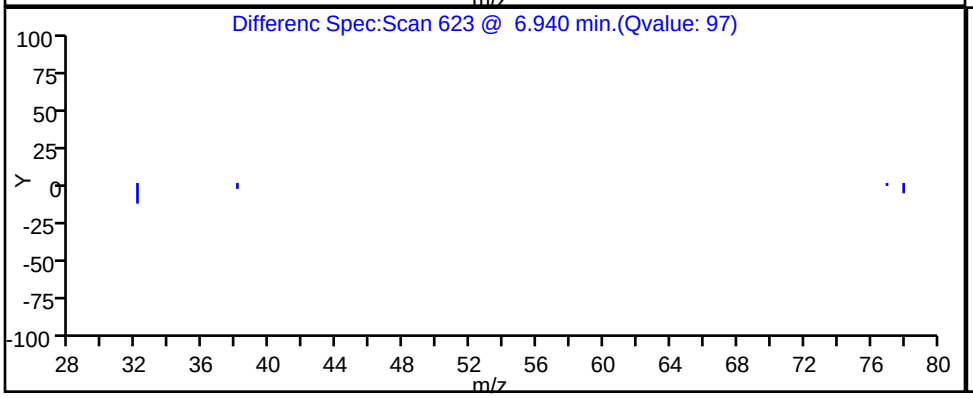


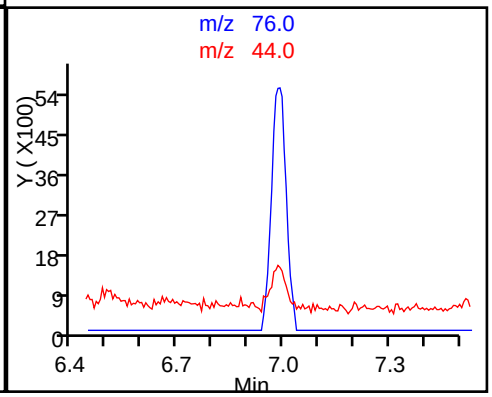












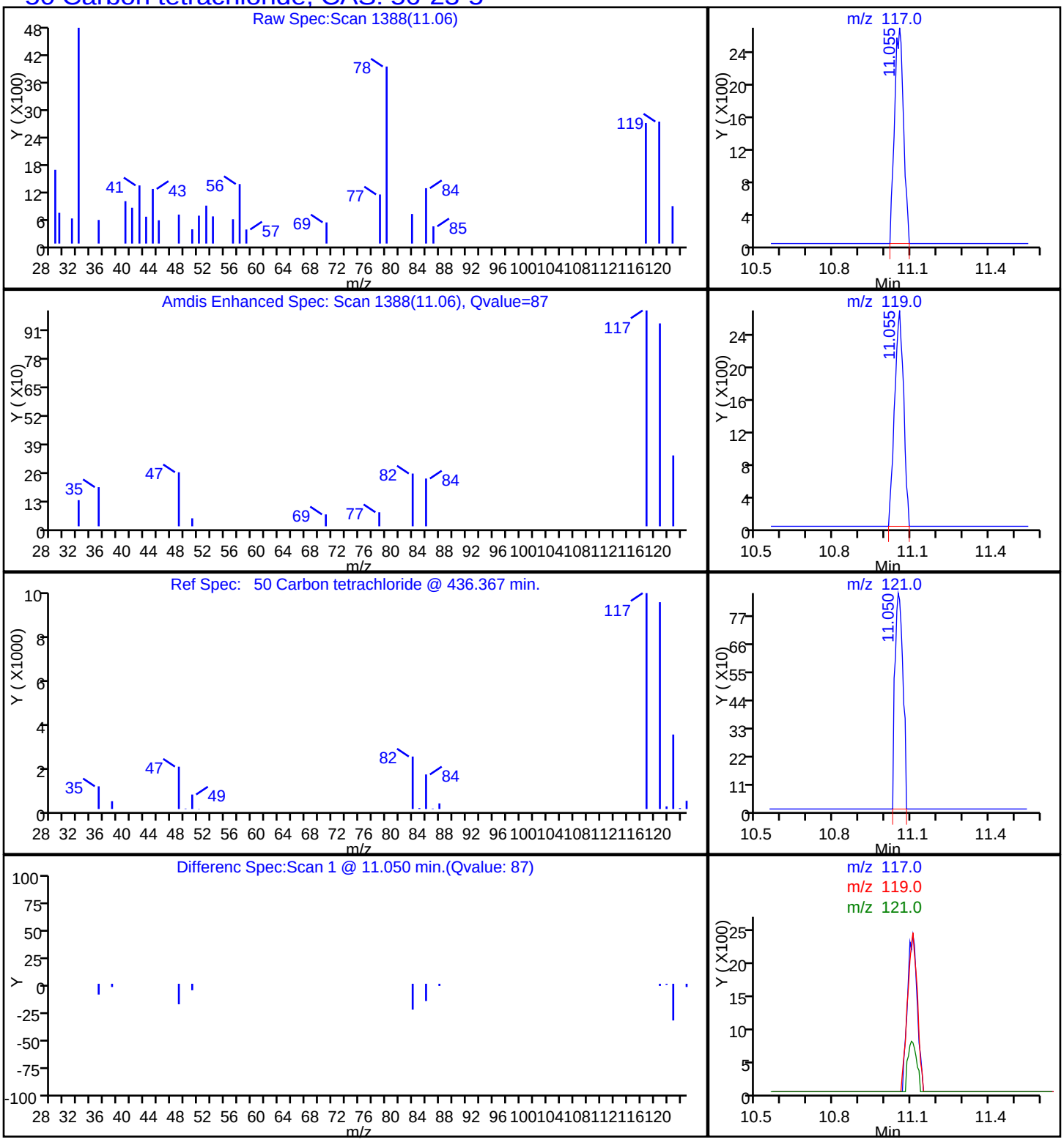
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



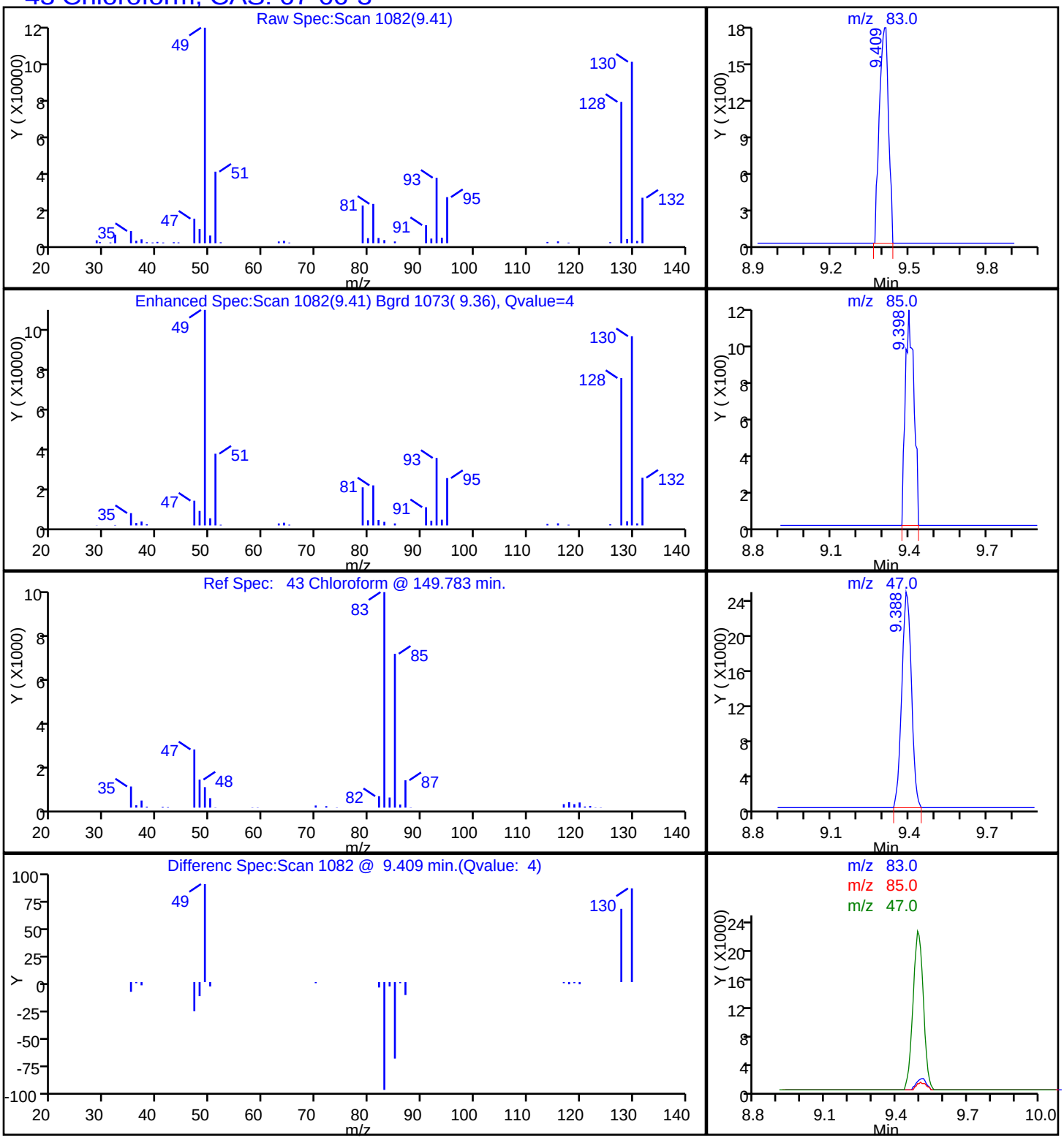
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30 Instrument ID: MJ

Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

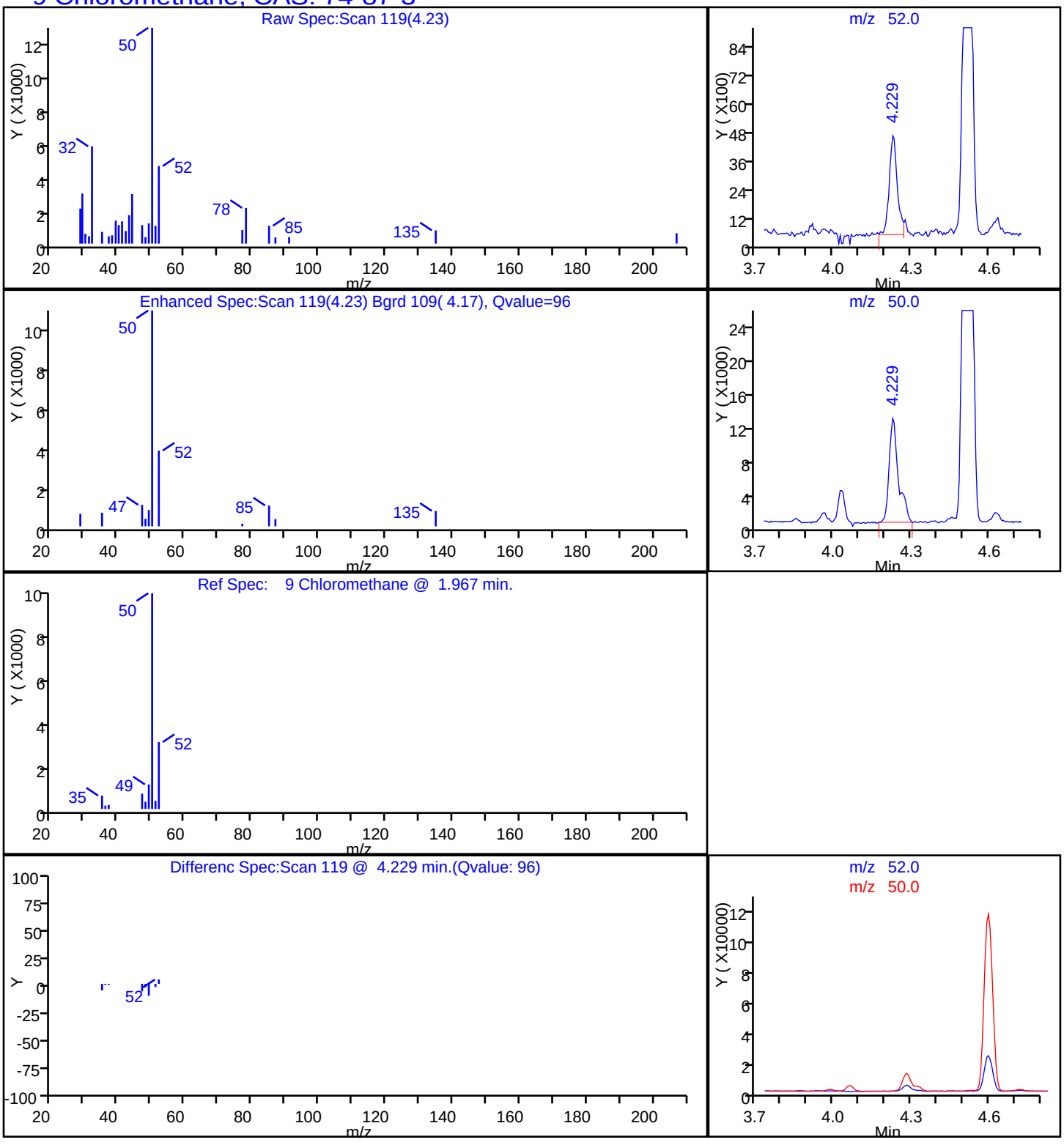
Operator ID: 403648 ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



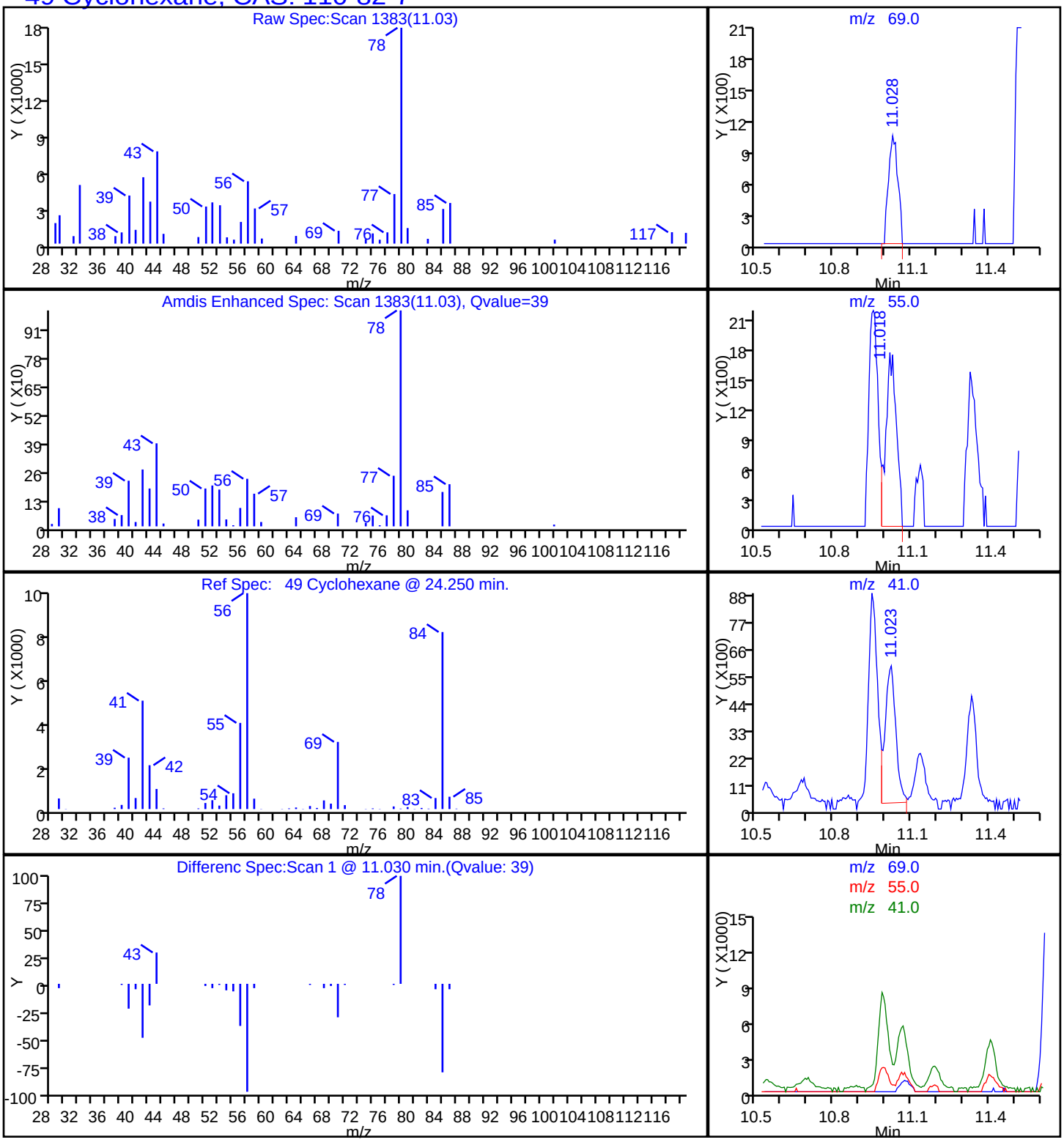
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	3 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7



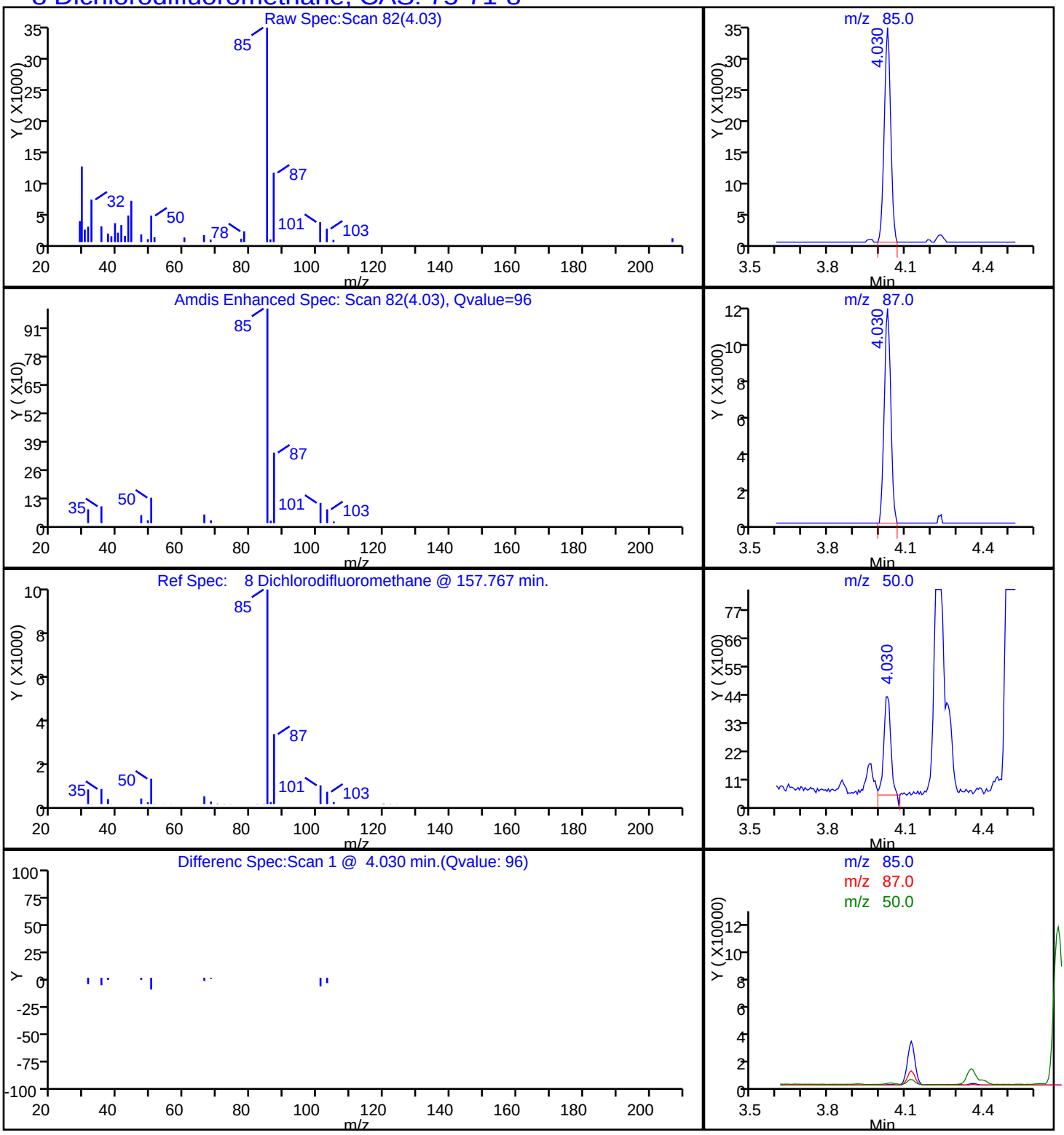
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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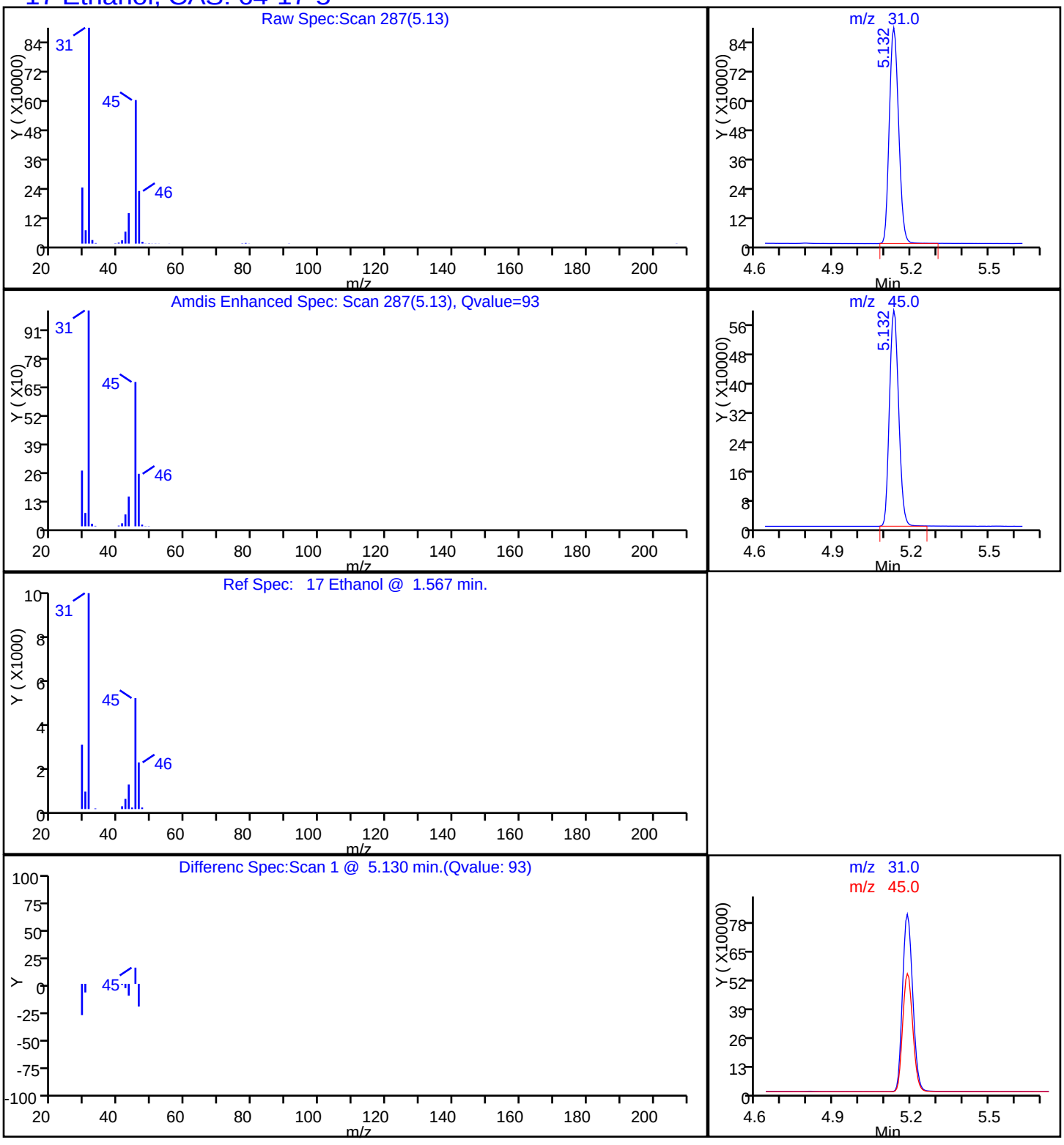
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



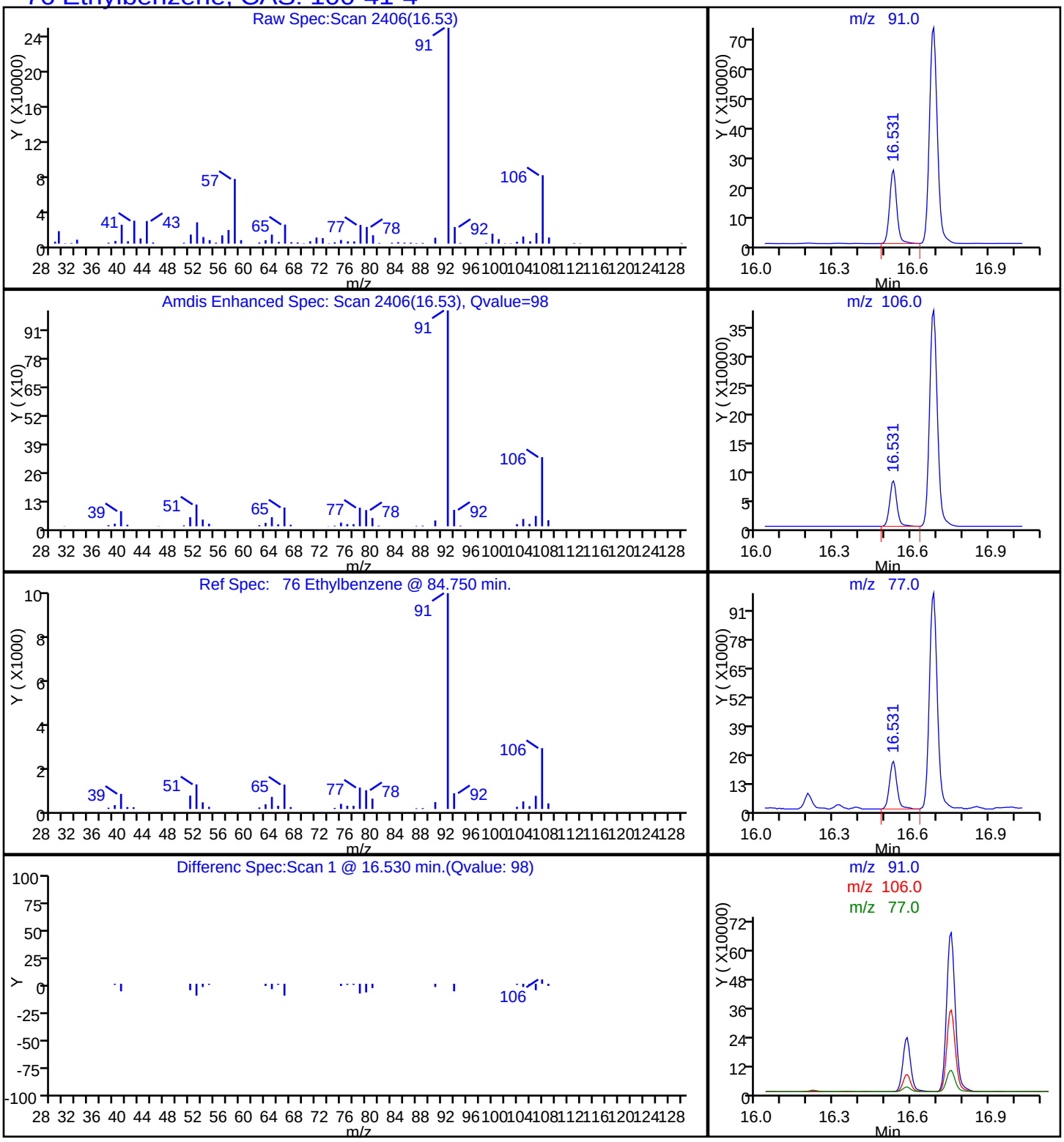
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	3 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



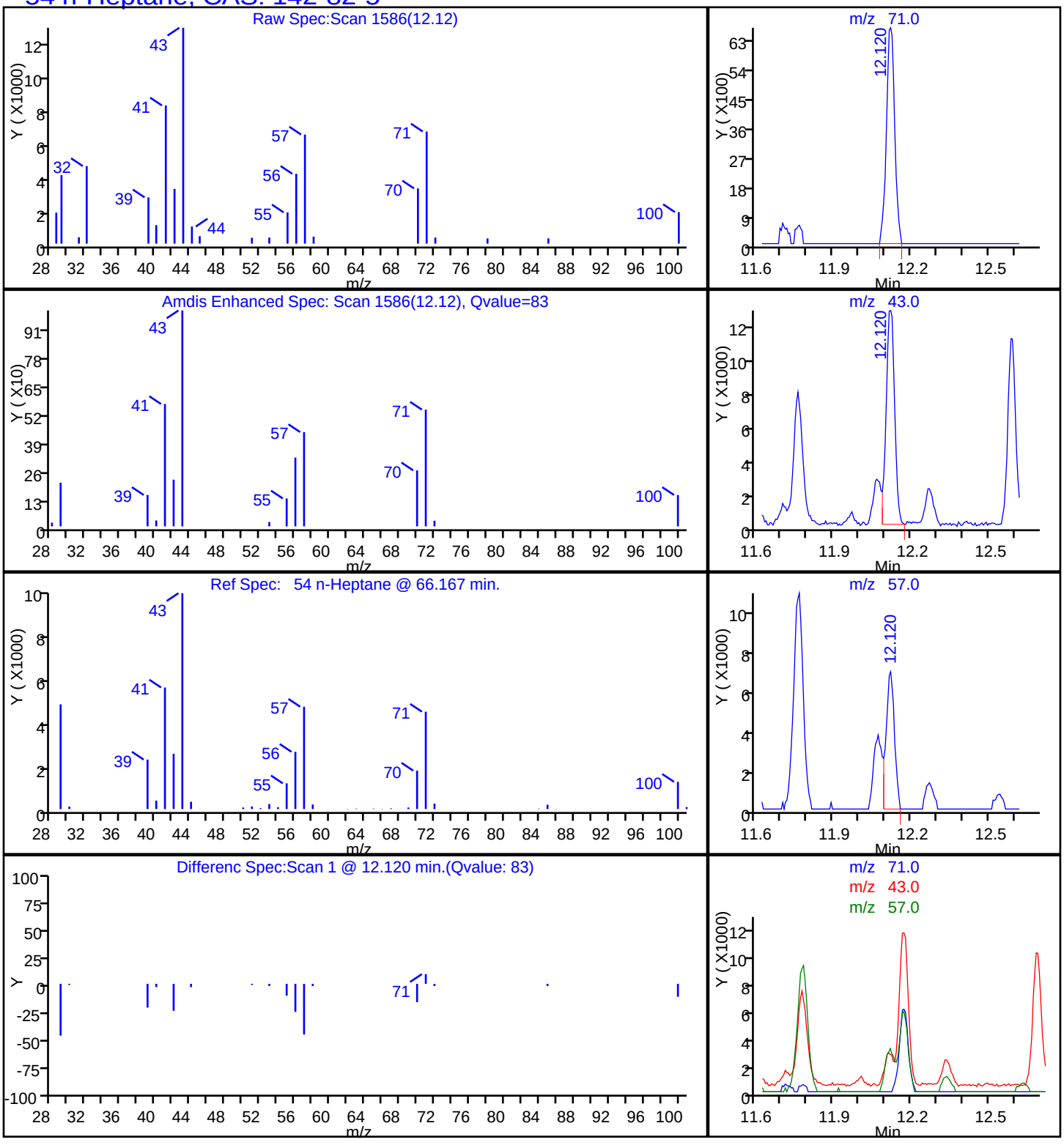
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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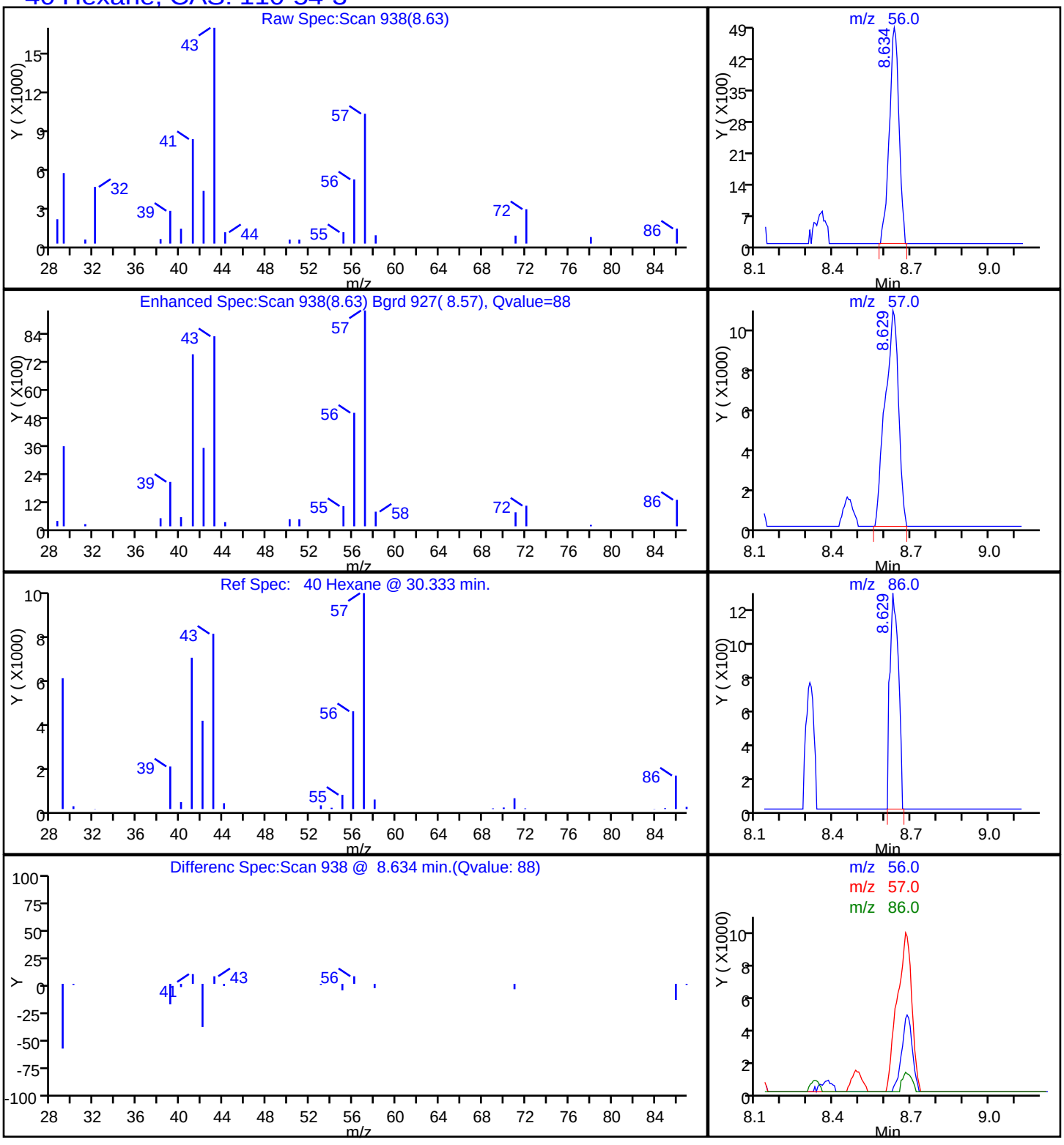
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

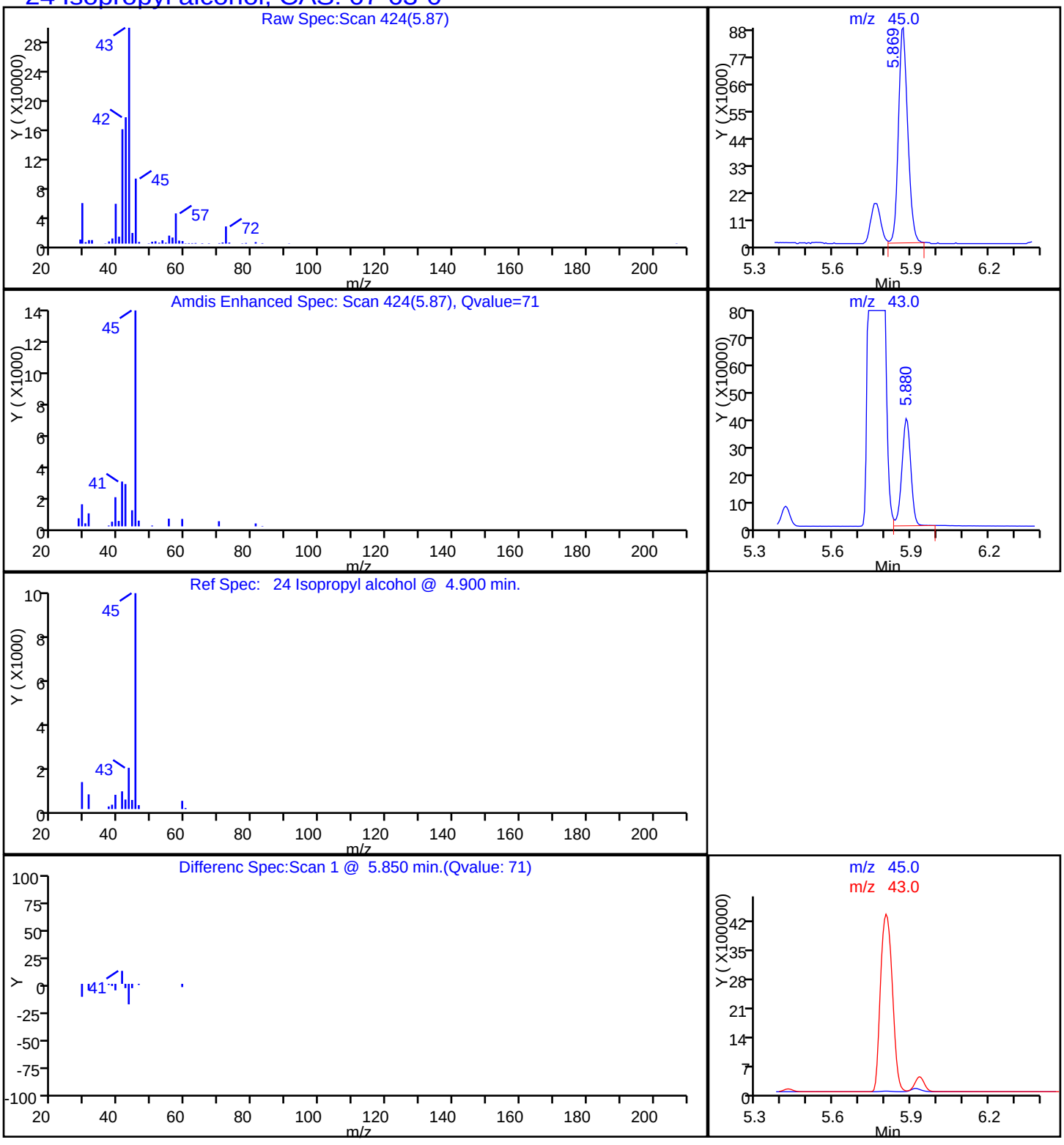


Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

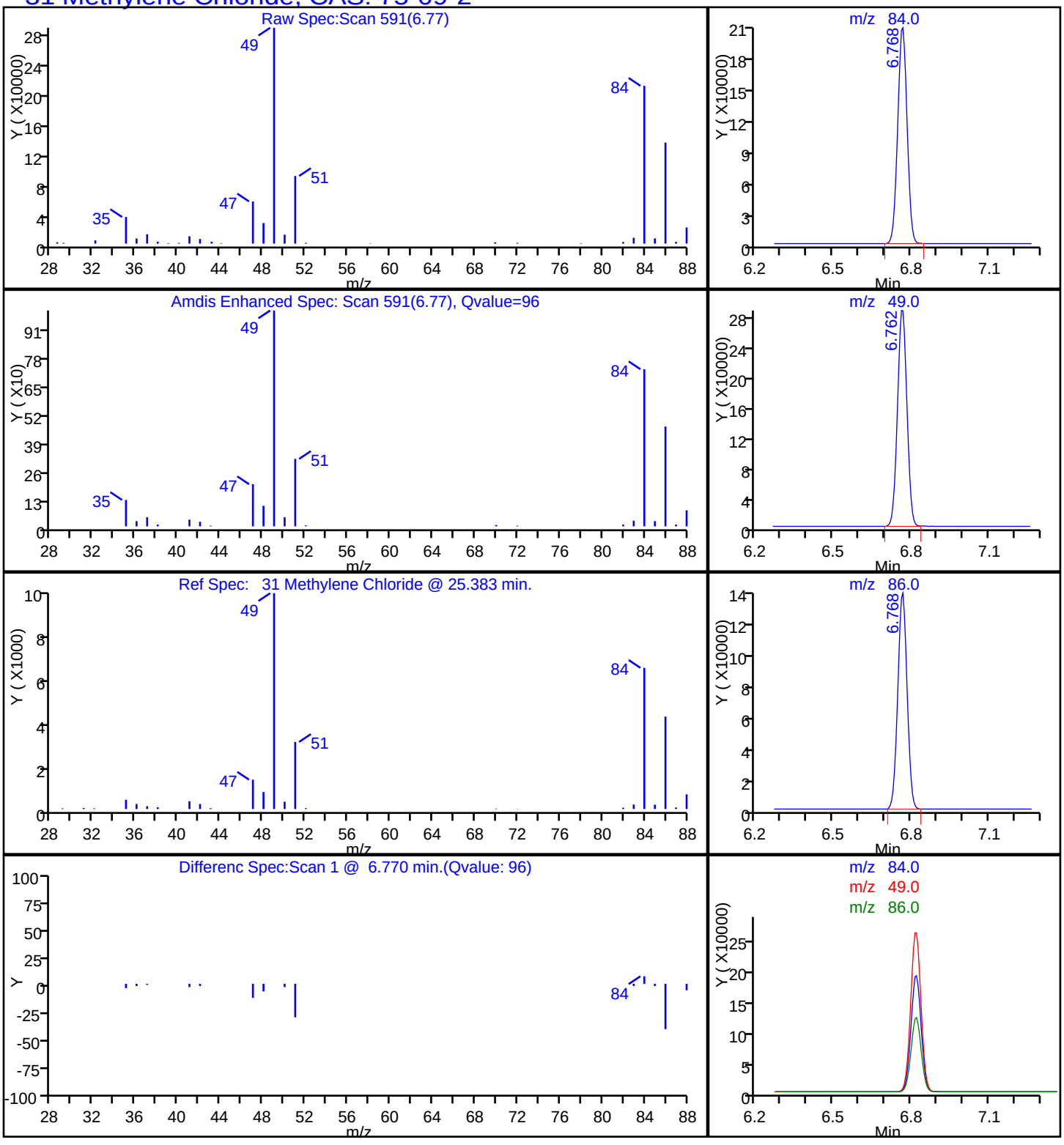


Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

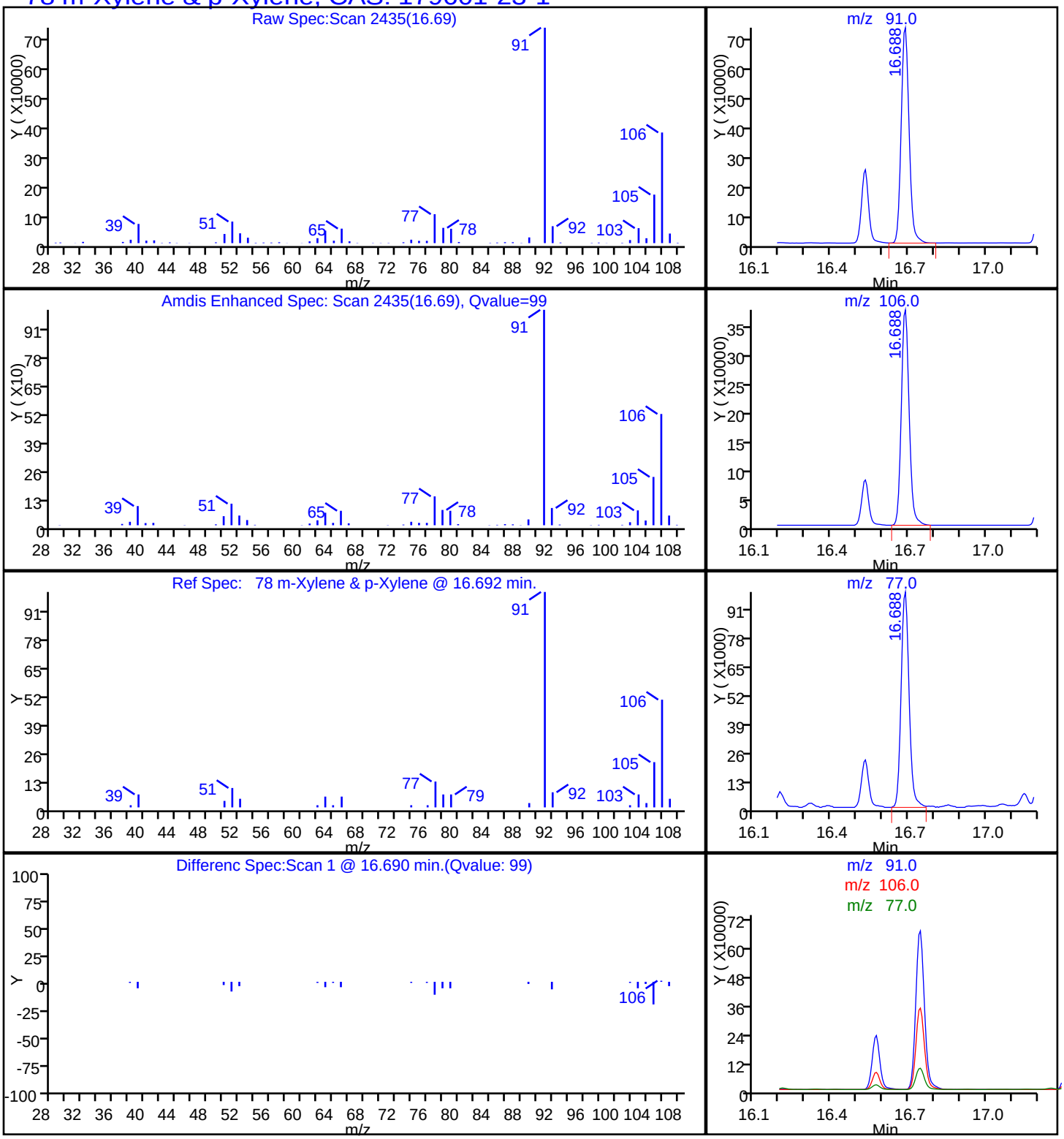


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1

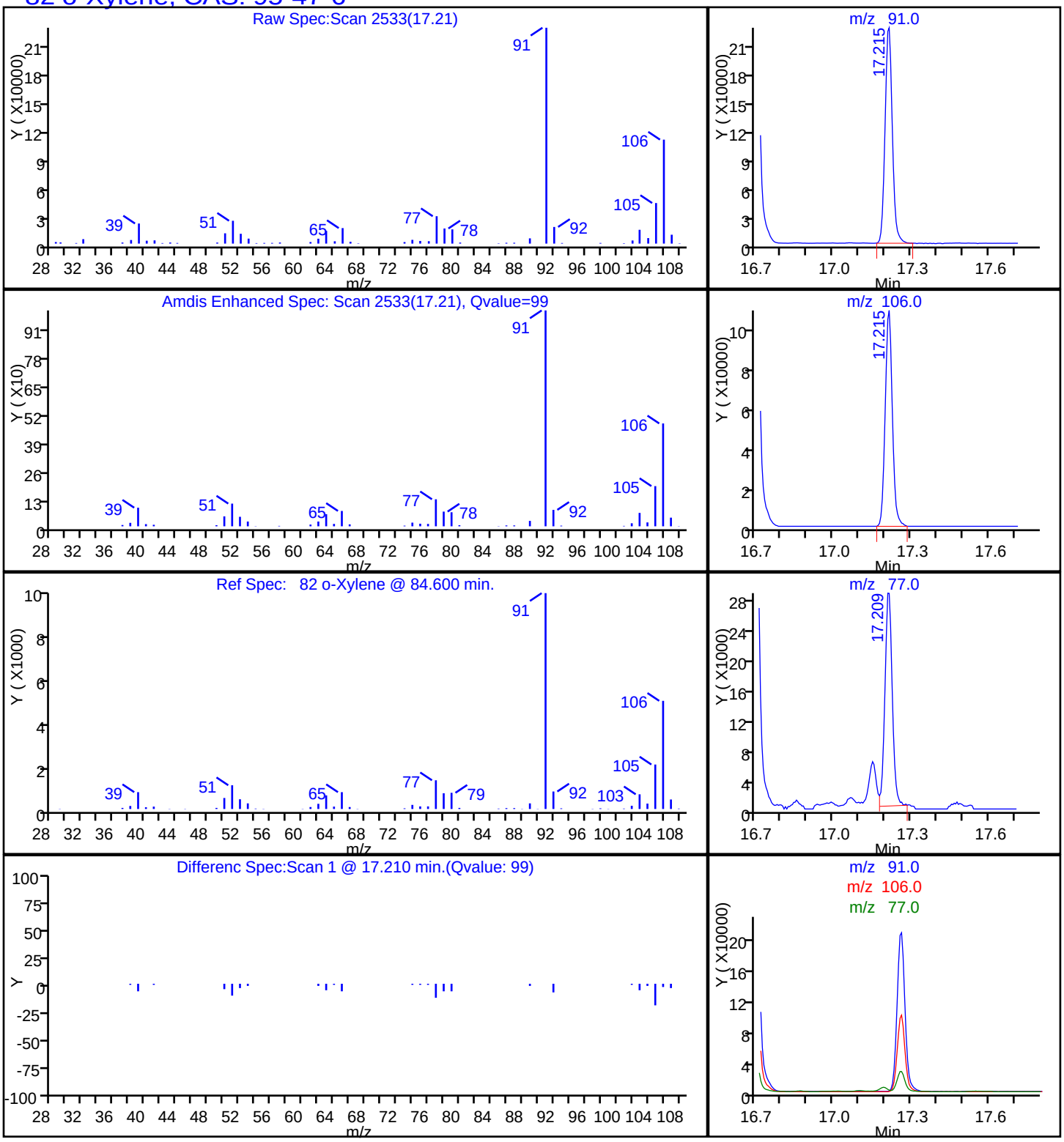


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



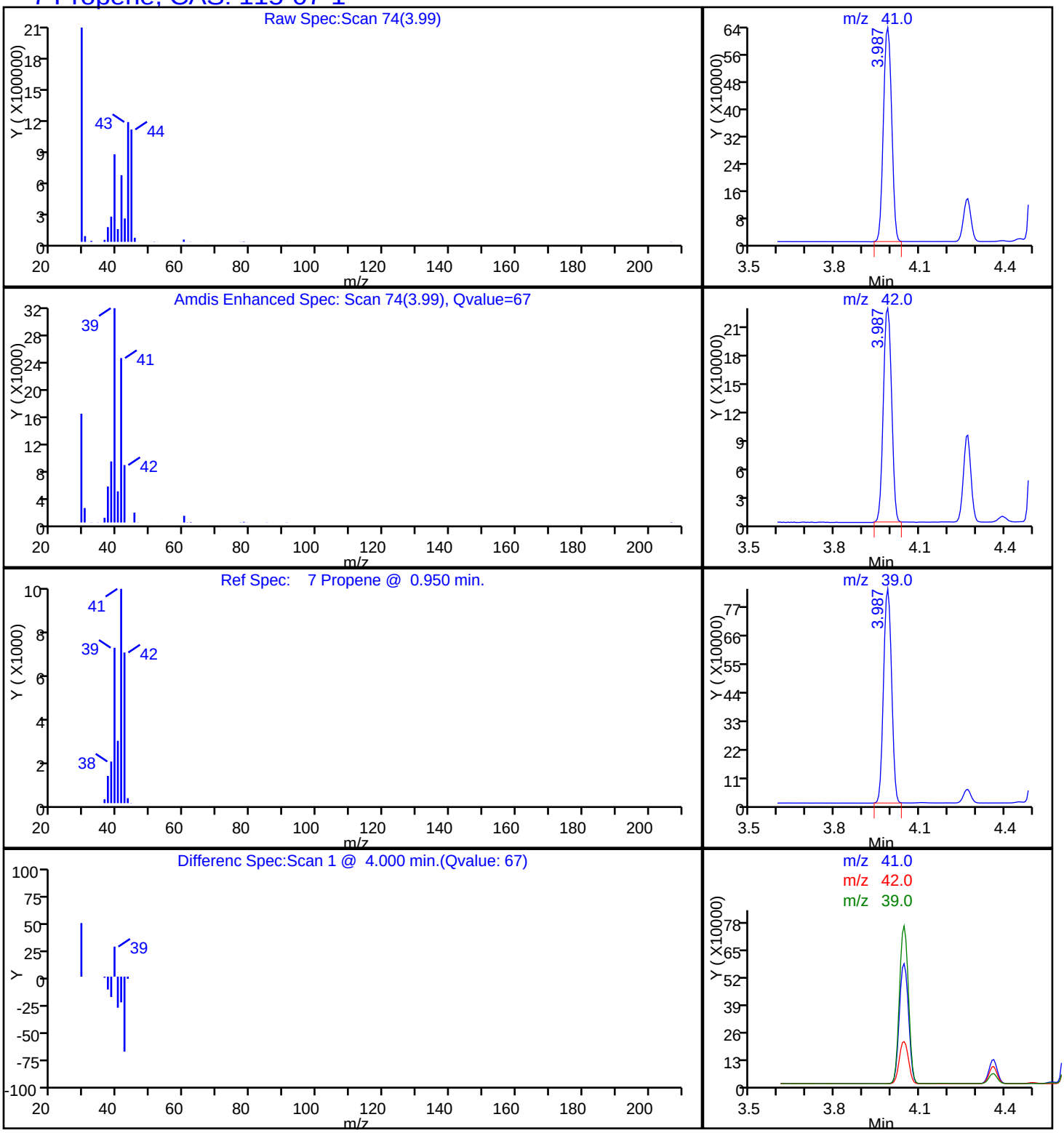
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1

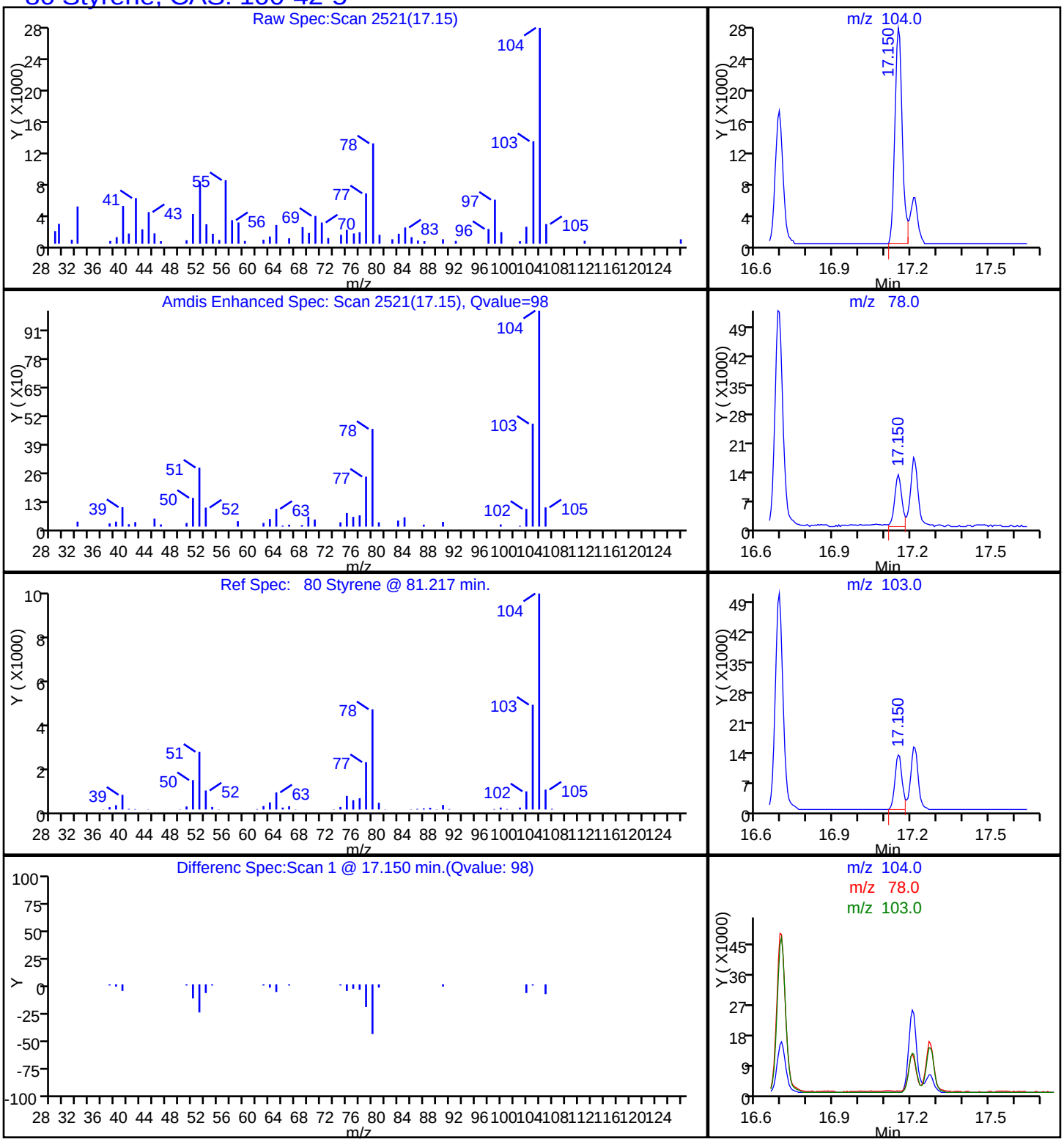


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D		
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	3 Worklist Smp#: 24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



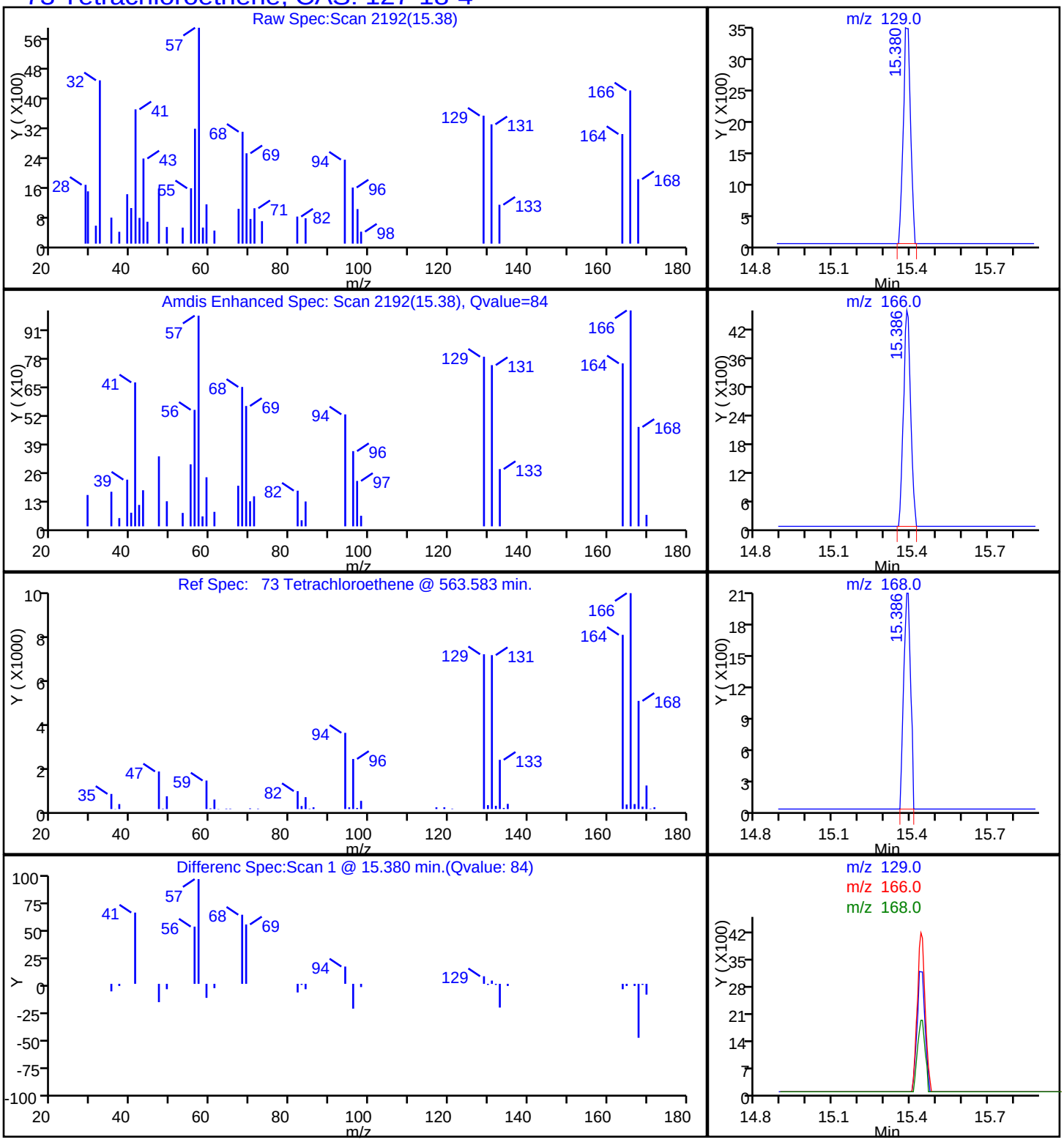
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



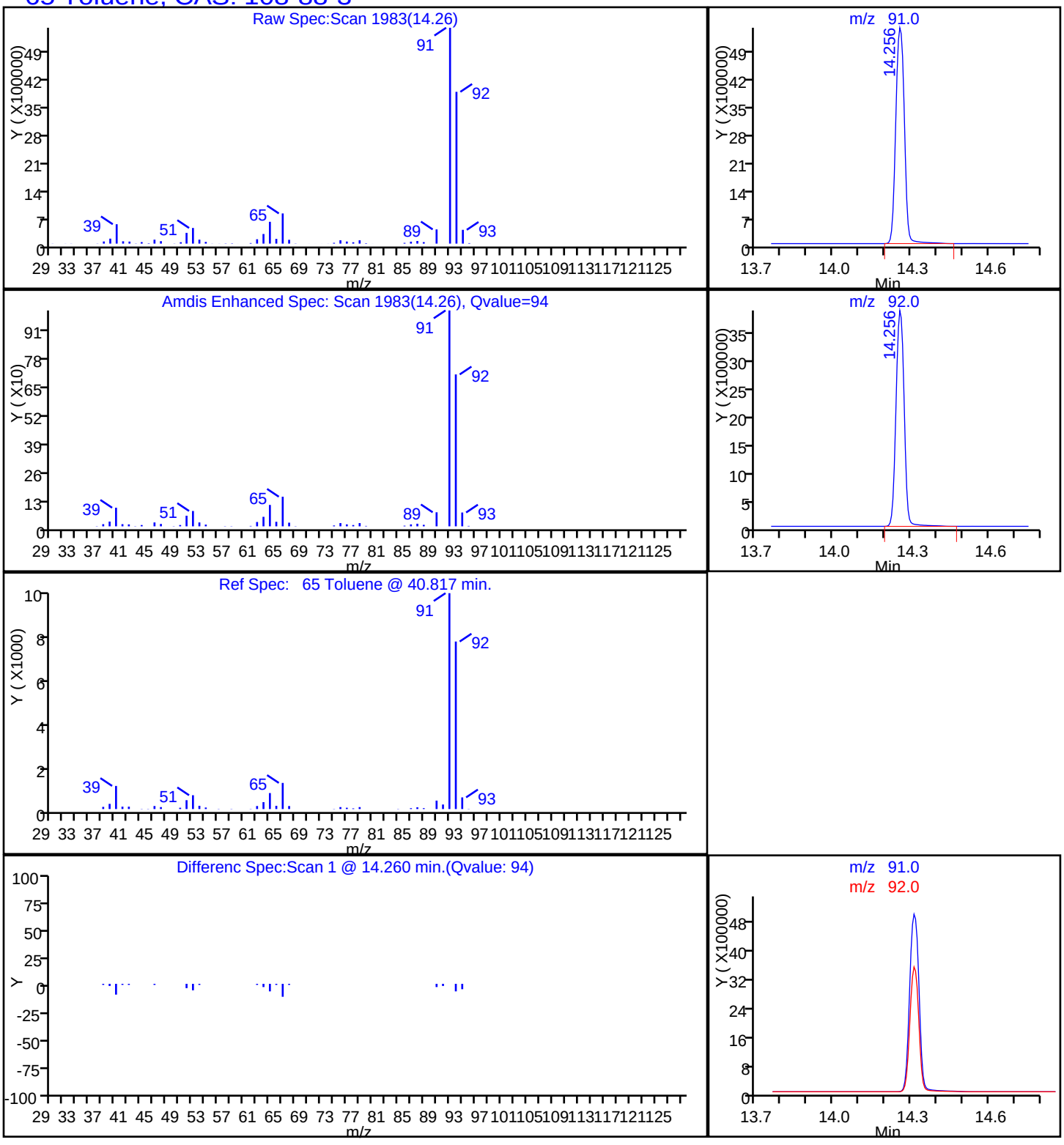
Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3

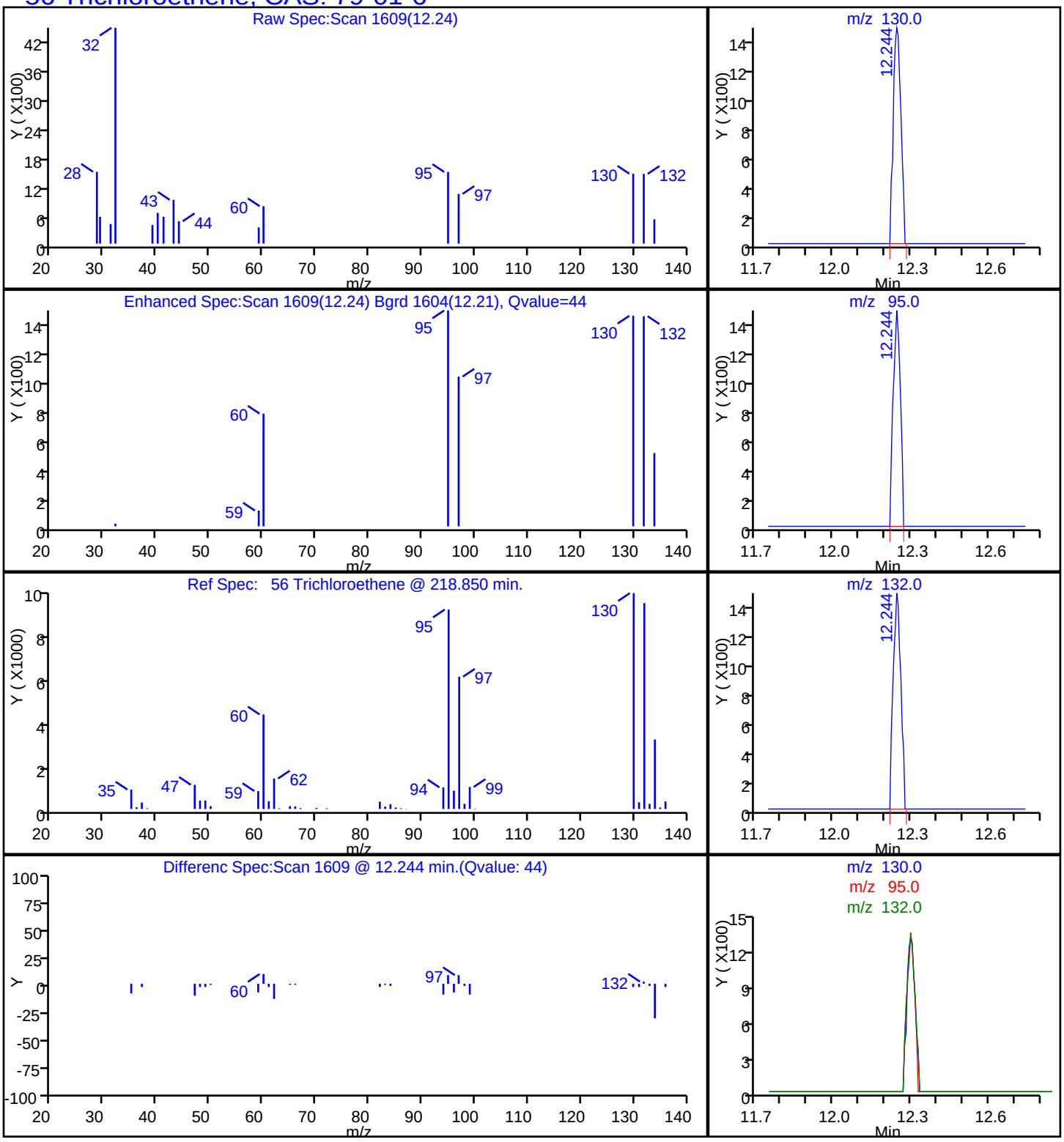


Report Date: 19-Mar-2014 13:03:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

56 Trichloroethene, CAS: 79-01-6



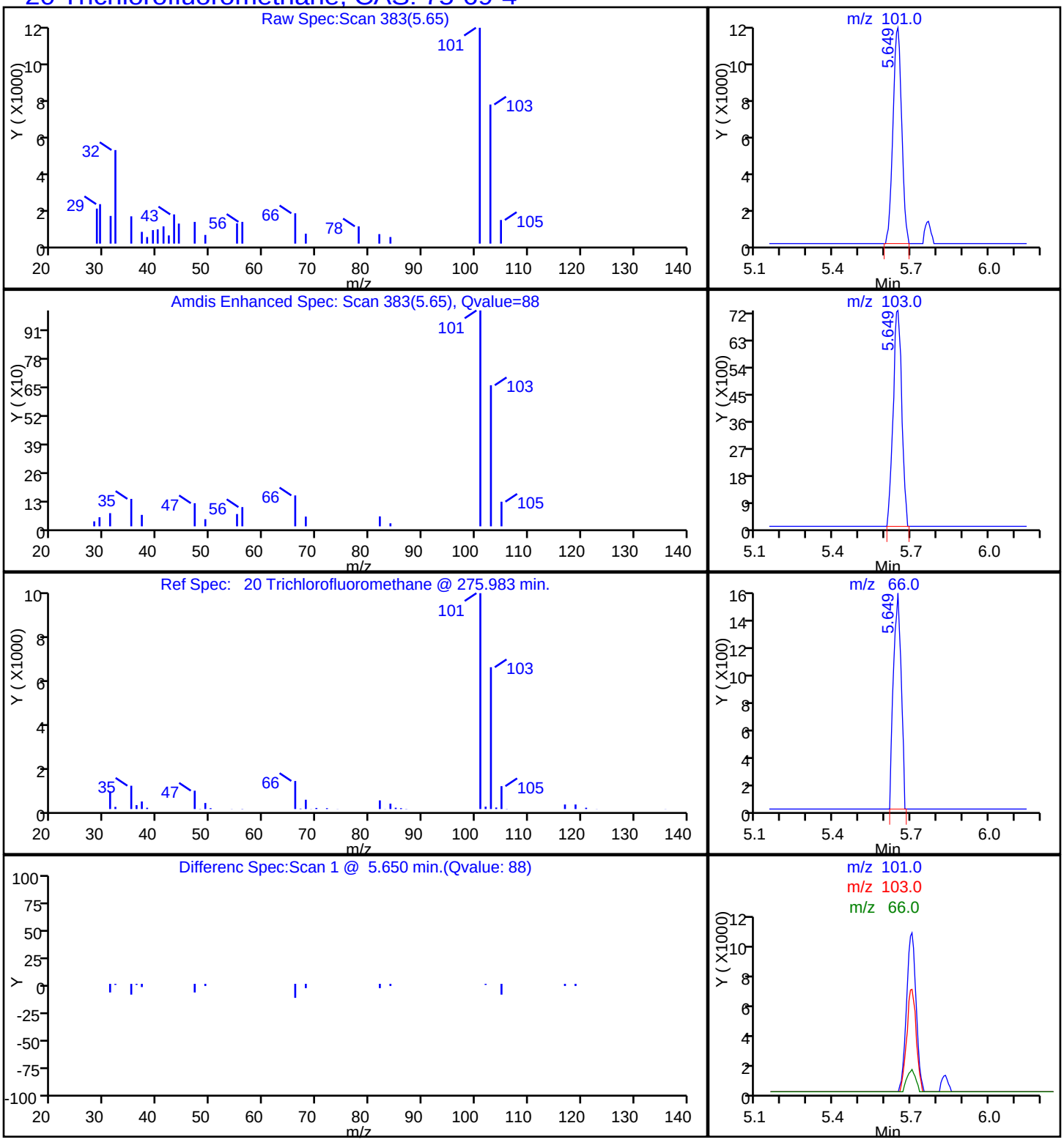
Report Date: 19-Mar-2014 13:03:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

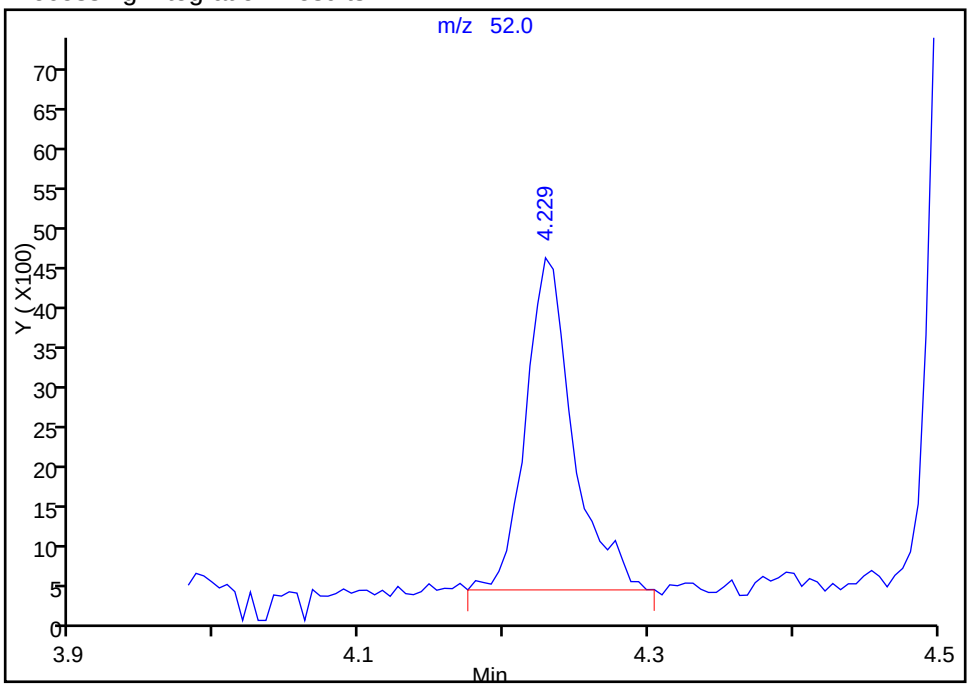
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D				
Injection Date:	18-Mar-2014 21:00:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	24
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

Processing Integration Results

RT: 4.23
Response: 9544
Amount: 0.247614



Manual Integration Results

RT: 4.23
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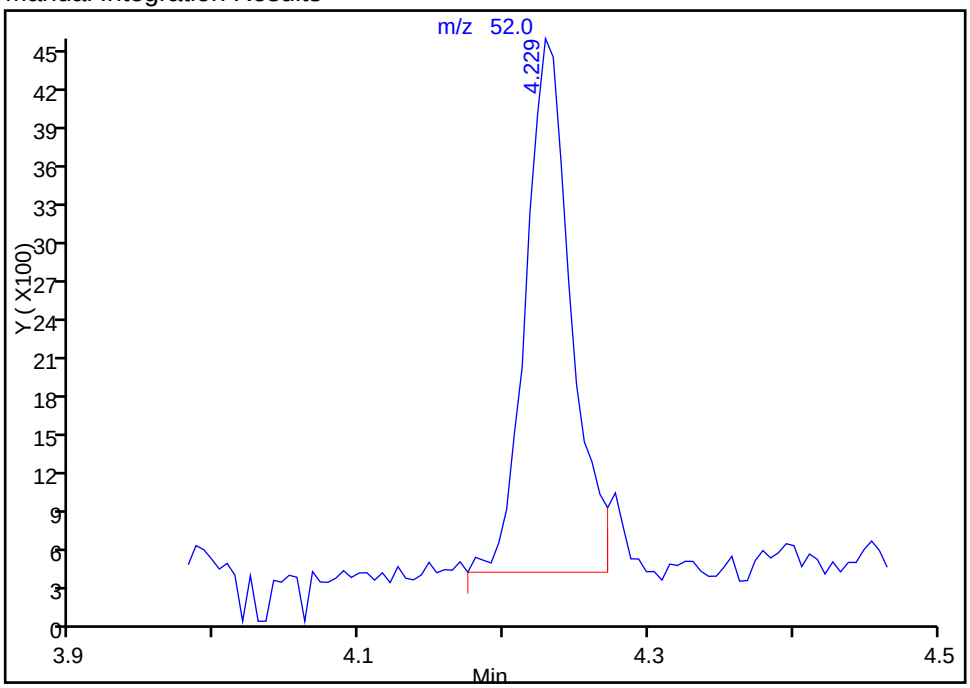


Reviewer: barlozhetskayaa, 19-Mar-2014 11:04:31
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 DL Lab Sample ID: 140-1063-16 DL

Matrix: Air Lab File ID: JC19P101R.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 11(mL) Date Analyzed: 03/20/2014 07:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	260		91	25
64-17-5	Ethanol	46.07	200		36	36
108-88-3	Toluene	92.14	110		3.6	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA1-B5 DL Lab Sample ID: 140-1063-16 DL

Matrix: Air Lab File ID: JC19P101R.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 11(mL) Date Analyzed: 03/20/2014 07:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	630		220	60
64-17-5	Ethanol	46.07	380		69	69
108-88-3	Toluene	92.14	420		14	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D
Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16
Client ID: PCV-IA1-B5
Sample Type: Client
Inject. Date: 20-Mar-2014 07:15:30 ALS Bottle#: 1 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-A-16
Misc. Info.: J031914,TO15,,140-0000532-006
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:58:28 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 13:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.385	-0.003	90	359963	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1774737	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1432488	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	890621	3.52	
7 Propene	41	3.986	3.973	0.013	38	178877	1.62	
14 Butadiene	54	4.514	4.516	-0.002	26	3300	0.0356	
17 Ethanol	31	5.116	5.119	-0.003	94	128458	4.45	
19 2-Methylbutane	43	5.412	5.409	0.003	88	12213	0.0799	
23 Acetone	58	5.762	5.770	-0.008	98	297624	5.82	
24 Isopropyl alcohol	45	5.864	5.850	0.014	26	11659	0.0863	
31 Methylene Chloride	84	6.757	6.754	0.003	95	33383	0.3467	
44 Tetrahydrofuran	42	9.672	9.799	-0.127	17	7523	0.0902	
64 trans-1,3-Dichloropropene	75	14.250	14.119	0.131	4	3905	0.0329	
65 Toluene	91	14.250	14.253	-0.003	94	651964	2.45	
76 Ethylbenzene	91	16.526	16.529	-0.003	80	19485	0.0664	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	98	61065	0.2578	
82 o-Xylene	91	17.209	17.212	-0.003	76	18302	0.0762	

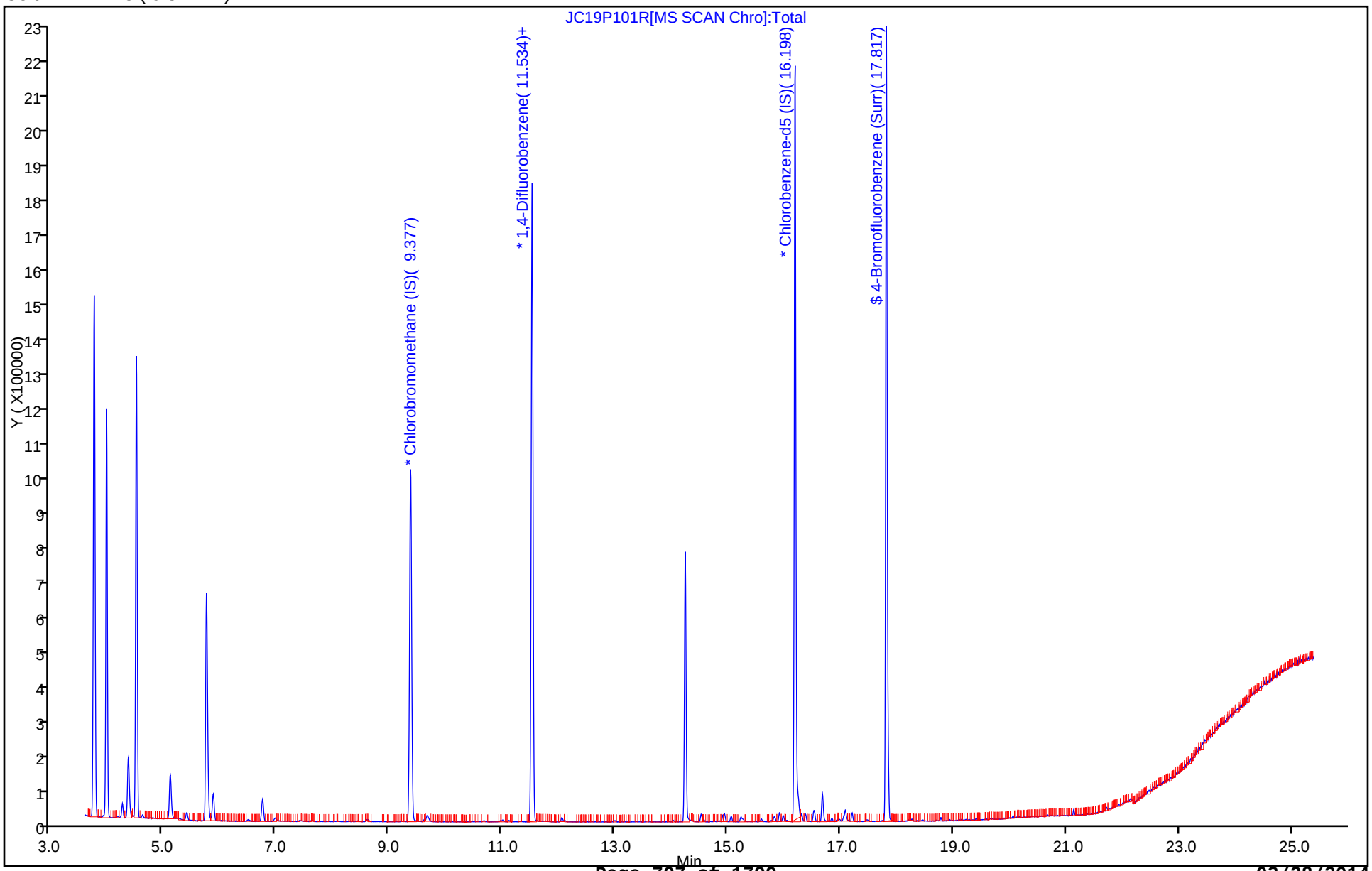
Report Date: 20-Mar-2014 13:00:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

Injection Date:	20-Mar-2014 07:15:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16	Worklist Smp#:	23
Client ID:	PCV-IA1-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

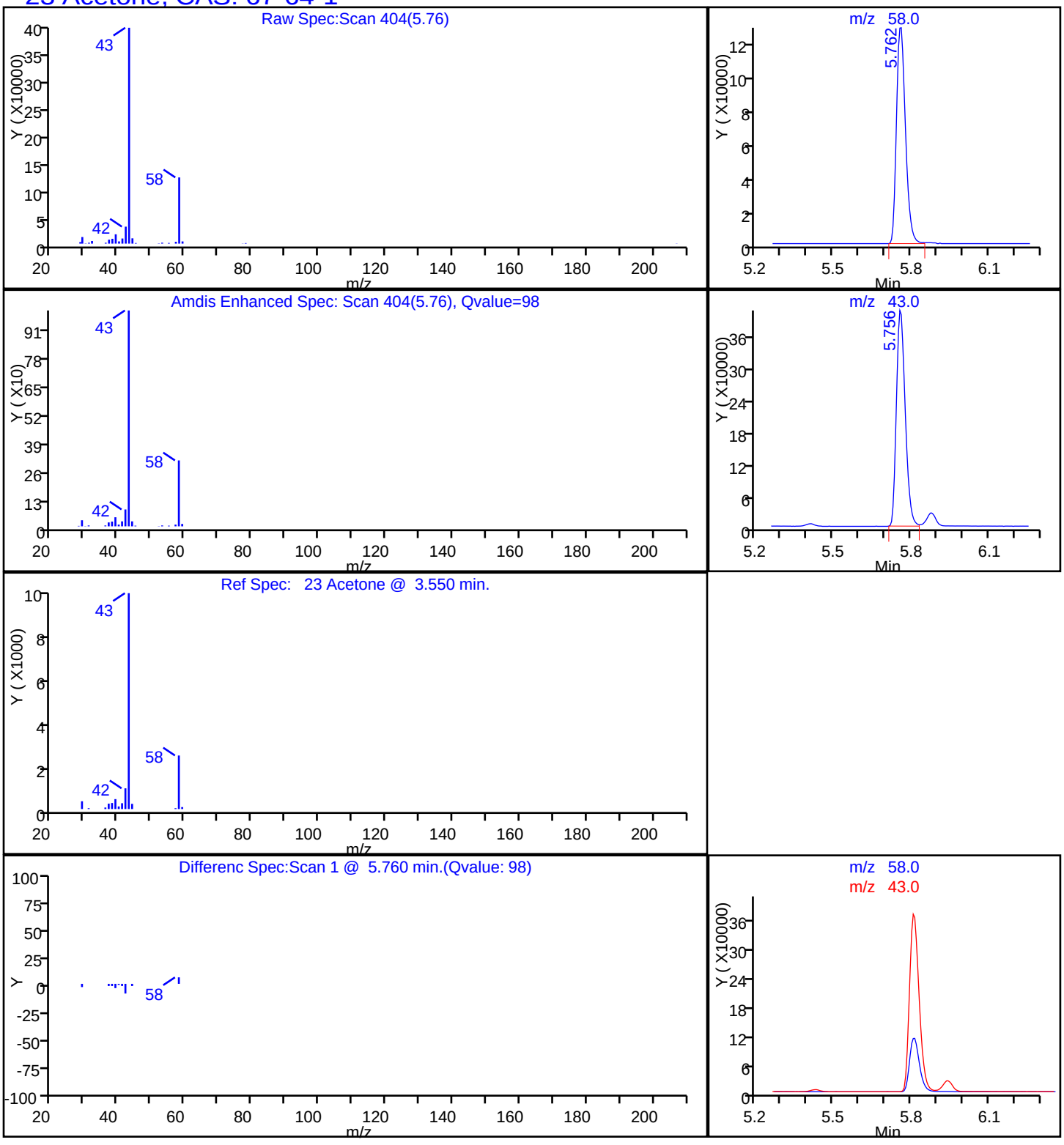


Report Date: 20-Mar-2014 13:00:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D				
Injection Date:	20-Mar-2014 07:15:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

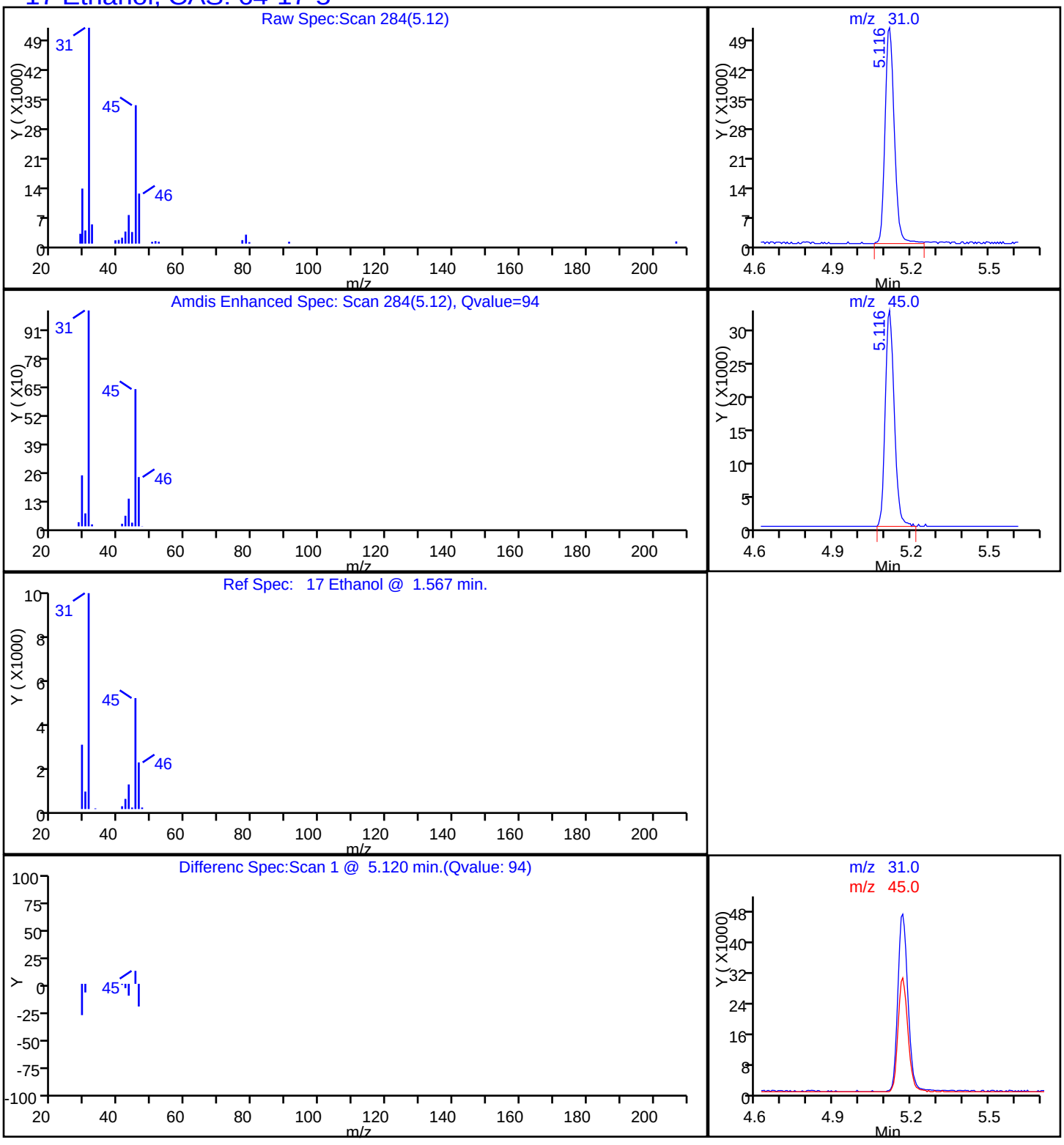


Report Date: 20-Mar-2014 13:00:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D		
Injection Date:	20-Mar-2014 07:15:30	Instrument ID:	MJ
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16
Client ID:	PCV-IA1-B5		
Operator ID:	403648	ALS Bottle#:	1 Worklist Smp#: 23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



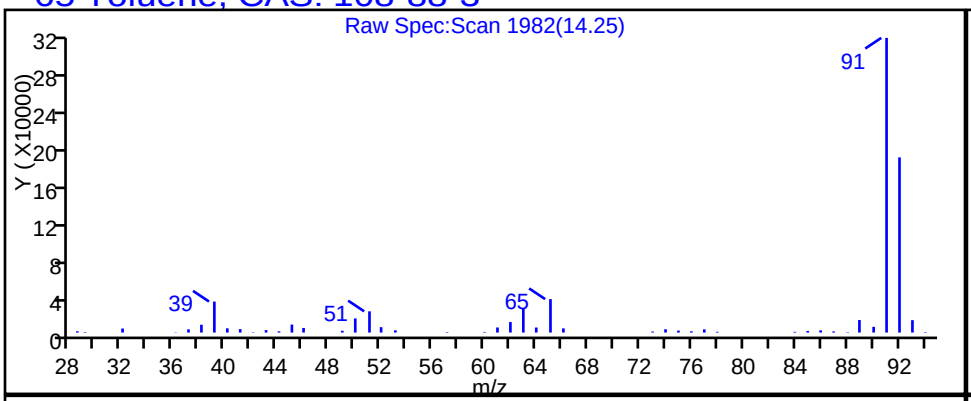
Report Date: 20-Mar-2014 13:00:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

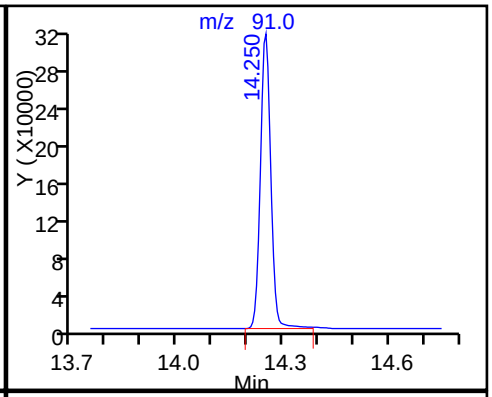
TestAmerica Knoxville

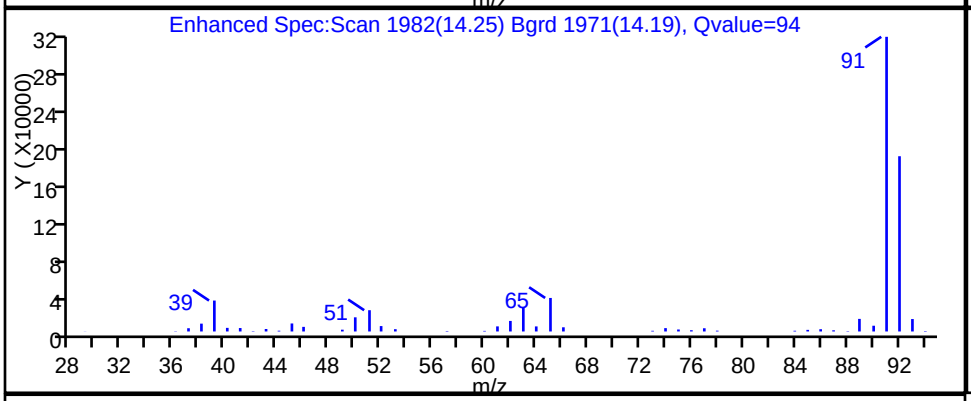
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

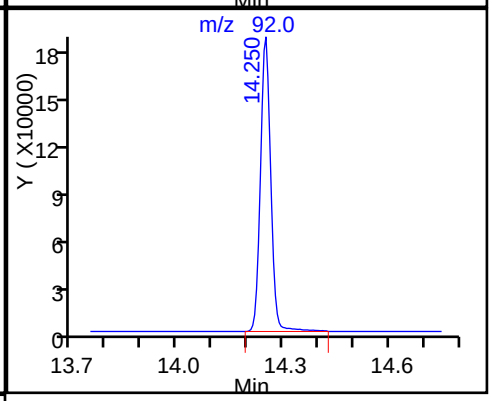
Injection Date:	20-Mar-2014 07:15:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-16	Lab Sample ID:	140-1063-16		
Client ID:	PCV-IA1-B5				
Operator ID:	403648	ALS Bottle#:	1	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

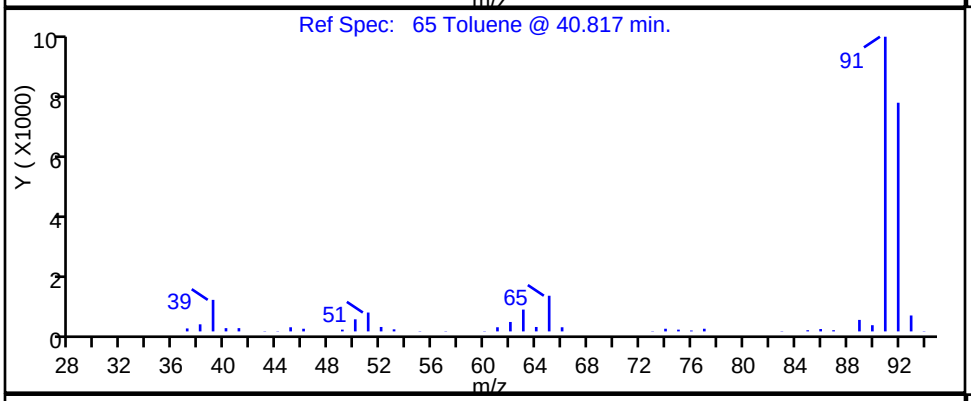
65 Toluene, CAS: 108-88-3

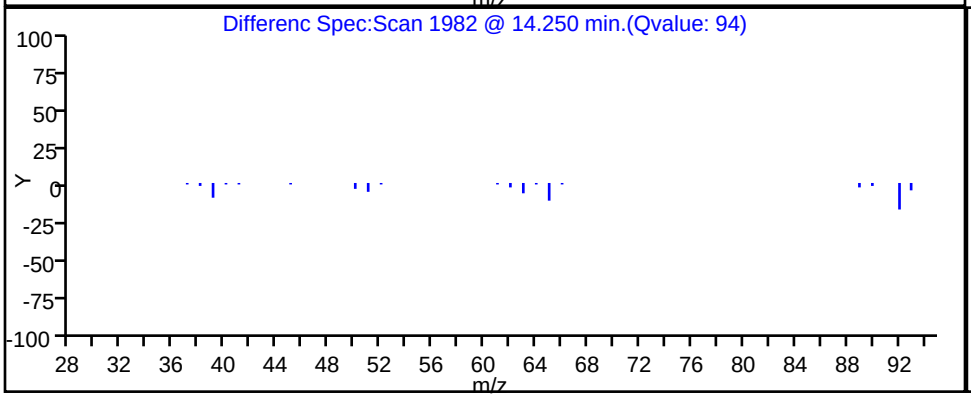


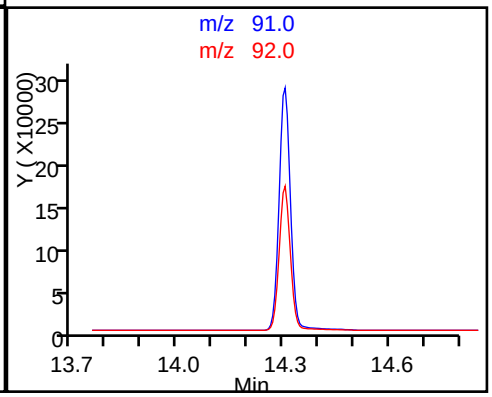












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.35		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.089	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.16	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	3.3		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	3.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.32		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.19	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.62		0.50	0.045
67-64-1	*Acetone*	*58.08*	*230*	*E*	*5.0*	*1.4*
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.24	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.089	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.18	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	200		2.0	2.0
100-41-4	Ethylbenzene	106.17	3.2		0.20	0.068
142-82-5	Heptane	100.21	0.44	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.38	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	17		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	12		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	3.3		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	0.91		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.12	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	0.19	J	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	*Toluene*	*92.14*	*100*	*E*	*0.20*	*0.12*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.061	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.44	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.75	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	9.8		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	9.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.1		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.91	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.6		2.0	0.18
67-64-1	*Acetone*	*58.08*	*540*	*E*	*12*	*3.3*
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.74	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.43	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.63	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	370		3.8	3.8
100-41-4	Ethylbenzene	106.17	14		0.87	0.30
142-82-5	Heptane	100.21	1.8	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	11		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	59		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	53		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	14		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	3.9		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.80	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	0.55	J	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	*Toluene*	*92.14*	*380*	*E*	*0.75*	*0.45*
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.33	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17

Matrix: Air Lab File ID: JC18P216.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D
Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
Client ID: PCV-IA2-B5
Sample Type: Client
Inject. Date: 19-Mar-2014 09:39:30 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-17
Misc. Info.: J031814,TO15,,140-0000527-028
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 13:07:59 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 13:07:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	90	368949	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1720971	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1485170	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	1020779	3.89	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	61943	0.1695	
9 Chloromethane	52	4.223	4.229	-0.006	96	8562	0.2062	M
17 Ethanol	31	5.127	5.116	0.011	93	2342311	79.1	
19 2-Methylbutane	43	5.407	5.407	0.0	92	200493	1.28	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	28397	0.0885	
23 Acetone	58	5.762	5.767	-0.005	95	4756147	90.7	E
24 Isopropyl alcohol	45	5.864	5.848	0.016	72	247079	1.78	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.580	-0.006	52	5914	0.0266	
31 Methylene Chloride	84	6.762	6.757	0.005	95	669289	6.78	
33 Carbon disulfide	76	6.935	6.935	0.0	98	33046	0.0952	
35 2-Methylpentane	43	7.623	7.623	0.0	92	36449	0.1280	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	100	46608	1.33	
40 Hexane	56	8.629	8.635	-0.006	79	15004	0.1513	
43 Chloroform	83	9.398	9.393	0.005	14	7658	0.0356	
44 Tetrahydrofuran	42	9.823	9.802	0.021	47	6342	0.0742	
48 Benzene	78	11.023	11.023	0.0	95	46141	0.1563	
49 Cyclohexane	69	11.028	11.034	-0.006	48	4238	0.0727	
50 Carbon tetrachloride	117	11.050	11.050	0.0	86	6631	0.0272	
53 Isooctane	57	11.760	11.760	0.0	86	32547	0.0646	
54 n-Heptane	71	12.120	12.120	0.0	86	18392	0.1761	
56 Trichloroethene	130	12.239	12.244	-0.005	52	3510	0.0245	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	93	44960	0.2492	
65 Toluene	91	14.256	14.256	0.0	94	11206388	40.7	E
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	6080	0.0474	
76 Ethylbenzene	91	16.526	16.532	-0.006	98	386540	1.27	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	99	1207261	4.92	
80 Styrene	104	17.150	17.150	0.0	97	61644	0.3655	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.209	17.215	-0.006	99	326501	1.31	
88 4-Ethyltoluene	105	18.447	18.447	0.0	79	24603	0.0744	
89 1,3,5-Trimethylbenzene	120	18.511	18.517	-0.006	79	5913	0.0356	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	93	39861	0.1382	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

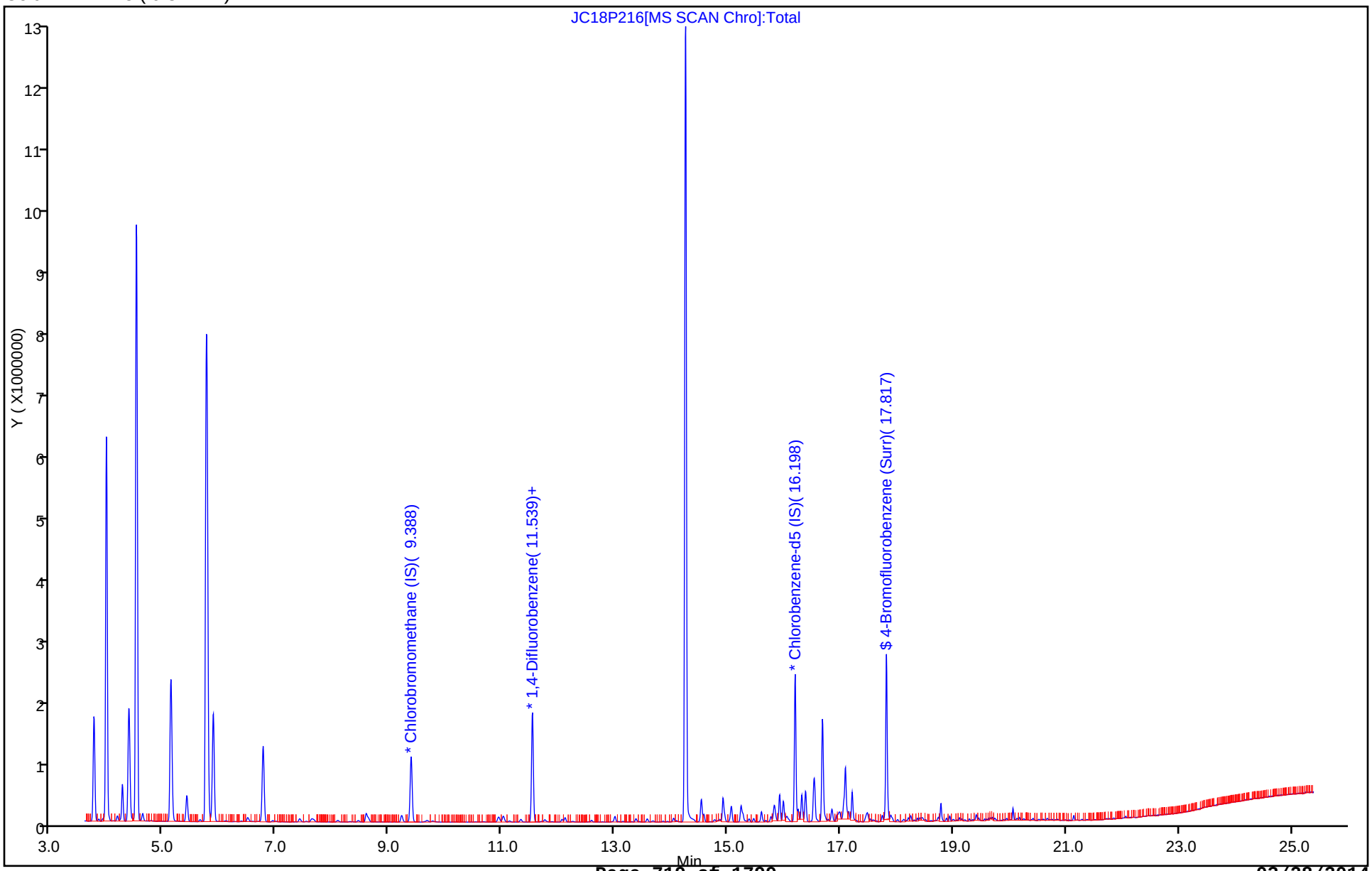
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

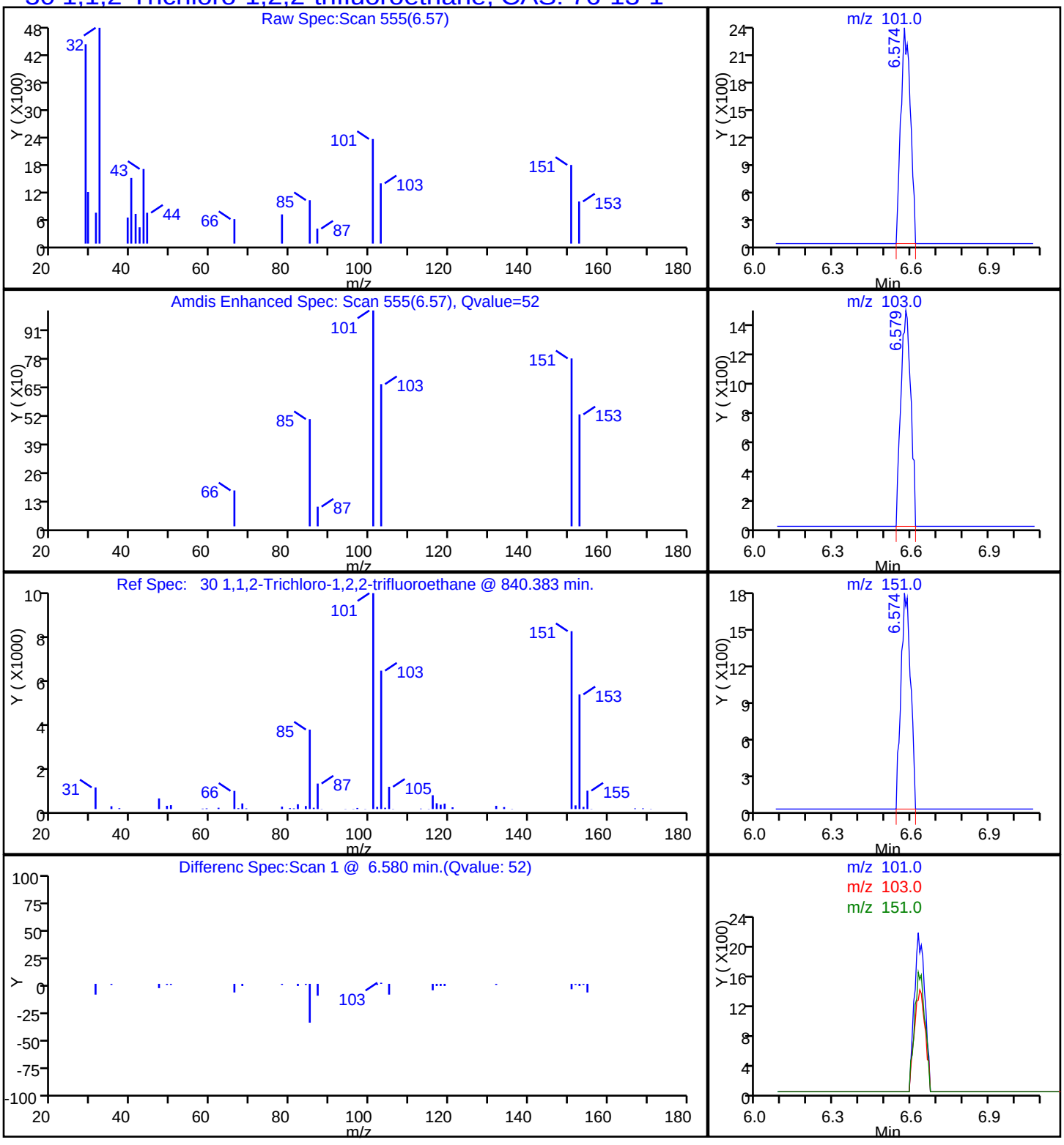
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17	Worklist Smp#:	28
Client ID:	PCV-IA2-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D
Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ
Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
Client ID: PCV-IA2-B5
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 19-Mar-2014 13:08:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

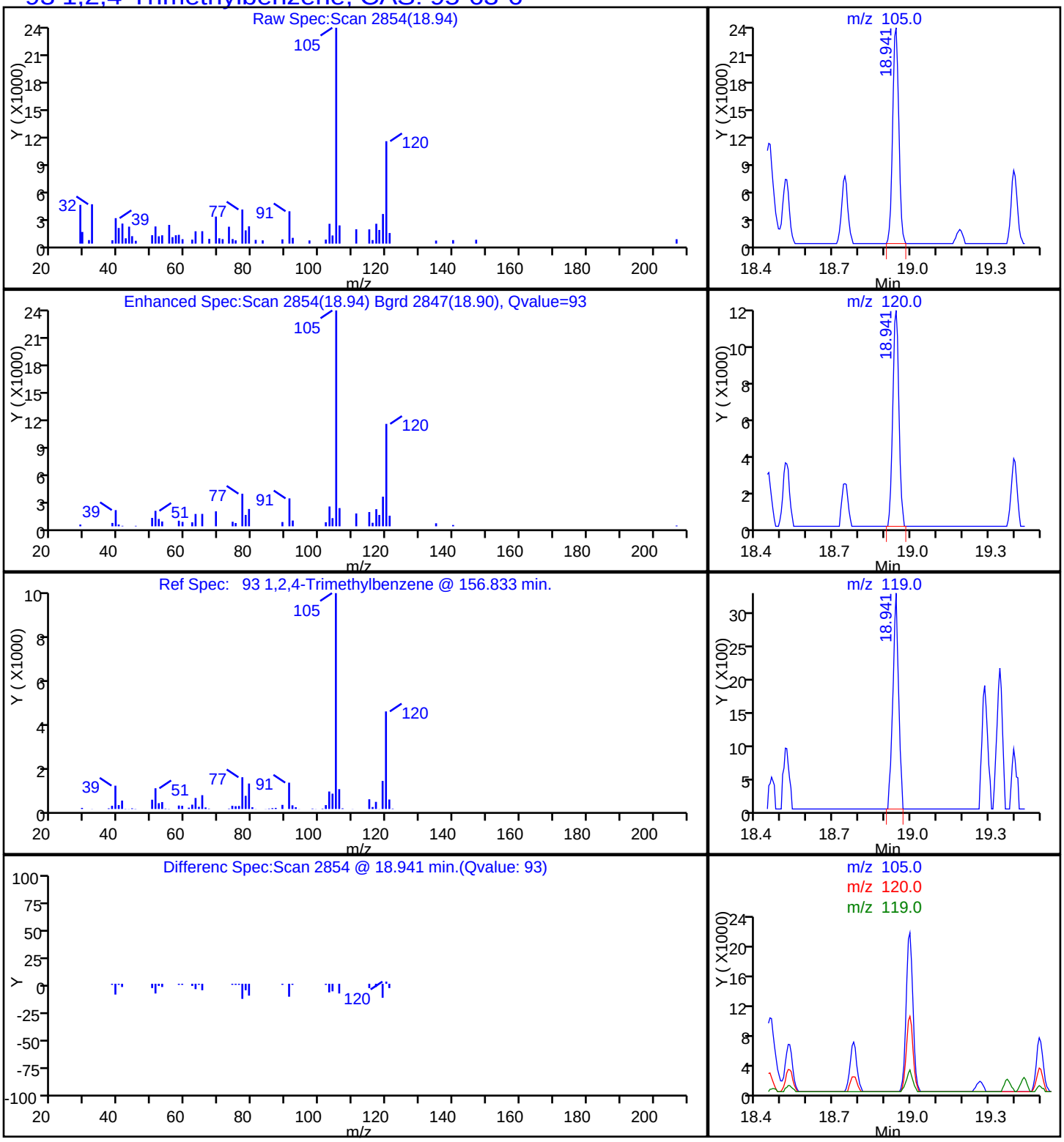
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 19-Mar-2014 13:08:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

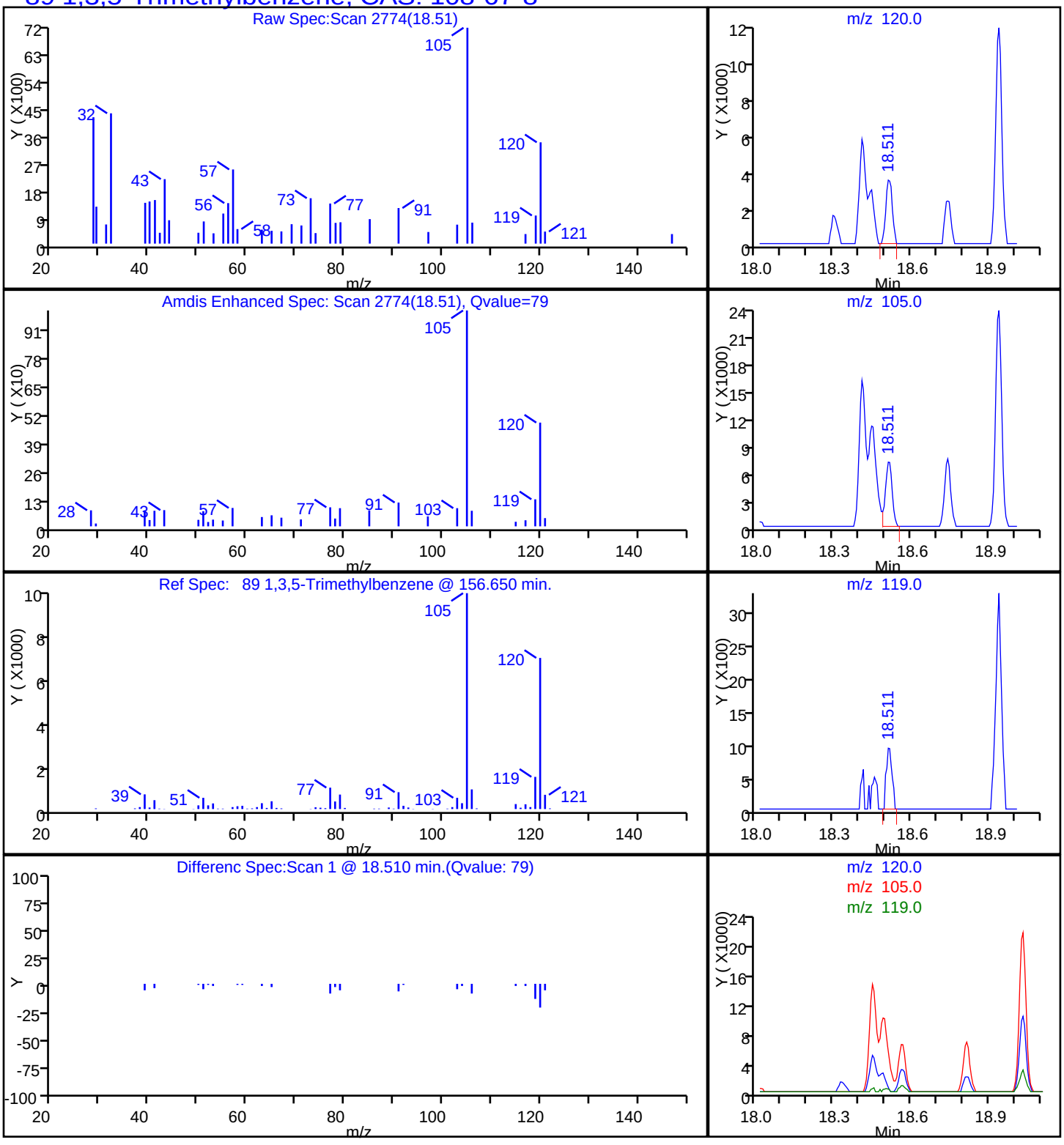
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8

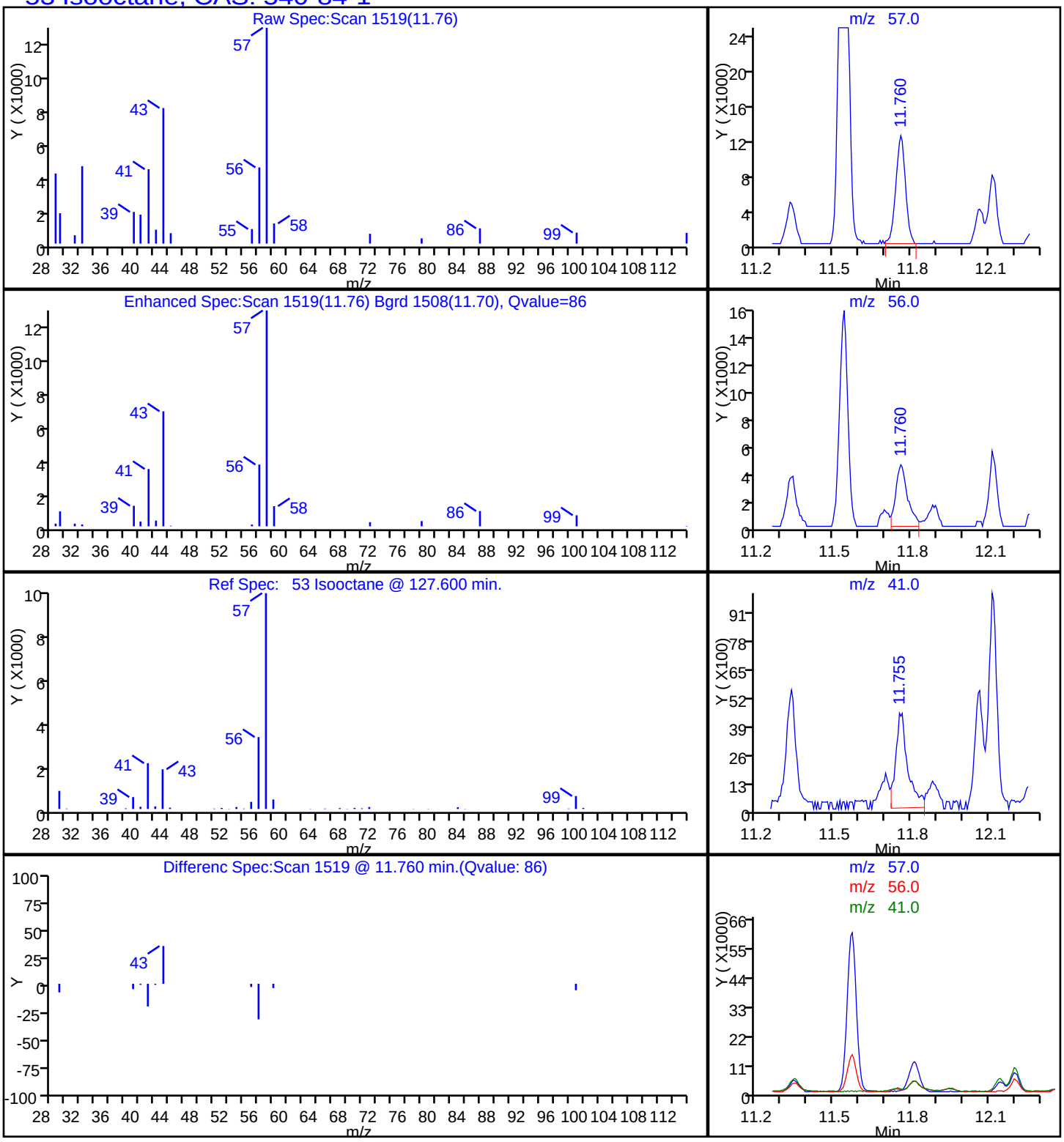


Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

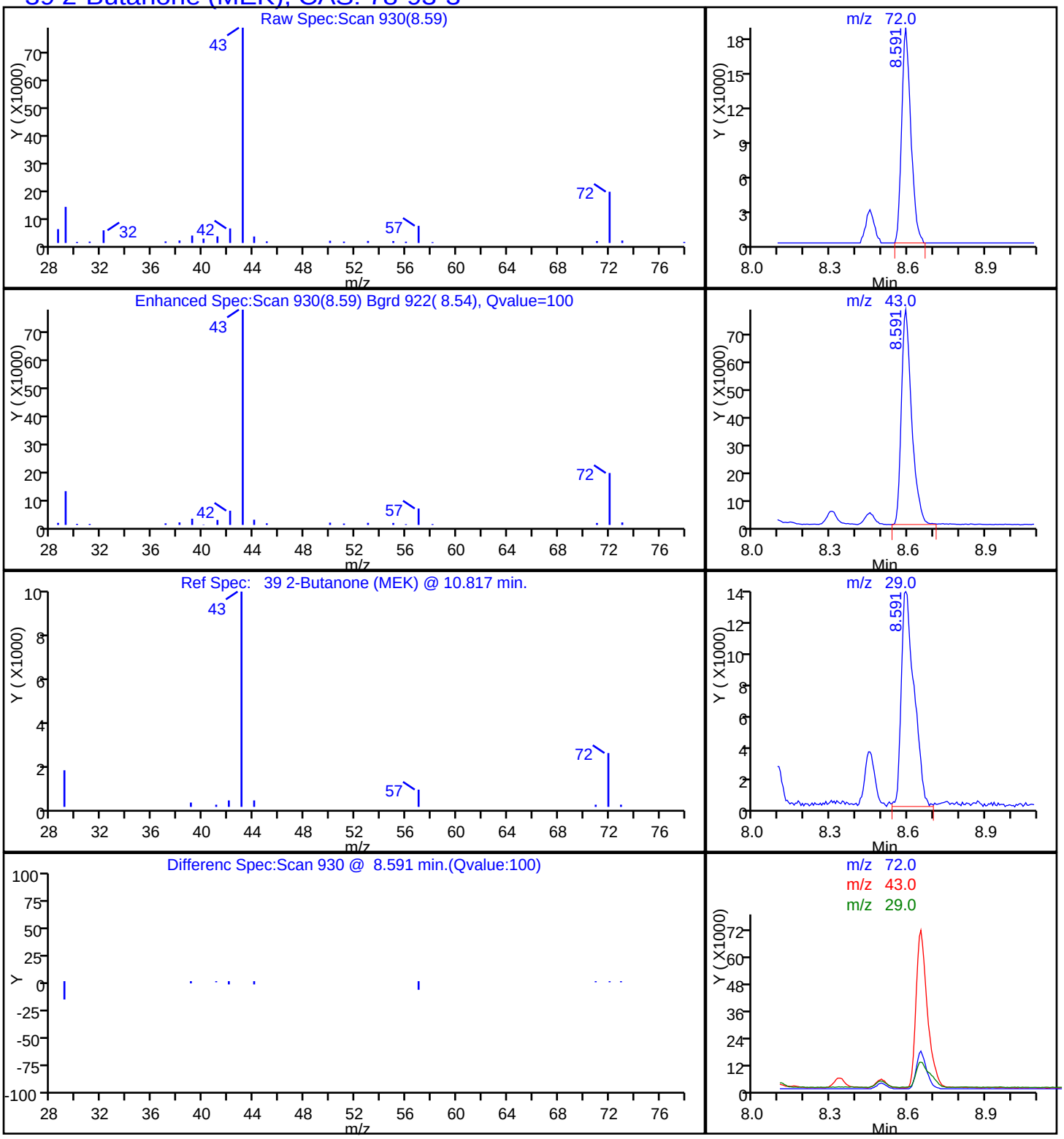
Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D				
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D
Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ
Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
Client ID: PCV-IA2-B5
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

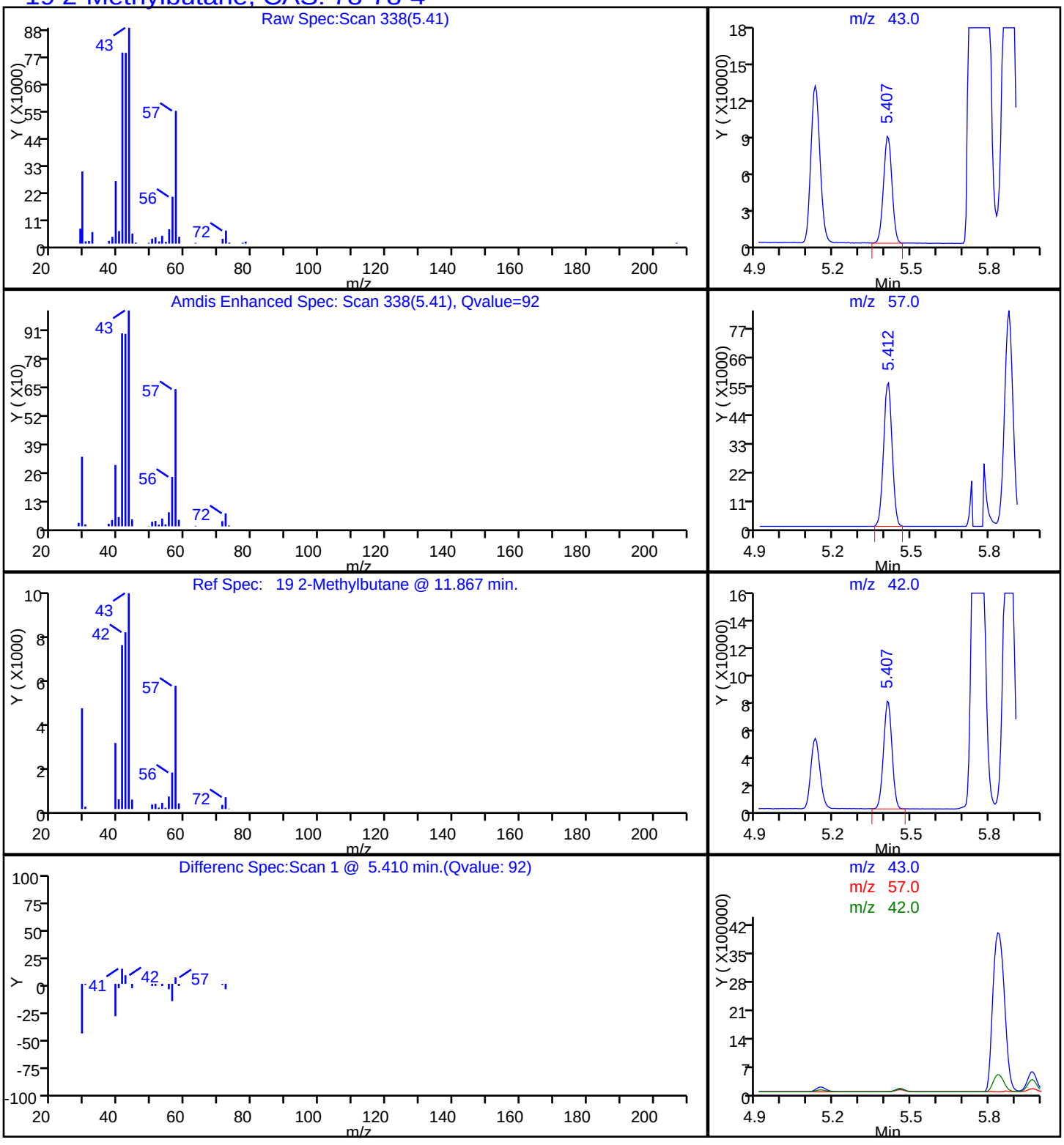
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



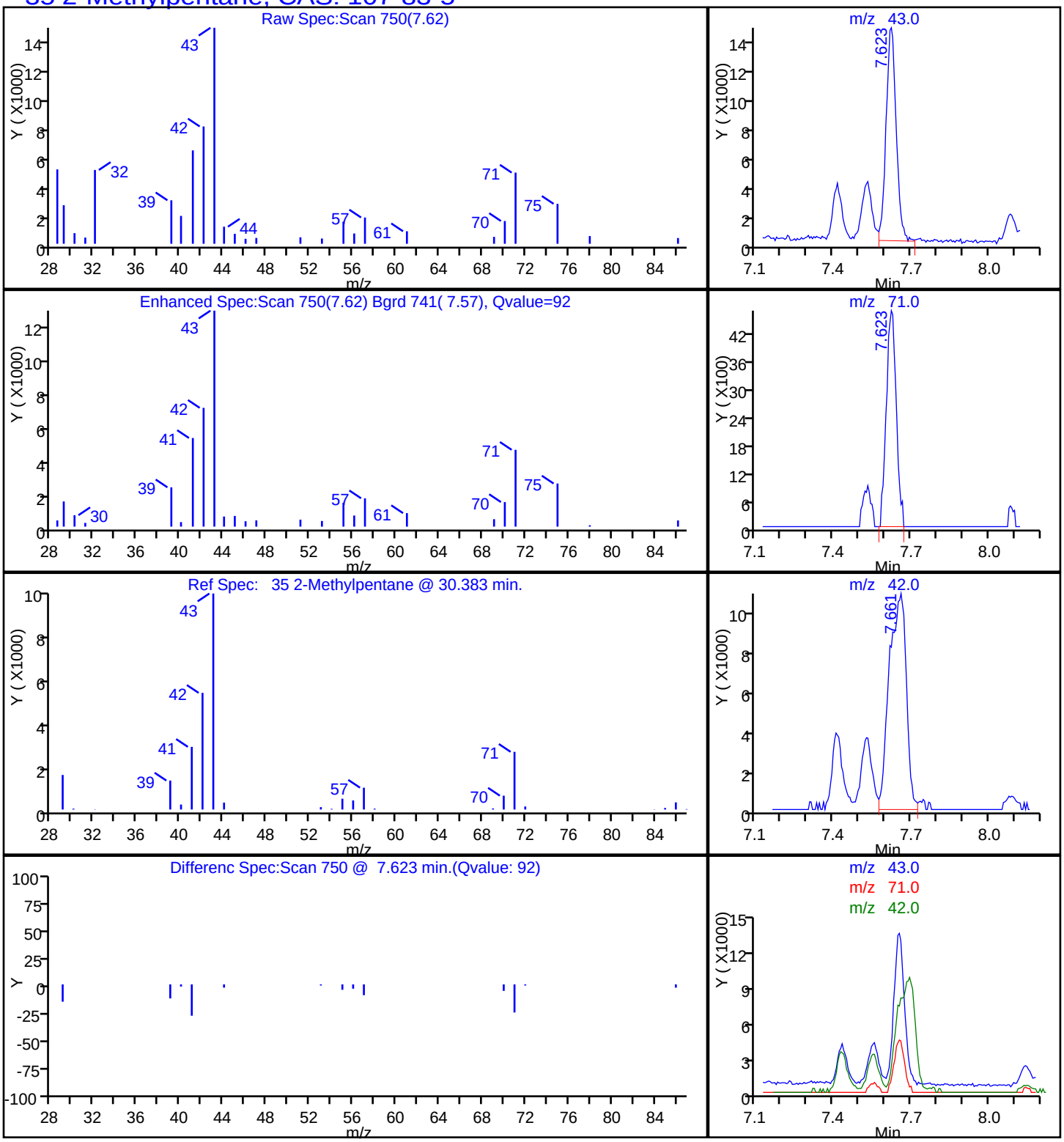
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5



Report Date: 19-Mar-2014 13:08:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

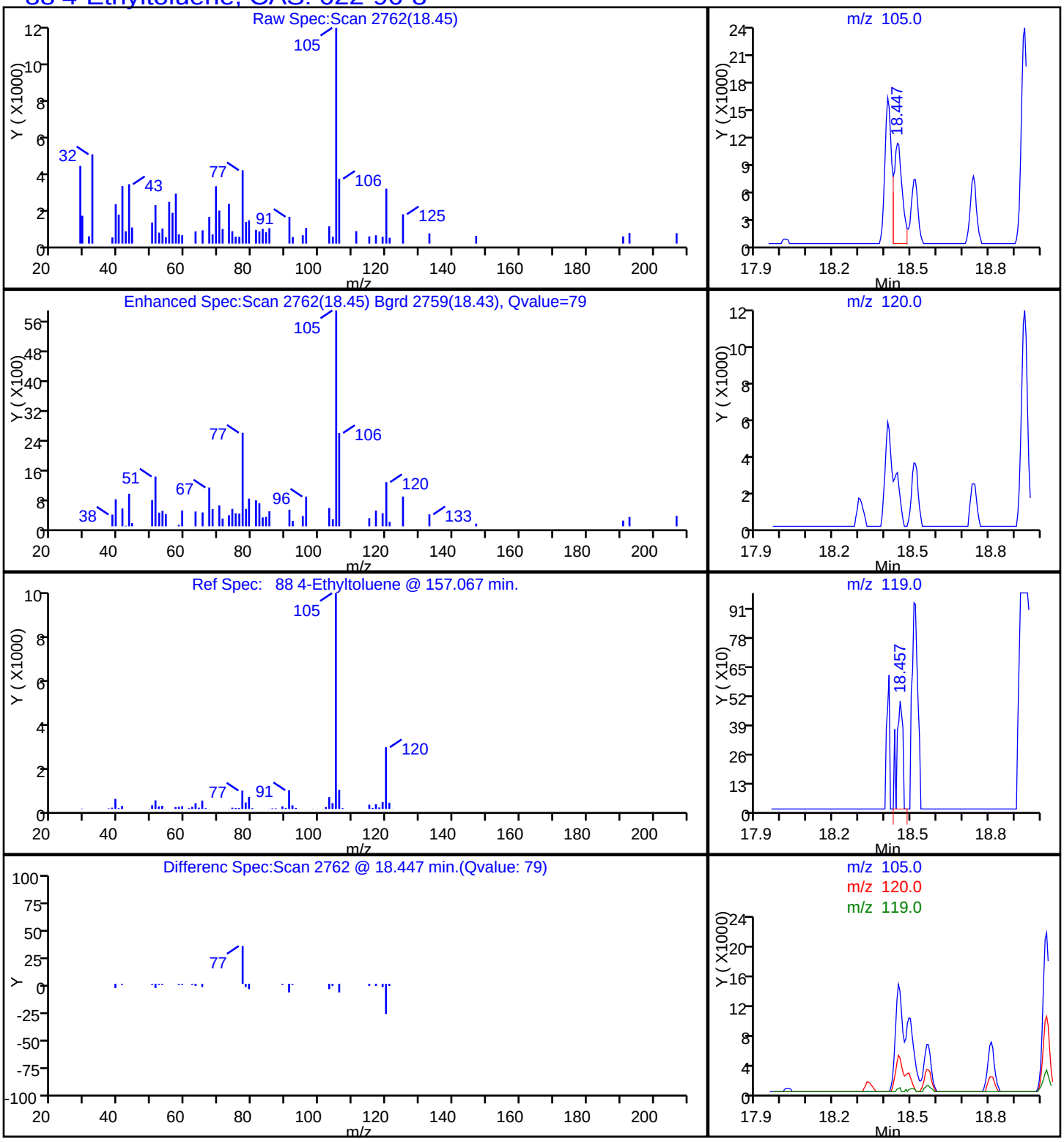
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



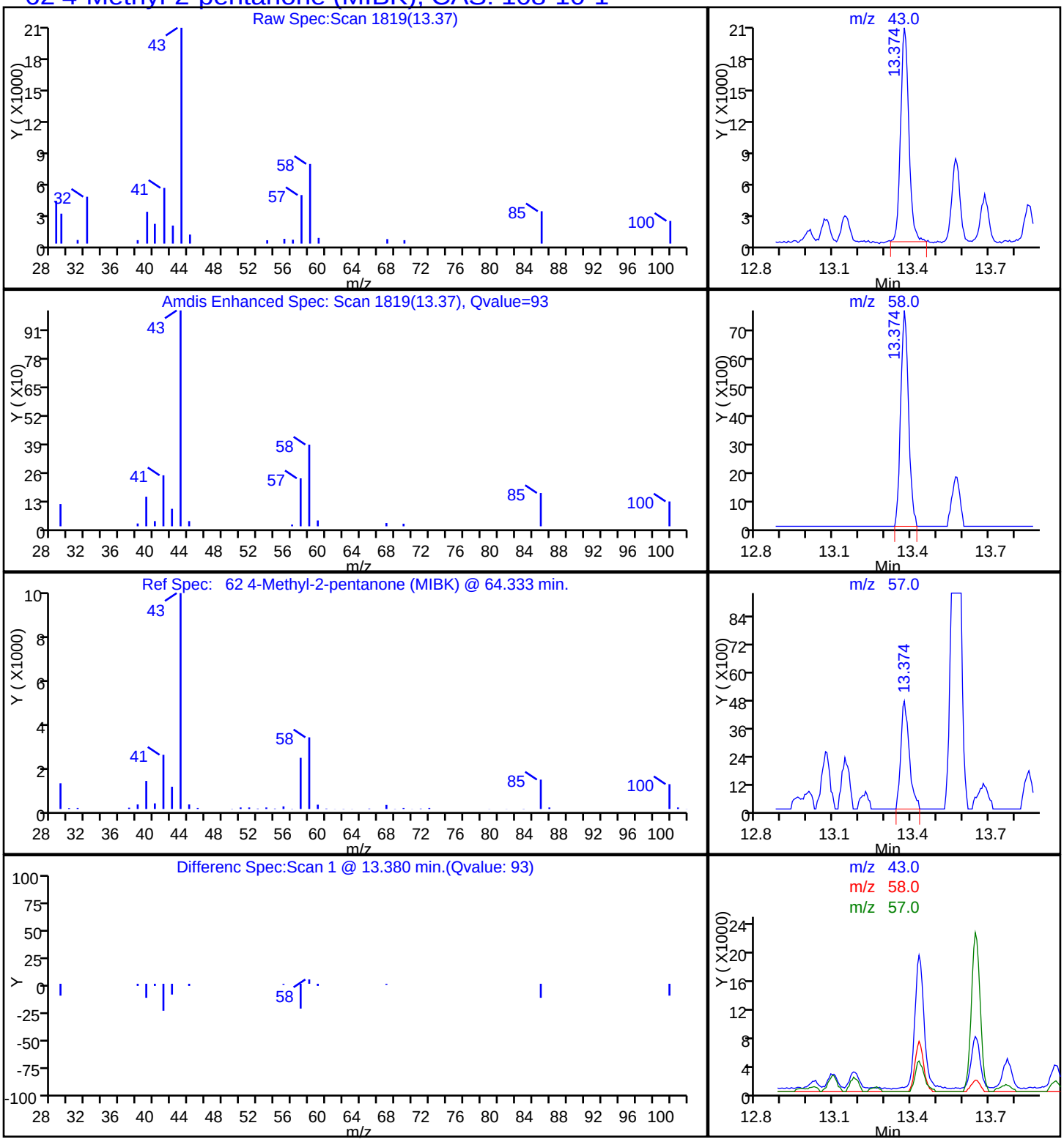
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



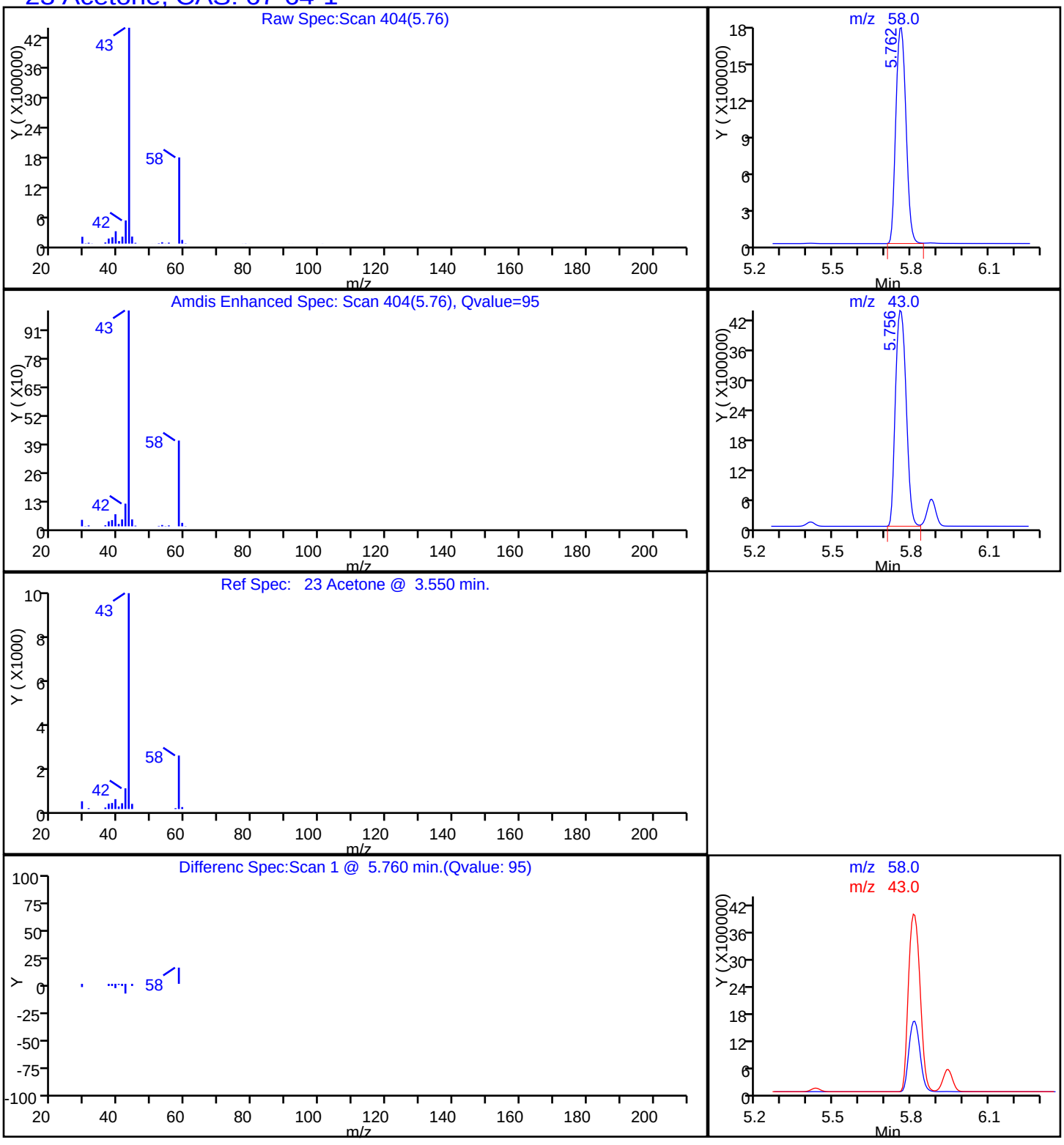
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

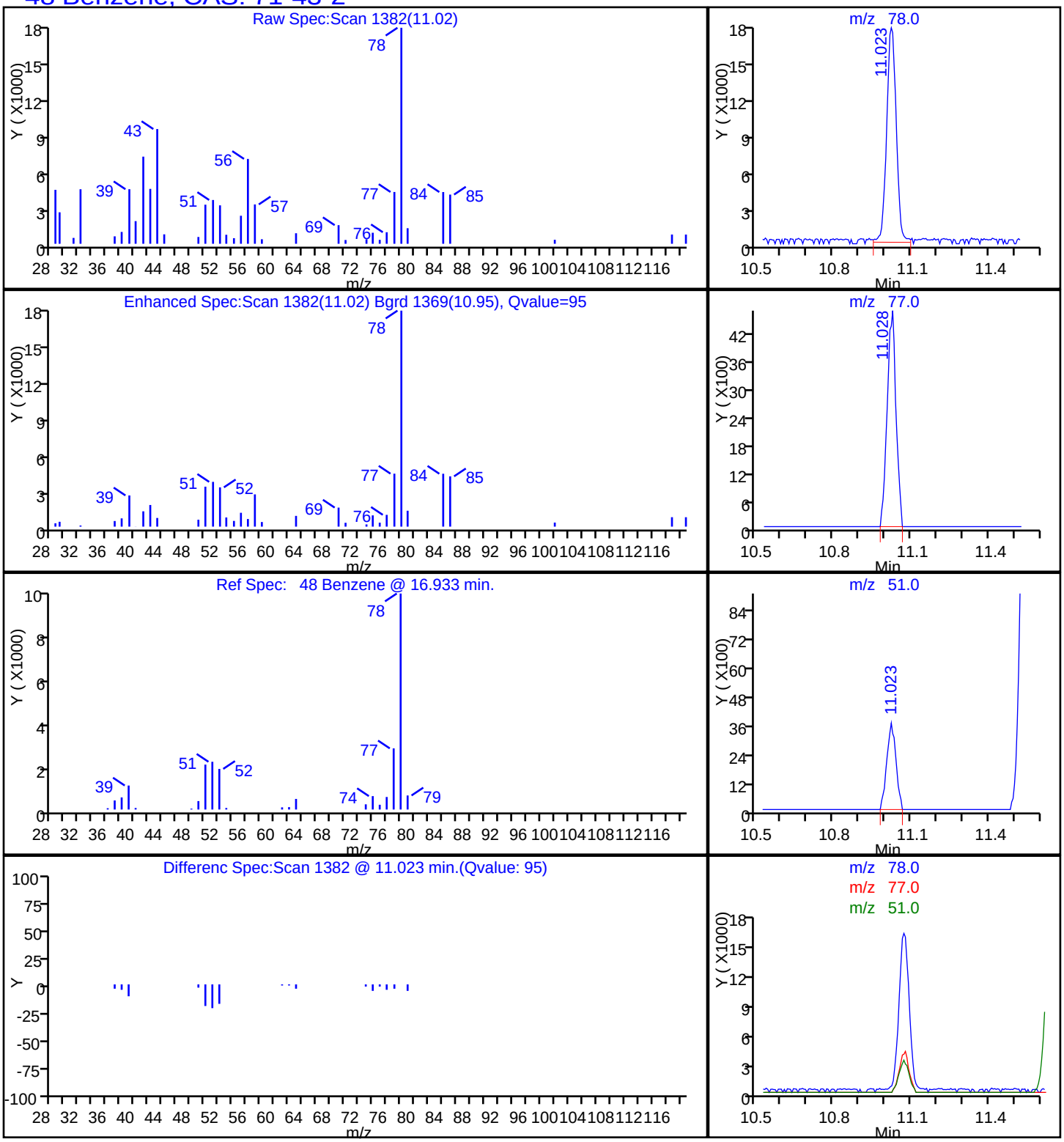


Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D				
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



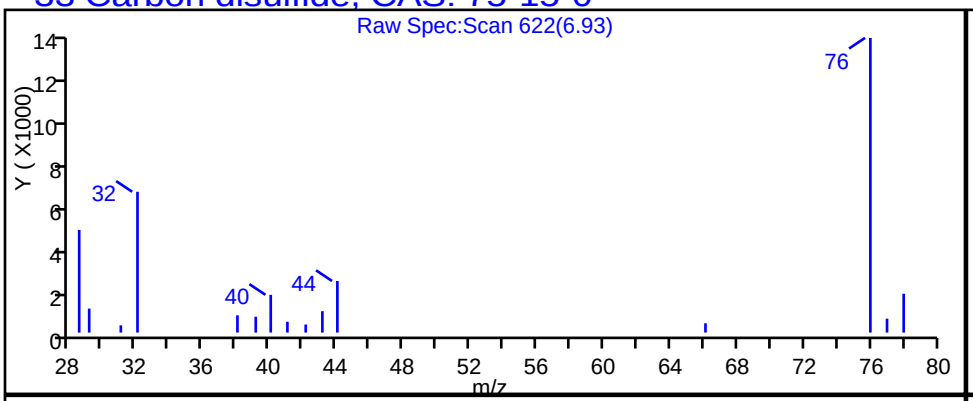
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

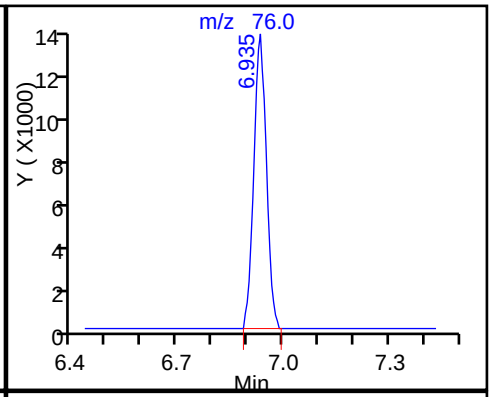
TestAmerica Knoxville

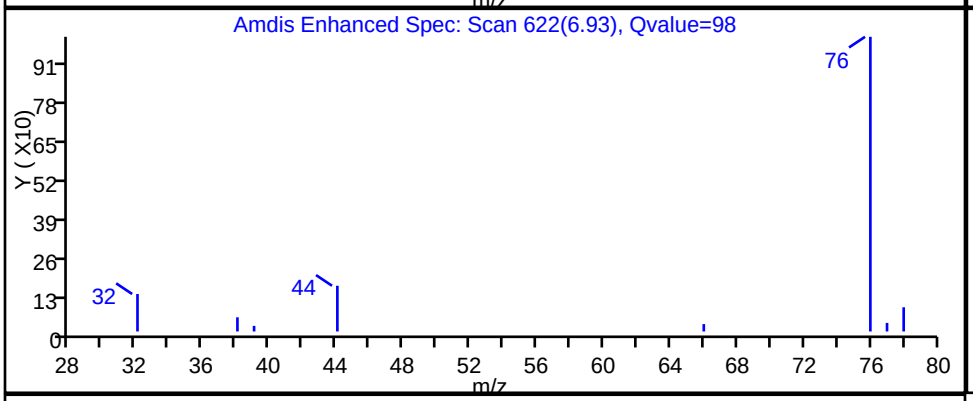
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

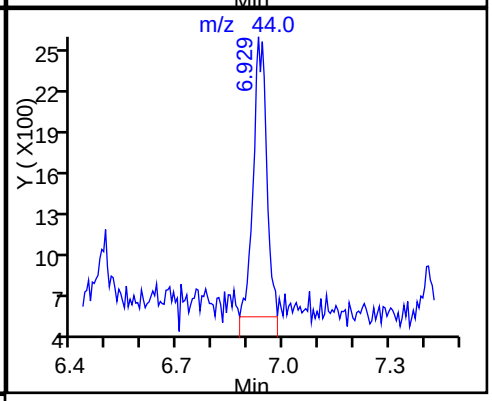
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

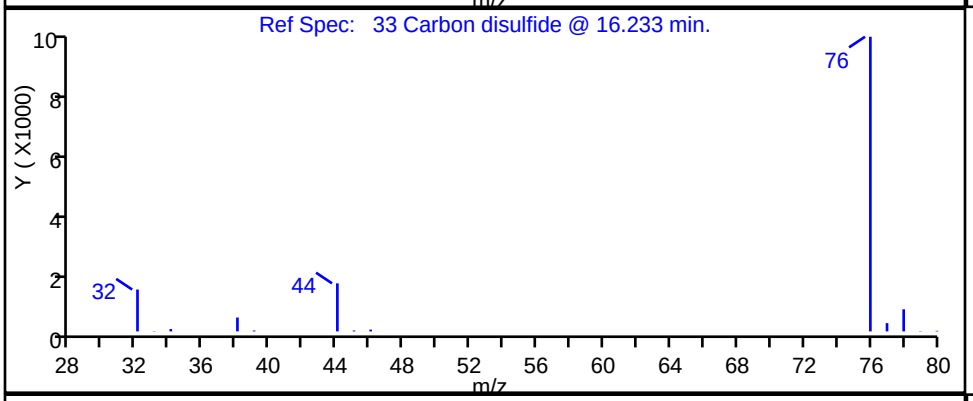
33 Carbon disulfide, CAS: 75-15-0

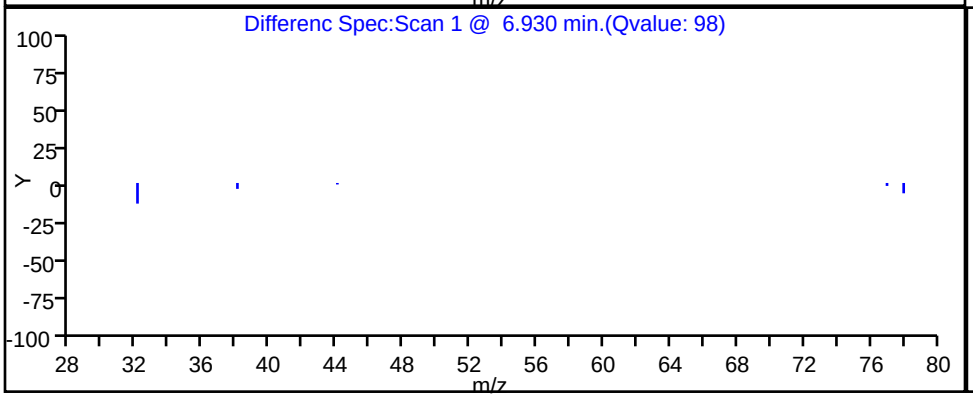


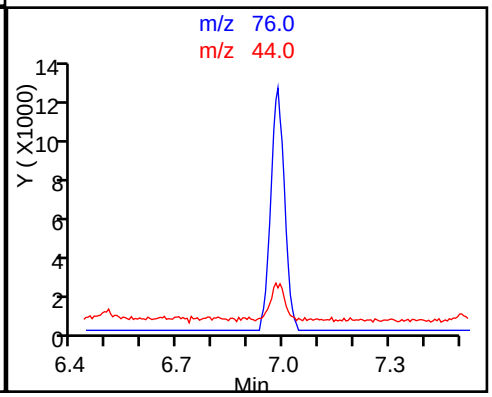












Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

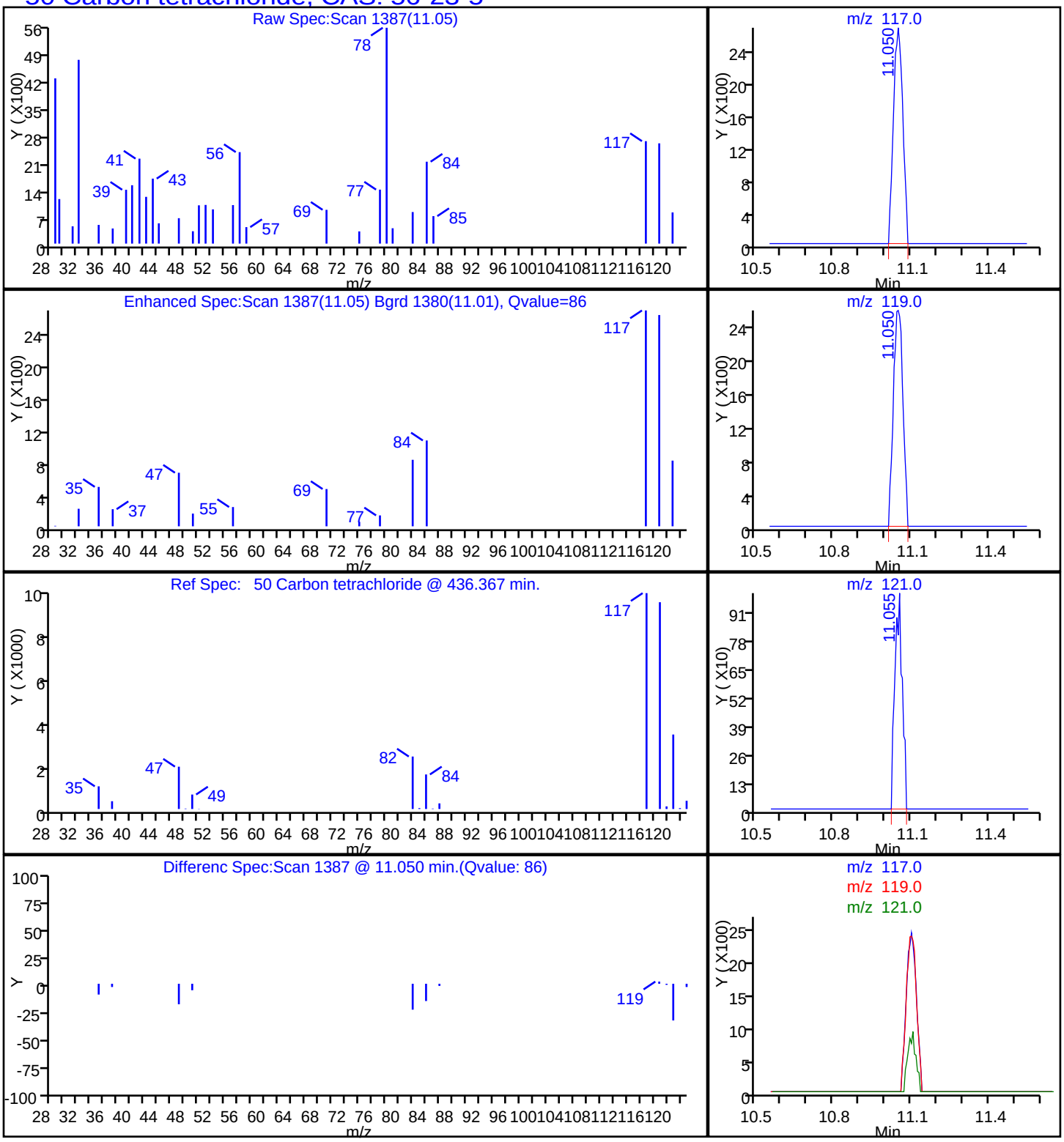
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



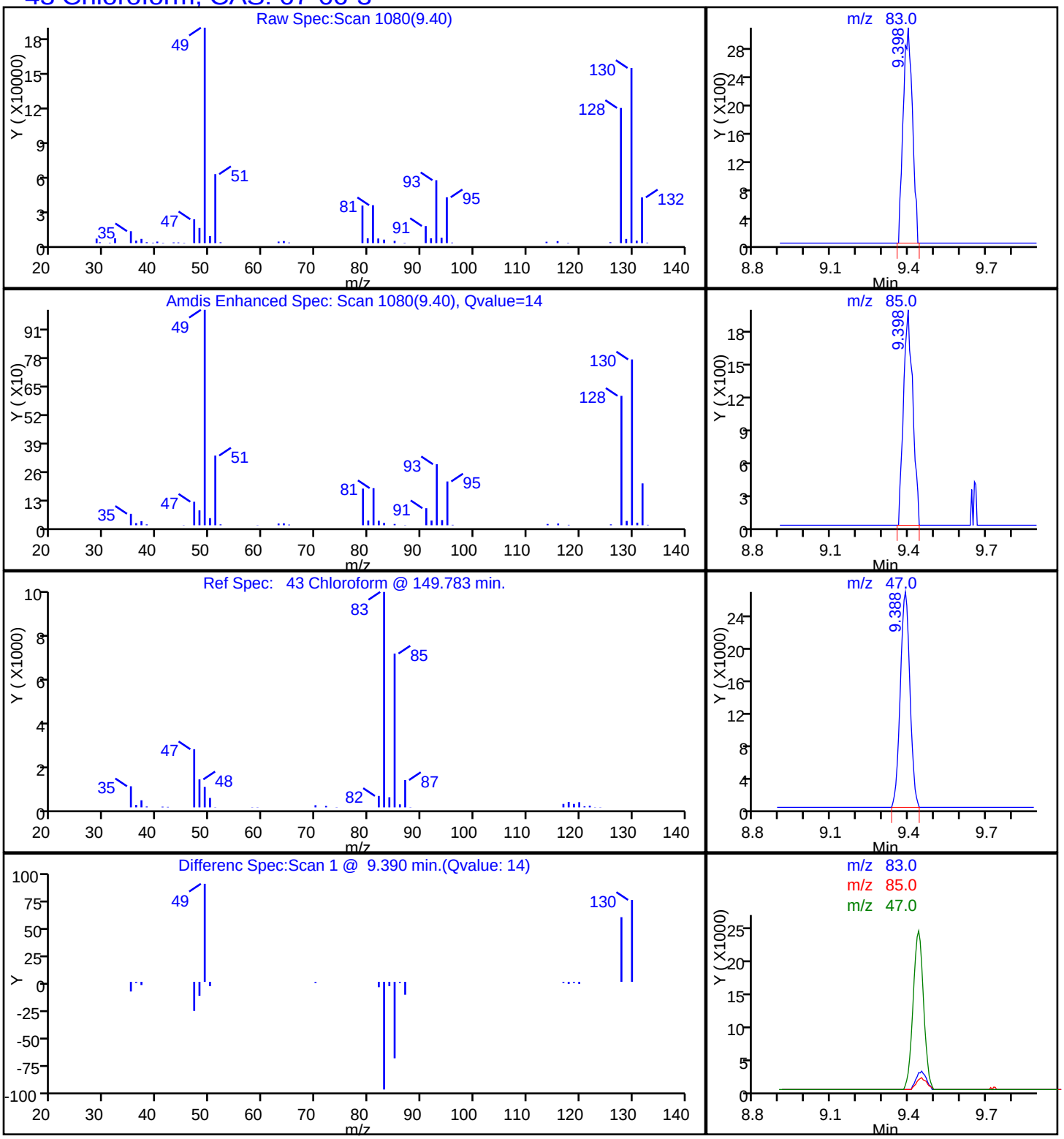
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ

Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

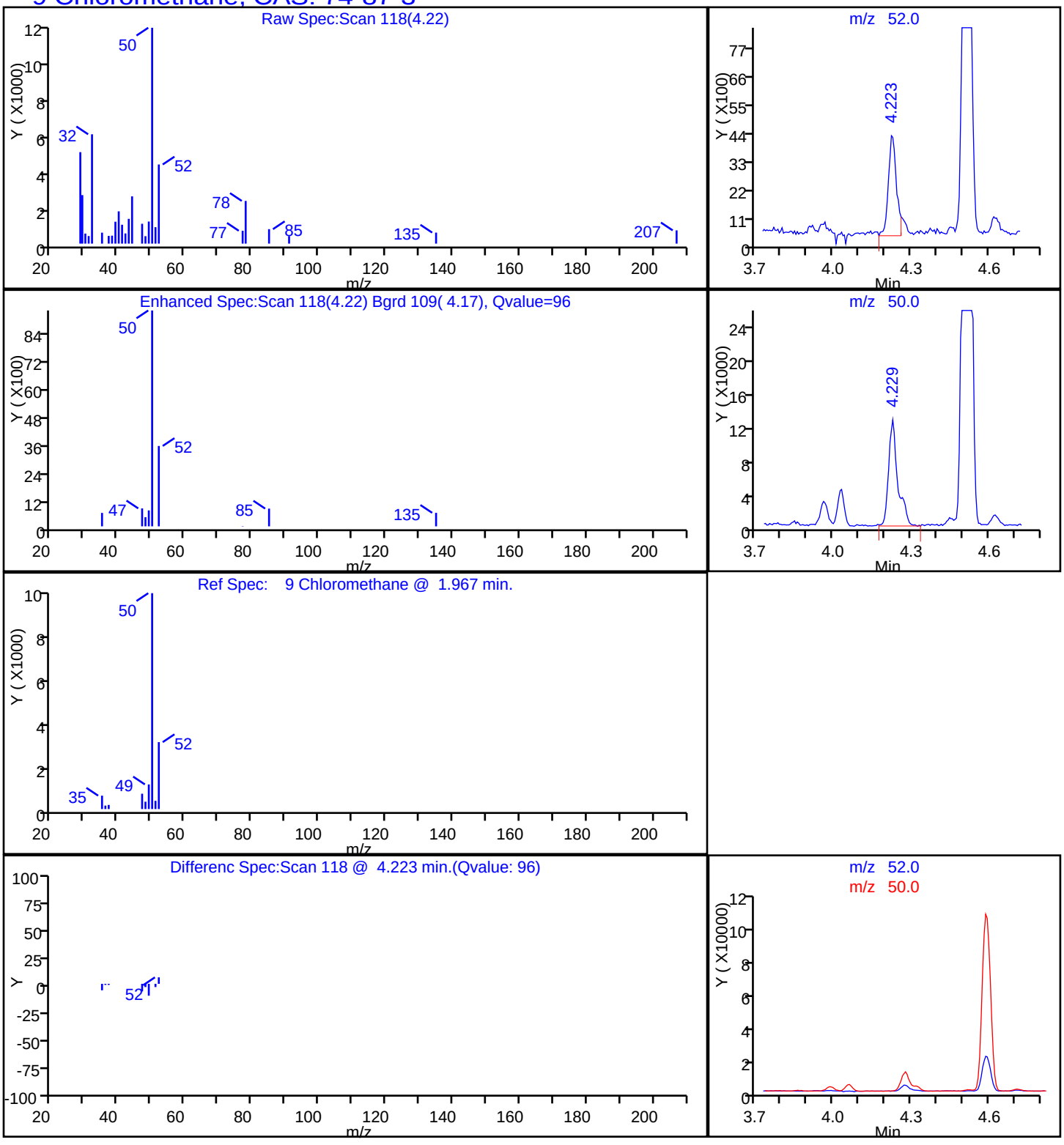
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



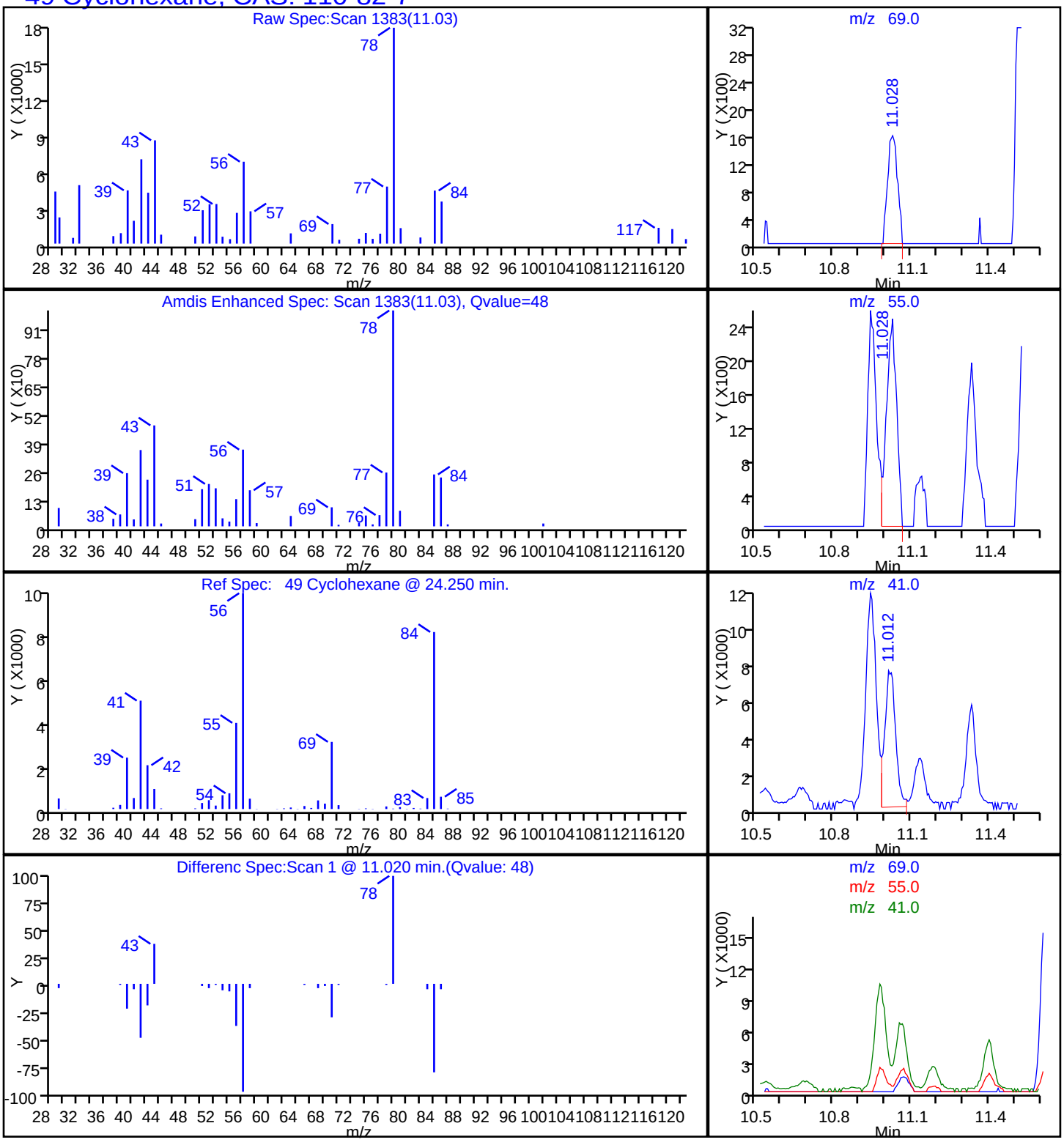
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

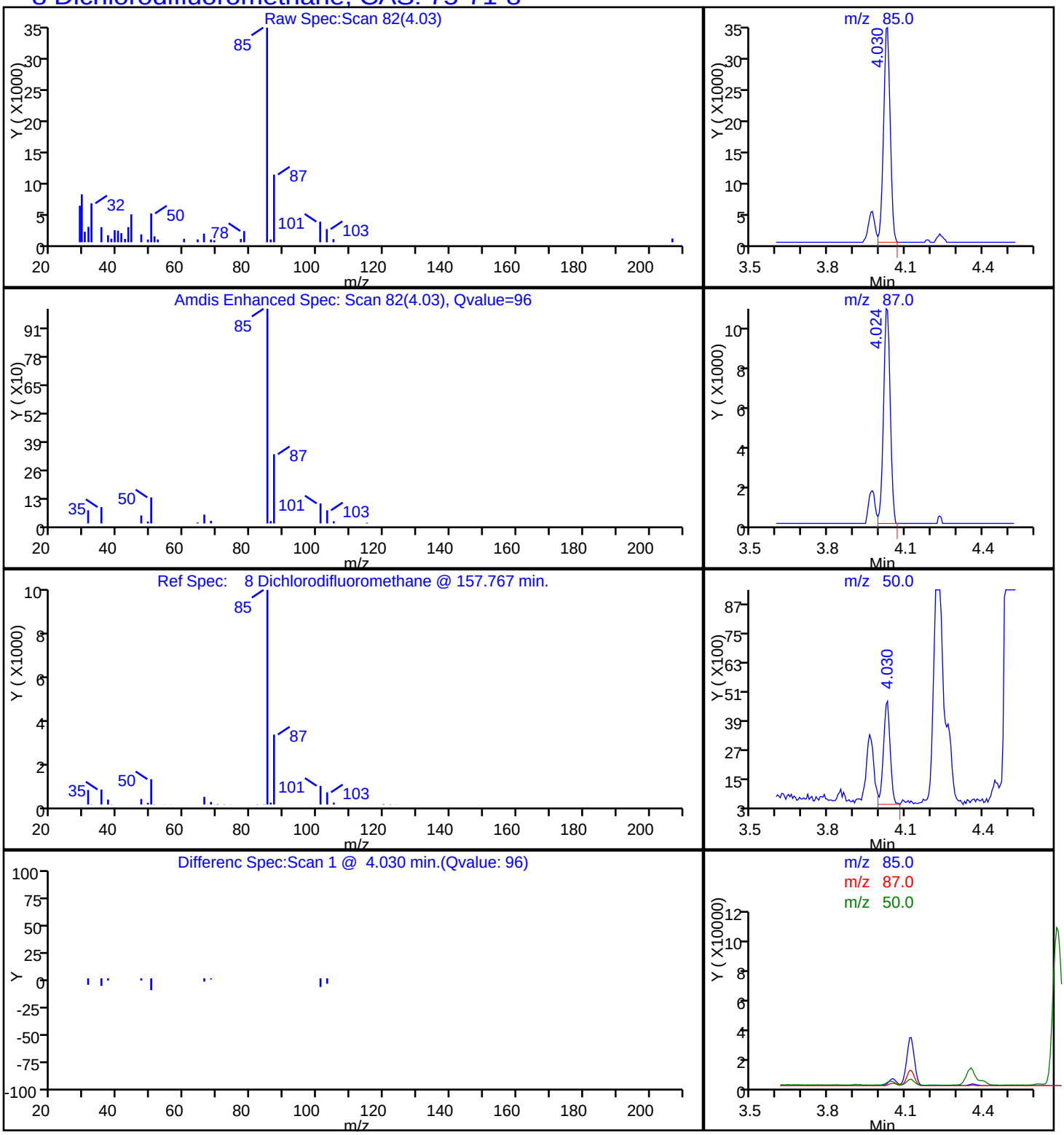
49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D				
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D				
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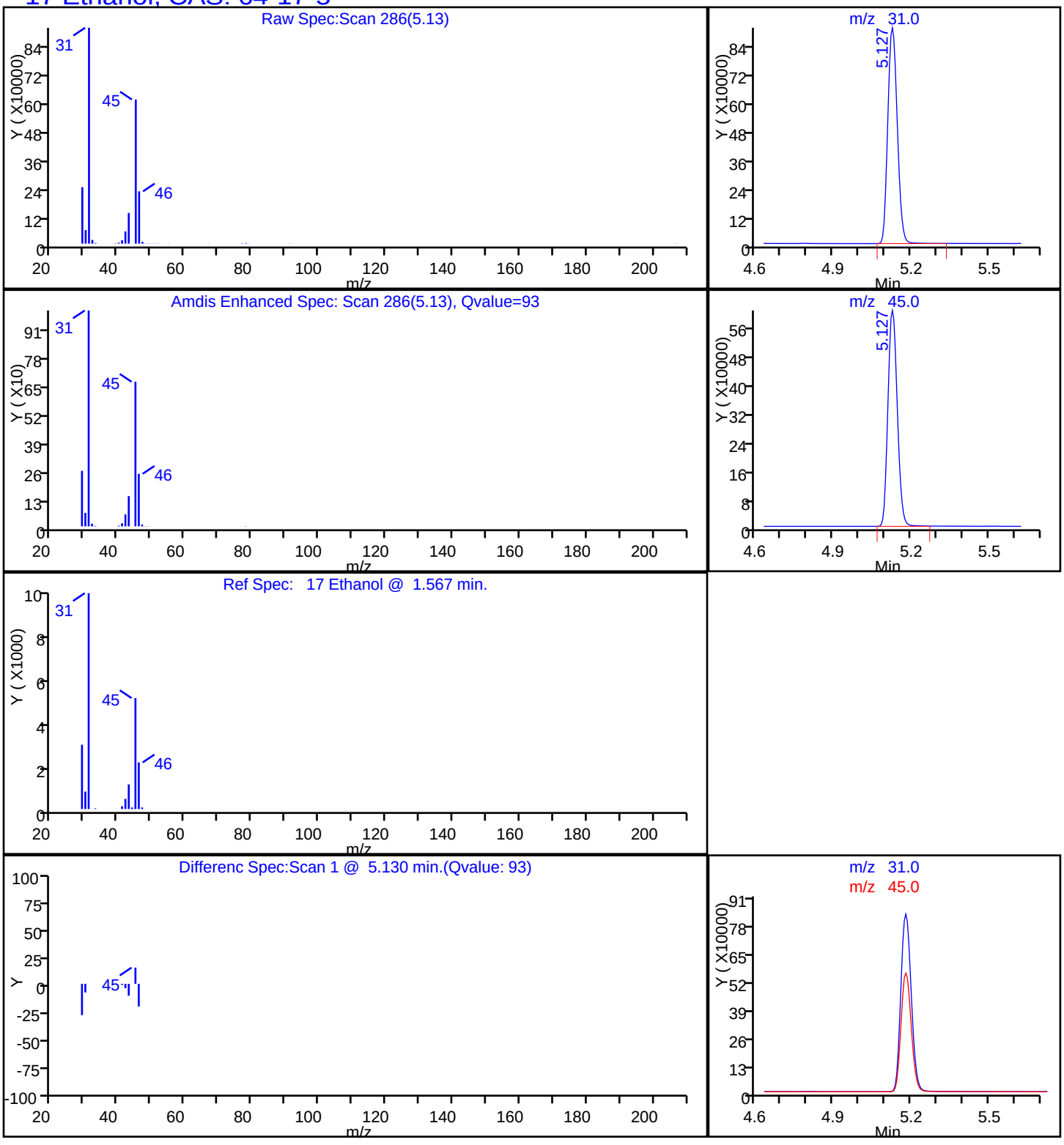
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



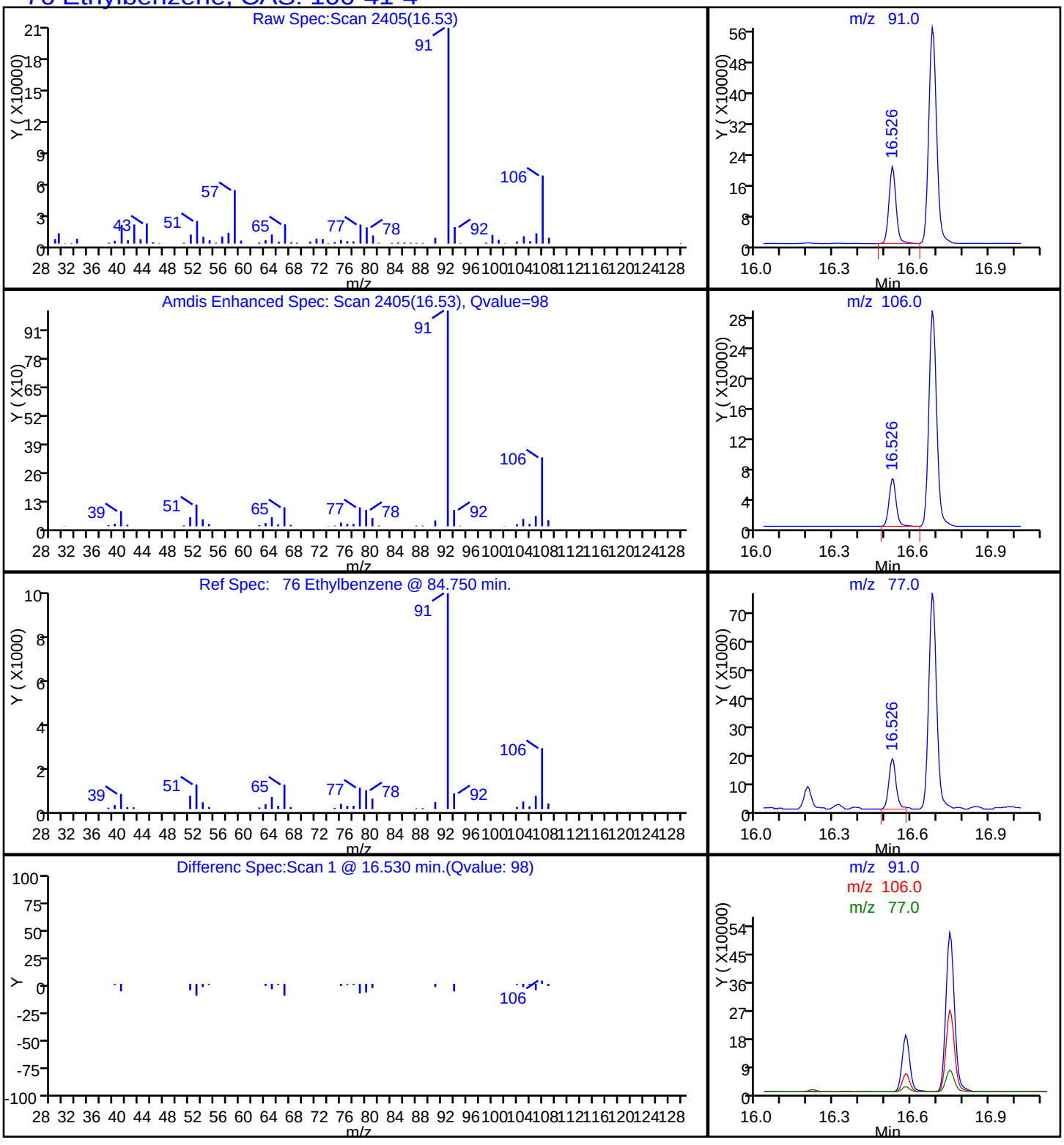
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17
Client ID:	PCV-IA2-B5		
Operator ID:	403648	ALS Bottle#:	16 Worklist Smp#: 28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
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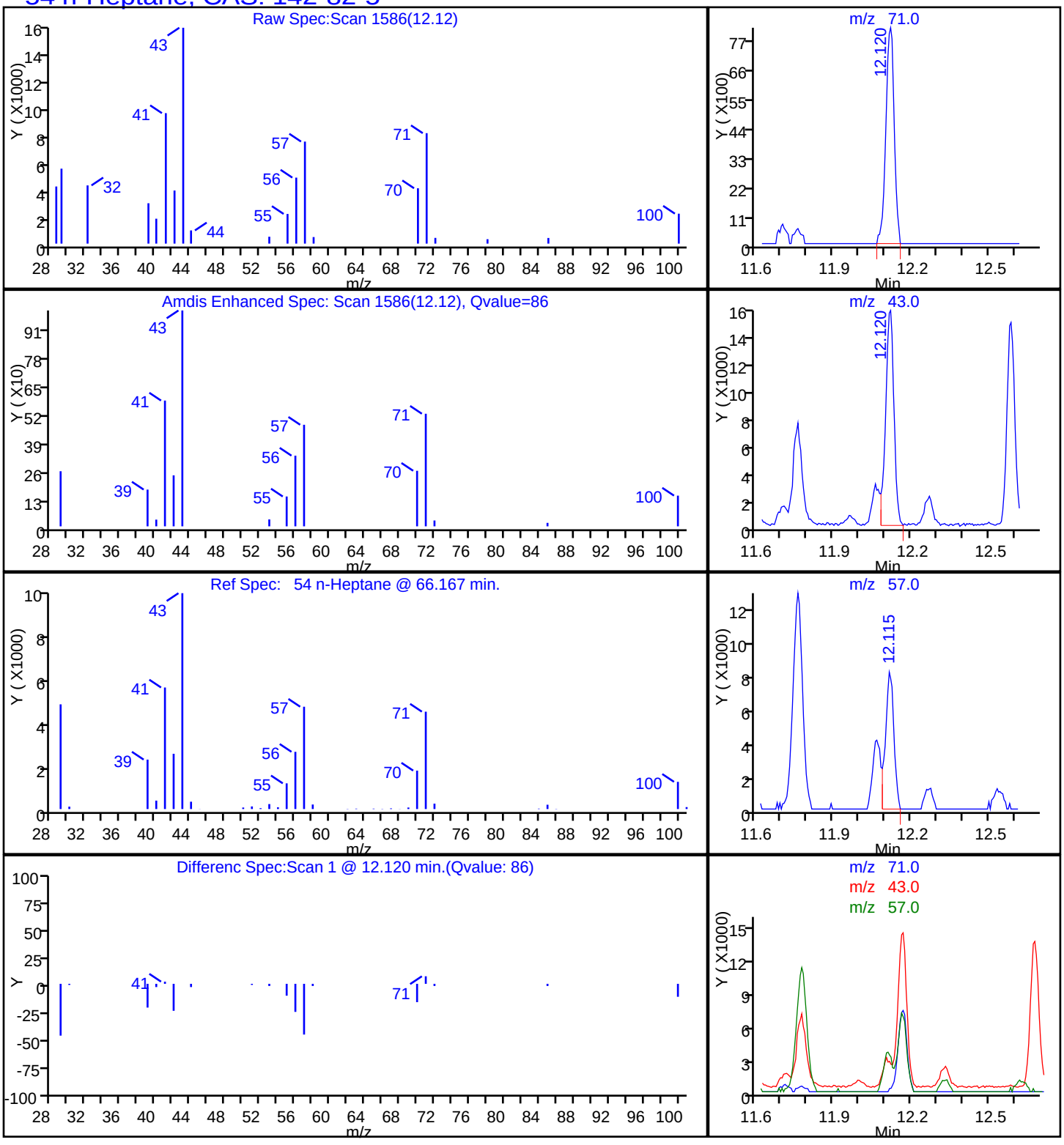
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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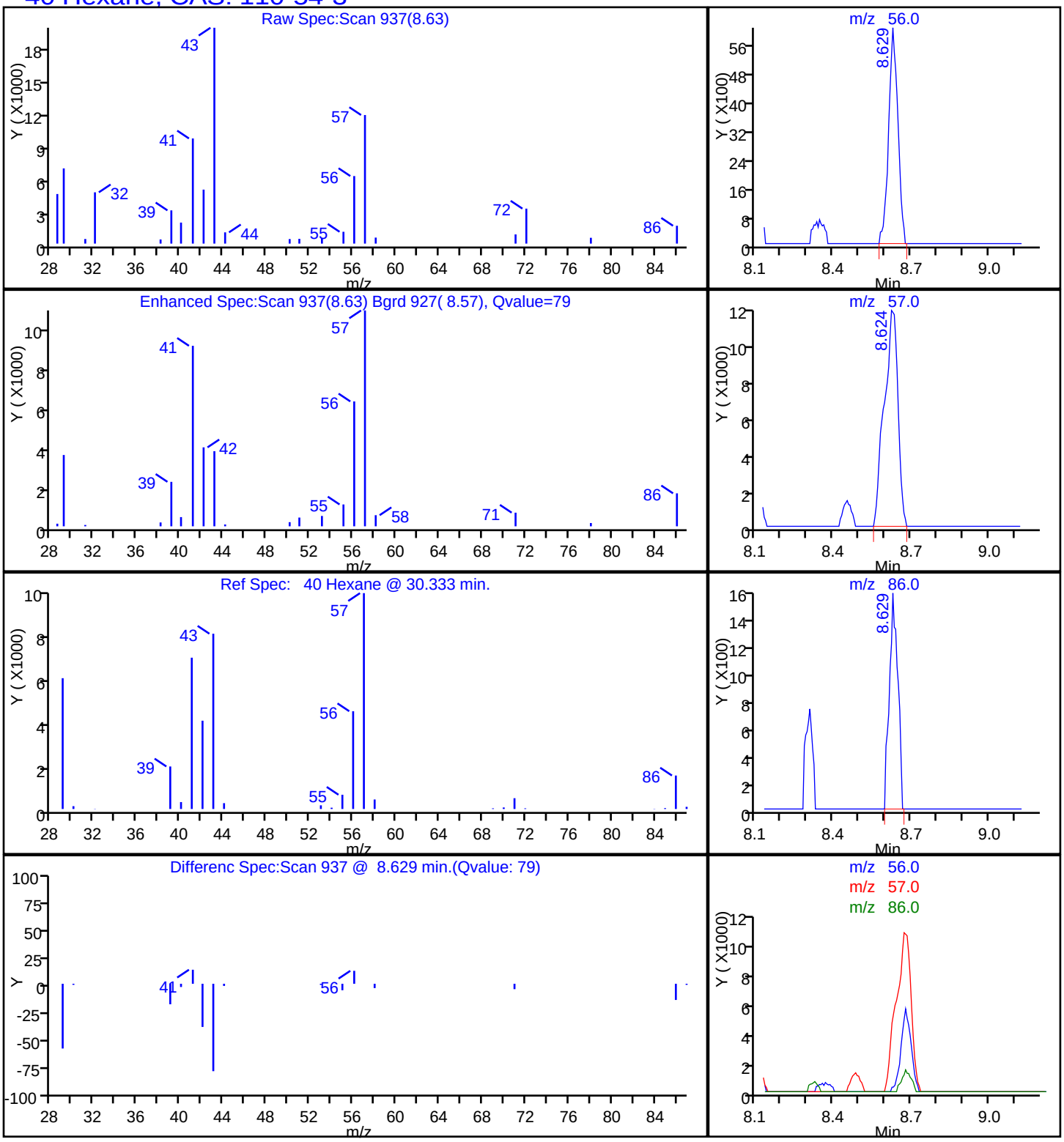
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



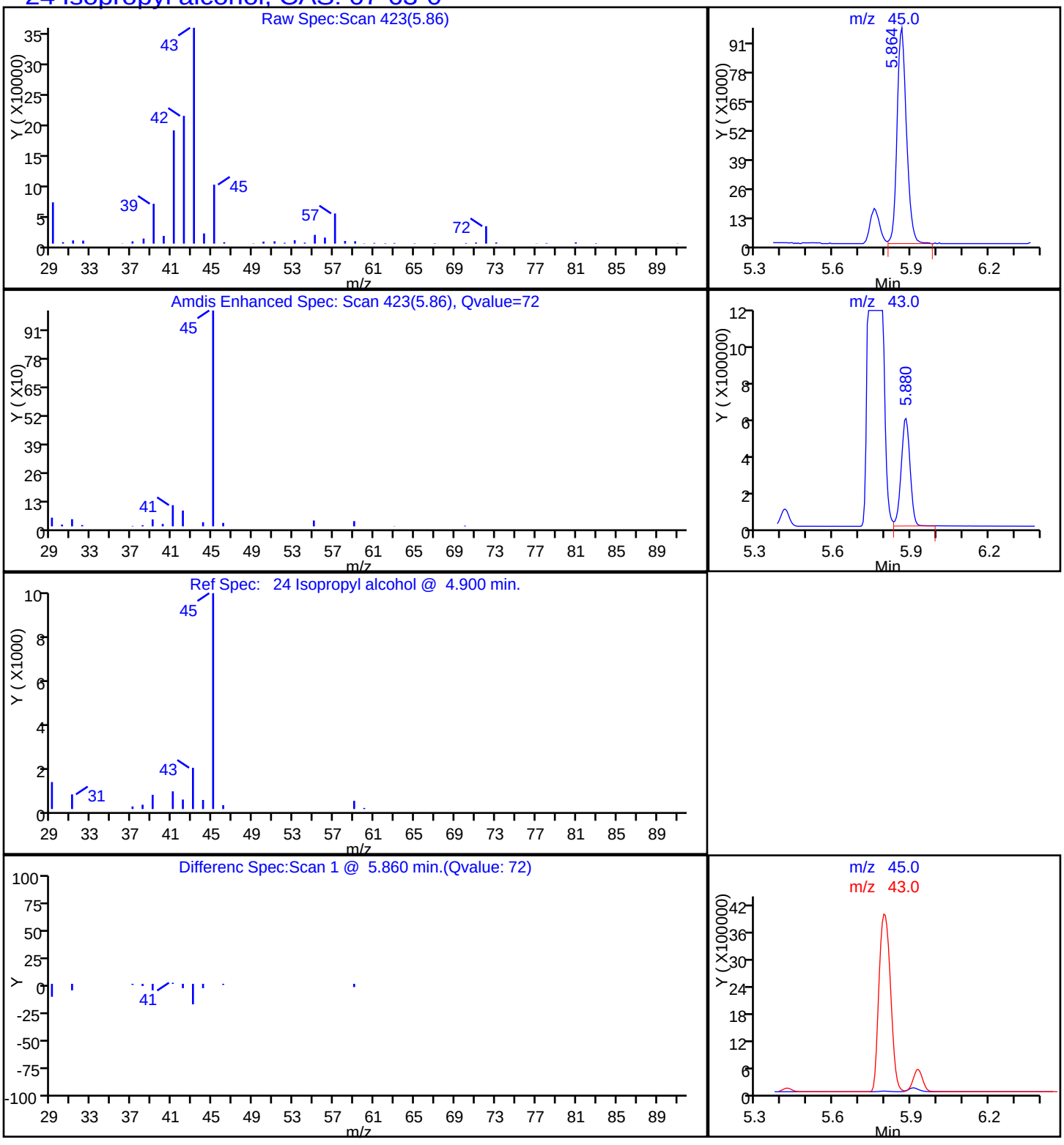
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



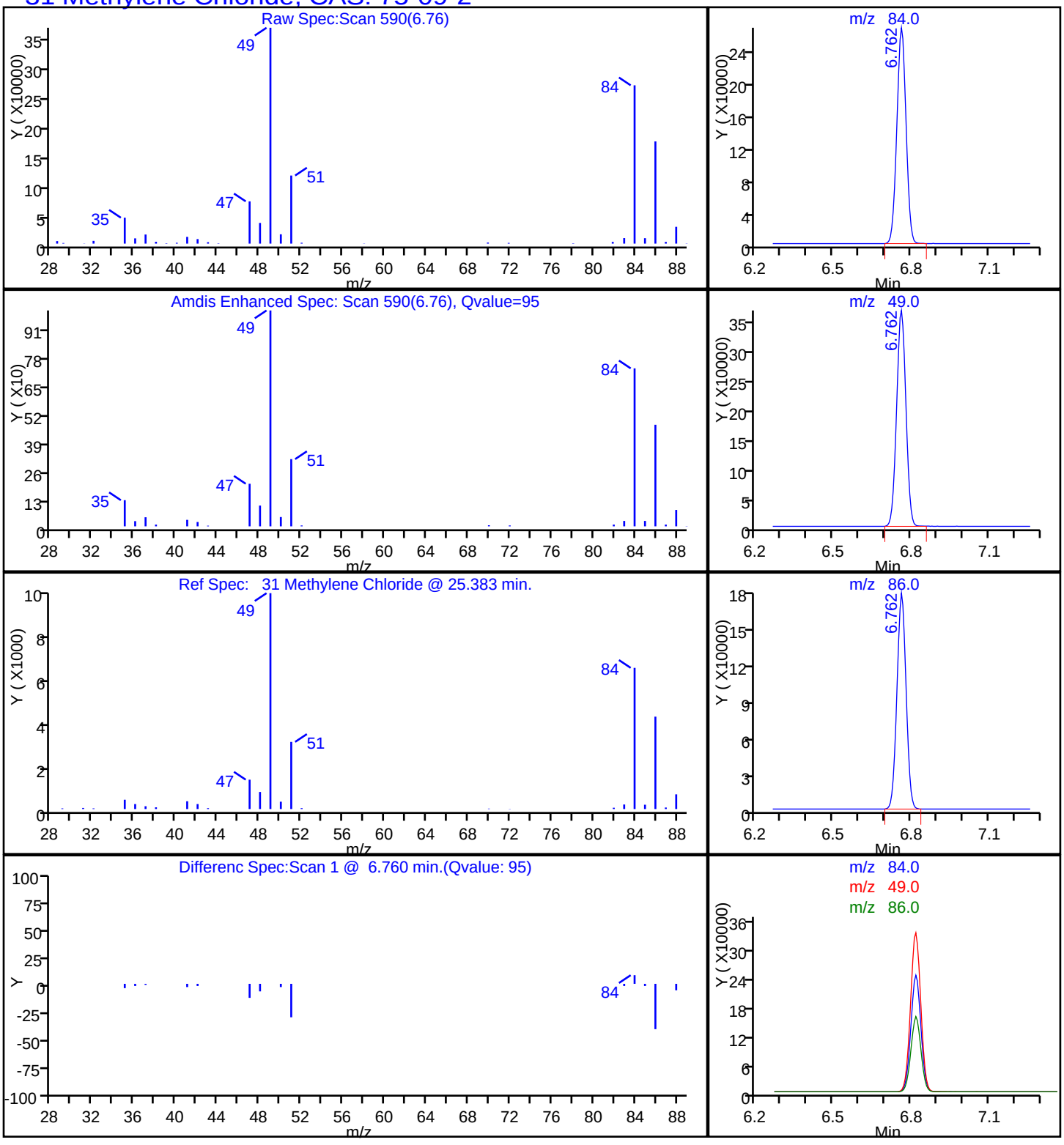
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



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TestAmerica Knoxville

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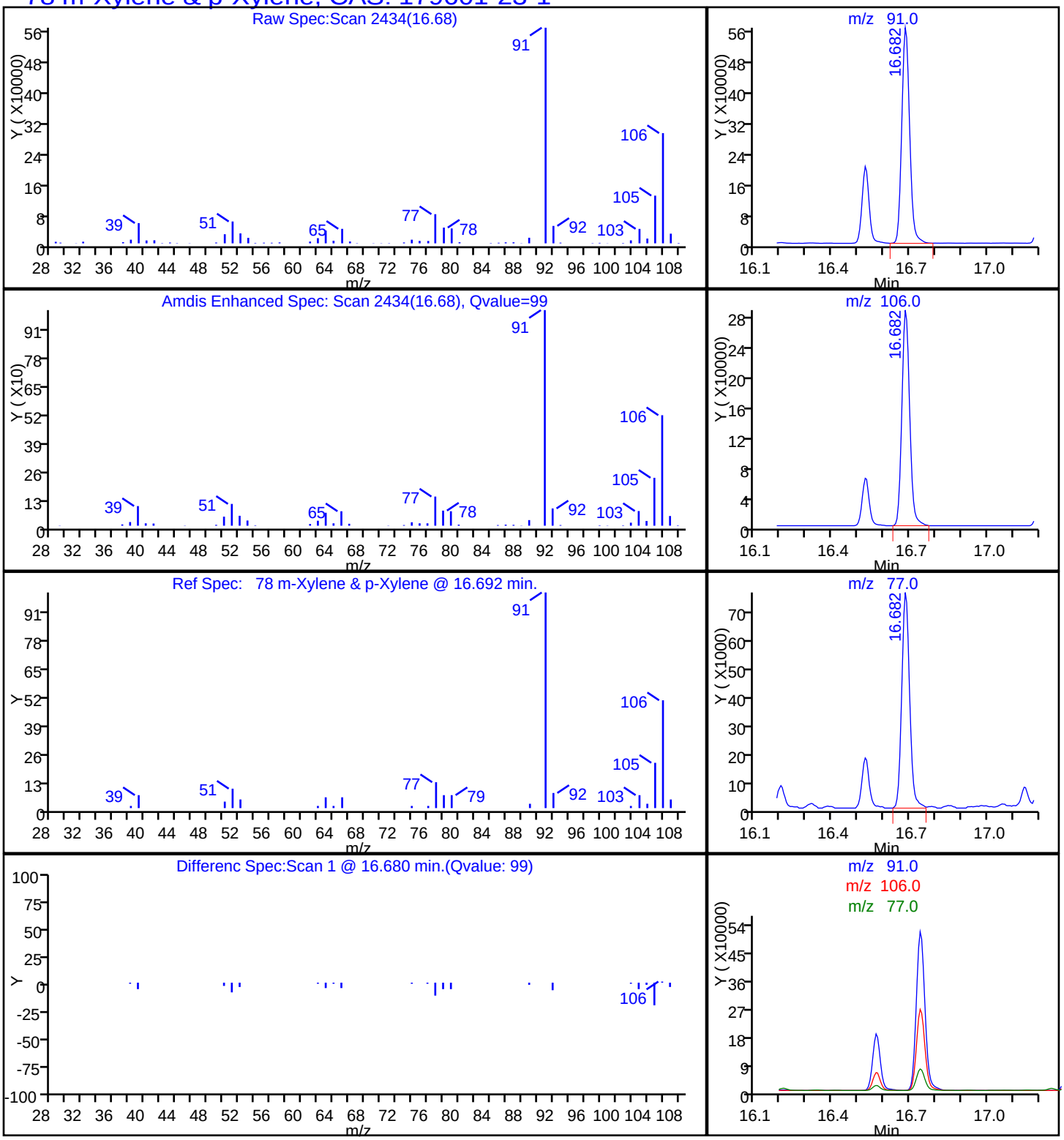
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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TestAmerica Knoxville

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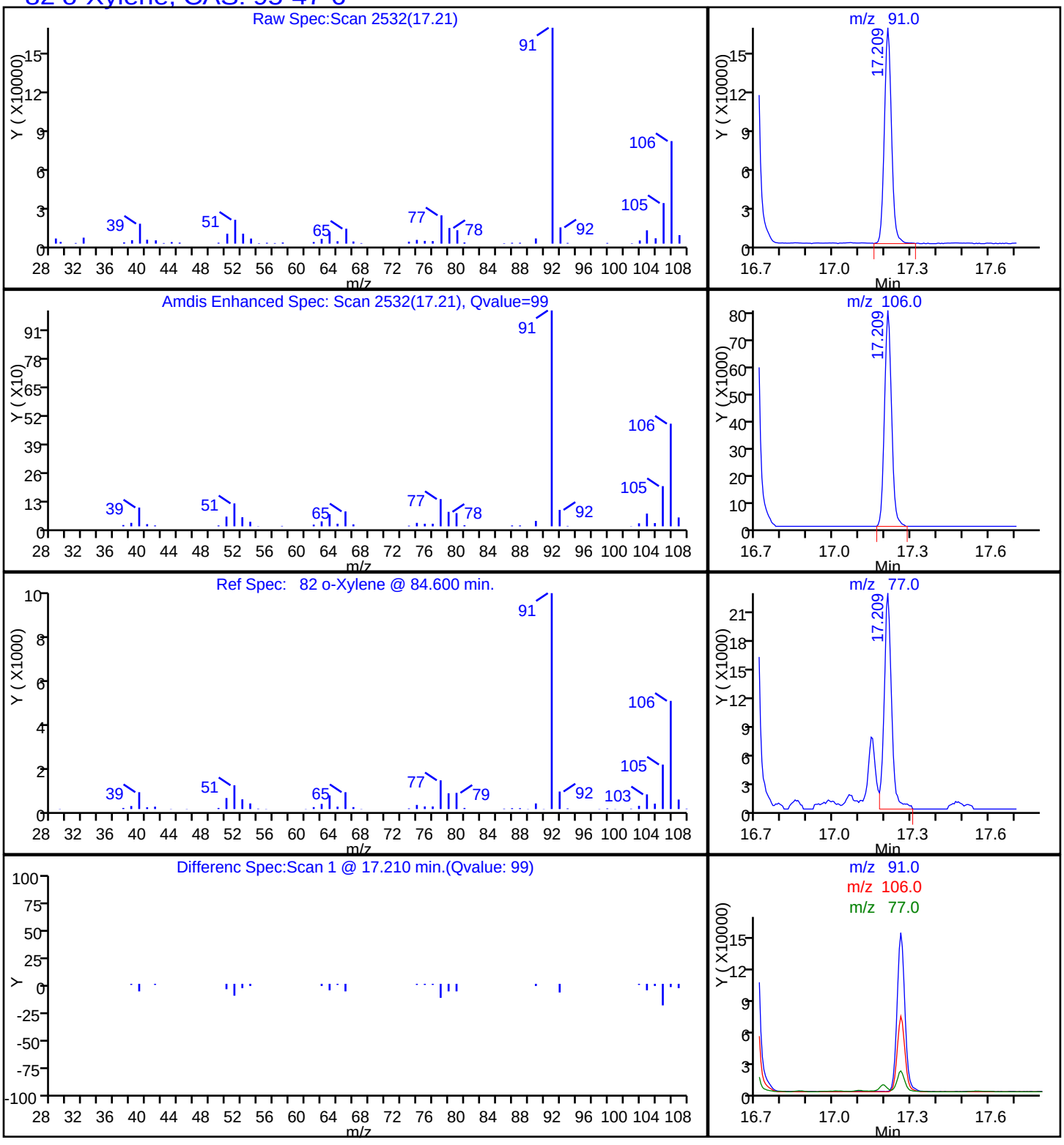
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17
Client ID:	PCV-IA2-B5		
Operator ID:	403648	ALS Bottle#:	16 Worklist Smp#: 28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



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TestAmerica Knoxville

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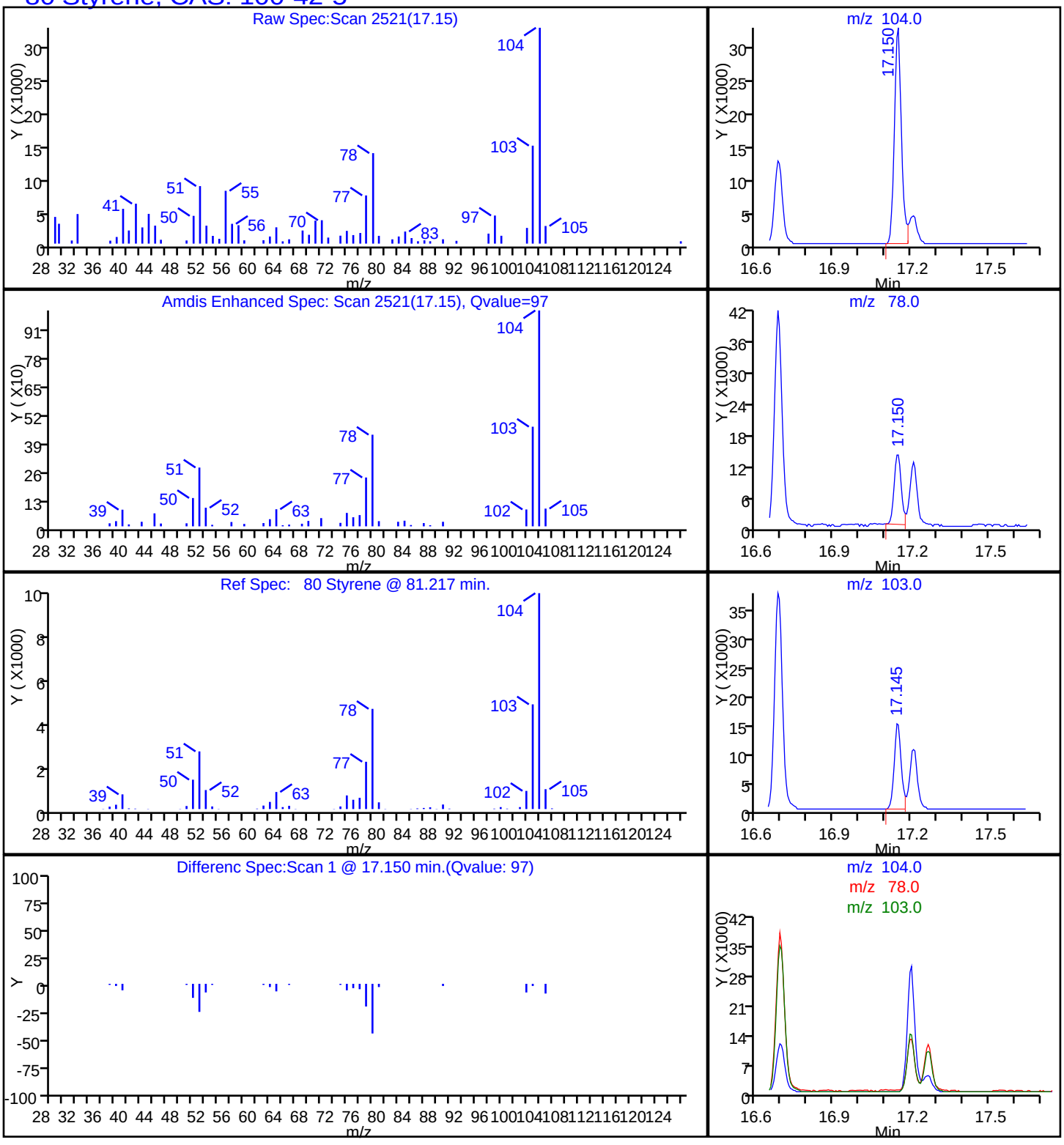
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



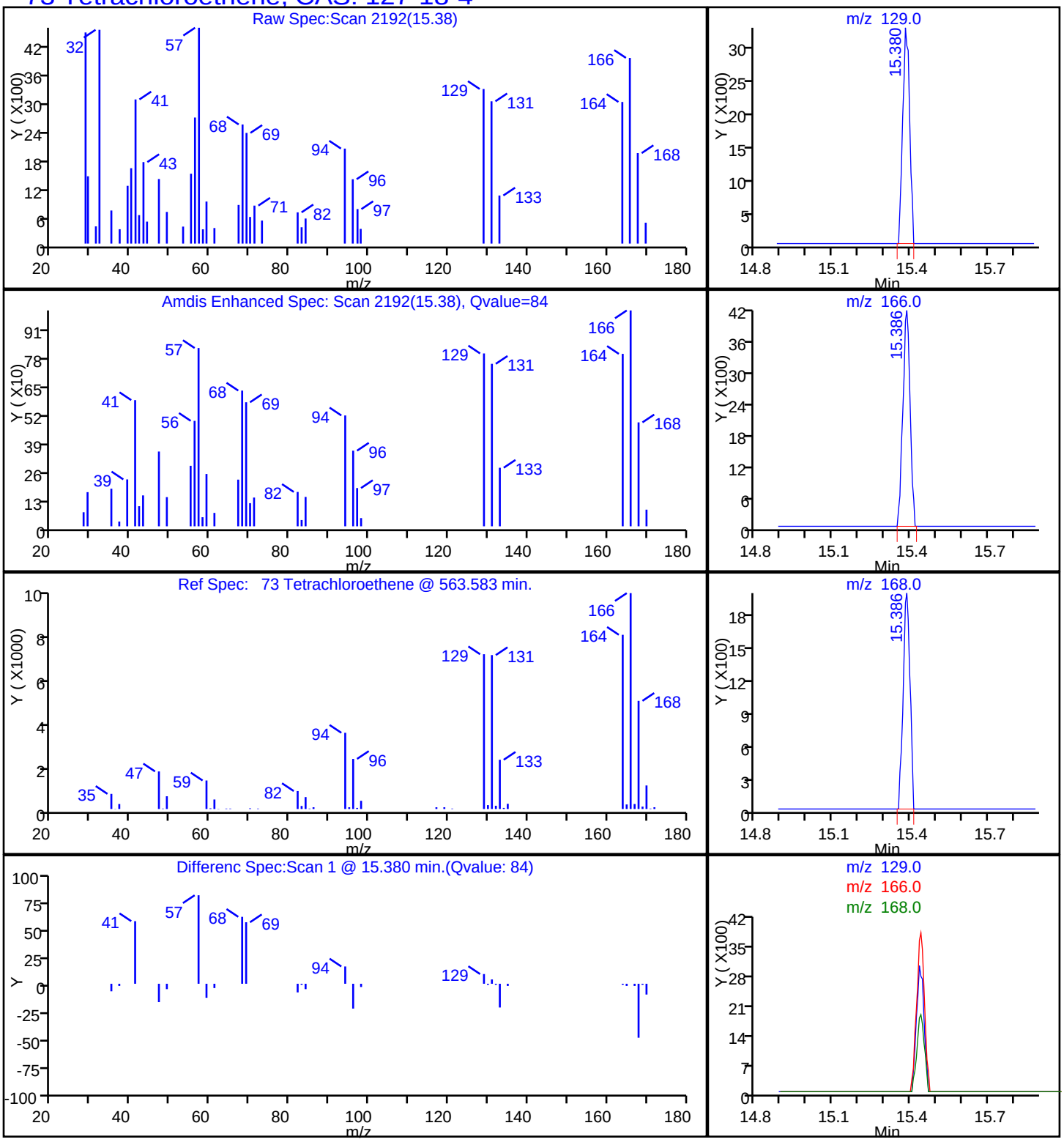
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



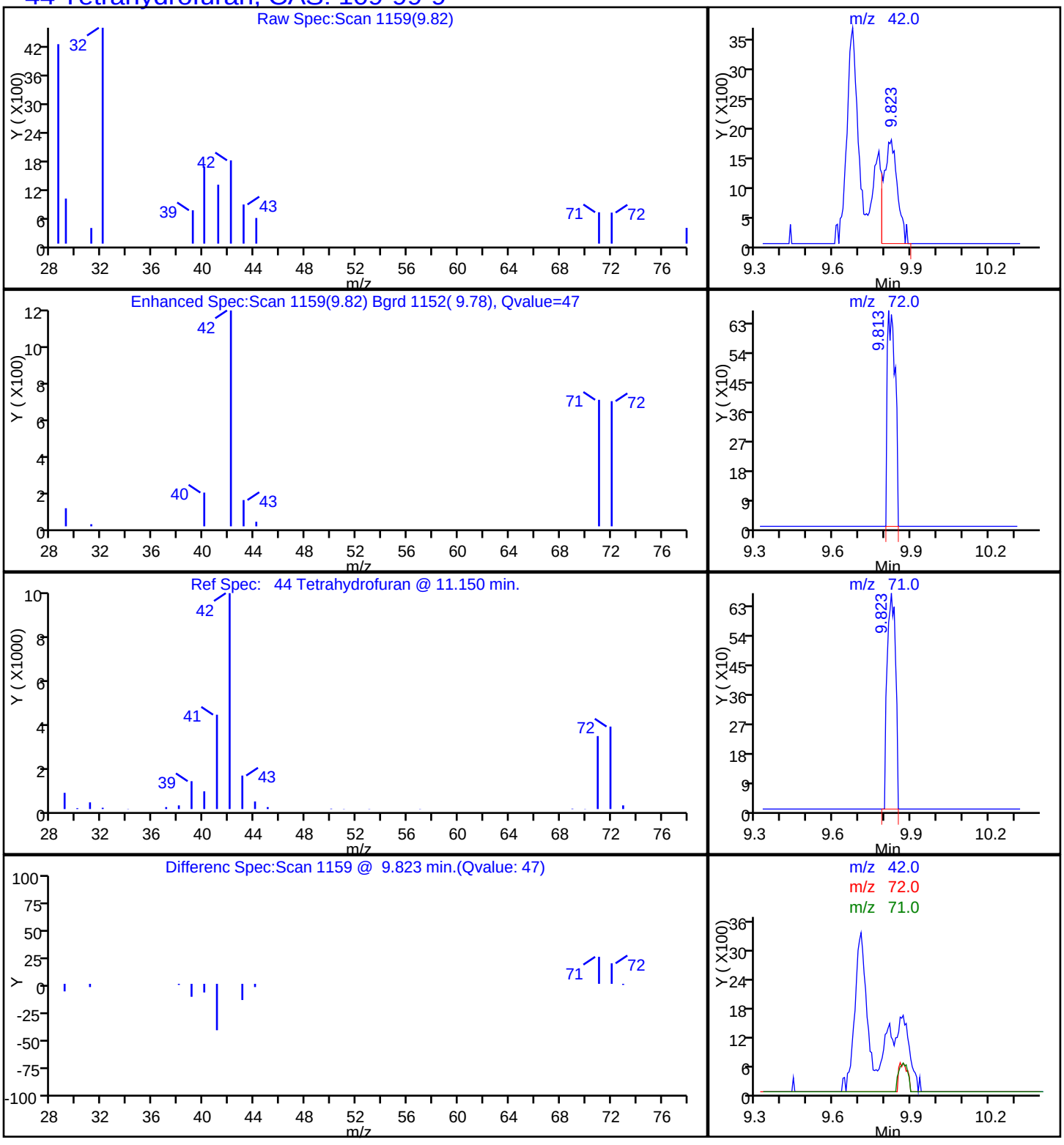
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

44 Tetrahydrofuran, CAS: 109-99-9



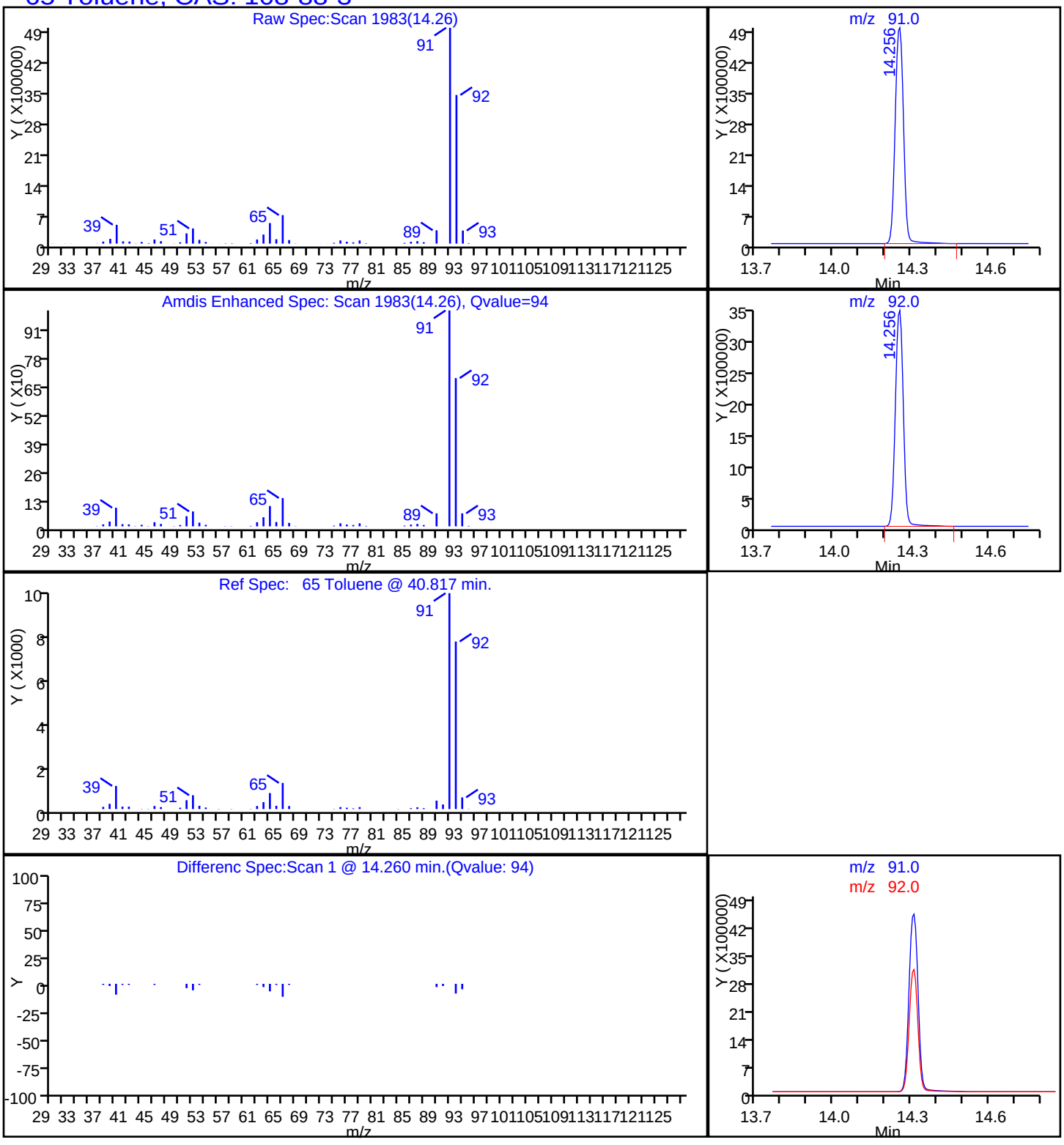
Report Date: 19-Mar-2014 13:08:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17
Client ID:	PCV-IA2-B5		
Operator ID:	403648	ALS Bottle#:	16 Worklist Smp#: 28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



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TestAmerica Knoxville

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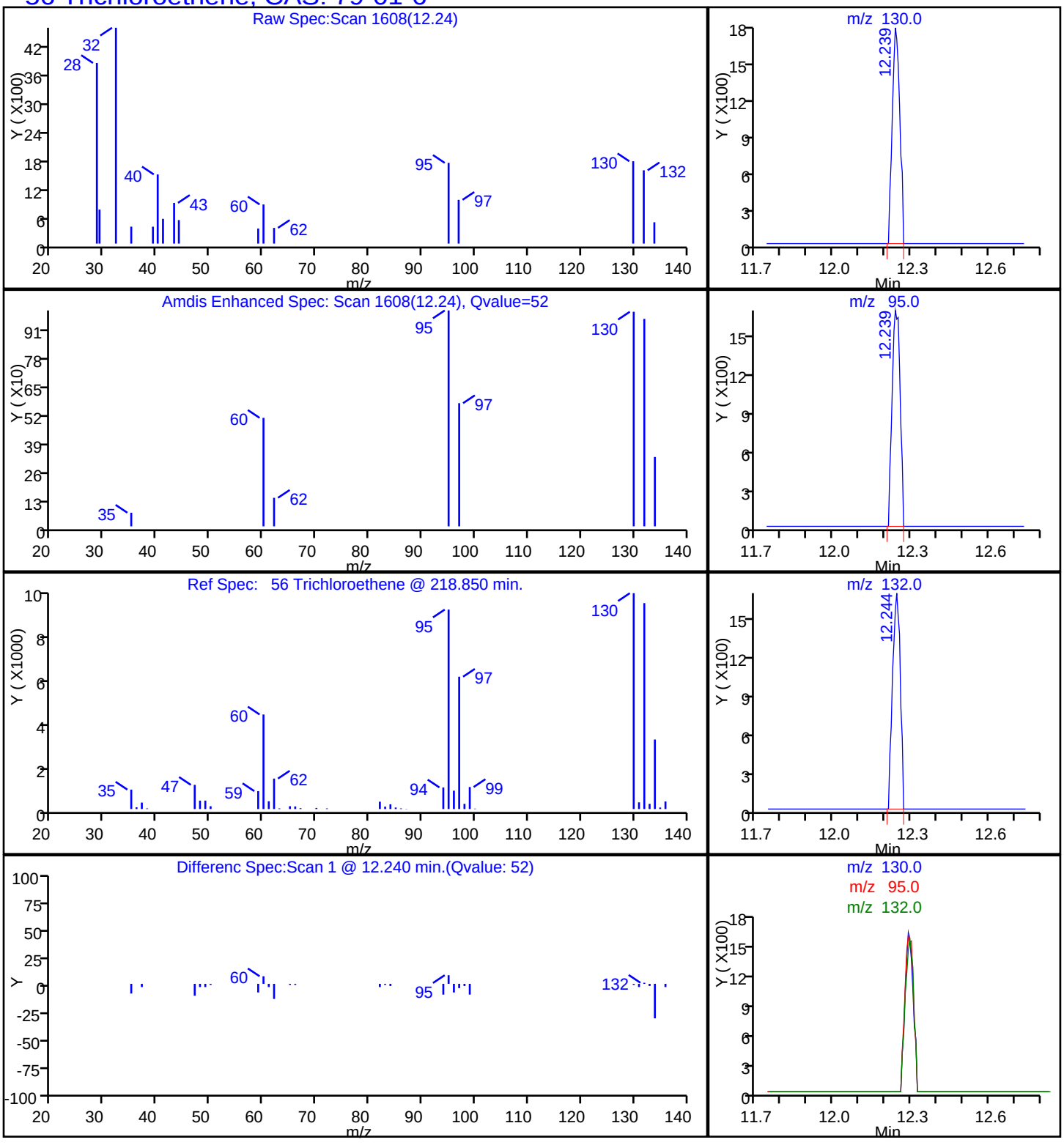
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

56 Trichloroethene, CAS: 79-01-6



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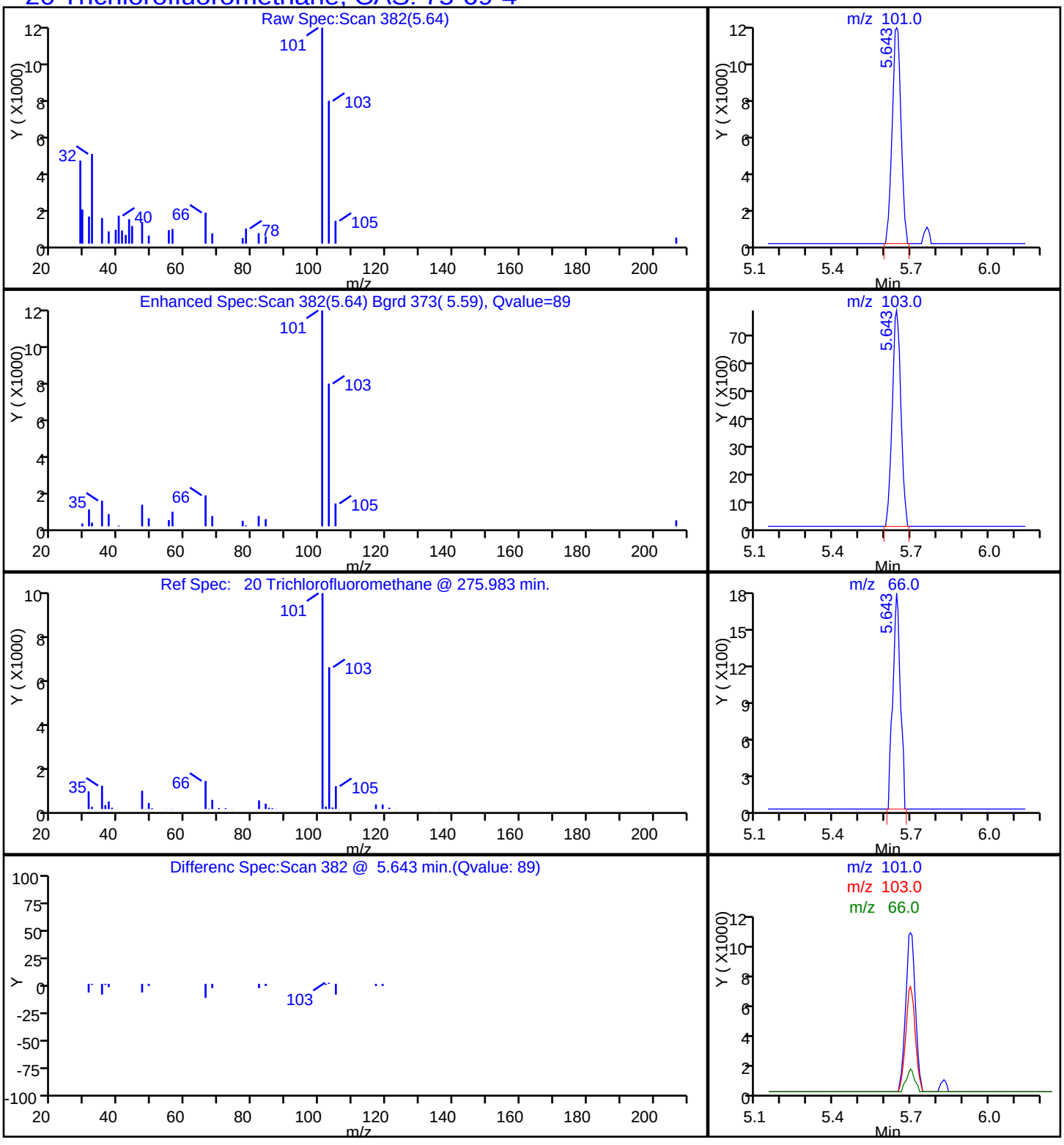
Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



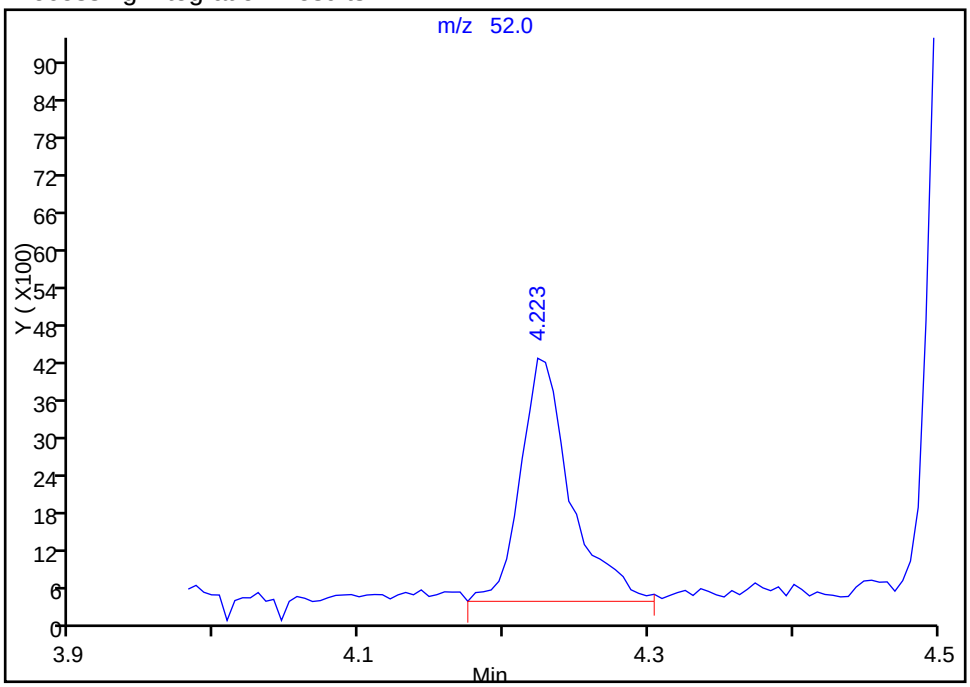
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D				
Injection Date:	19-Mar-2014 09:39:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17		
Client ID:	PCV-IA2-B5				
Operator ID:	403648	ALS Bottle#:	16	Worklist Smp#:	28
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

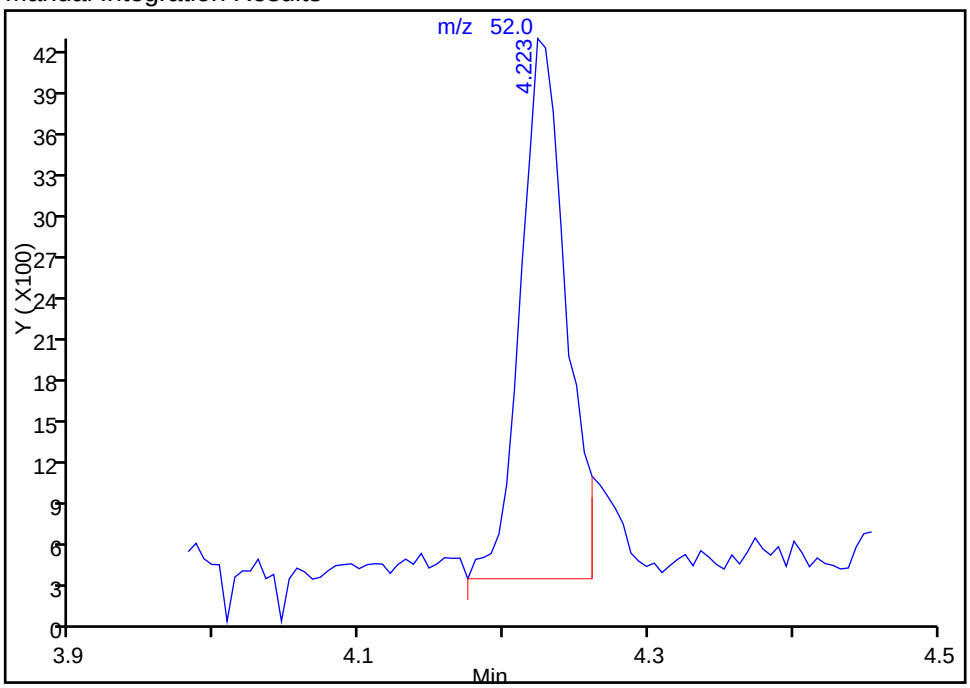
Processing Integration Results

RT: 4.22
Response: 9433
Amount: 0.227217



Manual Integration Results

RT: 4.22
Response: 8562
Amount: 0.206237



Reviewer: barlozhetskayaa, 19-Mar-2014 12:44:54
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 DL Lab Sample ID: 140-1063-17 DL

Matrix: Air Lab File ID: EC24P104.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:56

Sample wt/vol: 11(mL) Date Analyzed: 03/24/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	220		91	25
108-88-3	Toluene	92.14	65		3.6	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IA2-B5 DL | Lab Sample ID: 140-1063-17 DL

Matrix: Air | Lab File ID: EC24P104.D

Analysis Method: TO-15 | Date Collected: 03/12/2014 15:56

Sample wt/vol: 11(mL) | Date Analyzed: 03/24/2014 13:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 990 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	510		220	60
108-88-3	Toluene	92.14	250		14	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D
Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
Client ID: PCV-IA2-B5
Sample Type: Client
Inject. Date: 24-Mar-2014 13:17:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-17
Misc. Info.: E032414,TO155,,140-0000541-007
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:23:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	271813	4.00	
* 2 1,4-Difluorobenzene	114	10.561	10.572	-0.011	94	1322864	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1080071	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	781021	3.30	
7 Propene	41	3.319	3.314	0.005	49	82550	1.21	
9 Chloromethane	52	3.557	3.530	0.027	1	2265	0.0944	
13 Butadiene	54	3.767	3.772	-0.005	28	2684	0.0419	
17 Ethanol	31	4.295	4.312	-0.017	97	95965	3.53	
19 2-Methylbutane	43	4.527	4.533	-0.006	81	7608	0.0799	
23 Acetone	58	4.862	4.878	-0.016	99	196304	4.77	
24 Isopropyl alcohol	45	4.964	4.969	-0.005	22	10538	0.0994	
31 Methylene Chloride	84	5.778	5.789	-0.011	78	33093	0.4261	
64 trans-1,3-Dichloropropene	75	13.398	13.284	0.114	4	3724	0.0255	
65 Toluene	91	13.392	13.398	-0.006	93	413904	1.43	
76 Ethylbenzene	91	15.878	15.722	0.156	90	29961	0.0808	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	29961	0.1027	
82 o-Xylene	91	16.401	16.407	-0.006	69	8528	0.0270	

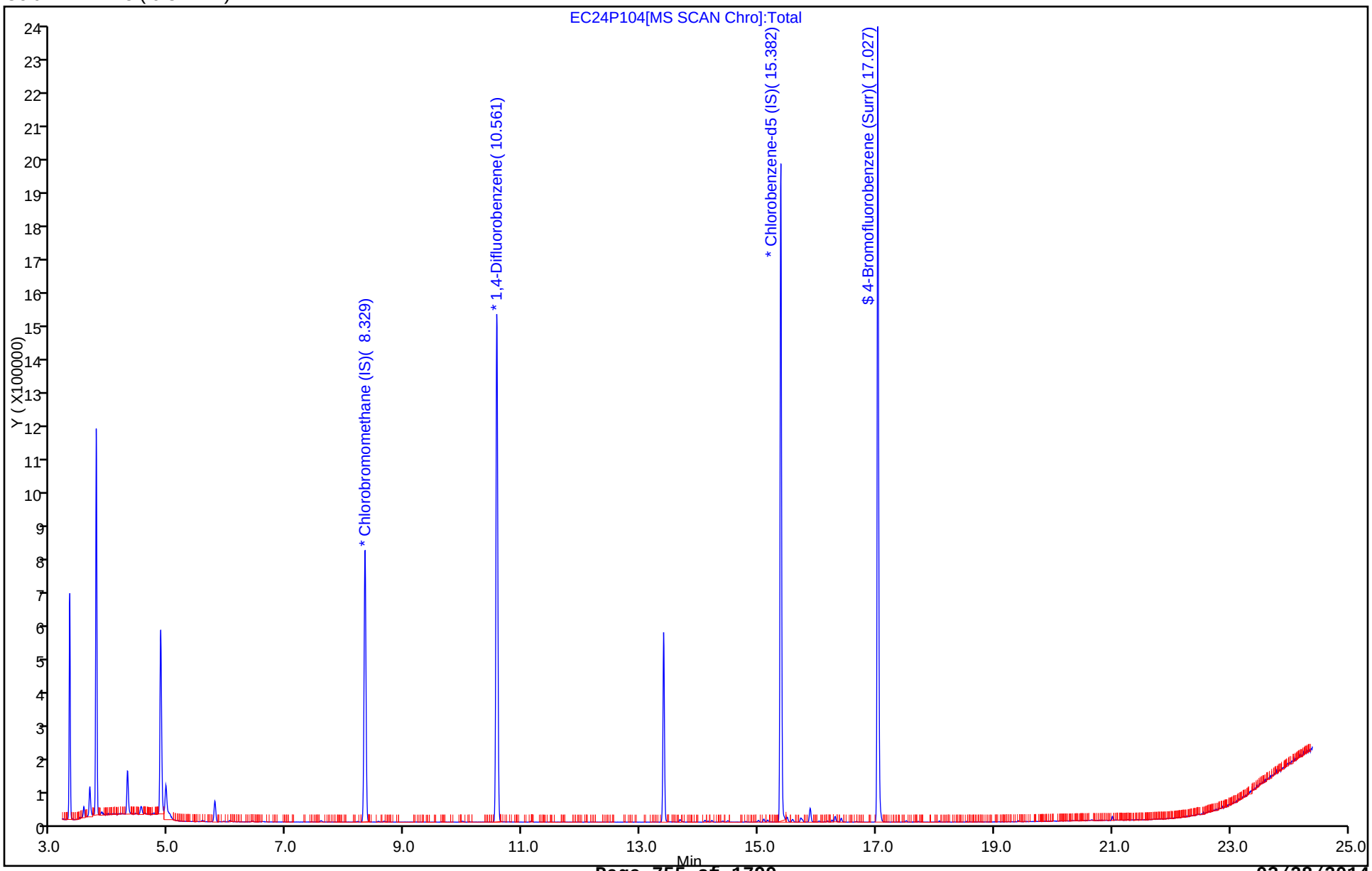
Report Date: 25-Mar-2014 07:23:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D

Injection Date:	24-Mar-2014 13:17:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17	Worklist Smp#:	7
Client ID:	PCV-IA2-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

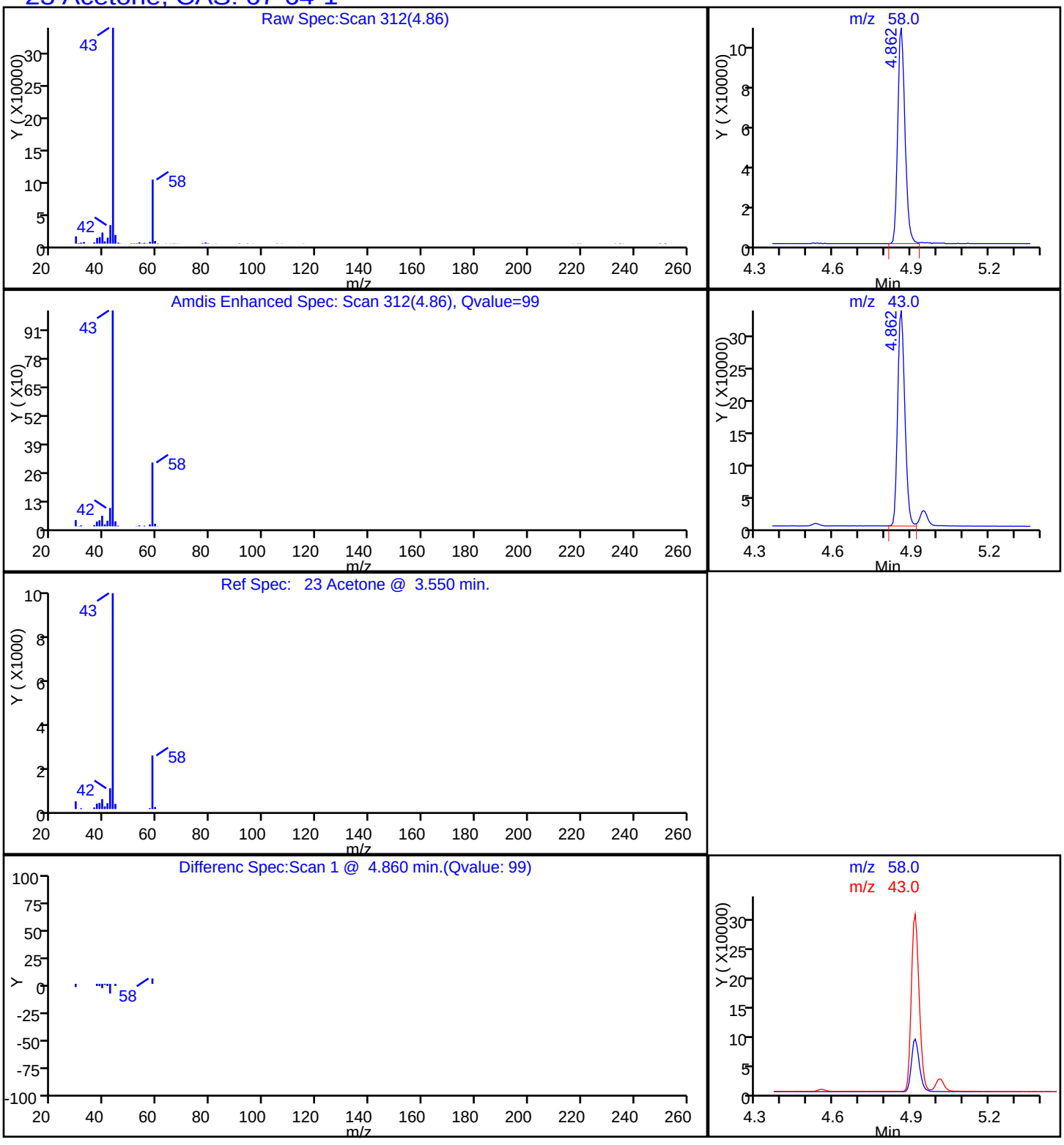


Report Date: 25-Mar-2014 07:23:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D		
Injection Date:	24-Mar-2014 13:17:30	Instrument ID:	ME
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17
Client ID:	PCV-IA2-B5		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



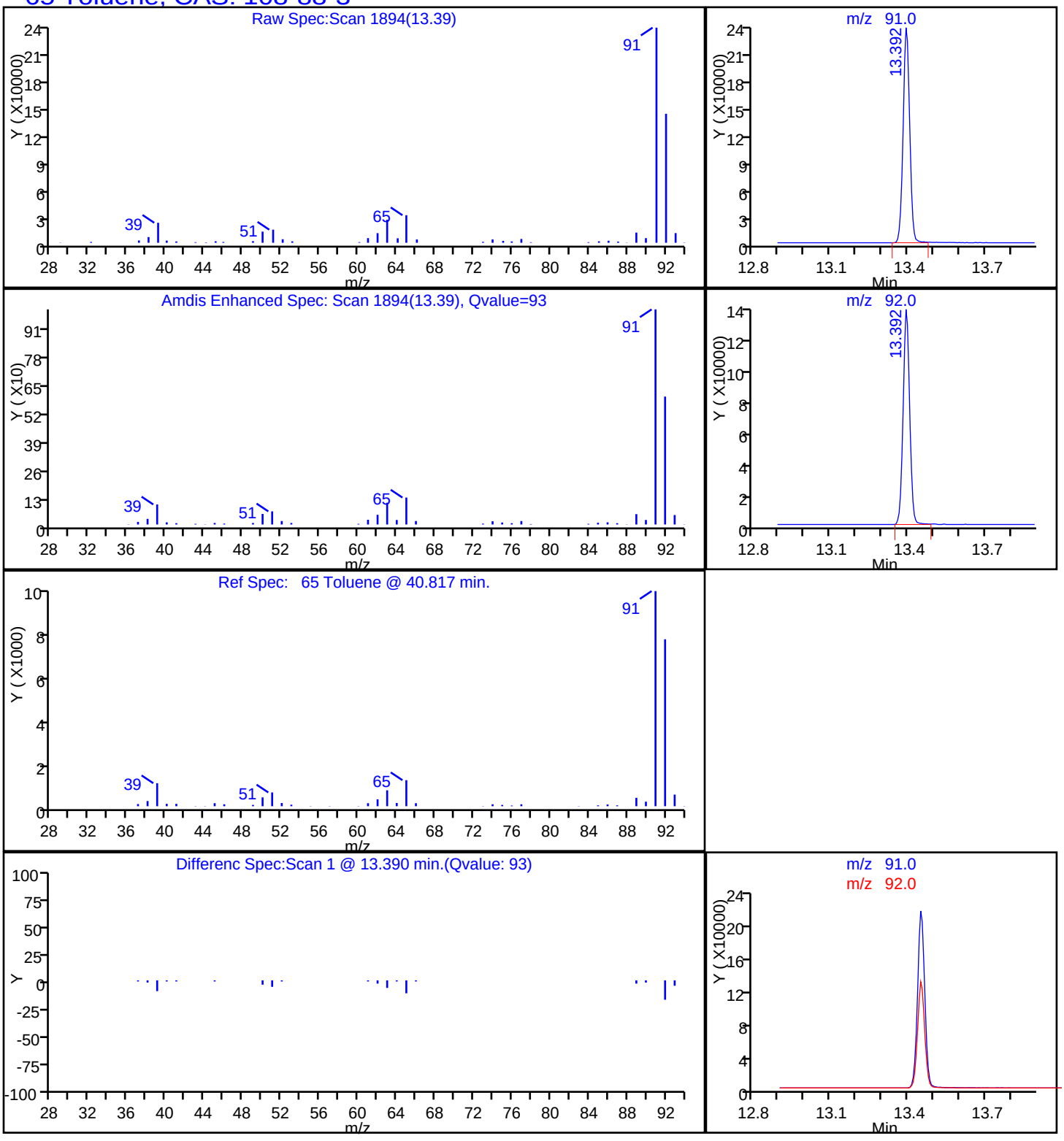
Report Date: 25-Mar-2014 07:23:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D

Injection Date:	24-Mar-2014 13:17:30	Instrument ID:	ME
Lims ID:	140-1063-A-17	Lab Sample ID:	140-1063-17
Client ID:	PCV-IA2-B5		
Operator ID:	7126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

65 Toluene, CAS: 108-88-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.48		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.13	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.073	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.095	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	8.6		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	3.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.24		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.22	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3		0.50	0.045
67-64-1	Acetone	58.08	9.8	*	5.0	1.4
71-43-2	Benzene	78.11	0.37		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.054	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.064	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	*Ethanol*	*46.07*	*720*	*E*	*2.0*	*2.0*
100-41-4	Ethylbenzene	106.17	1.3		0.20	0.068
142-82-5	Heptane	100.21	1.2		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.30	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	*Methylene Chloride*	*84.93*	*46*	*E*	*0.50*	*0.13*
179601-23-1	m-Xylene & p-Xylene	106.17	5.1		0.20	0.12
91-20-3	Naphthalene	128.17	0.10	J	0.50	0.090
95-47-6	o-Xylene	106.17	1.6		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	9.5		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	17		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.23		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.3		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.62	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.16	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.57	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.67	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	25		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	9.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.85		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.1	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	13		2.0	0.18
67-64-1	Acetone	58.08	23	*	12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.17	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.42	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	*Ethanol*	*46.07*	*1400*	*E*	*3.8*	*3.8*
100-41-4	Ethylbenzene	106.17	5.5		0.87	0.30
142-82-5	Heptane	100.21	5.0		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.0	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	21		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	*Methylene Chloride*	*84.93*	*160*	*E*	*1.7*	*0.45*
179601-23-1	m-Xylene & p-Xylene	106.17	22		0.87	0.52
91-20-3	Naphthalene	128.17	0.54	J	2.6	0.47
95-47-6	o-Xylene	106.17	6.9		0.87	0.26
115-07-1	Propene	42.08	1.9	cn	0.86	0.13
100-42-5	Styrene	104.15	40		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	65		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	1.2		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18

Matrix: Air Lab File ID: JC21P101.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D
Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18
Client ID: PCV-IAPC-B5
Sample Type: Client
Inject. Date: 21-Mar-2014 15:32:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-18
Misc. Info.: J032114,TO15,,140-0000540-006
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 08:38:53 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:38:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.379	-0.002	90	357606	4.00	
* 2 1,4-Difluorobenzene	114	11.529	11.530	-0.001	94	1688006	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.193	16.194	-0.001	87	1376386	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.812	17.814	-0.002	91	938447	3.85	
7 Propene	41	3.976	3.972	0.004	95	48611	0.4433	
8 Dichlorodifluoromethane	85	4.024	4.031	-0.007	100	63095	0.1781	
9 Chloromethane	52	4.229	4.231	-0.002	97	8950	0.2224	
14 Butadiene	54	4.514	4.516	-0.002	25	2683	0.0291	
17 Ethanol	31	5.149	5.113	0.036	89	8254224	287.5	E
19 2-Methylbutane	43	5.401	5.409	-0.008	93	193450	1.27	
20 Trichlorofluoromethane	101	5.638	5.640	-0.002	90	25899	0.0832	
23 Acetone	58	5.762	5.769	-0.007	98	199863	3.93	
24 Isopropyl alcohol	45	5.886	5.844	0.042	73	457674	3.41	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.576	-0.002	50	5731	0.0266	
31 Methylene Chloride	84	6.746	6.753	-0.007	93	1776571	18.6	E
33 Carbon disulfide	76	6.929	6.931	-0.002	81	7222	0.0215	
35 2-Methylpentane	43	7.618	7.620	-0.002	90	26674	0.0967	
39 2-Butanone (MEK)	72	8.581	8.583	-0.001	100	115866	3.42	
40 Hexane	56	8.629	8.631	-0.002	77	11444	0.1190	
43 Chloroform	83	9.382	9.389	-0.007	3	5370	0.0258	
48 Benzene	78	11.012	11.014	-0.002	94	43037	0.1486	
49 Cyclohexane	69	11.018	11.025	-0.007	36	2758	0.0483	
50 Carbon tetrachloride	117	11.044	11.046	-0.002	85	6782	0.0283	
53 Isooctane	57	11.755	11.756	-0.001	86	28229	0.0571	
54 n-Heptane	71	12.115	12.117	-0.002	91	50113	0.4893	
56 Trichloroethene	130	12.233	12.235	-0.002	85	12761	0.0908	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.365	0.003	98	230825	1.30	
65 Toluene	91	14.245	14.247	-0.002	94	1754903	6.87	
73 Tetrachloroethene	129	15.375	15.377	-0.002	80	7144	0.0601	
76 Ethylbenzene	91	16.521	16.523	-0.002	99	144093	0.5109	
78 m-Xylene & p-Xylene	91	16.677	16.684	-0.007	99	461404	2.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
80 Styrene	104	17.145	17.141	0.004	99	592671	3.79	
82 o-Xylene	91	17.204	17.206	-0.002	88	147393	0.6389	
88 4-Ethyltoluene	105	18.441	18.443	-0.002	83	26994	0.0881	
89 1,3,5-Trimethylbenzene	120	18.511	18.513	-0.002	86	7808	0.0507	
93 1,2,4-Trimethylbenzene	105	18.936	18.938	-0.002	96	50895	0.1904	
97 1,4-Dichlorobenzene	146	19.291	19.288	0.003	65	6198	0.0379	
112 Naphthalene	128	21.518	21.515	0.003	83	8877	0.0410	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

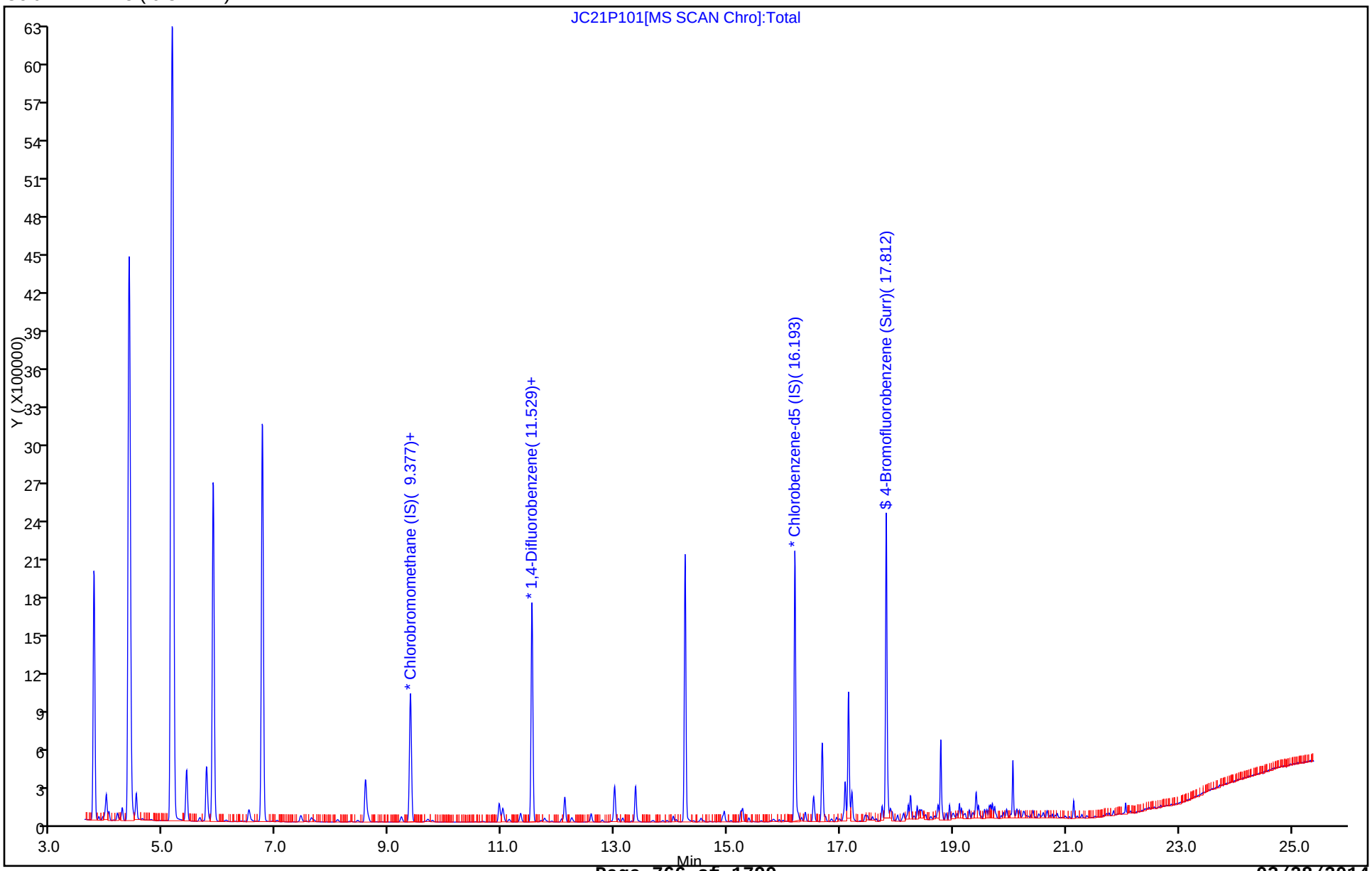
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18	Worklist Smp#:	6
Client ID:	PCV-IAPC-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



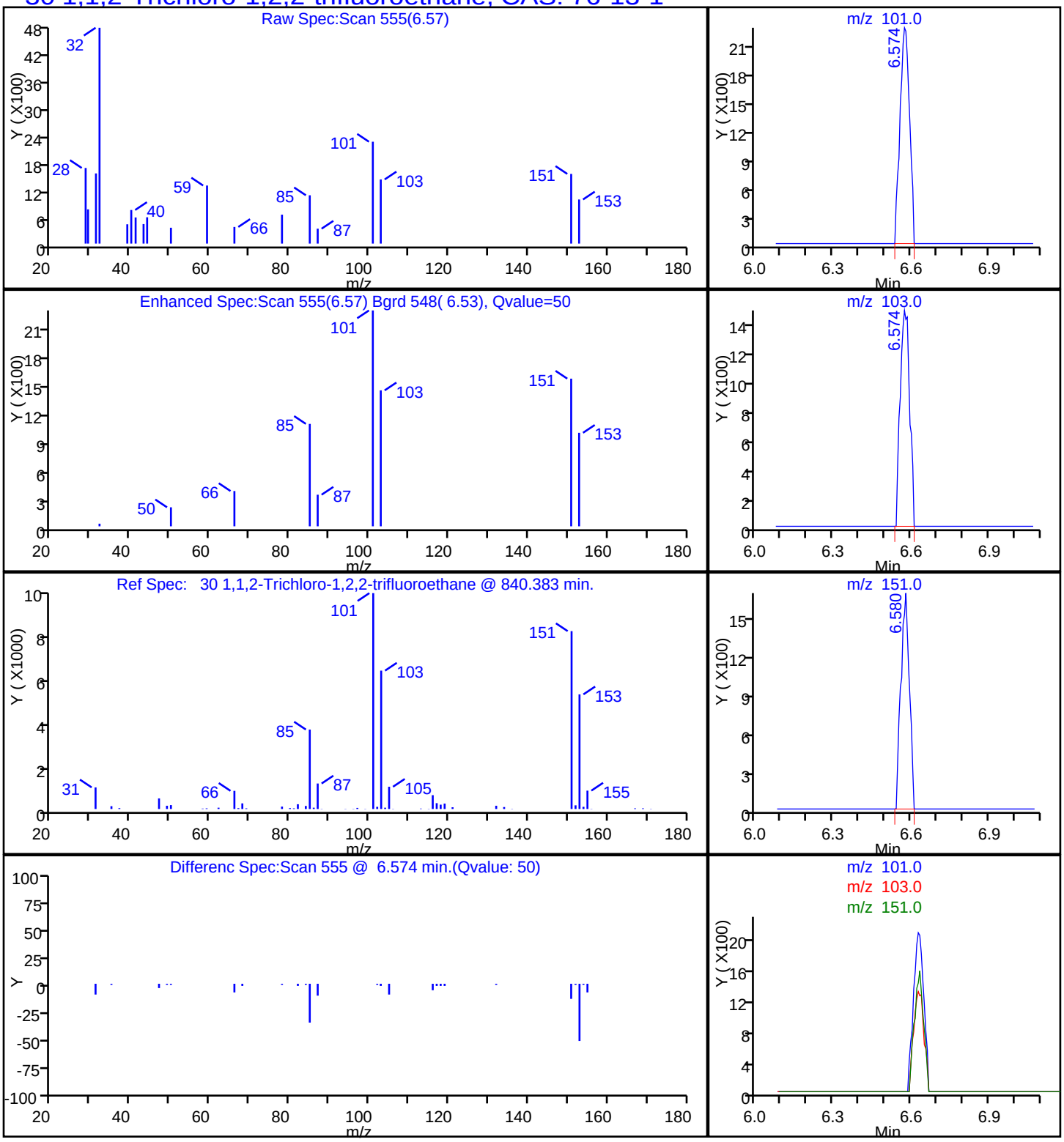
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

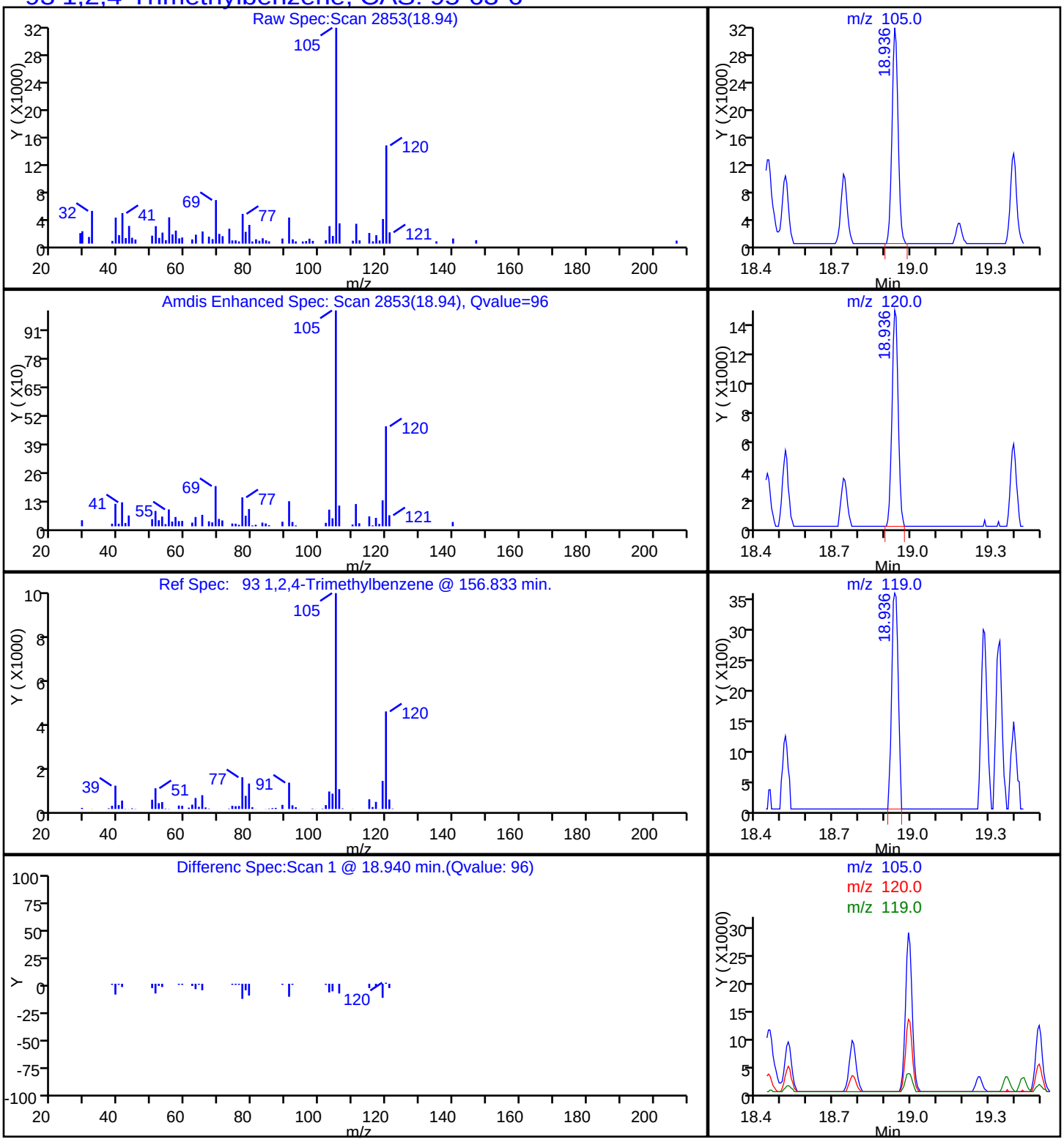
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

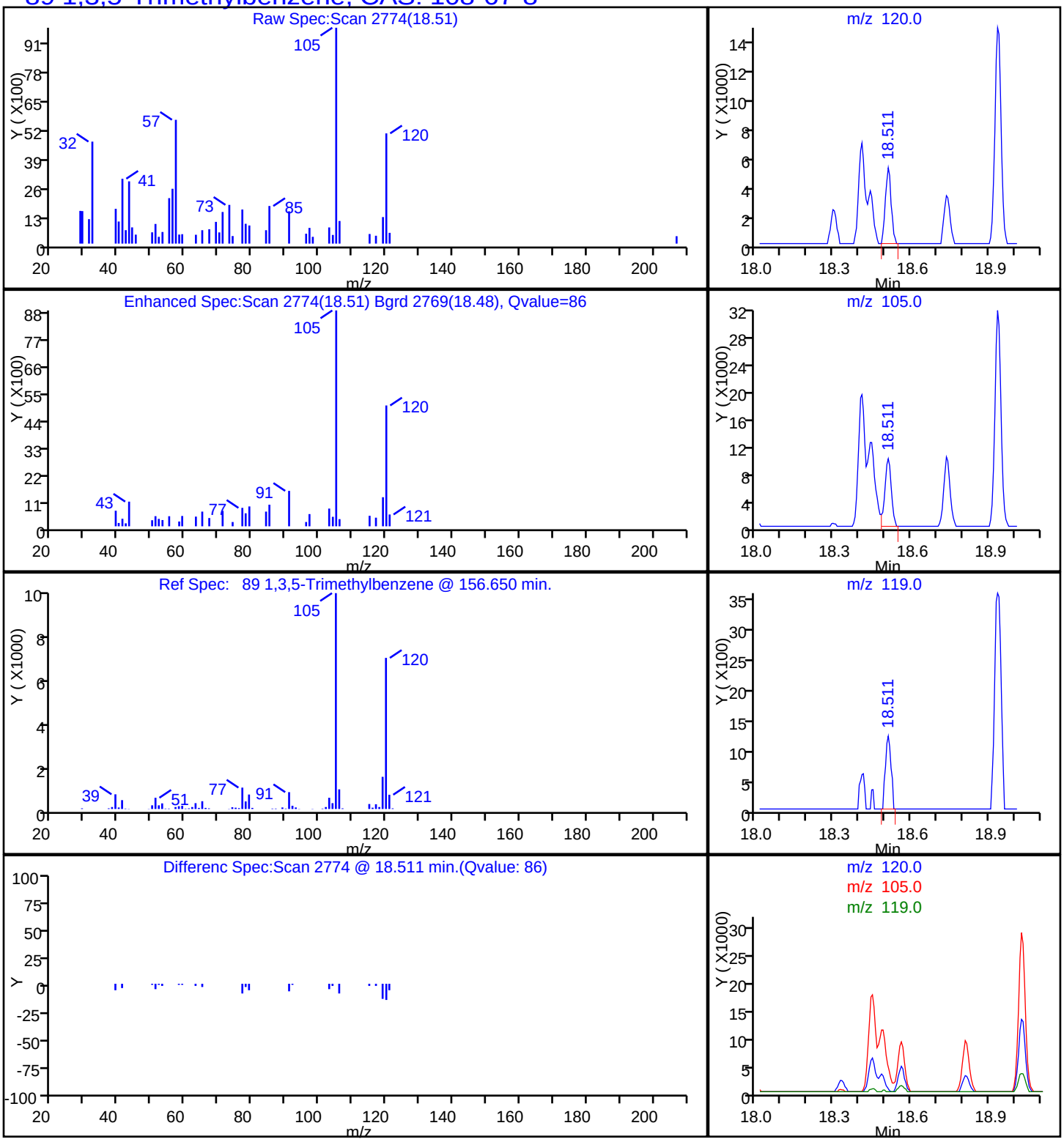
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

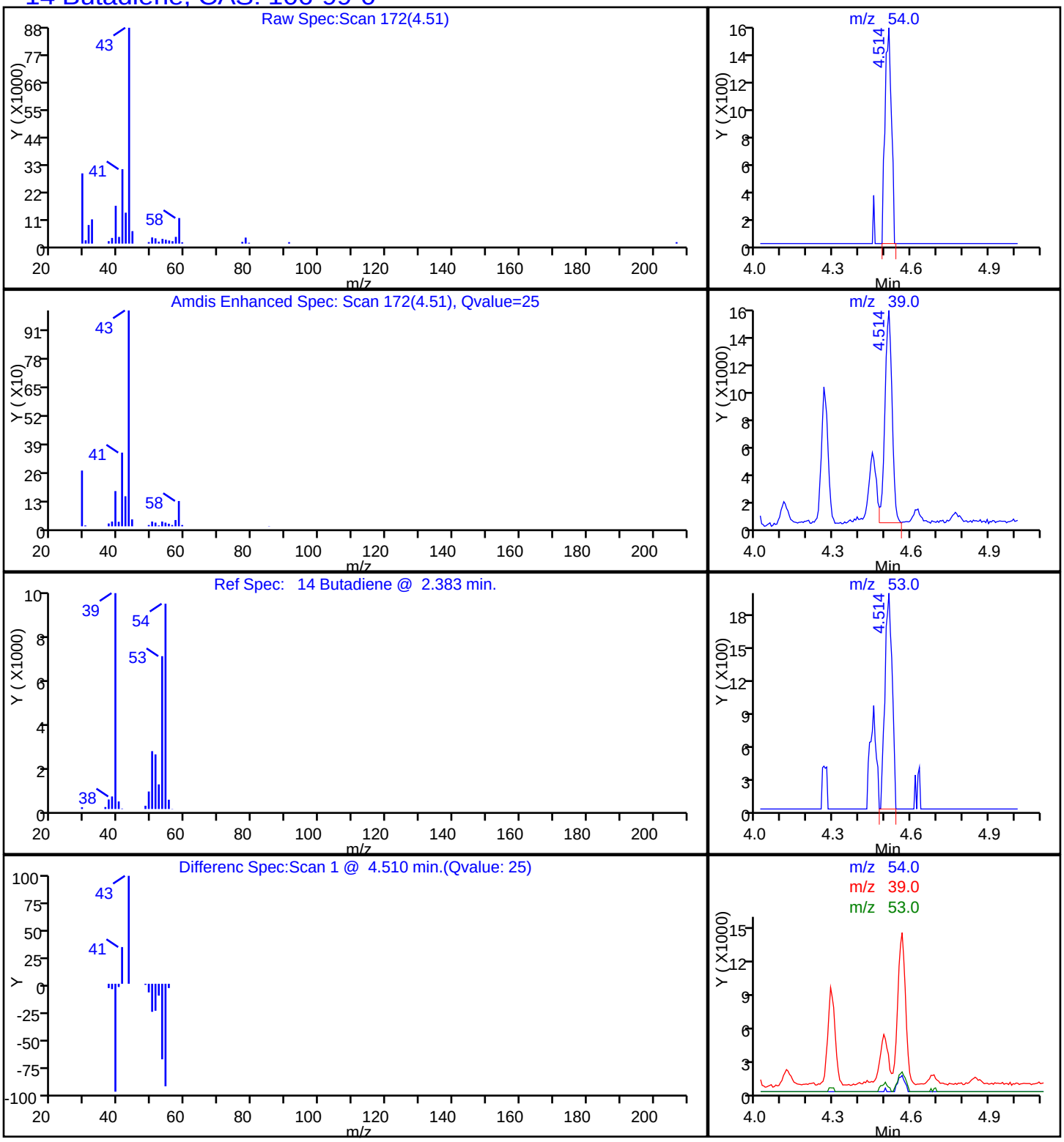
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

14 Butadiene, CAS: 106-99-0



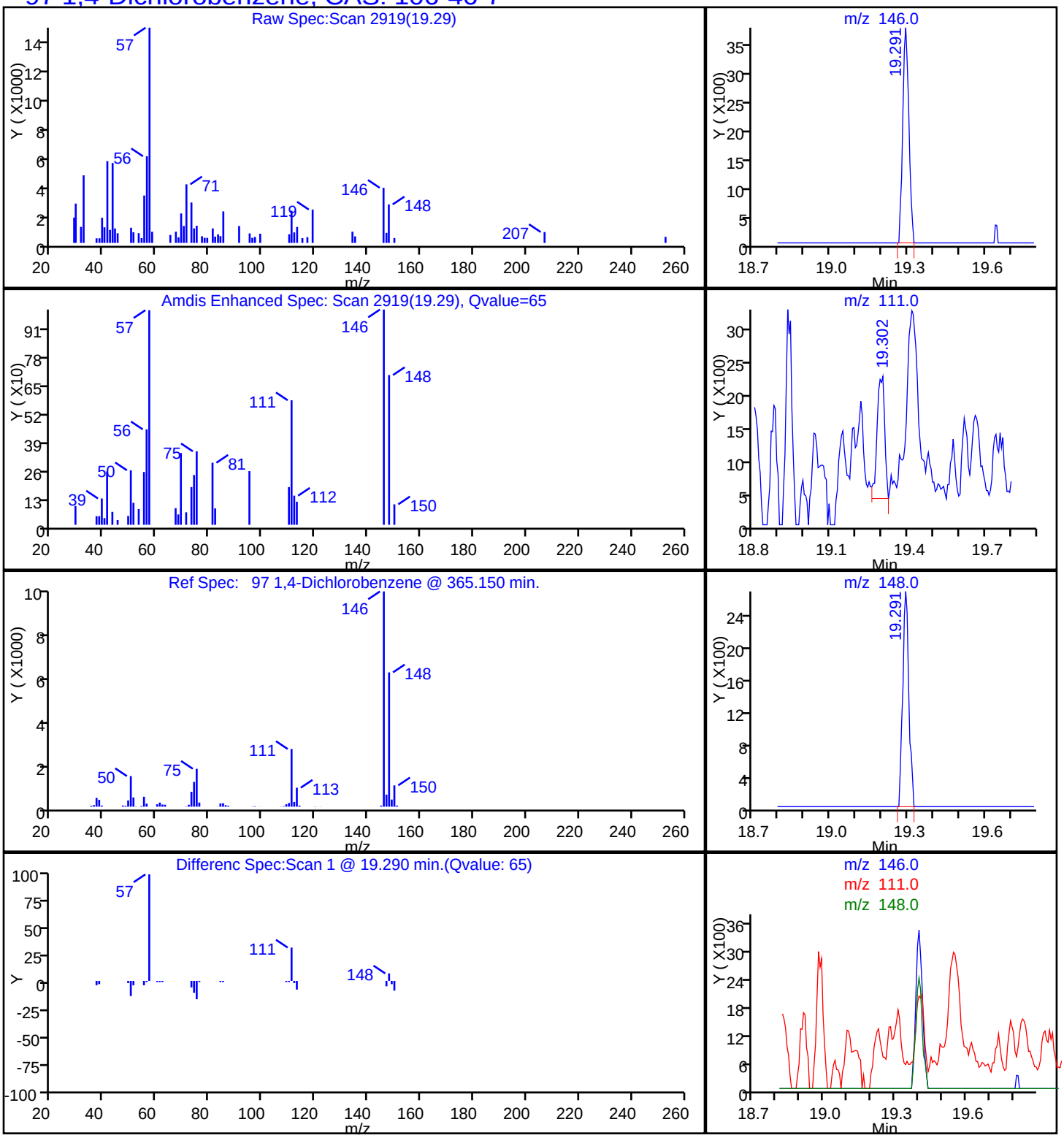
Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

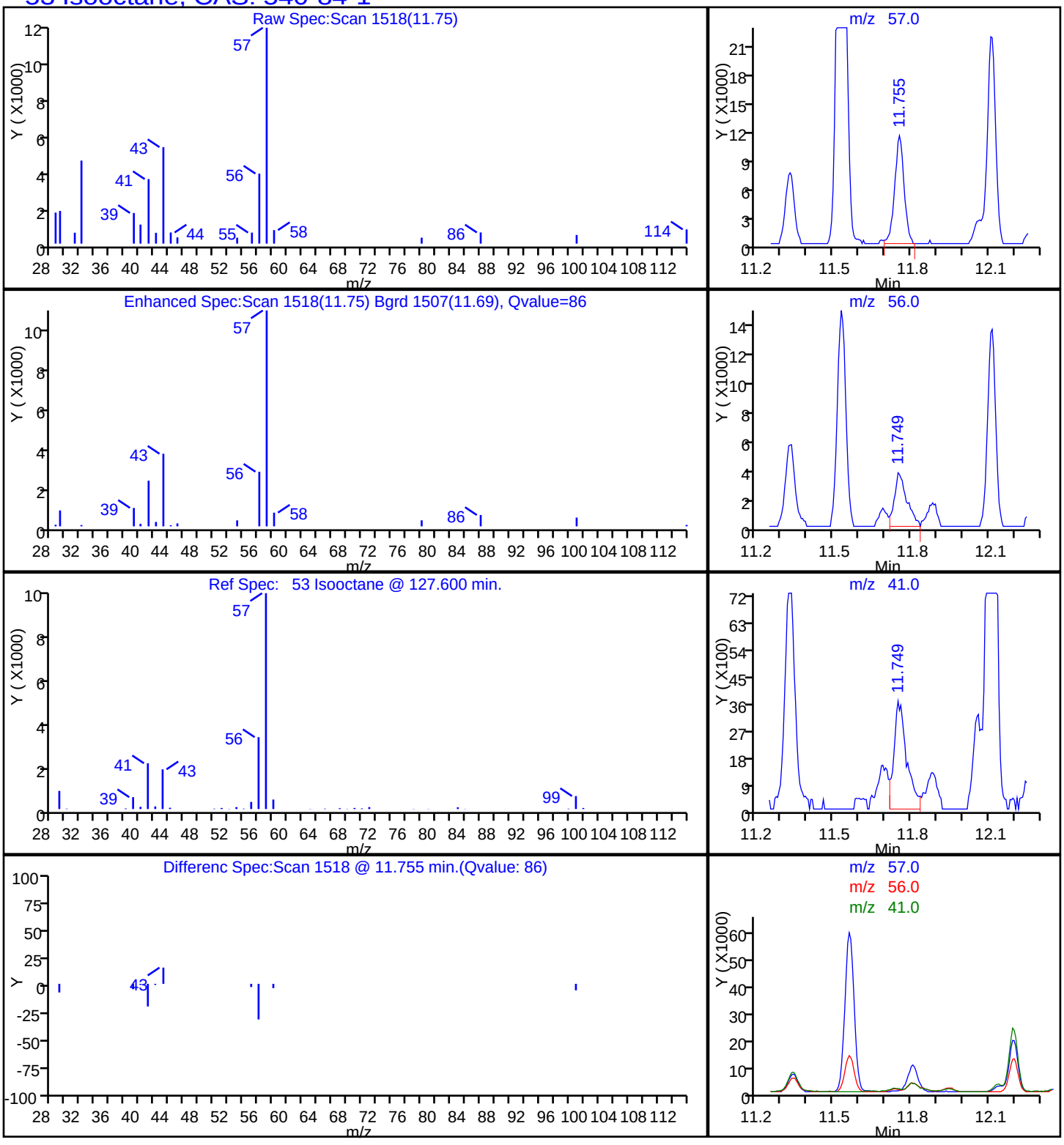
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

53 Isooctane, CAS: 540-84-1



Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

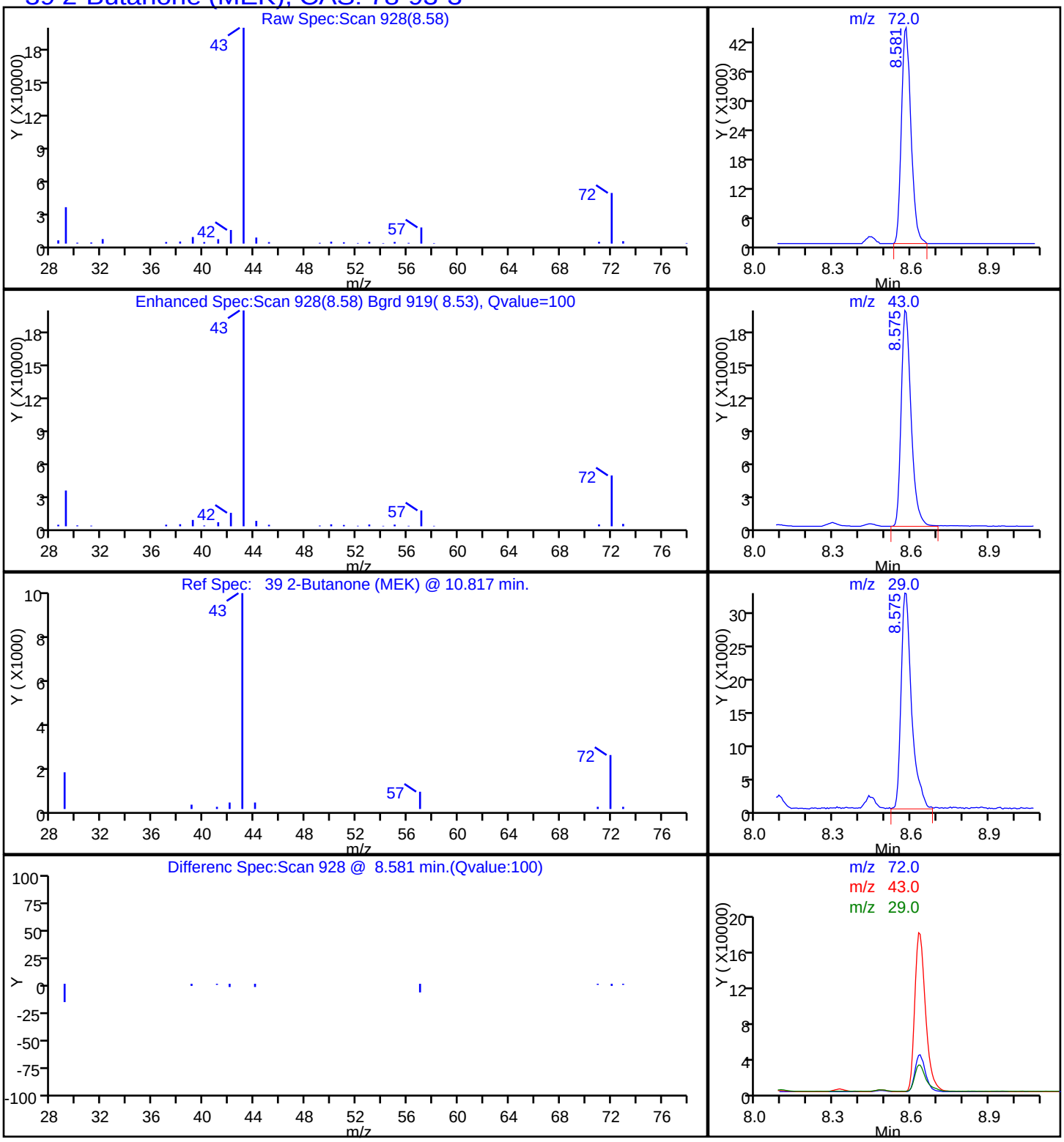
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

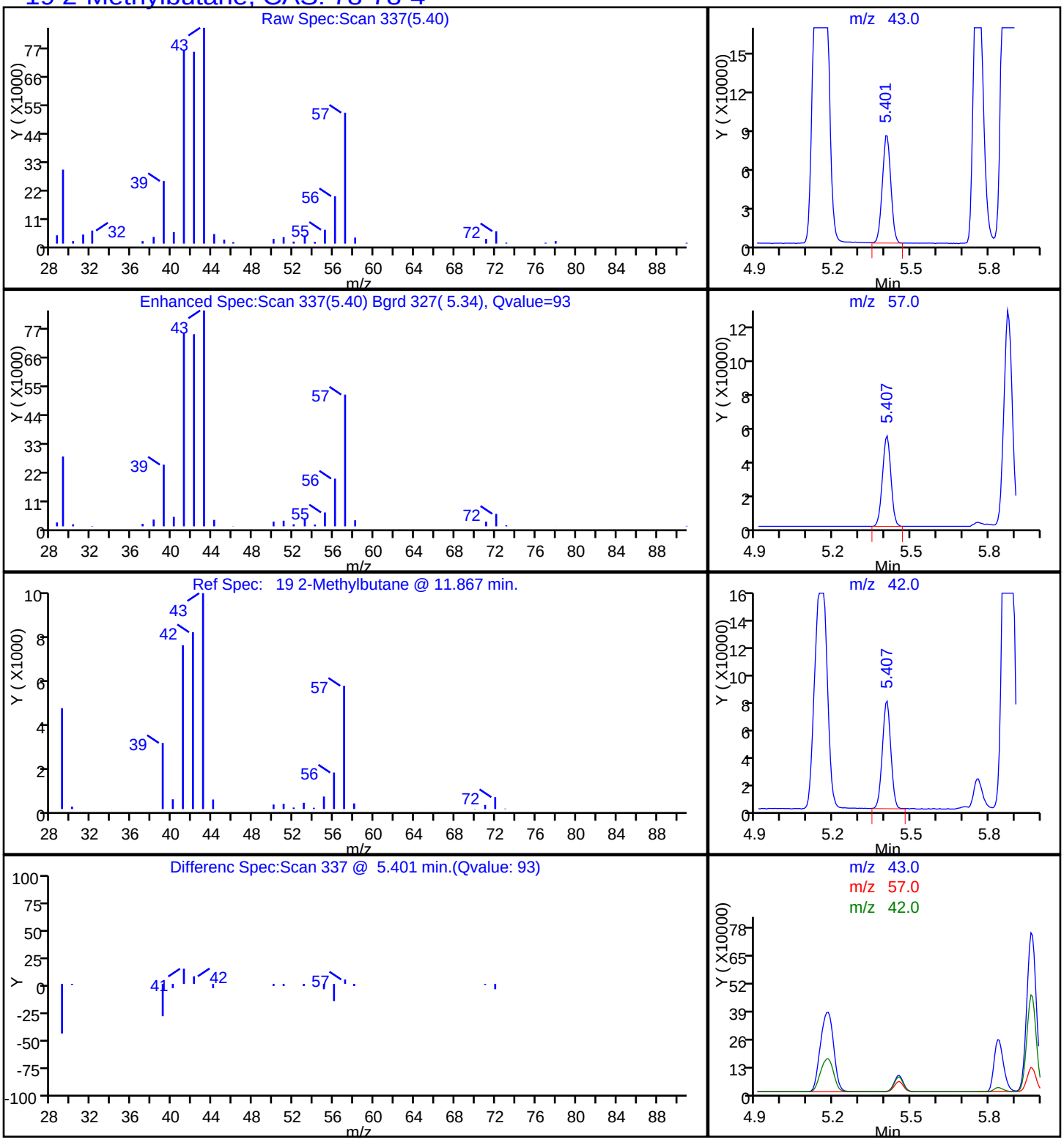
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



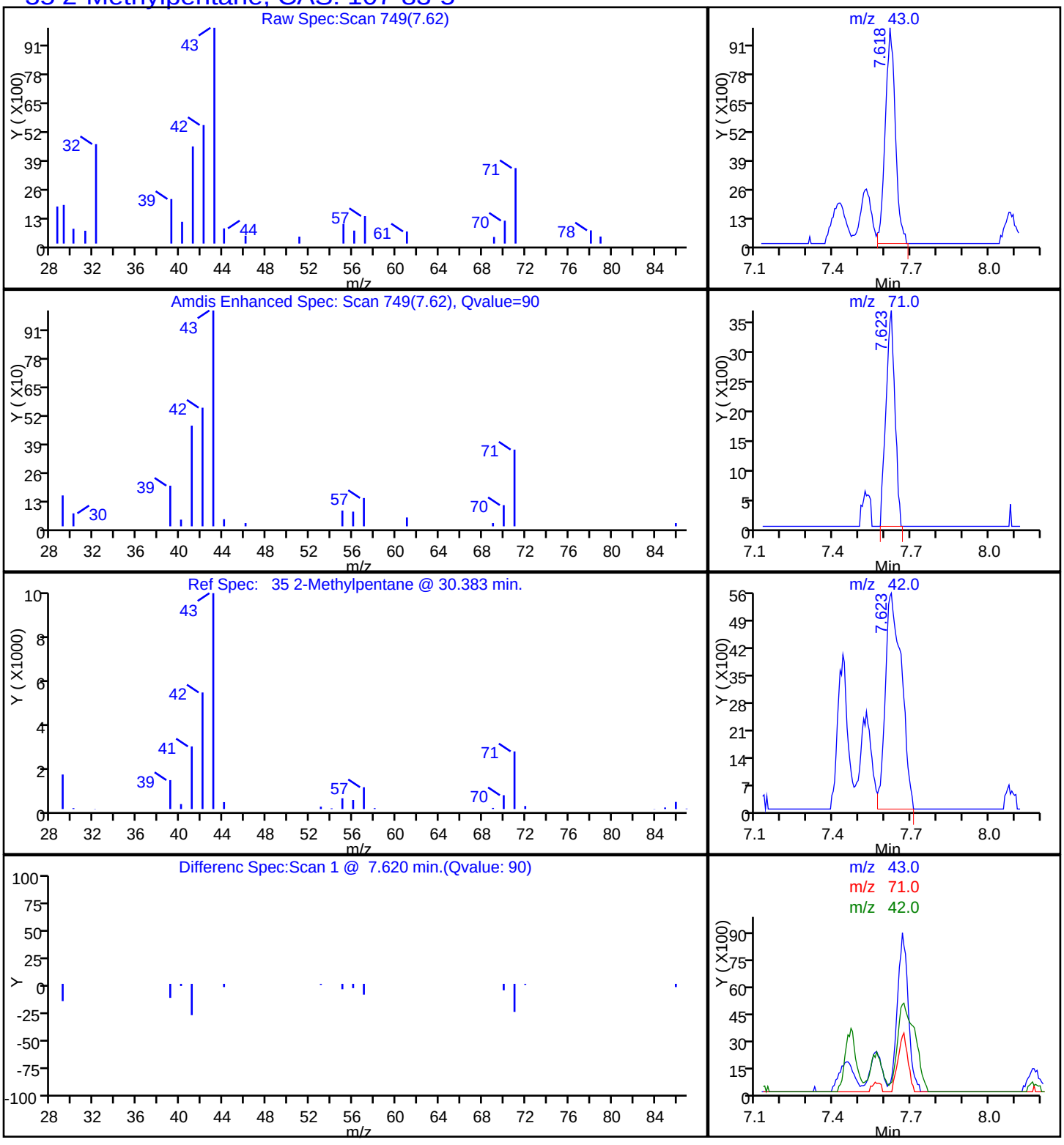
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

35 2-Methylpentane, CAS: 107-83-5



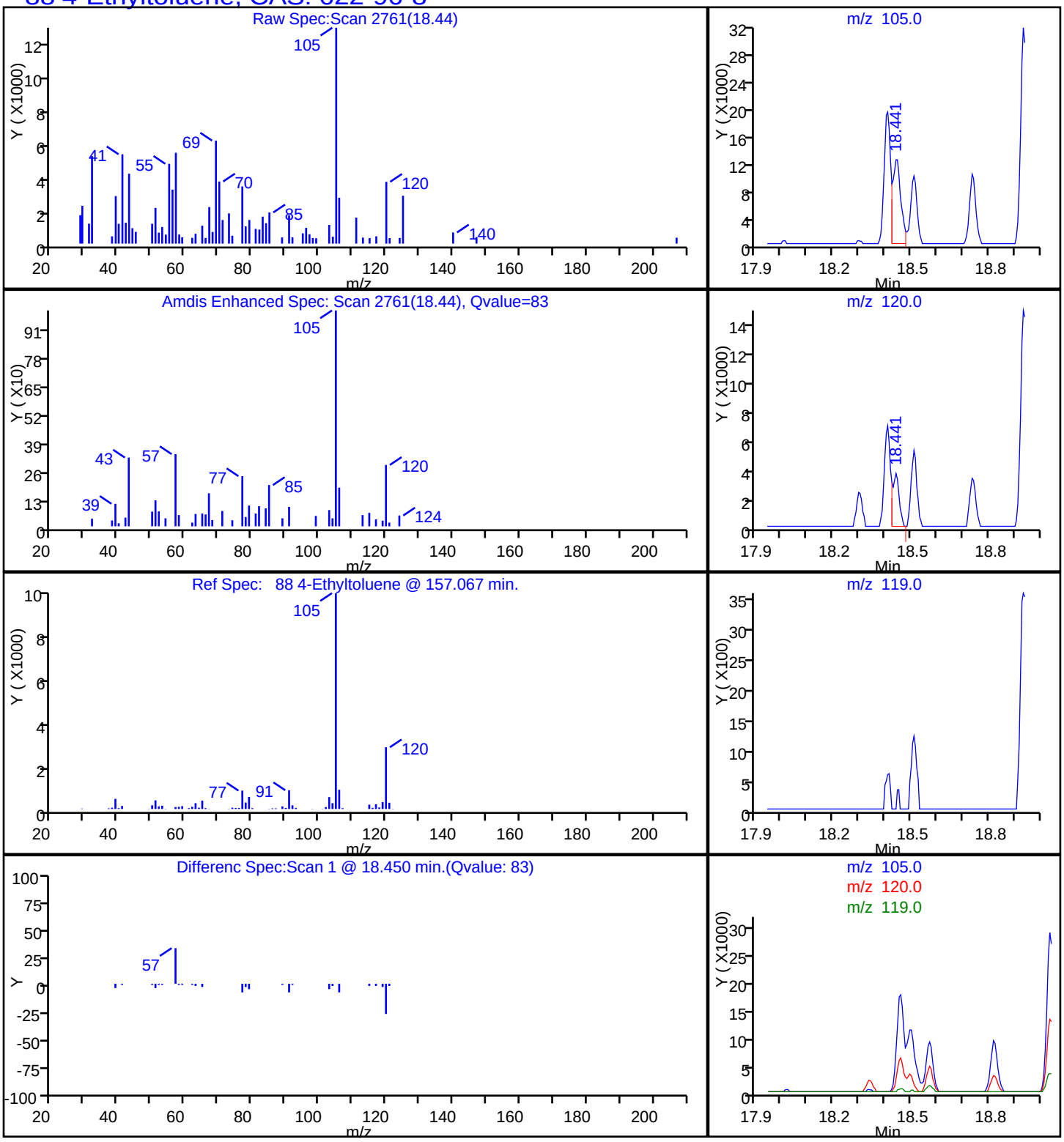
Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

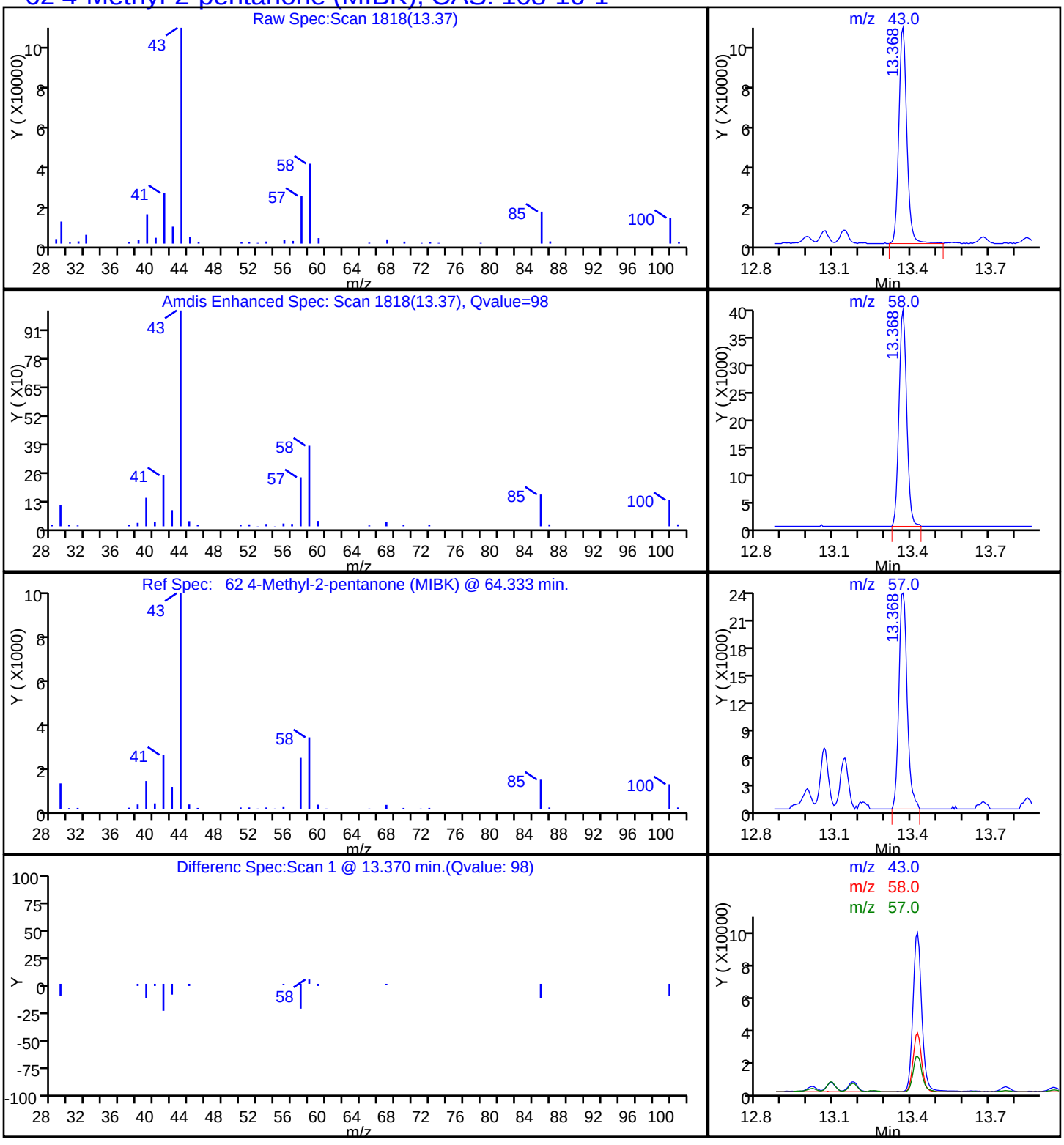


Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D				
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

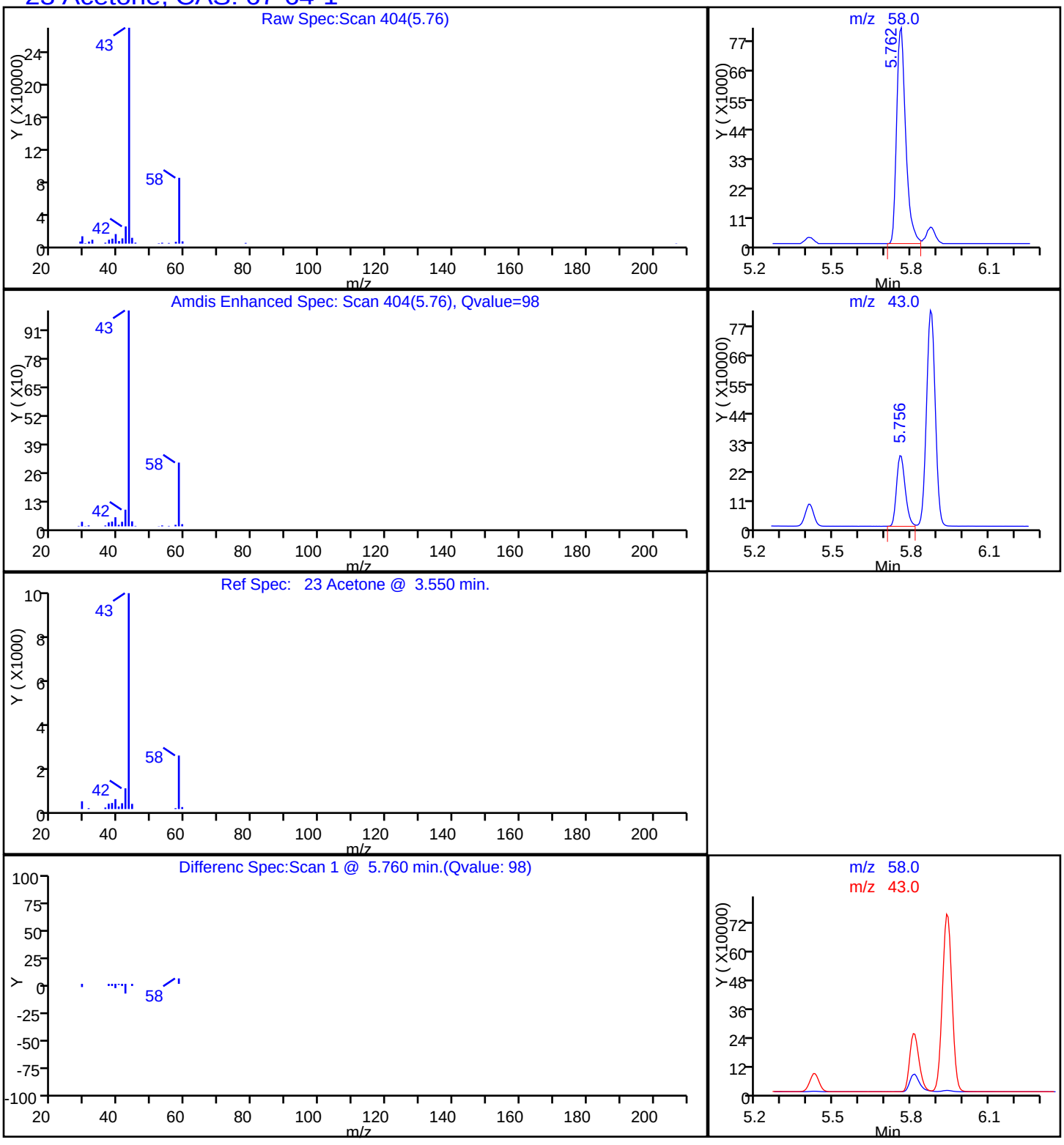


Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D		
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



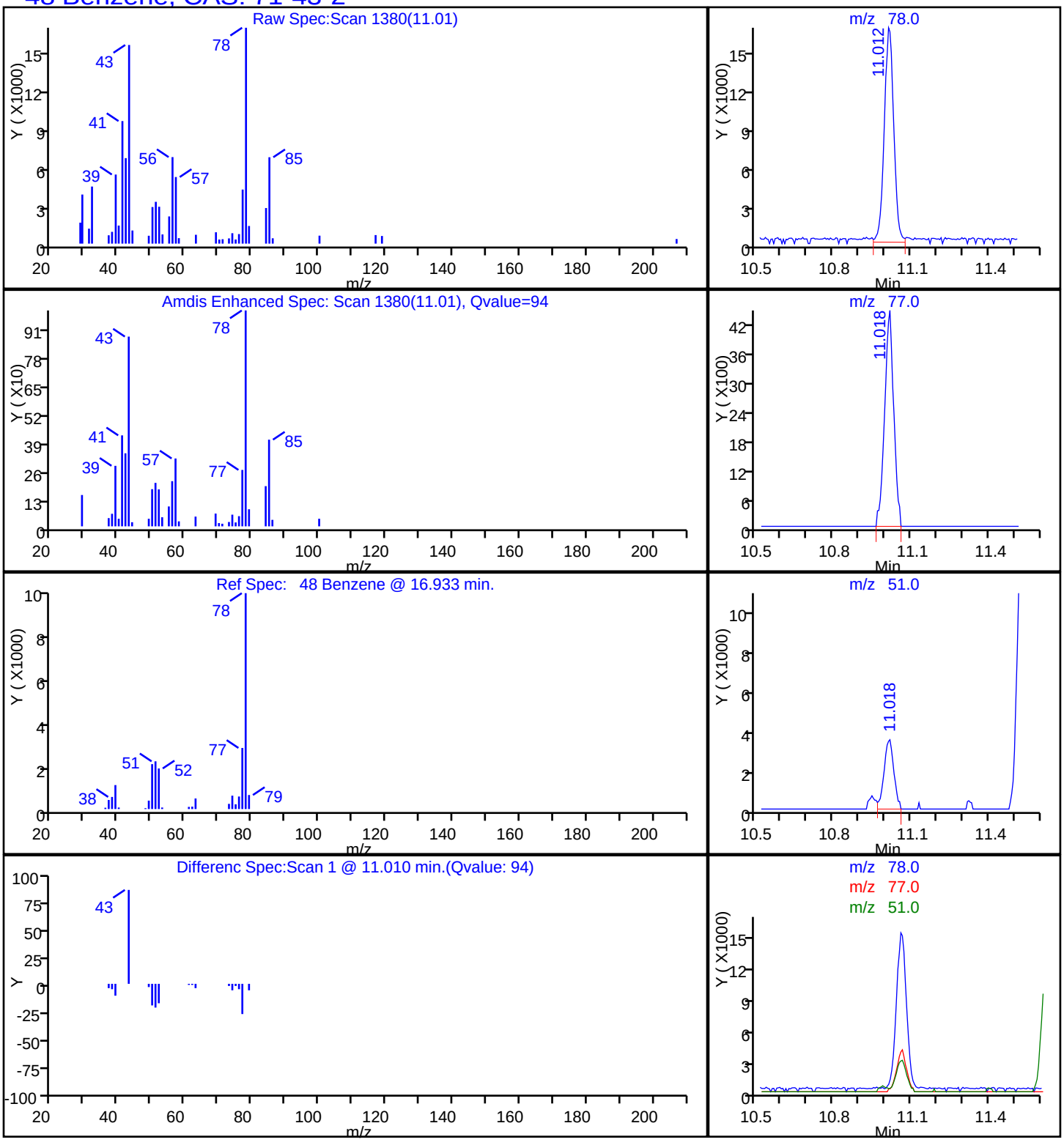
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



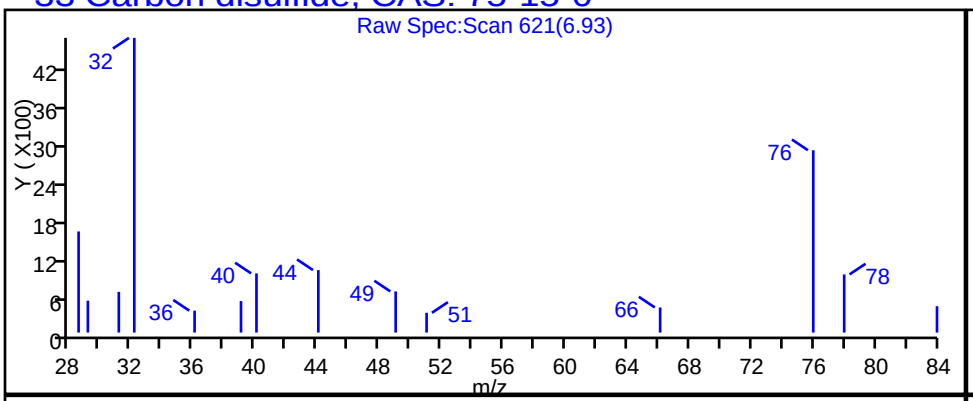
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

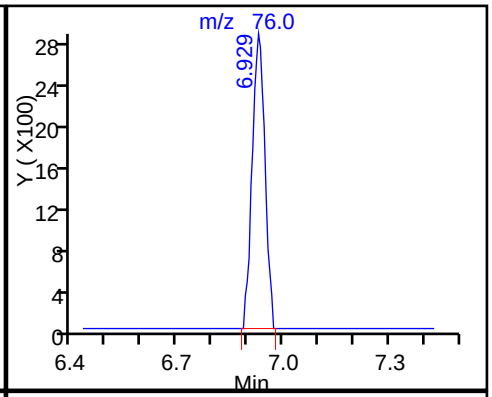
TestAmerica Knoxville

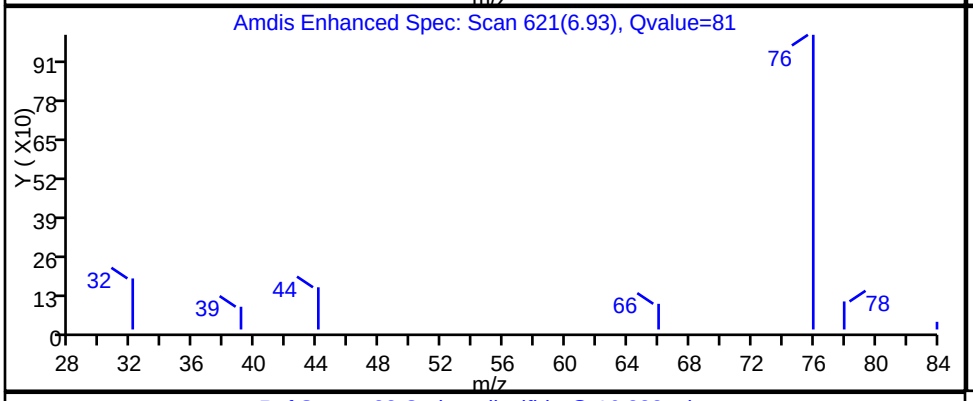
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

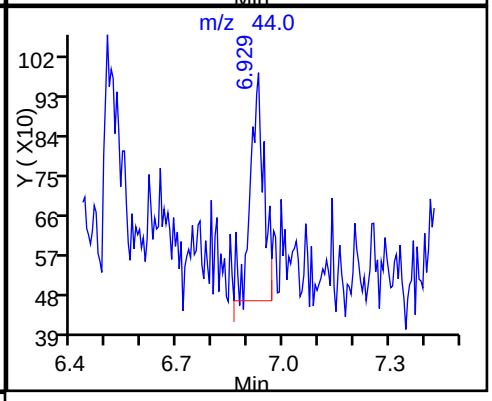
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

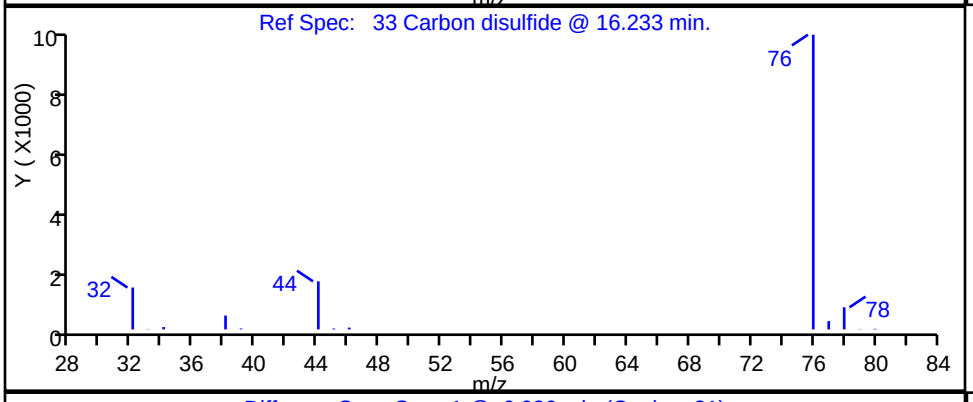
33 Carbon disulfide, CAS: 75-15-0

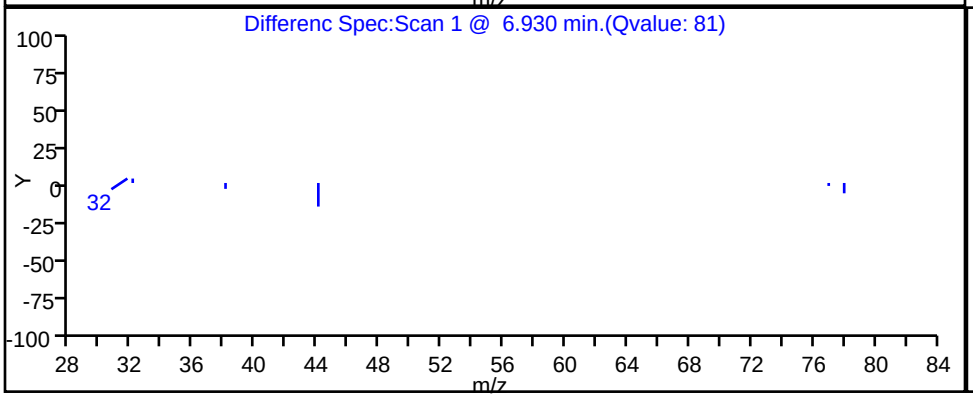


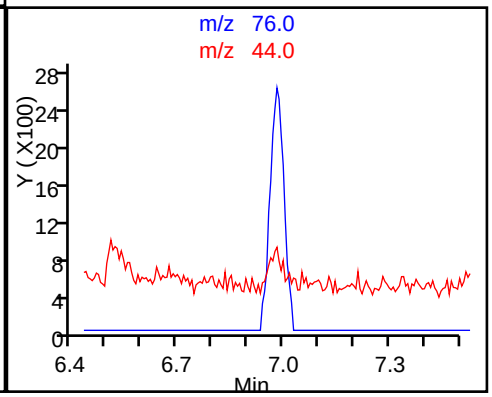












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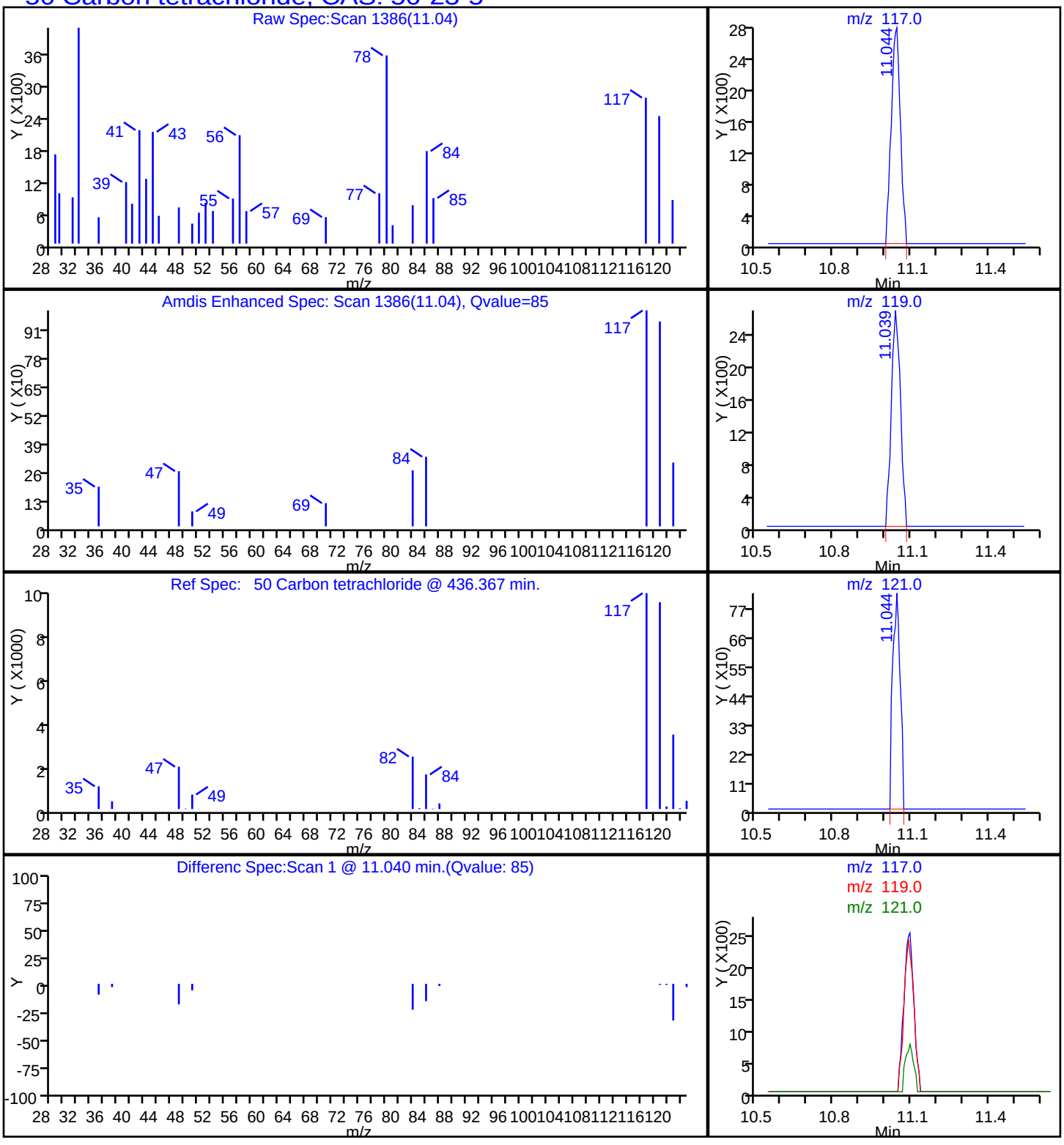
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



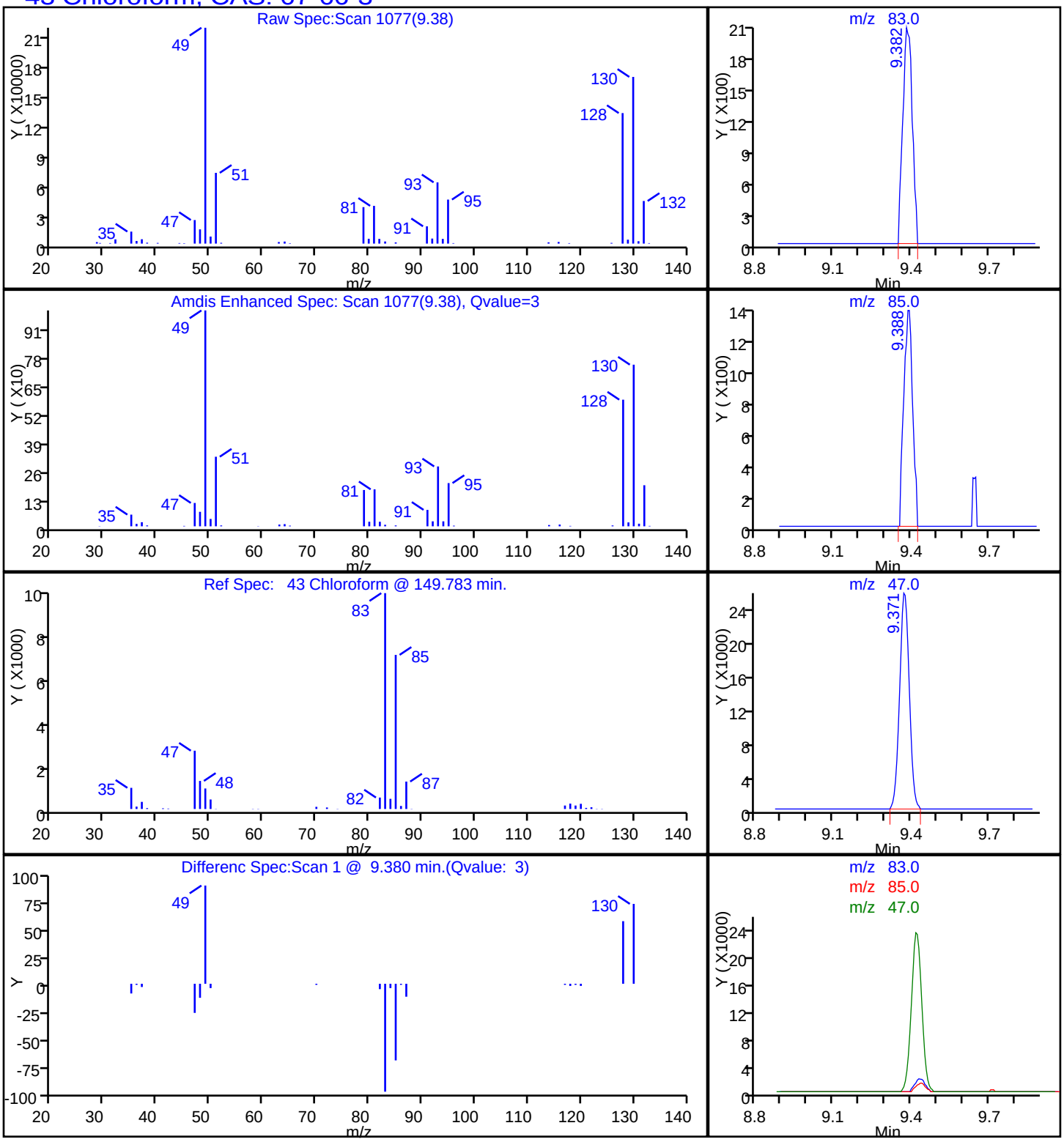
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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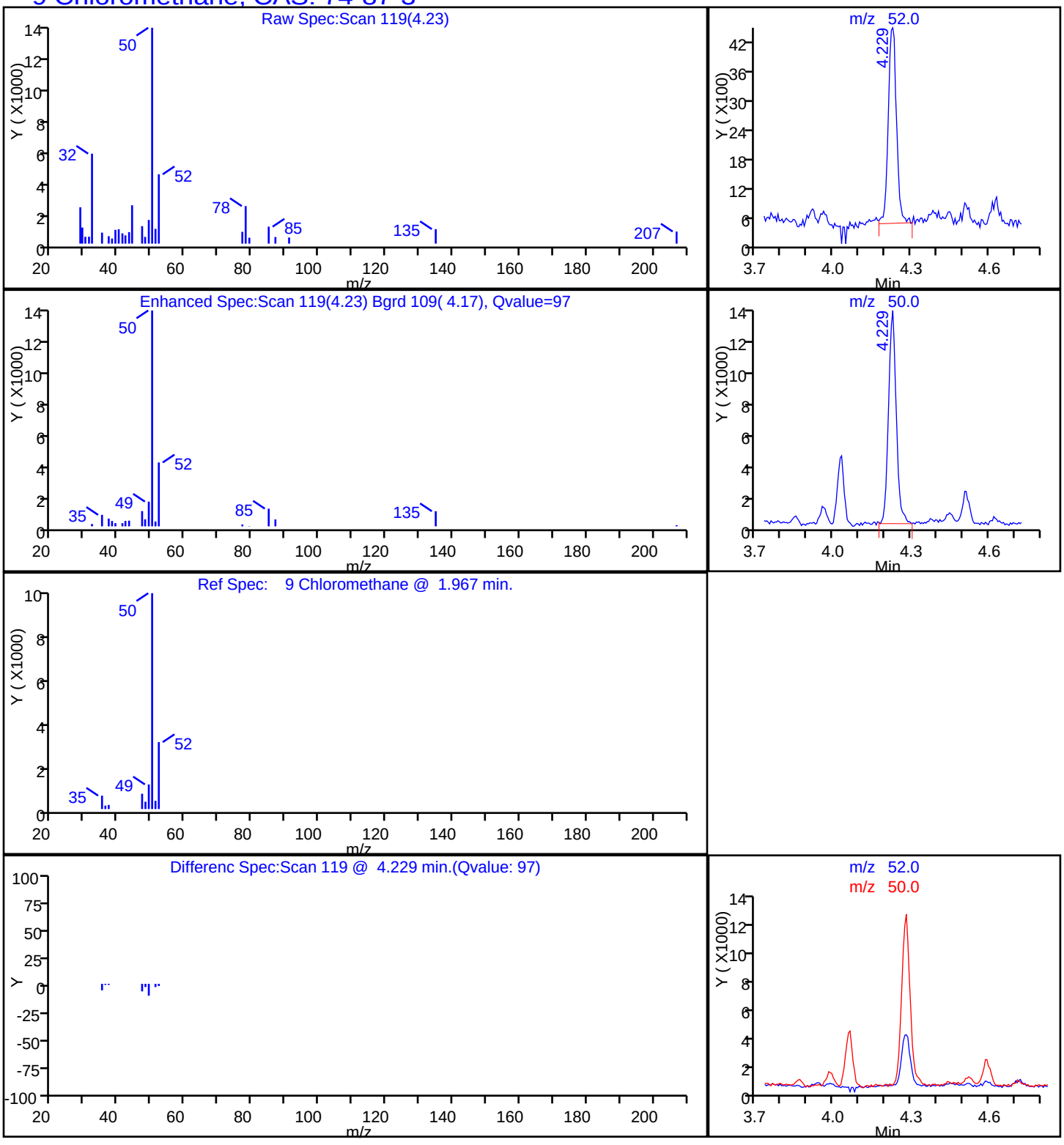
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30 Instrument ID: MJ

Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

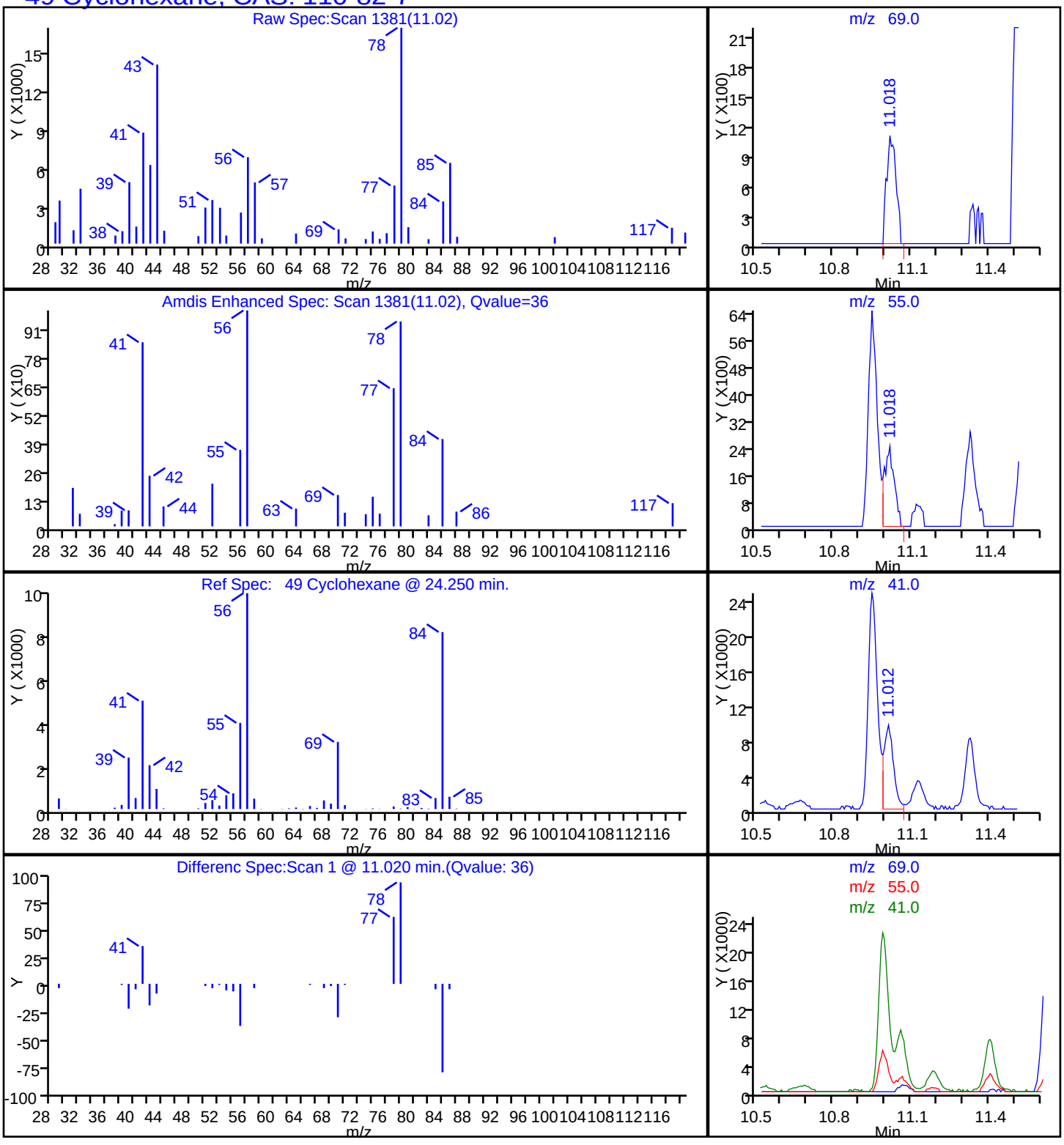
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7



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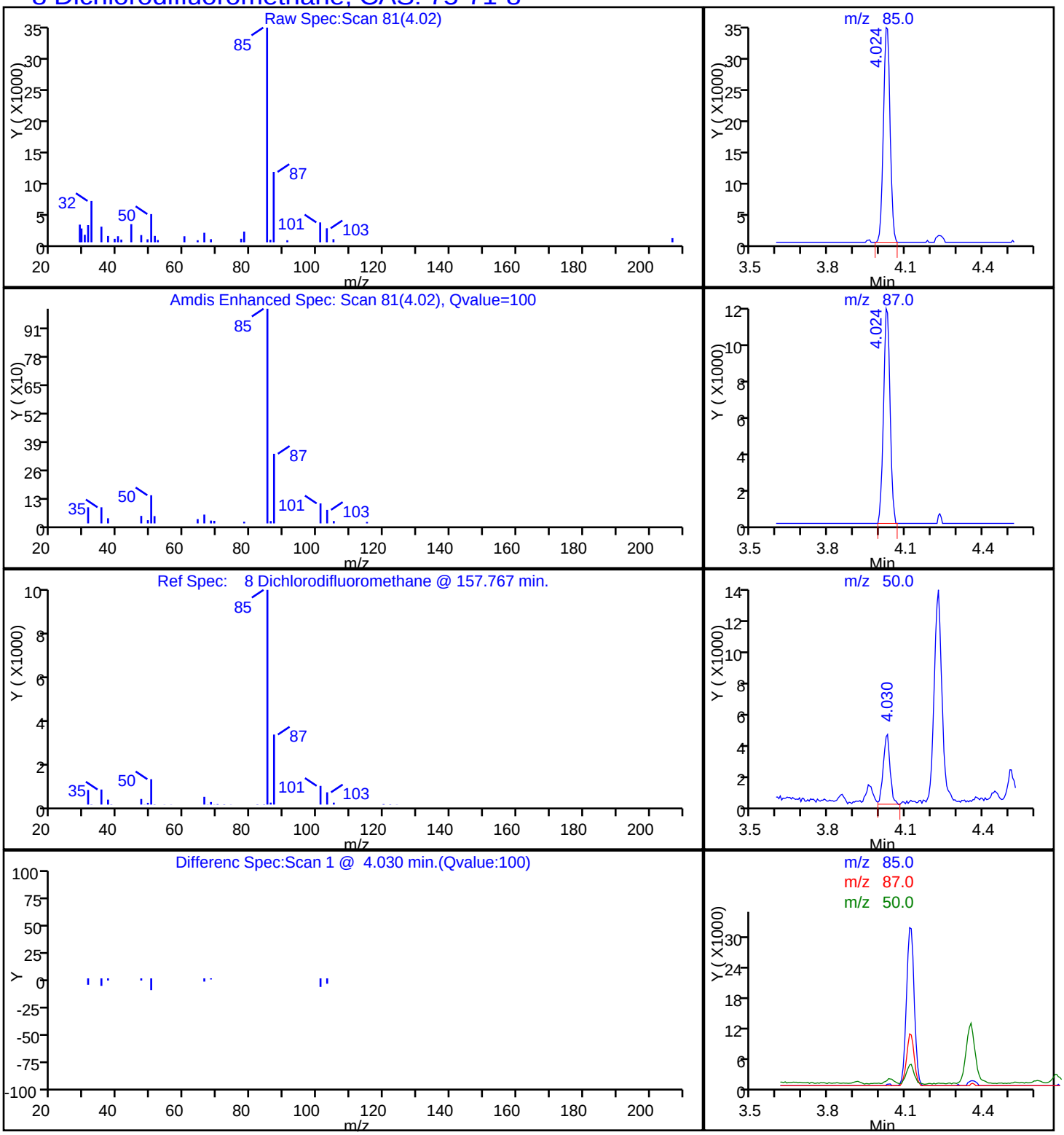
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



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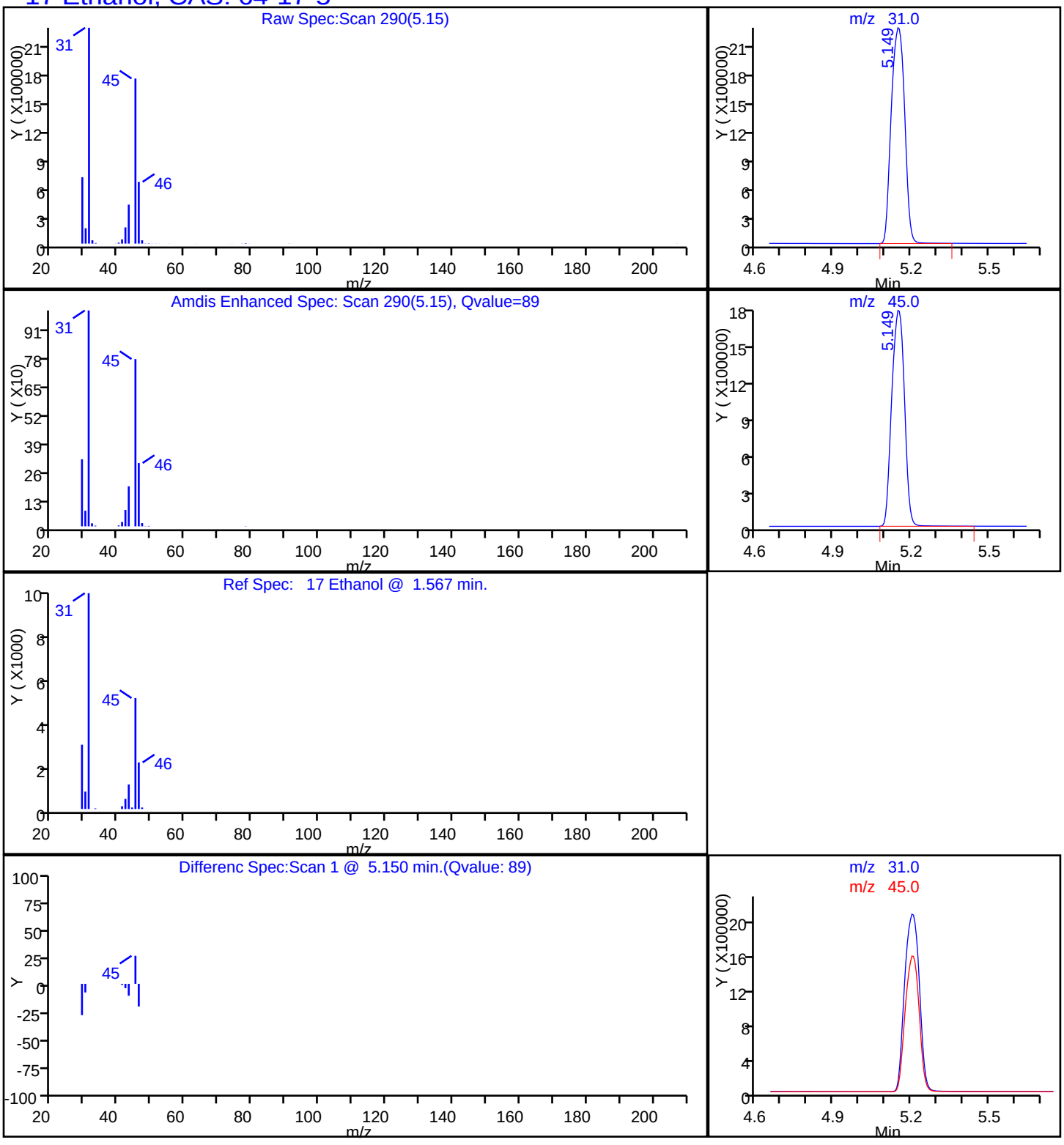
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



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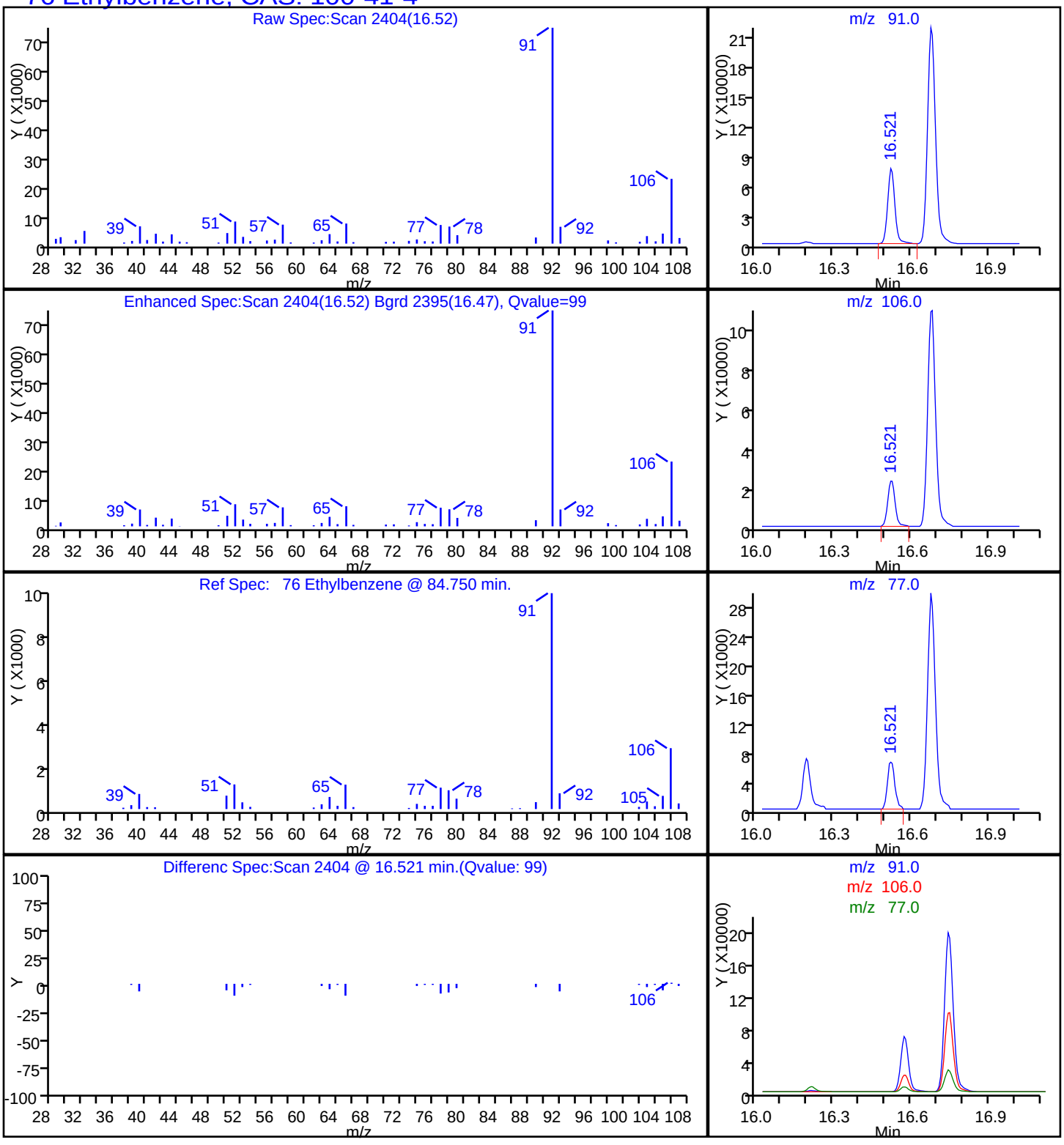
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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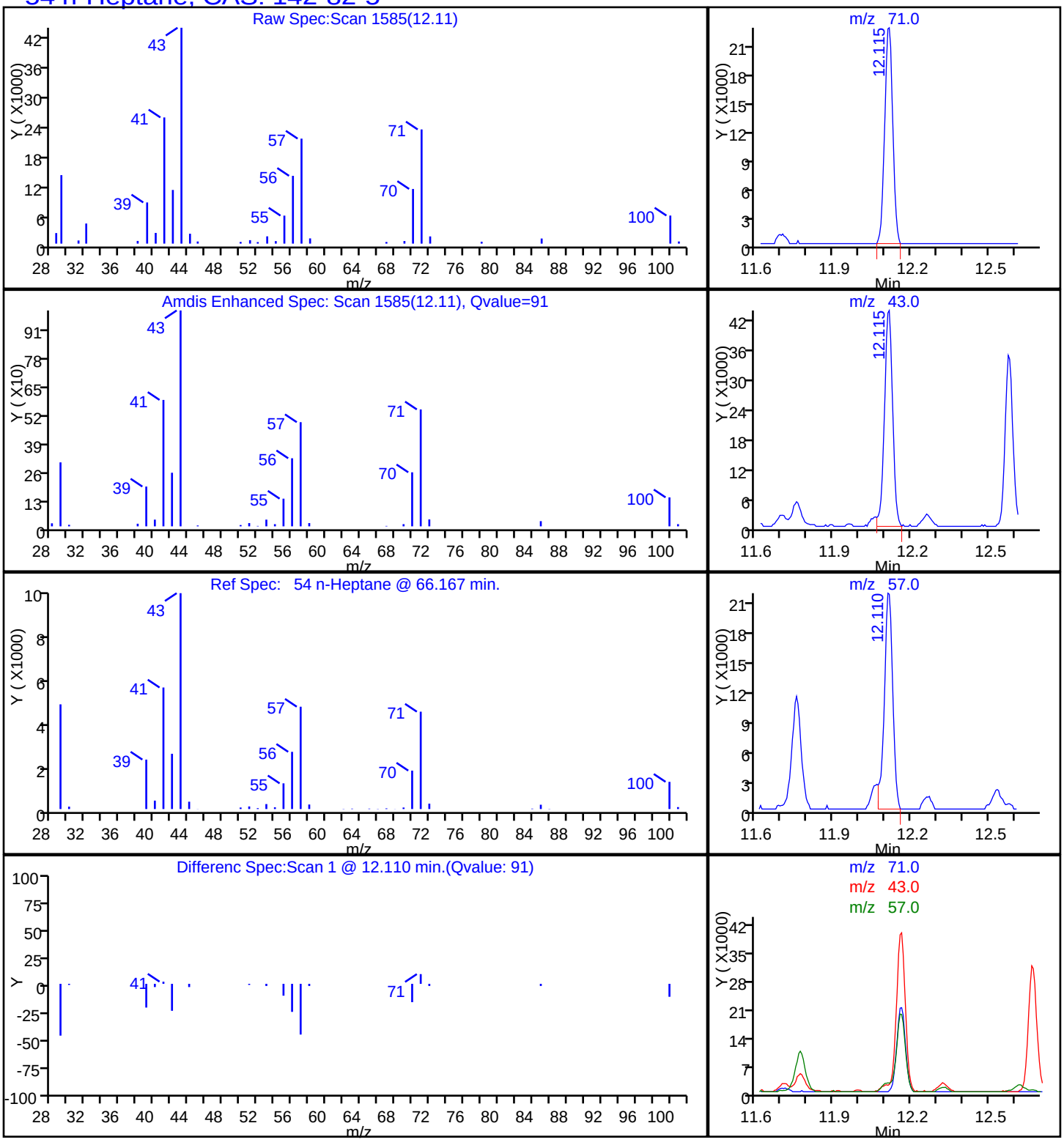
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



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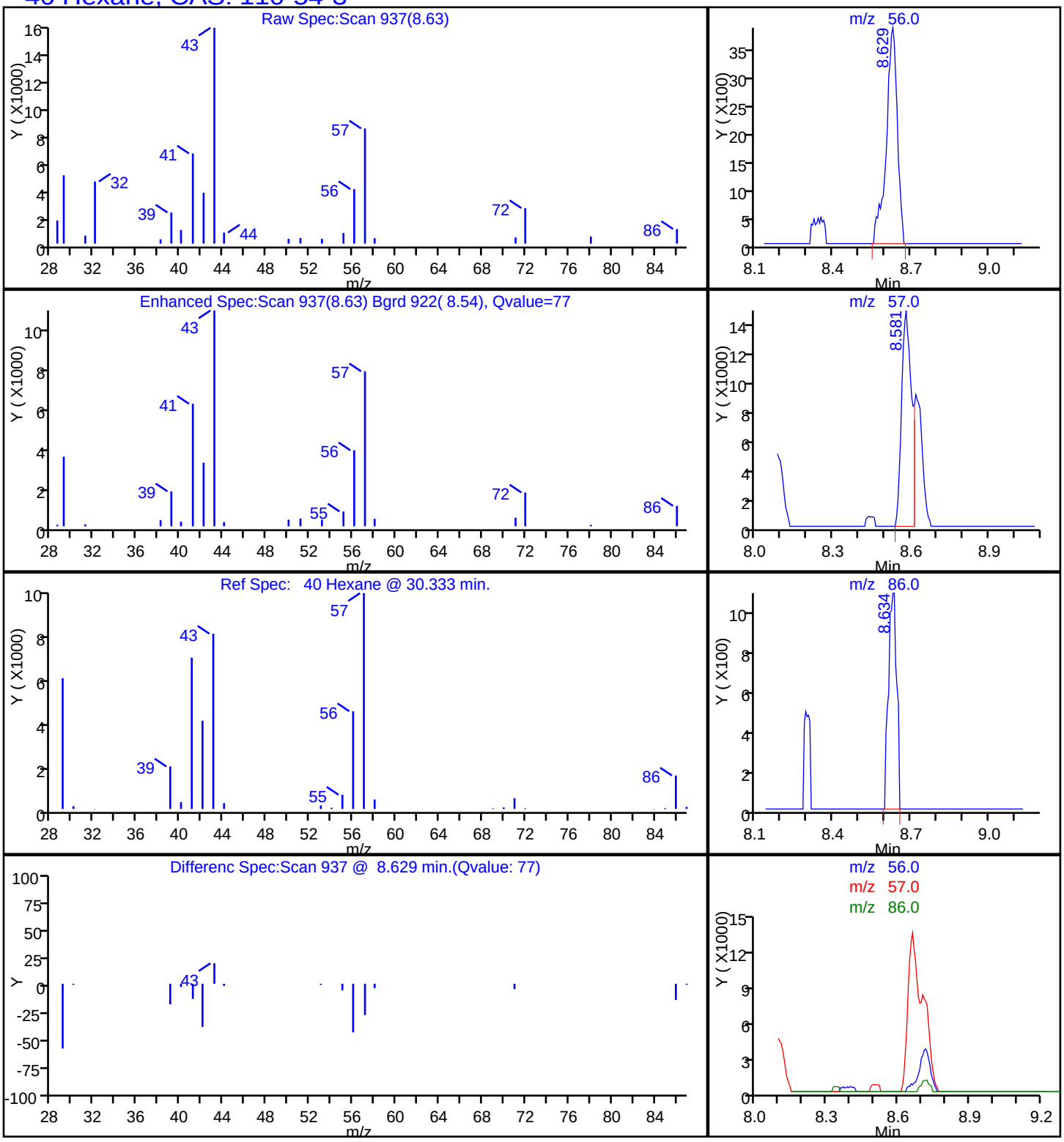
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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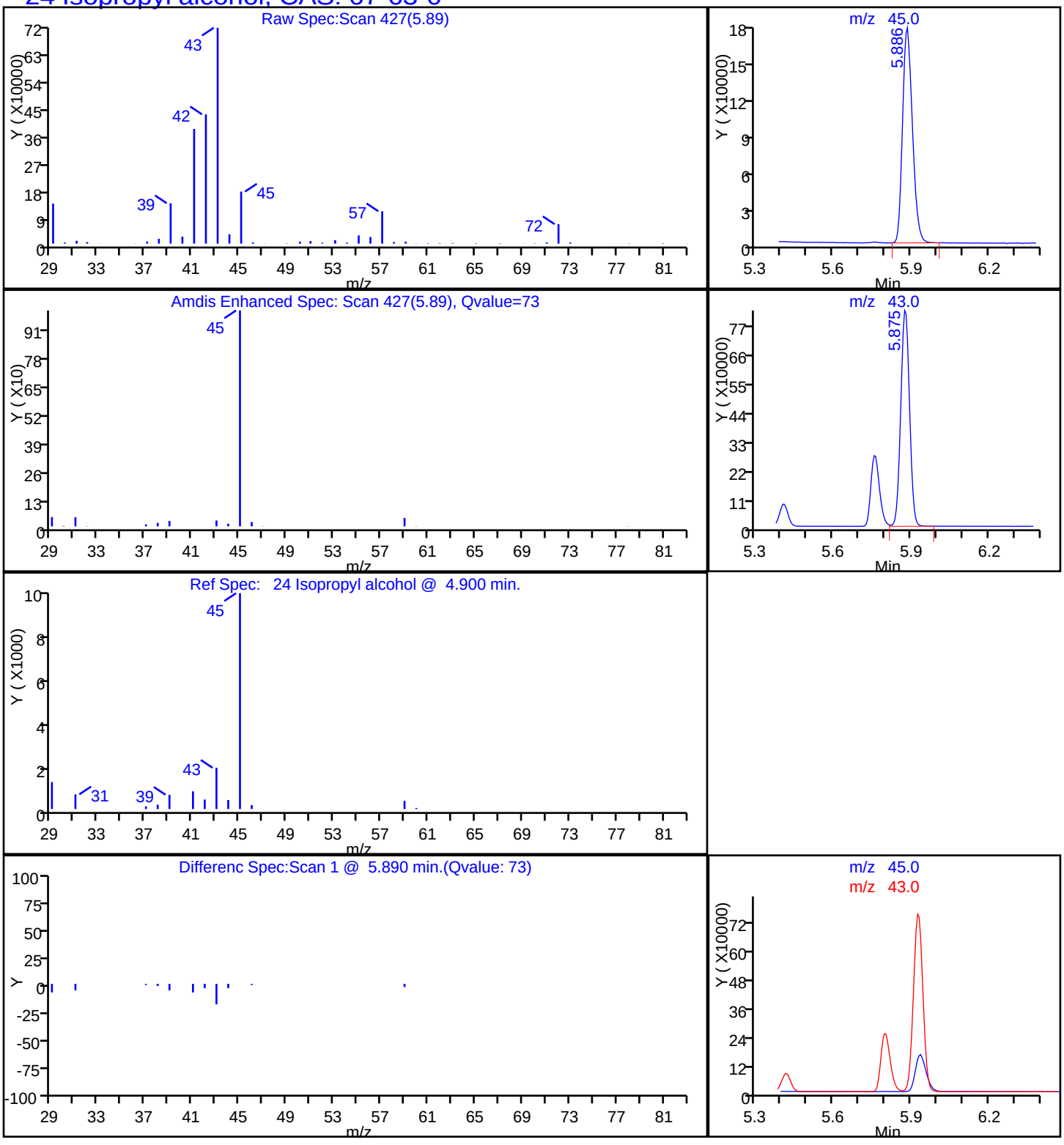
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0



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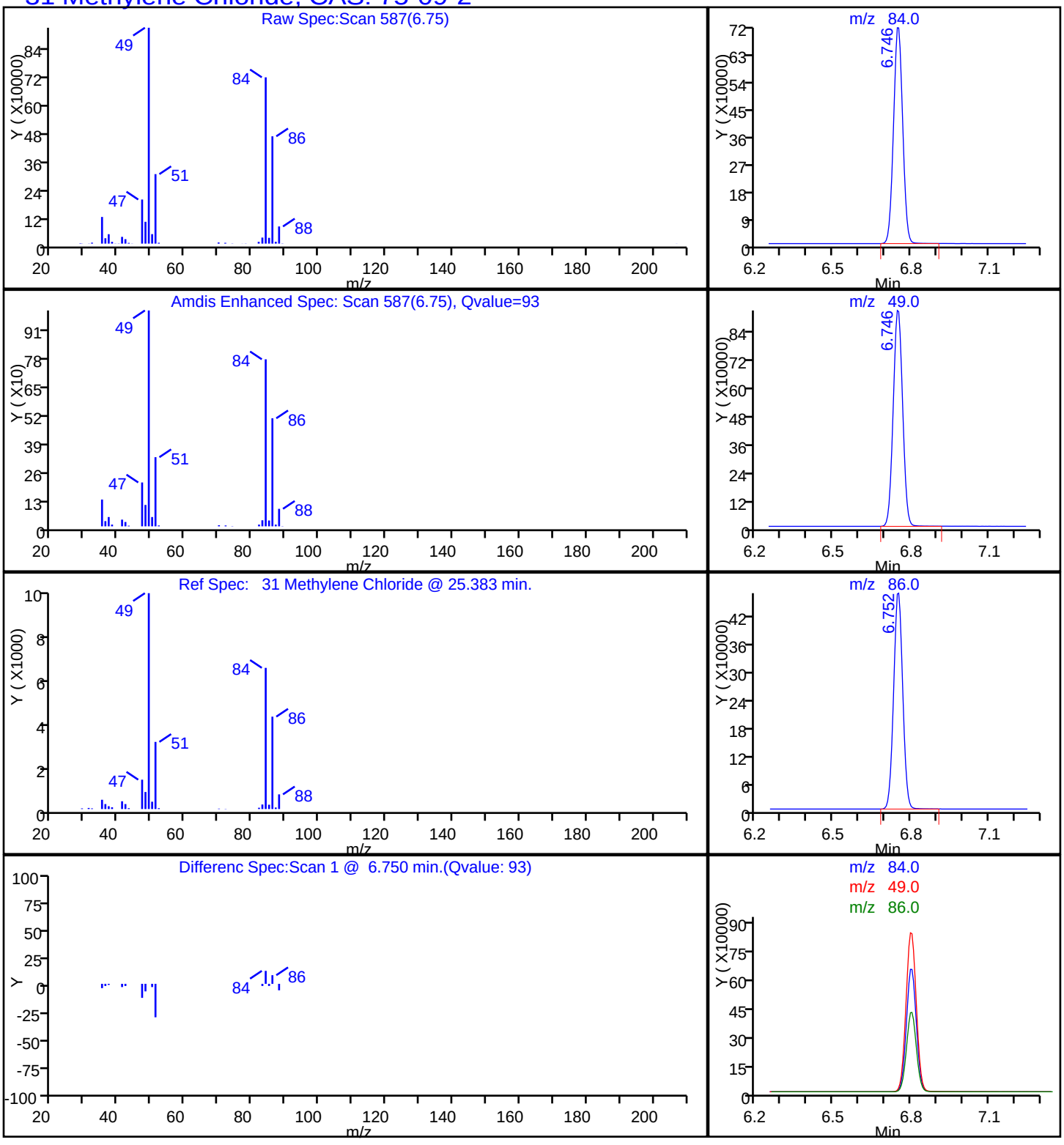
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



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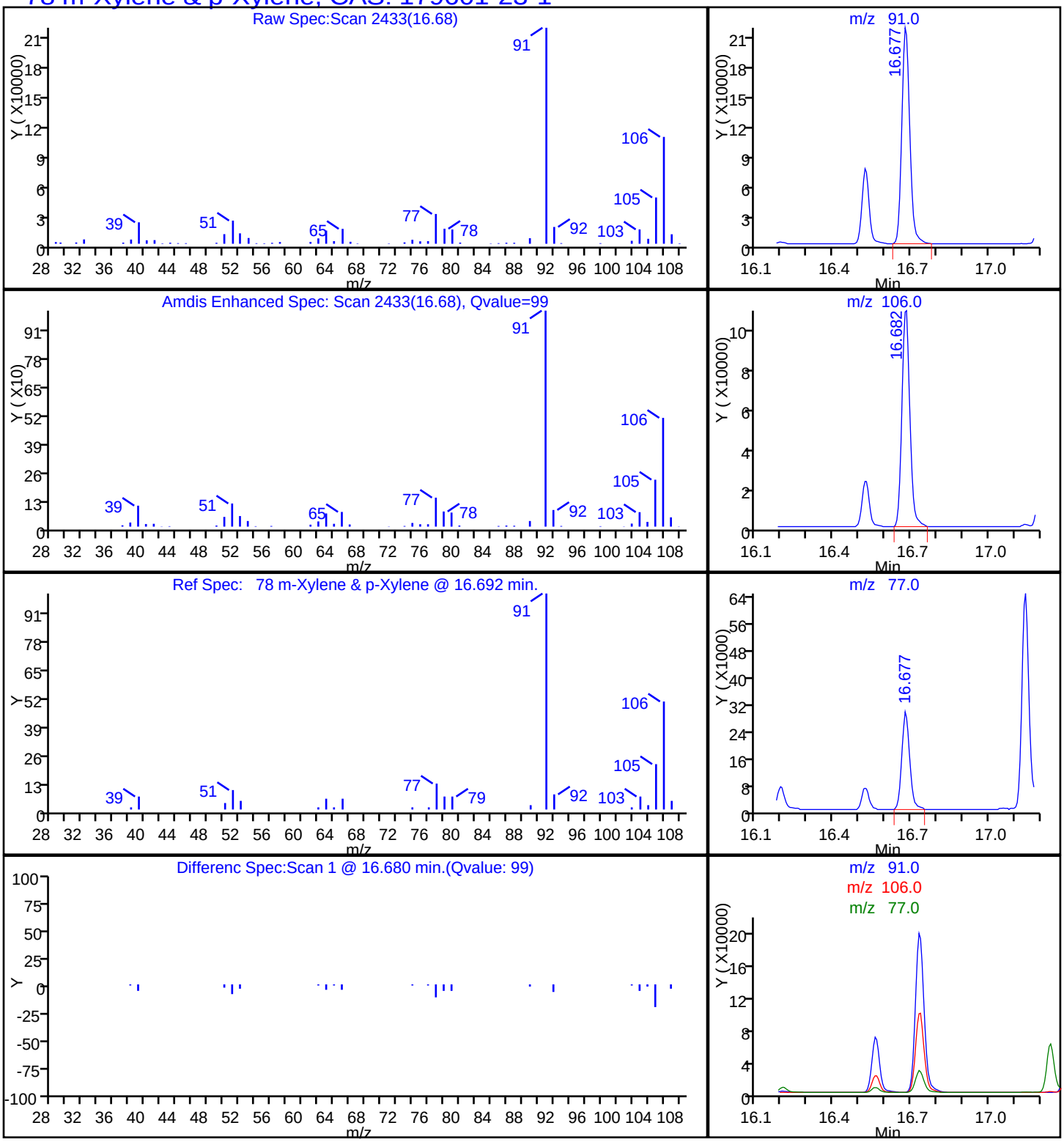
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



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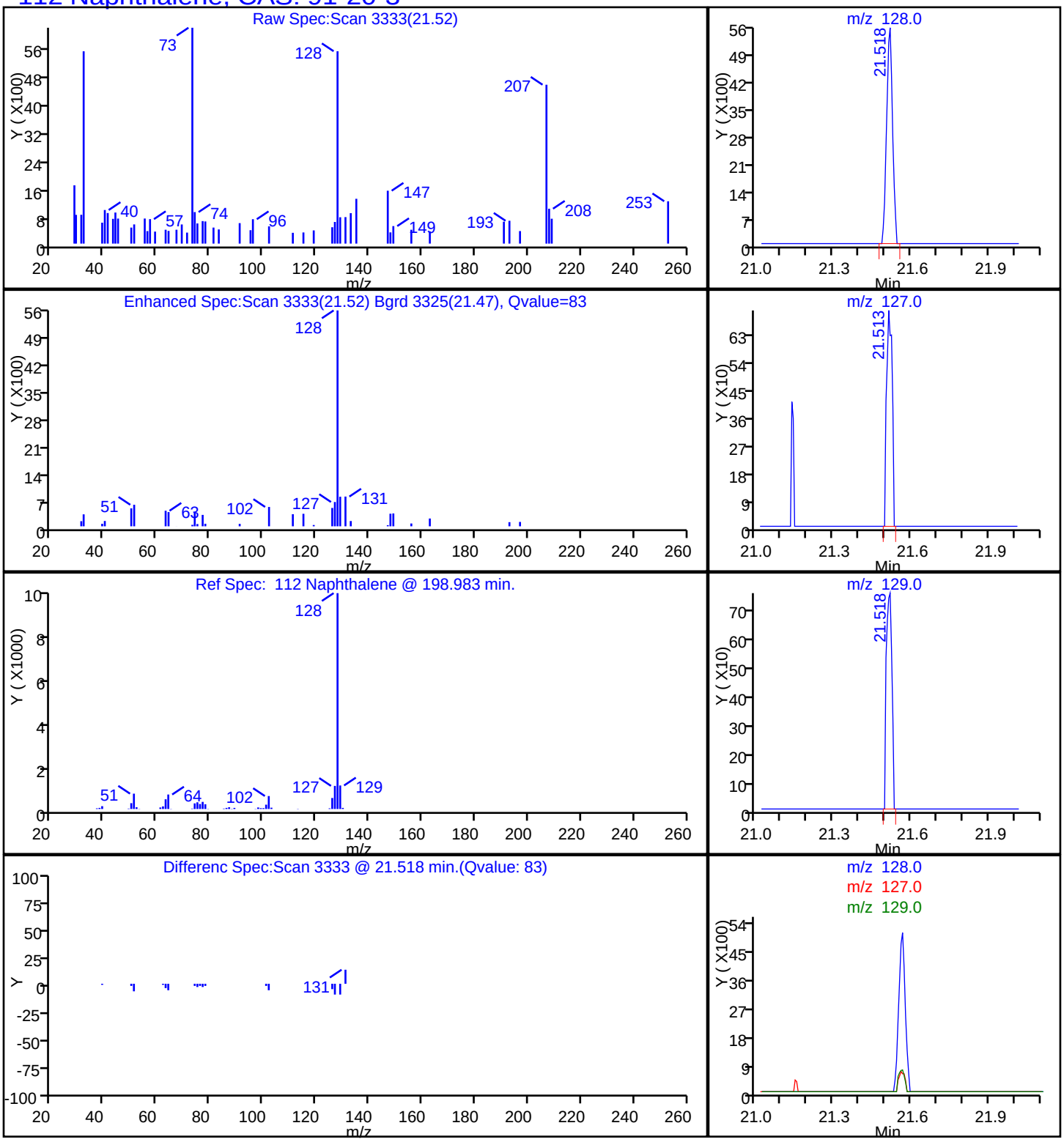
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

112 Naphthalene, CAS: 91-20-3



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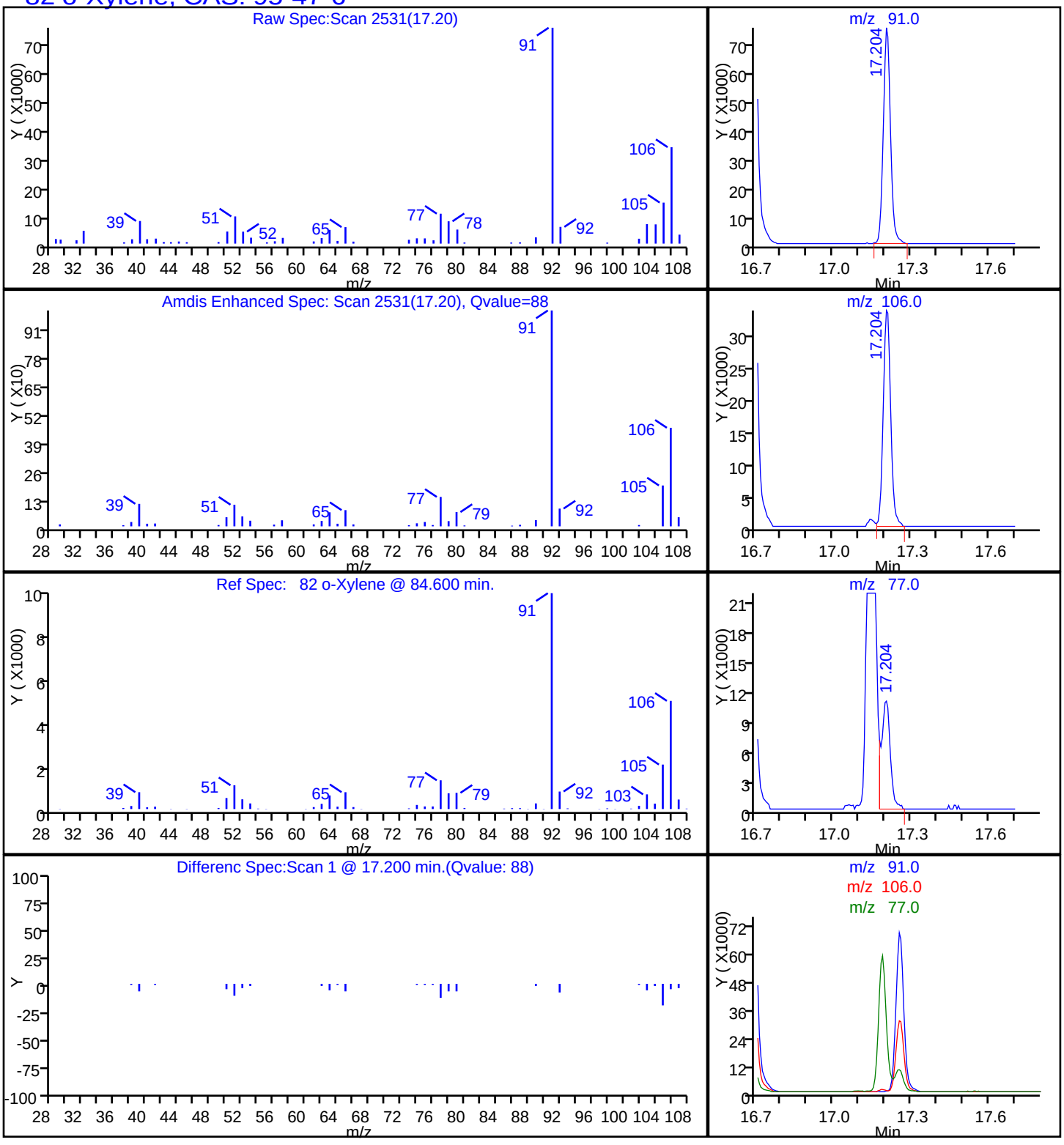
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



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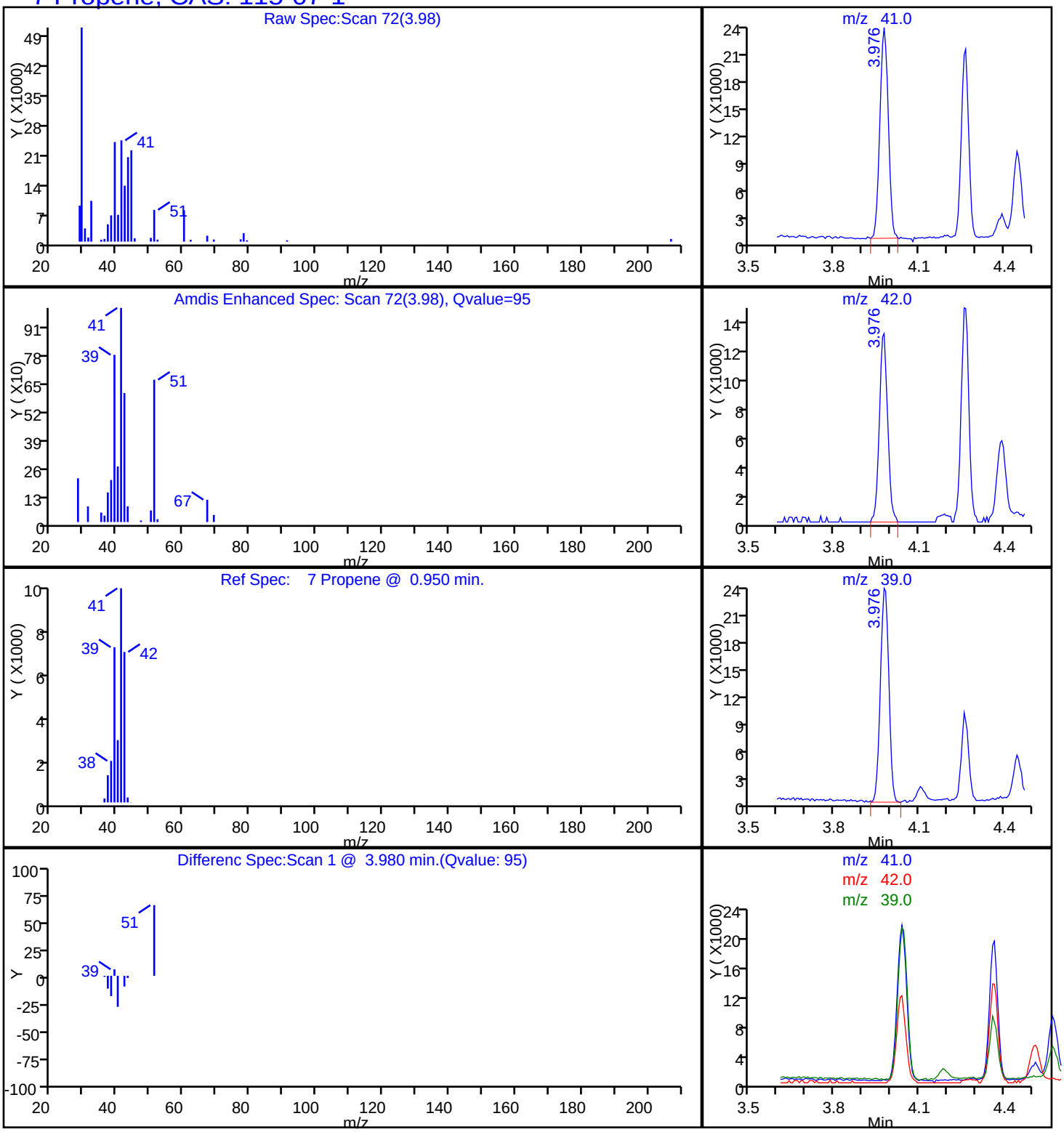
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



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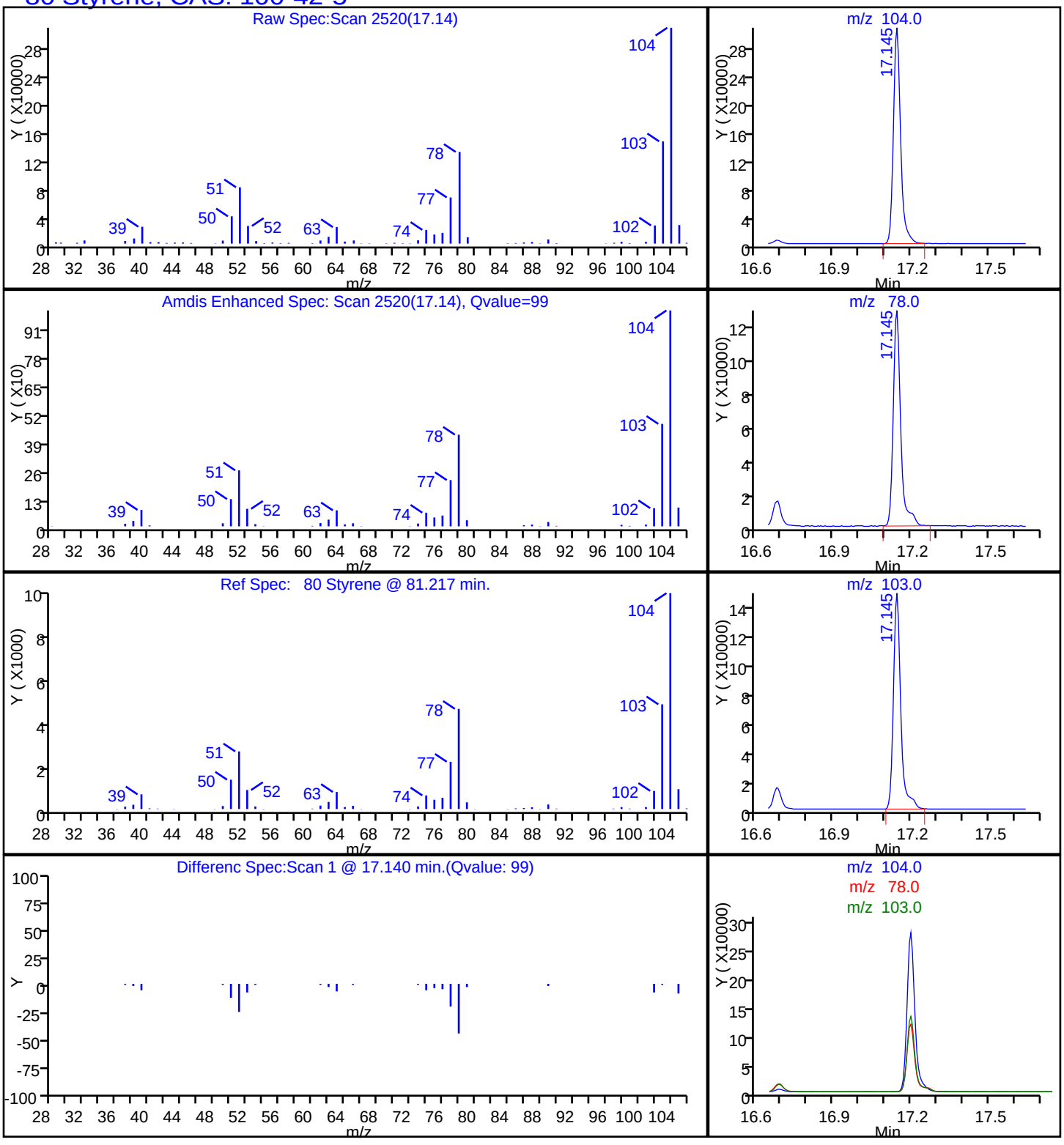
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

80 Styrene, CAS: 100-42-5



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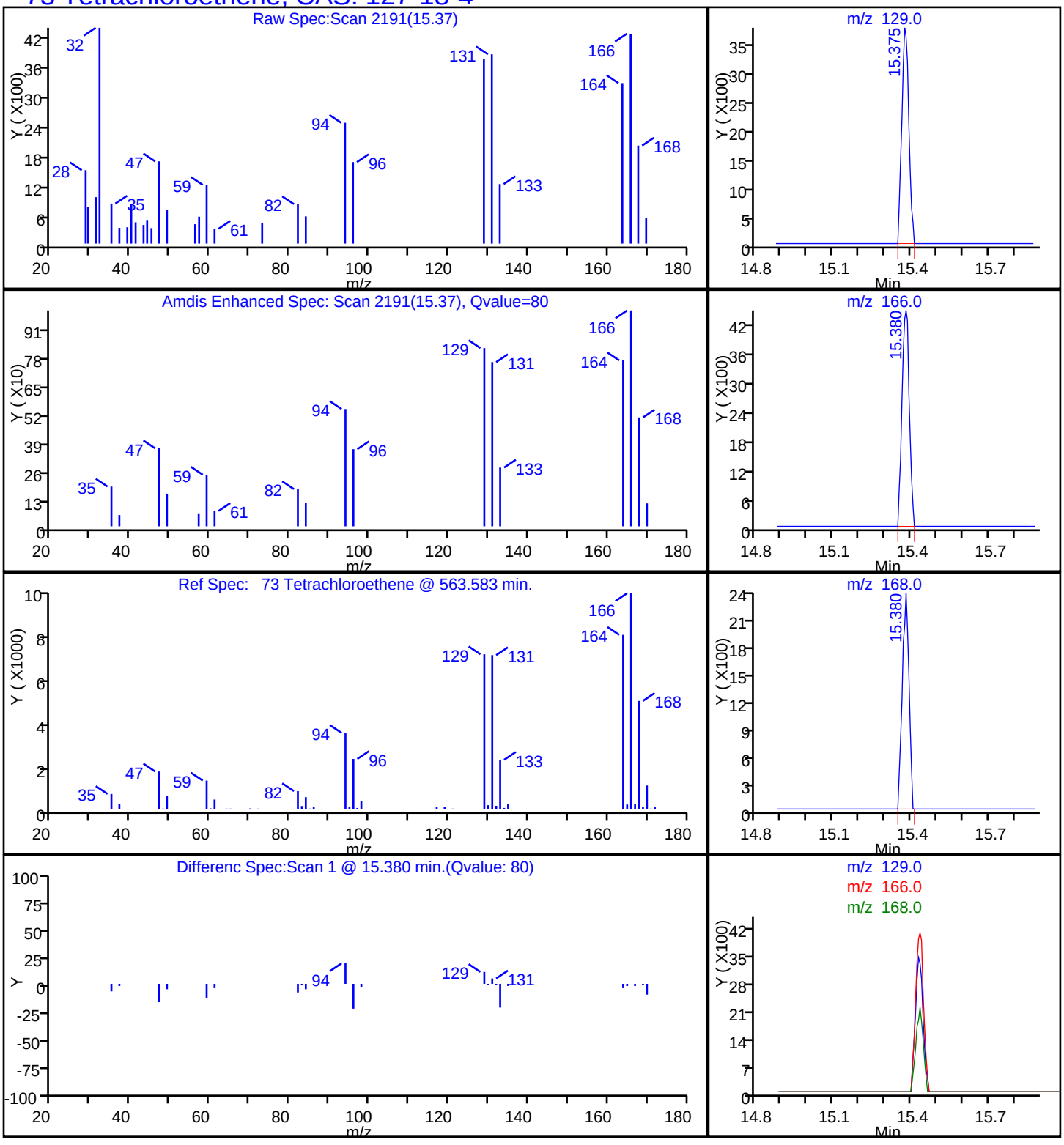
Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



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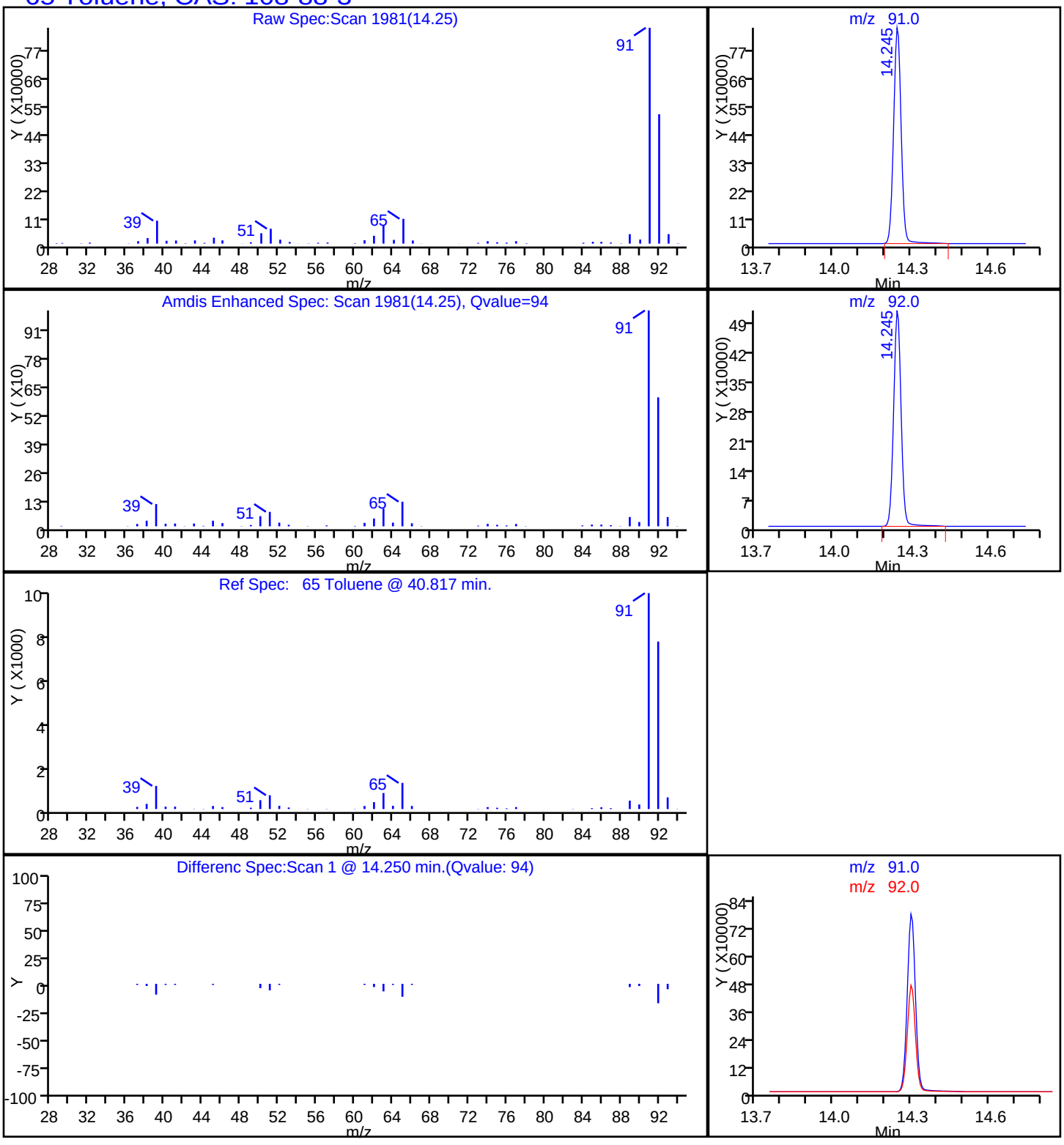
Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D				
Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



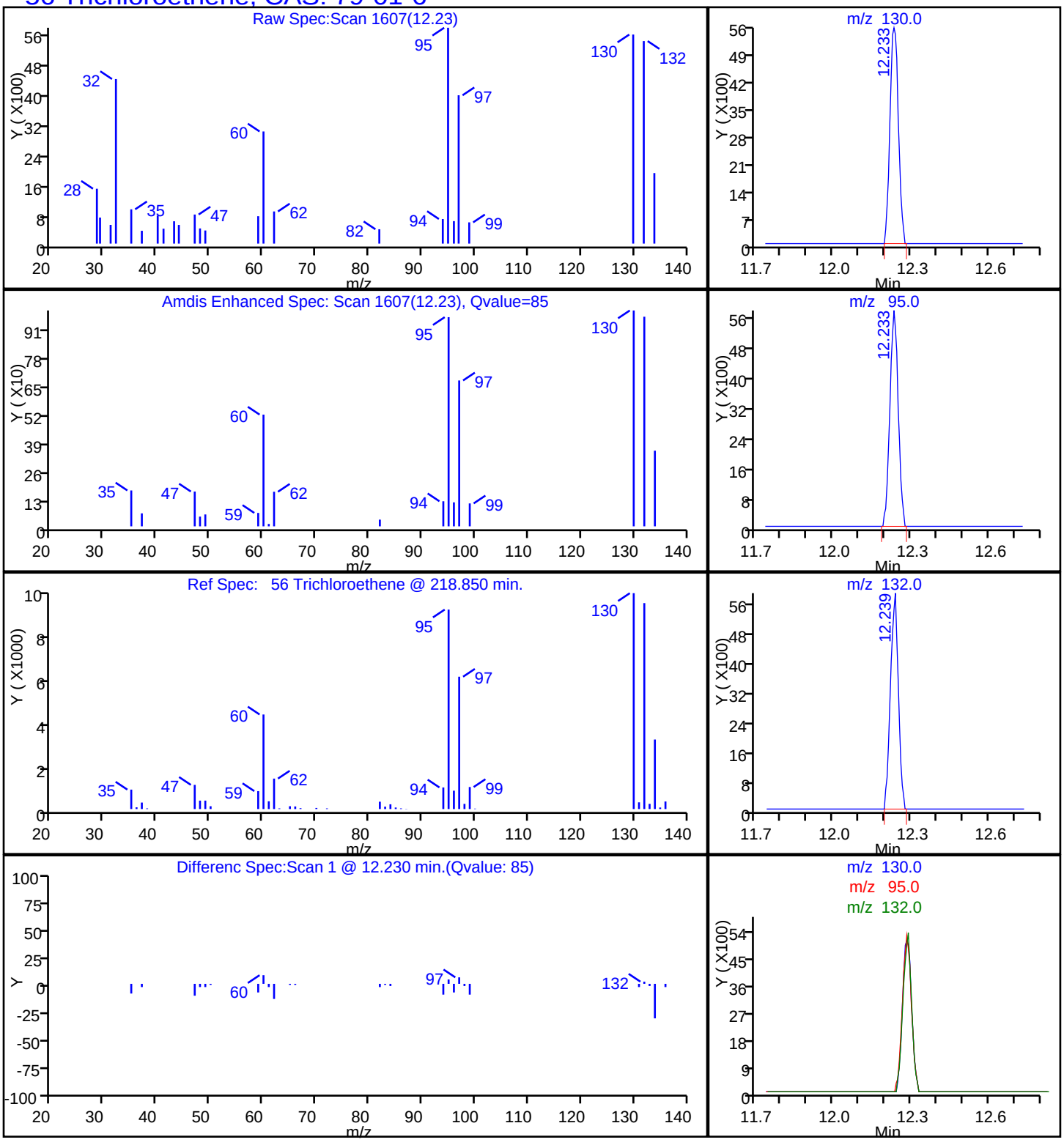
Report Date: 24-Mar-2014 08:38:55 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	1 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

56 Trichloroethene, CAS: 79-01-6



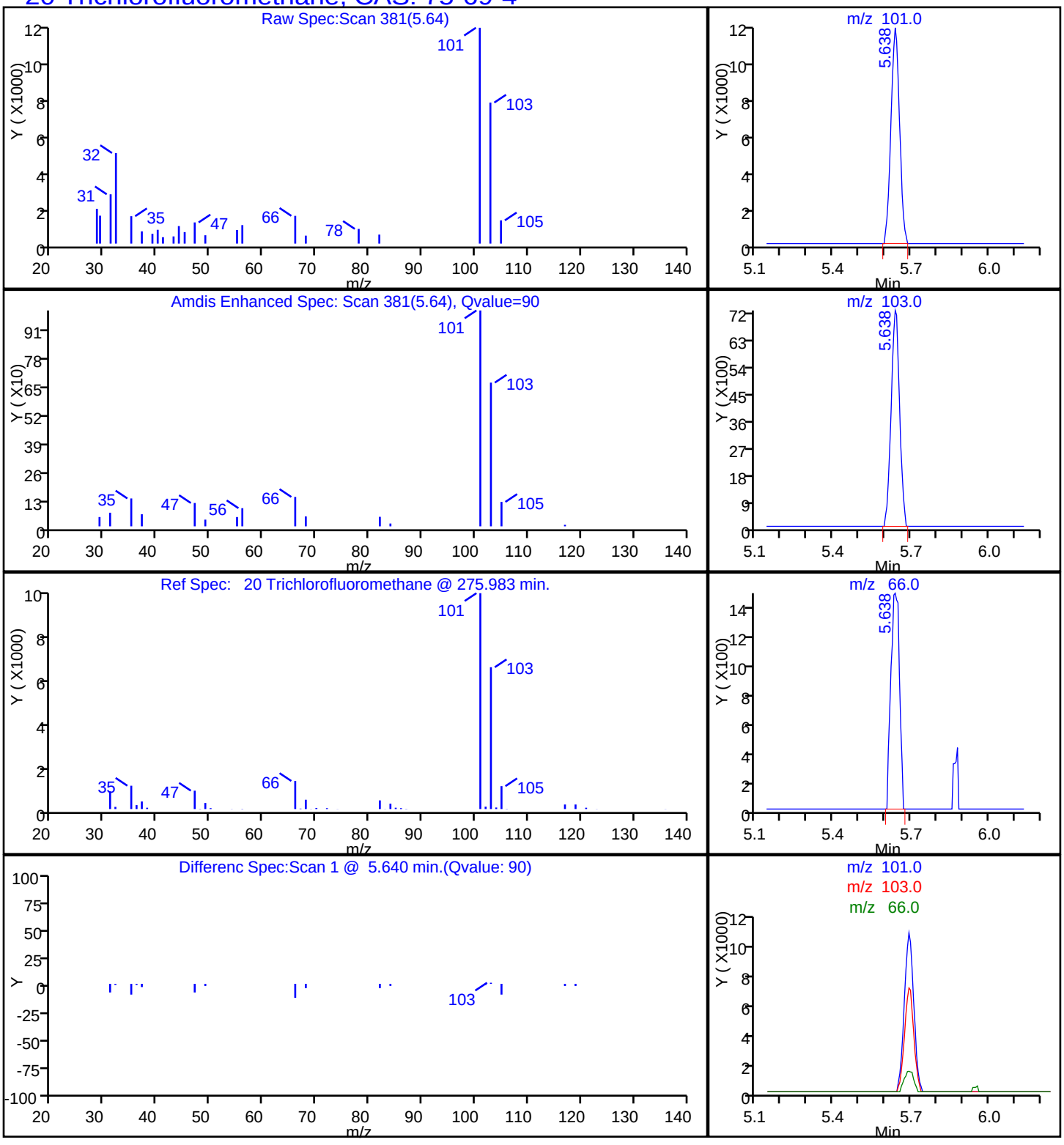
Report Date: 24-Mar-2014 08:38:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date:	21-Mar-2014 15:32:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18		
Client ID:	PCV-IAPC-B5				
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 DL Lab Sample ID: 140-1063-18 DL

Matrix: Air Lab File ID: EC24P105.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 20(mL) Date Analyzed: 03/24/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	760		20	20
75-09-2	Methylene Chloride	84.93	33		5.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: PCV-IAPC-B5 DL Lab Sample ID: 140-1063-18 DL

Matrix: Air Lab File ID: EC24P105.D

Analysis Method: TO-15 Date Collected: 03/12/2014 15:59

Sample wt/vol: 20(mL) Date Analyzed: 03/24/2014 14:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	1400		38	38
75-09-2	Methylene Chloride	84.93	120		17	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D
Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18
Client ID: PCV-IAPC-B5
Sample Type: Client
Inject. Date: 24-Mar-2014 14:38:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-18
Misc. Info.: E032414,TO155,,140-0000541-008
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: tajh Date: 25-Mar-2014 07:23:46

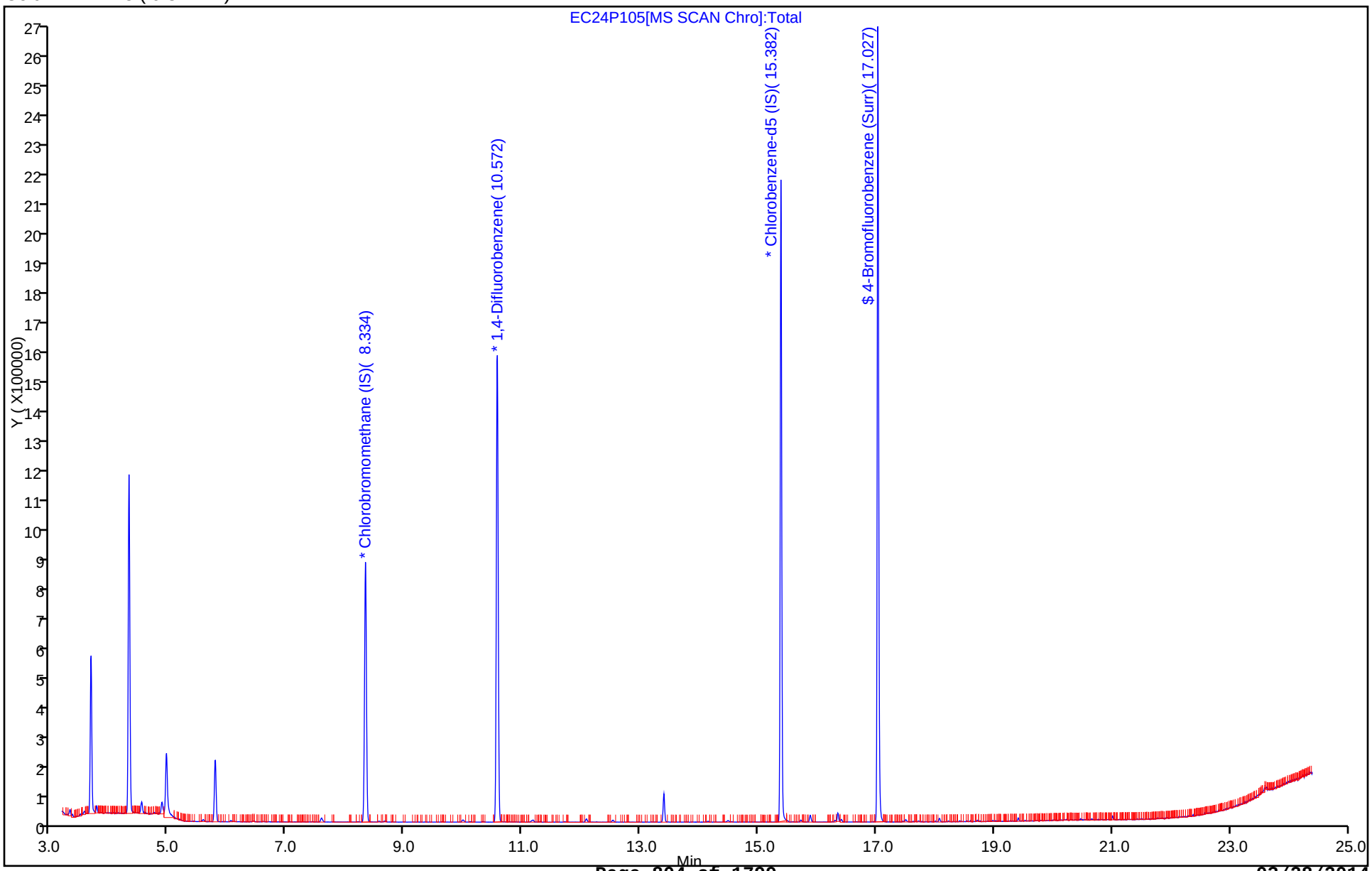
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	68	291453	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1374784	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1172758	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	889142	3.46	
7 Propene	41	3.319	3.314	0.005	65	4669	0.0637	
17 Ethanol	31	4.322	4.312	0.010	97	880349	30.2	
19 2-Methylbutane	43	4.538	4.533	0.005	83	13375	0.1310	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	62	3505	0.0108	
24 Isopropyl alcohol	45	4.986	4.969	0.017	84	27101	0.2385	
31 Methylene Chloride	84	5.789	5.789	0.0	78	111559	1.34	
39 2-Butanone (MEK)	72	7.590	7.579	0.011	95	4786	0.1003	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	83	4499	0.0276	
65 Toluene	91	13.398	13.398	0.0	93	71038	0.2261	
76 Ethylbenzene	91	15.878	15.722	0.156	83	16235	0.0403	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	95	16233	0.0513	
80 Styrene	104	16.347	16.347	0.0	90	17100	0.0780	

Report Date: 25-Mar-2014 07:23:47 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D				
Injection Date:	24-Mar-2014 14:38:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18	Worklist Smp#:	8
Client ID:	PCV-IAPC-B5				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

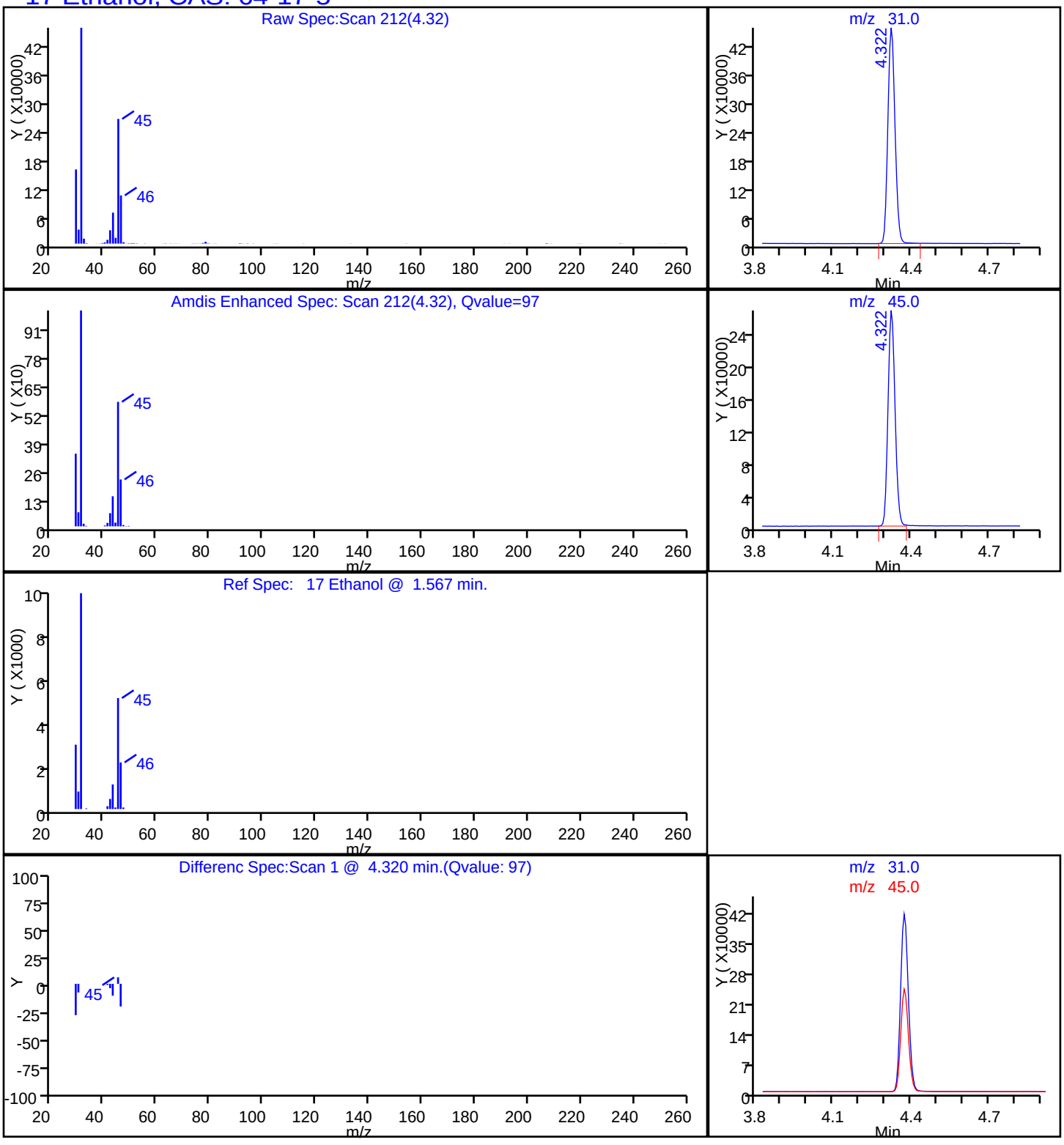


Report Date: 25-Mar-2014 07:23:47 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D		
Injection Date:	24-Mar-2014 14:38:30	Instrument ID:	ME
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



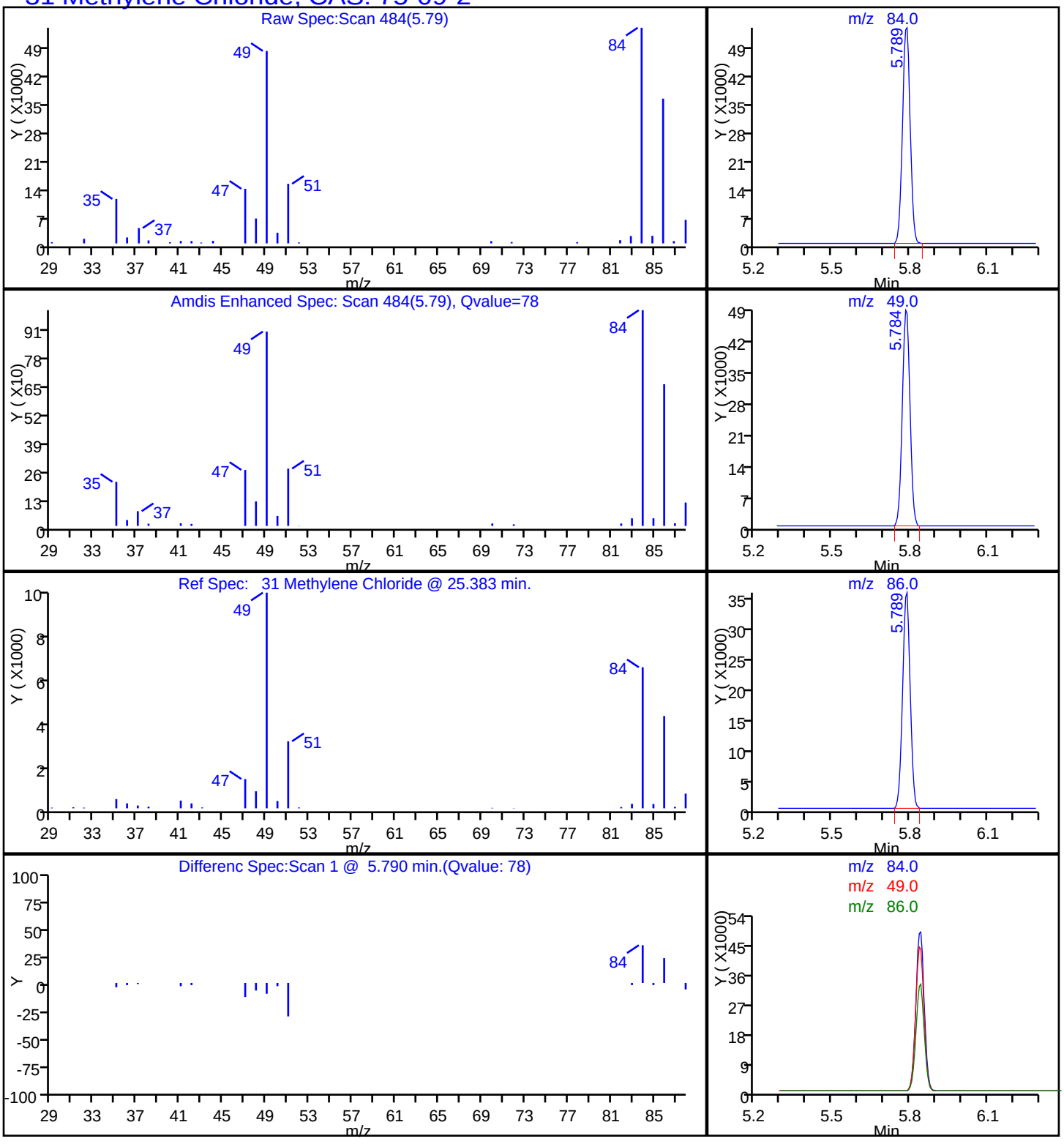
Report Date: 25-Mar-2014 07:23:47 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D

Injection Date:	24-Mar-2014 14:38:30	Instrument ID:	ME
Lims ID:	140-1063-A-18	Lab Sample ID:	140-1063-18
Client ID:	PCV-IAPC-B5		
Operator ID:	7126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.46	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.28	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.47	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	7.4		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.095	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.71	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.28	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.088	J	0.20	0.061
115-07-1	Propene	42.08	0.41	J cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.093	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.36		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.76	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.4	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	0.83	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.64		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.97	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	14		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.34	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.7	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.98	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.97		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.38	J	0.87	0.26
115-07-1	Propene	42.08	0.70	J cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.63	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19

Matrix: Air Lab File ID: JC19P104.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:25

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D
Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19
Client ID: AMB-1
Sample Type: Client
Inject. Date: 19-Mar-2014 19:31:30 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-19
Misc. Info.: J031914,TO15,,140-0000532-010
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:41:41 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:41:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.385	-0.006	90	382463	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.542	-0.006	94	1839359	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.201	-0.006	89	1520693	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.820	-0.006	91	984650	3.66	
7 Propene	41	3.978	3.973	0.005	94	19130	0.1631	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	64319	0.1698	
9 Chloromethane	52	4.231	4.231	0.0	97	8075	0.1876	
17 Ethanol	31	5.118	5.119	-0.001	94	91406	2.98	
19 2-Methylbutane	43	5.409	5.409	0.0	89	18369	0.1131	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	88	26150	0.0786	
23 Acetone	58	5.775	5.770	0.005	91	50650	0.9316	
24 Isopropyl alcohol	45	5.861	5.850	0.011	79	40534	0.2823	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.582	-0.006	62	6293	0.0273	
31 Methylene Chloride	84	6.754	6.754	0.0	85	11523	0.1126	
39 2-Butanone (MEK)	72	8.599	8.589	0.010	97	6651	0.1837	
40 Hexane	56	8.631	8.637	-0.006	60	3914	0.0381	
48 Benzene	78	11.020	11.026	-0.006	90	25107	0.0796	
50 Carbon tetrachloride	117	11.041	11.047	-0.006	88	6936	0.0266	
54 n-Heptane	71	12.112	12.123	-0.011	73	2137	0.0191	
65 Toluene	91	14.253	14.253	0.0	87	40283	0.1428	
73 Tetrachloroethene	129	15.382	15.383	-0.001	75	4888	0.0372	
78 m-Xylene & p-Xylene	91	16.684	16.685	-0.001	93	22523	0.0896	
82 o-Xylene	91	17.206	17.212	-0.006	64	8973	0.0352	
93 1,2,4-Trimethylbenzene	105	18.938	18.939	-0.001	83	18345	0.0621	

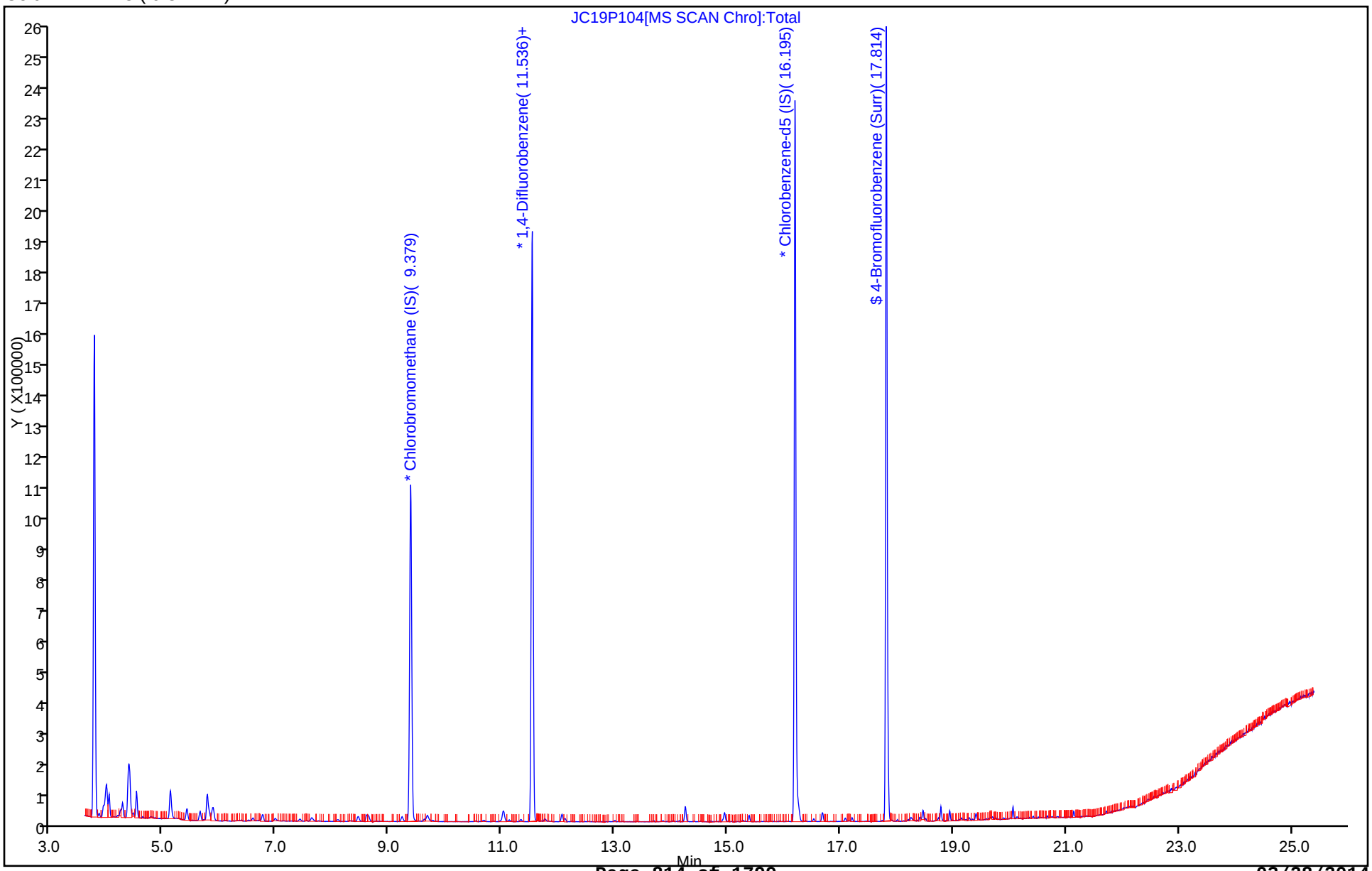
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19	Worklist Smp#:	10
Client ID:	AMB-1				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

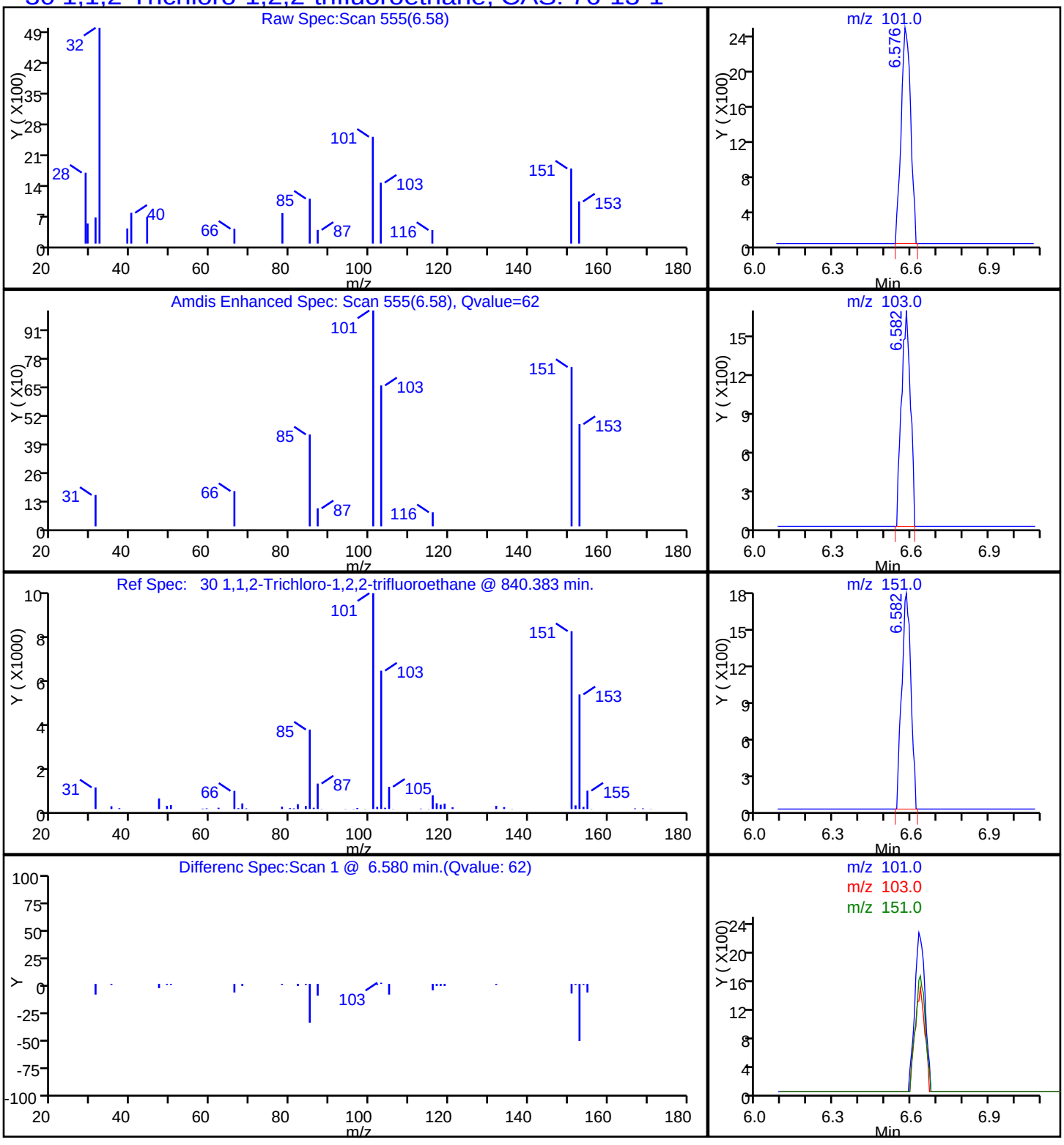
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



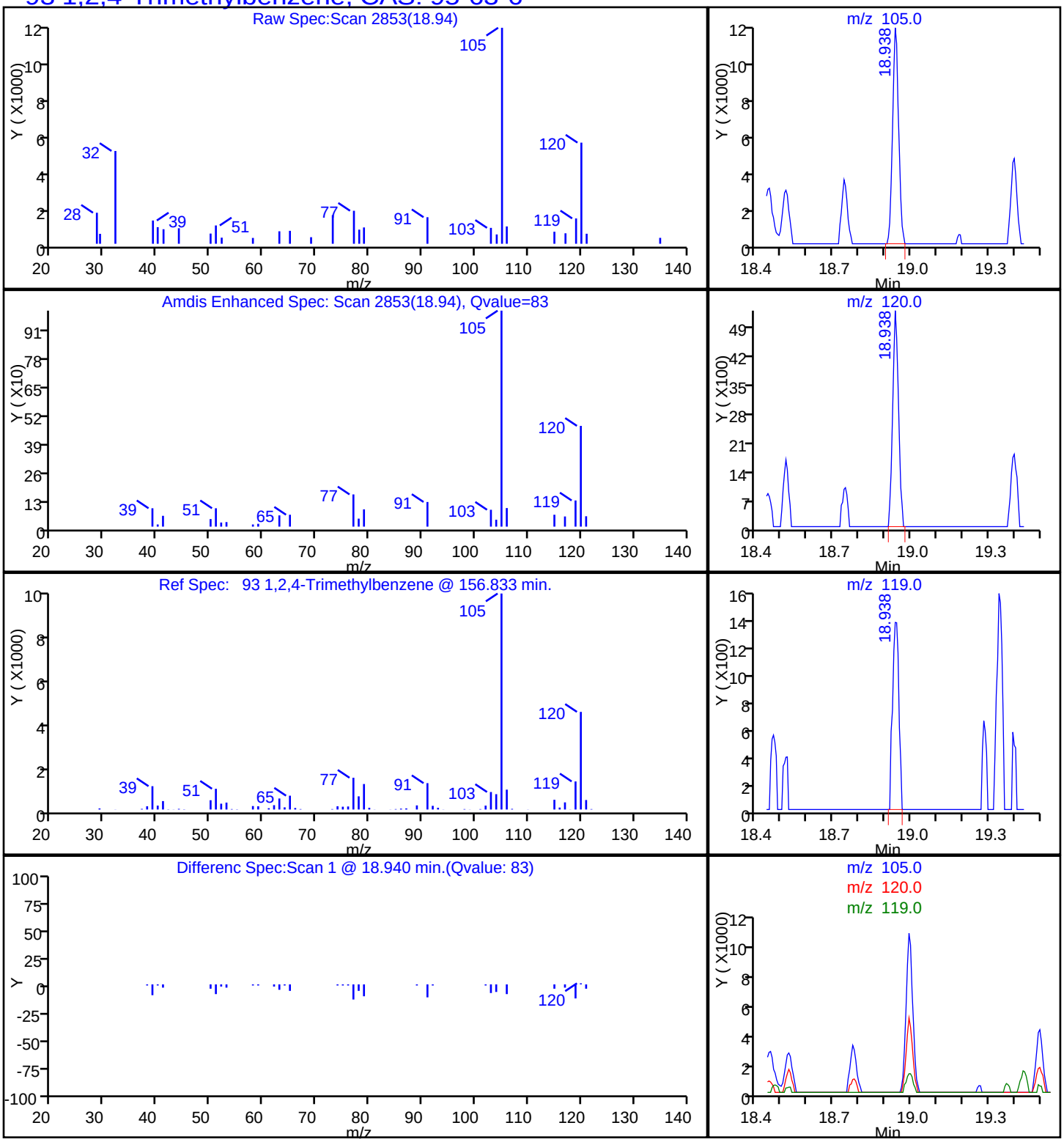
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



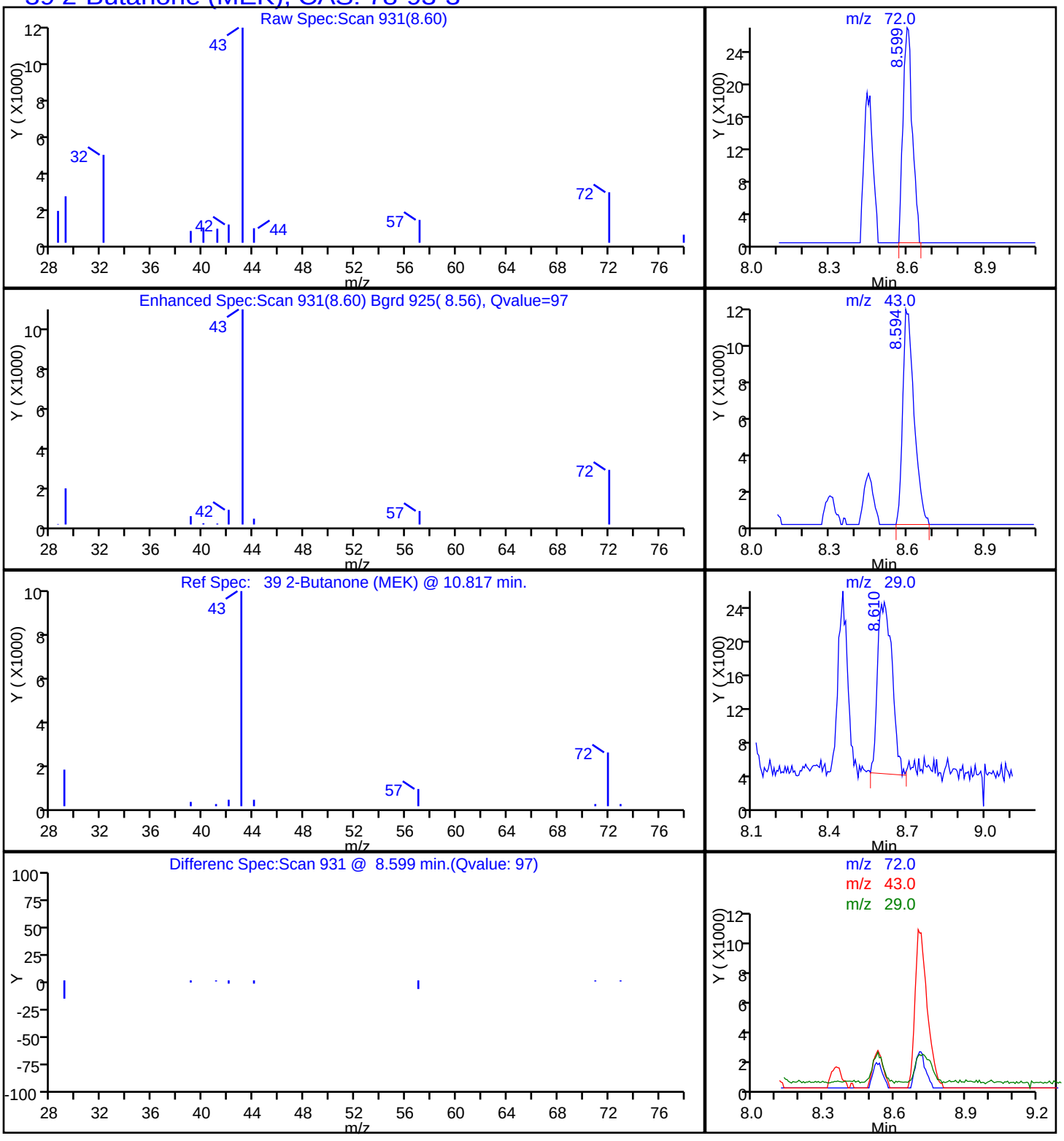
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

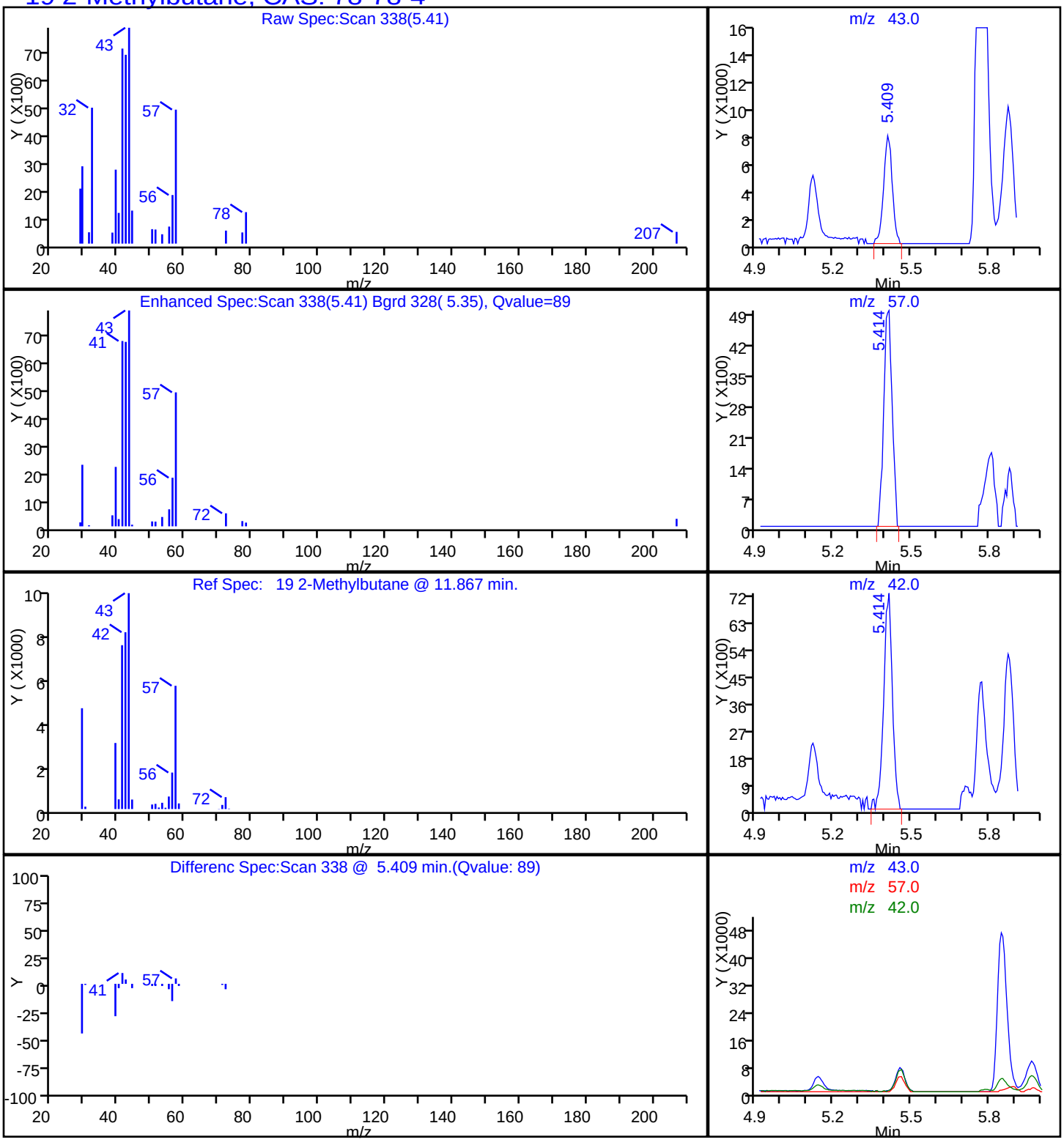
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

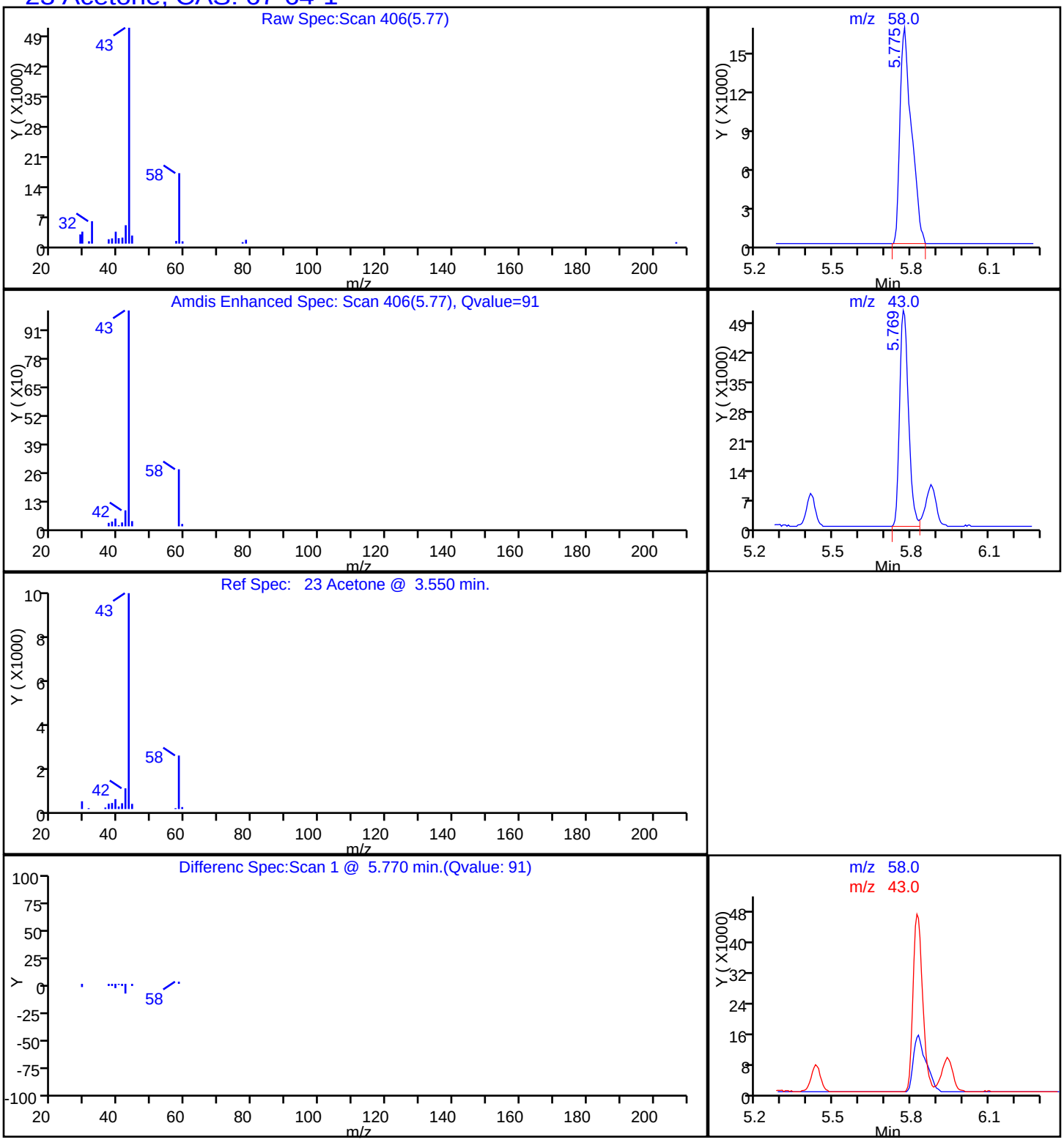
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

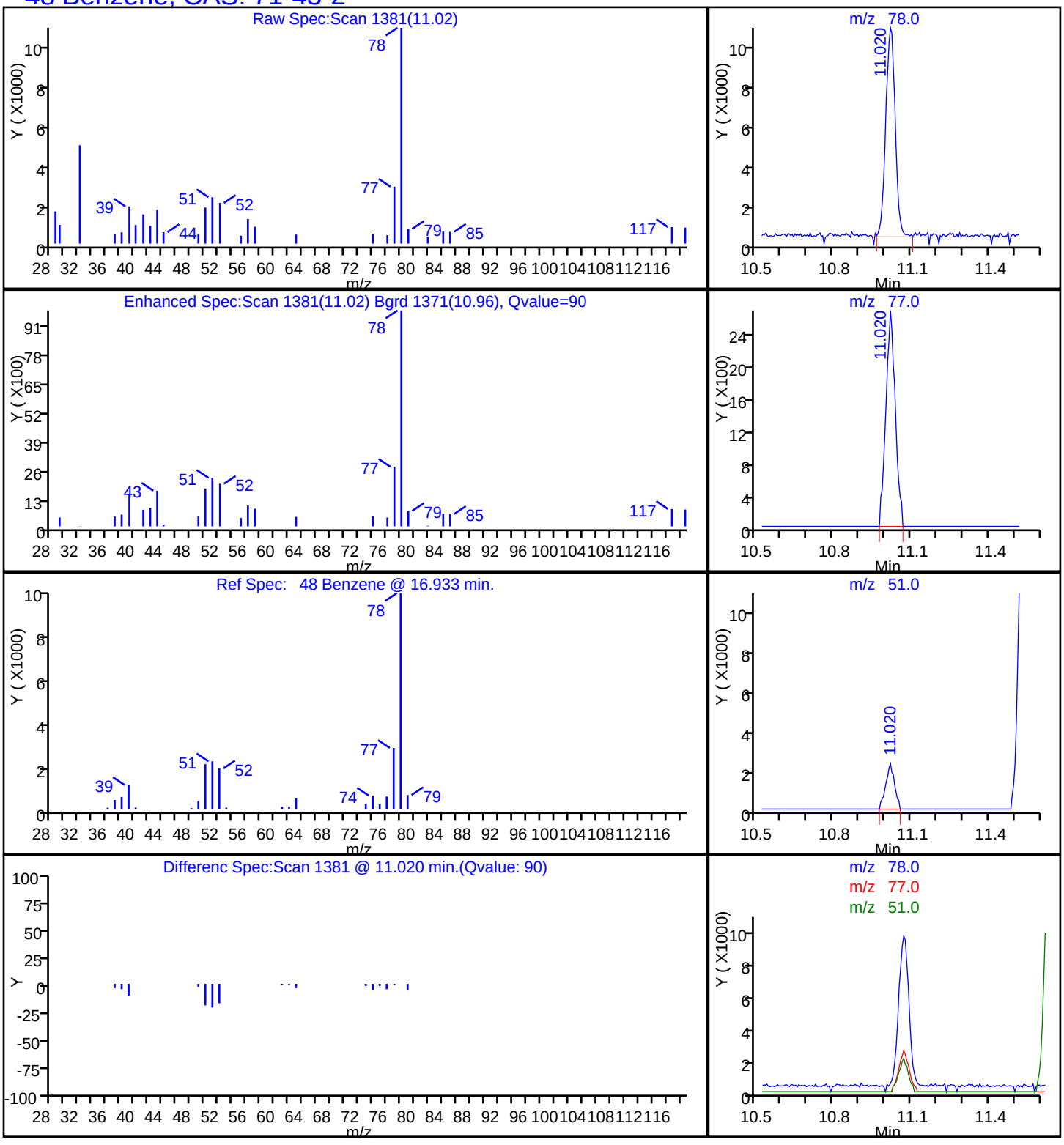
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

48 Benzene, CAS: 71-43-2



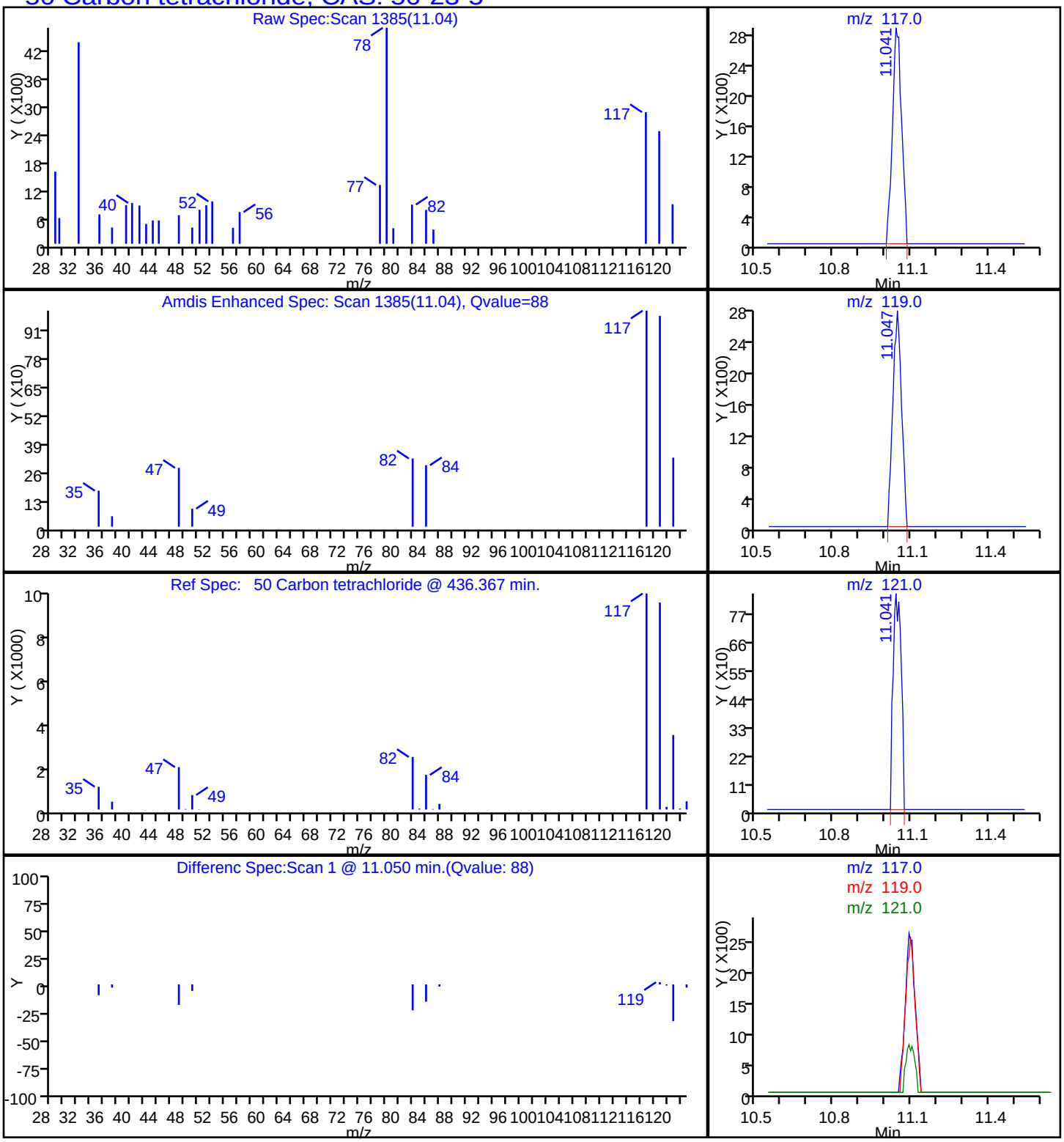
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

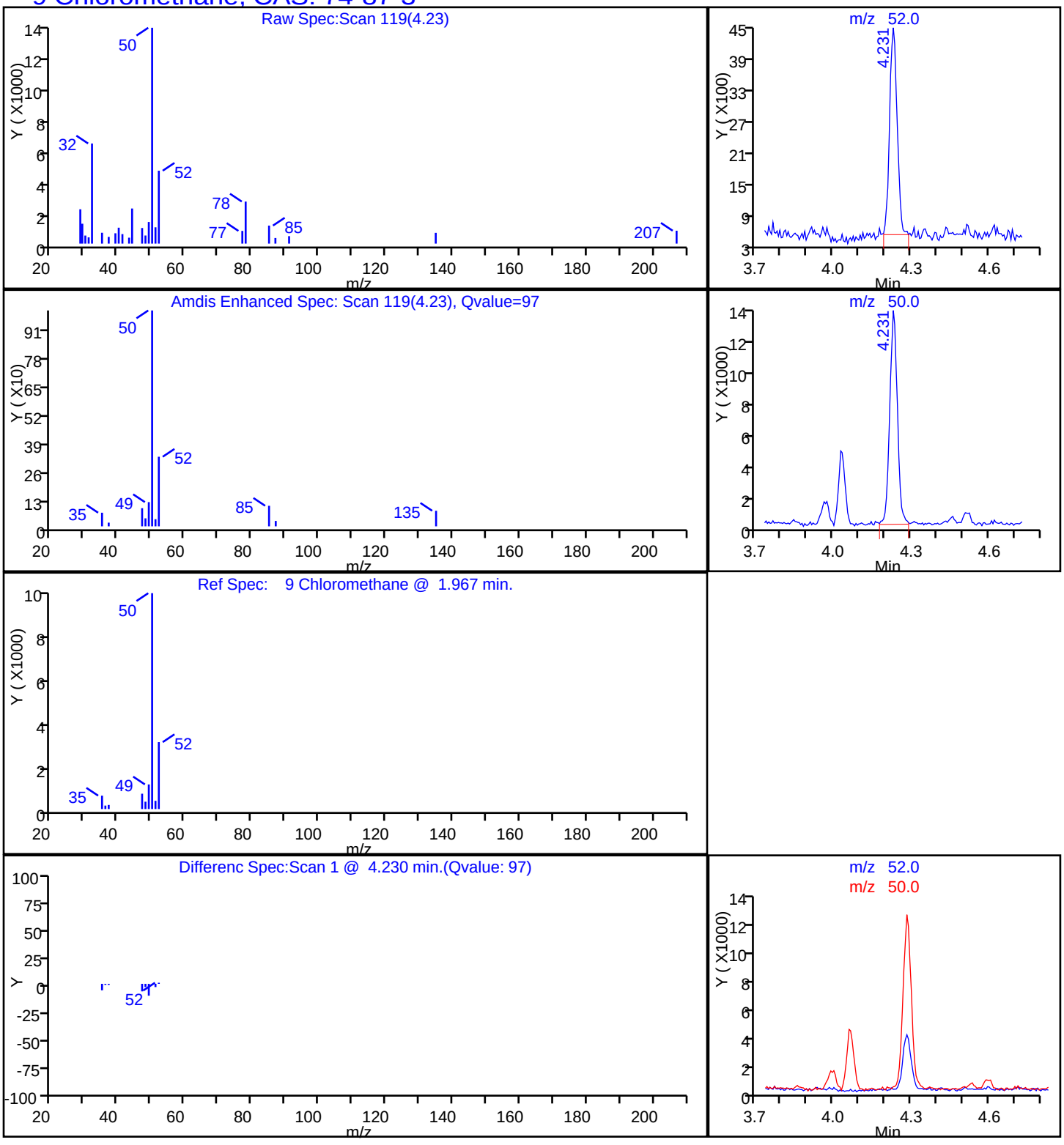
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

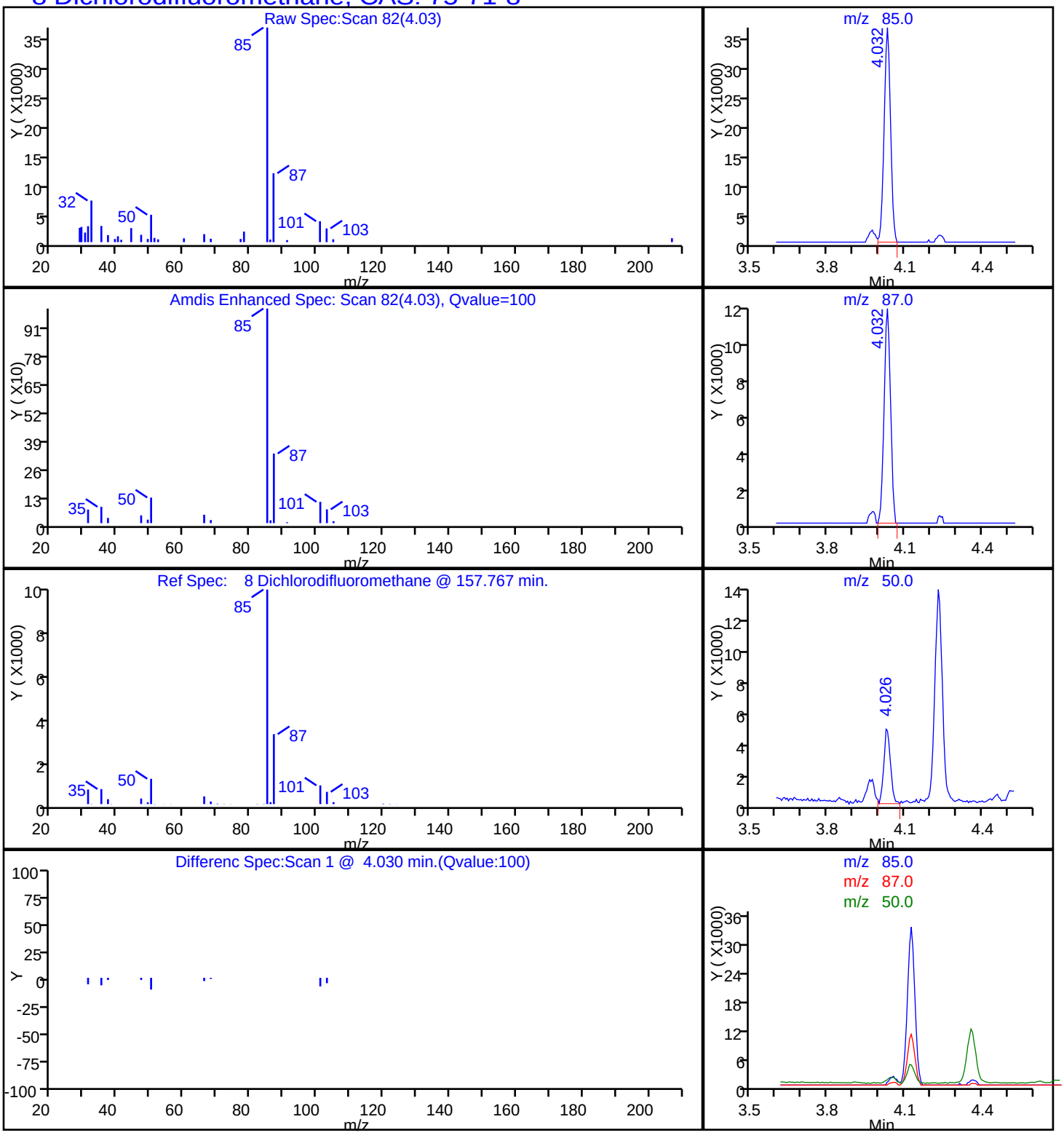
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



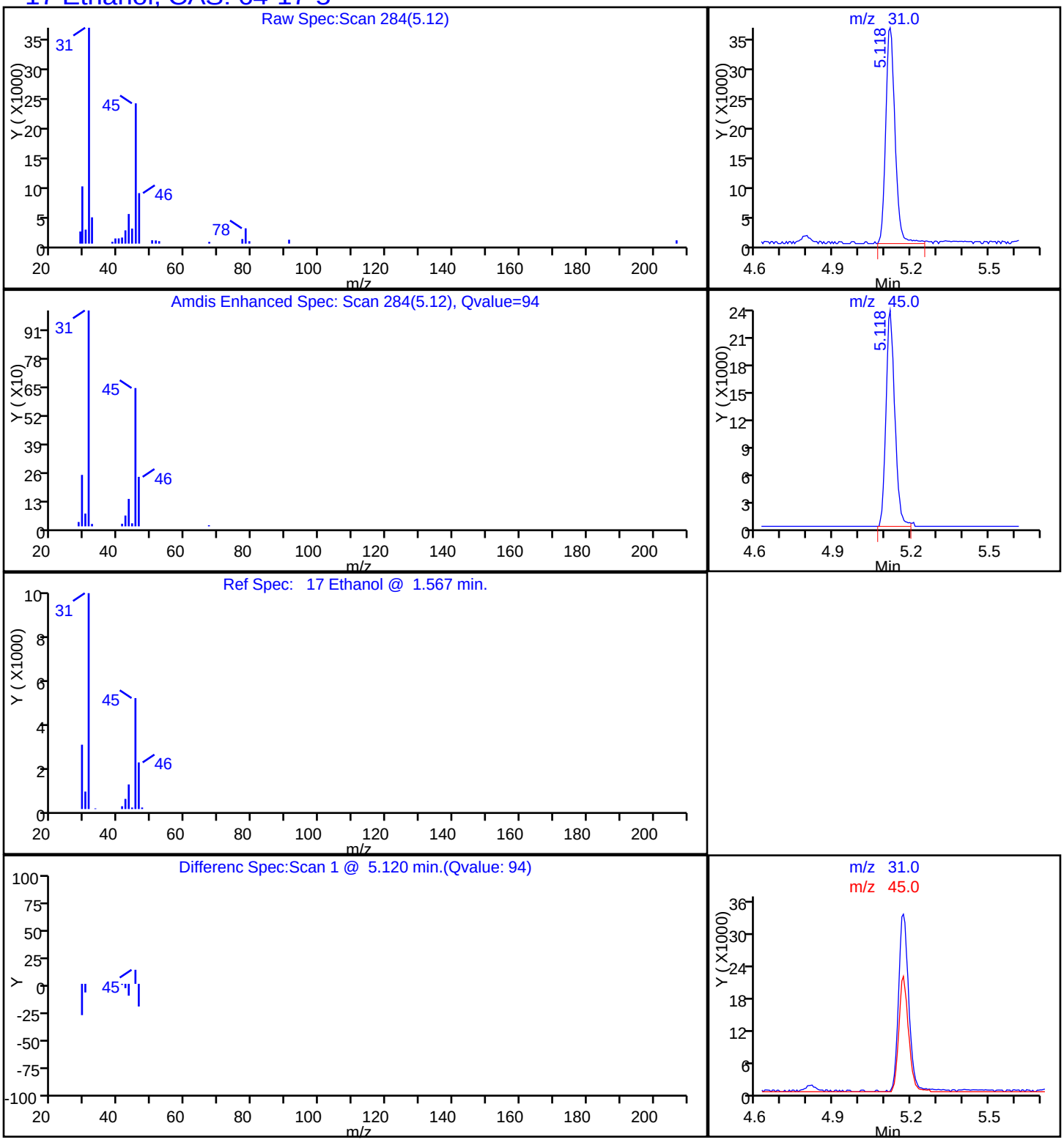
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19
Client ID:	AMB-1		
Operator ID:	403648	ALS Bottle#:	4 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



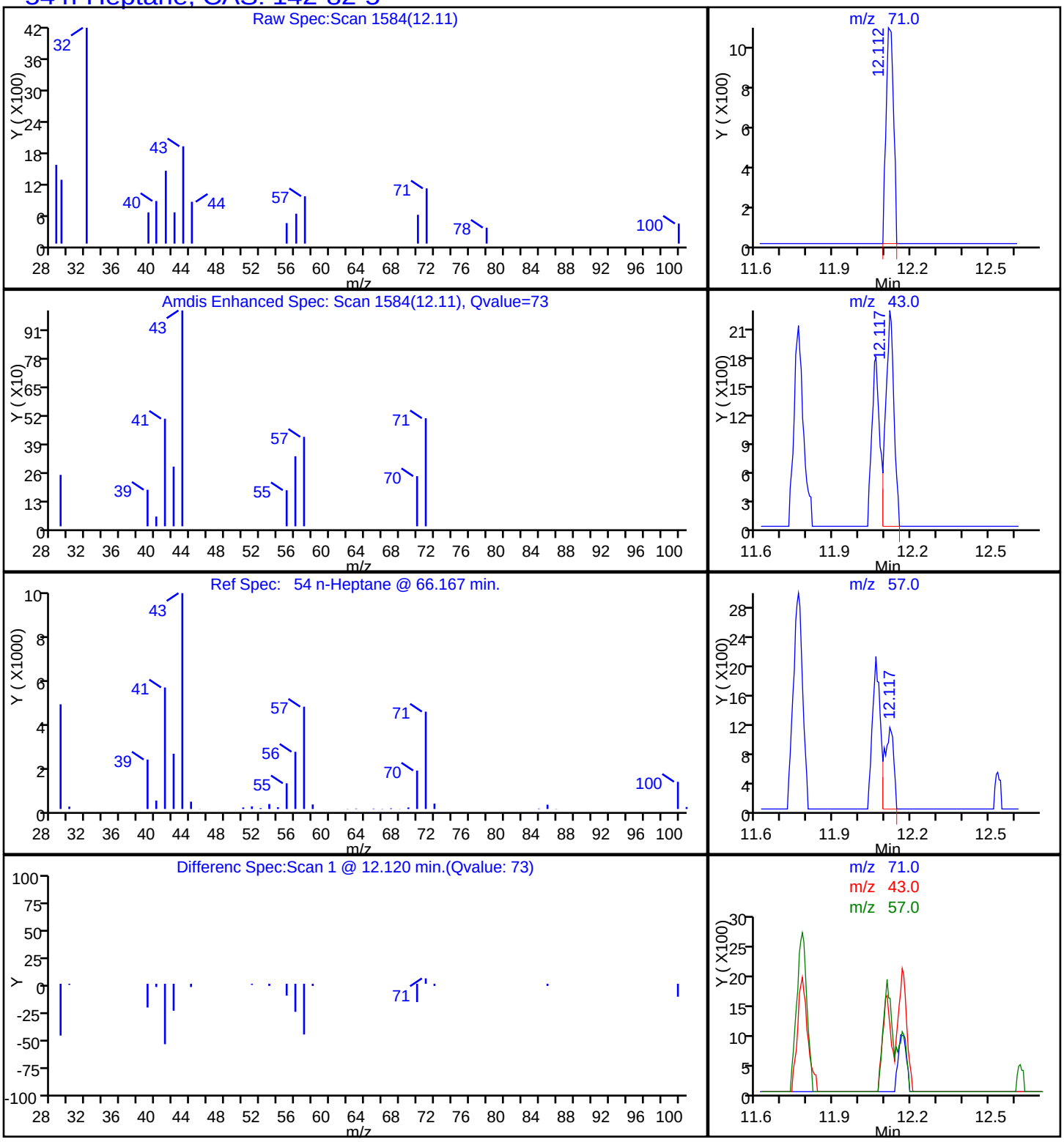
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19
Client ID:	AMB-1		
Operator ID:	403648	ALS Bottle#:	4 Worklist Smp#: 10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

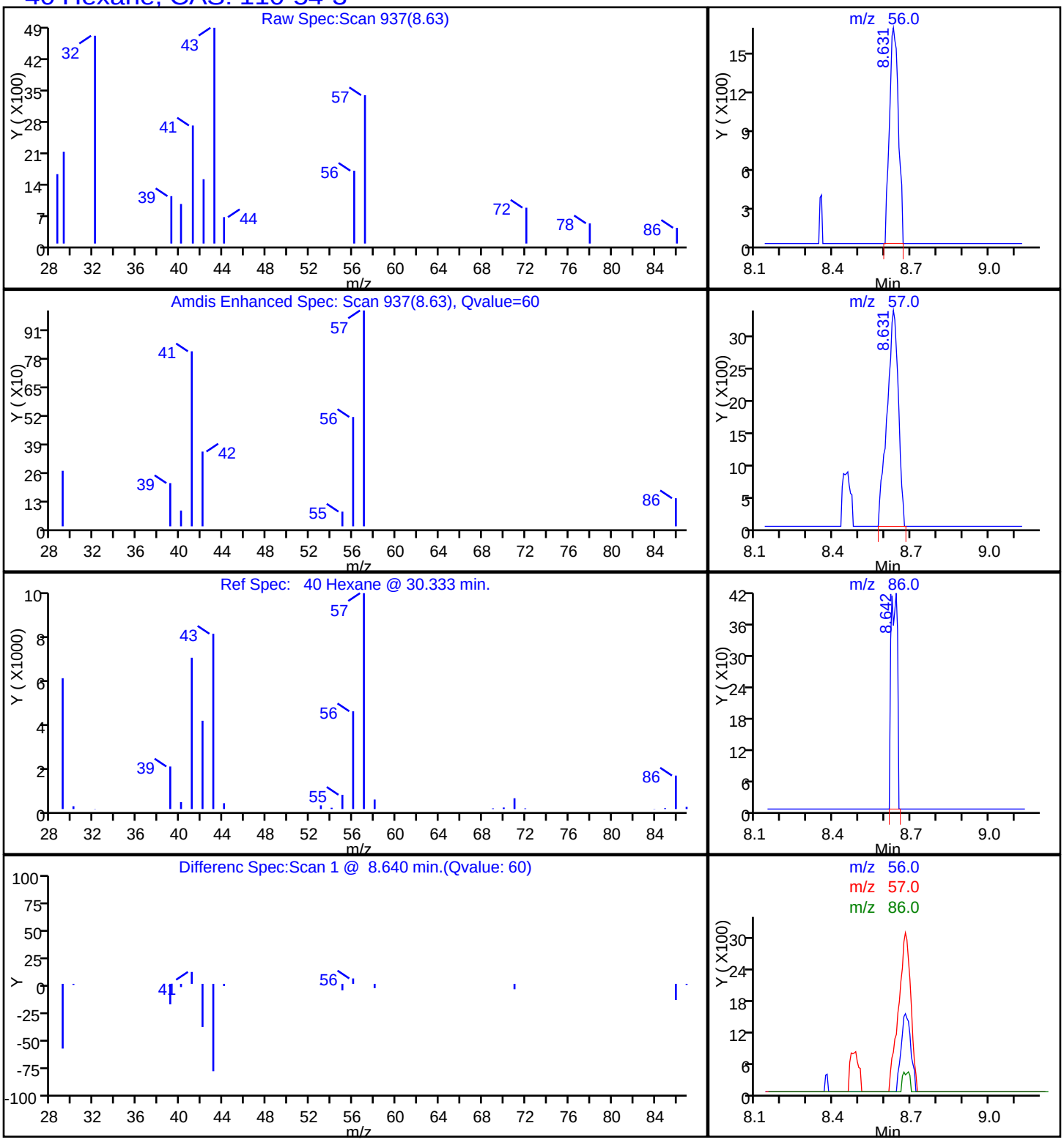
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3



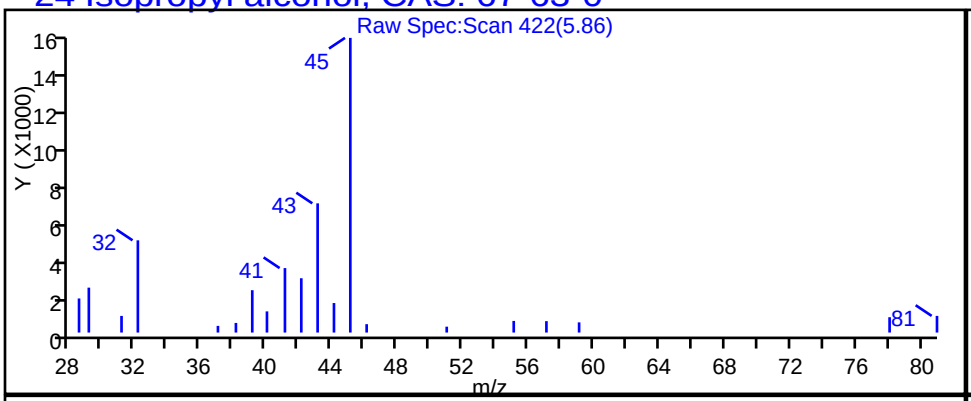
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

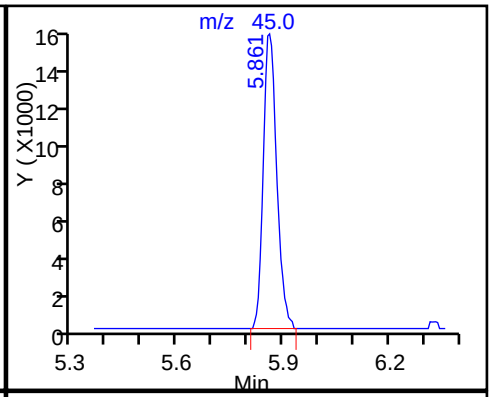
TestAmerica Knoxville

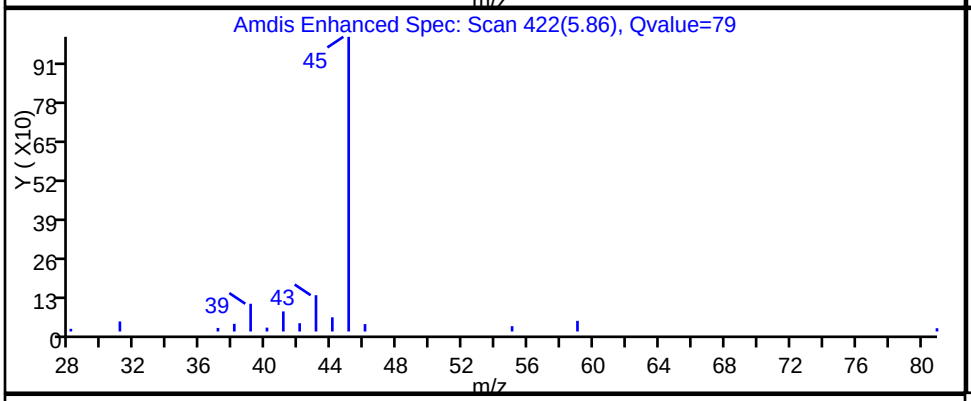
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

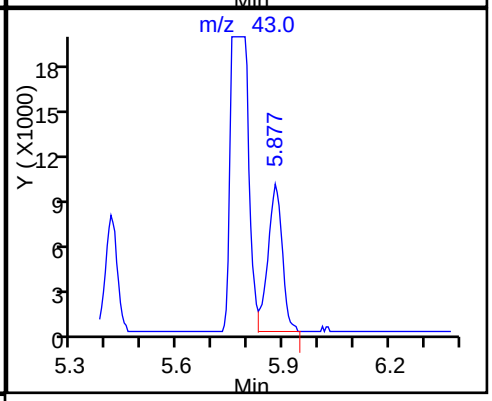
Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

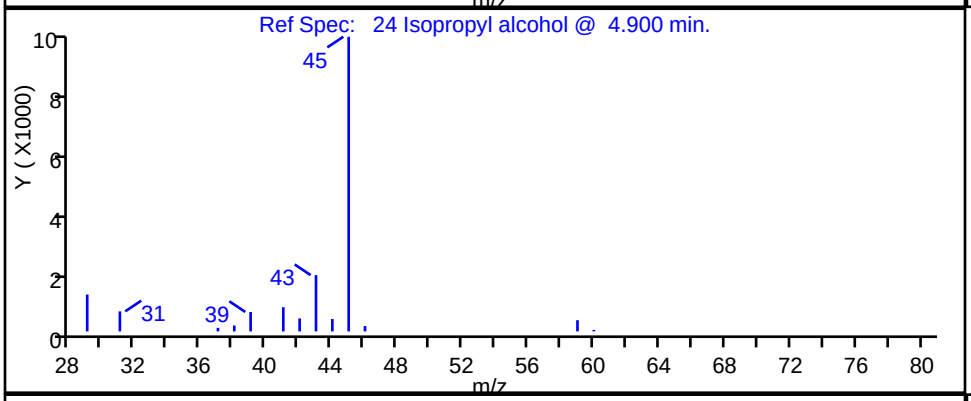
24 Isopropyl alcohol, CAS: 67-63-0

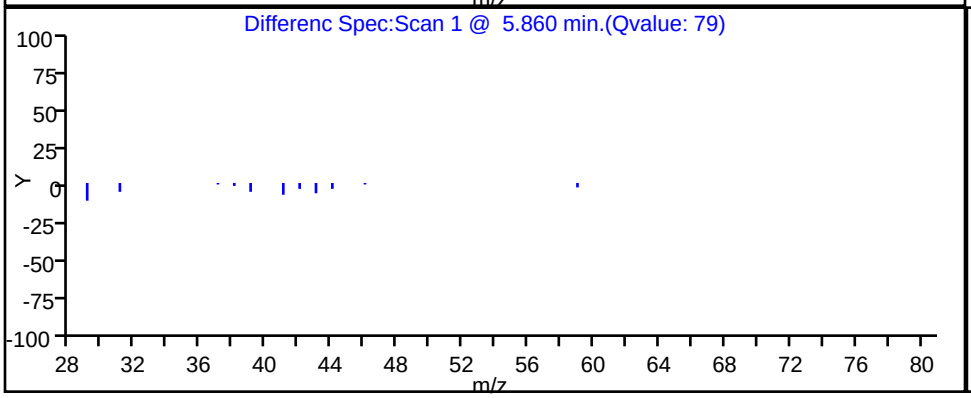


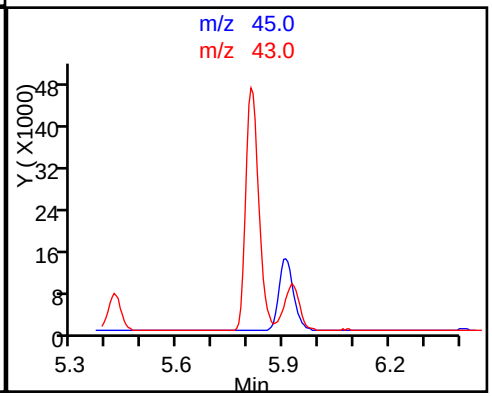












Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

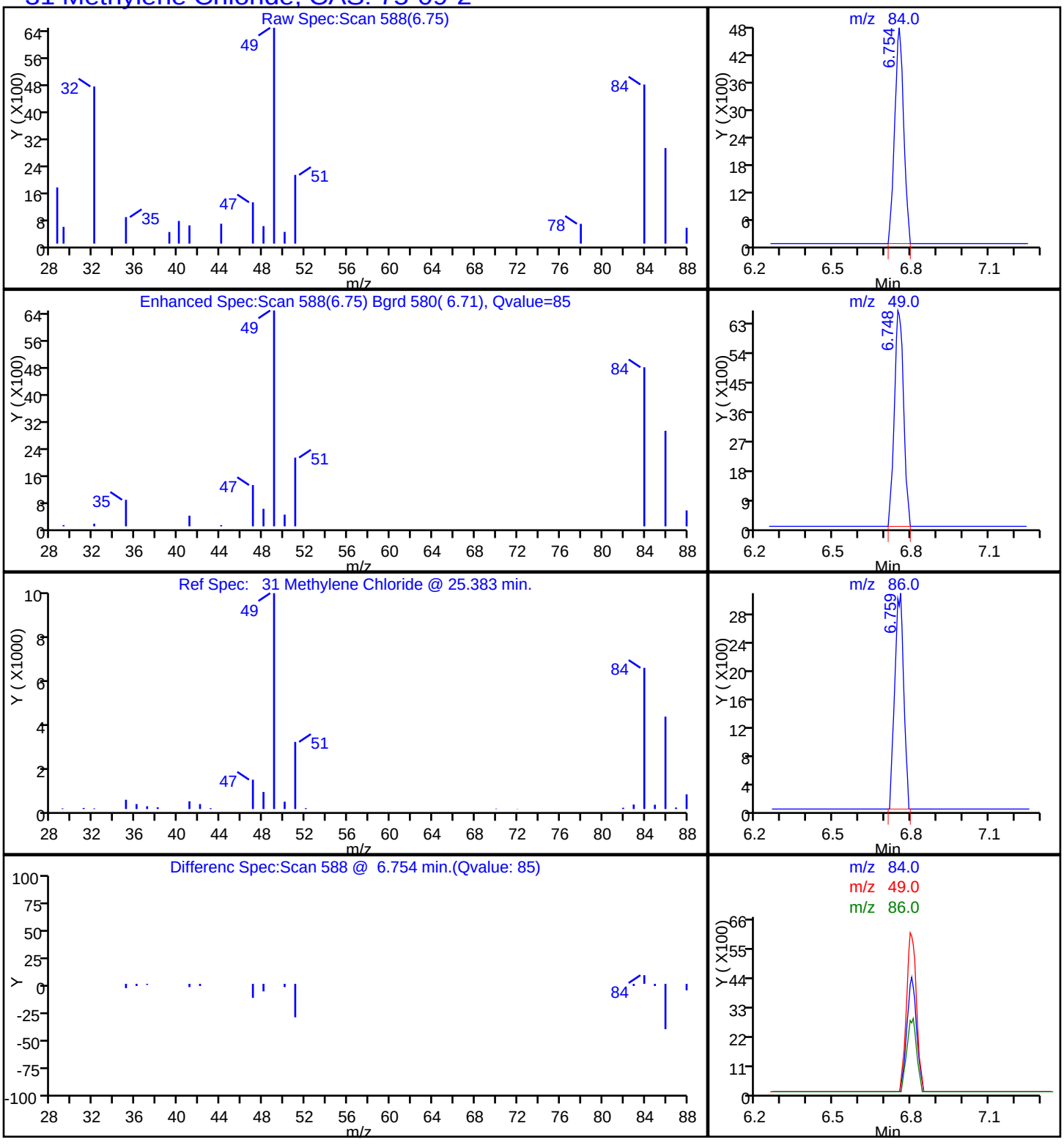
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



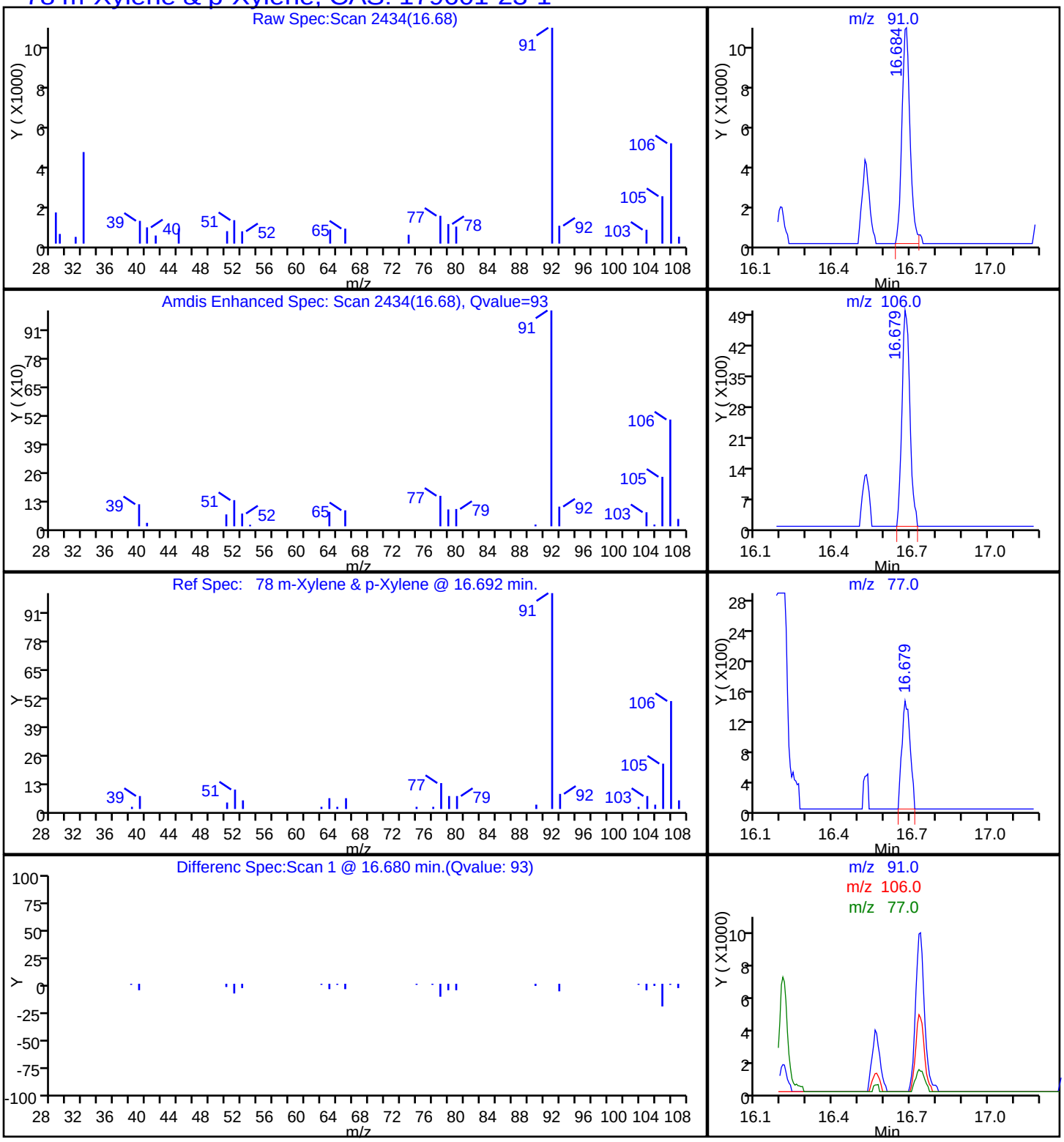
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



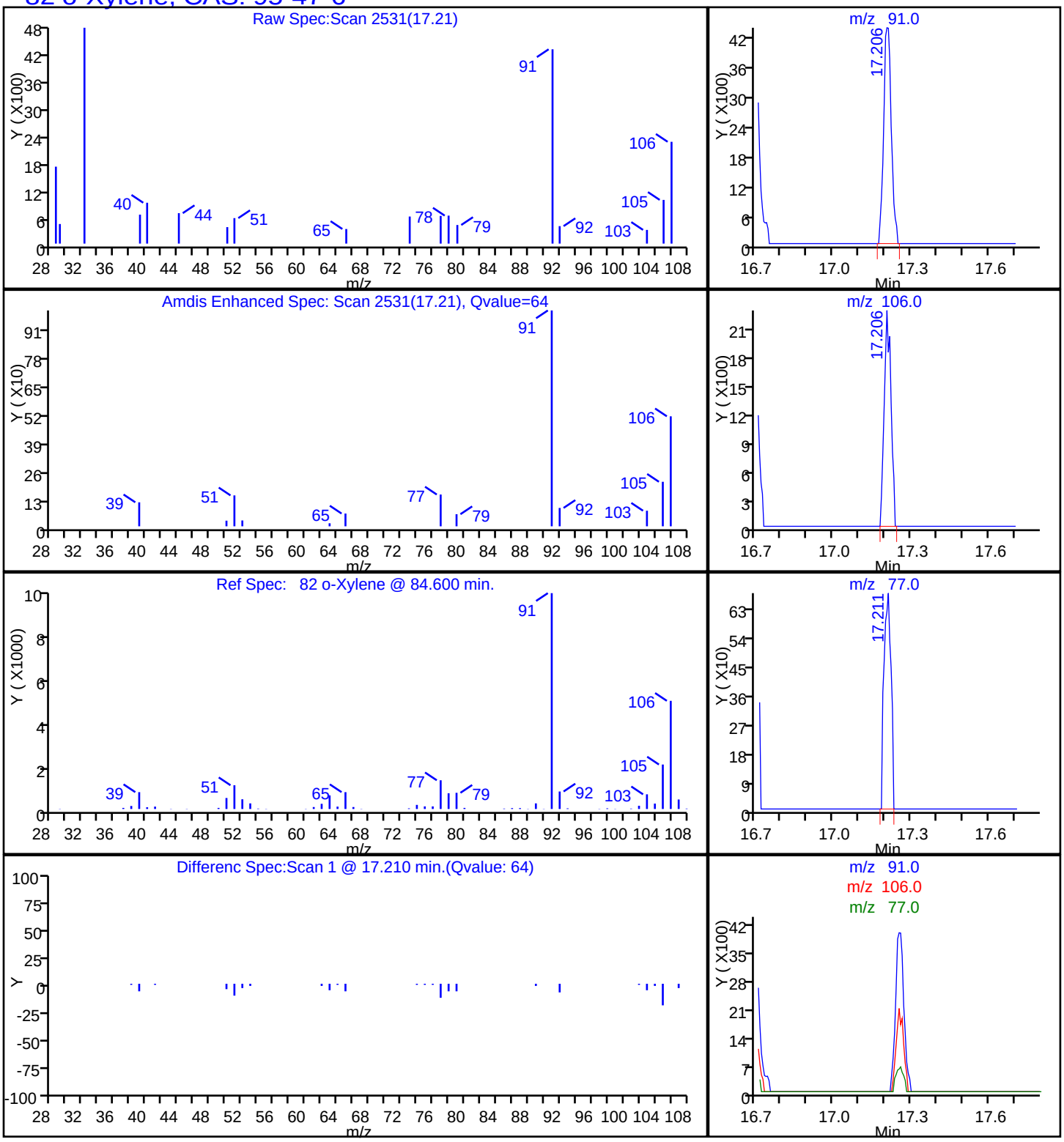
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



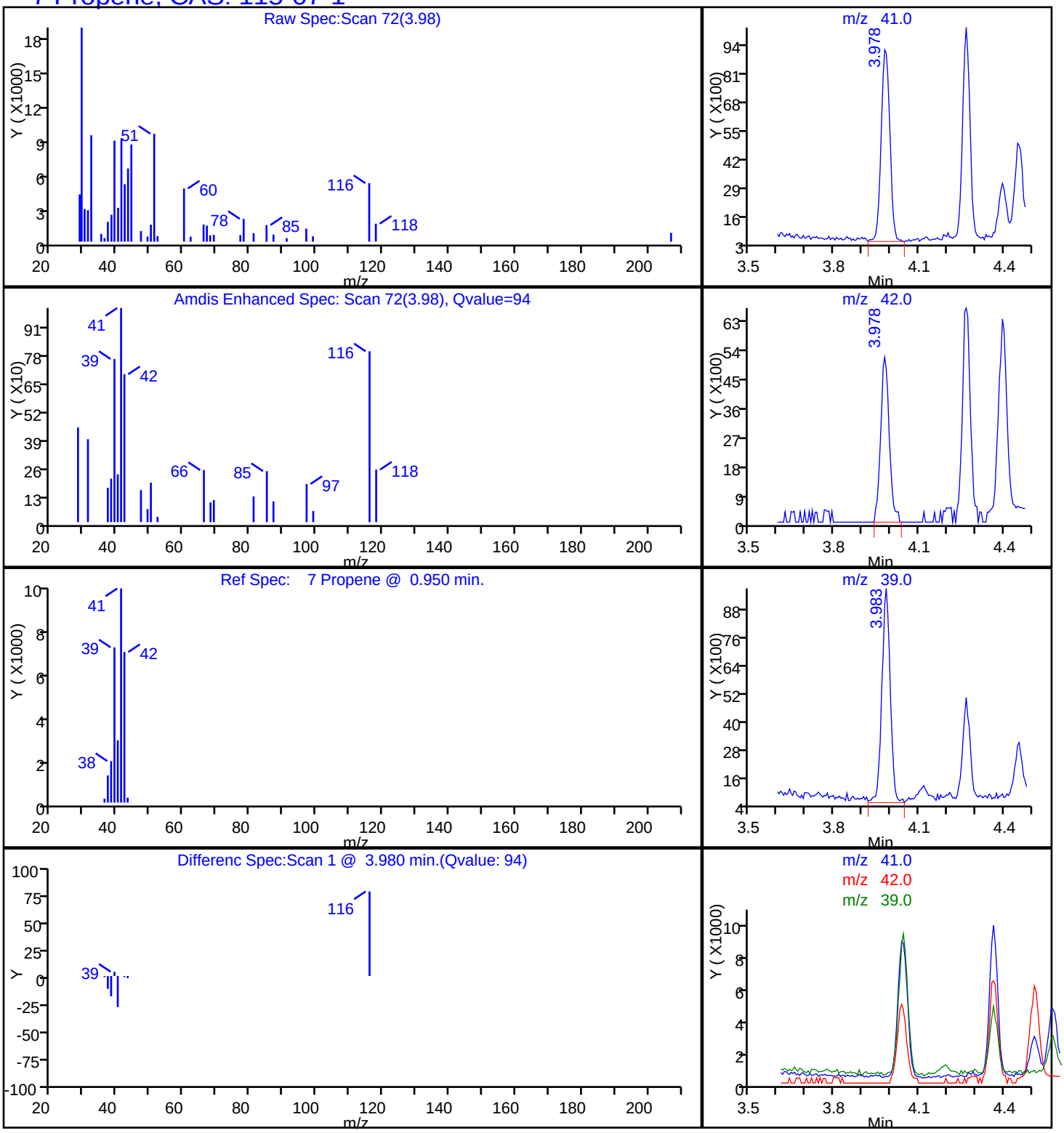
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

7 Propene, CAS: 115-07-1



Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30 Instrument ID: MJ

Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19

Client ID: AMB-1

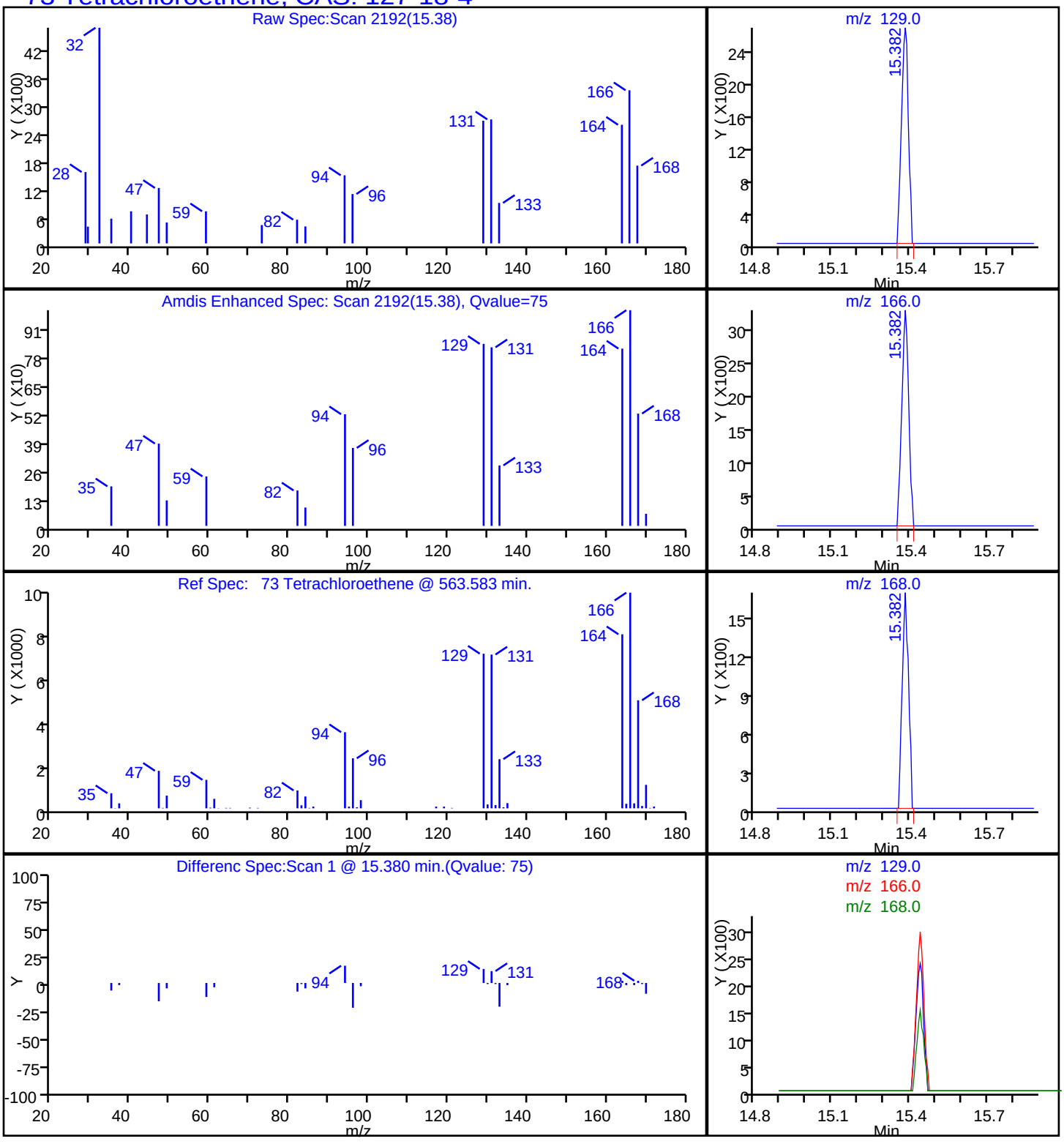
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



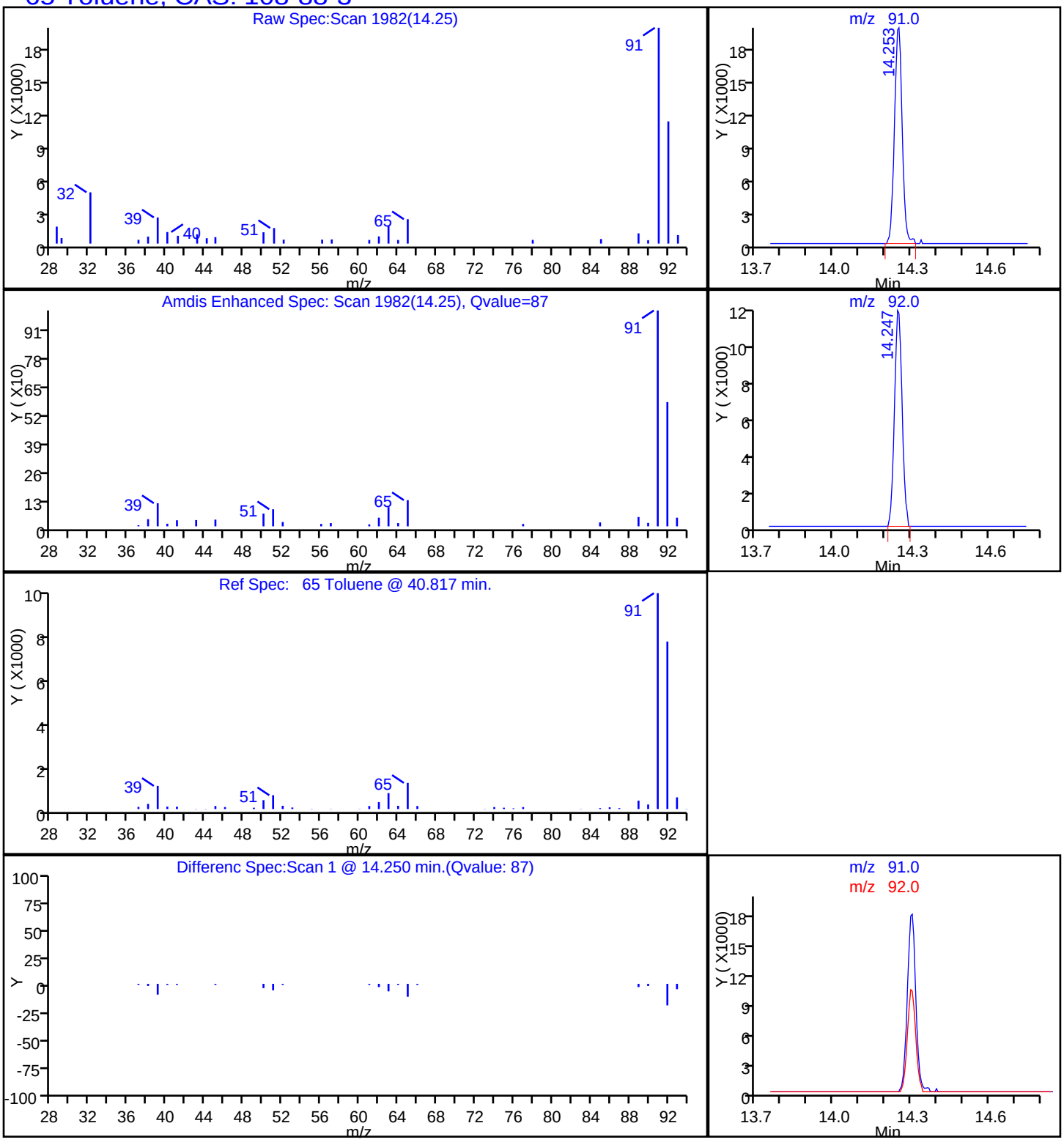
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



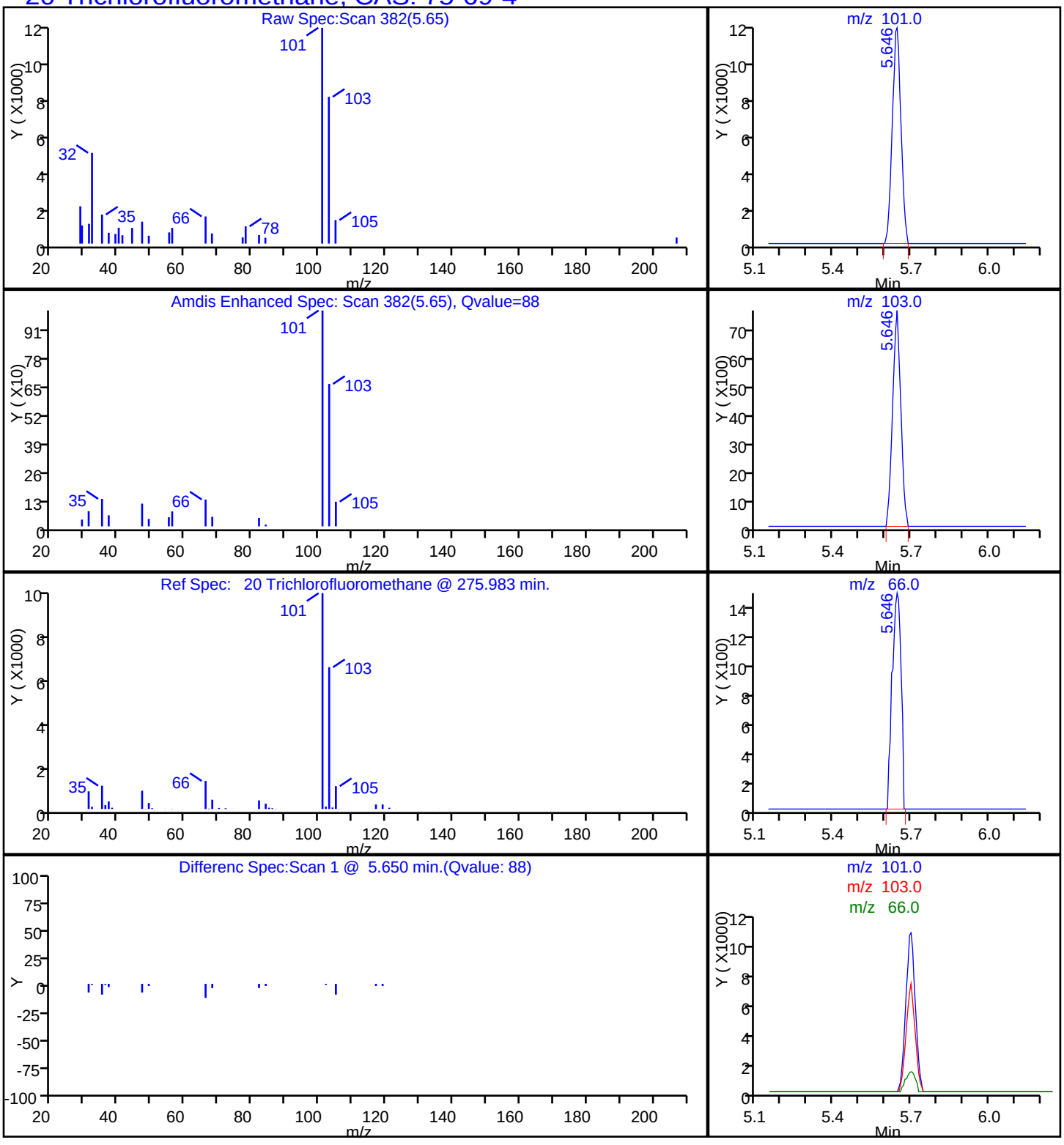
Report Date: 20-Mar-2014 12:41:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date:	19-Mar-2014 19:31:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-19	Lab Sample ID:	140-1063-19		
Client ID:	AMB-1				
Operator ID:	403648	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.042	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.22	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.32	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.10	J	0.50	0.045
67-64-1	Acetone	58.08	1.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.072	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.053	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.83	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.29	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.14	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.43	J cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.37		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.65	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	0.96	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.42	J	2.0	0.18
67-64-1	Acetone	58.08	4.1	J	12	3.3
71-43-2	Benzene	78.11	0.74		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	23		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.39	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.1	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.0	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.62	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	0.74	J cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20

Matrix: Air Lab File ID: JC19P105.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:06

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D
Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20
Client ID: AMB-3
Sample Type: Client
Inject. Date: 19-Mar-2014 20:25:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-20
Misc. Info.: J031914,TO15,,140-0000532-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:42:38 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:42:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.378	9.385	-0.007	90	343417	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.542	-0.007	94	1655946	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.193	16.201	-0.008	87	1371389	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.813	17.820	-0.007	90	883688	3.64	
7 Propene	41	3.977	3.973	0.004	60	18150	0.1724	
8 Dichlorodifluoromethane	85	4.025	4.032	-0.007	100	63130	0.1856	
9 Chloromethane	52	4.229	4.231	-0.002	100	8289	0.2145	
17 Ethanol	31	5.112	5.119	-0.007	95	133470	4.84	
19 2-Methylbutane	43	5.402	5.409	-0.007	89	18956	0.1300	
20 Trichlorofluoromethane	101	5.639	5.646	-0.007	88	25482	0.0853	
23 Acetone	58	5.768	5.770	-0.002	91	33366	0.6835	
24 Isopropyl alcohol	45	5.854	5.850	0.004	93	43036	0.3339	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.582	-0.002	54	5854	0.0283	
31 Methylene Chloride	84	6.747	6.754	-0.007	87	10618	0.1156	
39 2-Butanone (MEK)	72	8.598	8.589	0.009	81	2847	0.0876	
40 Hexane	56	8.630	8.637	-0.007	74	4039	0.0437	
48 Benzene	78	11.018	11.026	-0.008	89	26478	0.0932	
50 Carbon tetrachloride	117	11.045	11.047	-0.002	85	6726	0.0287	
53 Isooctane	57	11.755	11.763	-0.008	67	8084	0.0167	
54 n-Heptane	71	12.121	12.123	-0.002	73	2134	0.0212	
62 4-Methyl-2-pentanone (MIBK)	43	13.375	13.371	0.004	82	7129	0.0411	
65 Toluene	91	14.246	14.253	-0.007	88	37802	0.1486	
78 m-Xylene & p-Xylene	91	16.683	16.685	-0.002	83	12862	0.0567	

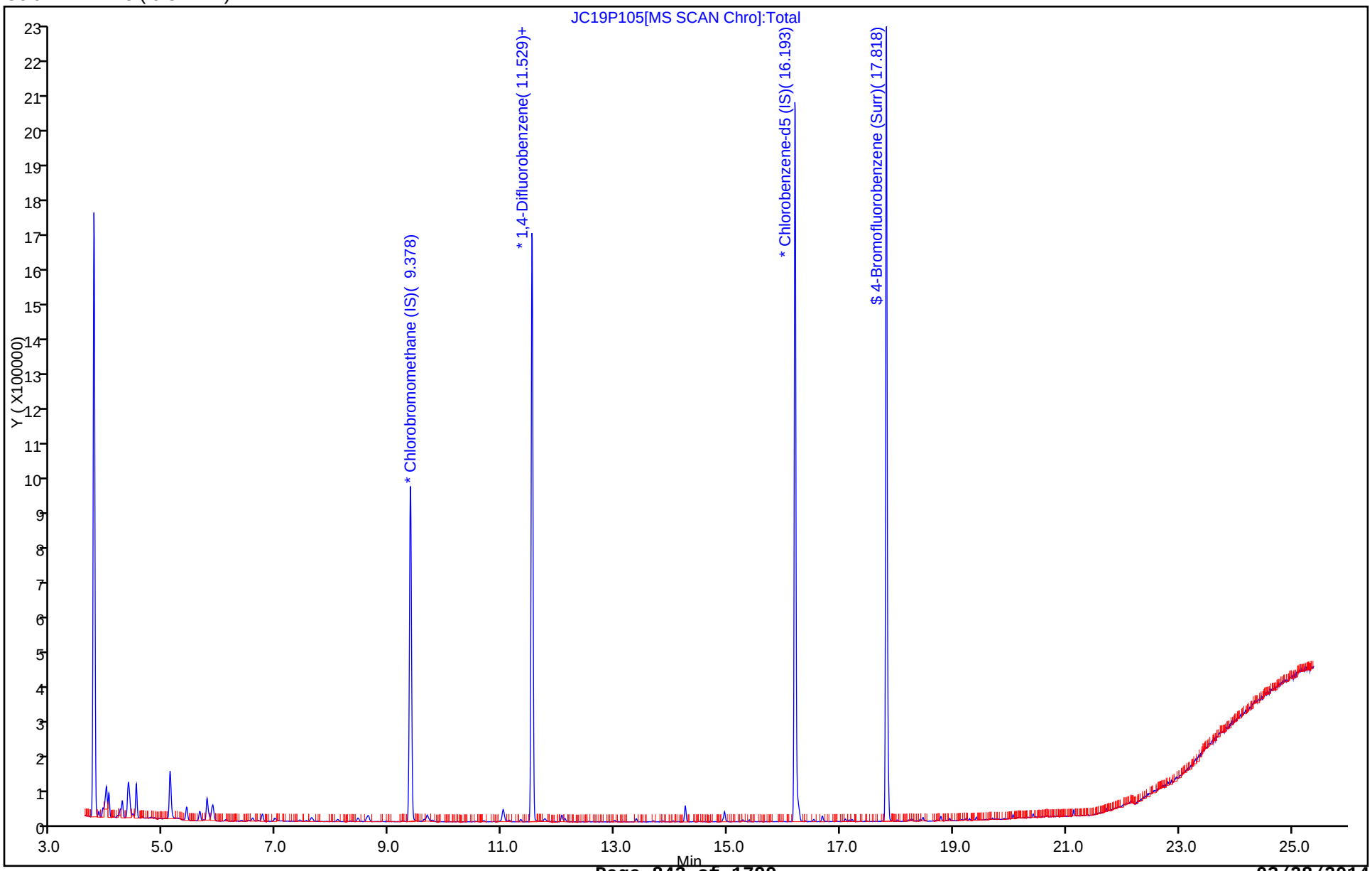
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20	Worklist Smp#:	11
Client ID:	AMB-3				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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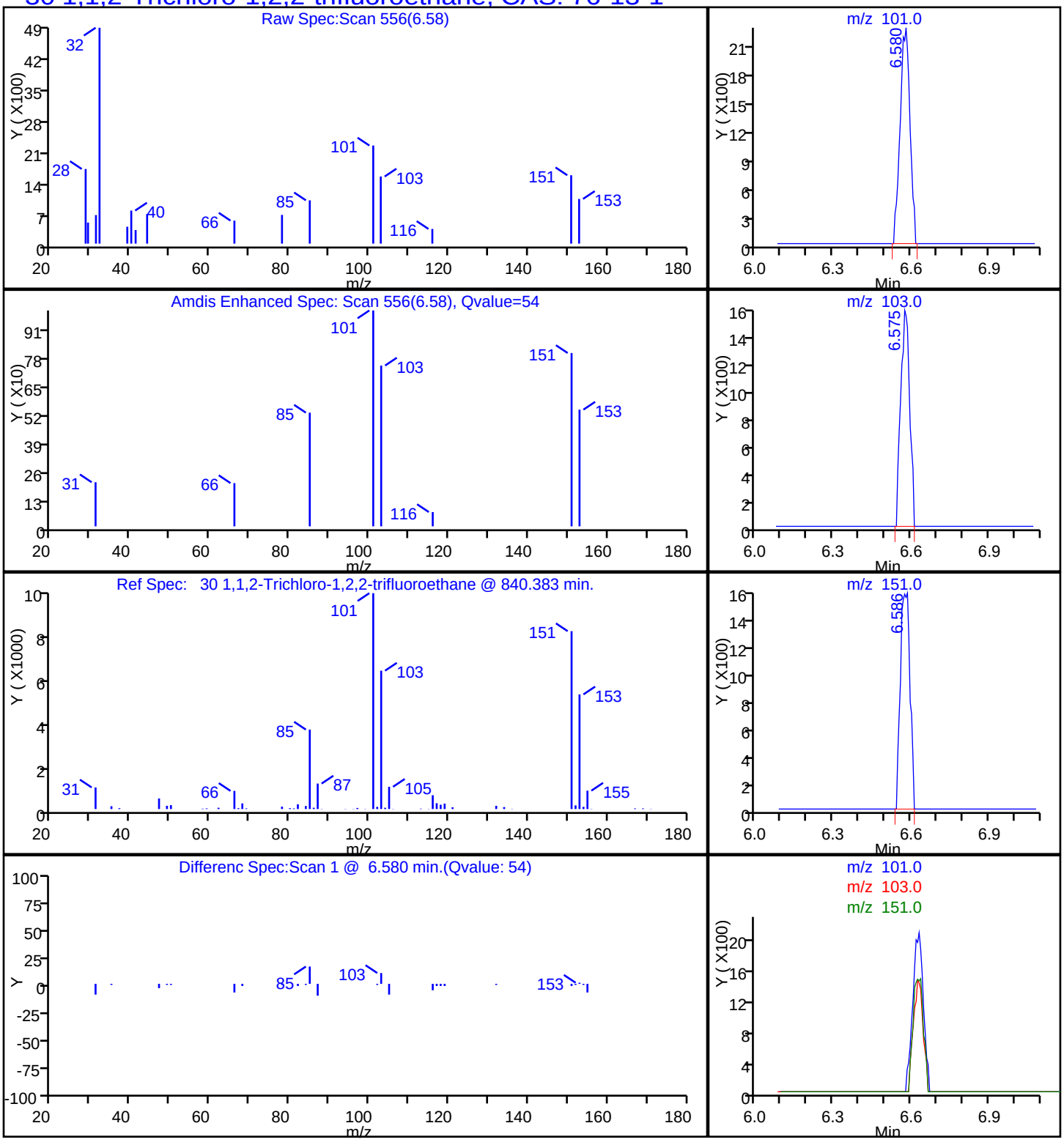
Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ
Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20
Client ID: AMB-3
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



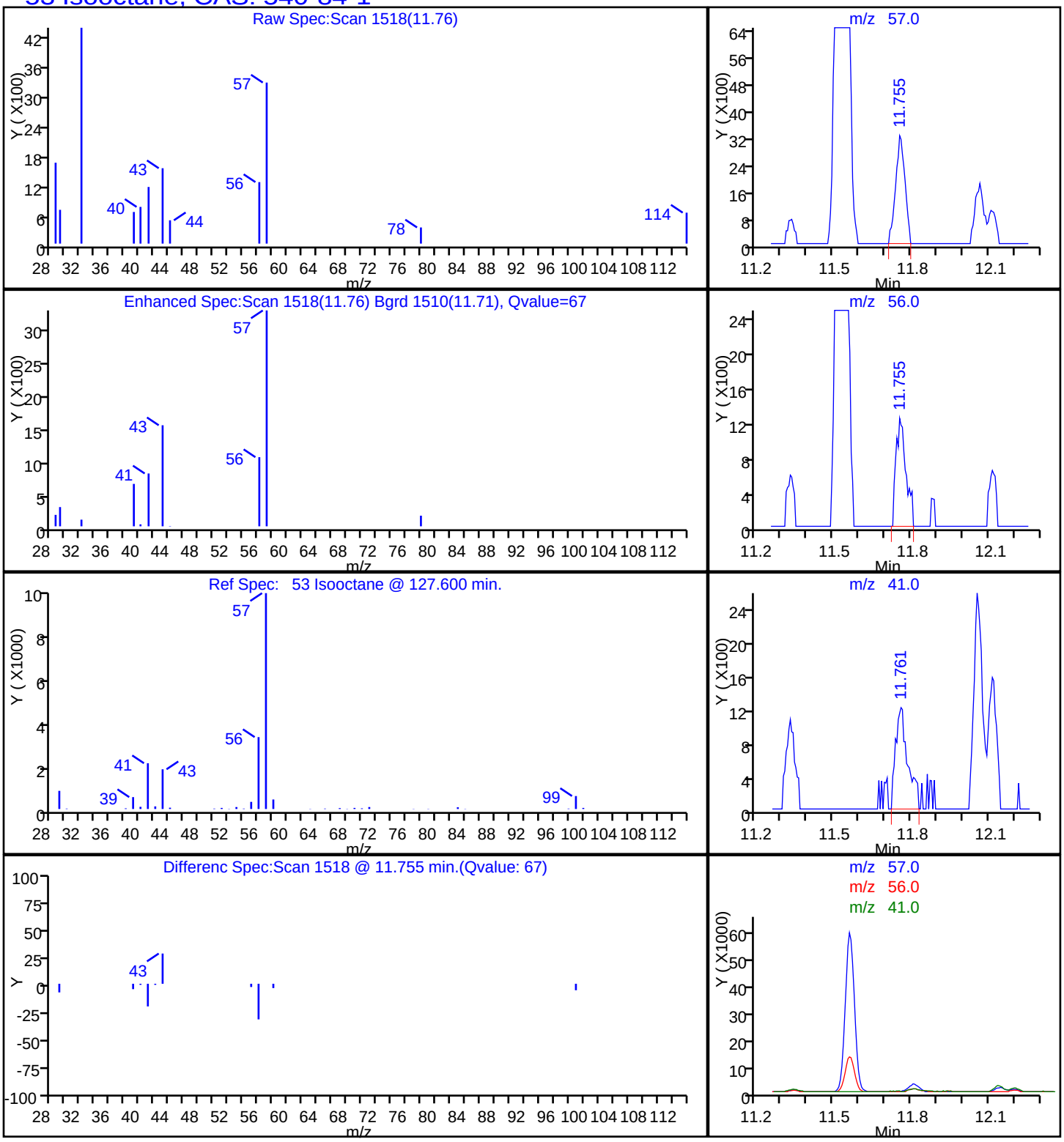
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20		
Client ID:	AMB-3				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

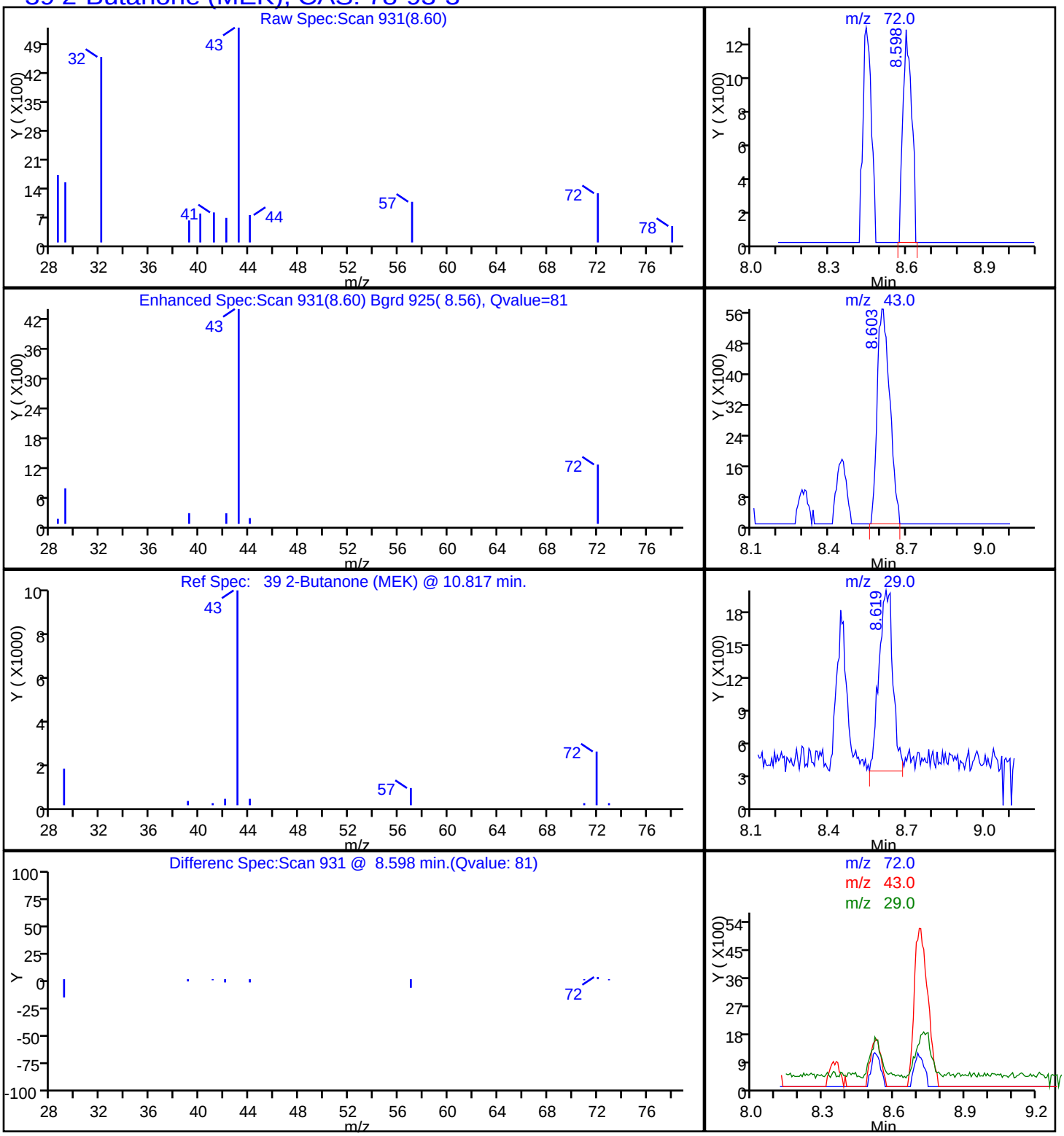
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

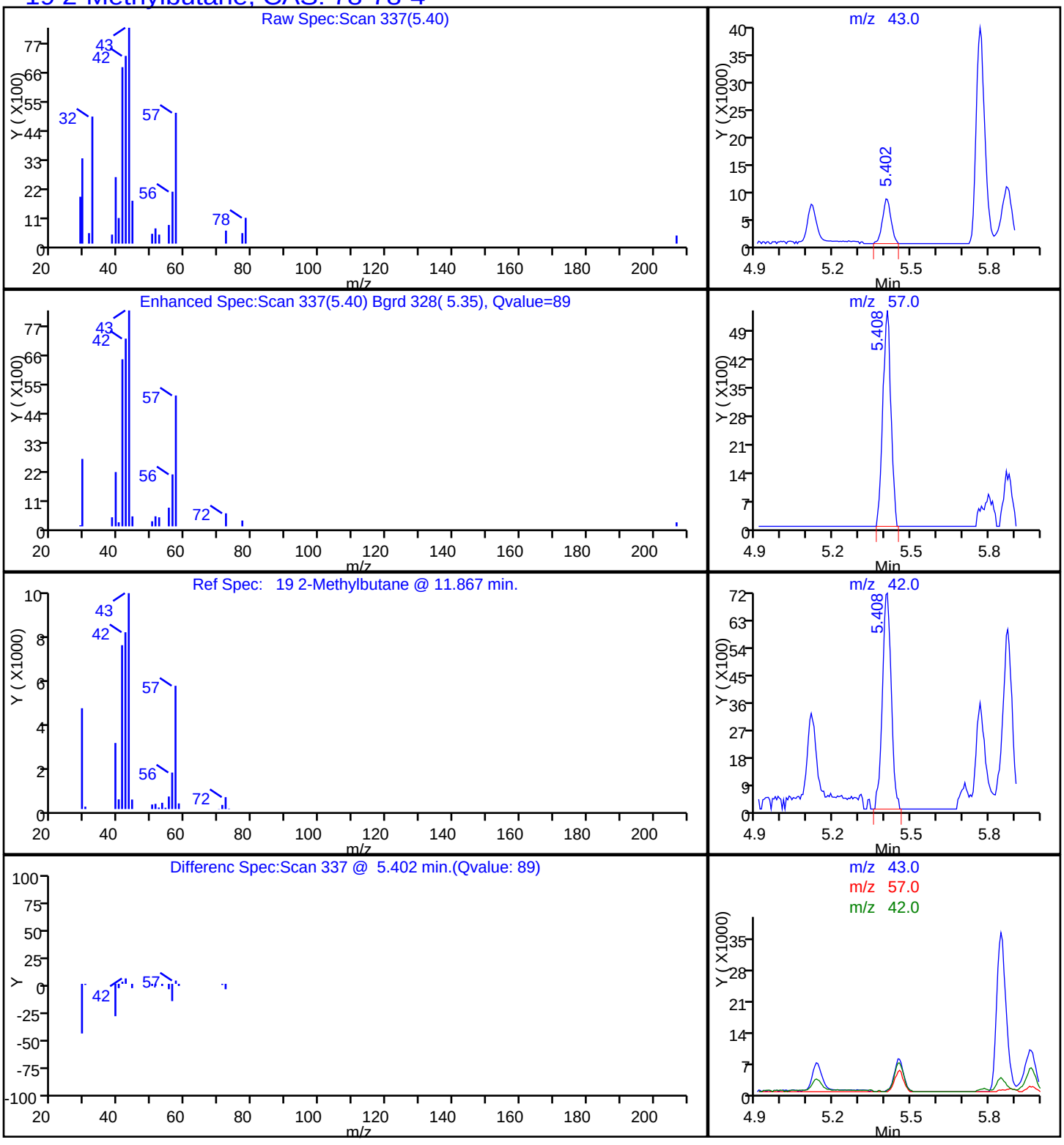
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

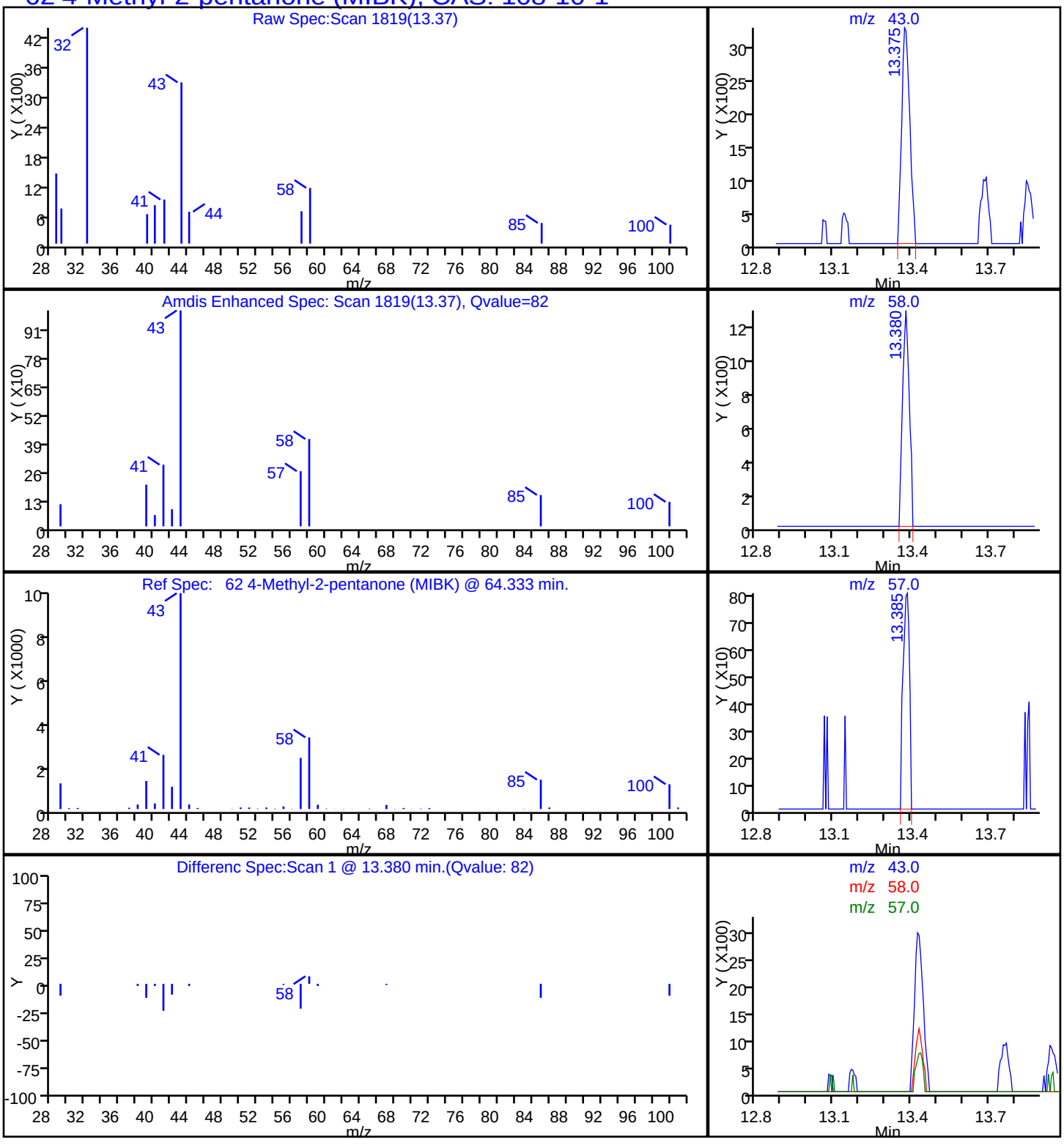
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



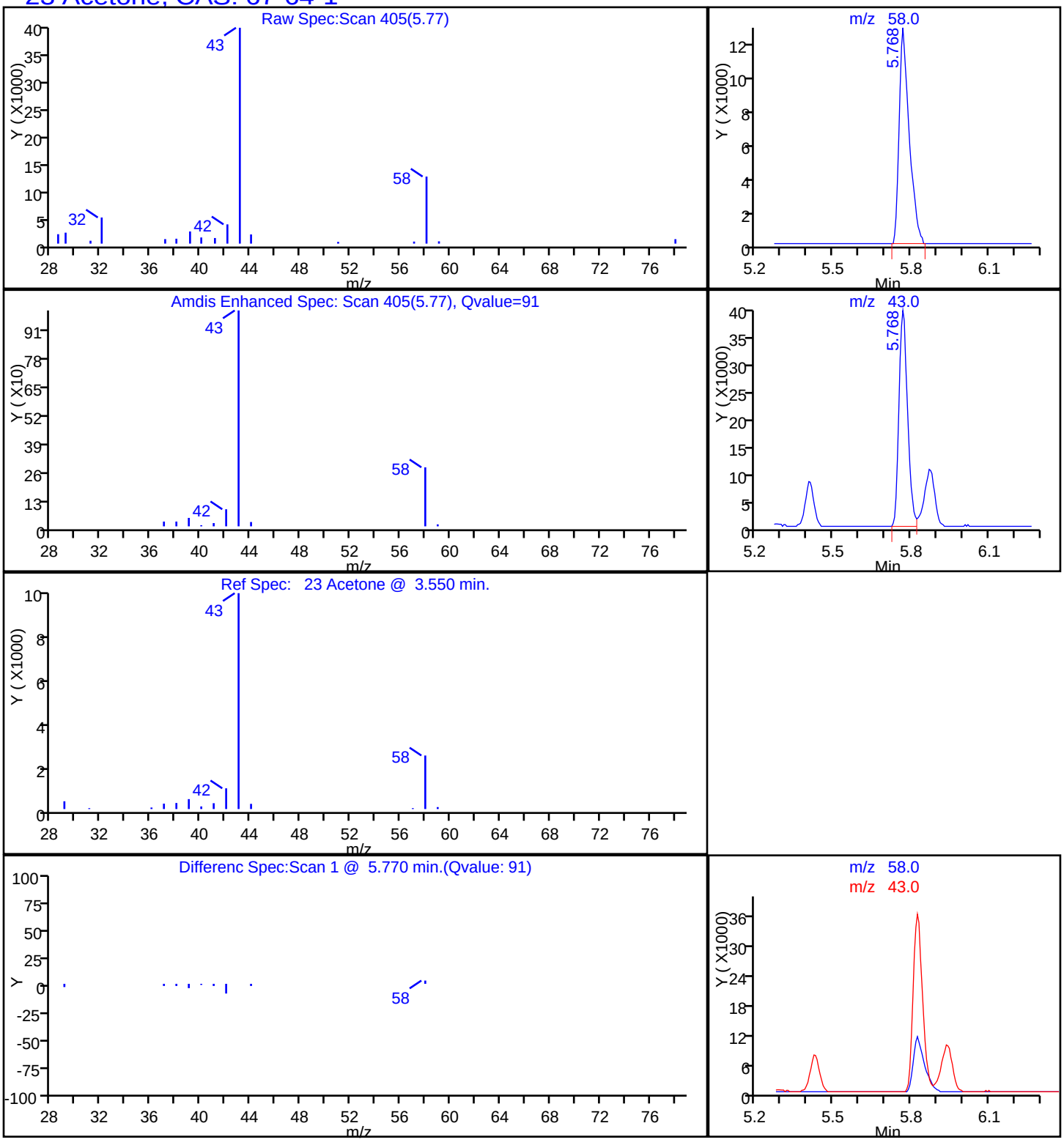
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1

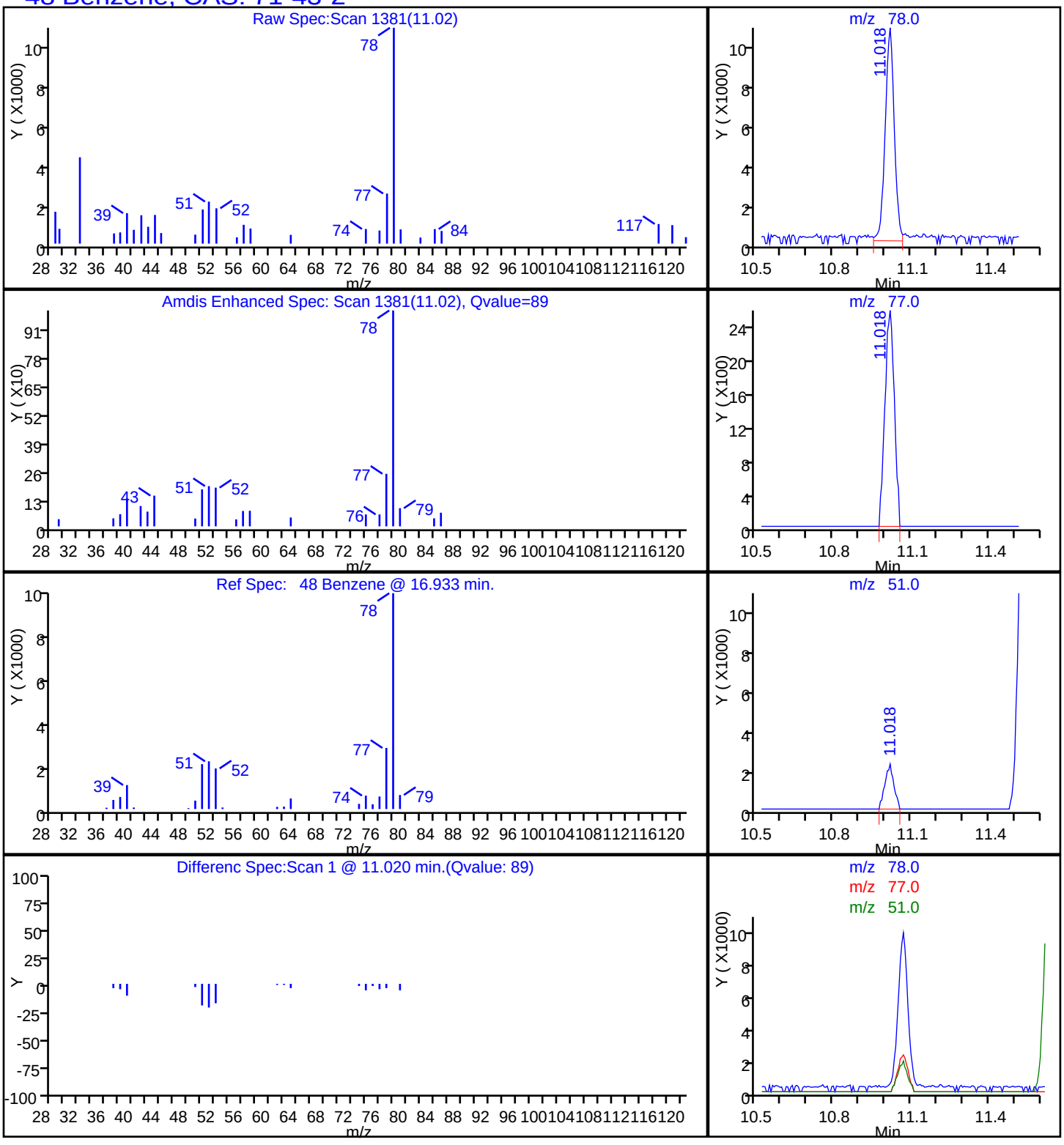


Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D		
Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



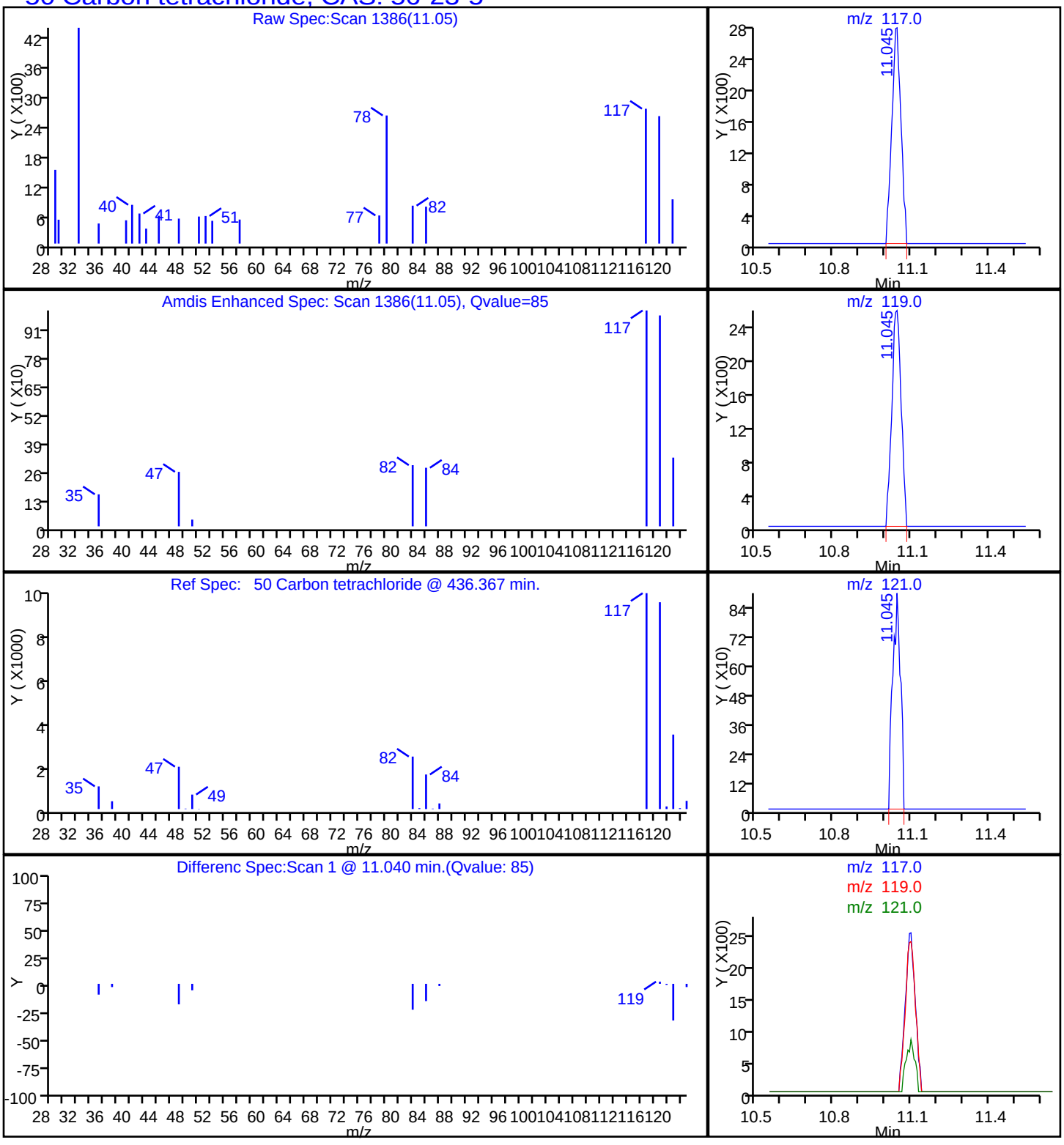
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20		
Client ID:	AMB-3				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

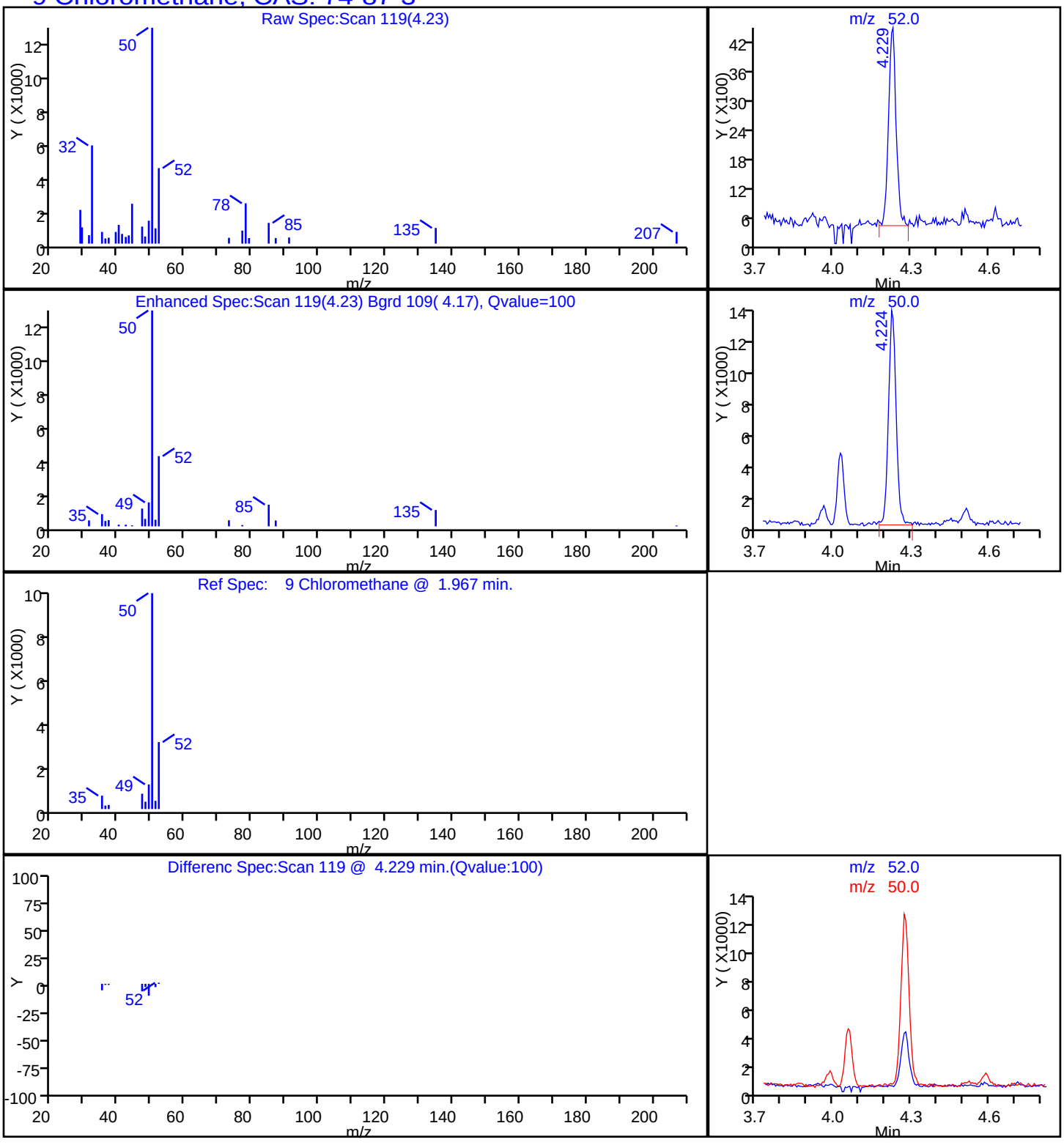
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



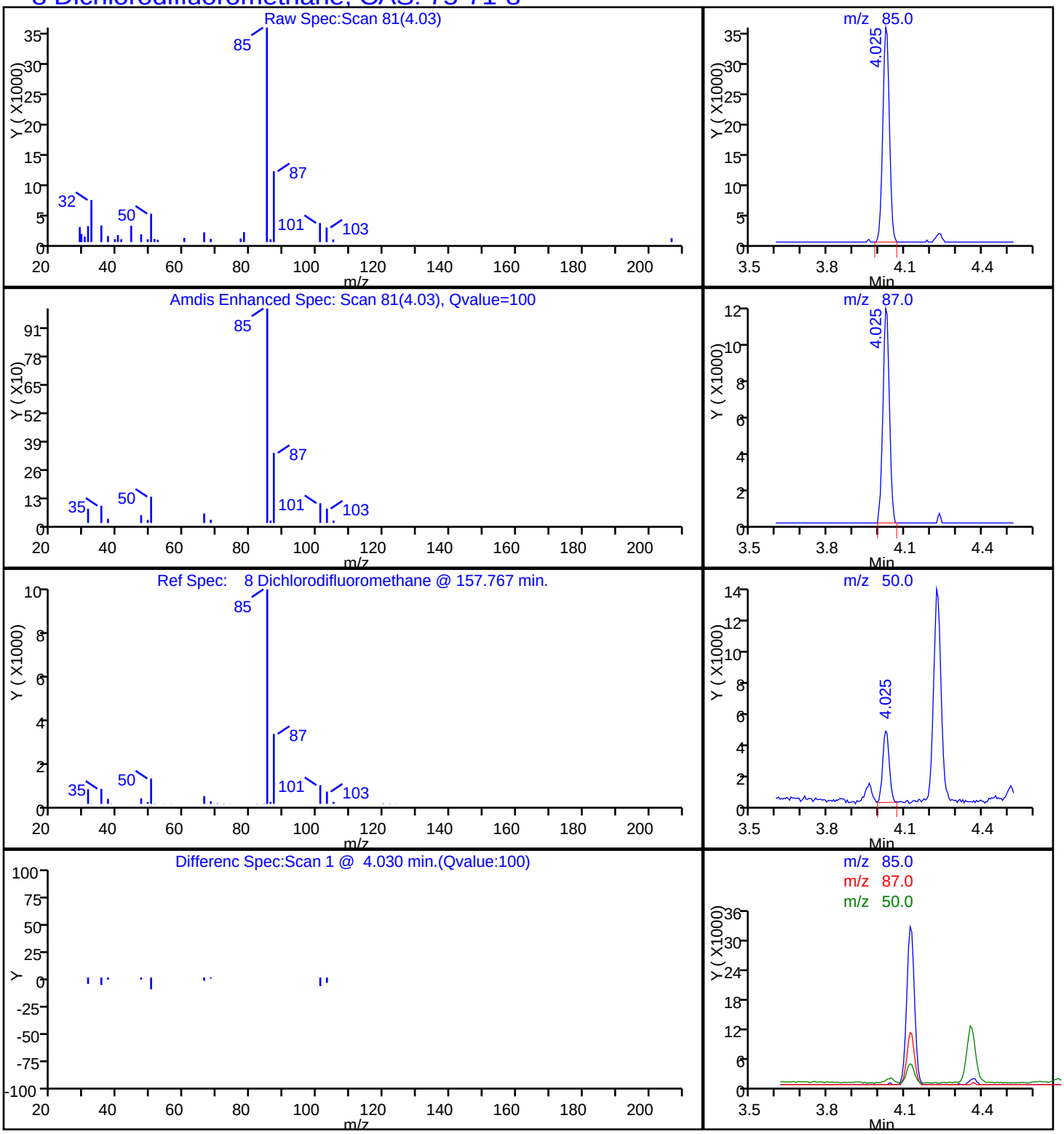
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



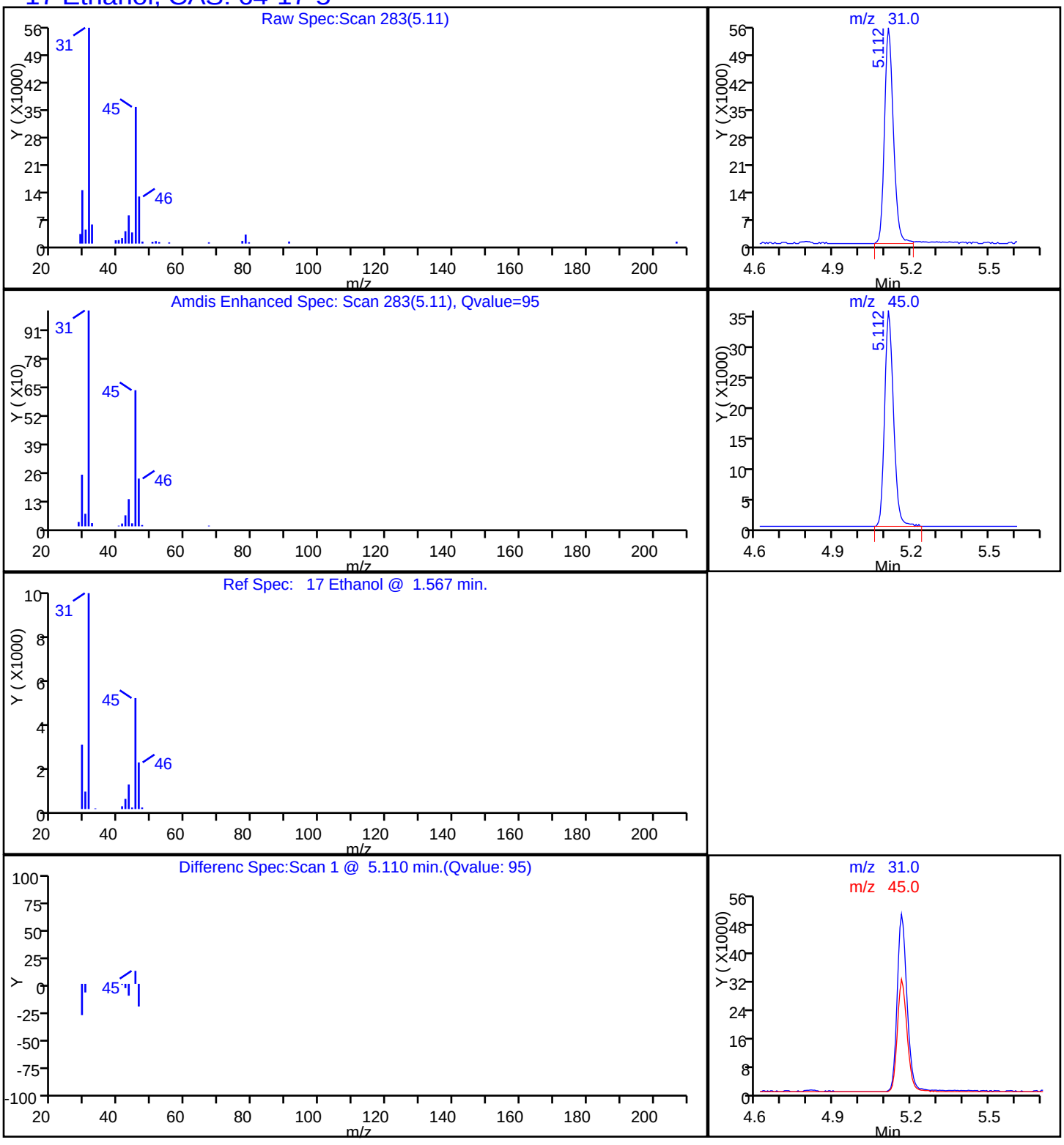
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



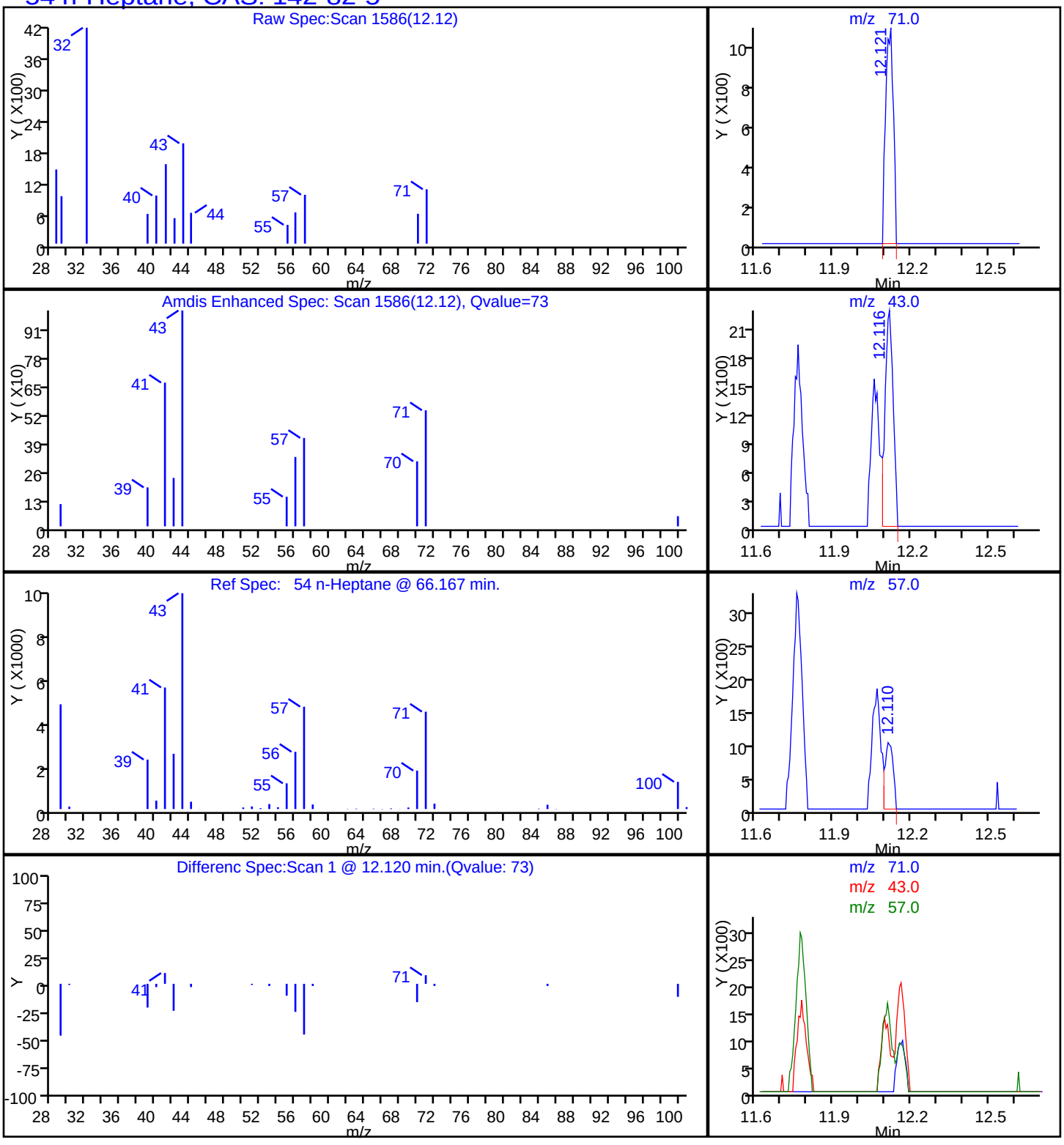
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

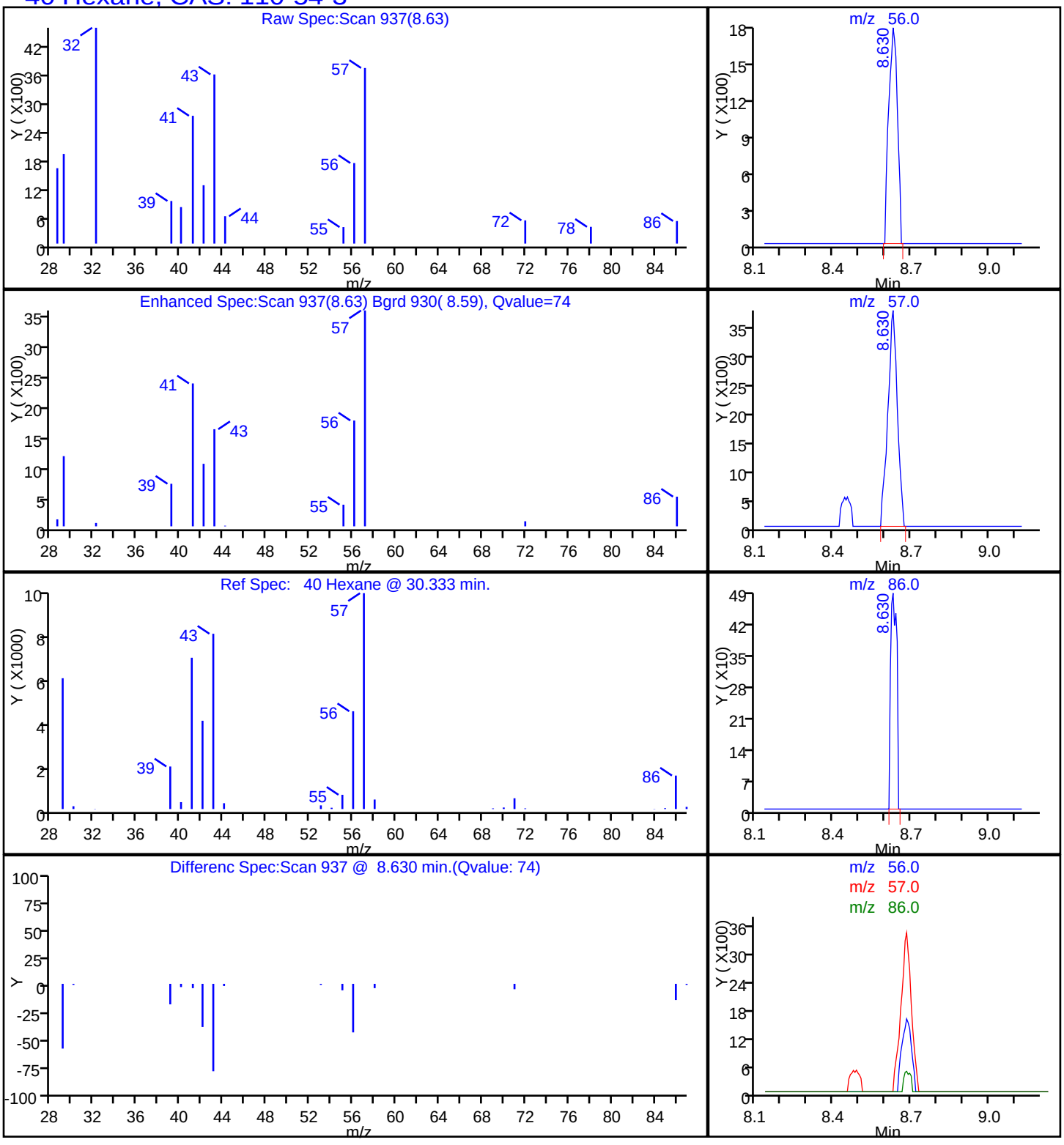
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

40 Hexane, CAS: 110-54-3



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

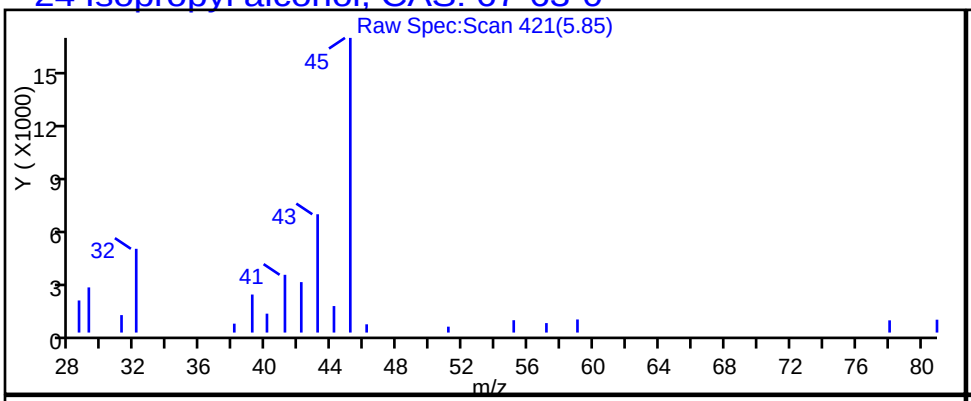
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

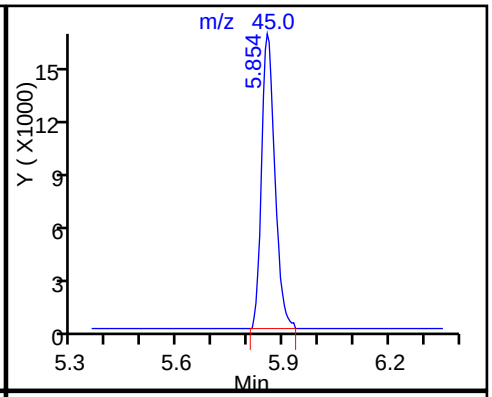
Purge Vol: 500.000 mL Dil. Factor: 1.0000

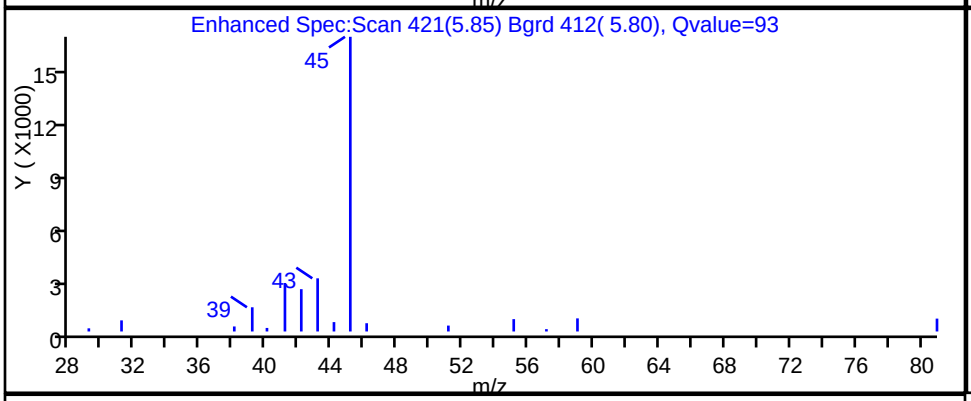
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

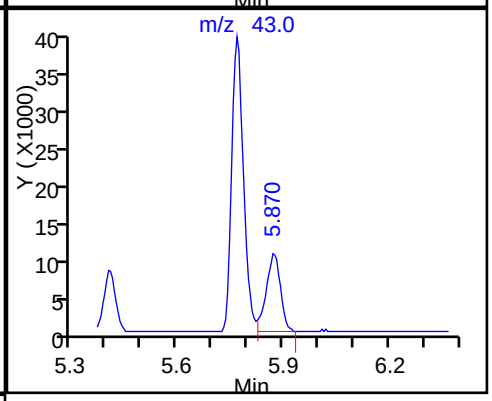
Column: RTX-5 (0.32 mm) Detector MS SCAN

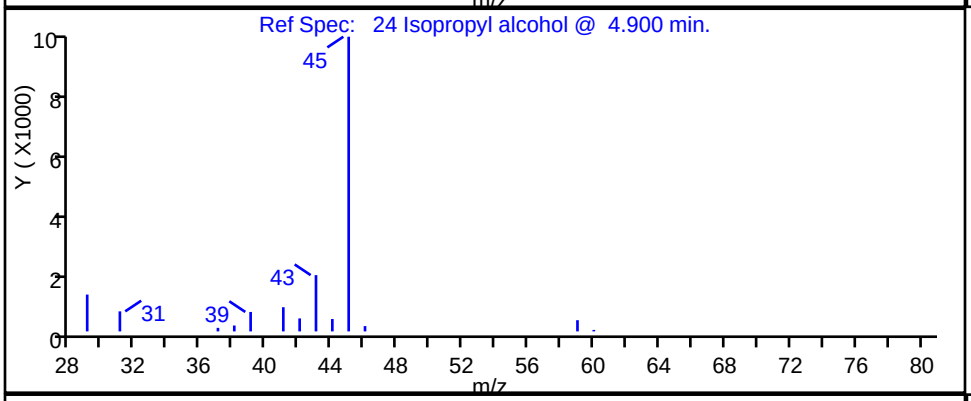
24 Isopropyl alcohol, CAS: 67-63-0

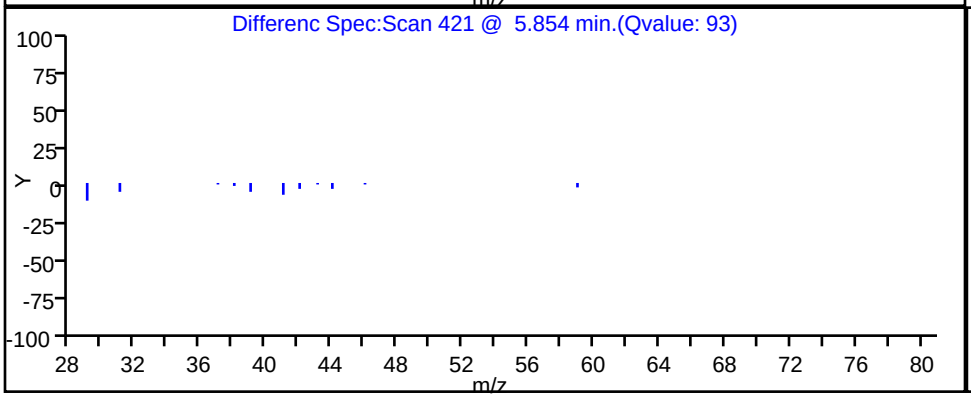


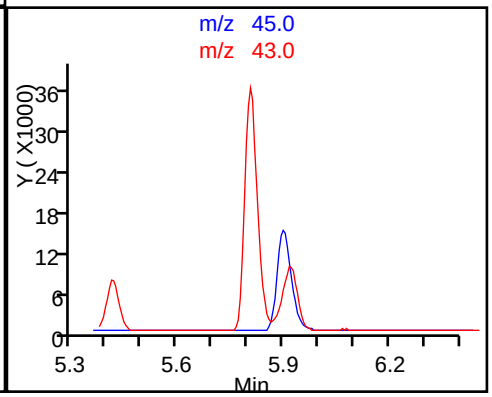












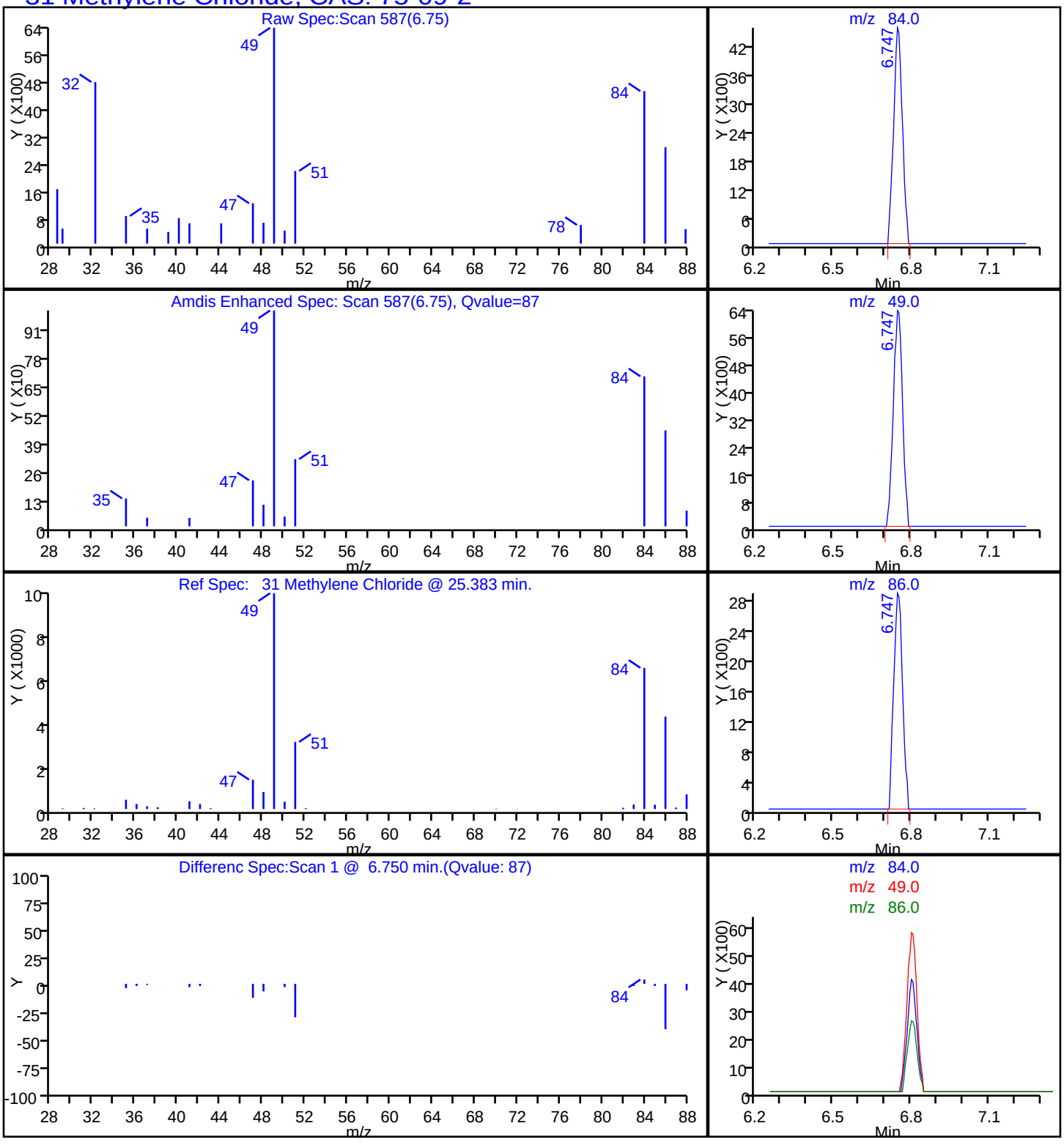
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20		
Client ID:	AMB-3				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



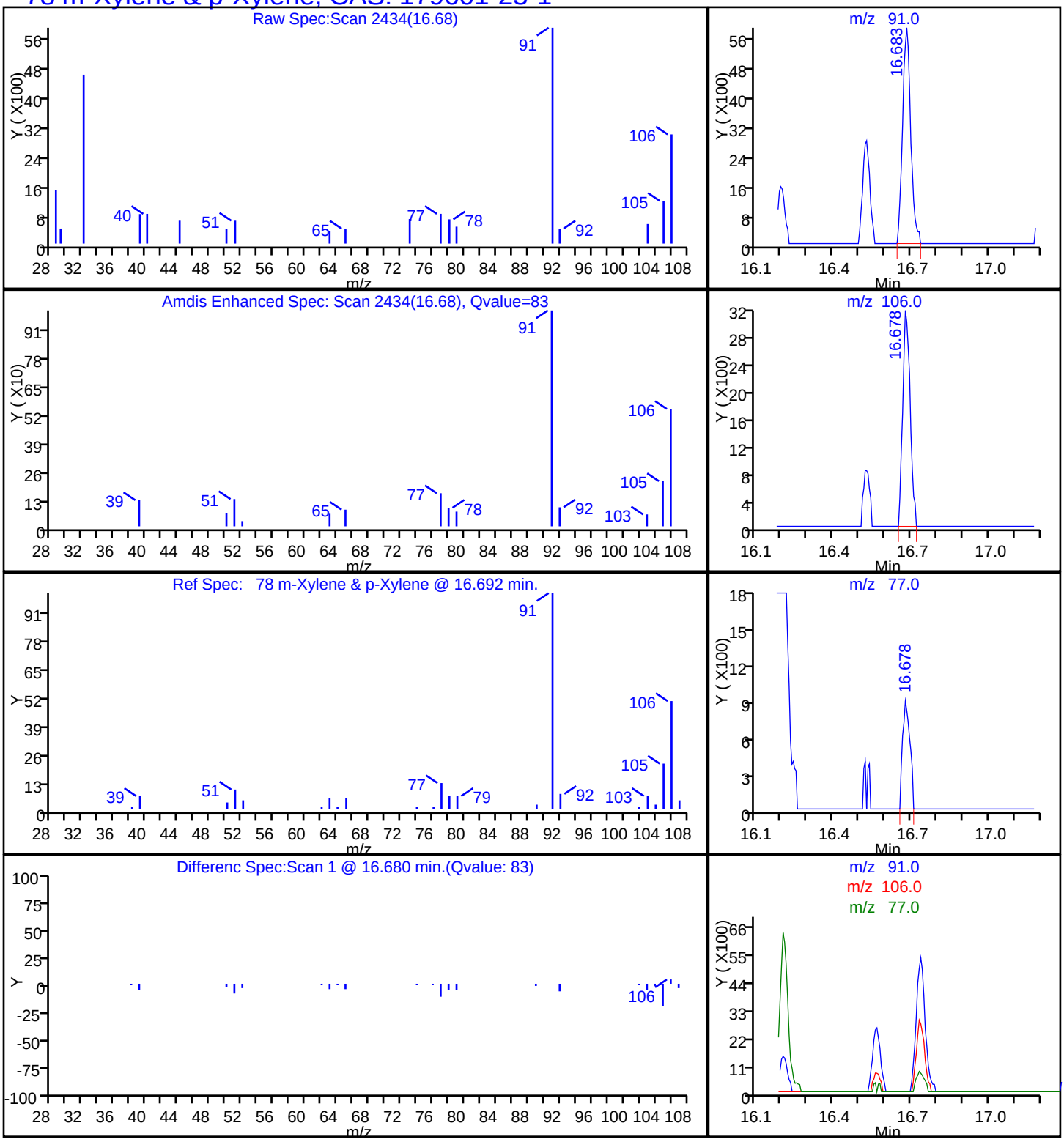
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20		
Client ID:	AMB-3				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30 Instrument ID: MJ

Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20

Client ID: AMB-3

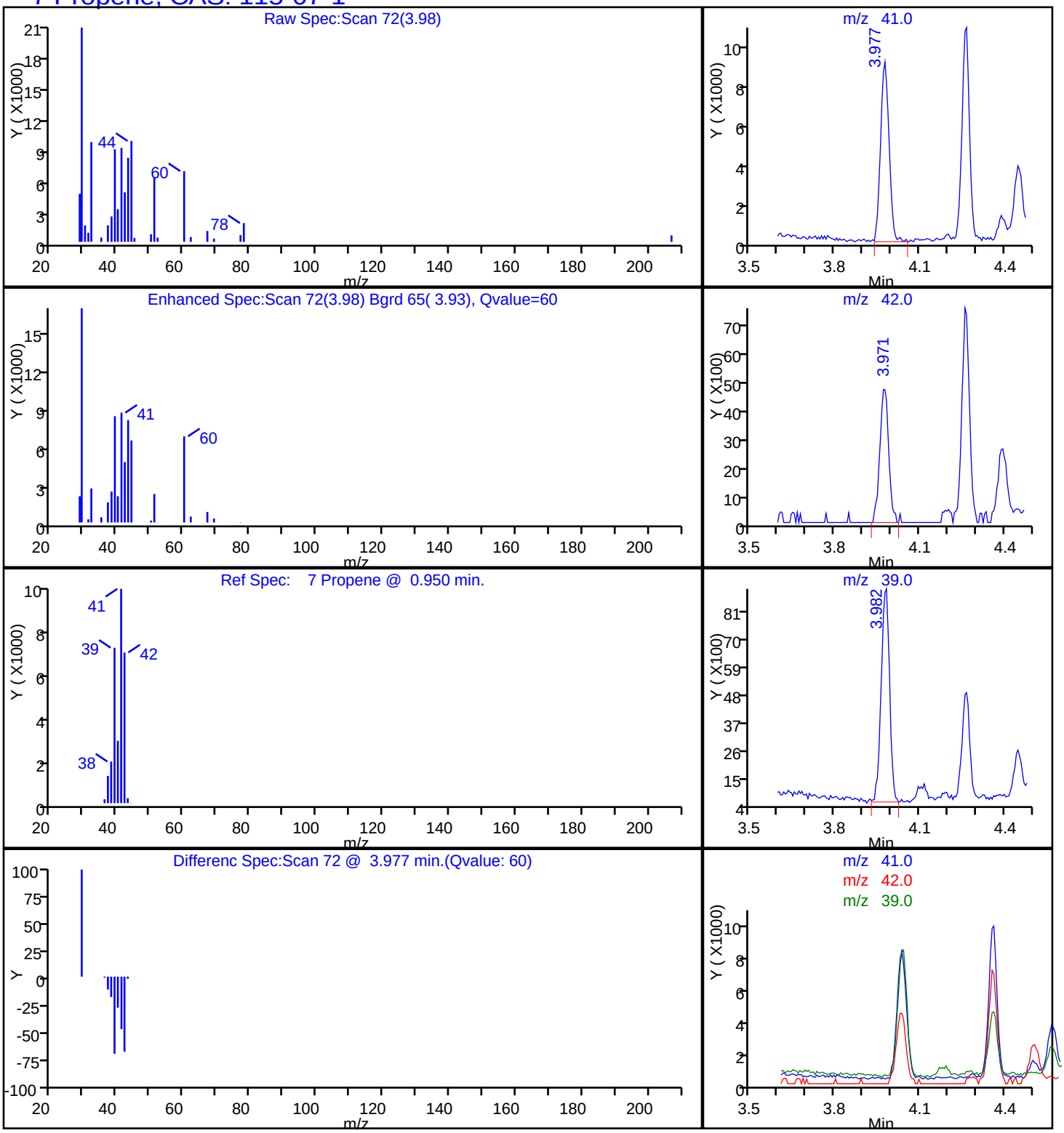
Operator ID: 403648 ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



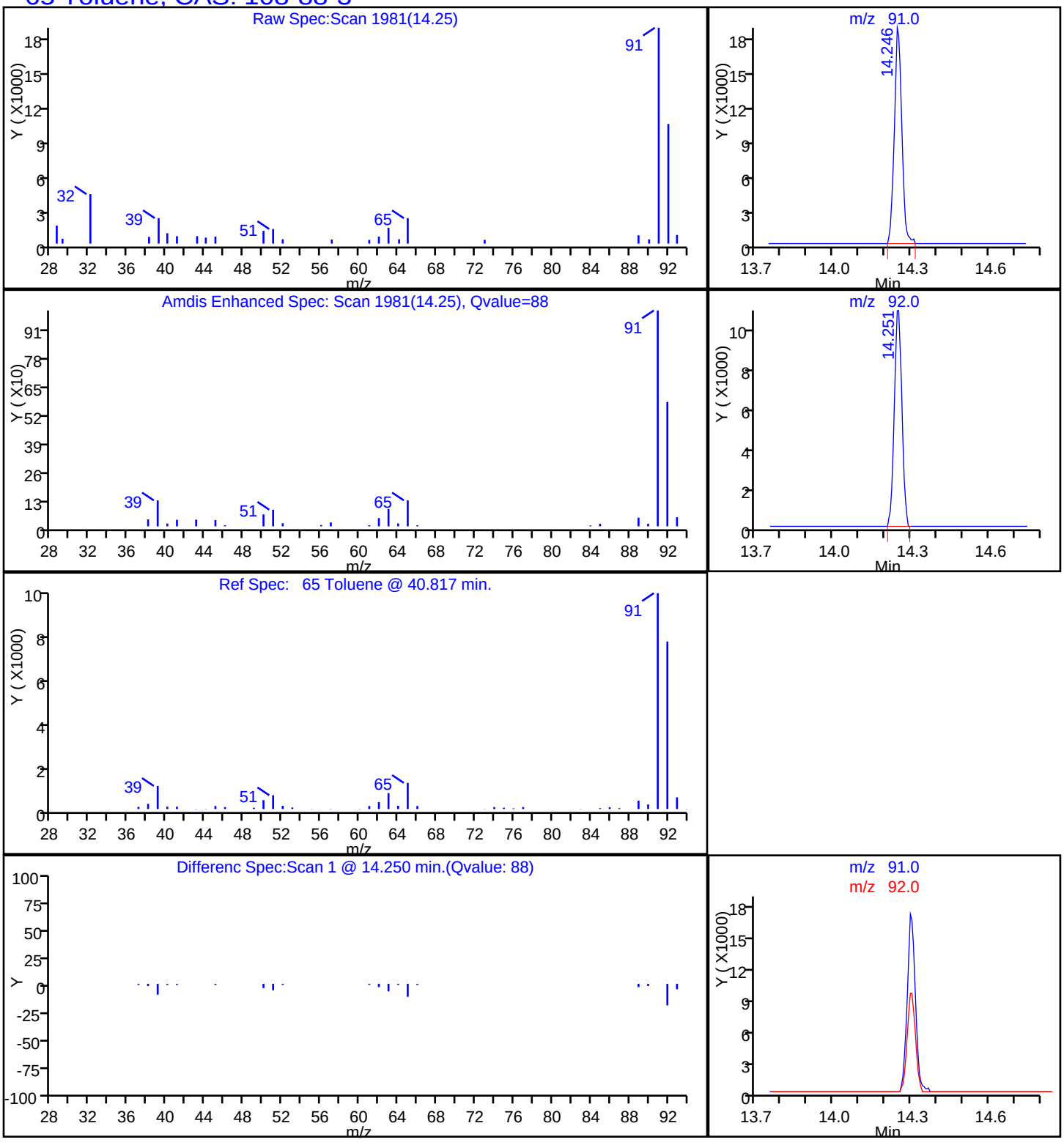
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20		
Client ID:	AMB-3				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



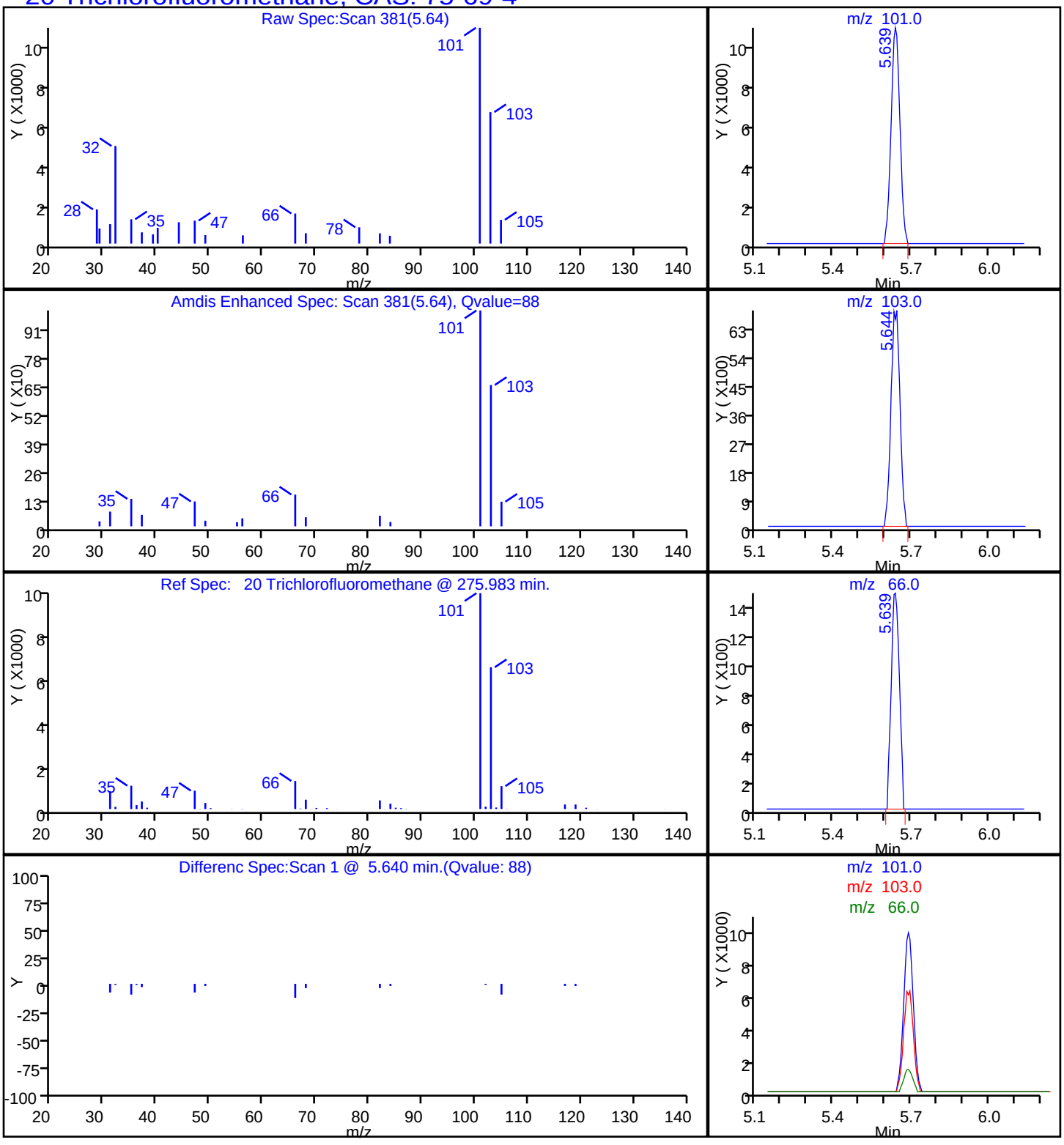
Report Date: 20-Mar-2014 12:42:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date:	19-Mar-2014 20:25:30	Instrument ID:	MJ
Lims ID:	140-1063-A-20	Lab Sample ID:	140-1063-20
Client ID:	AMB-3		
Operator ID:	403648	ALS Bottle#:	5 Worklist Smp#: 11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.088	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.25		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.083	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.44	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.74		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.27	J	0.50	0.045
67-64-1	Acetone	58.08	4.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.28		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.072	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	0.11	J	0.20	0.035
67-66-3	Chloroform	119.38	0.55		0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	50		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.092	J	0.20	0.068
142-82-5	Heptane	100.21	0.098	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.28		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.11	J	0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.075	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.57		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.43	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.5		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.39	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.1	J	2.0	0.18
67-64-1	Acetone	58.08	9.4	J	12	3.3
71-43-2	Benzene	78.11	0.89		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	0.30	J	0.53	0.092
67-66-3	Chloroform	119.38	2.7		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	95		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.40	J	0.87	0.30
142-82-5	Heptane	100.21	0.40	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.49	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.1		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.95	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.49	J	0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.51	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21

Matrix: Air Lab File ID: JC19P106.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:18

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D
Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21
Client ID: IA1-E19
Sample Type: Client
Inject. Date: 19-Mar-2014 21:18:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-21
Misc. Info.: J031914,TO15,,140-0000532-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:50:30 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:44:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	93	347239	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.542	-0.009	94	1642012	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.201	-0.004	86	1317082	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.820	-0.004	90	881203	3.78	
7 Propene	41	3.980	3.973	0.007	94	42684	0.4009	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	61065	0.1775	
9 Chloromethane	52	4.228	4.231	-0.003	98	8484	0.2171	
16 Chloroethane	64	5.013	5.022	-0.009	60	2666	0.0450	
17 Ethanol	31	5.115	5.119	-0.004	95	560696	20.1	
19 2-Methylbutane	43	5.406	5.409	-0.003	92	43547	0.2953	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	87	26418	0.0874	
23 Acetone	58	5.766	5.770	-0.004	94	78063	1.58	
24 Isopropyl alcohol	45	5.852	5.850	0.002	94	107126	0.8219	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.582	0.002	60	5622	0.0269	
31 Methylene Chloride	84	6.751	6.754	-0.003	83	10196	0.1098	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	97	5769	0.1755	
40 Hexane	56	8.634	8.637	-0.003	65	5225	0.0560	
43 Chloroform	83	9.387	9.396	-0.009	75	44710	0.2210	
48 Benzene	78	11.017	11.026	-0.009	90	31389	0.1114	
50 Carbon tetrachloride	117	11.049	11.047	0.002	84	6682	0.0287	
53 Isooctane	57	11.754	11.763	-0.009	81	15994	0.0332	
54 n-Heptane	71	12.120	12.123	-0.003	80	3888	0.0390	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.371	0.002	86	18263	0.1061	
65 Toluene	91	14.250	14.253	-0.003	91	56036	0.2293	
73 Tetrachloroethene	129	15.379	15.383	-0.004	67	3419	0.0300	
76 Ethylbenzene	91	16.525	16.529	-0.004	51	9900	0.0367	
78 m-Xylene & p-Xylene	91	16.676	16.685	-0.009	92	24318	0.1117	
82 o-Xylene	91	17.209	17.212	-0.003	72	9863	0.0447	
93 1,2,4-Trimethylbenzene	105	18.941	18.939	0.002	63	8958	0.0350	
97 1,4-Dichlorobenzene	146	19.296	19.294	0.002	84	15595	0.0997	

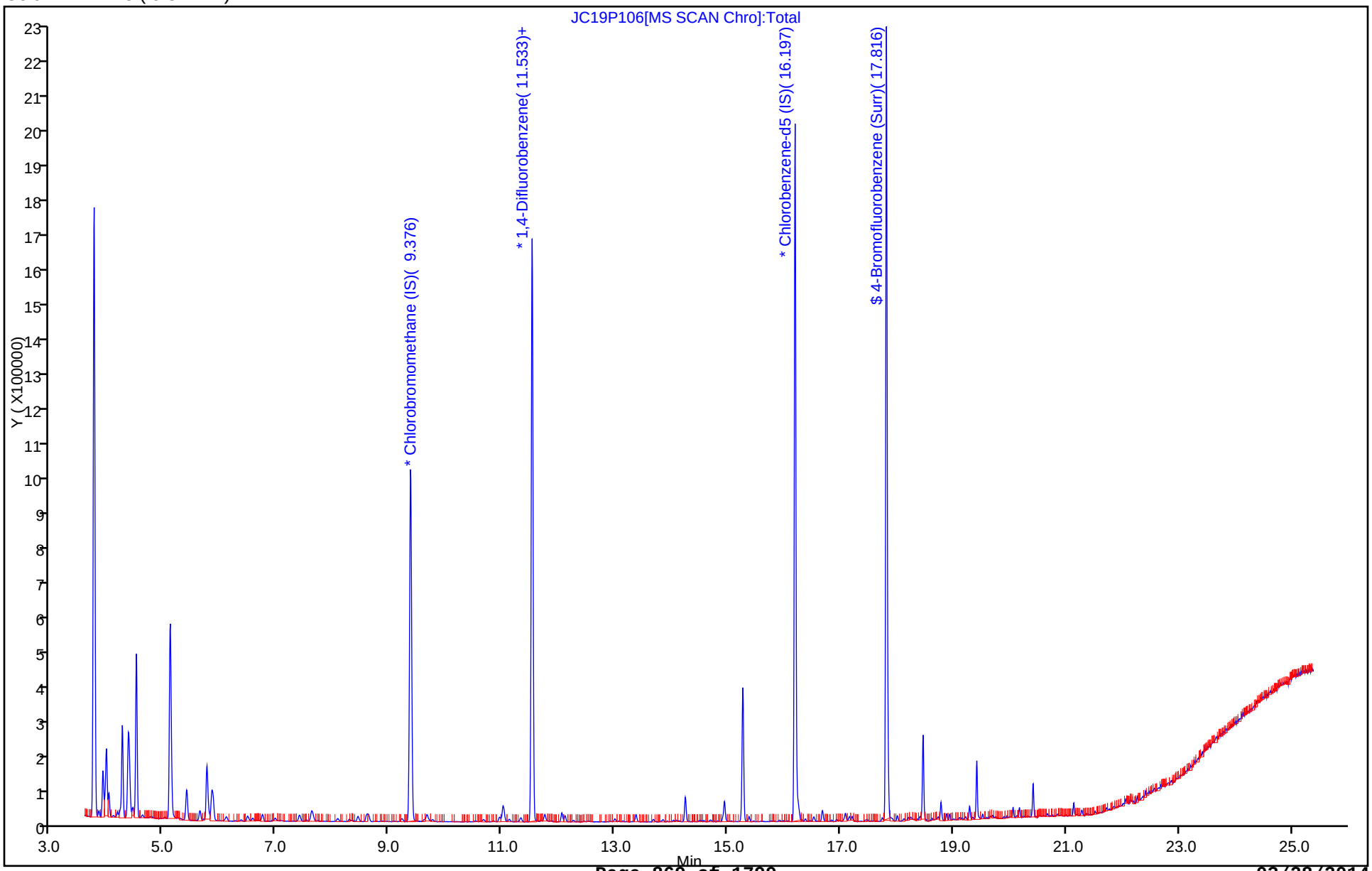
Report Date: 20-Mar-2014 12:50:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21	Worklist Smp#:	12
Client ID:	IA1-E19				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

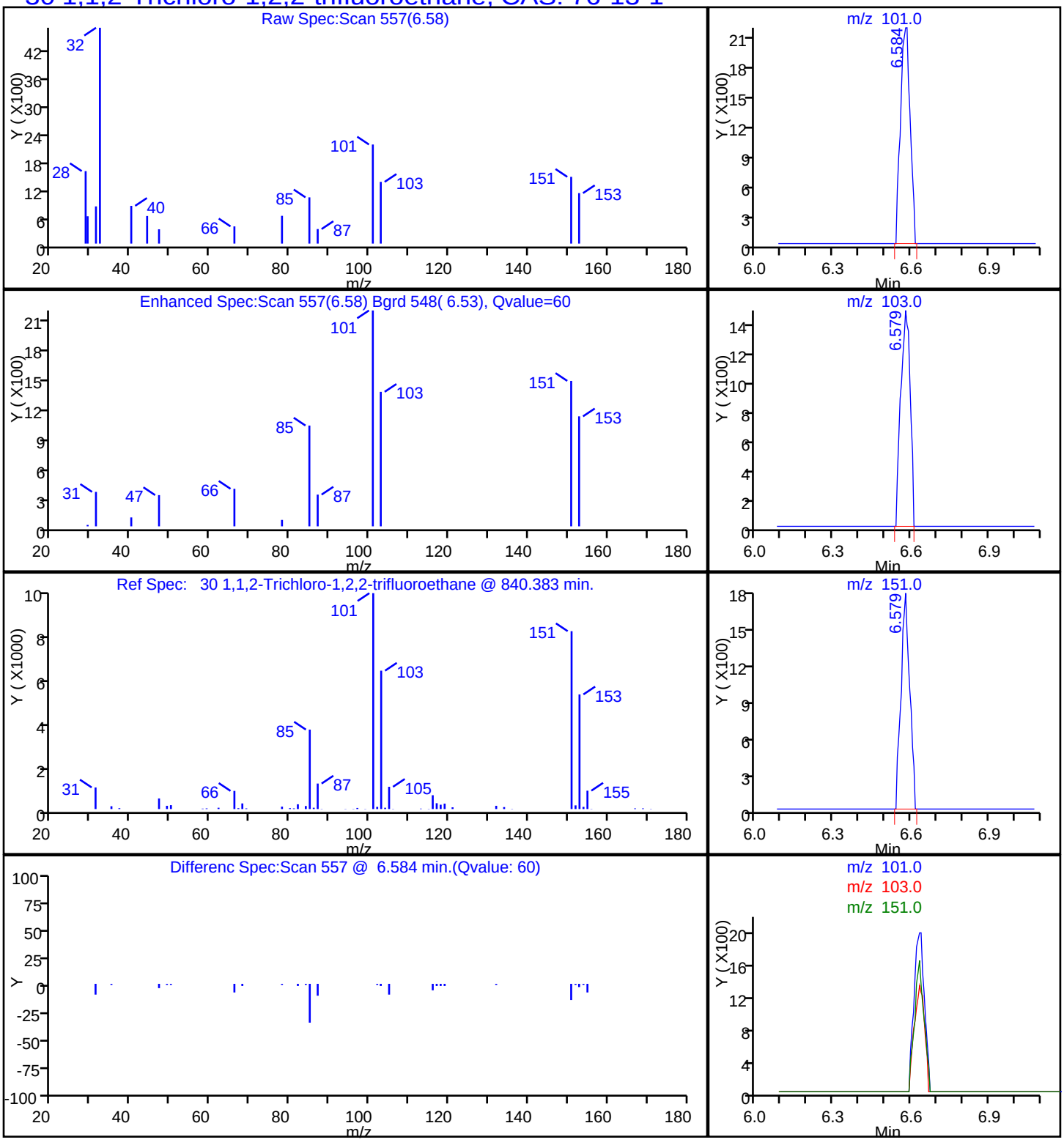
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



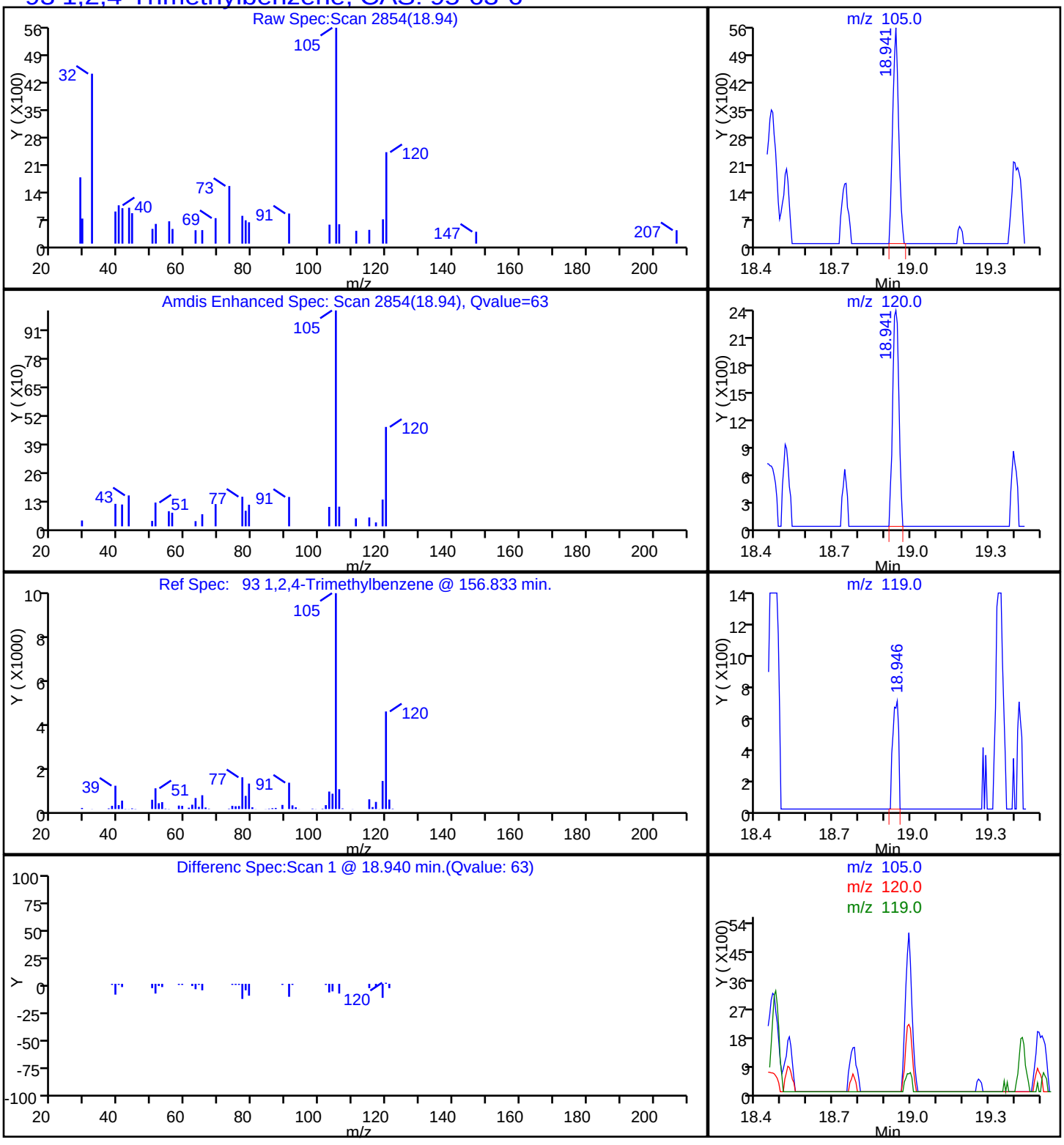
Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

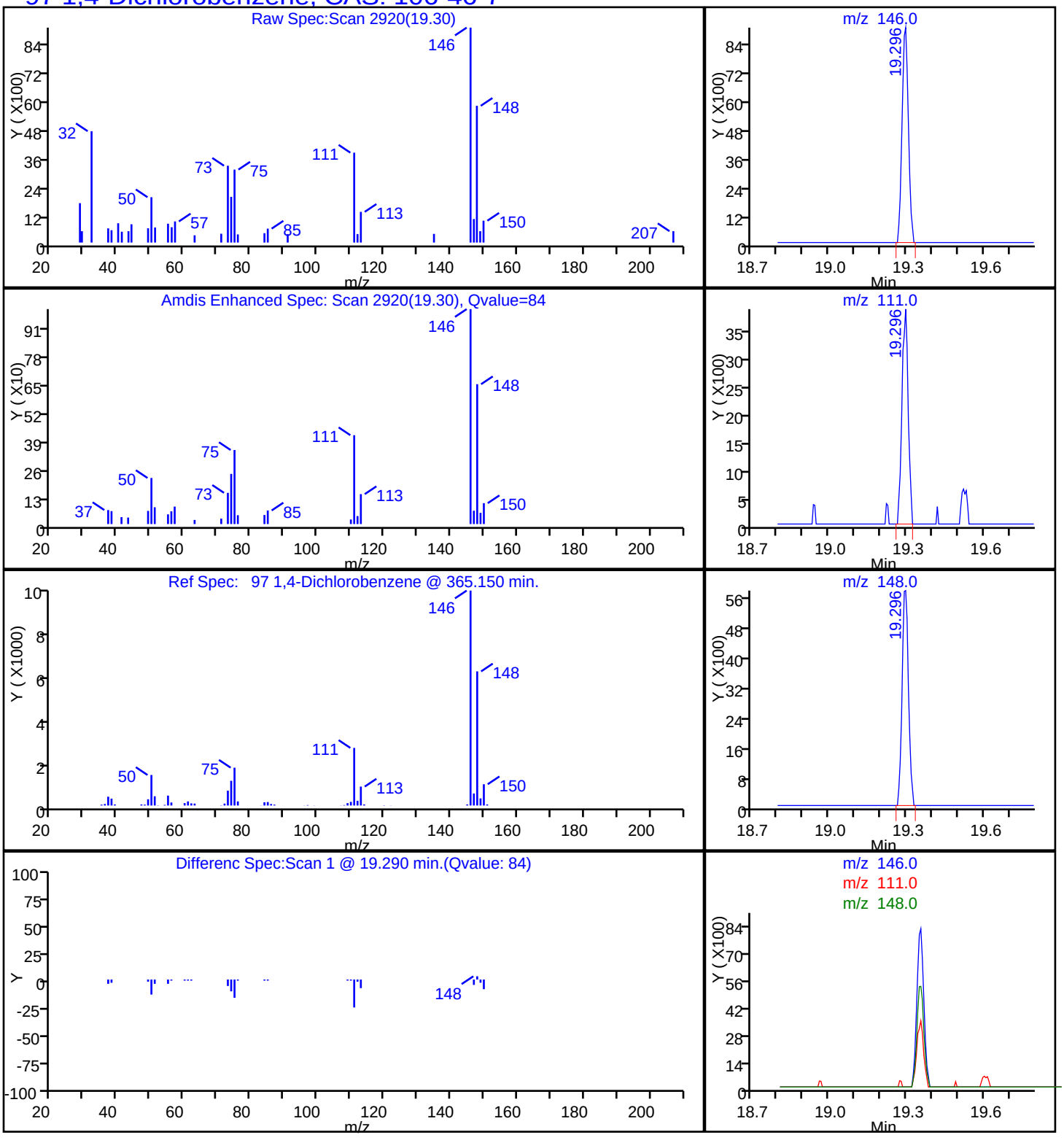
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



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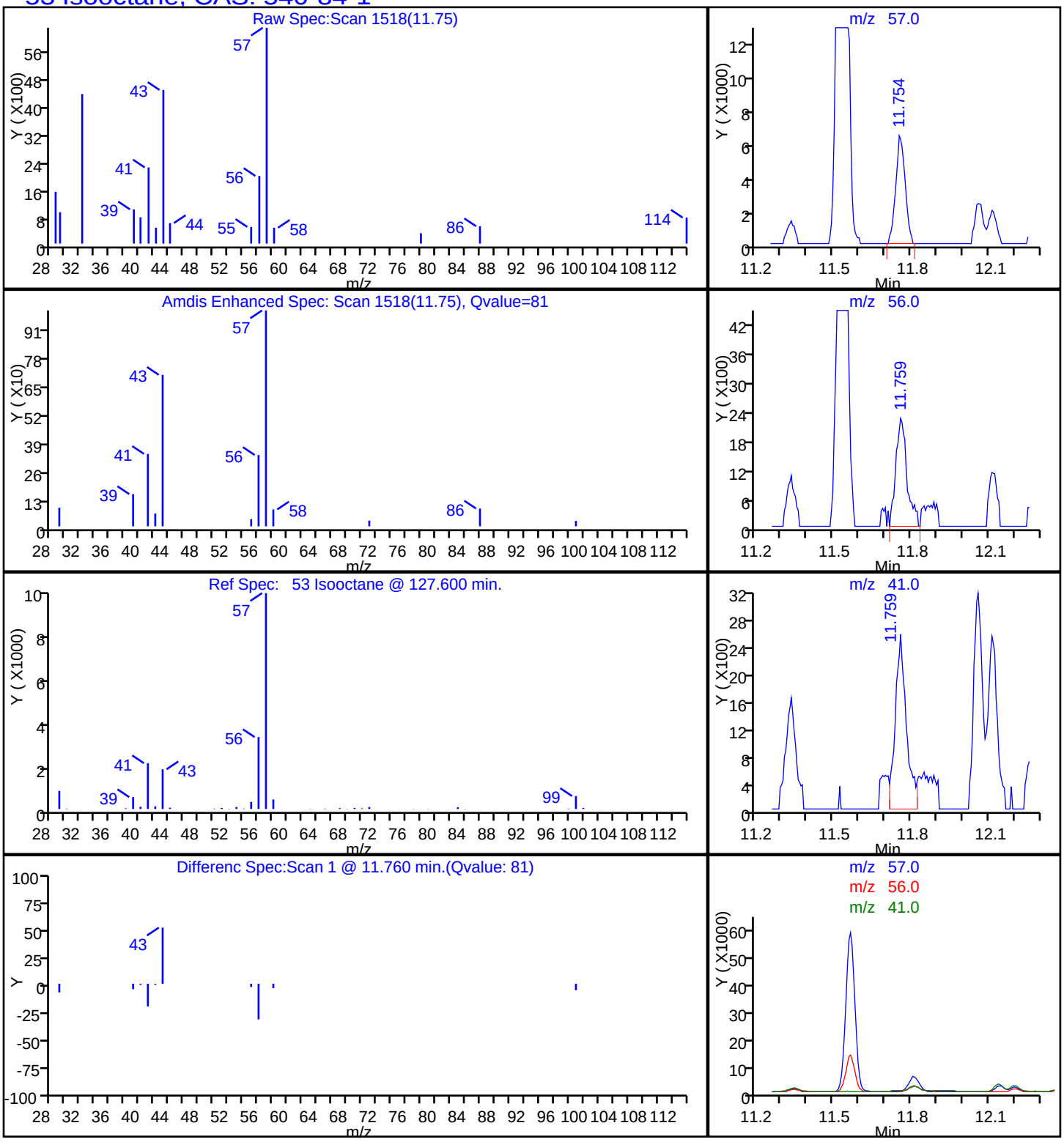
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

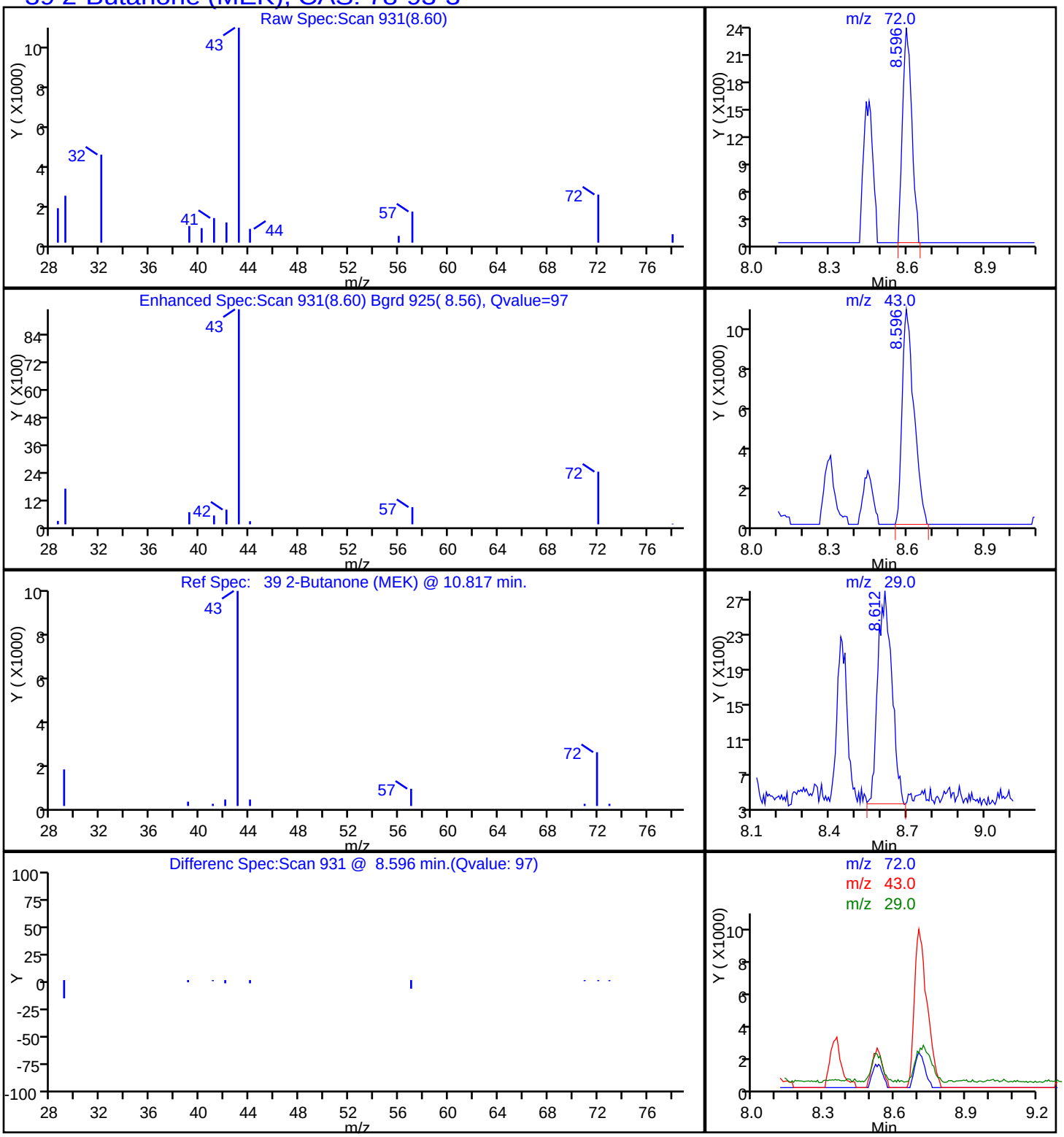
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

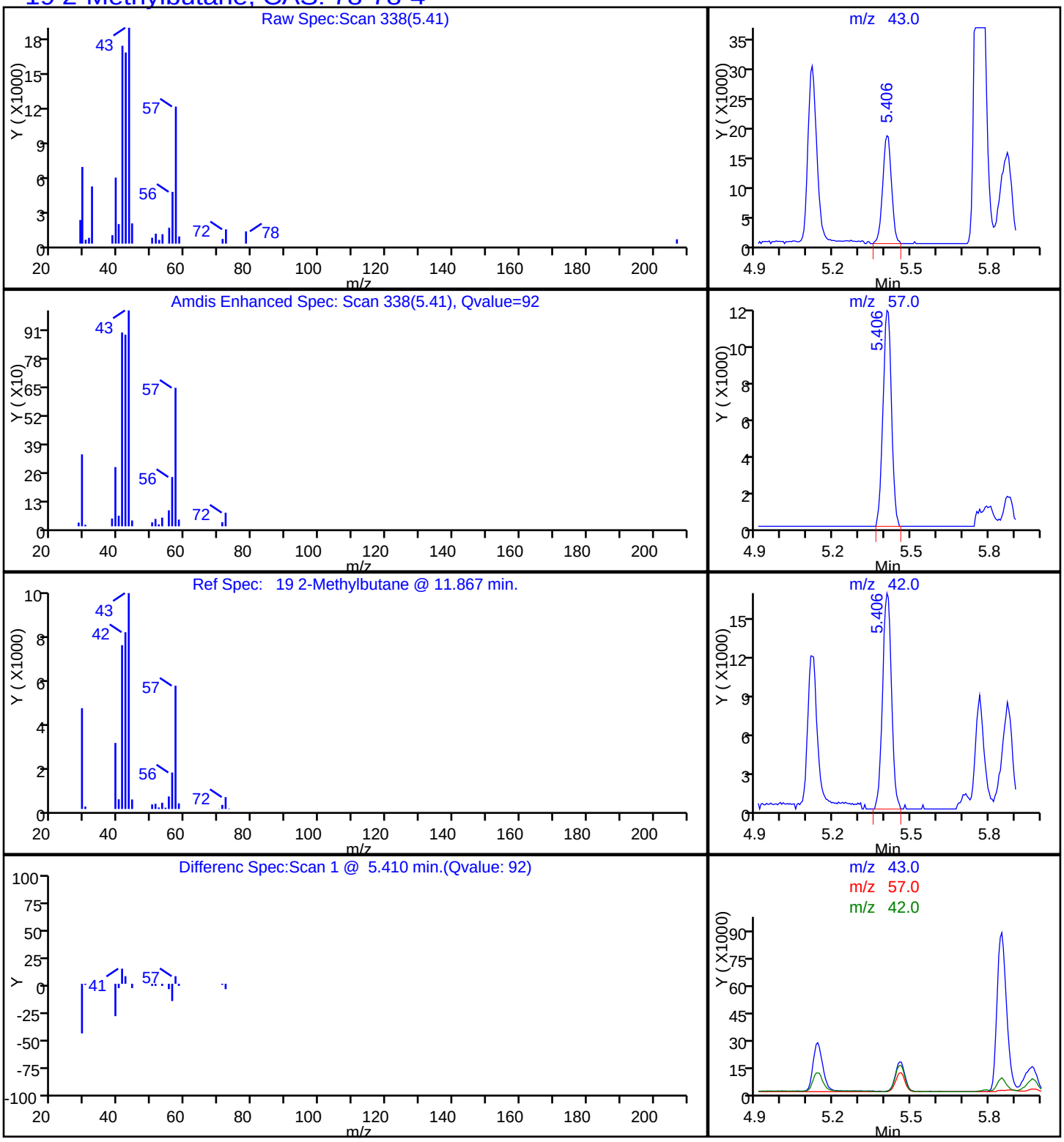
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

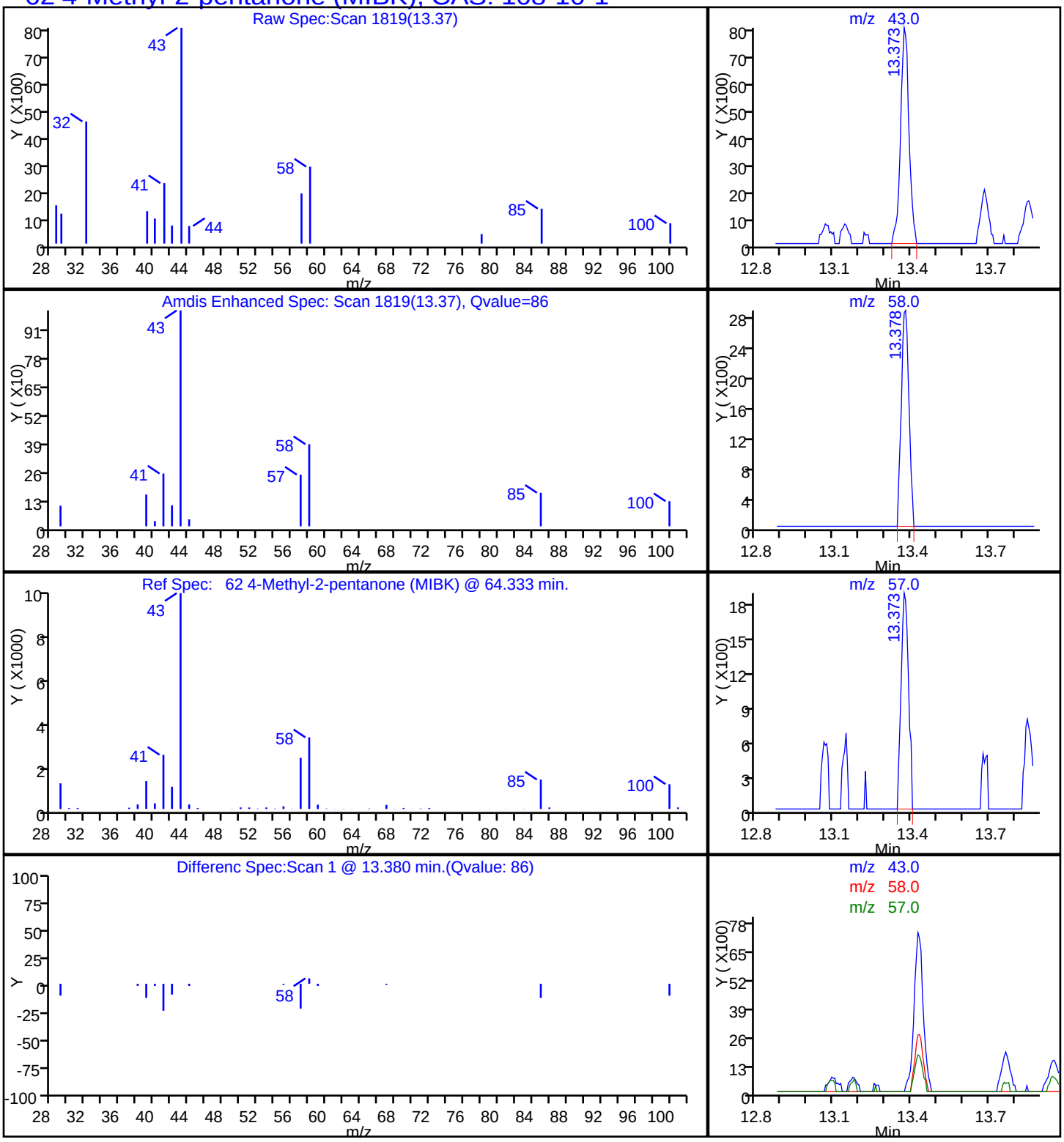
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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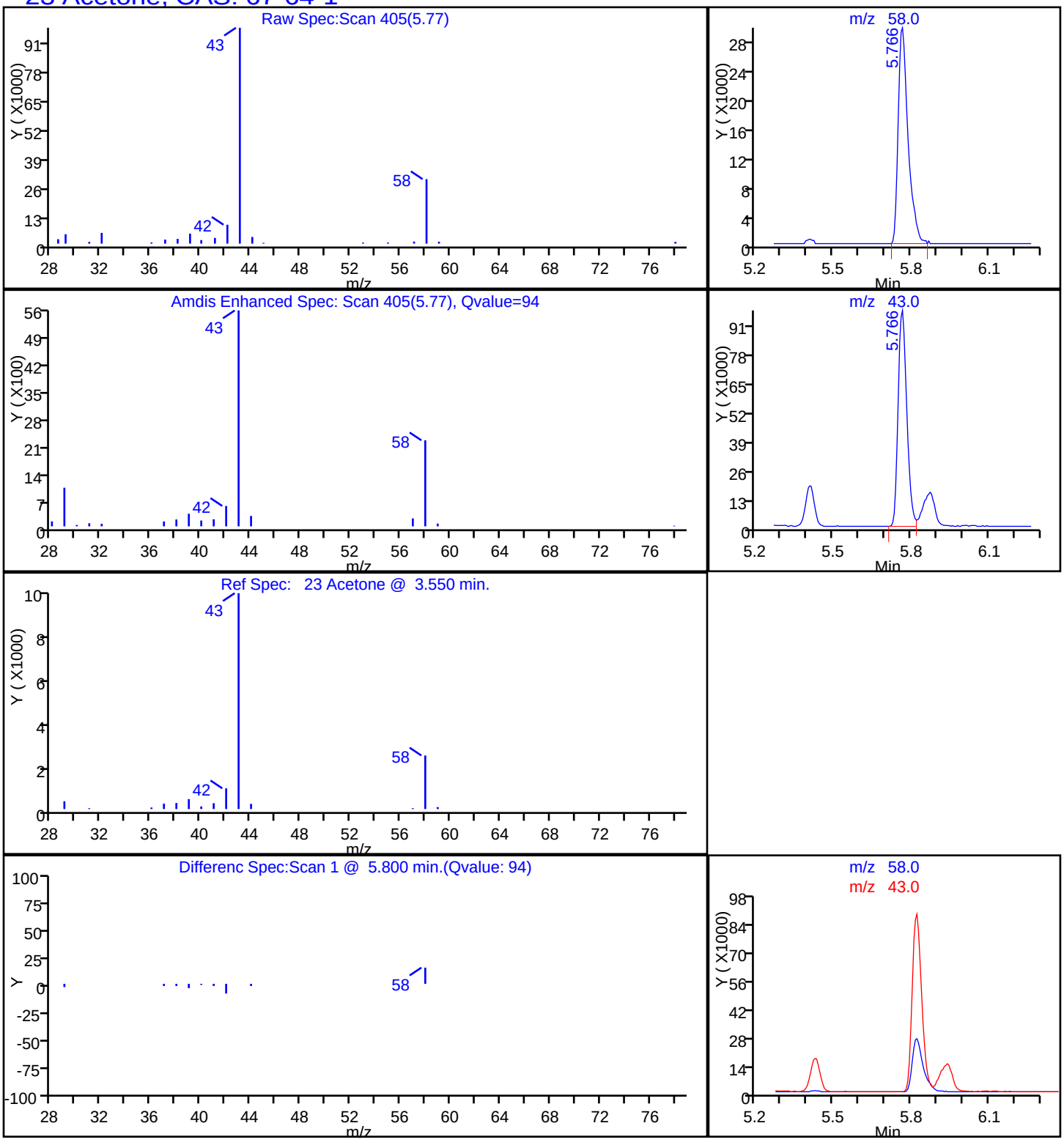
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21
Client ID:	IA1-E19		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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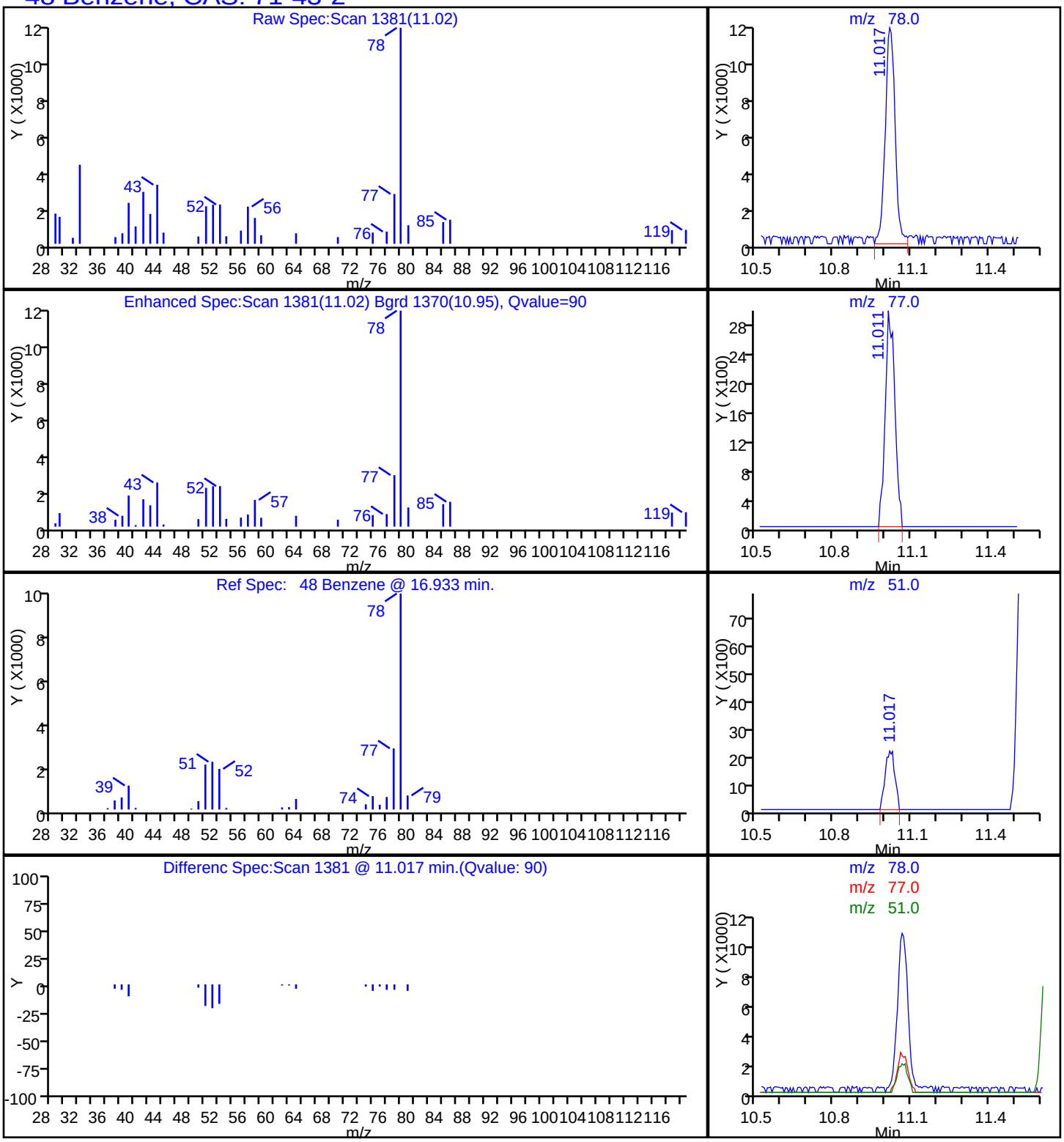
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 Benzene, CAS: 71-43-2



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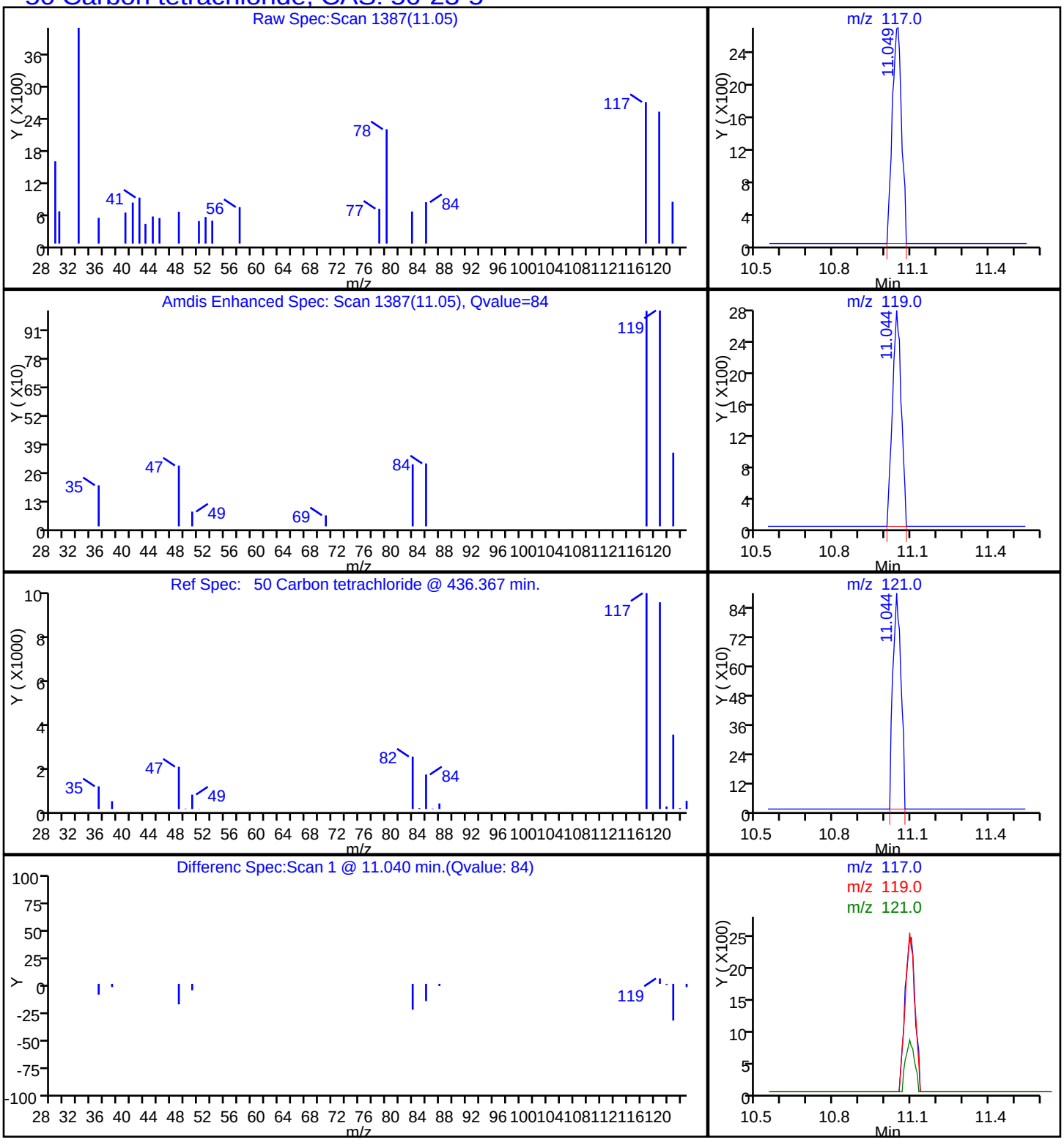
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21
Client ID:	IA1-E19		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



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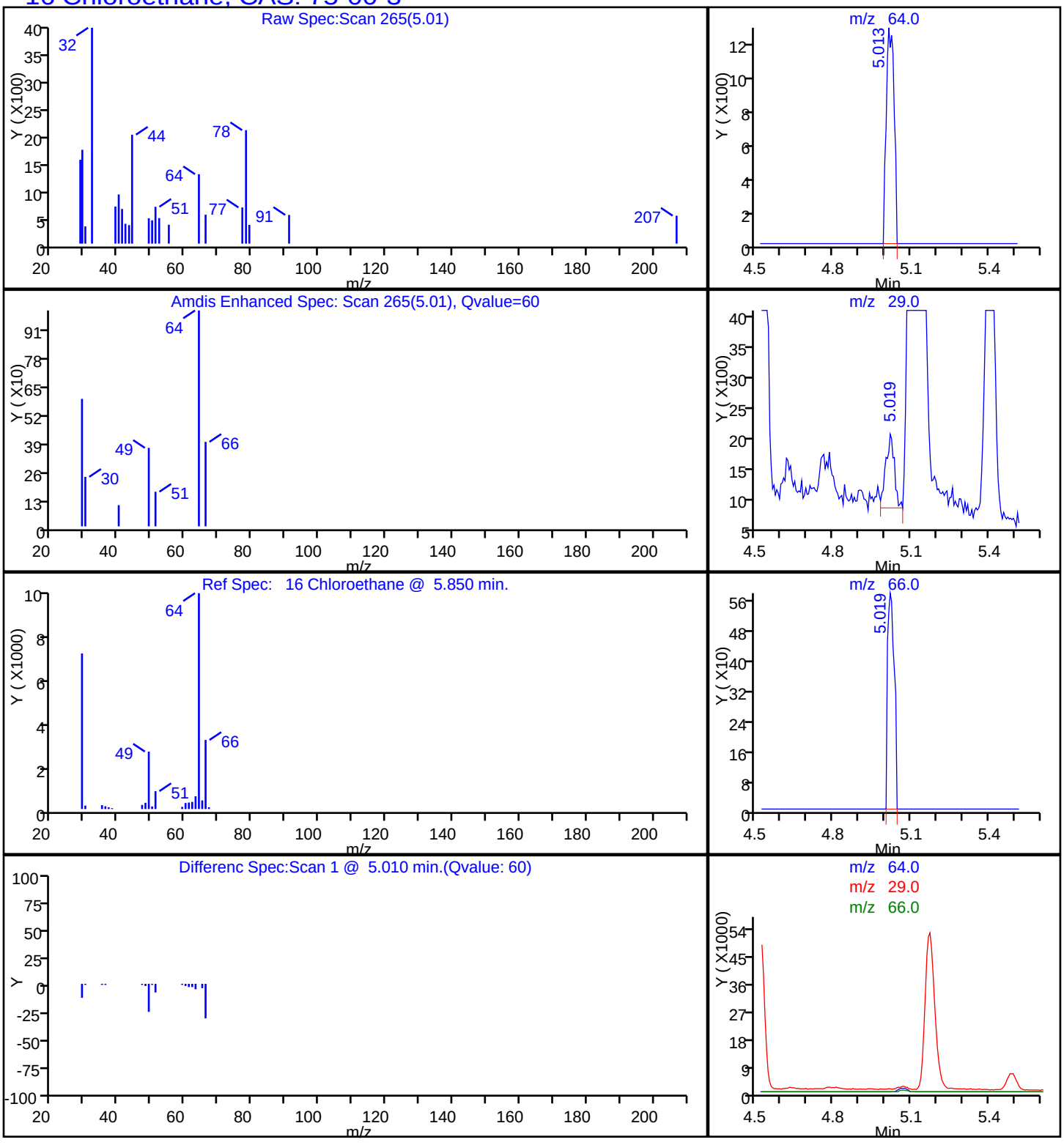
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3



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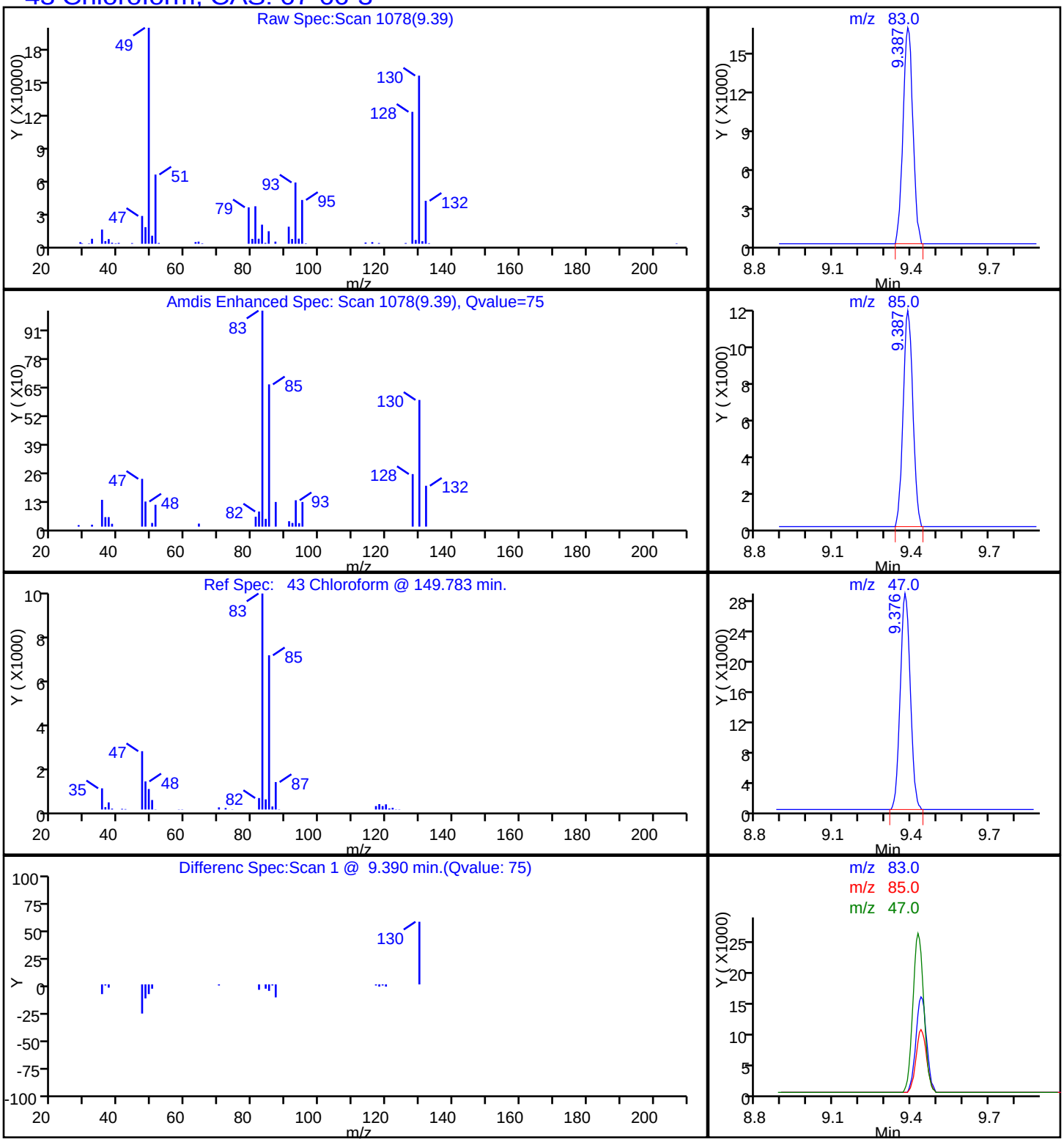
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21
Client ID:	IA1-E19		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

43 Chloroform, CAS: 67-66-3



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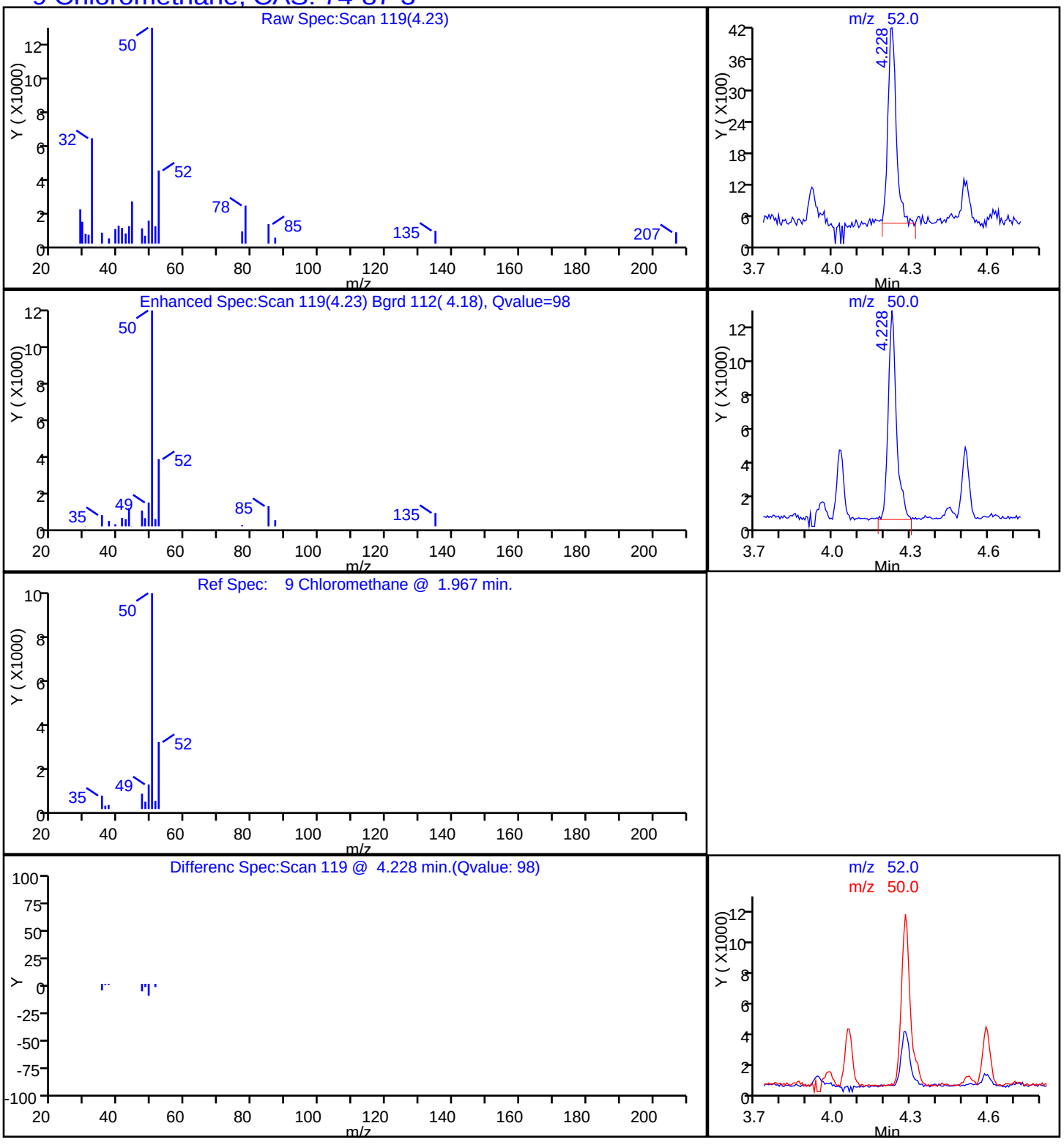
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



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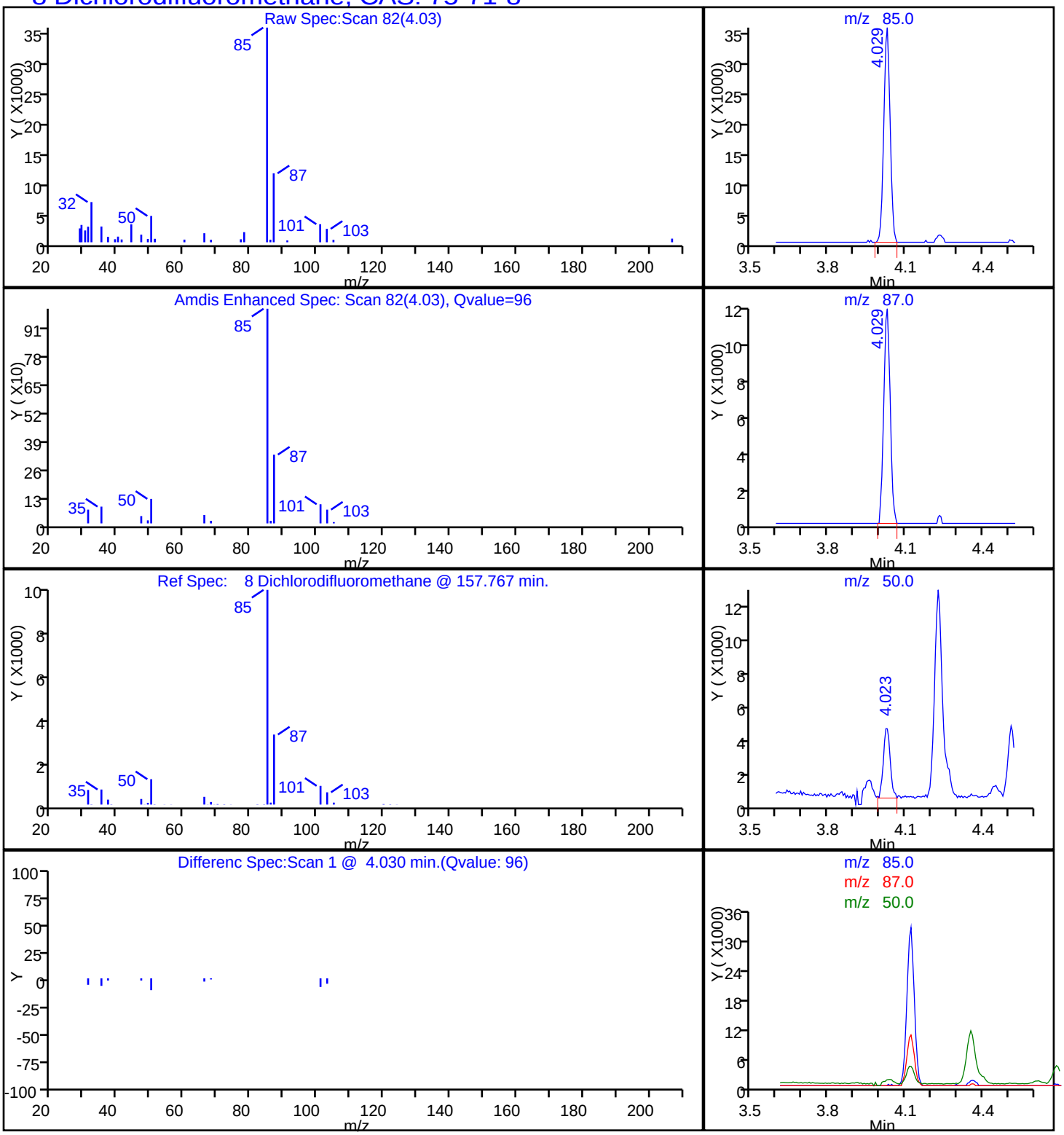
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



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TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D				
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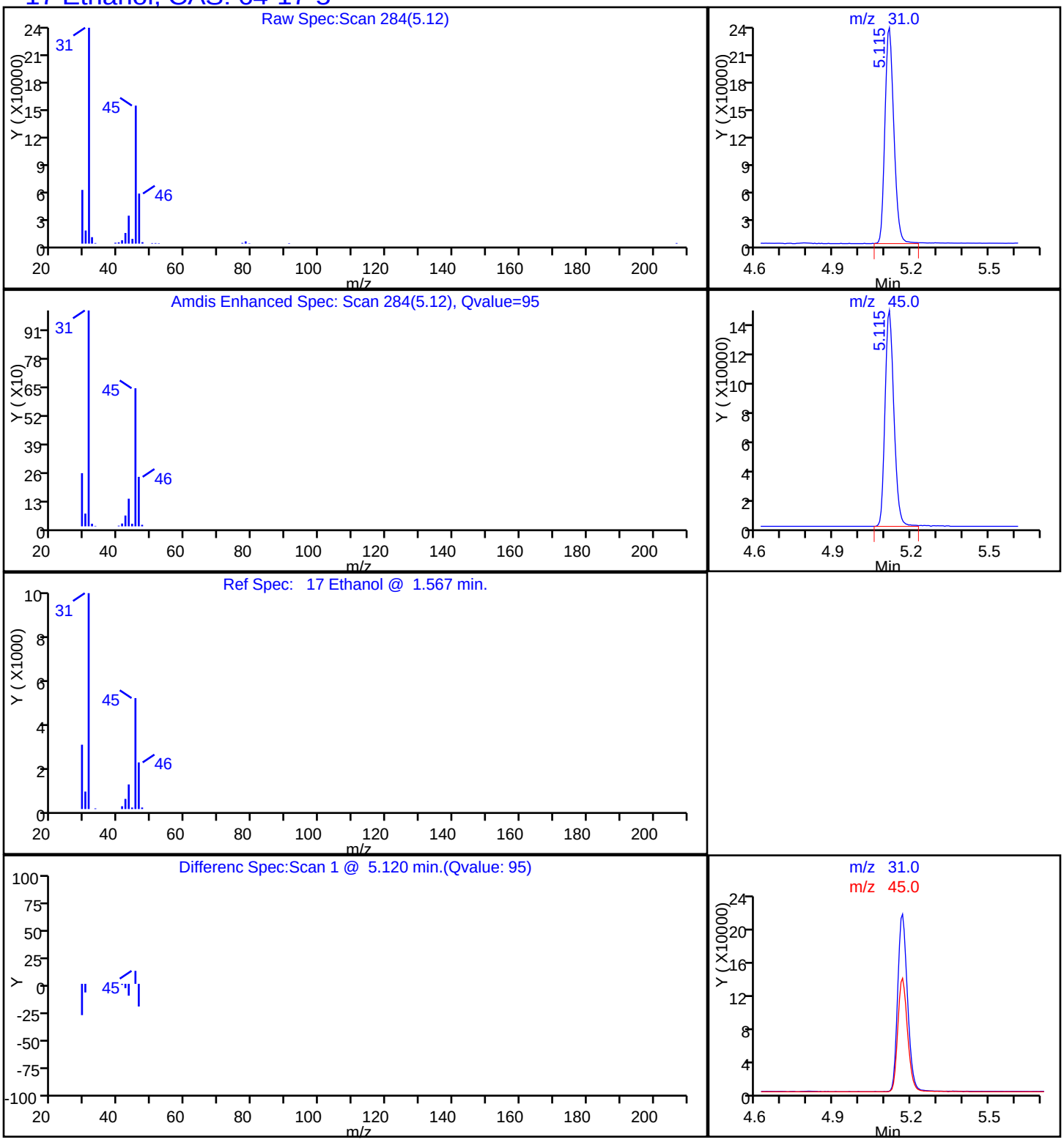
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



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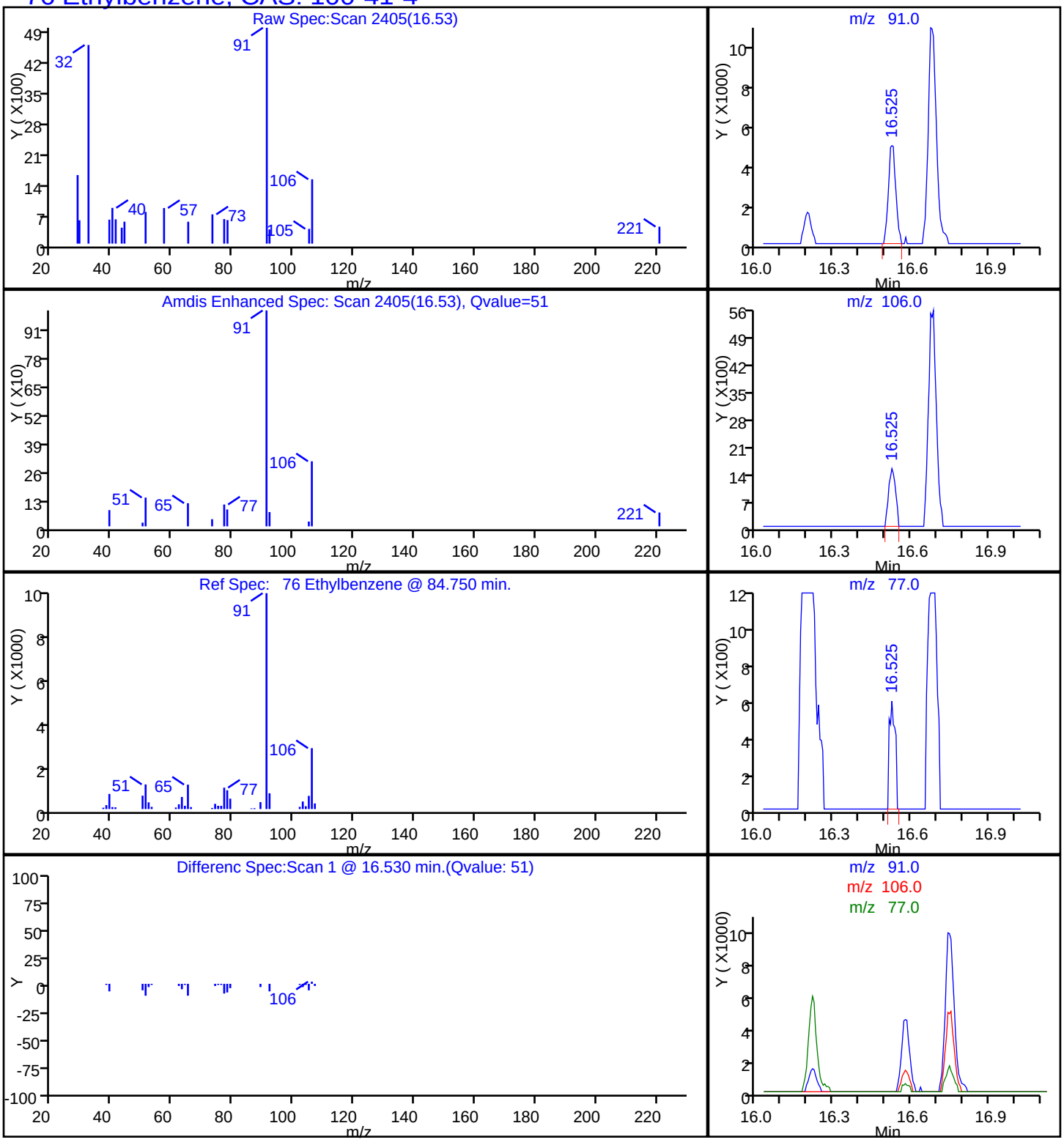
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21
Client ID:	IA1-E19		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

76 Ethylbenzene, CAS: 100-41-4



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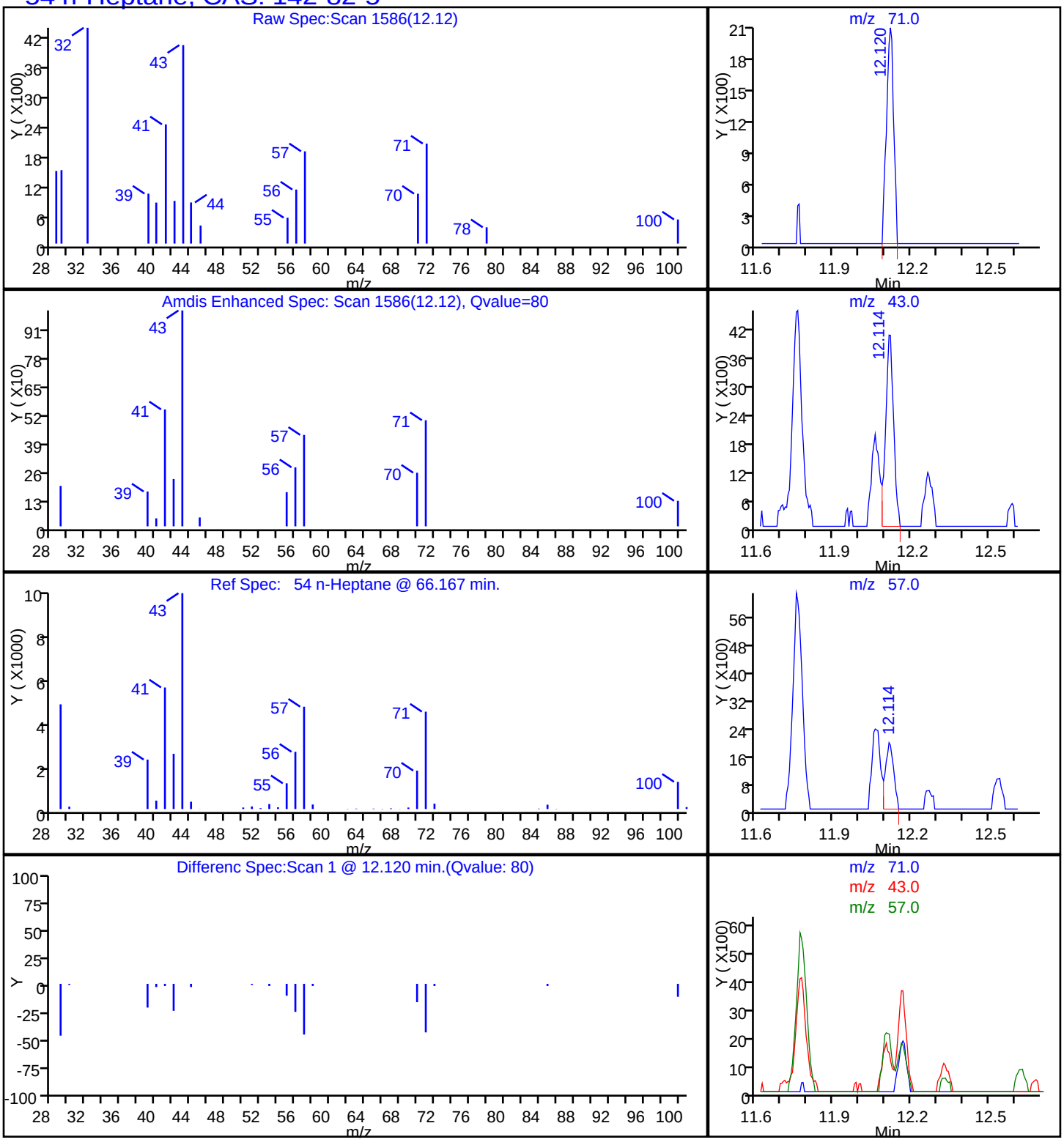
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21
Client ID:	IA1-E19		
Operator ID:	403648	ALS Bottle#:	6 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



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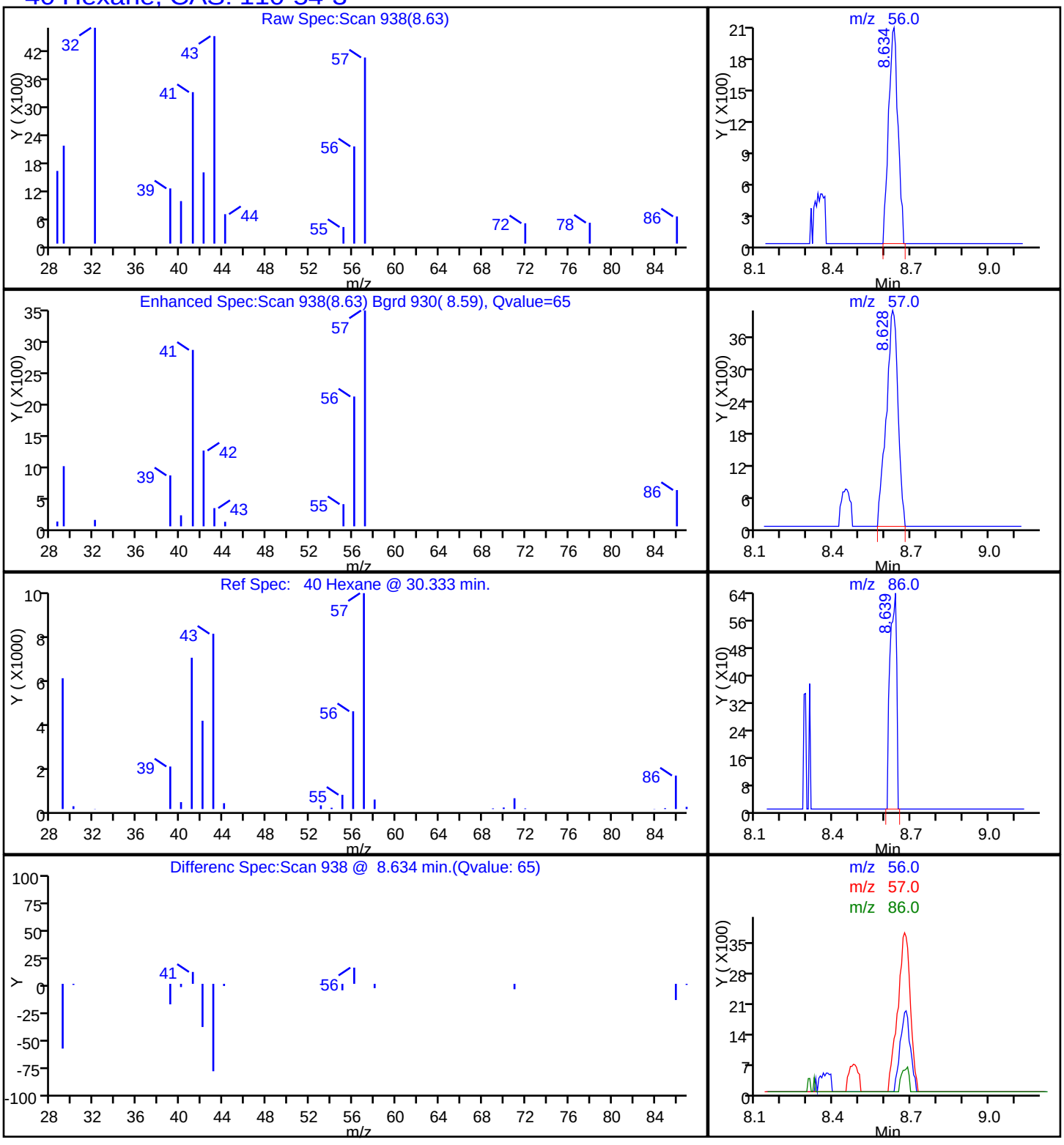
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



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Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

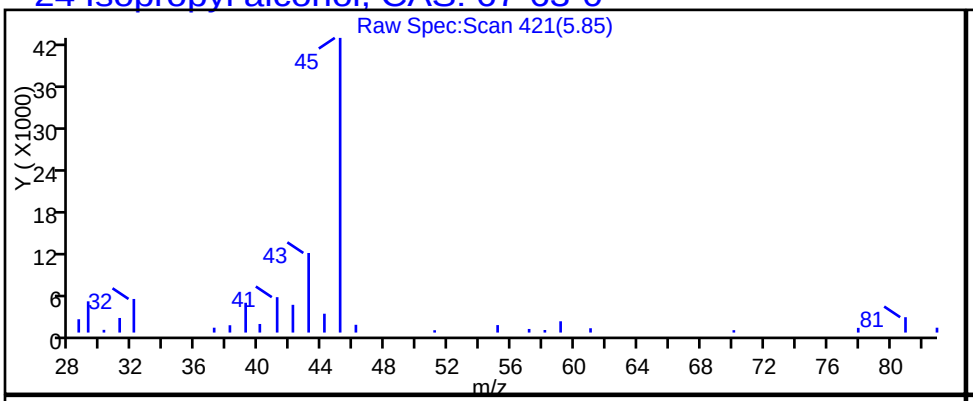
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

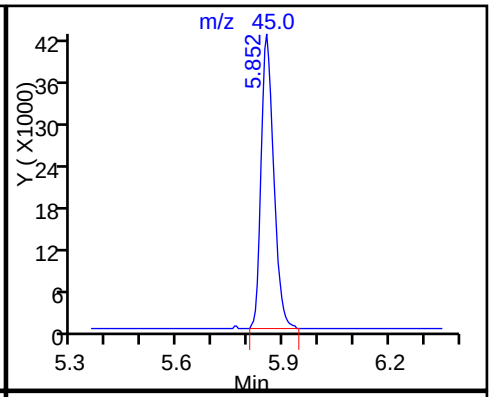
Purge Vol: 500.000 mL Dil. Factor: 1.0000

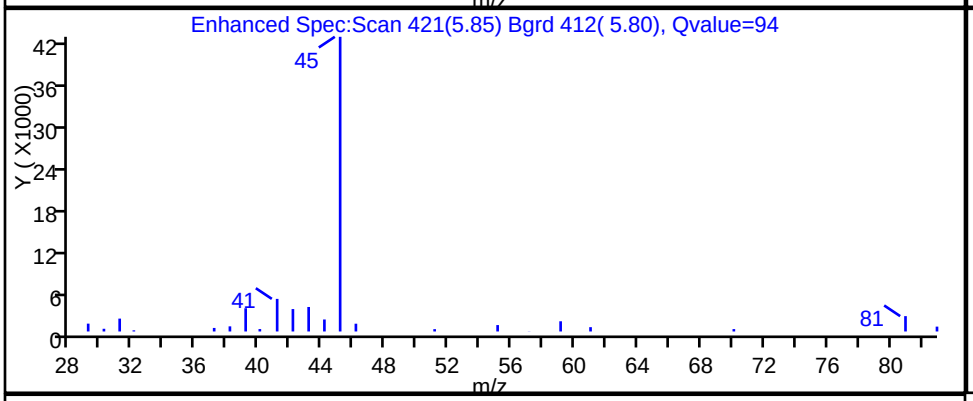
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

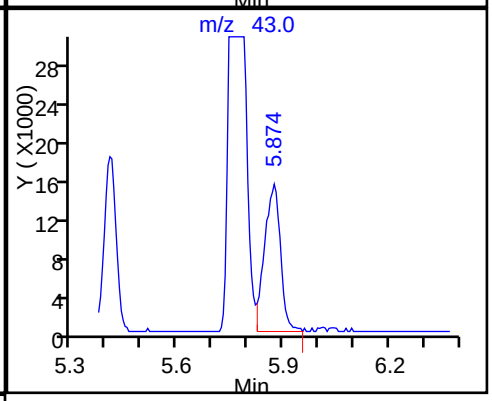
Column: RTX-5 (0.32 mm) Detector MS SCAN

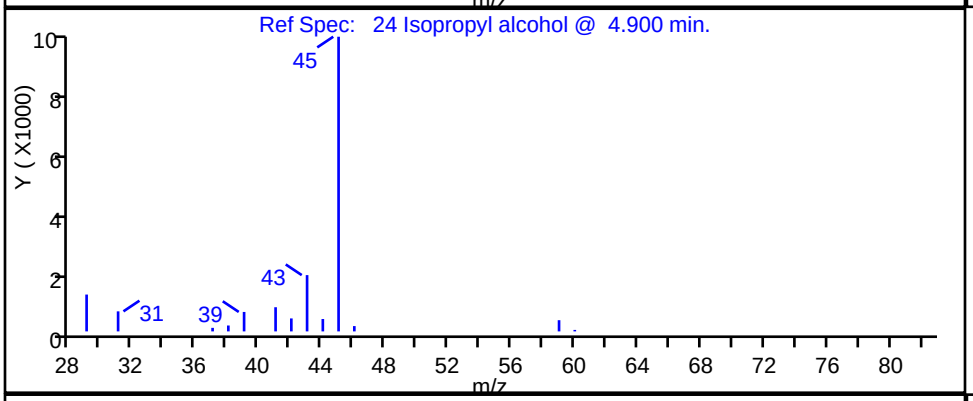
24 Isopropyl alcohol, CAS: 67-63-0

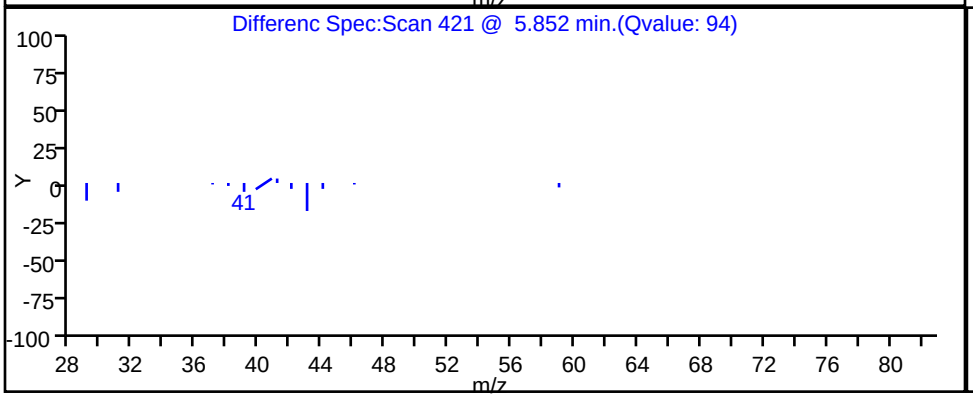


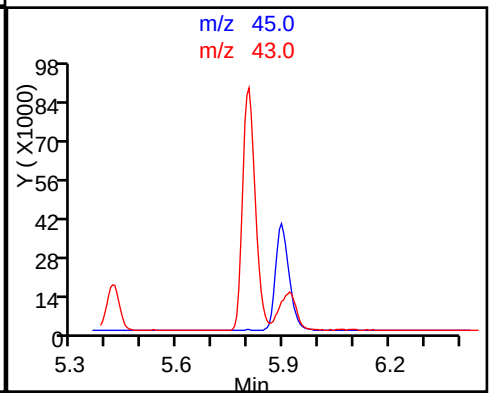












Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

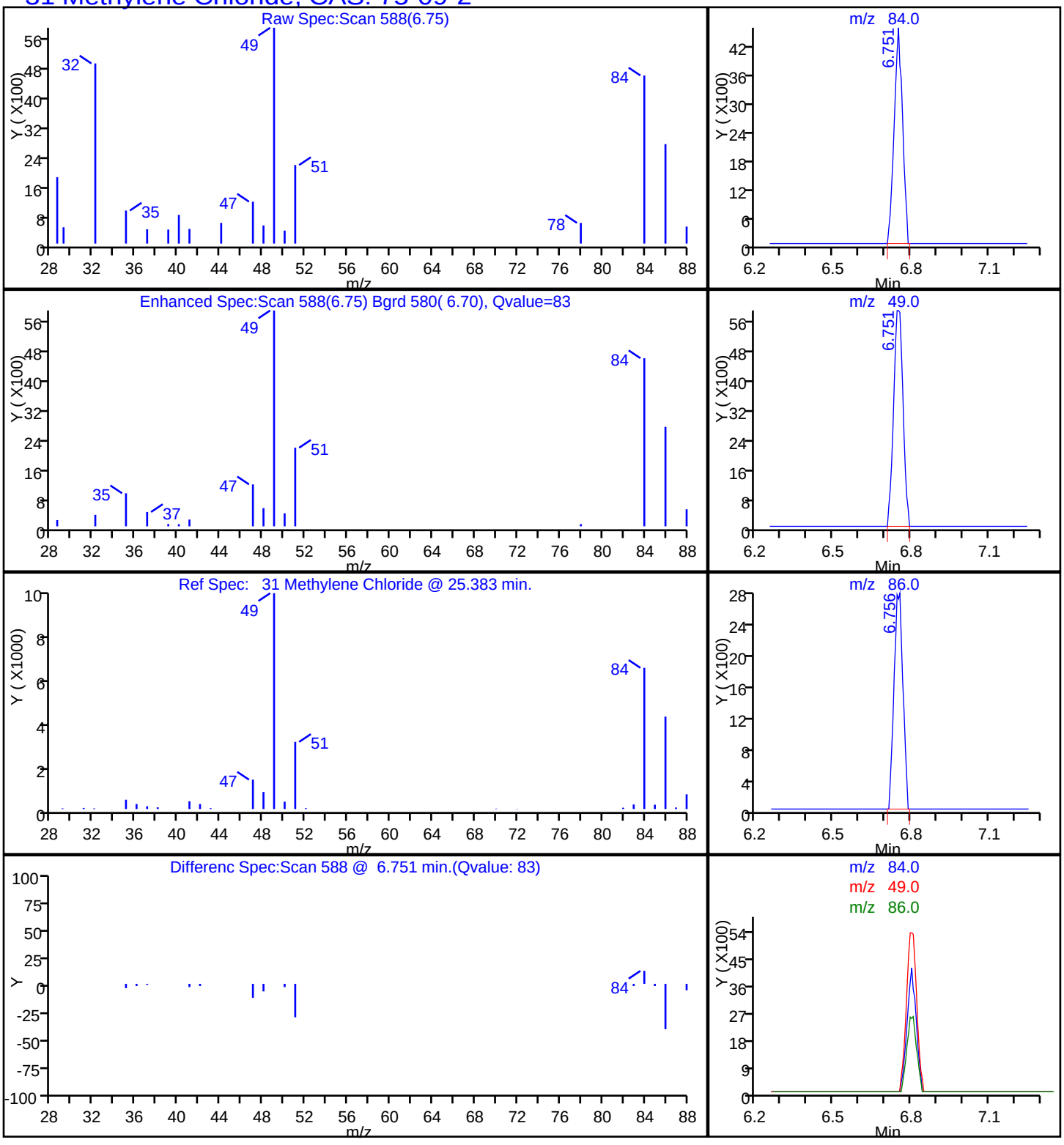
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



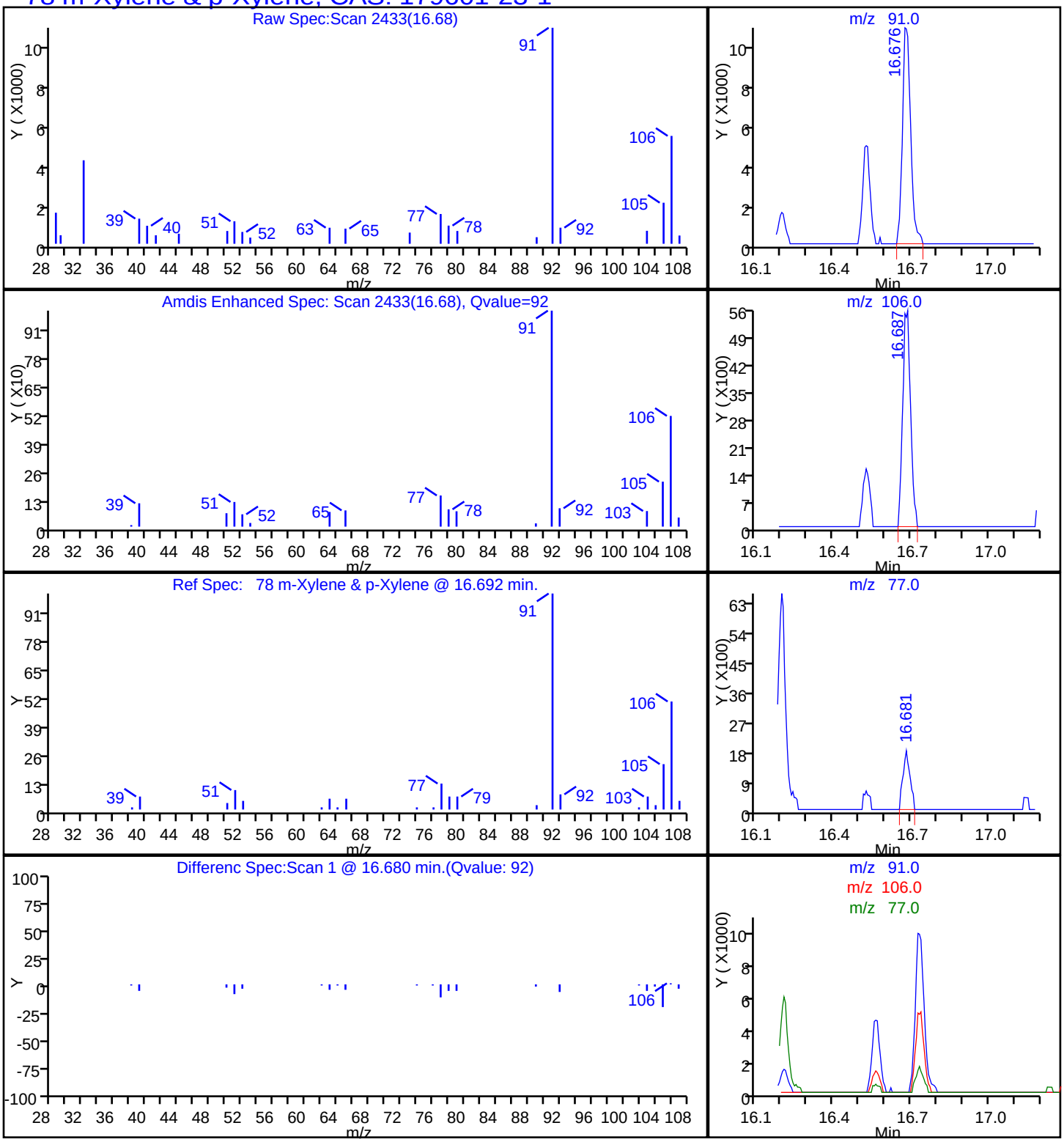
Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



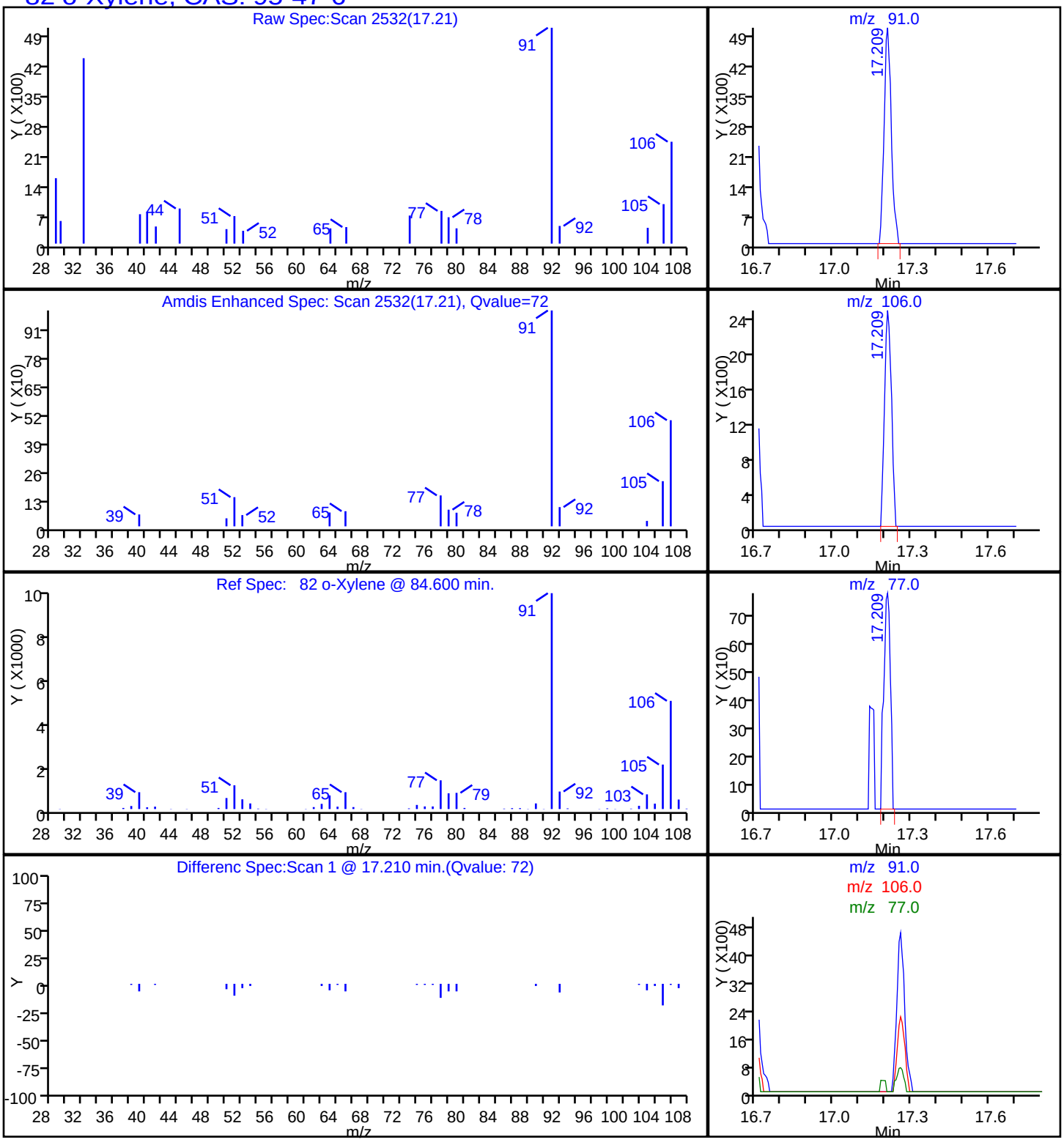
Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



Report Date: 20-Mar-2014 12:50:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

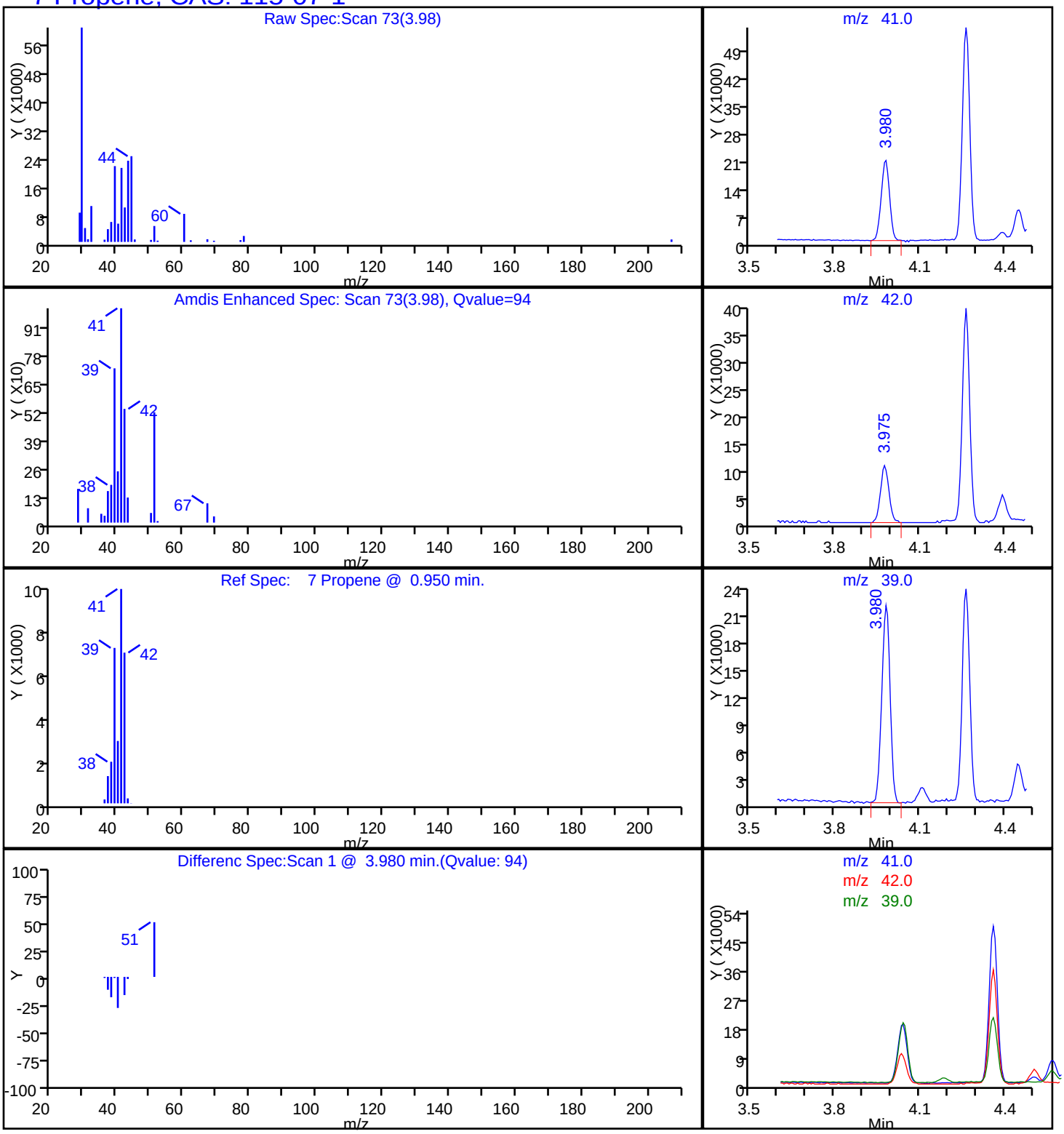
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30 Instrument ID: MJ

Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21

Client ID: IA1-E19

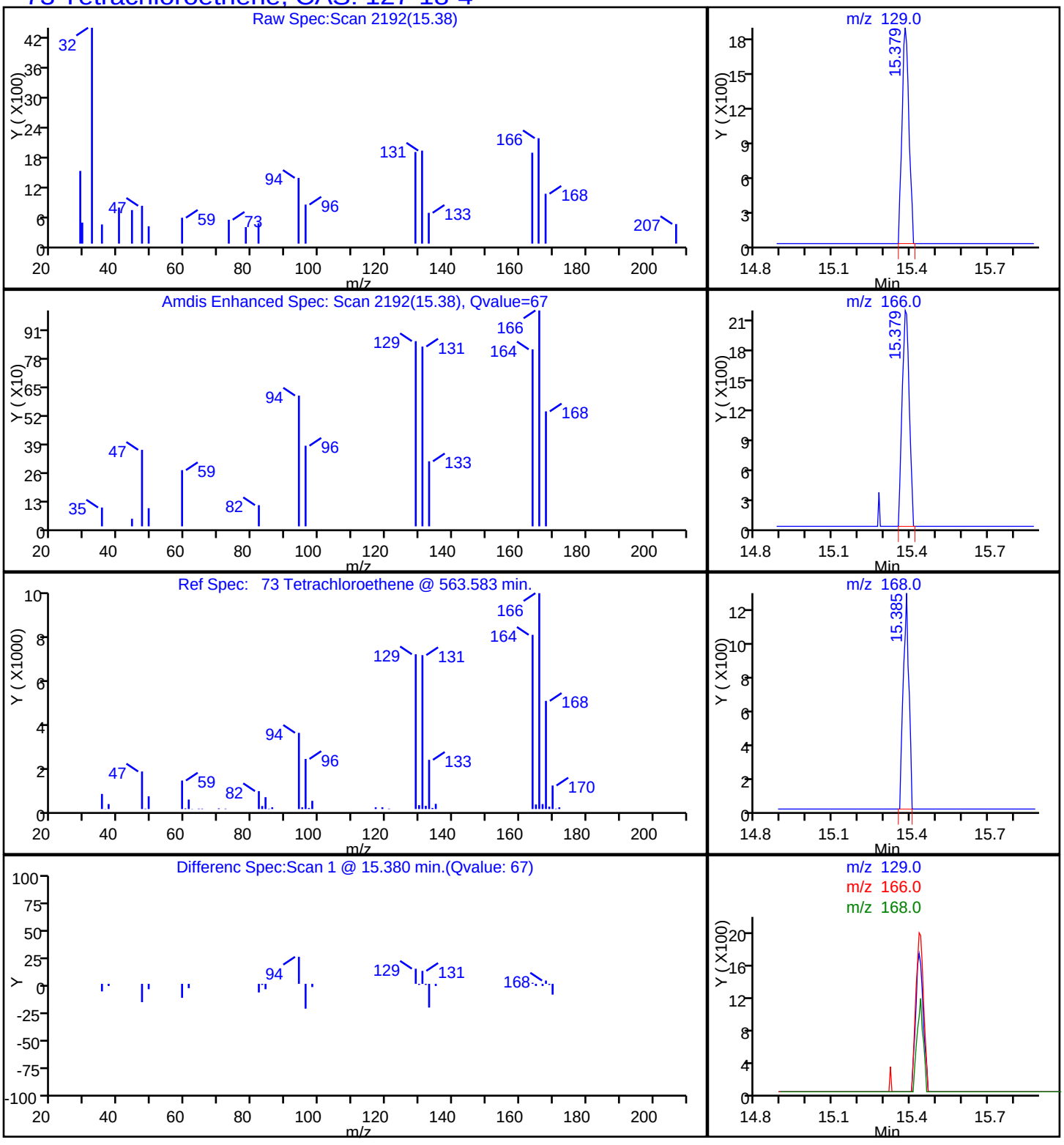
Operator ID: 403648 ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



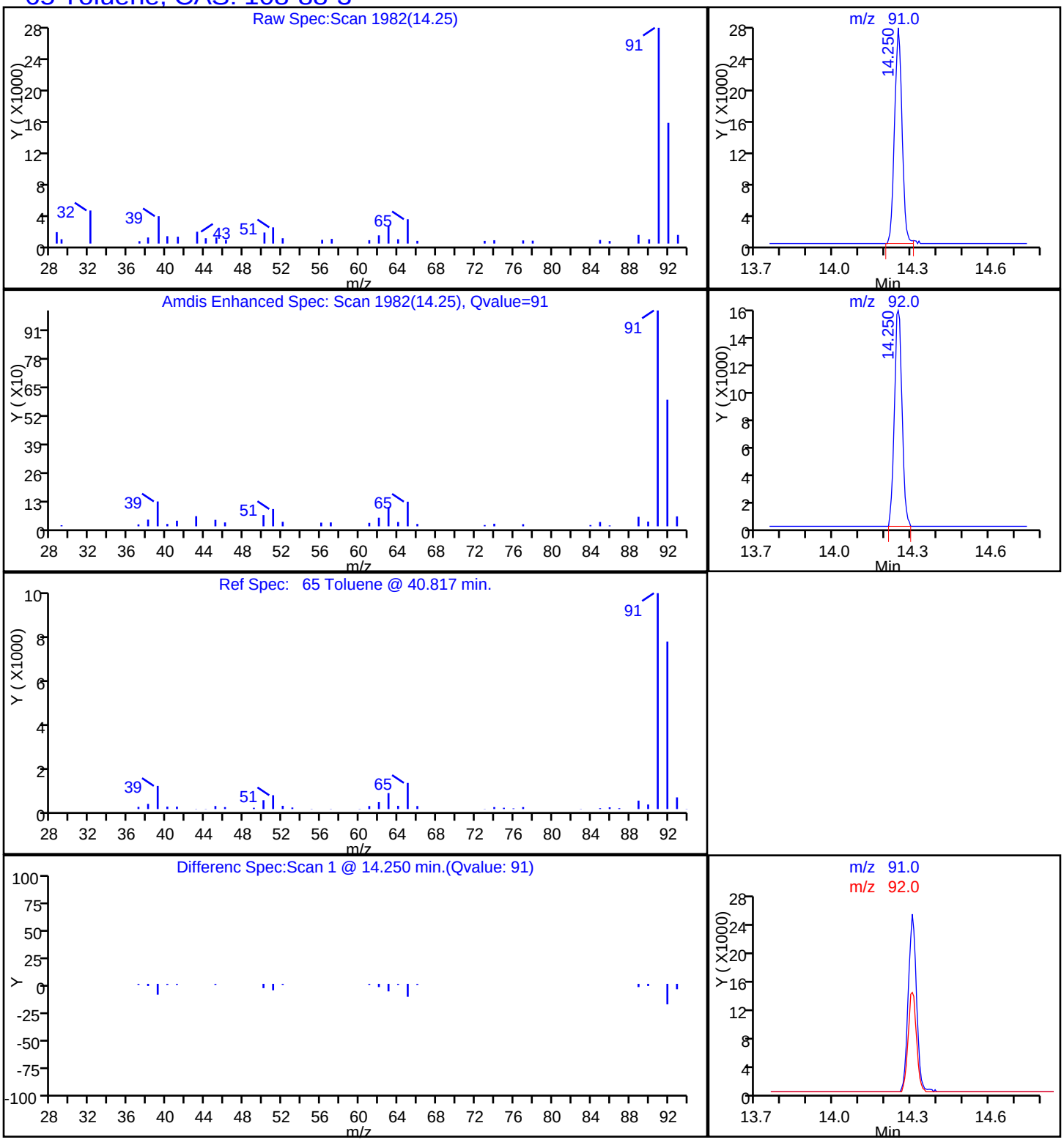
Report Date: 20-Mar-2014 12:50:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



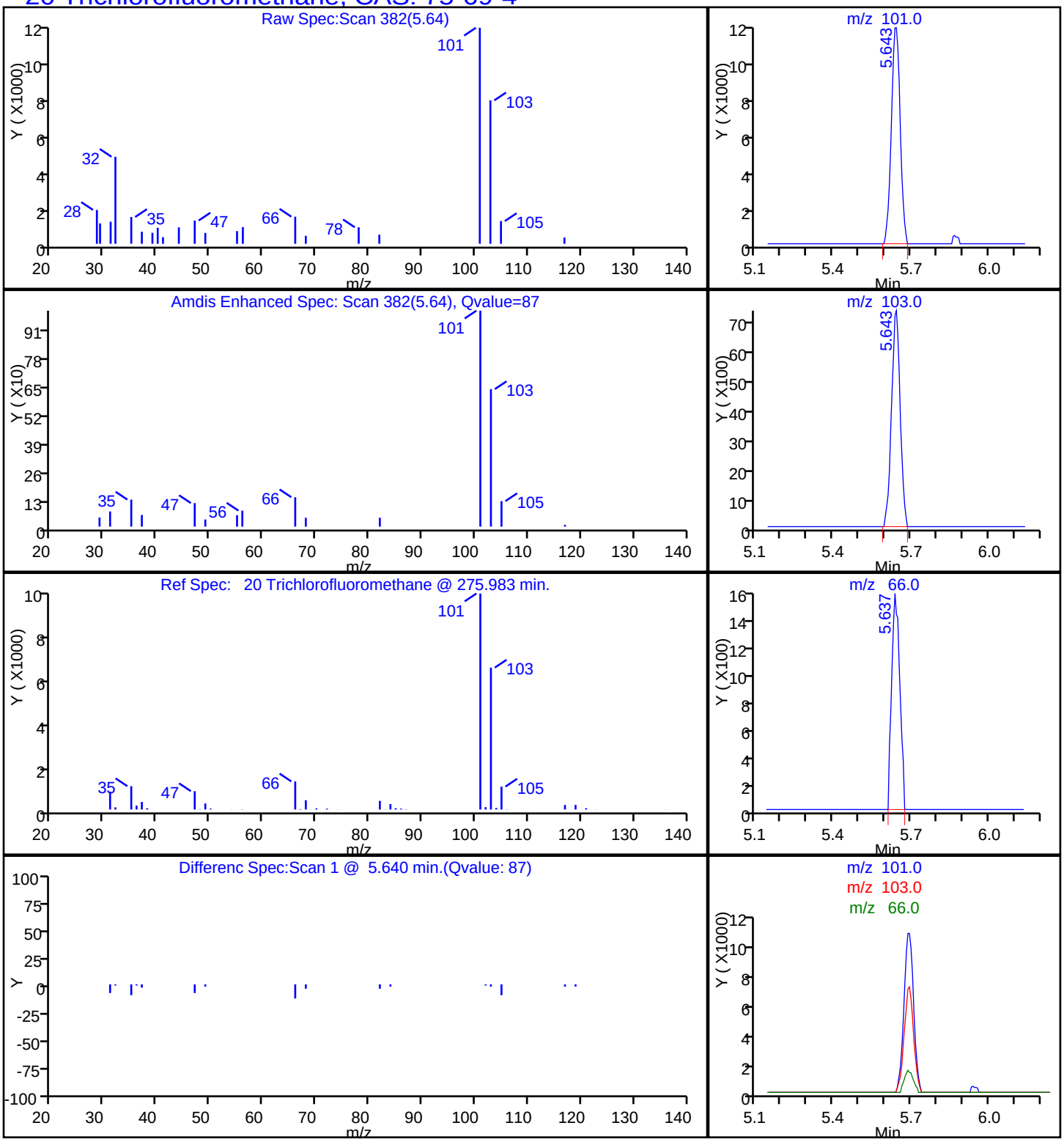
Report Date: 20-Mar-2014 12:50:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date:	19-Mar-2014 21:18:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-21	Lab Sample ID:	140-1063-21		
Client ID:	IA1-E19				
Operator ID:	403648	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22

Matrix: Air Lab File ID: JC19P107.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.051	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.26		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.056	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.30	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.47	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.14	J	0.50	0.045
67-64-1	Acetone	58.08	2.9	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22

Matrix: Air Lab File ID: JC19P107.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.058	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.14	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	160		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.084	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	6.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.20		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.075	J	0.20	0.061
115-07-1	Propene	42.08	0.93	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.067	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.58		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22

Matrix: Air Lab File ID: JC19P107.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22

Matrix: Air Lab File ID: JC19P107.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.28	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.5		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.26	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.88	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.4	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.57	J	2.0	0.18
67-64-1	Acetone	58.08	6.9	J	12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 | Lab Sample ID: 140-1063-22

Matrix: Air | Lab File ID: JC19P107.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) | Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 976 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.37	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.68	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	300		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.34	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.42	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	15		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.85		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.33	J	0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.46	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22

Matrix: Air Lab File ID: JC19P107.D

Analysis Method: TO-15 Date Collected: 03/13/2014 17:05

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D
Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22
Client ID: IA2-E19
Sample Type: Client
Inject. Date: 19-Mar-2014 22:12:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-22
Misc. Info.: J031914,TO15,,140-0000532-013
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 26-Mar-2014 13:30:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: liul Date: 26-Mar-2014 13:30:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	90	363785	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1764672	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1503623	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	1001234	3.76	
7 Propene	41	3.987	3.973	0.014	86	41384	0.3710	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	96	63128	0.1752	
9 Chloromethane	52	4.229	4.229	-0.002	97	9152	0.2236	M
17 Ethanol	31	5.122	5.119	0.003	94	1834416	62.8	
19 2-Methylbutane	43	5.407	5.409	-0.002	91	29244	0.1893	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	91	31100	0.0982	
23 Acetone	58	5.767	5.770	-0.003	91	60051	1.16	
24 Isopropyl alcohol	45	5.859	5.850	0.009	98	338890	2.48	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.582	-0.002	64	5737	0.0262	
31 Methylene Chloride	84	6.752	6.754	-0.002	96	19932	0.2048	
39 2-Butanone (MEK)	72	8.602	8.589	0.013	82	4116	0.1195	
40 Hexane	56	8.634	8.637	-0.003	71	4613	0.0472	
43 Chloroform	83	9.388	9.396	-0.008	15	11749	0.0554	
45 1,1,1-Trichloroethane	97	10.437	10.439	-0.002	19	4475	0.0203	
48 Benzene	78	11.018	11.026	-0.008	90	28829	0.0952	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	84	5850	0.0234	
53 Isooctane	57	11.755	11.763	-0.008	75	11659	0.0226	
54 n-Heptane	71	12.115	12.123	-0.008	80	3595	0.0336	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.371	0.008	85	10219	0.0552	
65 Toluene	91	14.251	14.253	-0.002	92	64353	0.2307	
73 Tetrachloroethene	129	15.380	15.383	-0.003	69	3496	0.0269	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	19403	0.0780	
82 o-Xylene	91	17.209	17.212	-0.003	50	7567	0.0300	
97 1,4-Dichlorobenzene	146	19.291	19.294	-0.003	89	18330	0.1026	

QC Flag Legend

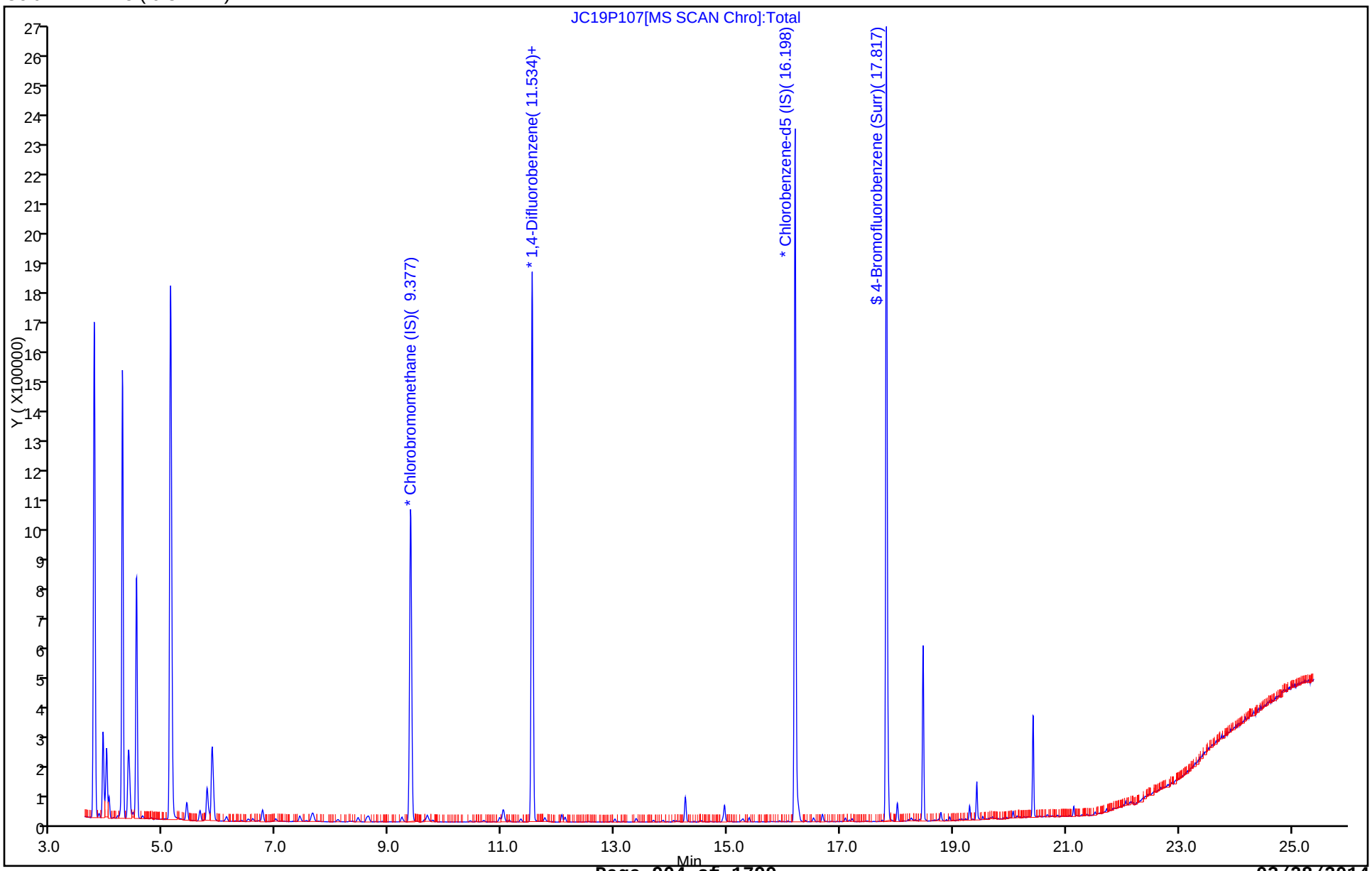
Review Flags
M - Manually Integrated

Report Date: 26-Mar-2014 13:30:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22	Worklist Smp#:	13
Client ID:	IA2-E19				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



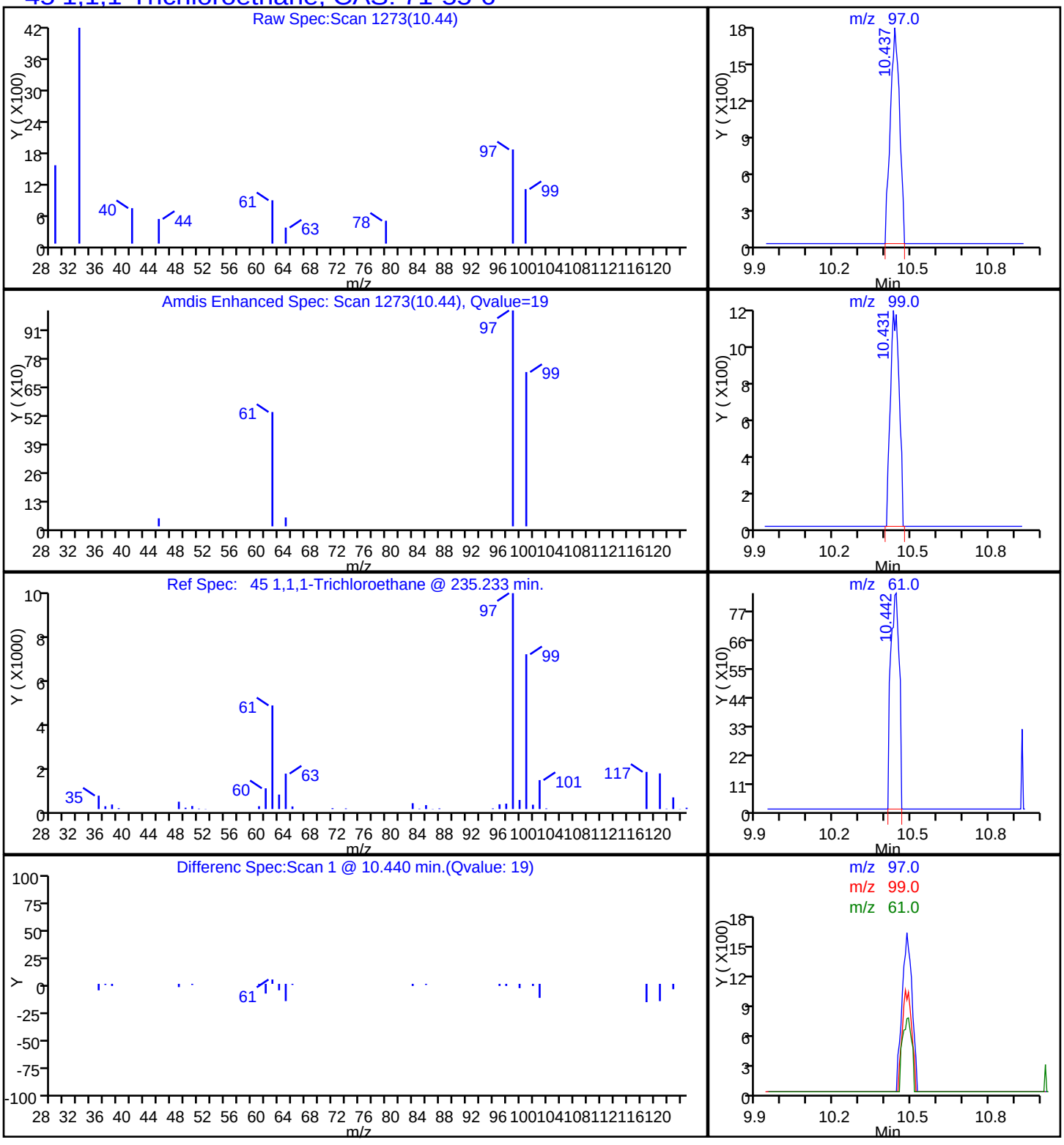
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

45 1,1,1-Trichloroethane, CAS: 71-55-6



Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22

Client ID: IA2-E19

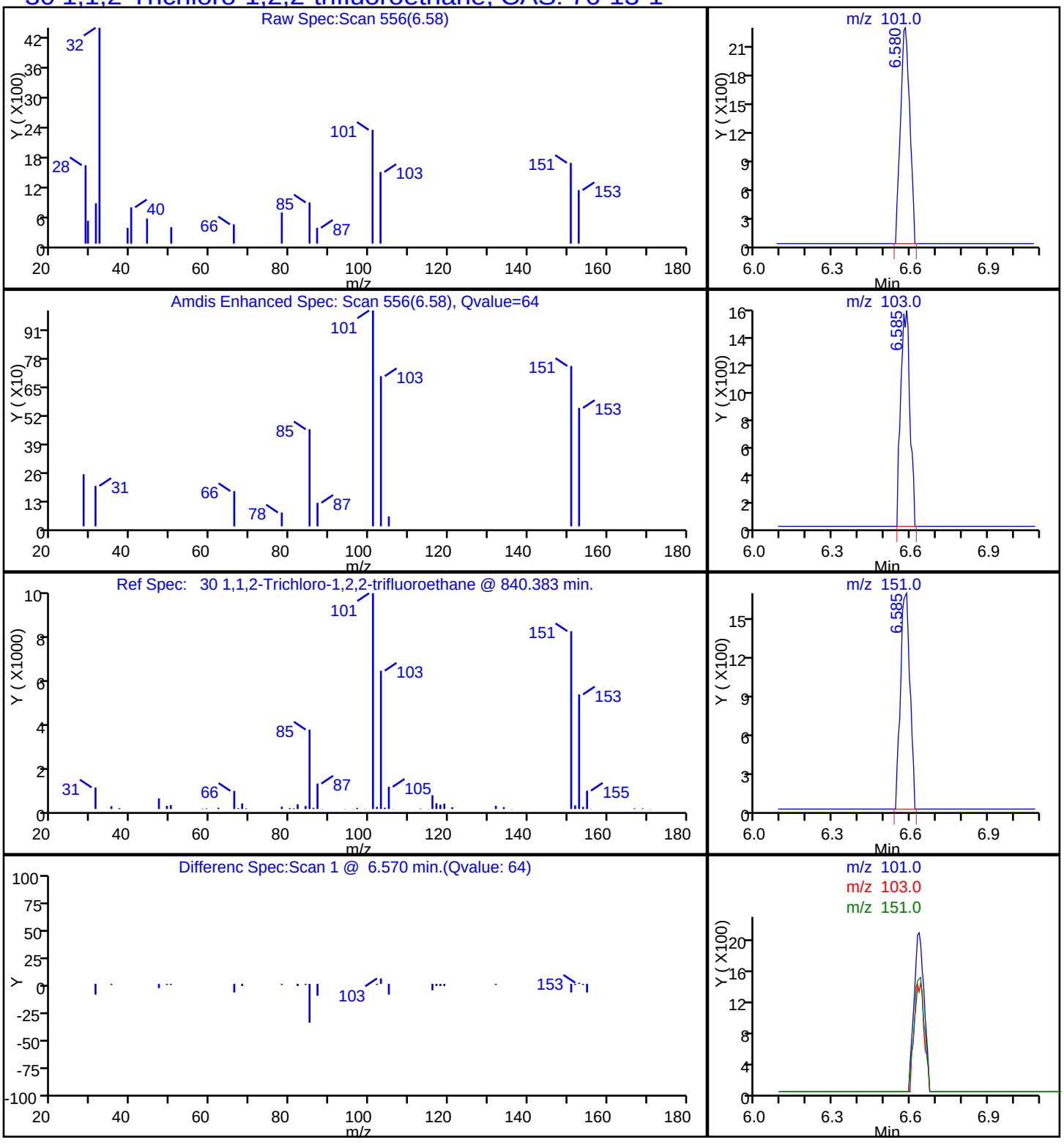
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



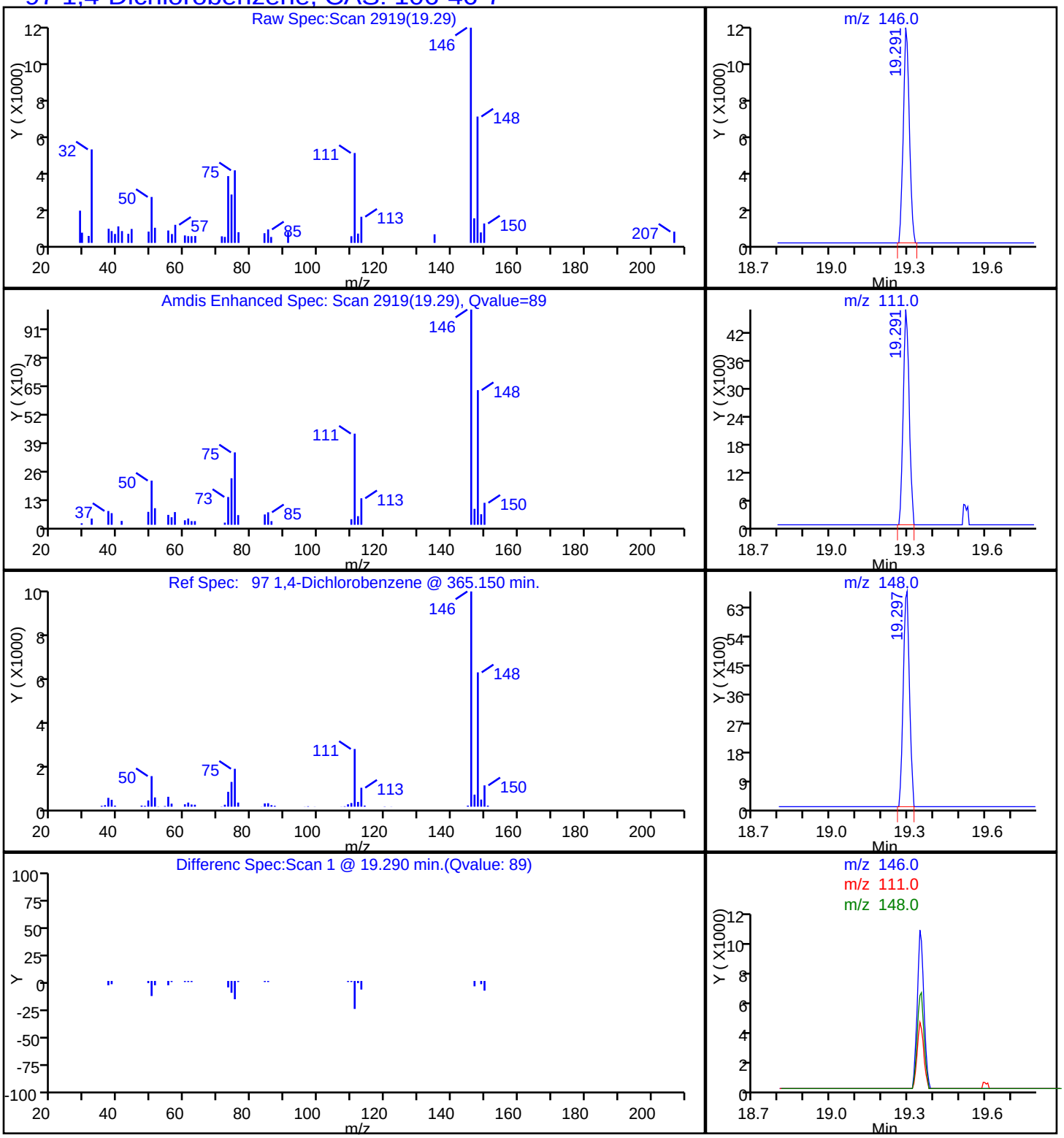
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



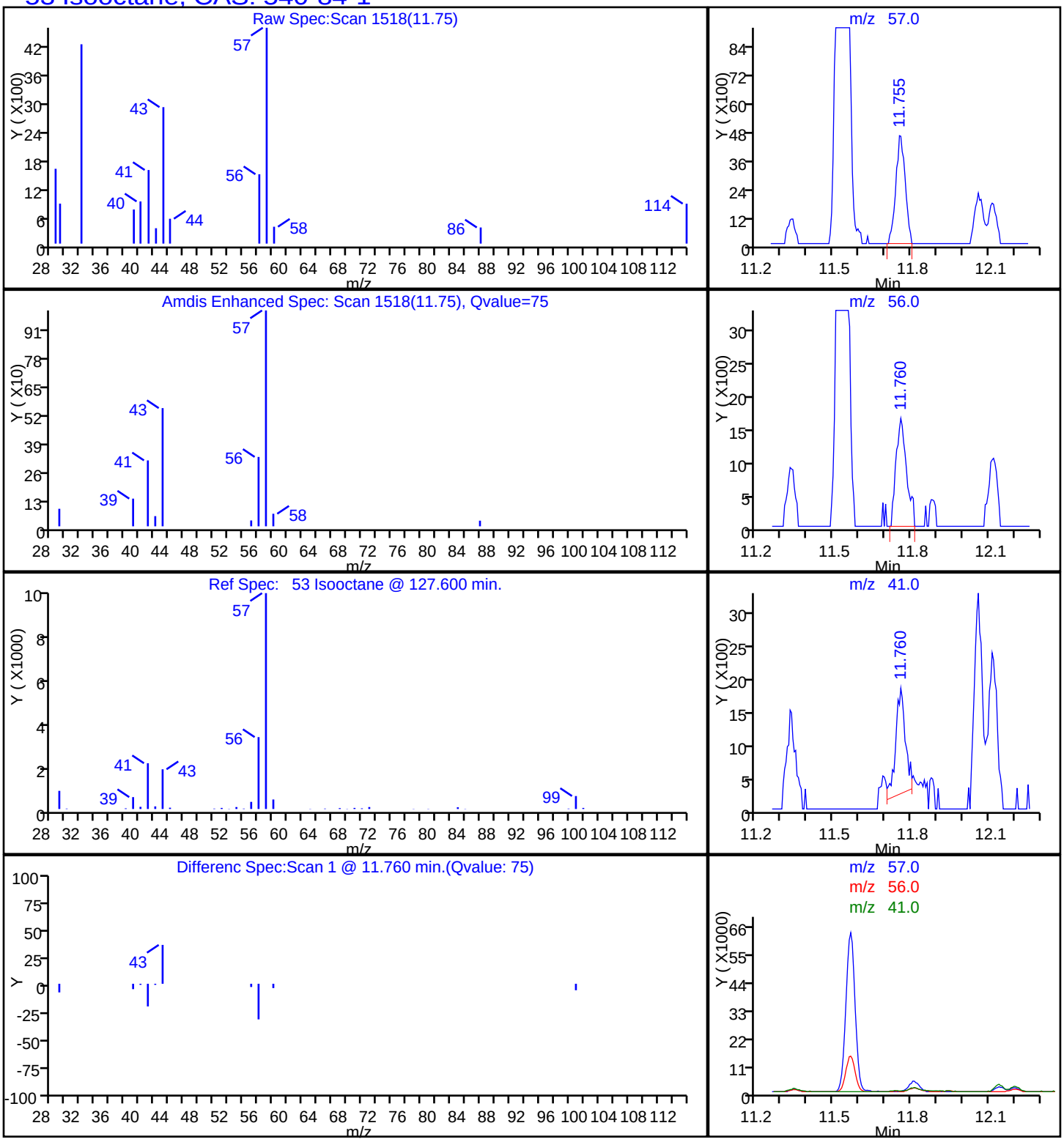
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

53 Isooctane, CAS: 540-84-1



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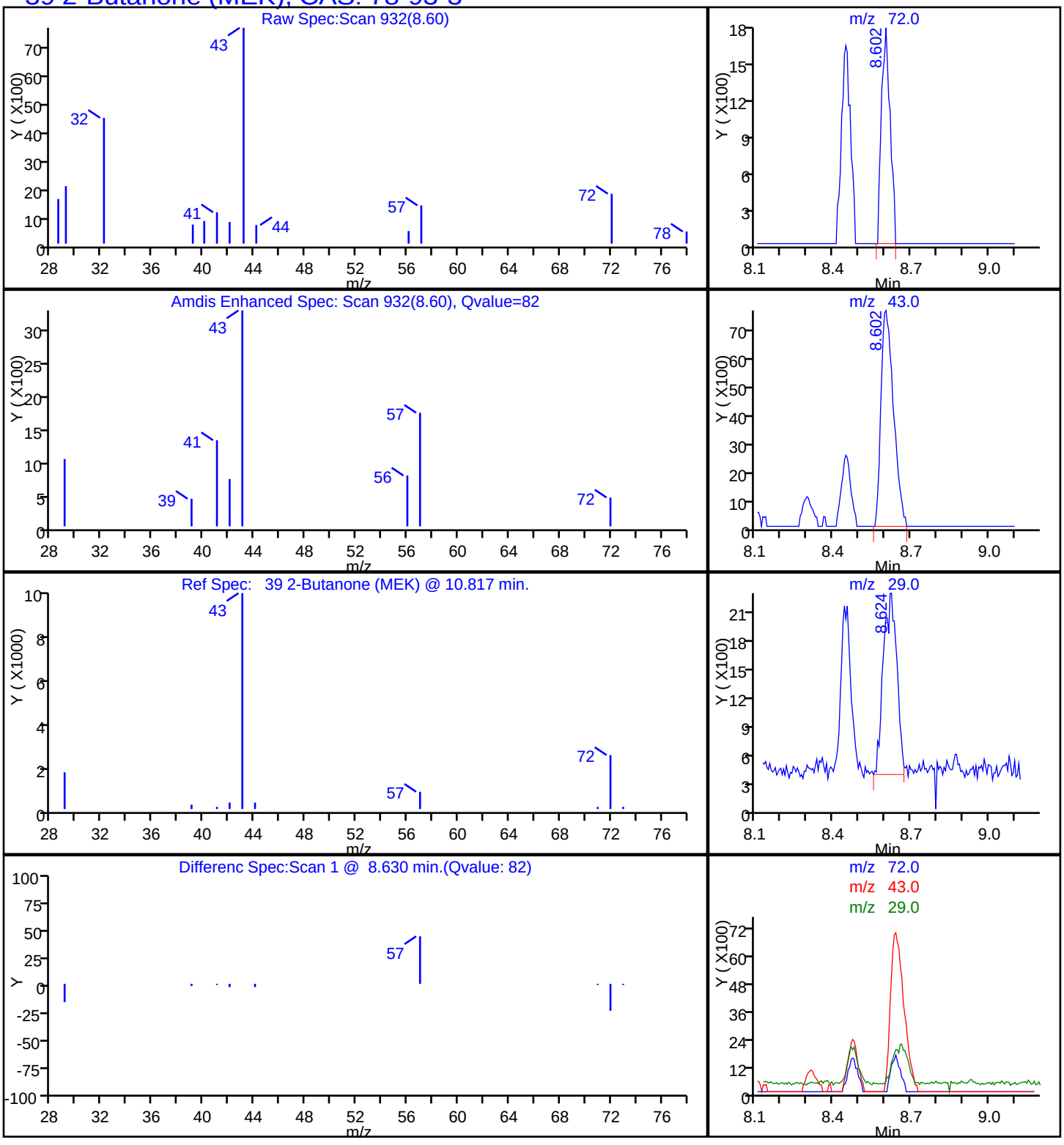
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22

Client ID: IA2-E19

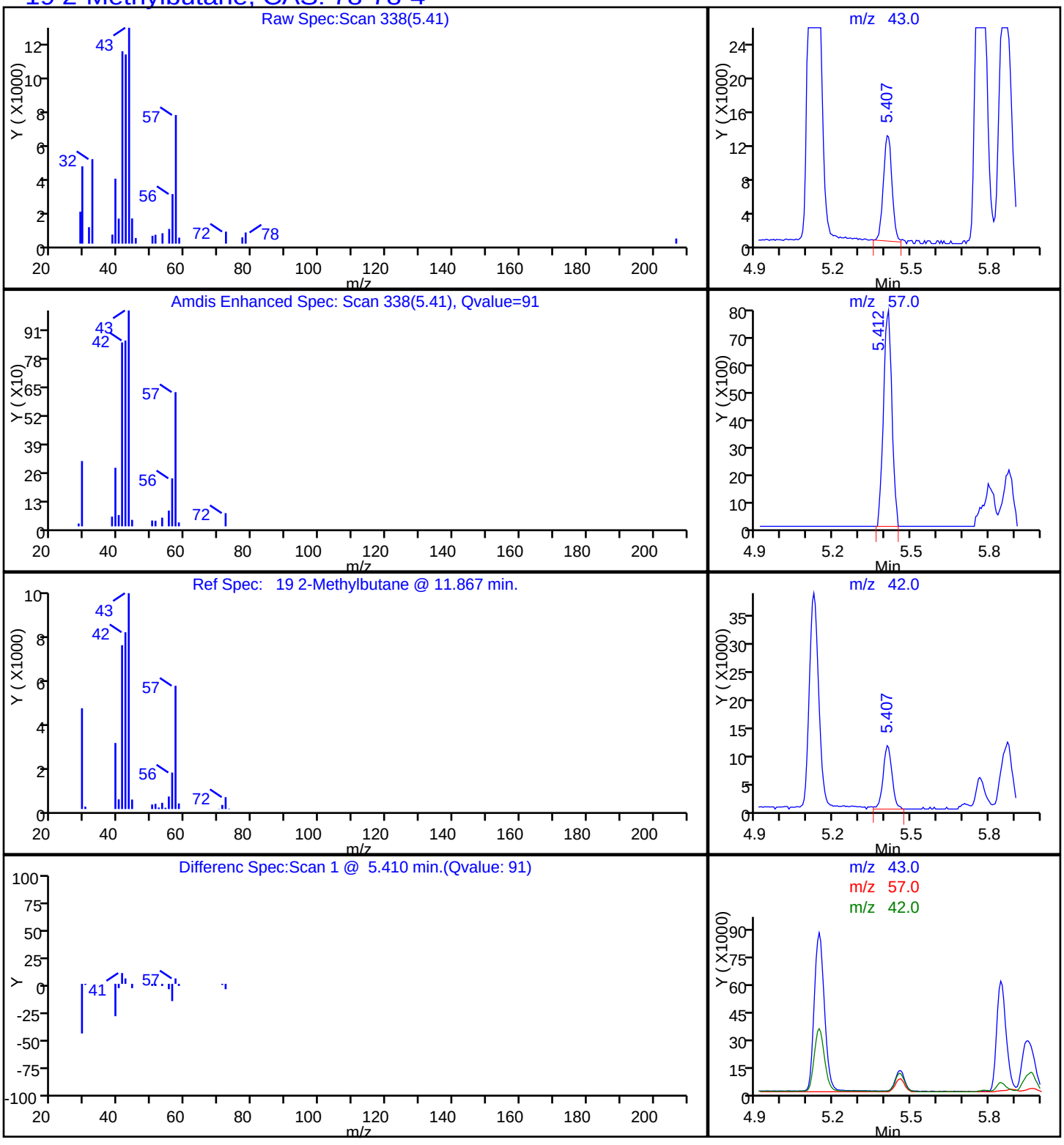
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22

Client ID: IA2-E19

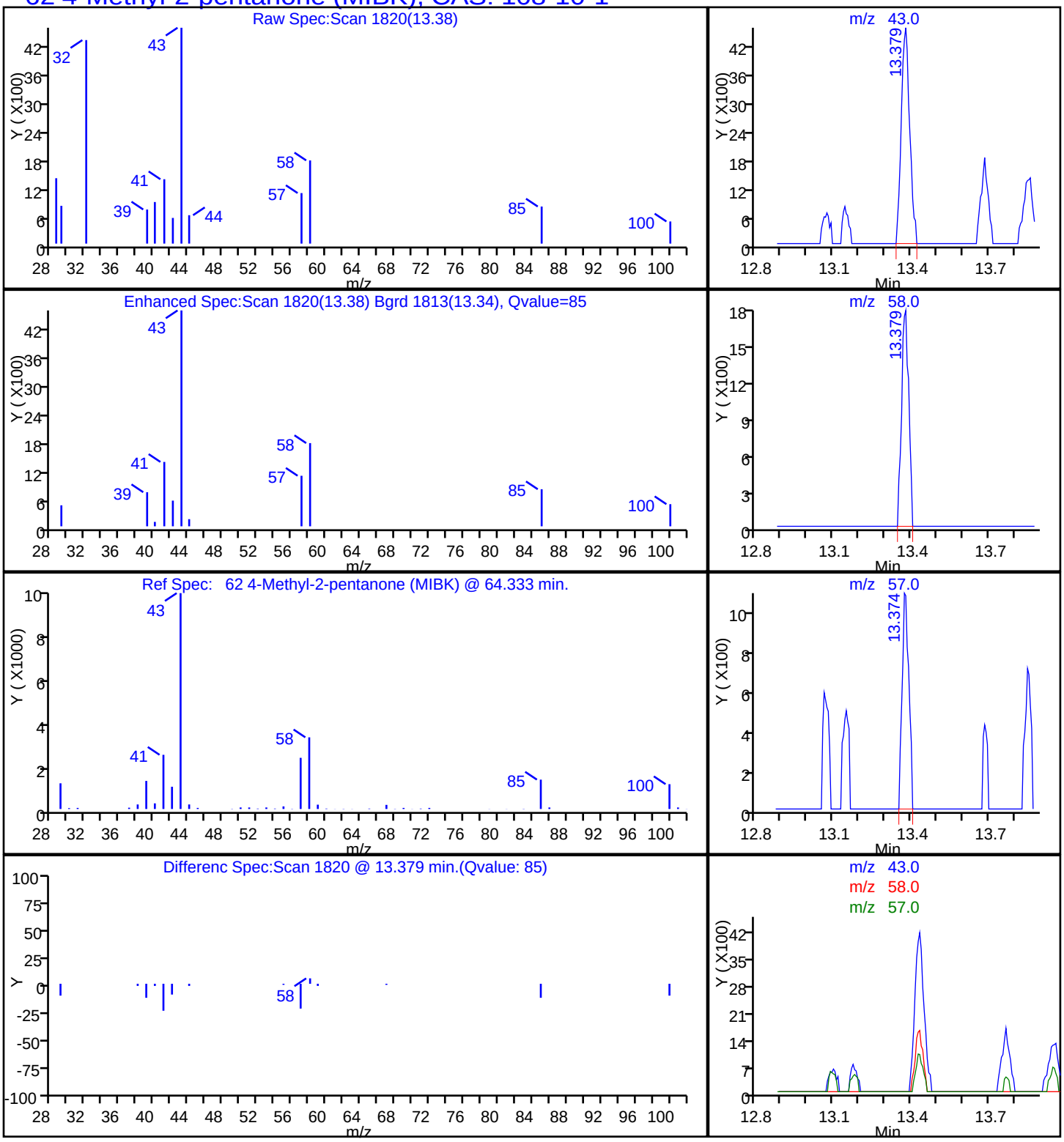
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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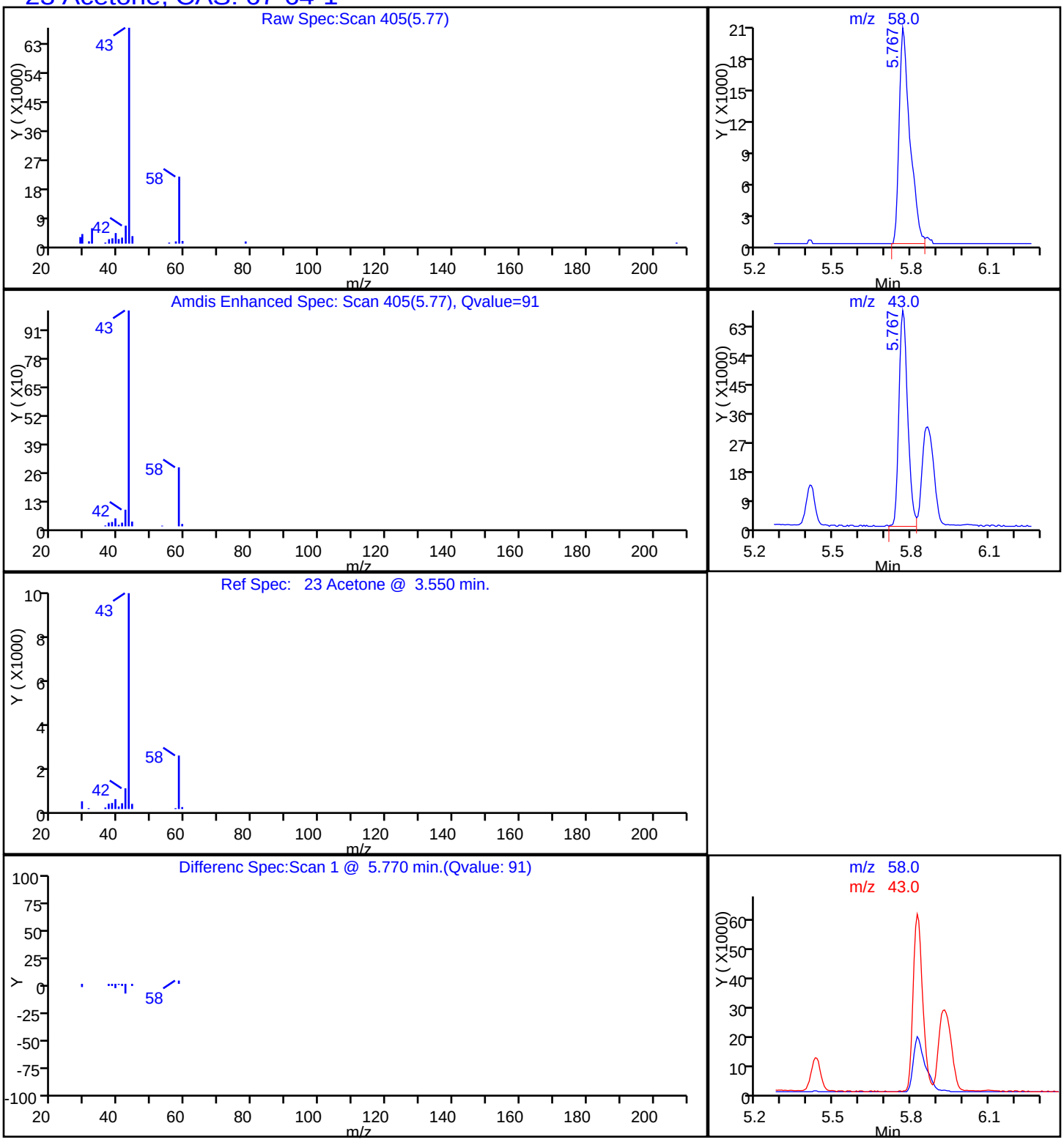
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



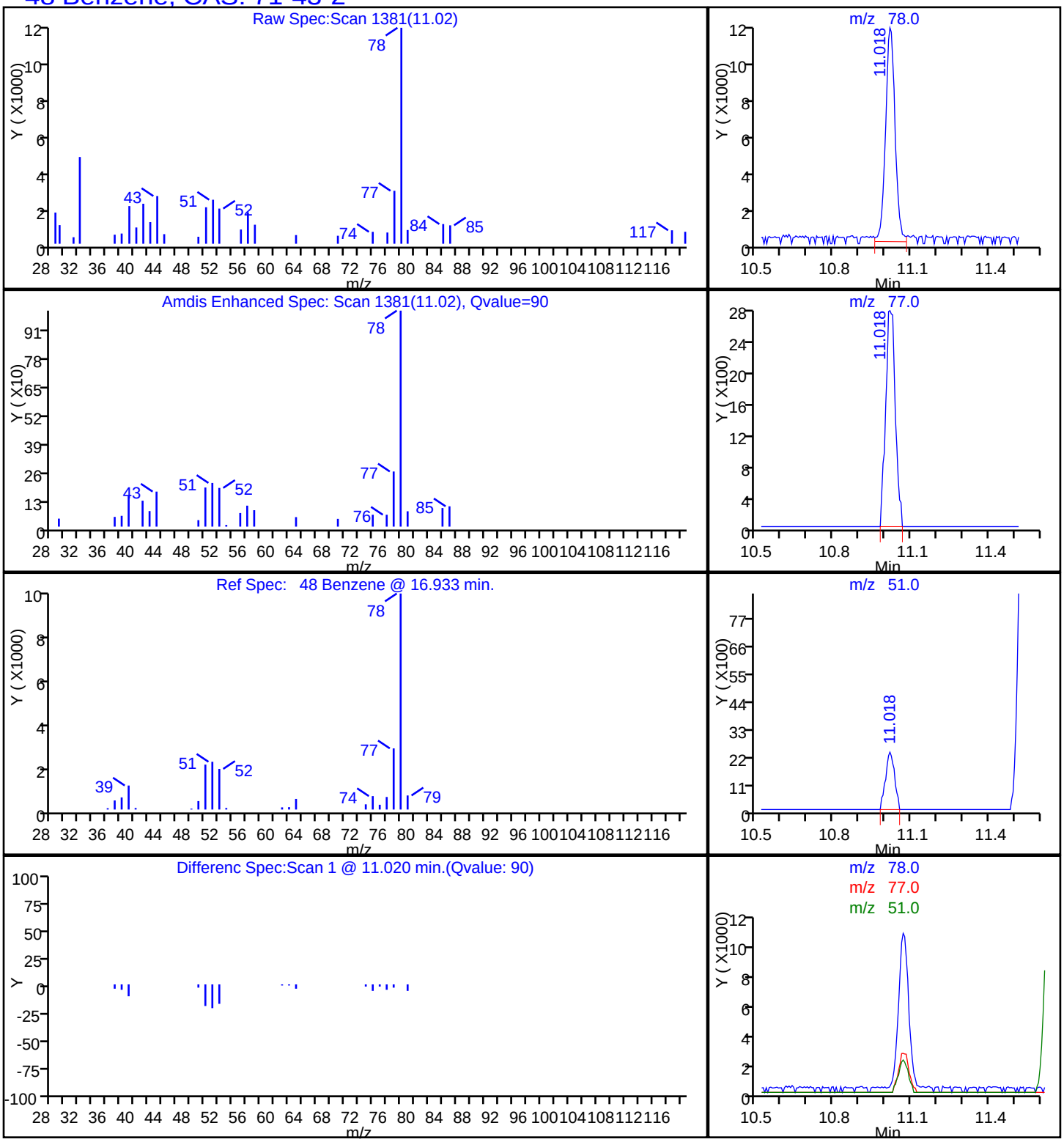
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



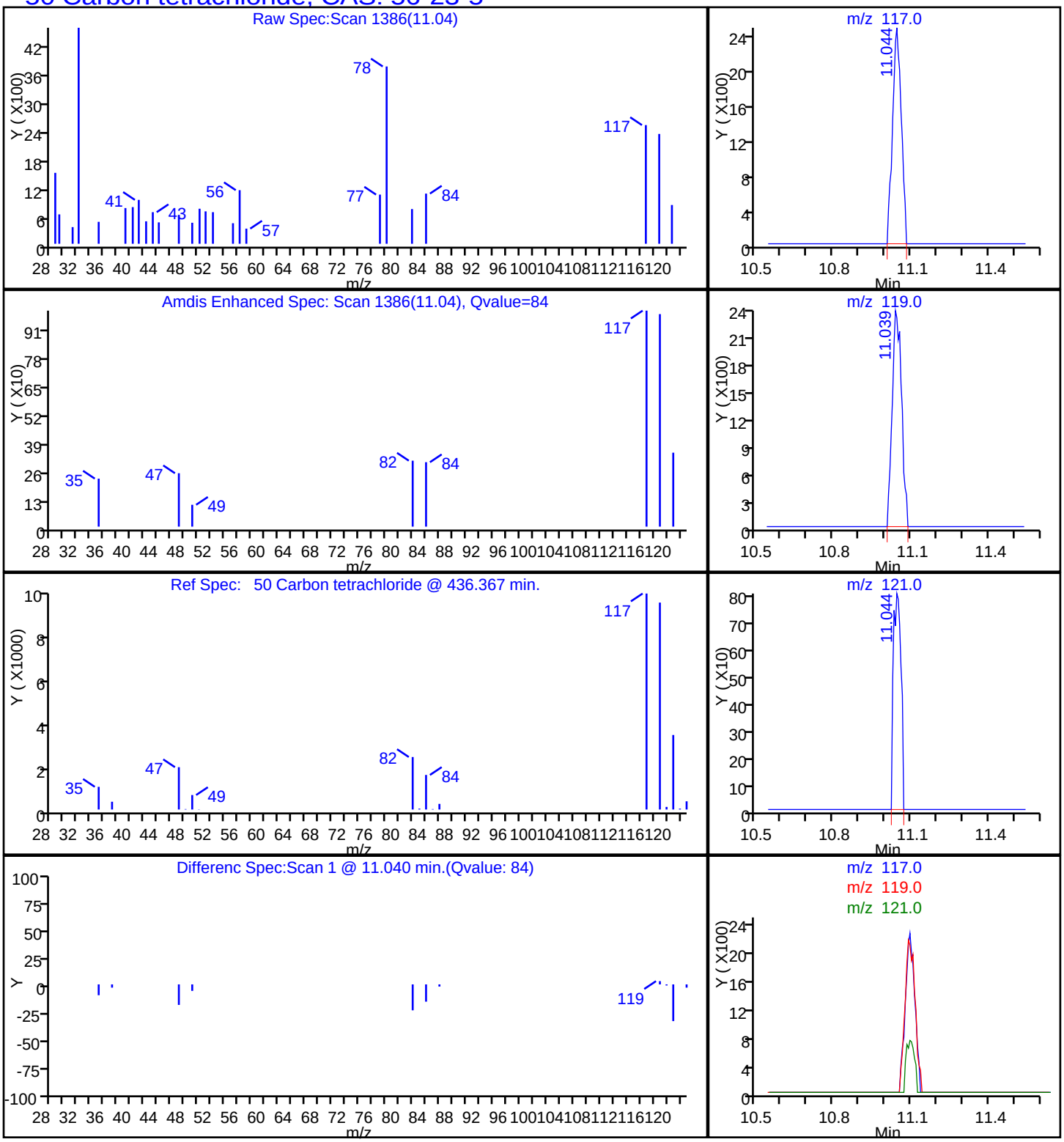
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22

Client ID: IA2-E19

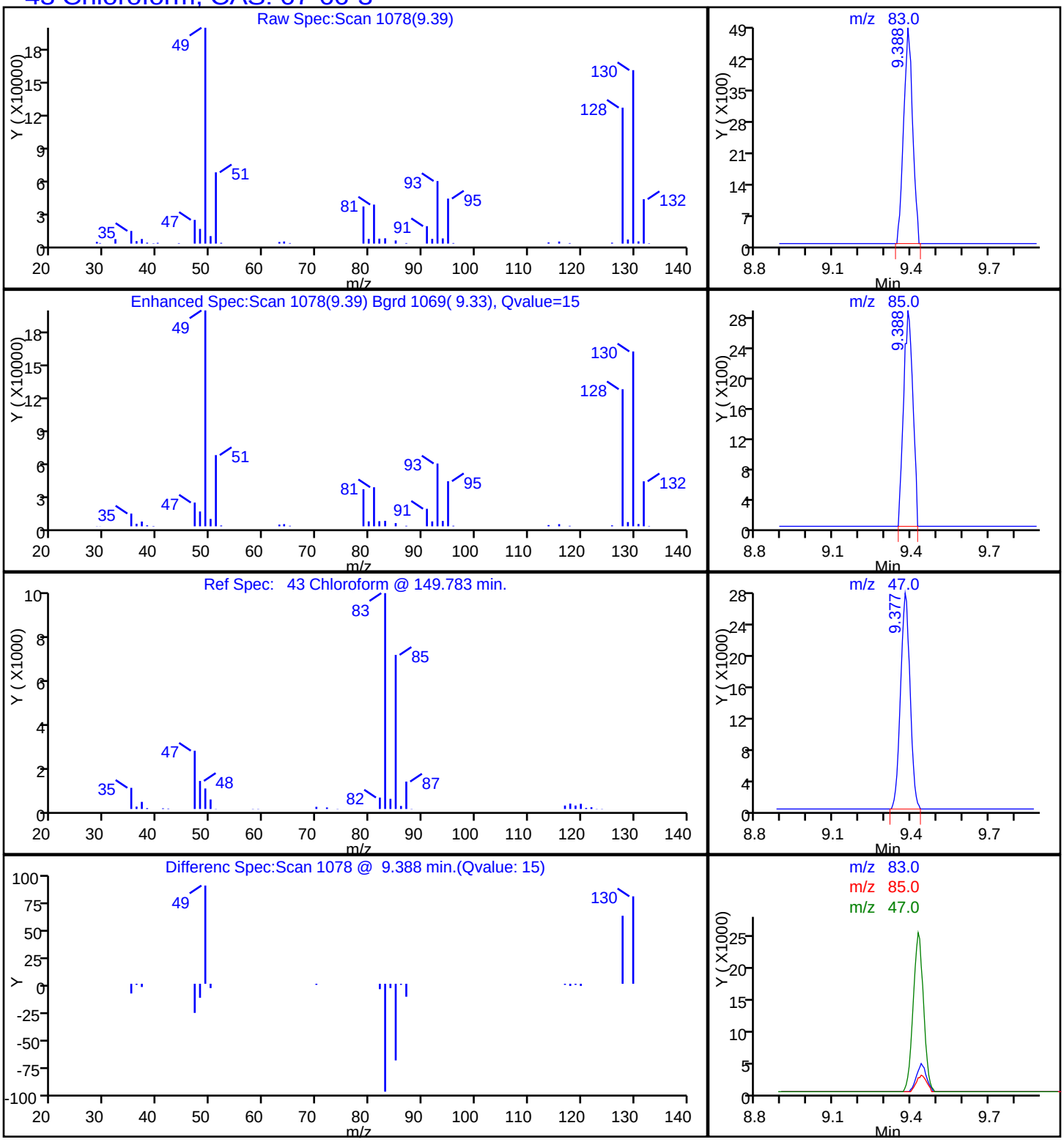
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 26-Mar-2014 13:30:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ

Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22

Client ID: IA2-E19

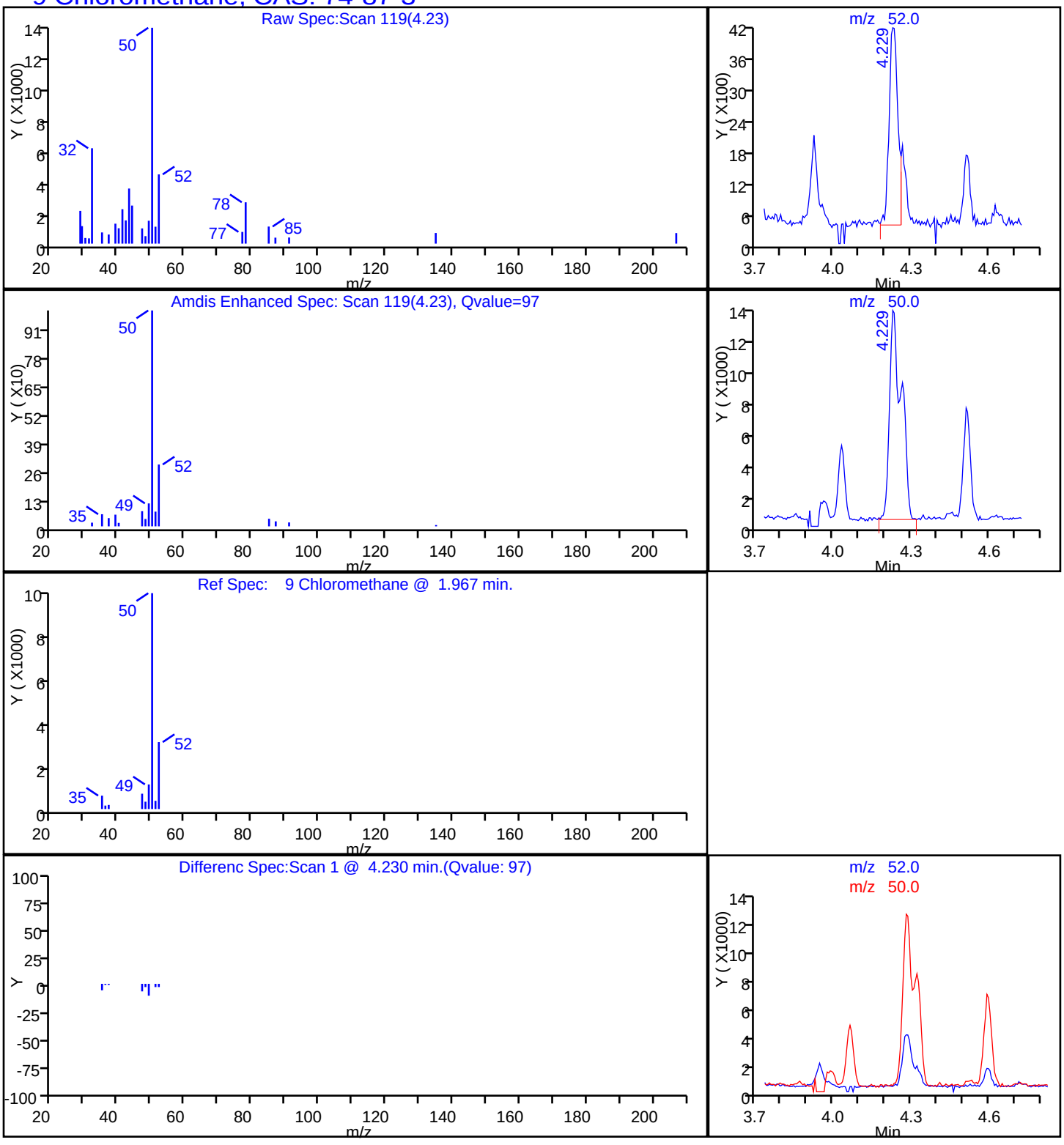
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

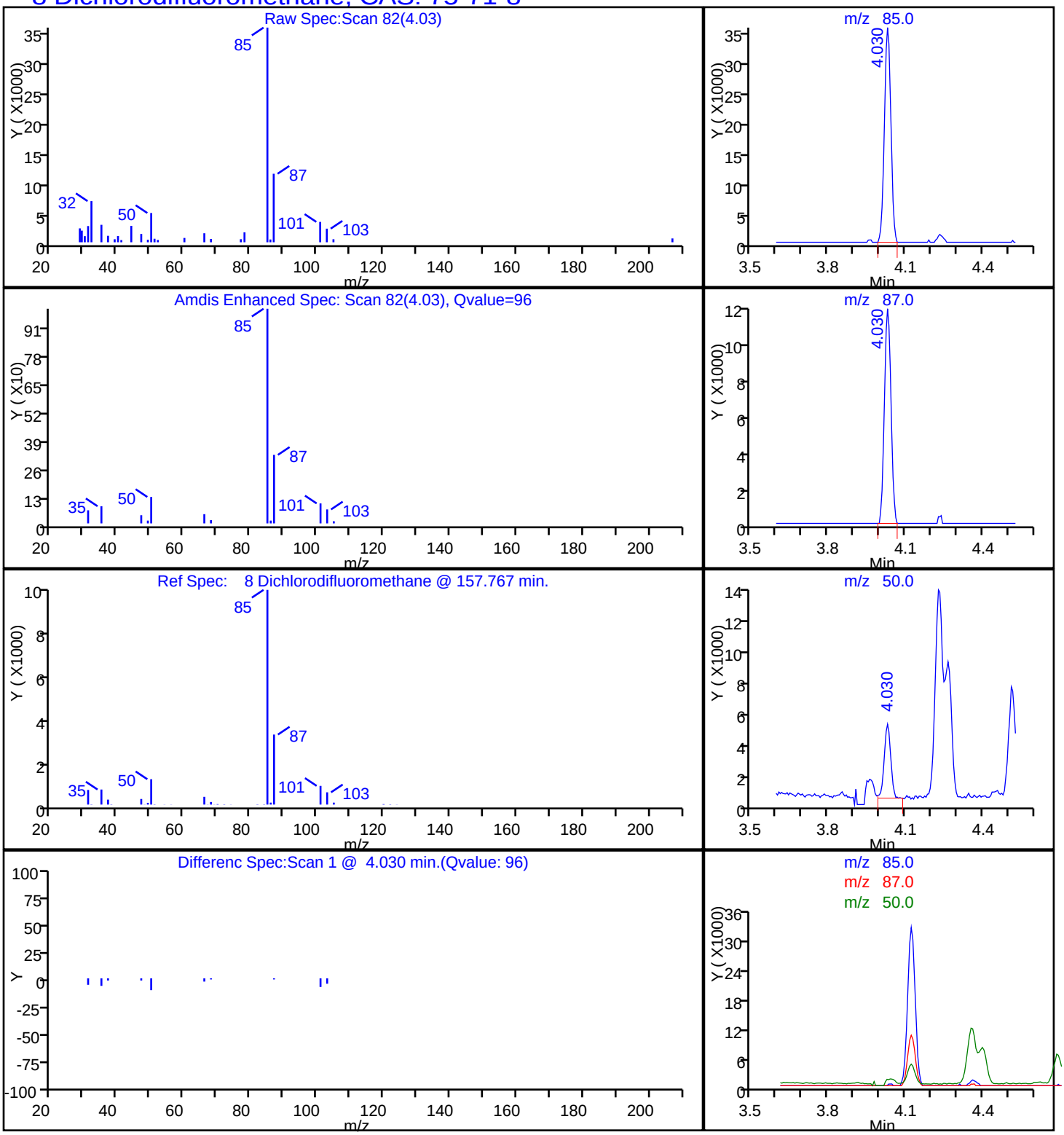
9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



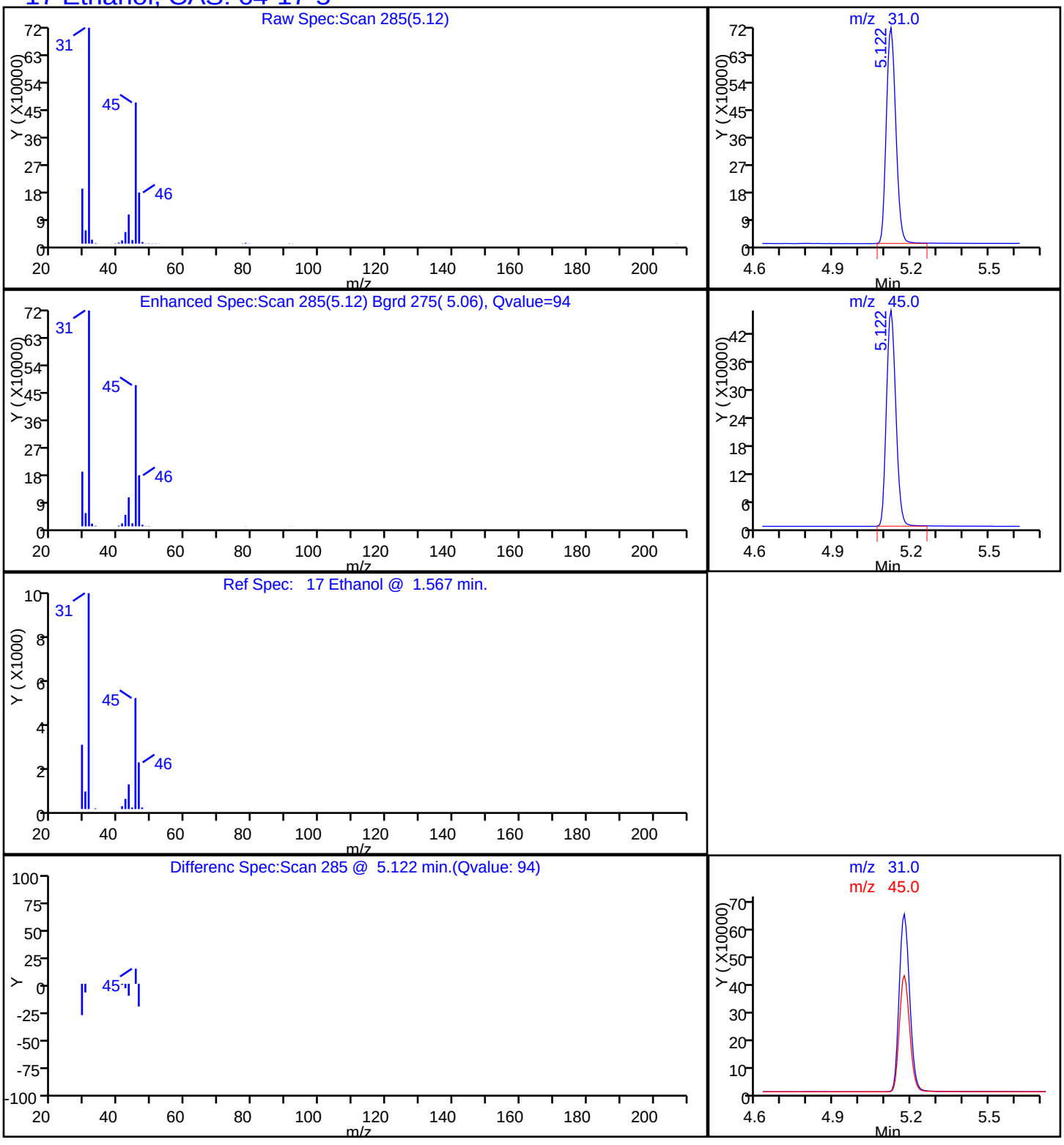
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



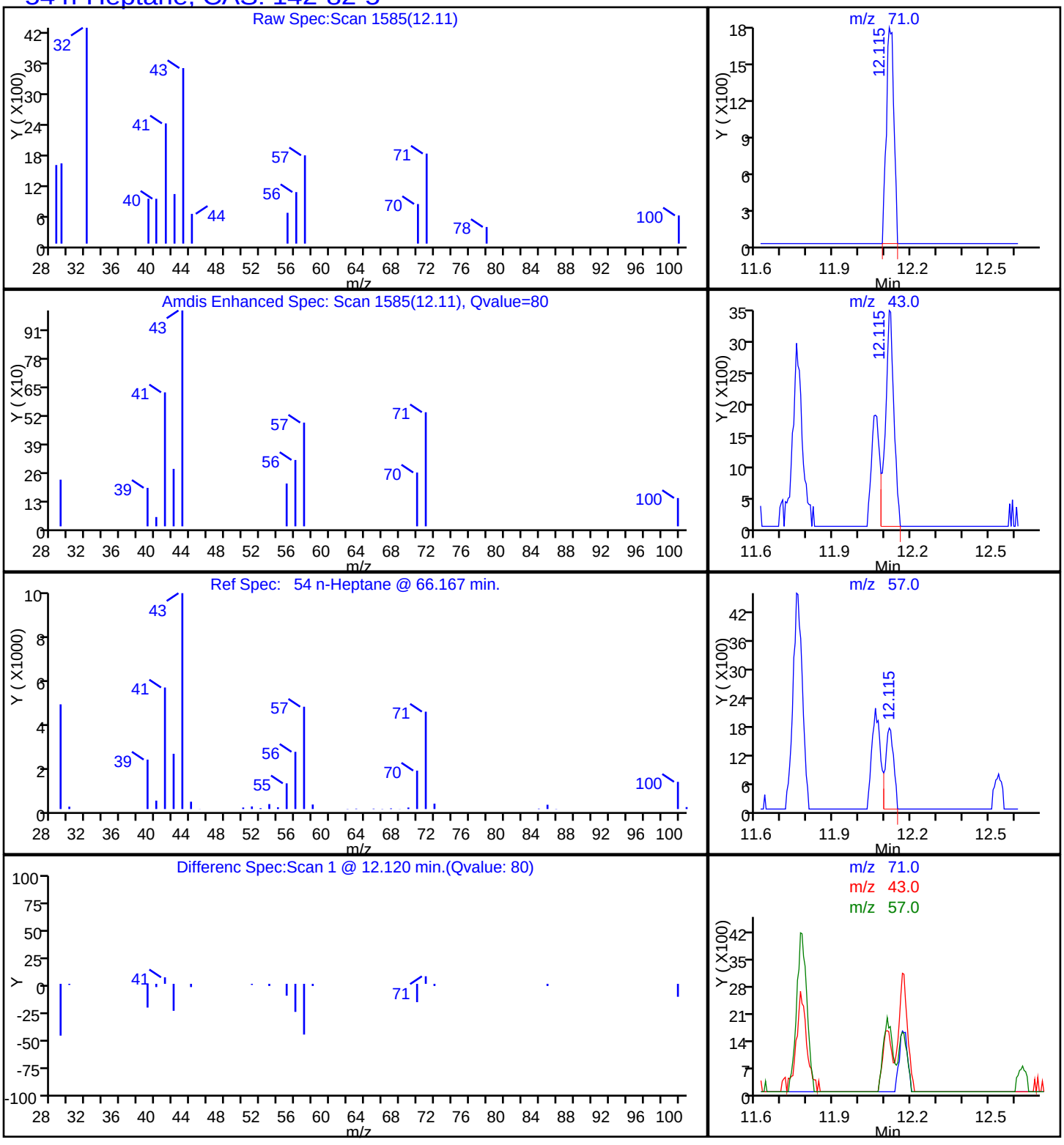
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



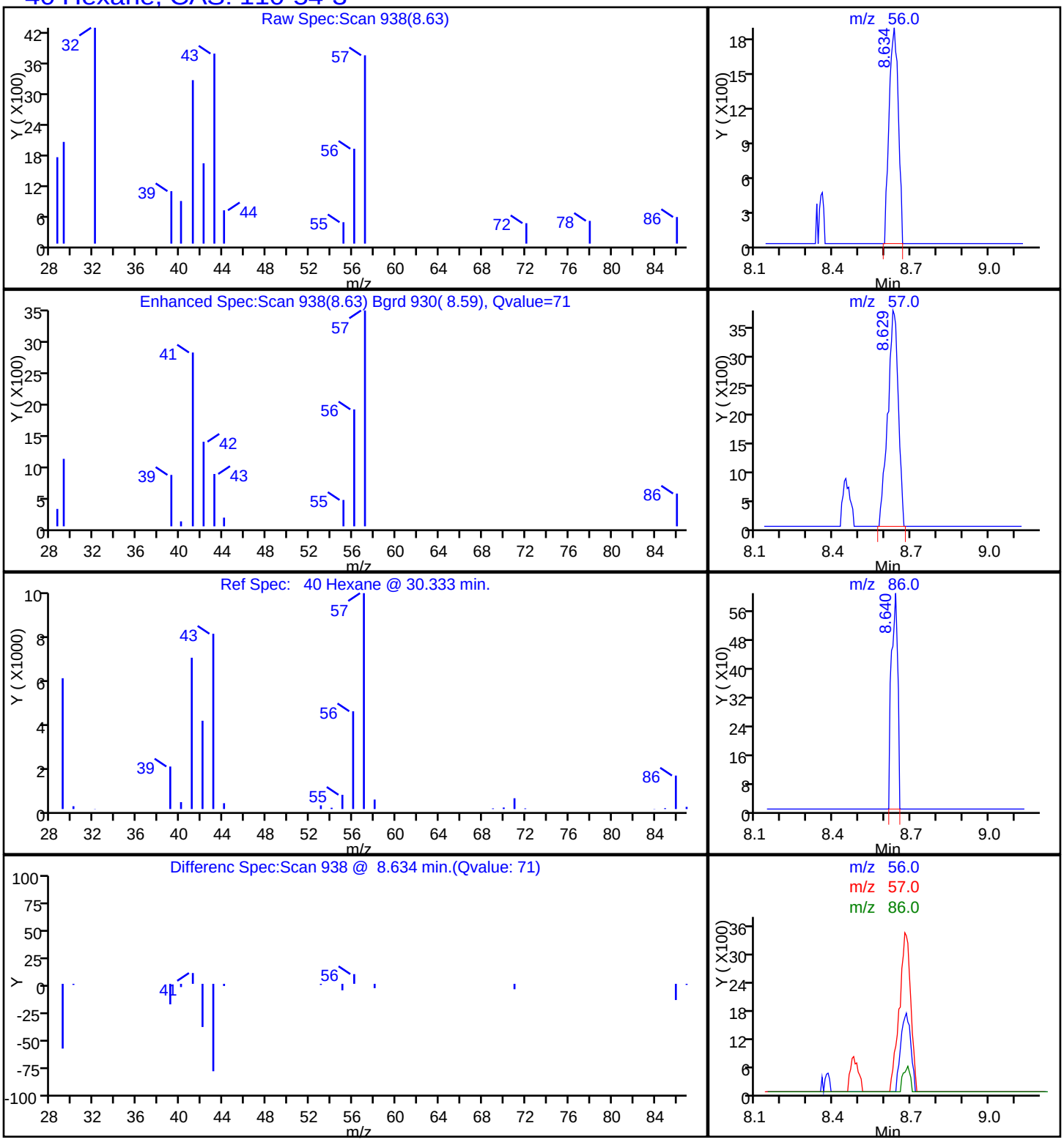
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3



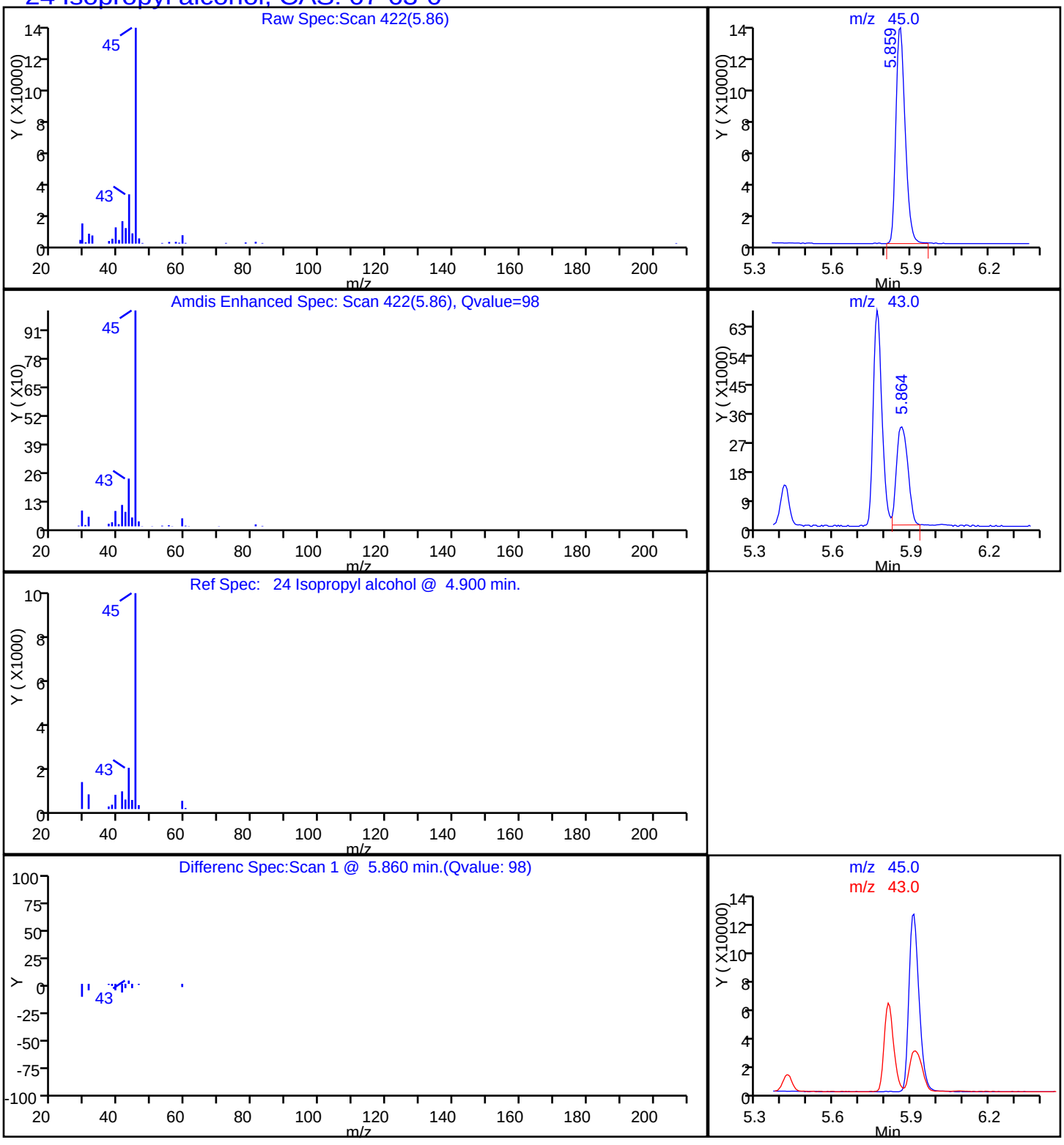
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Isopropyl alcohol, CAS: 67-63-0

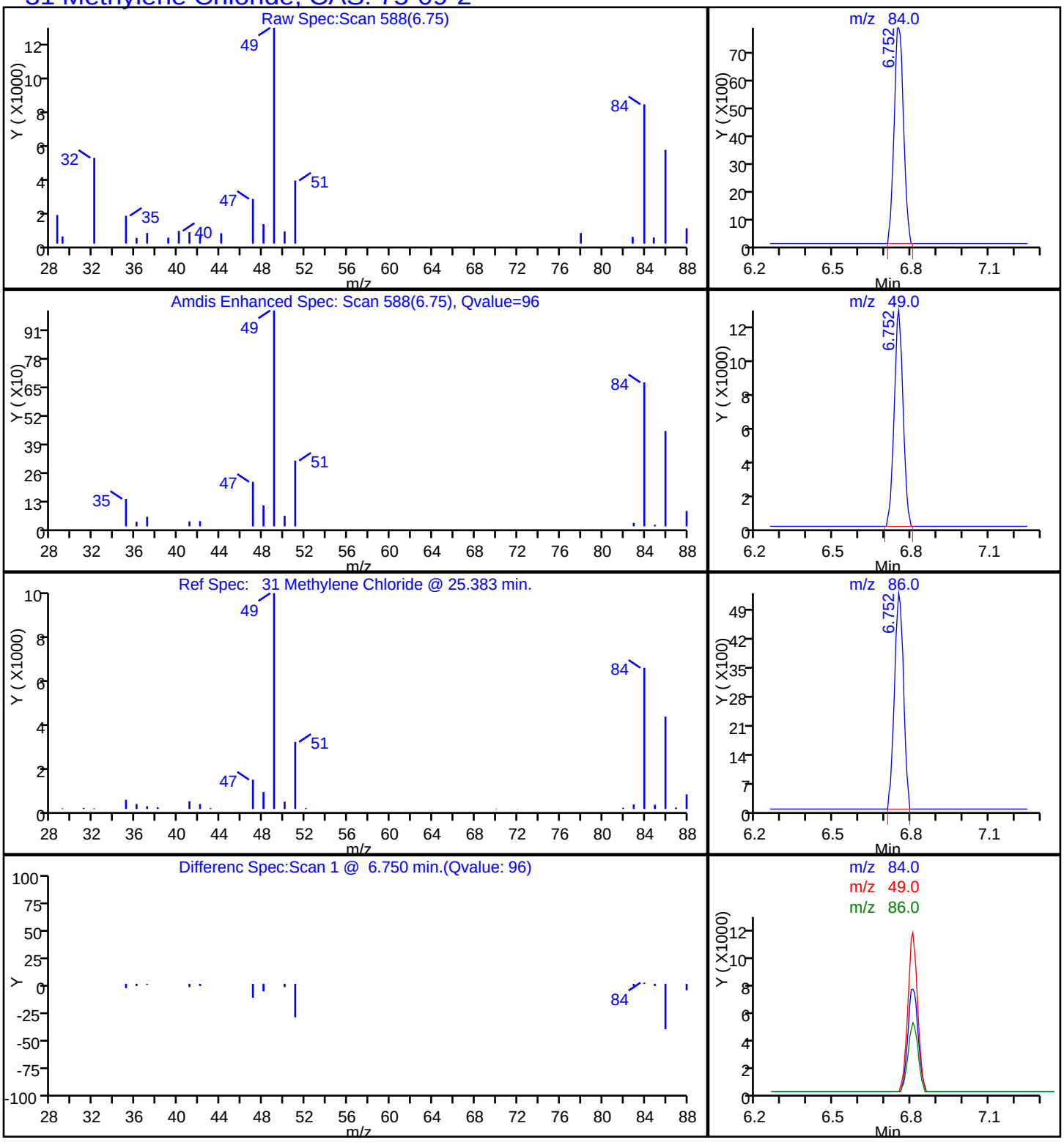


Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

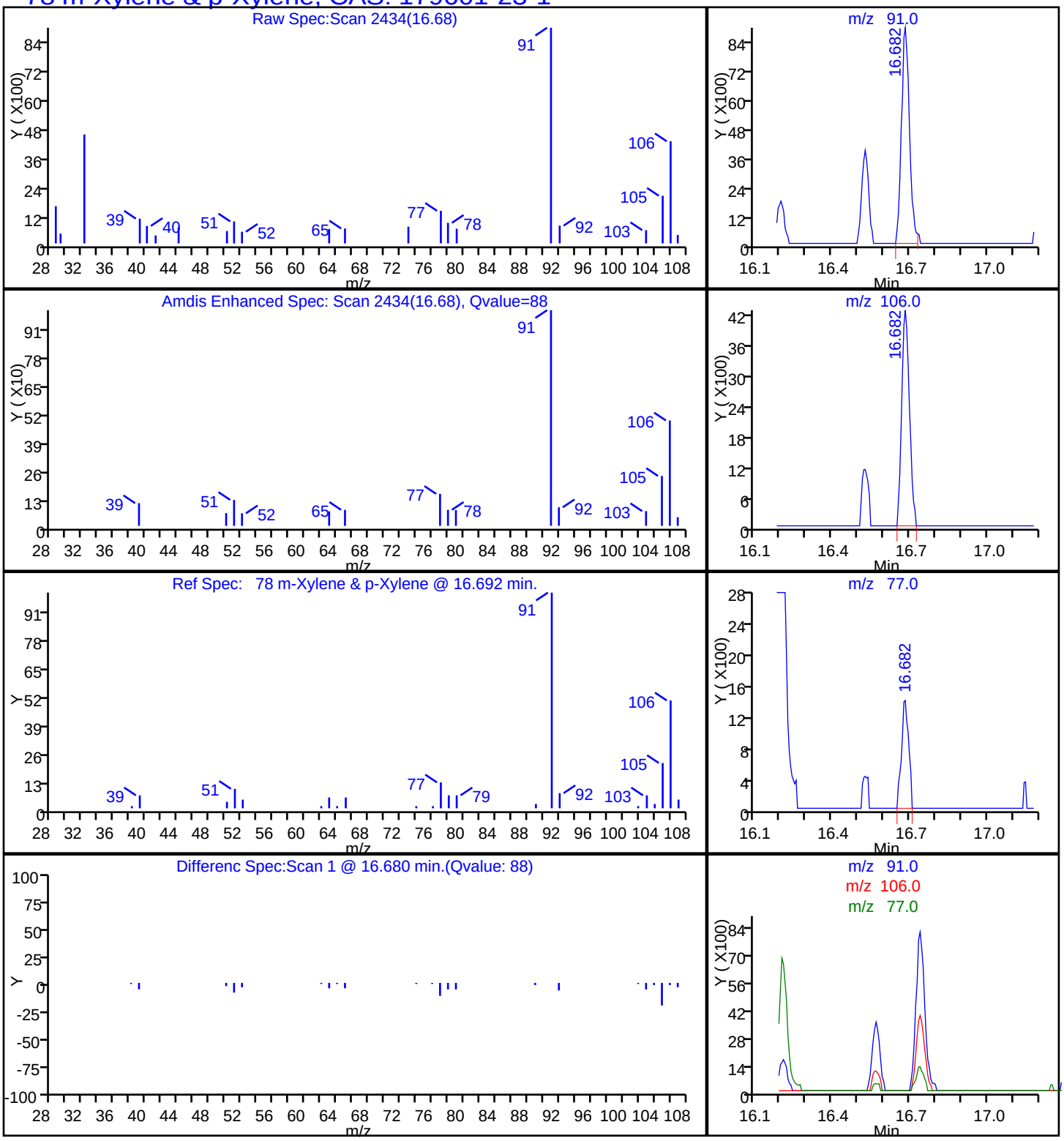


Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



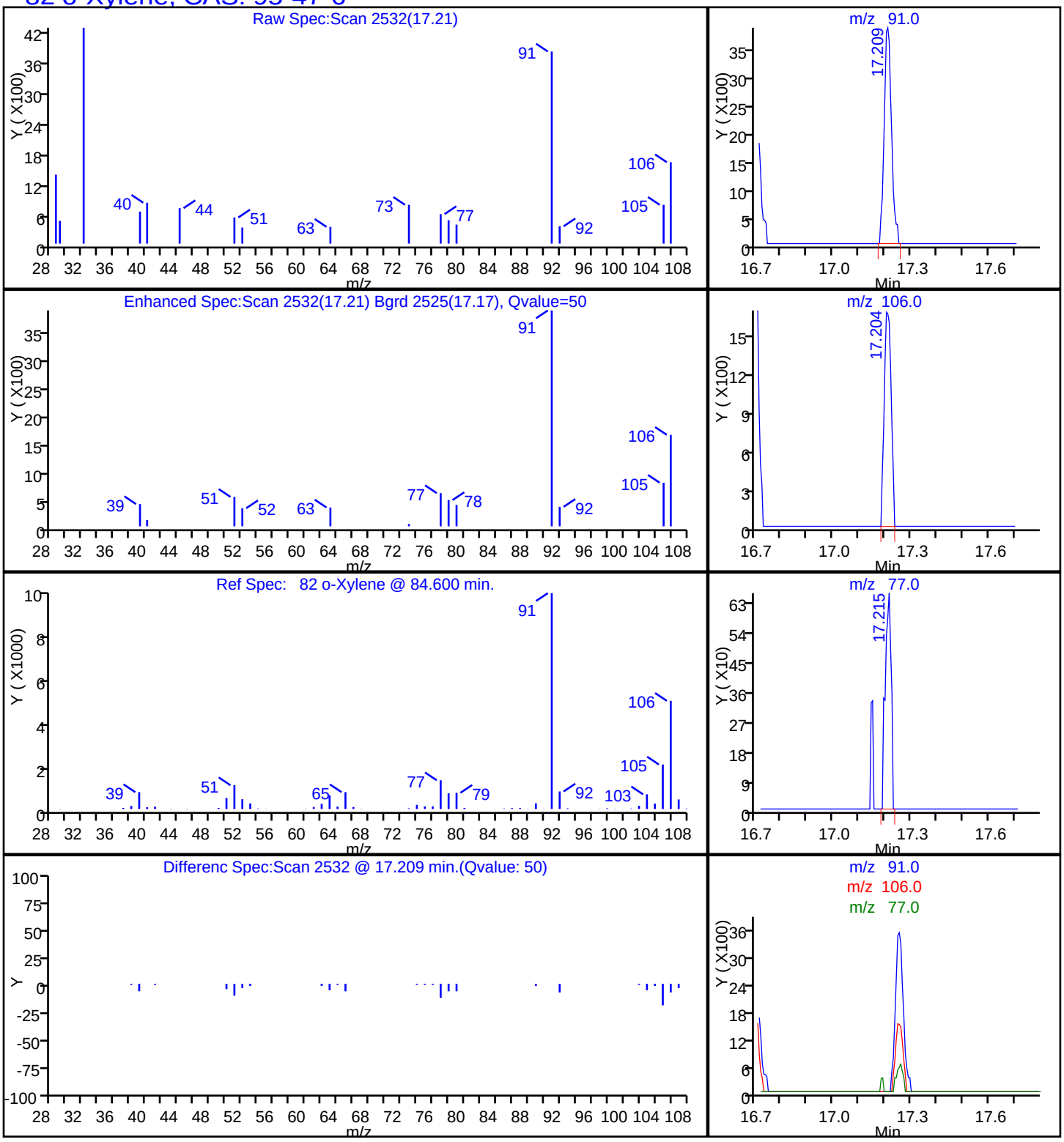
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



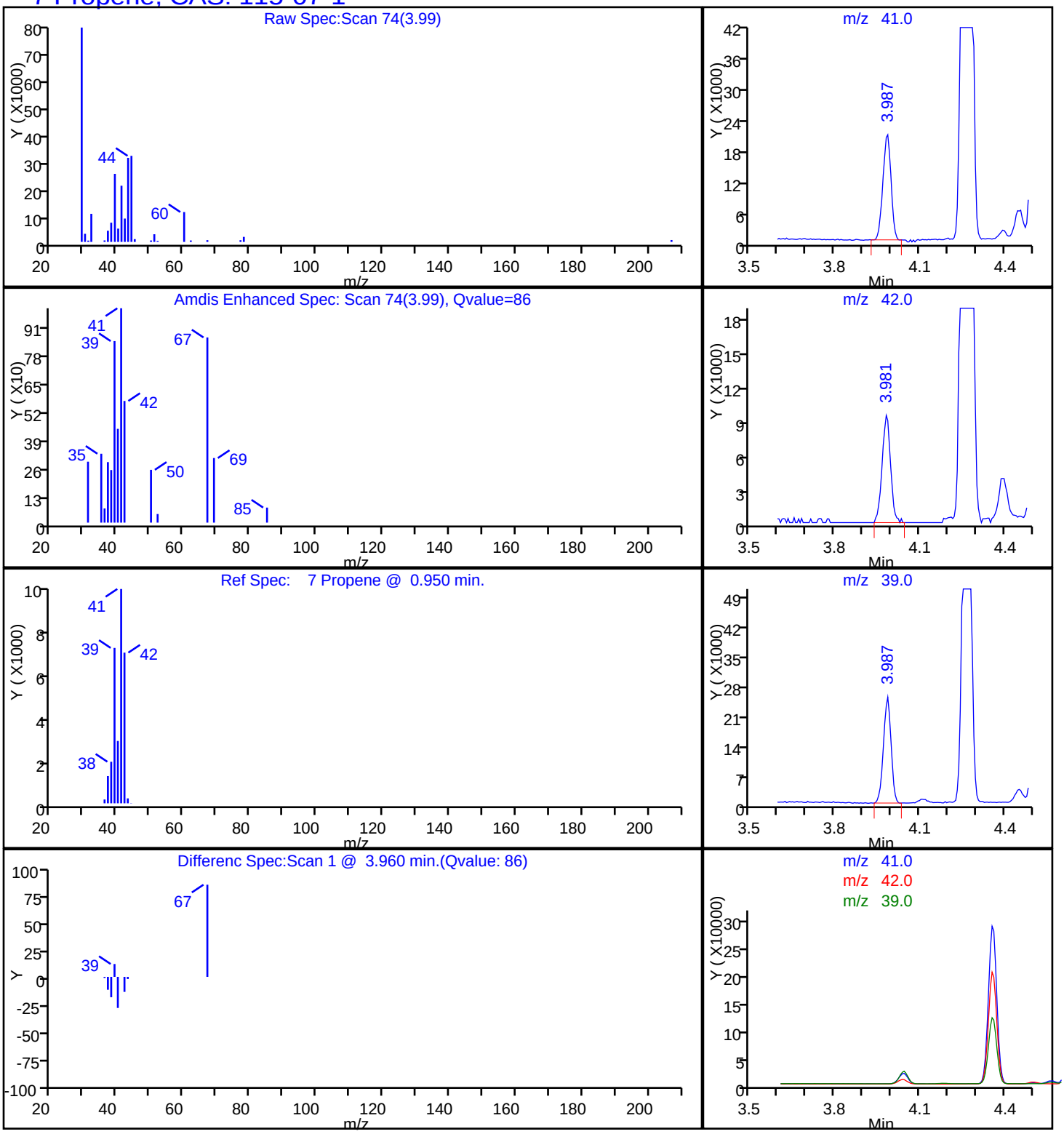
Report Date: 26-Mar-2014 13:30:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



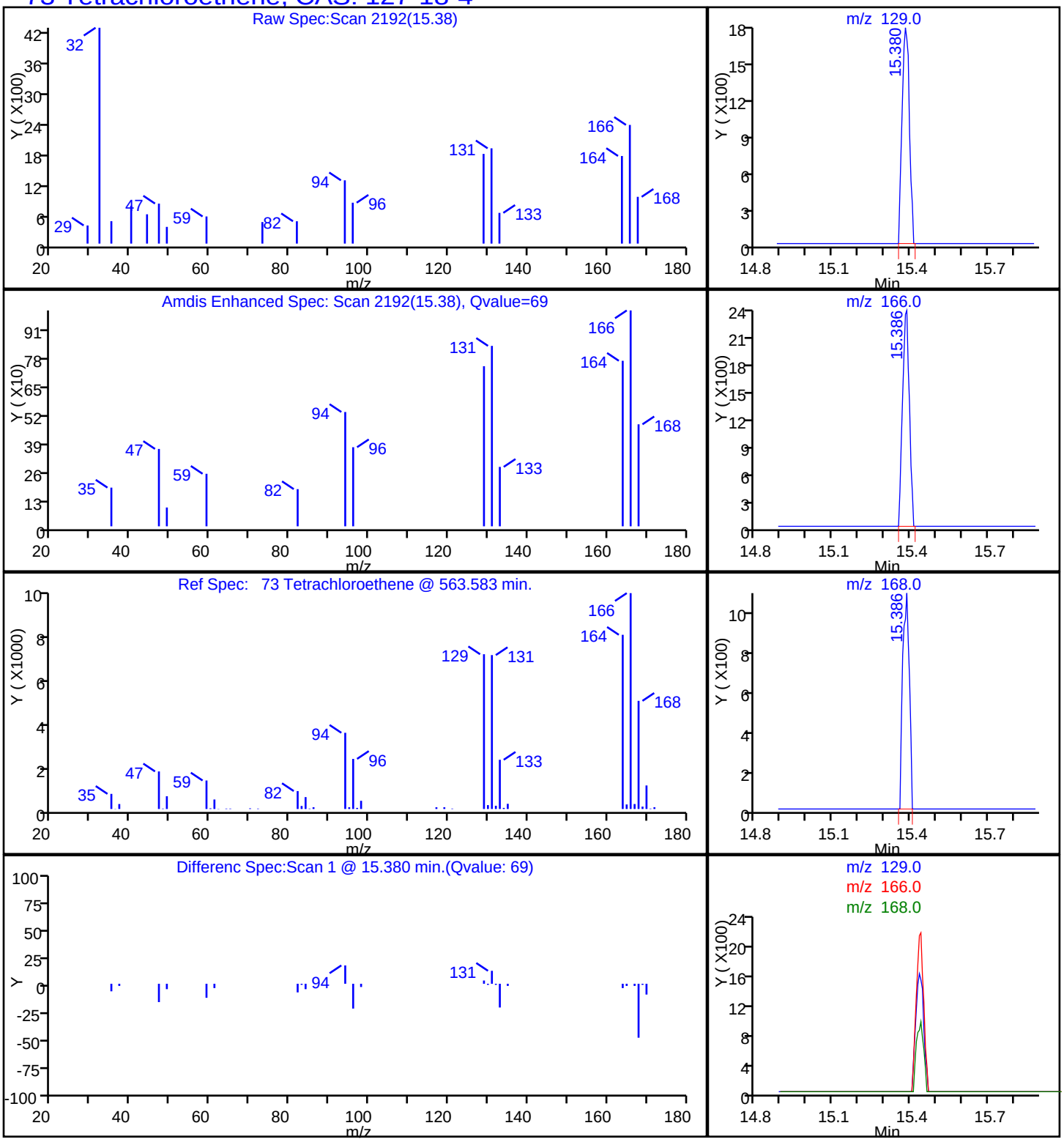
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22
Client ID:	IA2-E19		
Operator ID:	403648	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

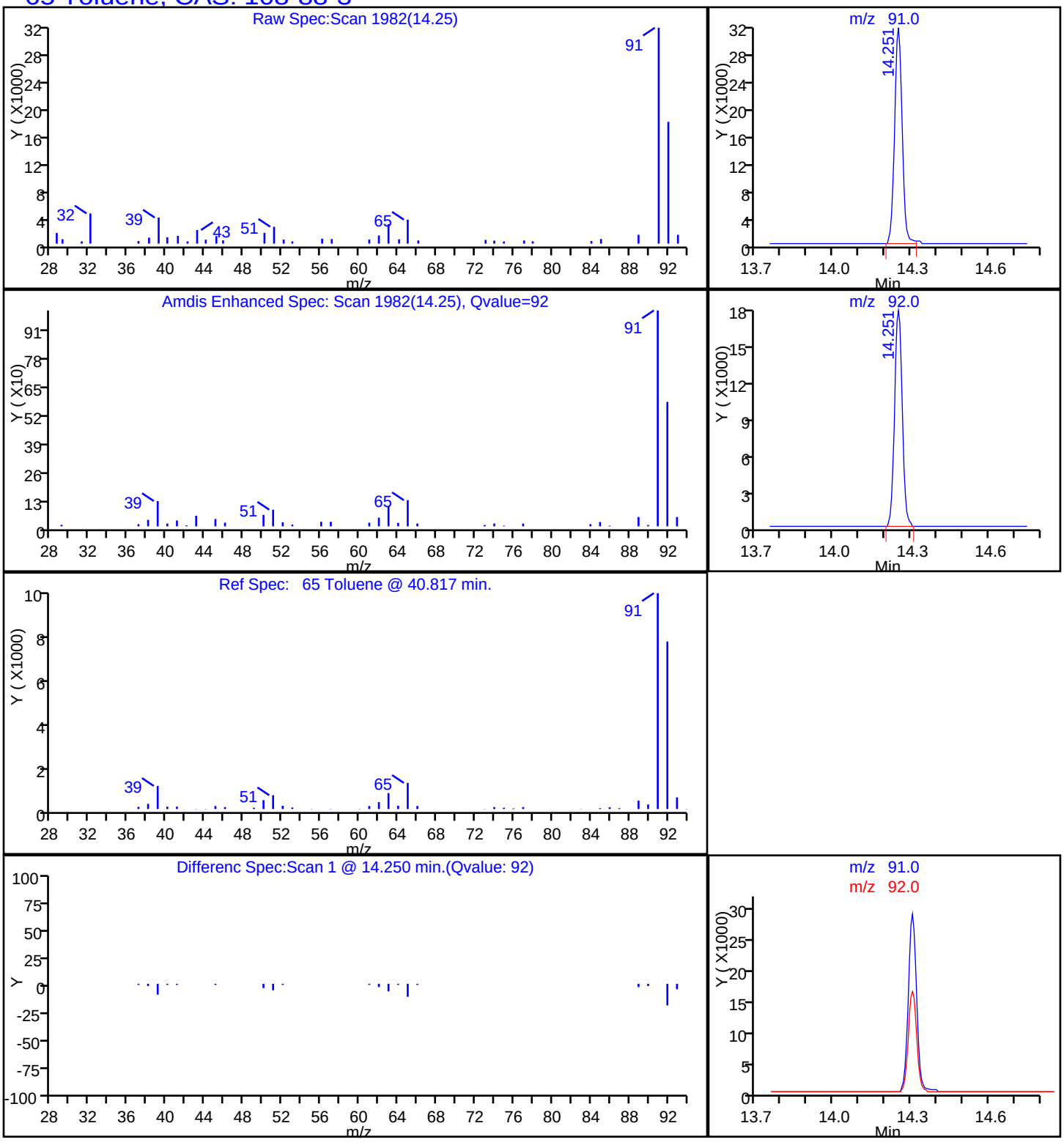


Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



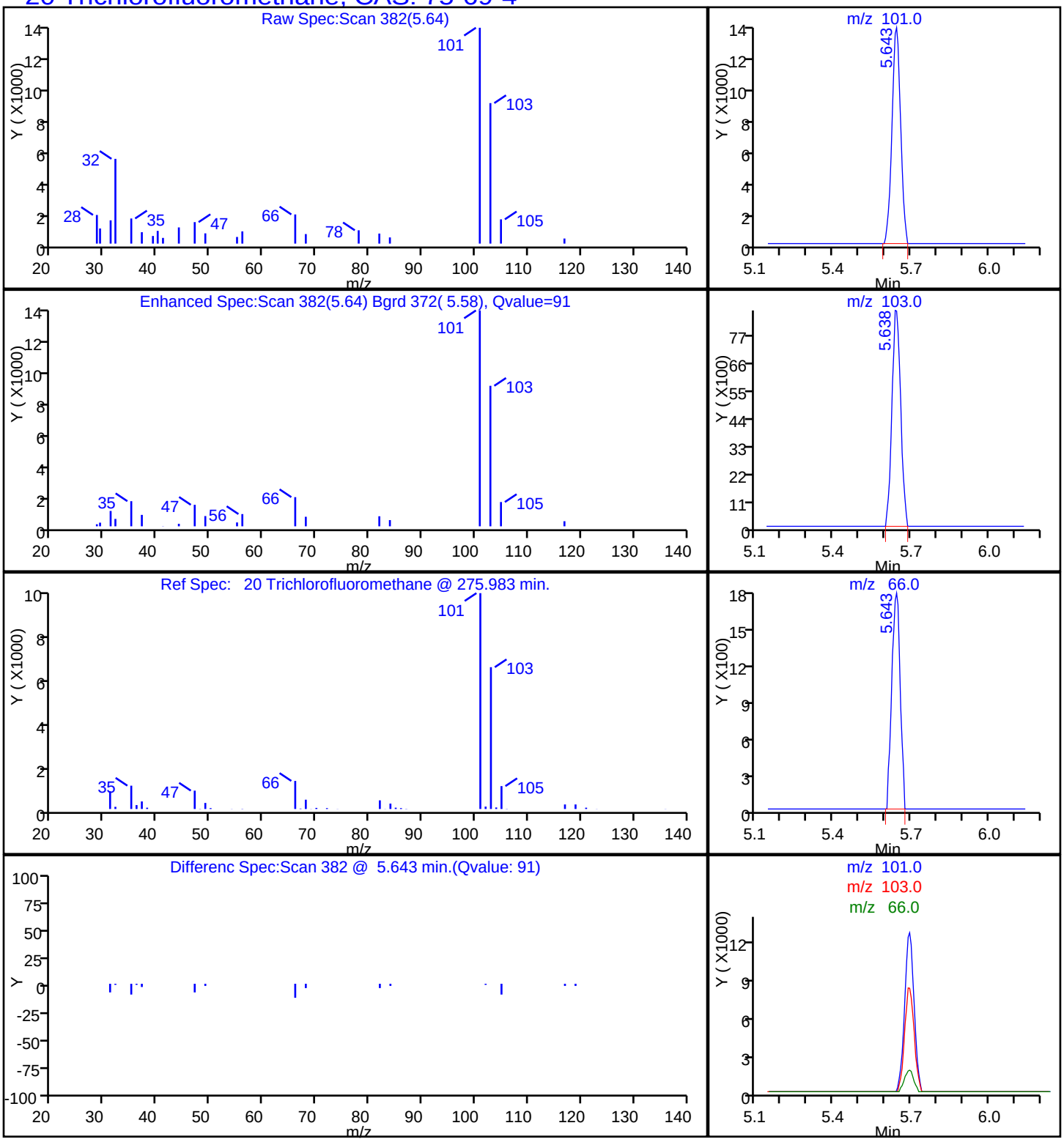
Report Date: 26-Mar-2014 13:30:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

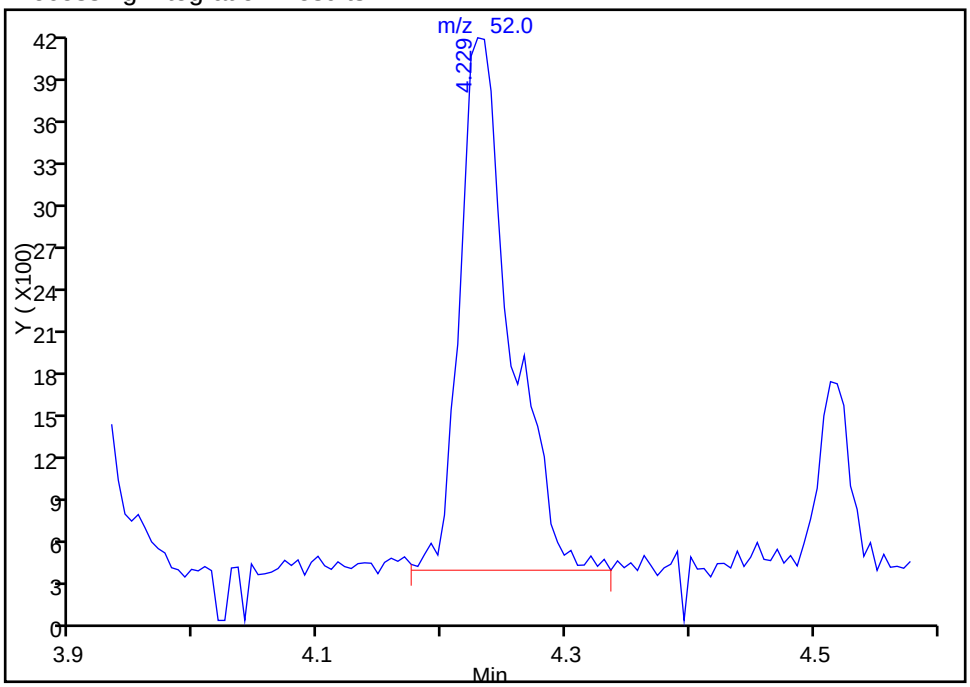
TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D				
Injection Date:	19-Mar-2014 22:12:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-22	Lab Sample ID:	140-1063-22		
Client ID:	IA2-E19				
Operator ID:	403648	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

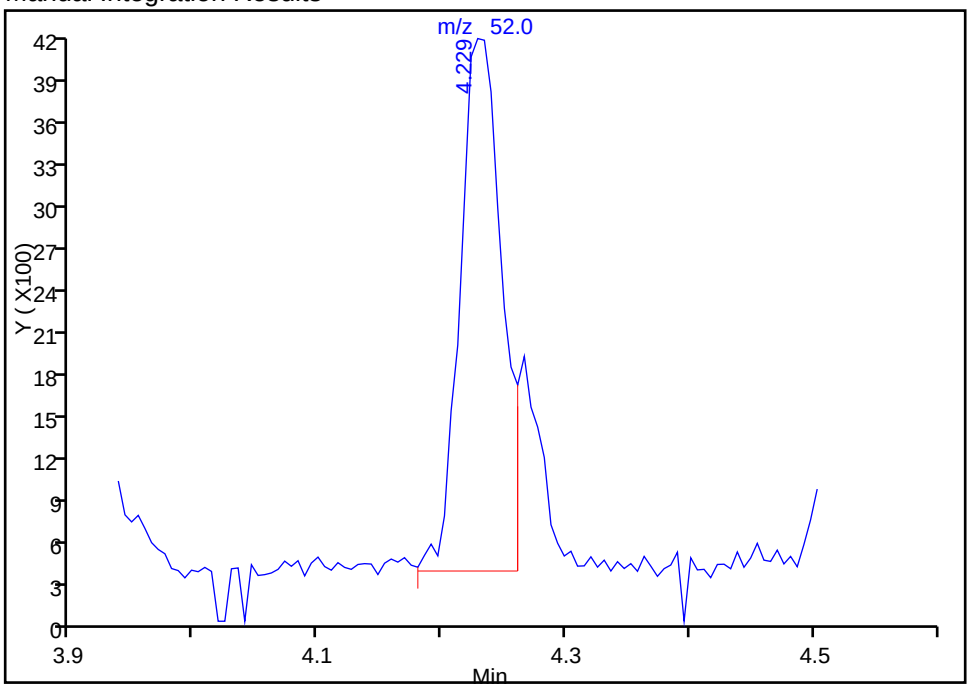
Processing Integration Results

RT: 4.23
Response: 10986
Amount: 0.268382



Manual Integration Results

RT: 4.23
Response: 9152
Amount: 0.223578



Reviewer: liul, 26-Mar-2014 13:30:57
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.14	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.36	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.64		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.97		0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.050	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	19		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.058	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.23	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.16	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.063	J	0.20	0.061
115-07-1	Propene	42.08	2.6	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.050	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.82		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.31	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.0		2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	35		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.41	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.81	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.70	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.28	J	0.87	0.26
115-07-1	Propene	42.08	4.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.34	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23

Matrix: Air Lab File ID: JC19P108.D

Analysis Method: TO-15 Date Collected: 03/13/2014 15:17

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D
Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23
Client ID: IA1-E17
Sample Type: Client
Inject. Date: 19-Mar-2014 23:06:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-23
Misc. Info.: J031914,TO15,,140-0000532-014
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:50:06 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:46:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	90	359685	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1752520	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1459544	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	974689	3.78	
7 Propene	41	3.981	3.973	0.008	58	113389	1.03	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	99	61146	0.1716	
9 Chloromethane	52	4.229	4.231	-0.002	94	9647	0.2384	
14 Butadiene	54	4.514	4.516	-0.002	26	5177	0.0559	
17 Ethanol	31	5.116	5.119	-0.003	95	215396	7.46	
19 2-Methylbutane	43	5.407	5.409	-0.002	92	39132	0.2562	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	87	25622	0.0819	
23 Acetone	58	5.767	5.770	-0.003	99	47375	0.9266	
24 Isopropyl alcohol	45	5.842	5.850	-0.008	97	318019	2.36	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.579	6.582	-0.003	68	6136	0.0283	
31 Methylene Chloride	84	6.752	6.754	-0.002	82	9003	0.0936	
39 2-Butanone (MEK)	72	8.591	8.589	0.002	93	4908	0.1442	
40 Hexane	56	8.629	8.637	-0.008	66	4496	0.0465	
43 Chloroform	83	9.393	9.396	-0.003	4	4216	0.0201	
48 Benzene	78	11.017	11.026	-0.009	89	28597	0.0951	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	77	6674	0.0269	
54 n-Heptane	71	12.115	12.123	-0.008	78	2448	0.0230	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.371	0.003	96	71044	0.3867	
65 Toluene	91	14.251	14.253	-0.002	92	89141	0.3292	
73 Tetrachloroethene	129	15.380	15.383	-0.003	61	2505	0.0199	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	15536	0.0644	
82 o-Xylene	91	17.204	17.212	-0.008	28	6200	0.0253	

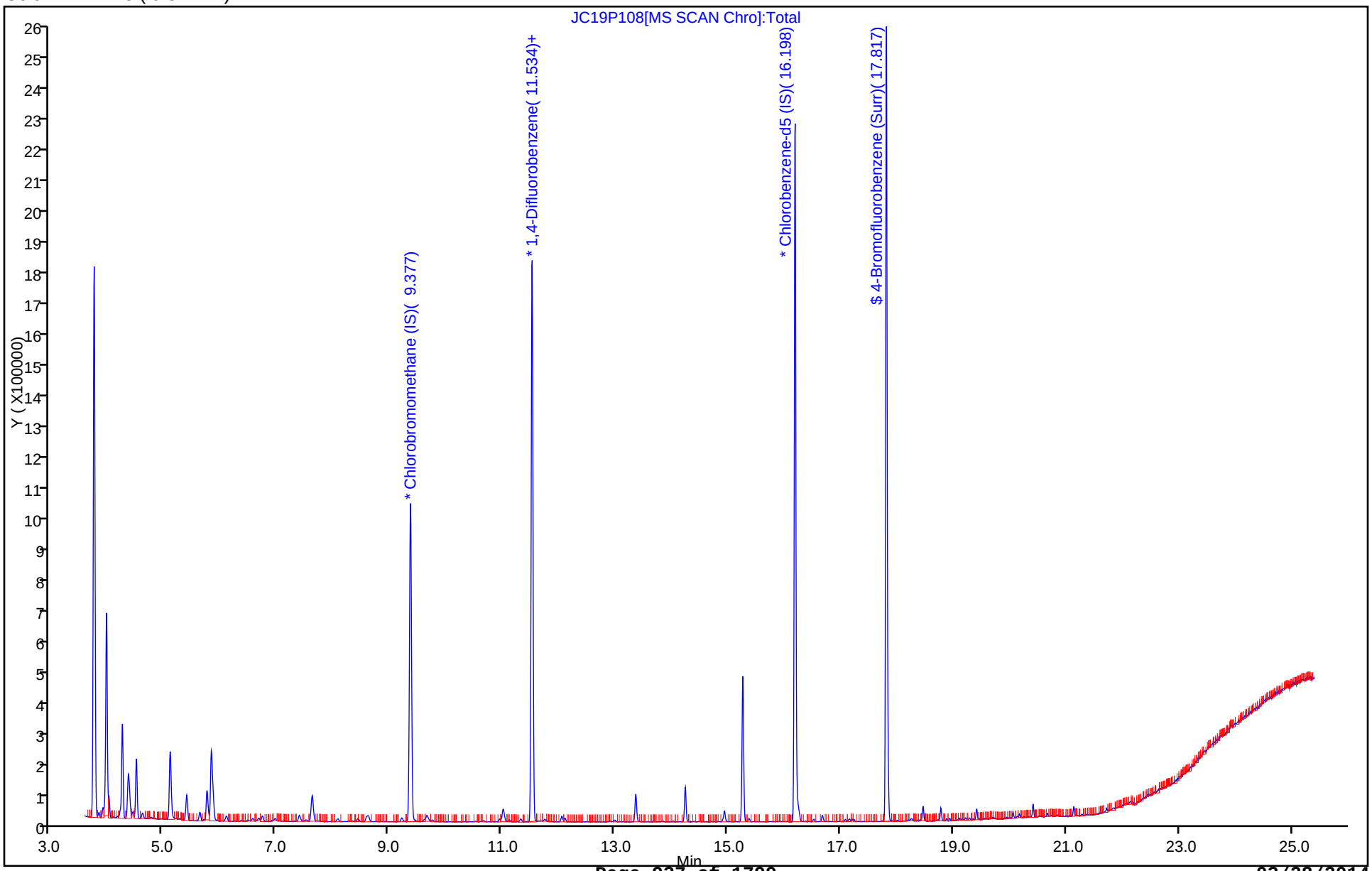
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23	Worklist Smp#:	14
Client ID:	IA1-E17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



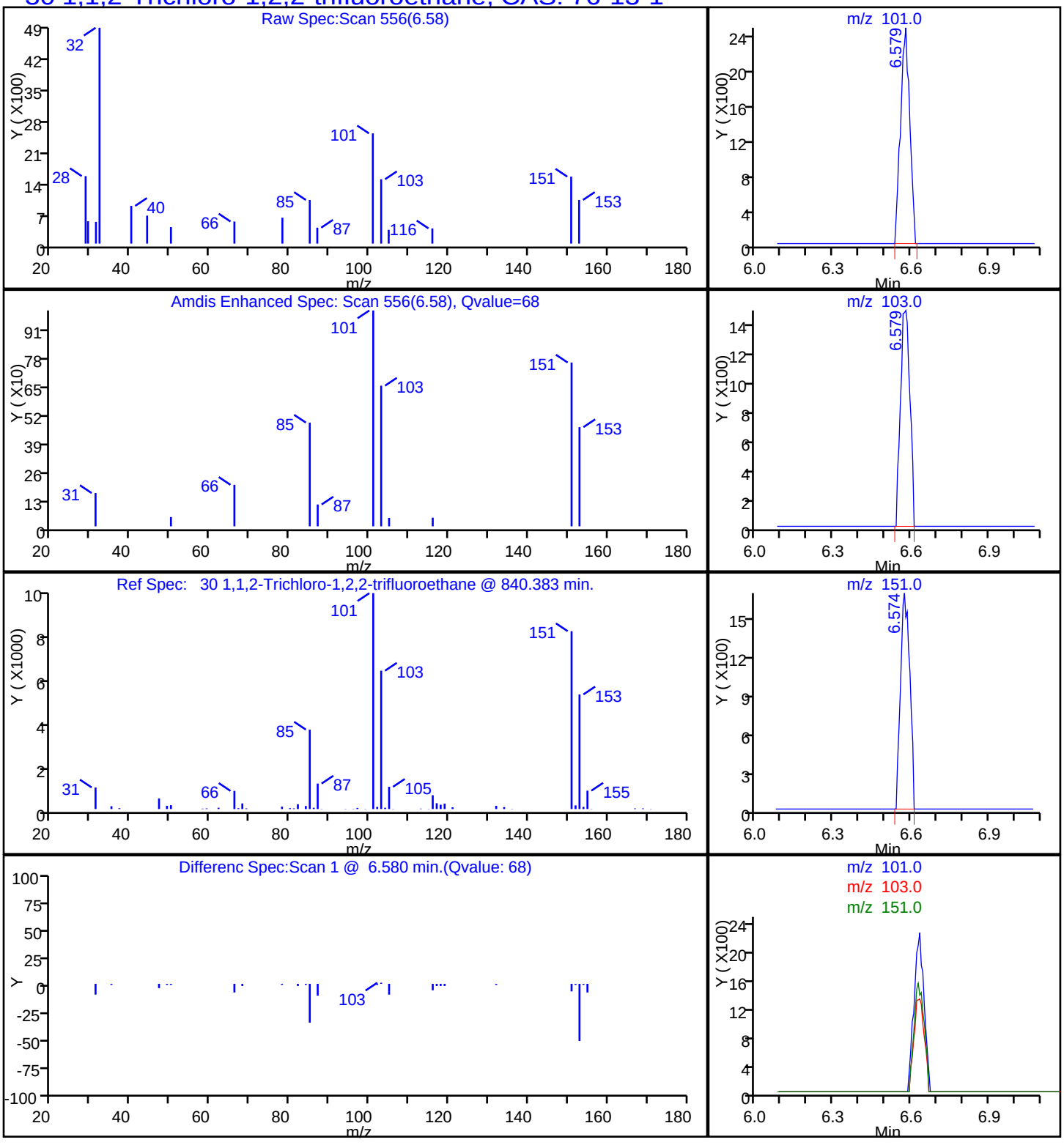
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



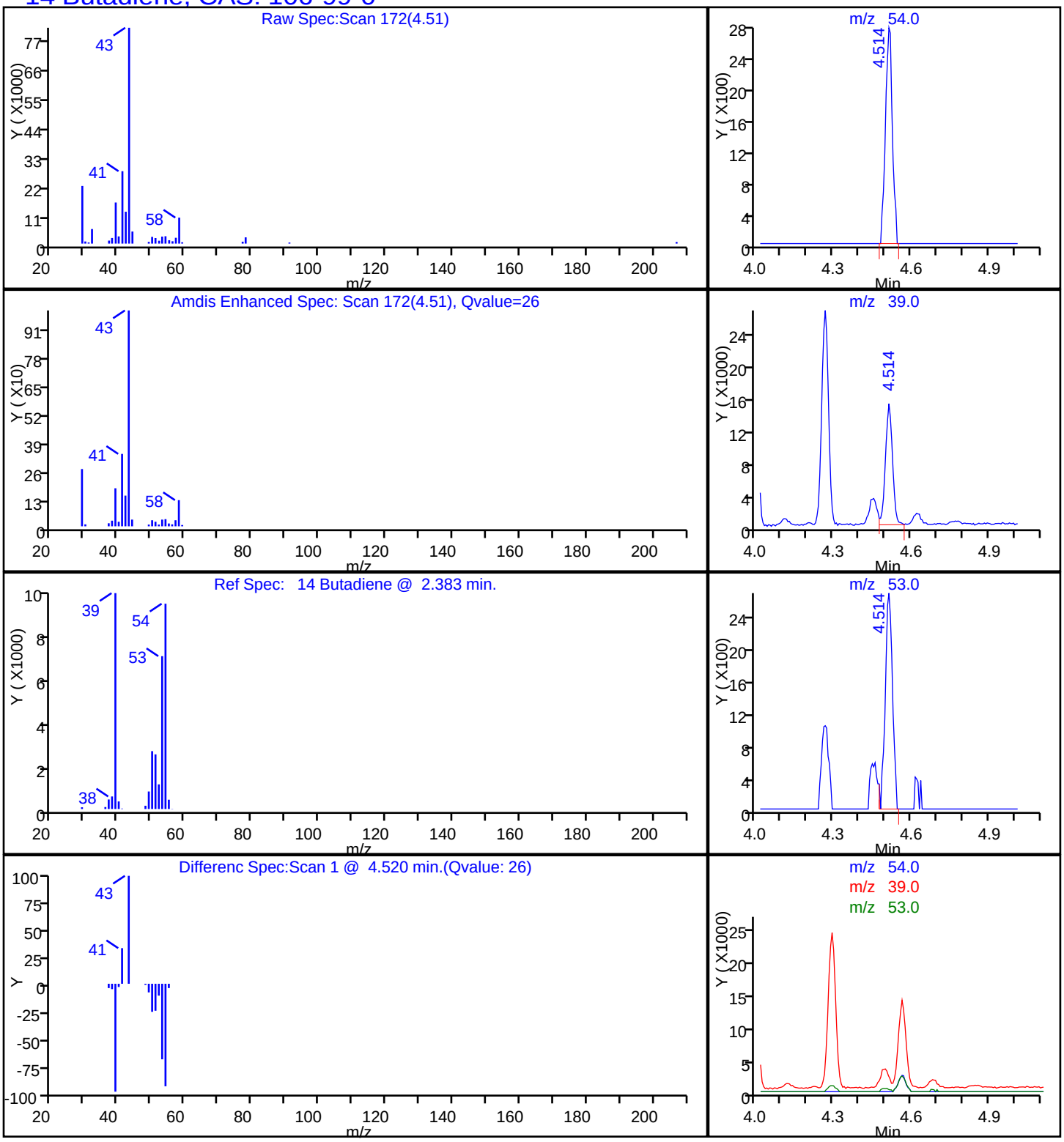
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butadiene, CAS: 106-99-0



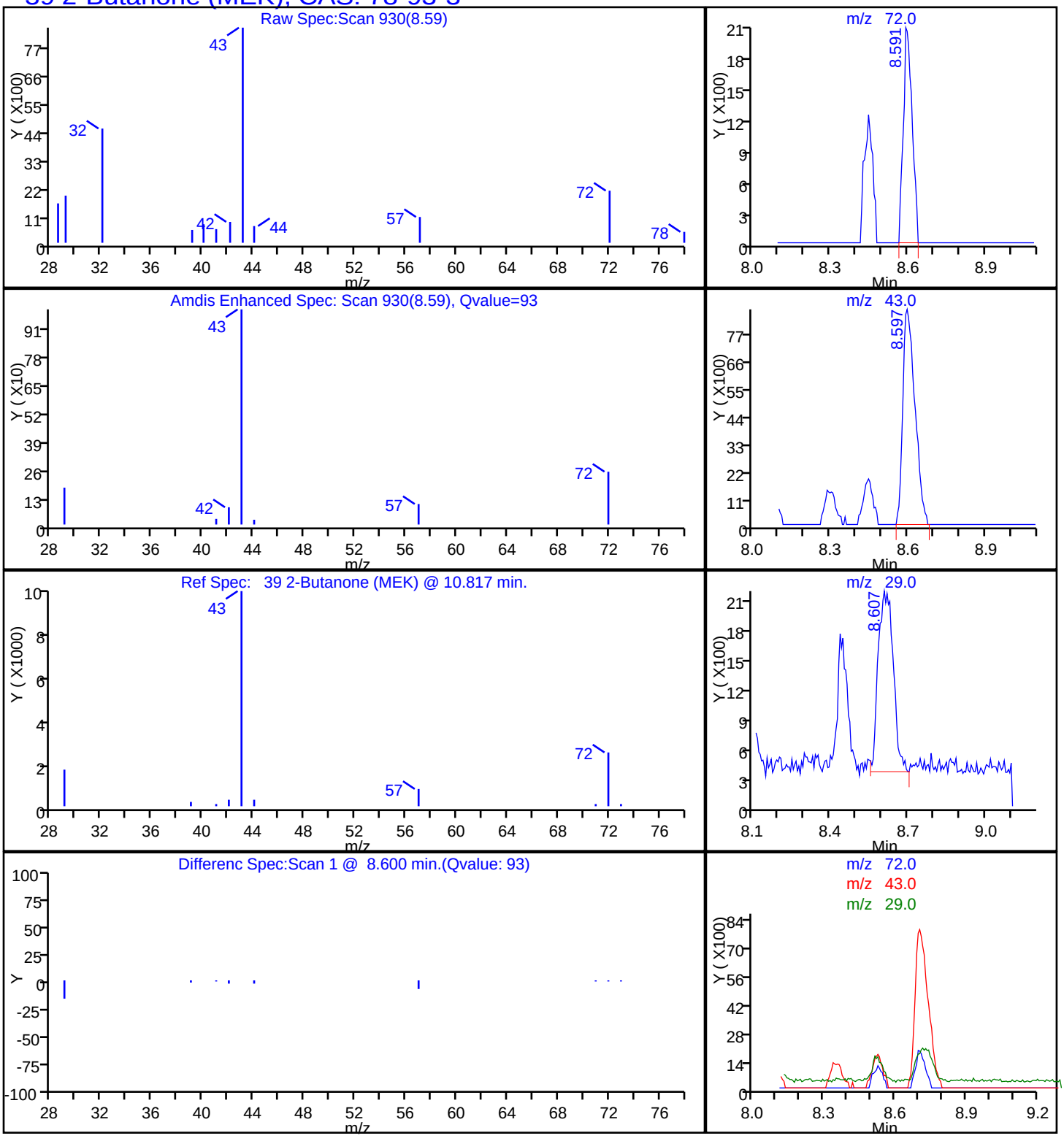
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30 Instrument ID: MJ

Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23

Client ID: IA1-E17

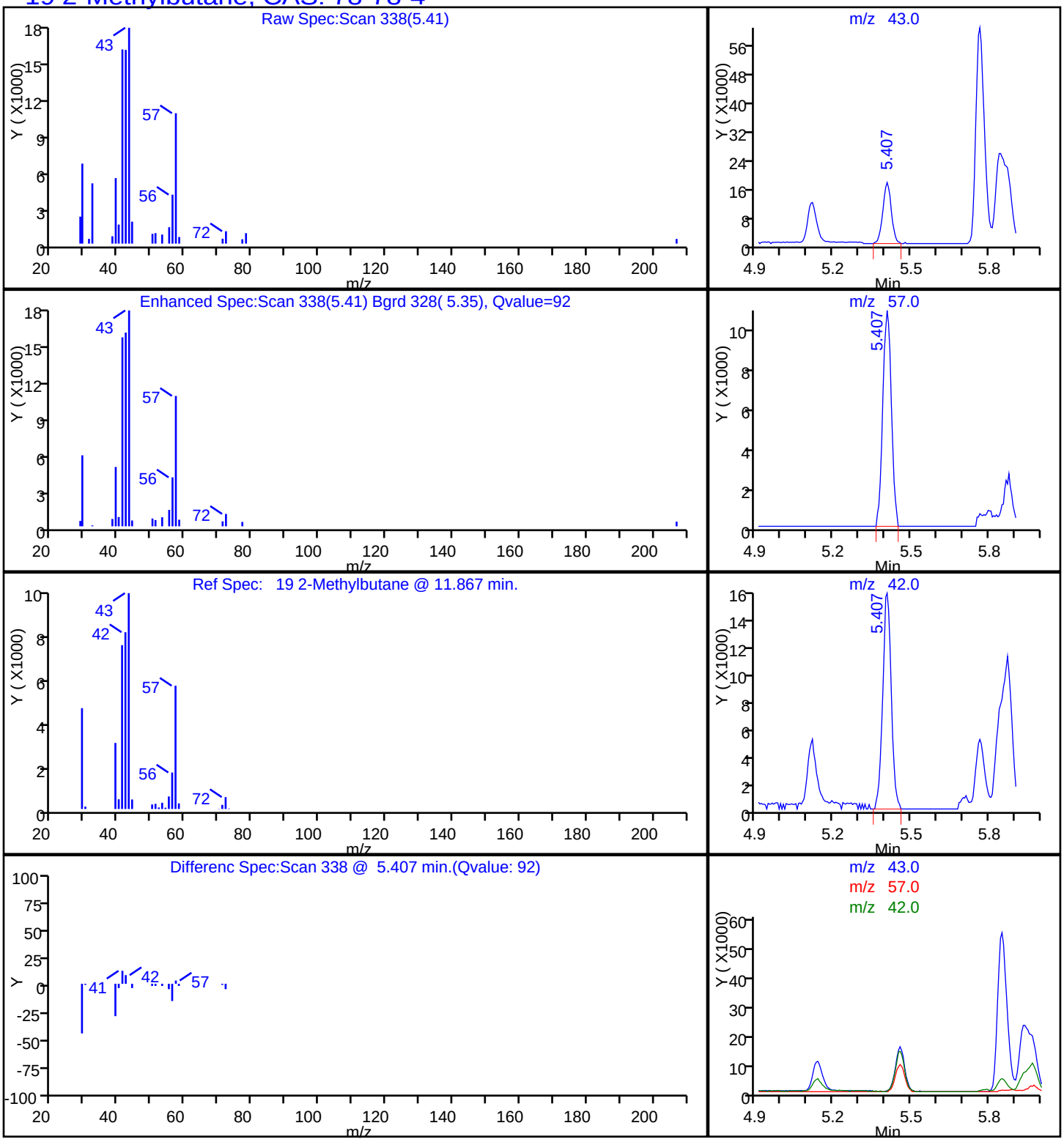
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



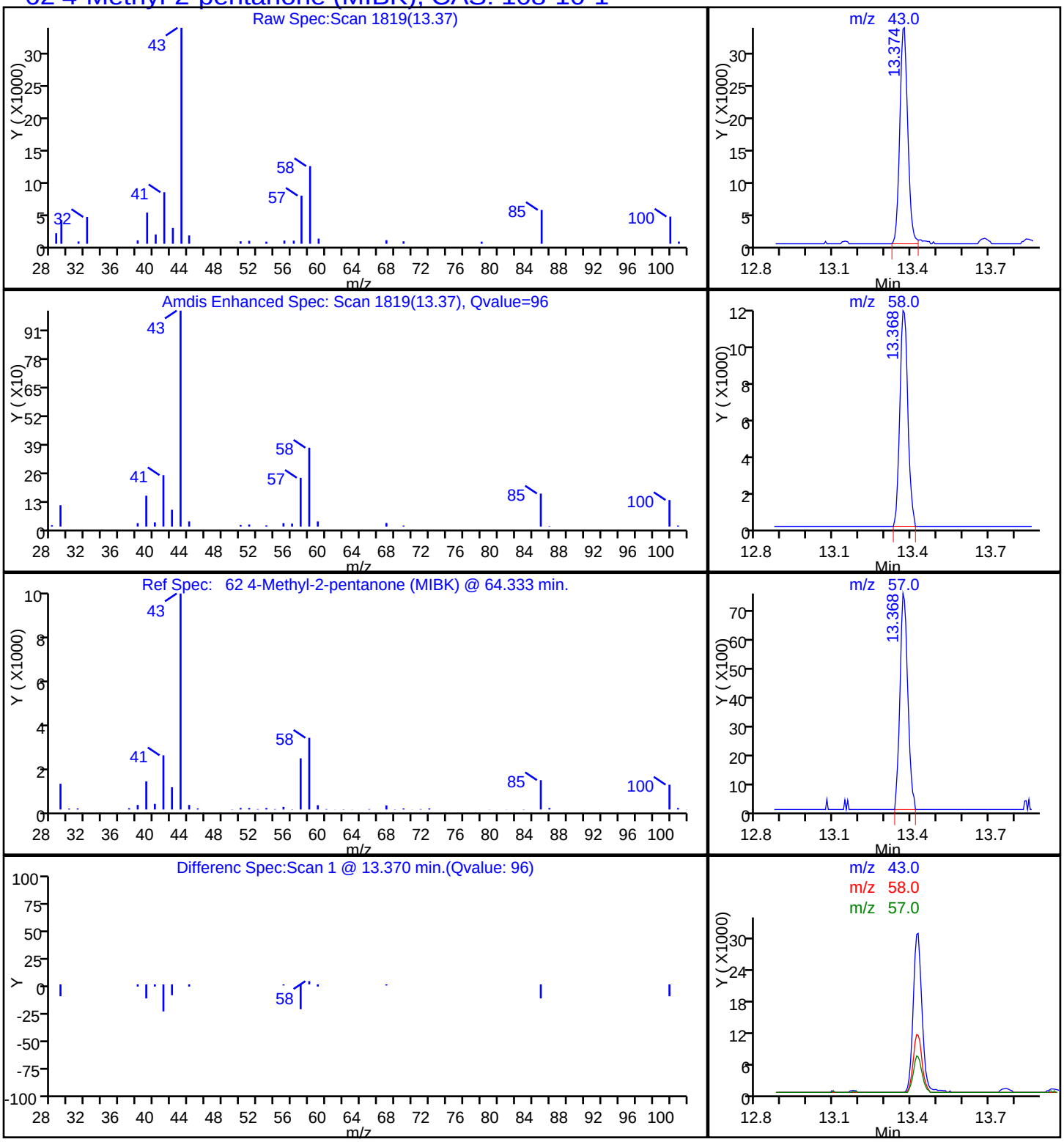
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23
Client ID:	IA1-E17		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



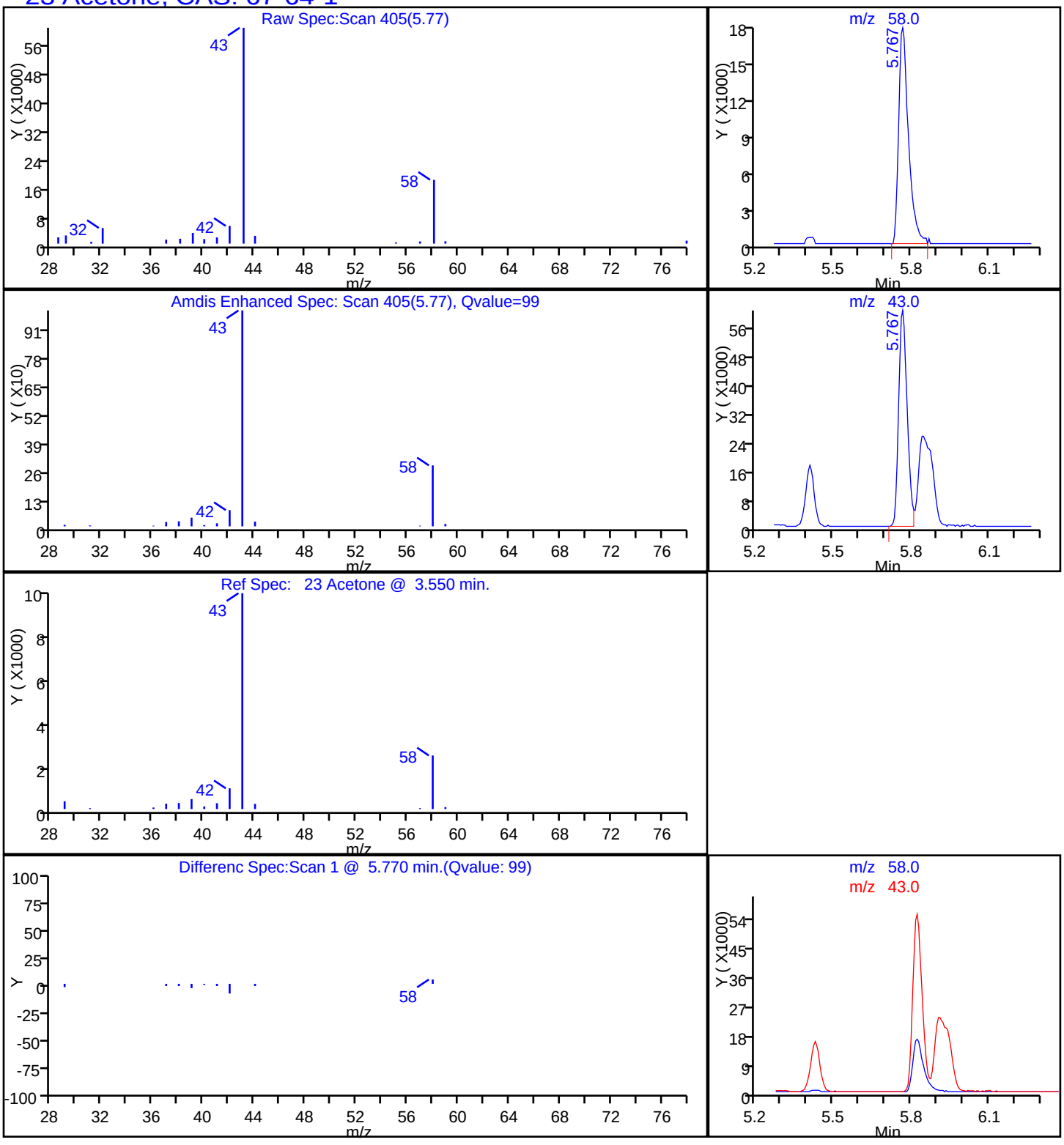
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

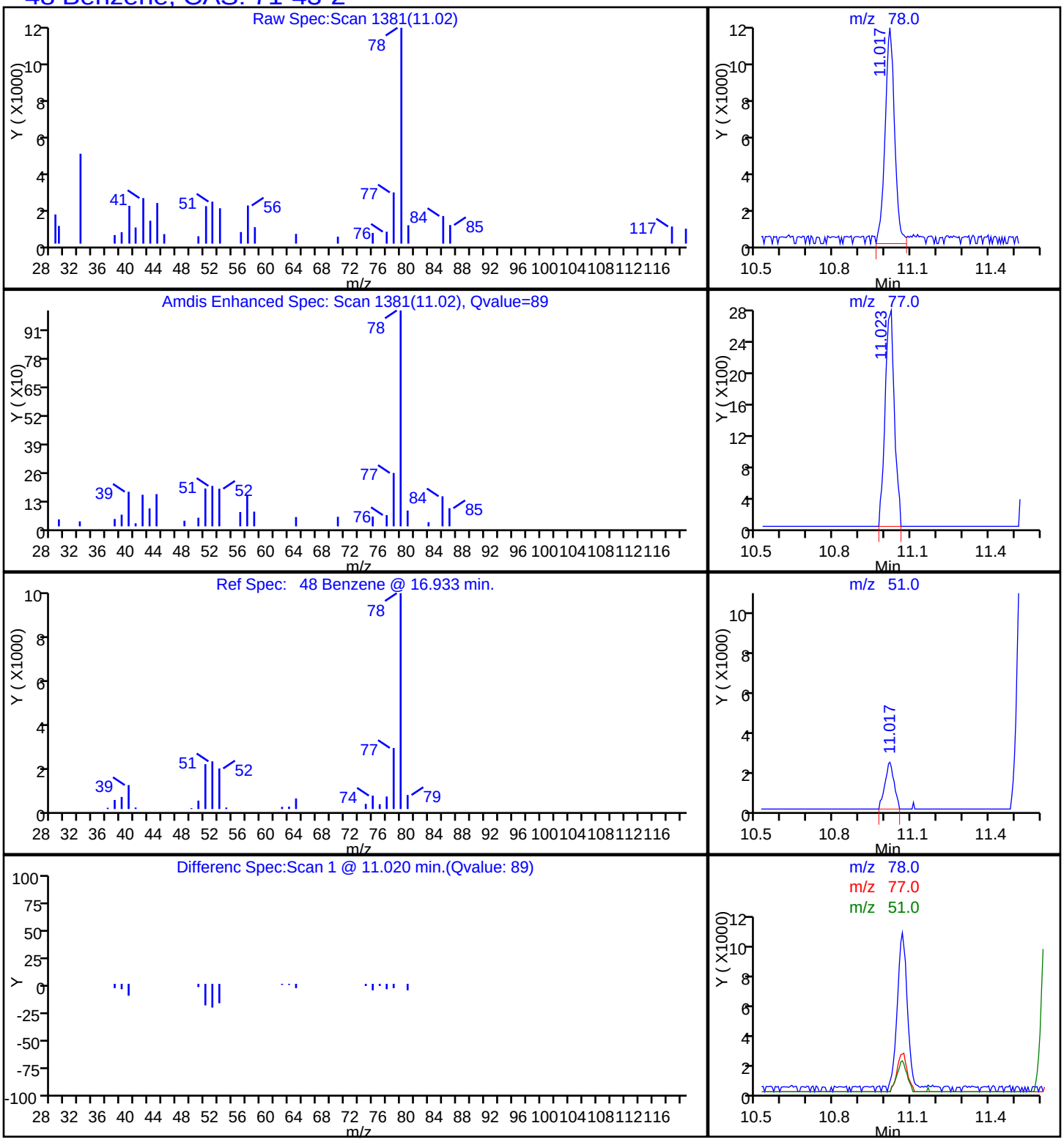


Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D		
Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23
Client ID:	IA1-E17		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



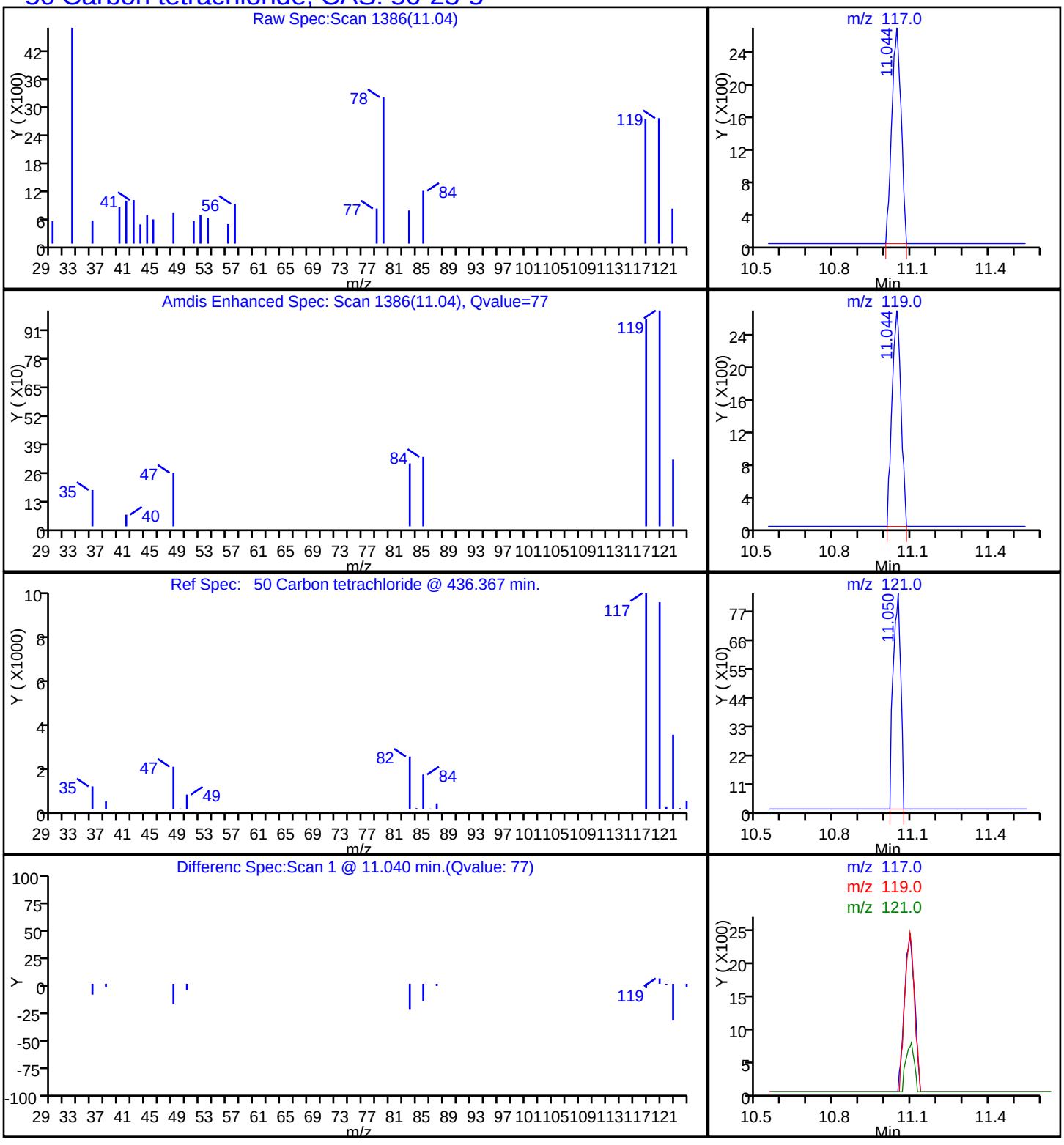
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30 Instrument ID: MJ

Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23

Client ID: IA1-E17

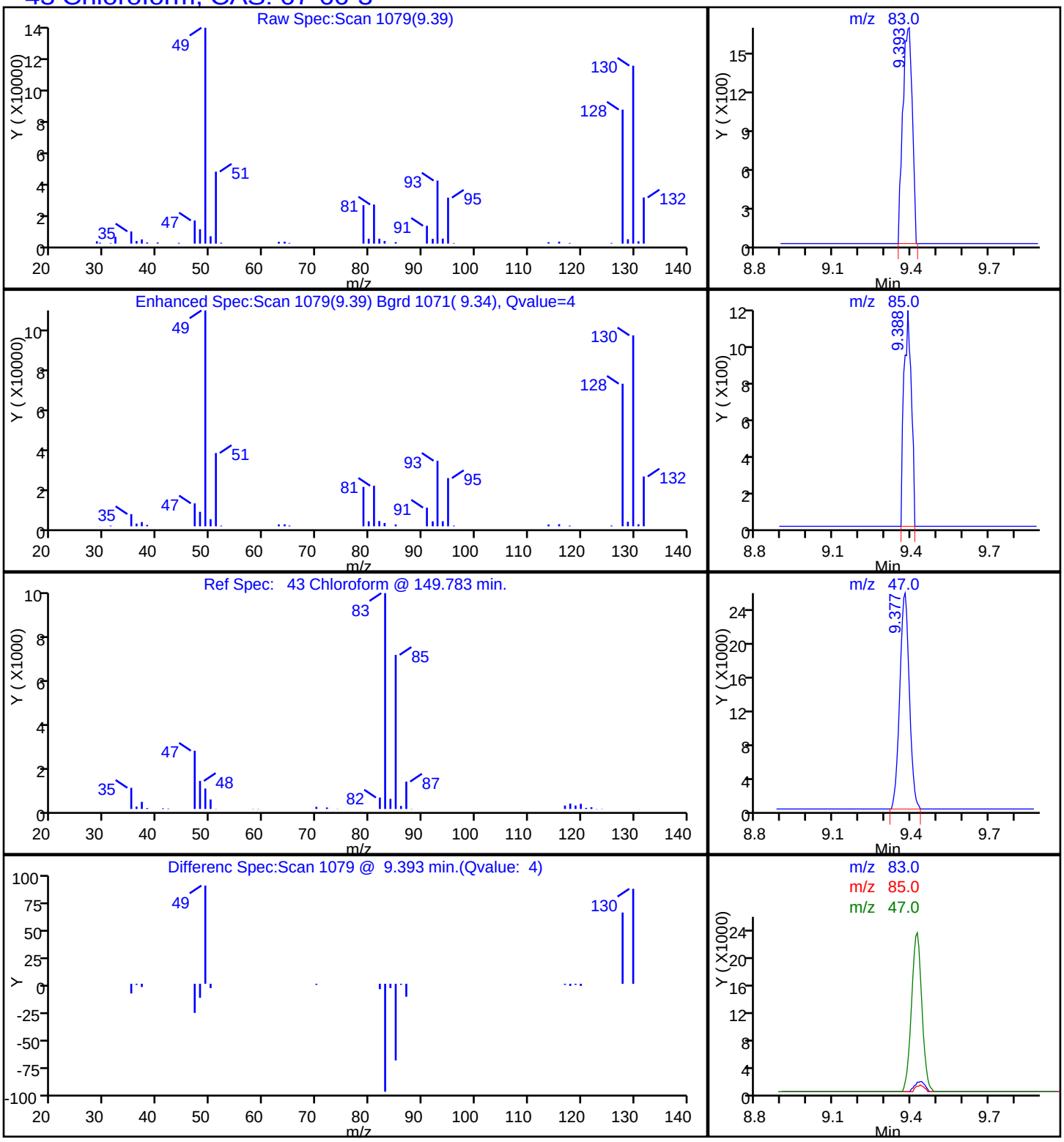
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



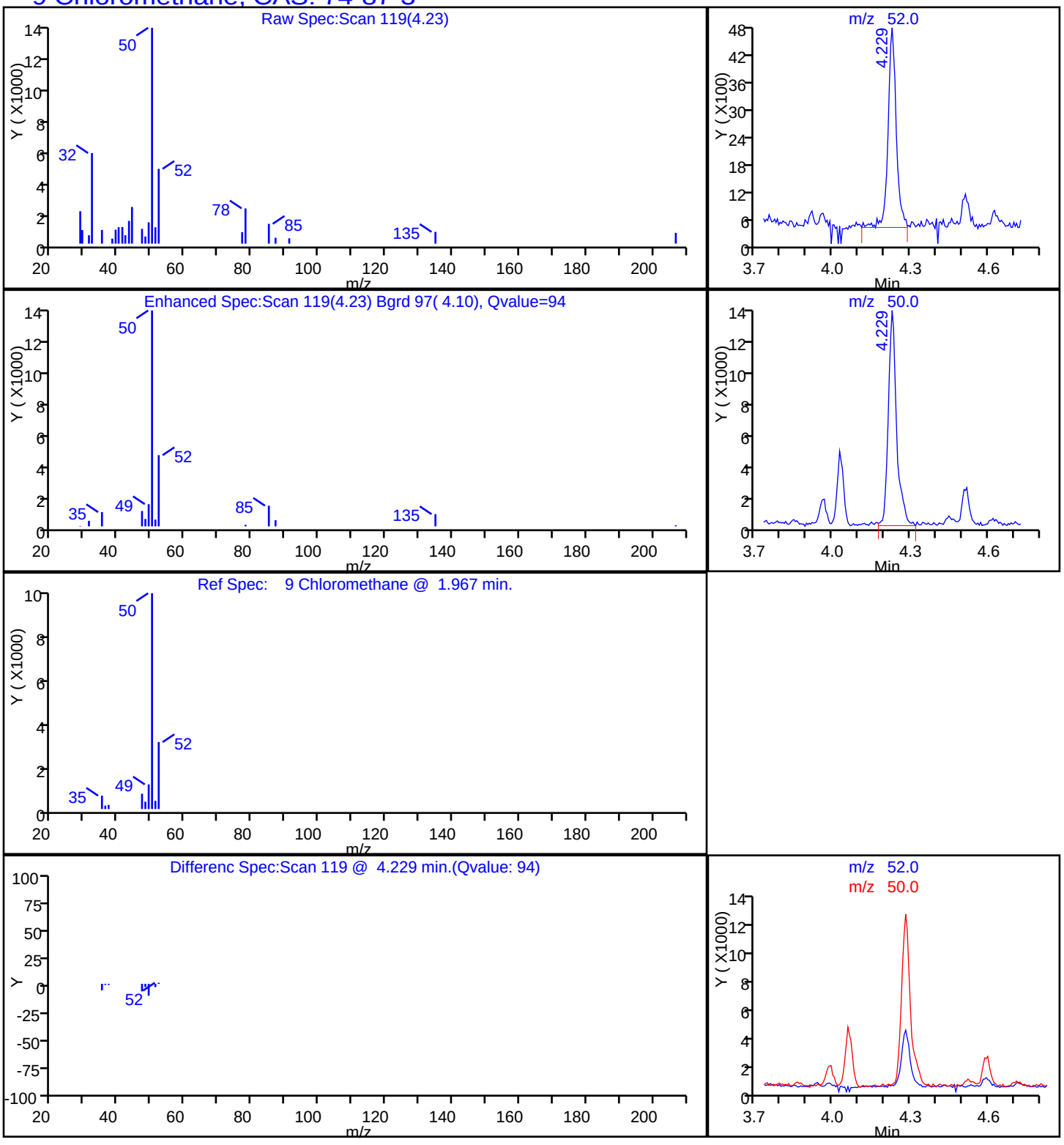
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



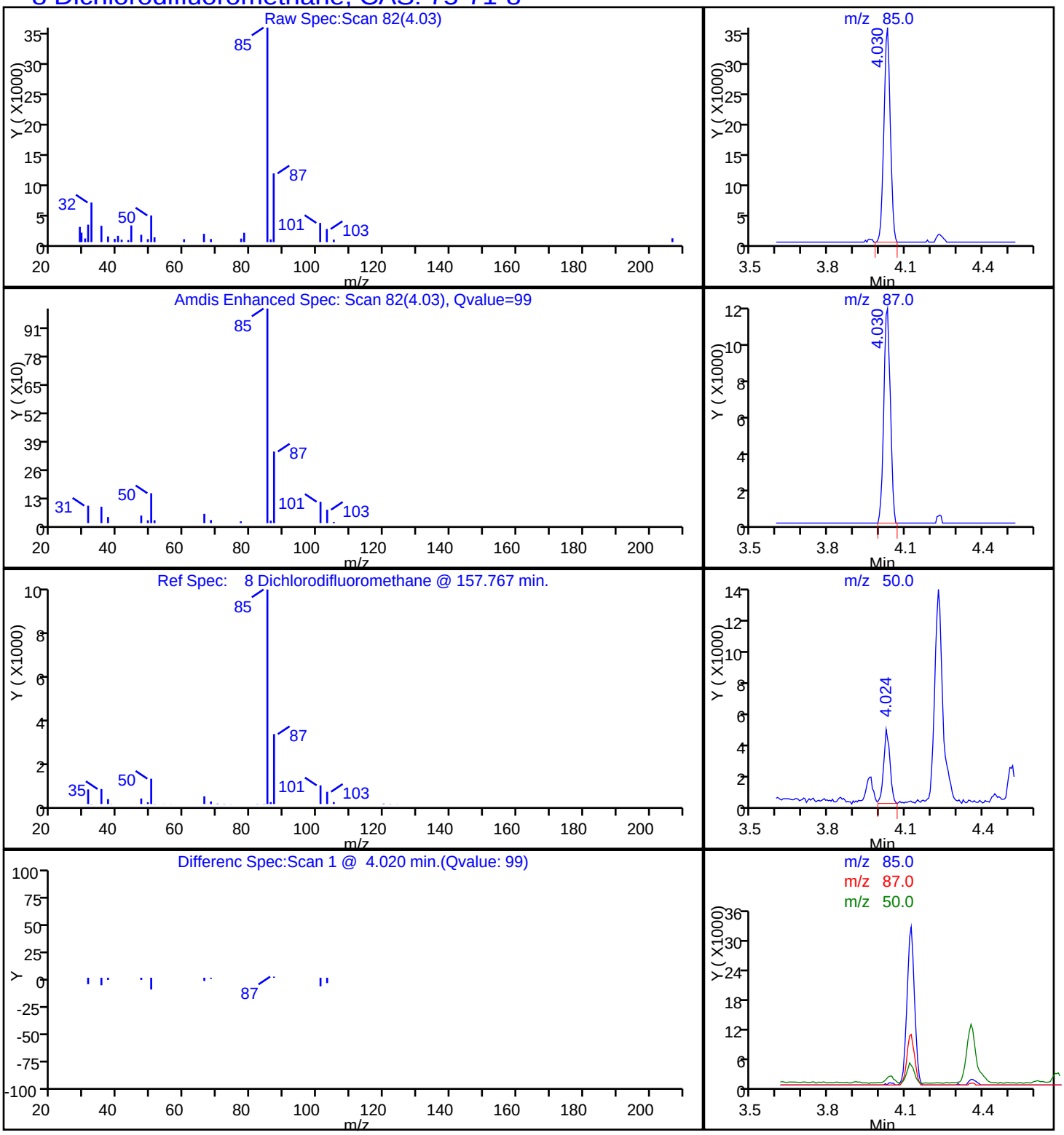
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



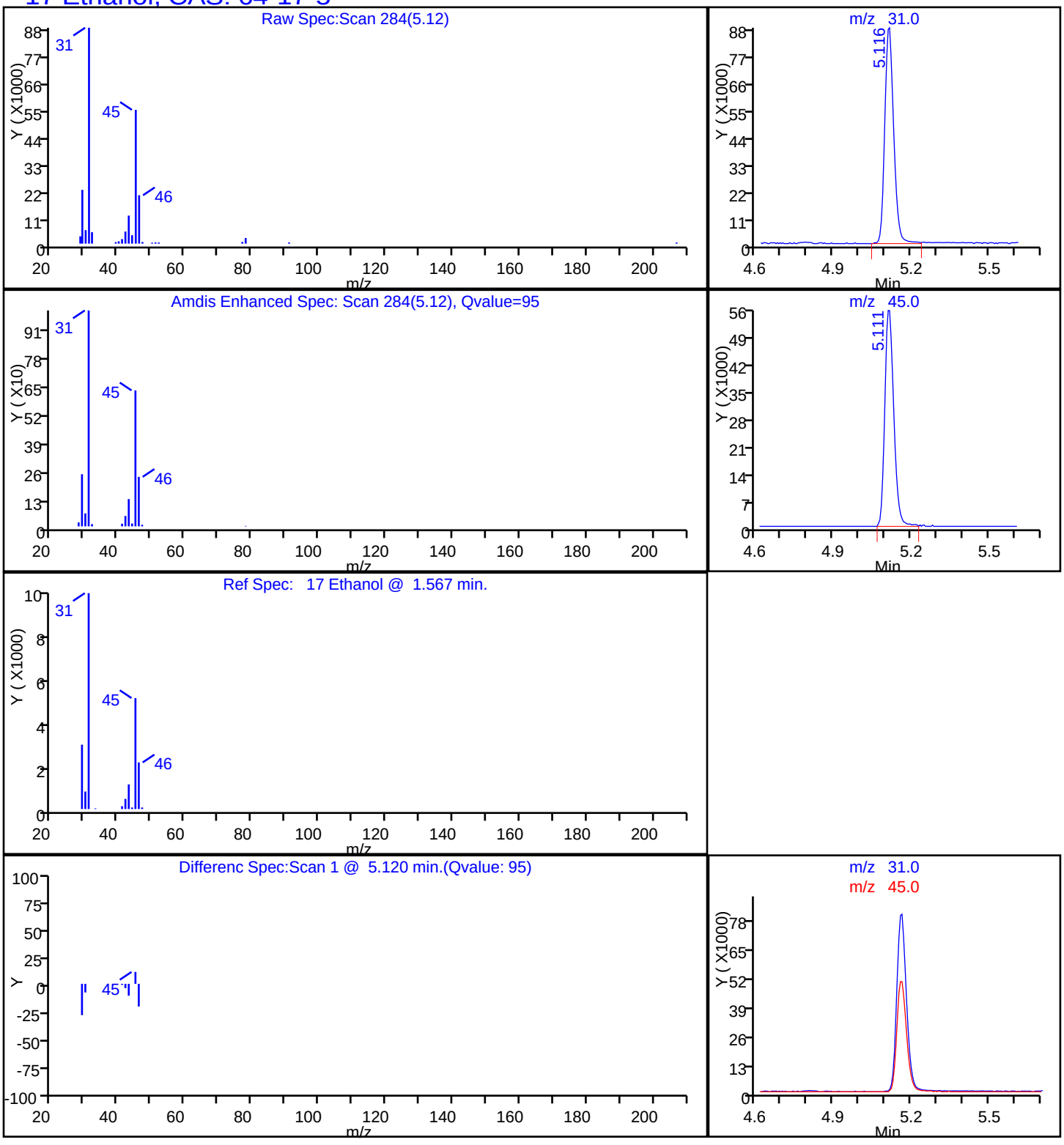
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23
Client ID:	IA1-E17		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5

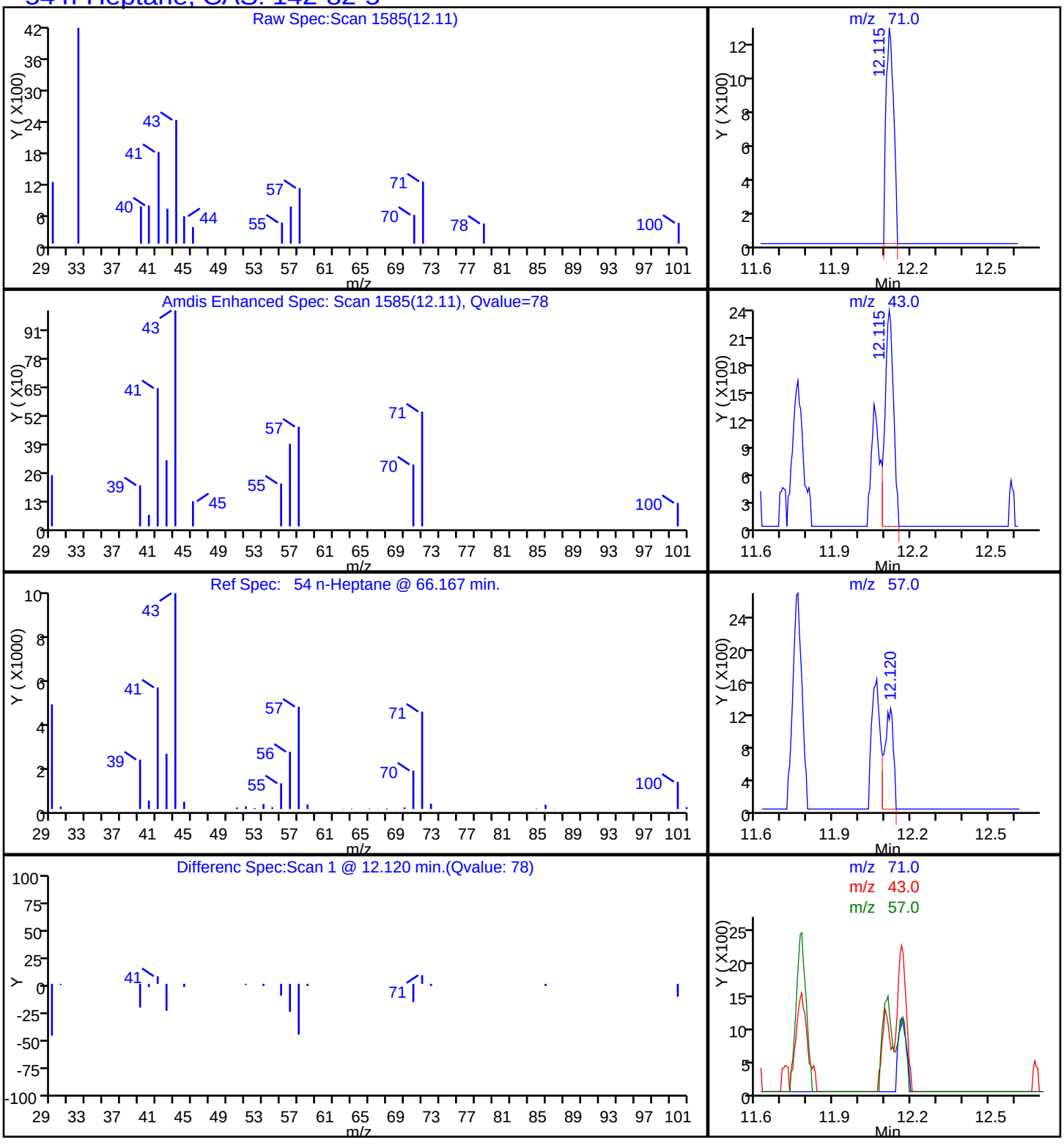


Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D				
Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

54 n-Heptane, CAS: 142-82-5



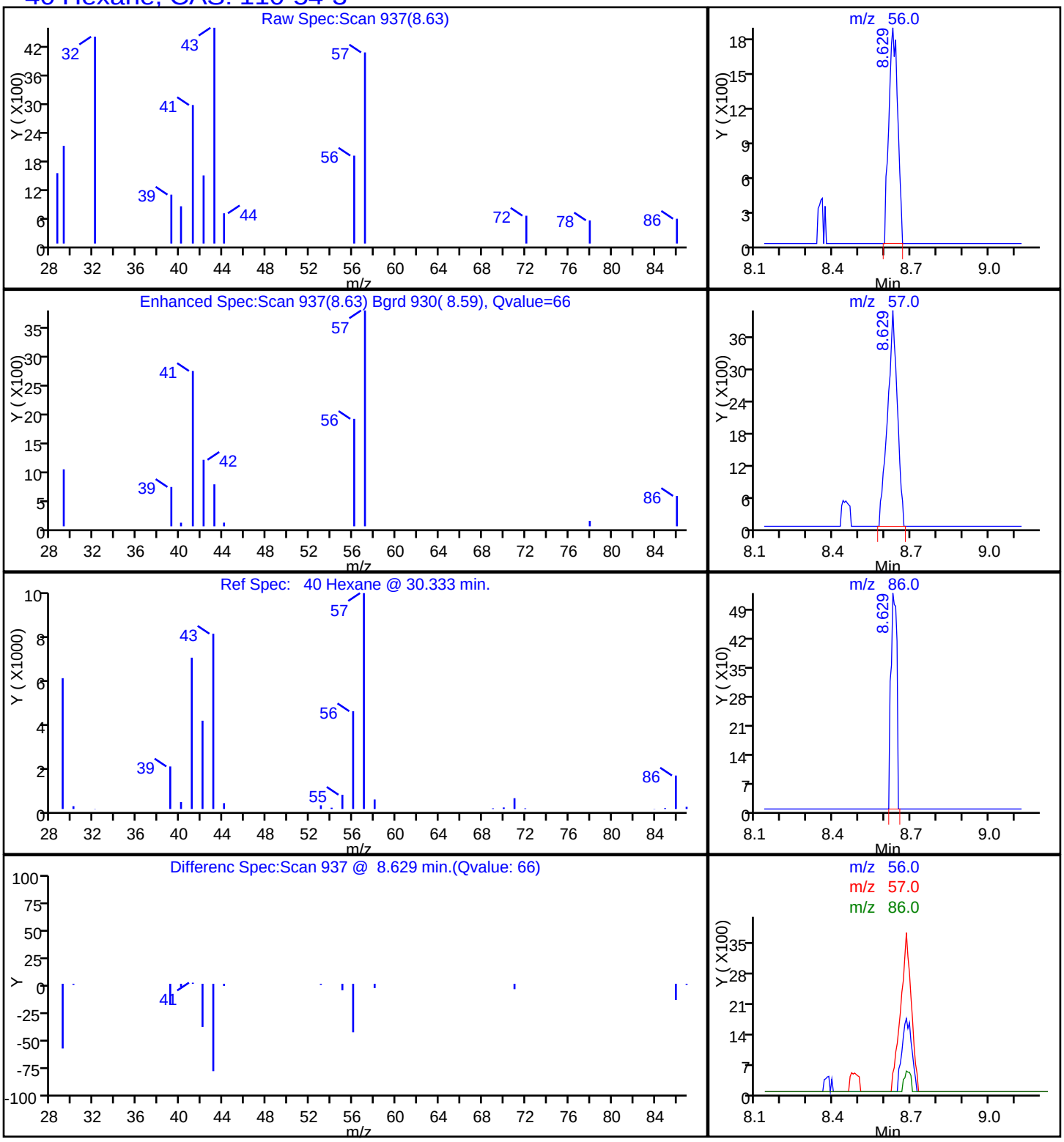
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30 Instrument ID: MJ

Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23

Client ID: IA1-E17

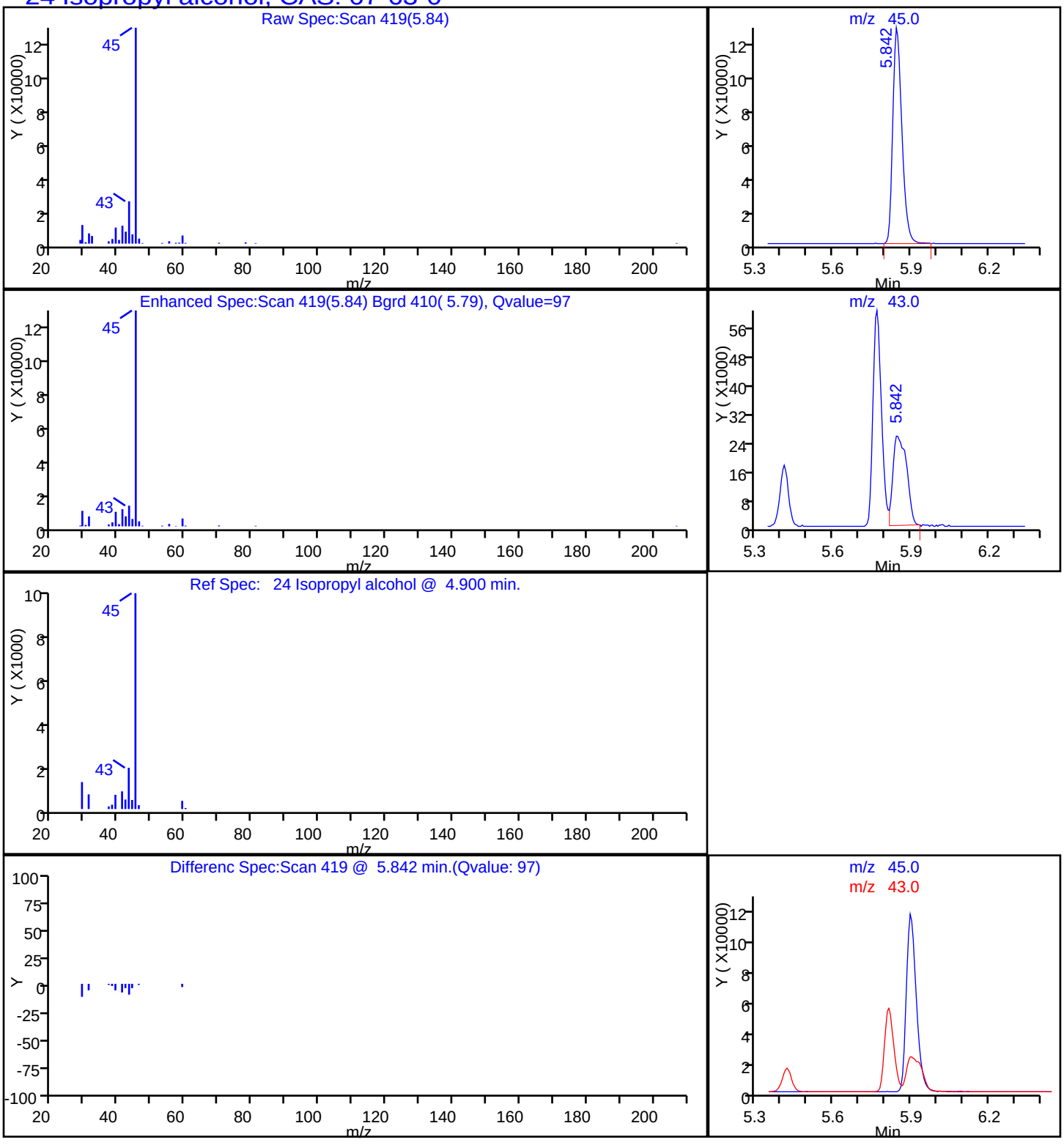
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



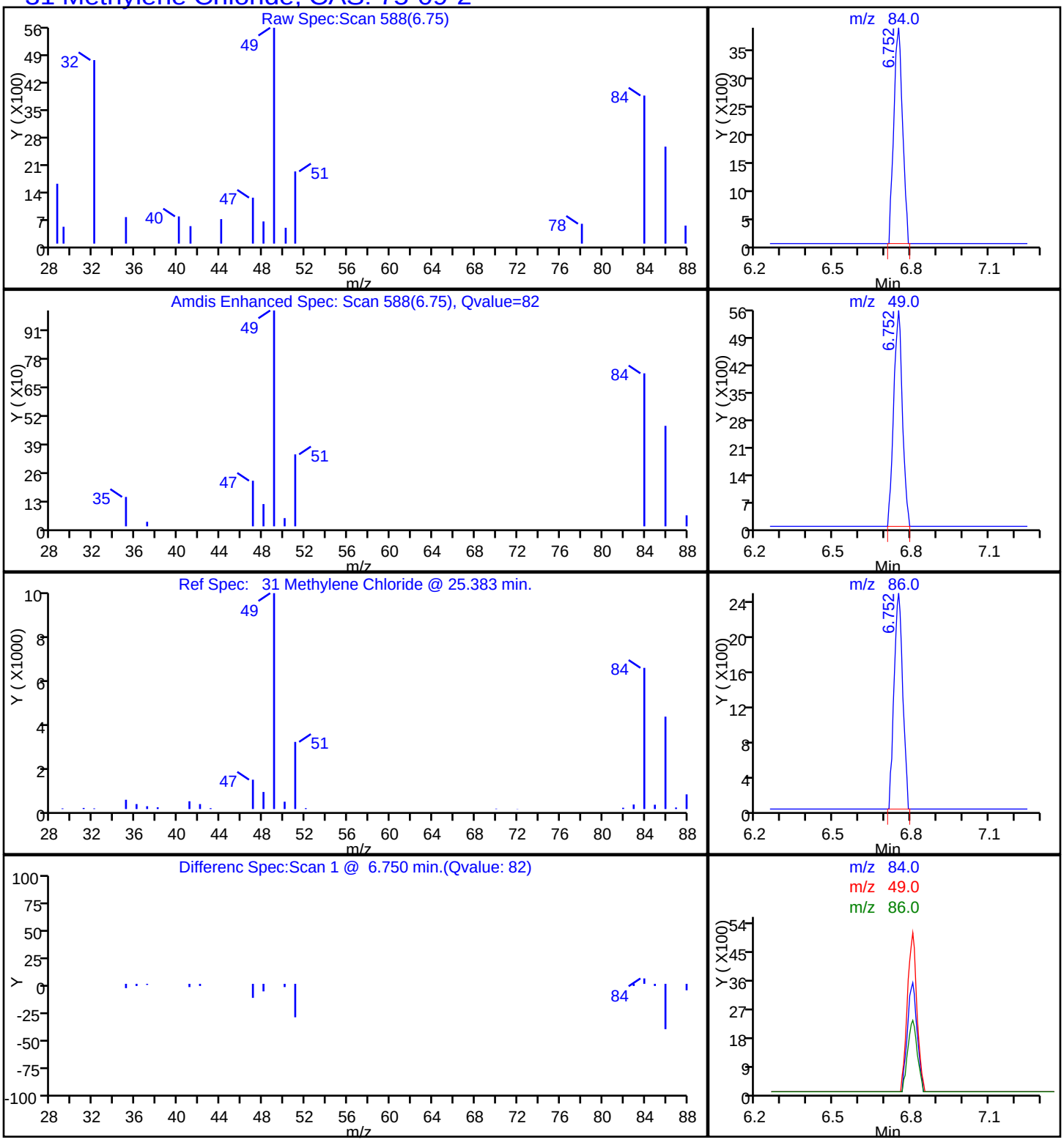
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

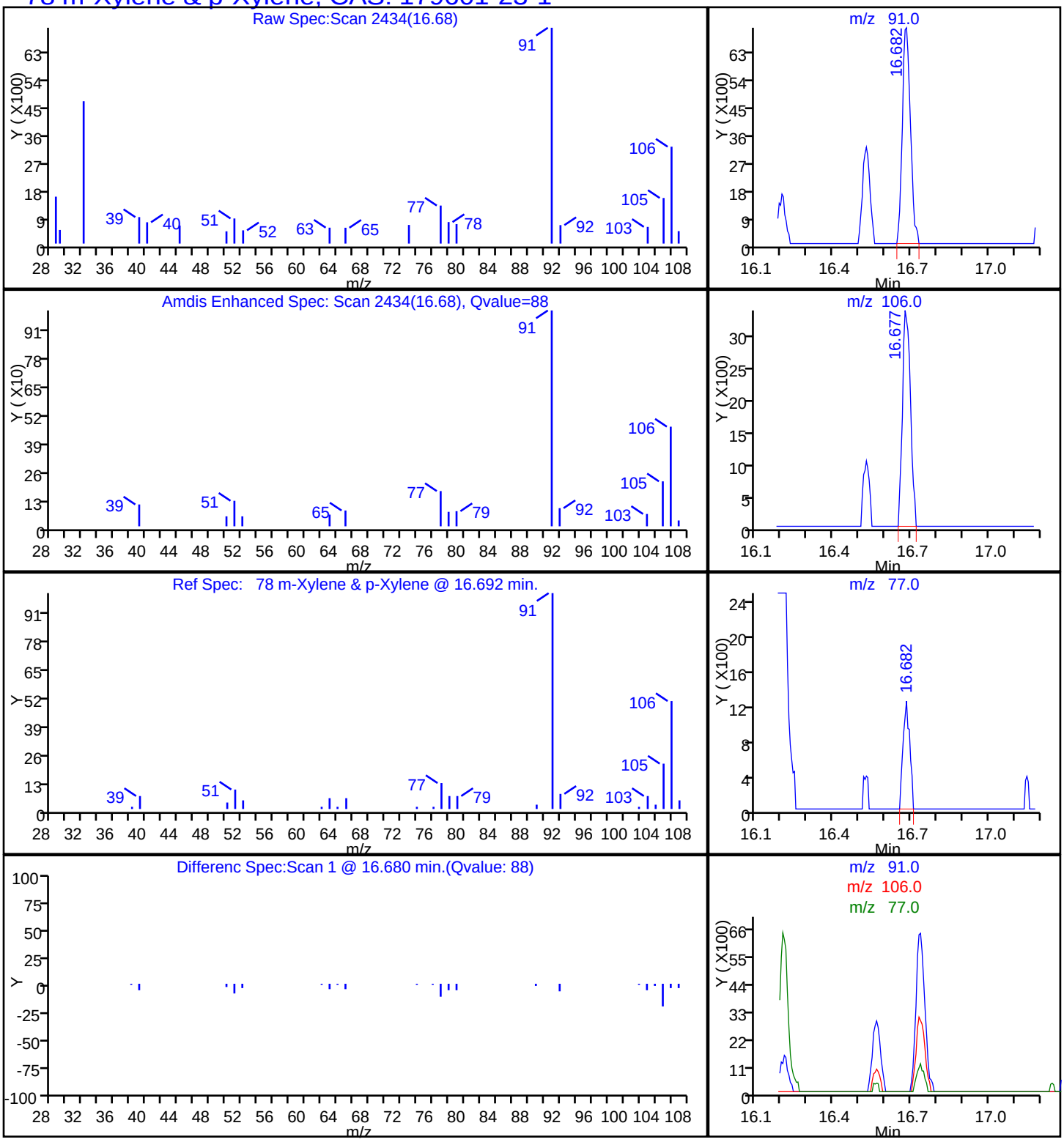


Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D				
Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



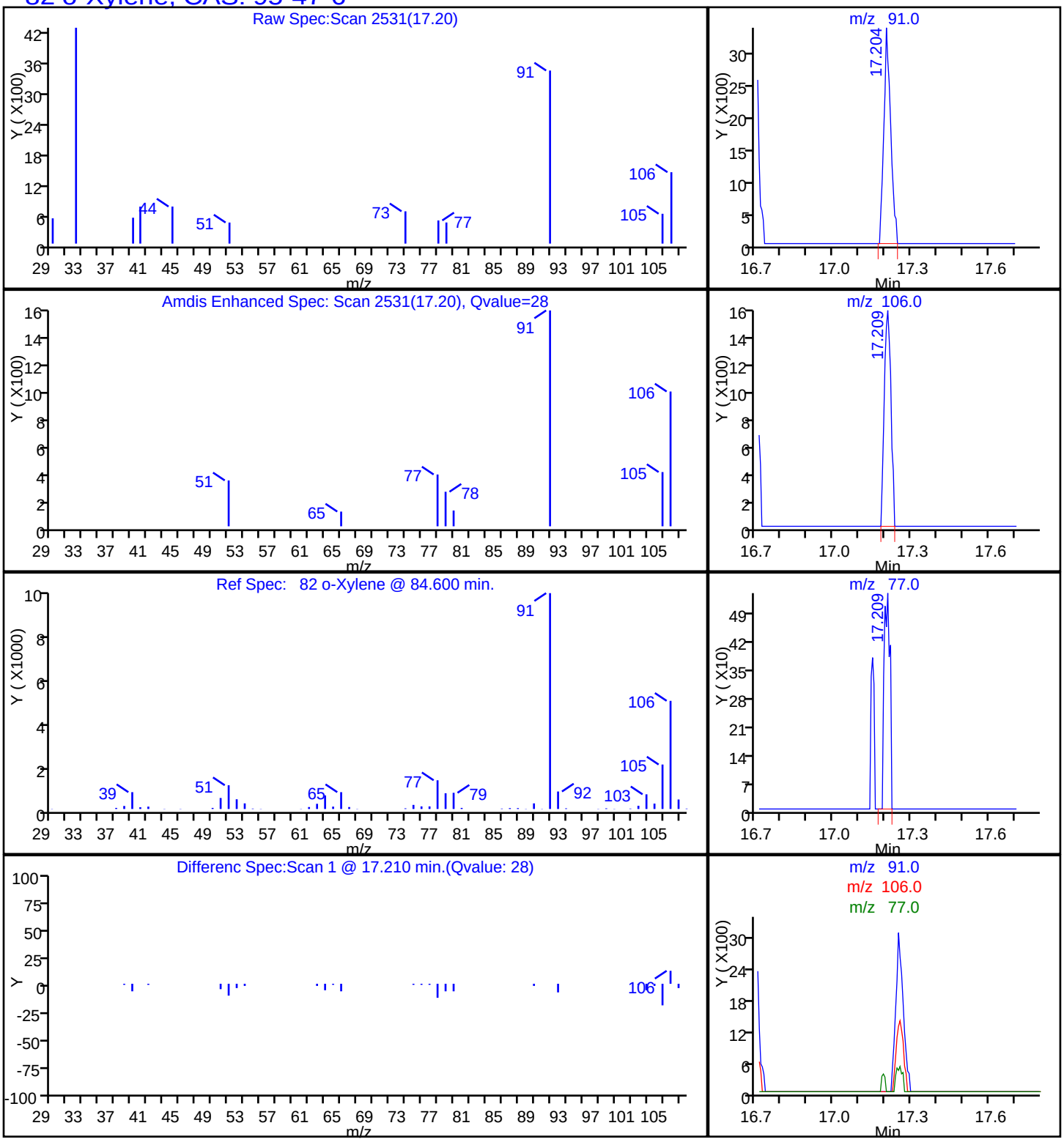
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 o-Xylene, CAS: 95-47-6



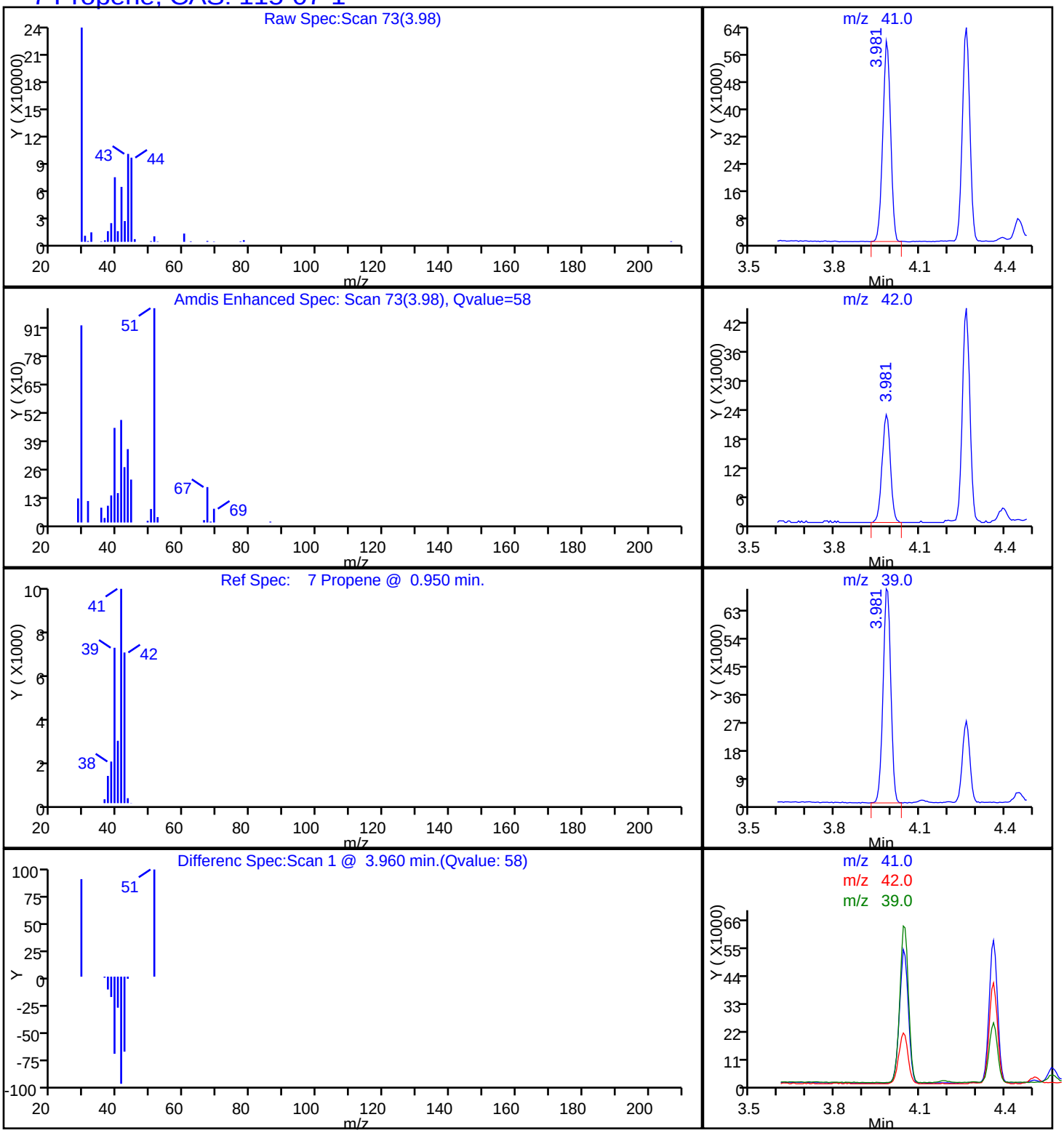
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23
Client ID:	IA1-E17		
Operator ID:	403648	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30 Instrument ID: MJ

Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23

Client ID: IA1-E17

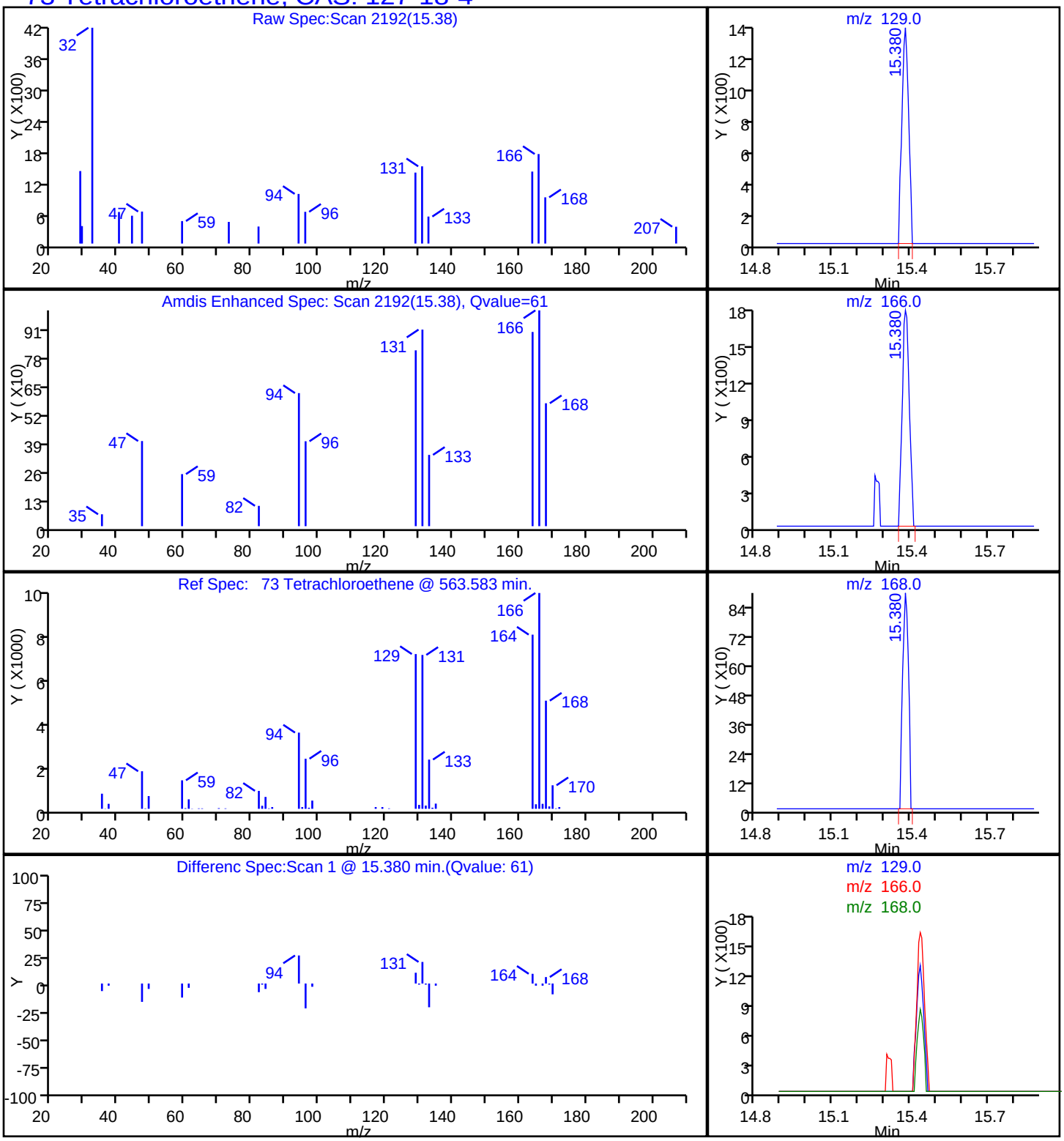
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



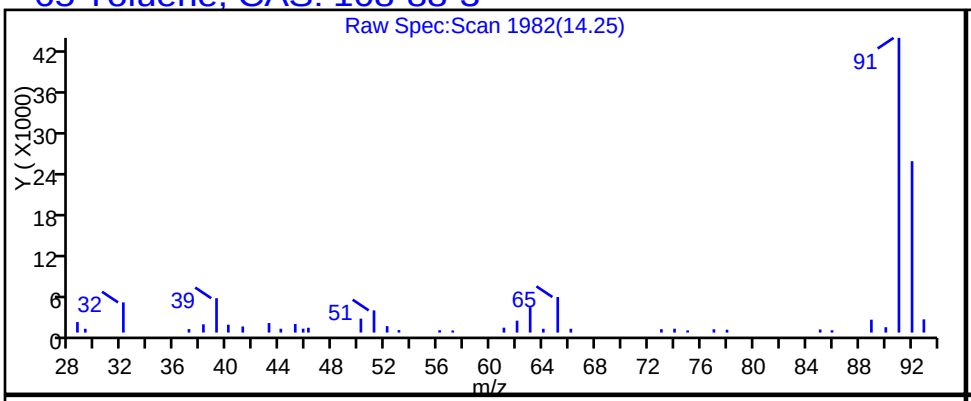
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

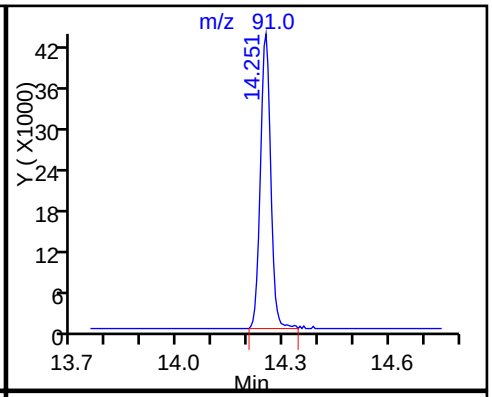
TestAmerica Knoxville

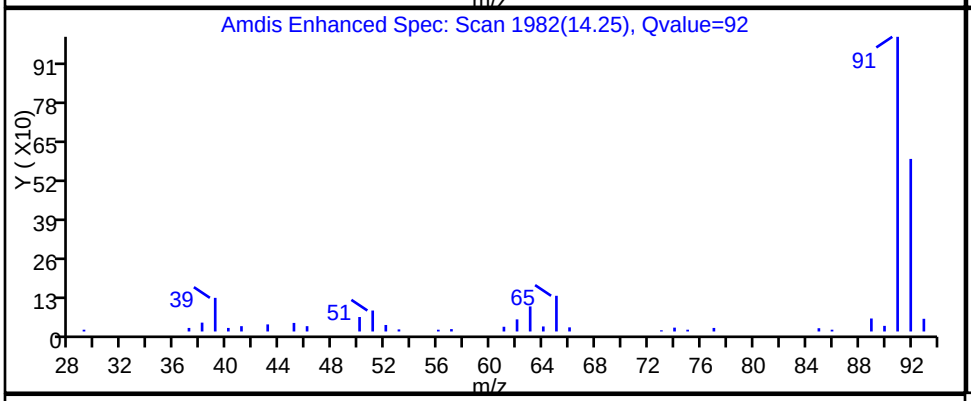
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

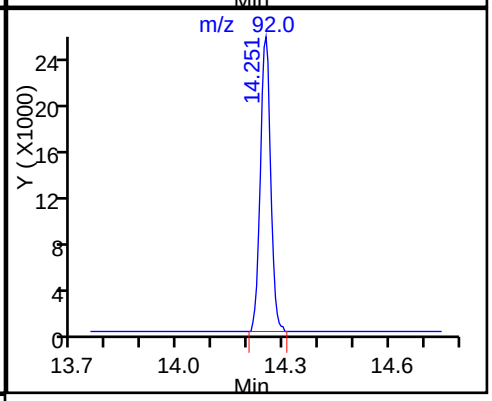
Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

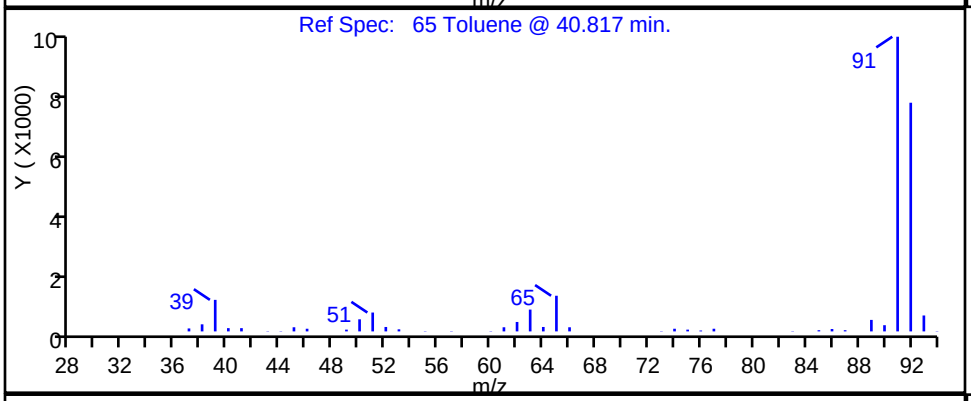
65 Toluene, CAS: 108-88-3

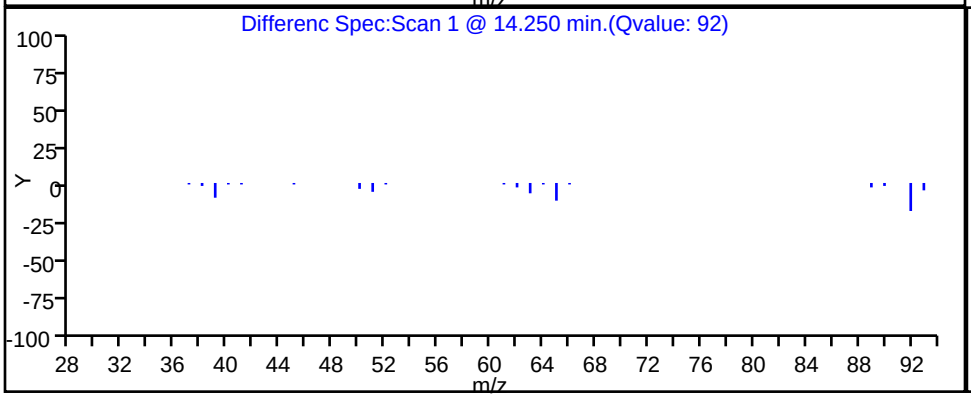


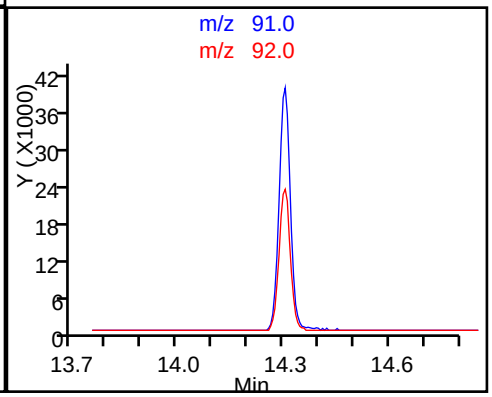












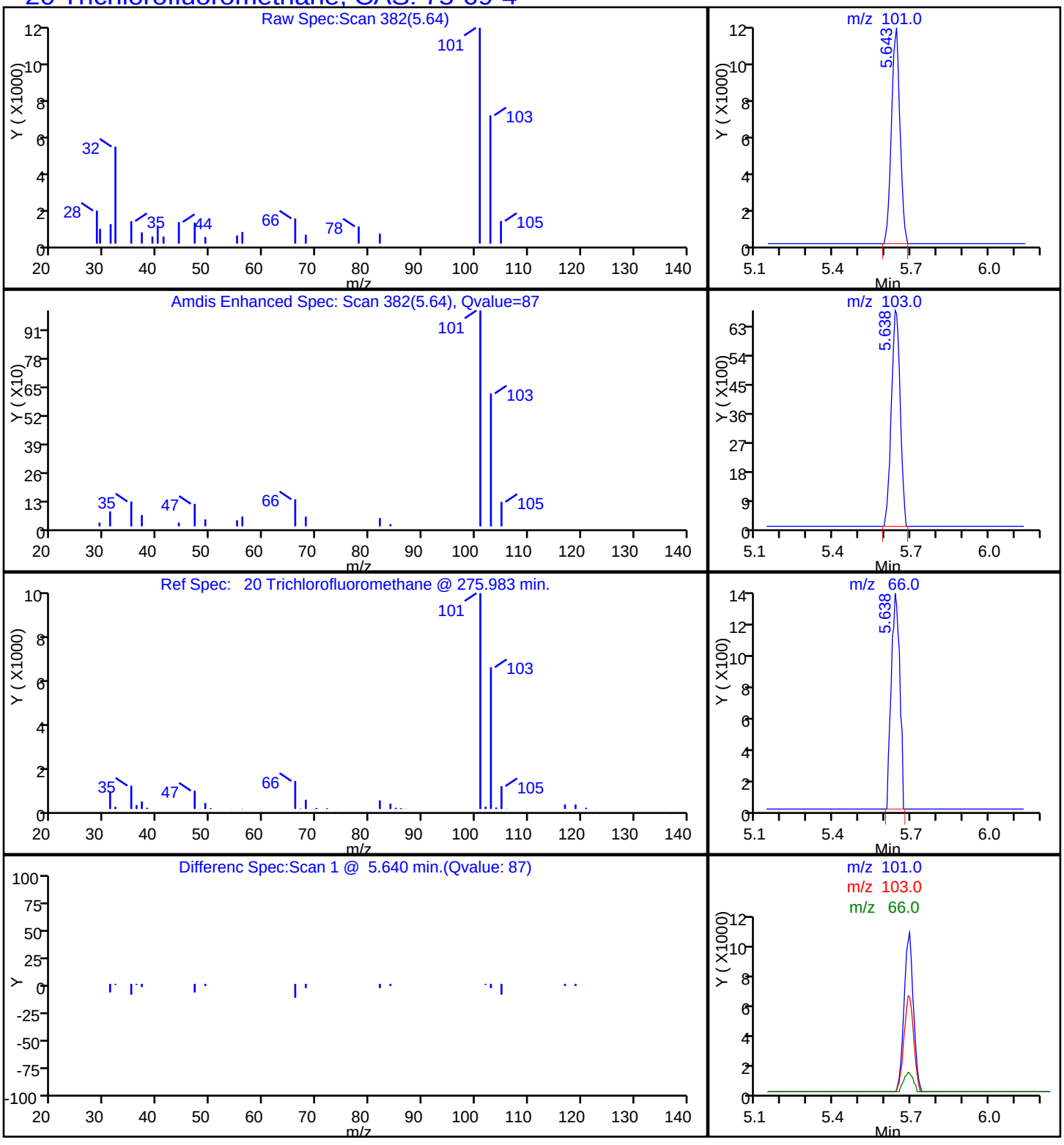
Report Date: 20-Mar-2014 12:50:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date:	19-Mar-2014 23:06:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-23	Lab Sample ID:	140-1063-23		
Client ID:	IA1-E17				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.13	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.27	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.61		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.052	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	18		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.076	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.30	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.15	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.062	J	0.20	0.061
115-07-1	Propene	42.08	2.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.042	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.63		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.28	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.80	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	6.2	J	12	3.3
71-43-2	Benzene	78.11	0.78		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.26	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	33		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.31	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.50	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.65	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.27	J	0.87	0.26
115-07-1	Propene	42.08	4.1	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.29	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24

Matrix: Air Lab File ID: JC19P109.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:45

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D
Lims ID: 140-1063-A-24 Lab Sample ID: 140-1063-24
Client ID: IA1FD-E17
Sample Type: Client
Inject. Date: 20-Mar-2014 00:01:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-24
Misc. Info.: J031914,TO15,,140-0000532-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:50:00 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:47:04

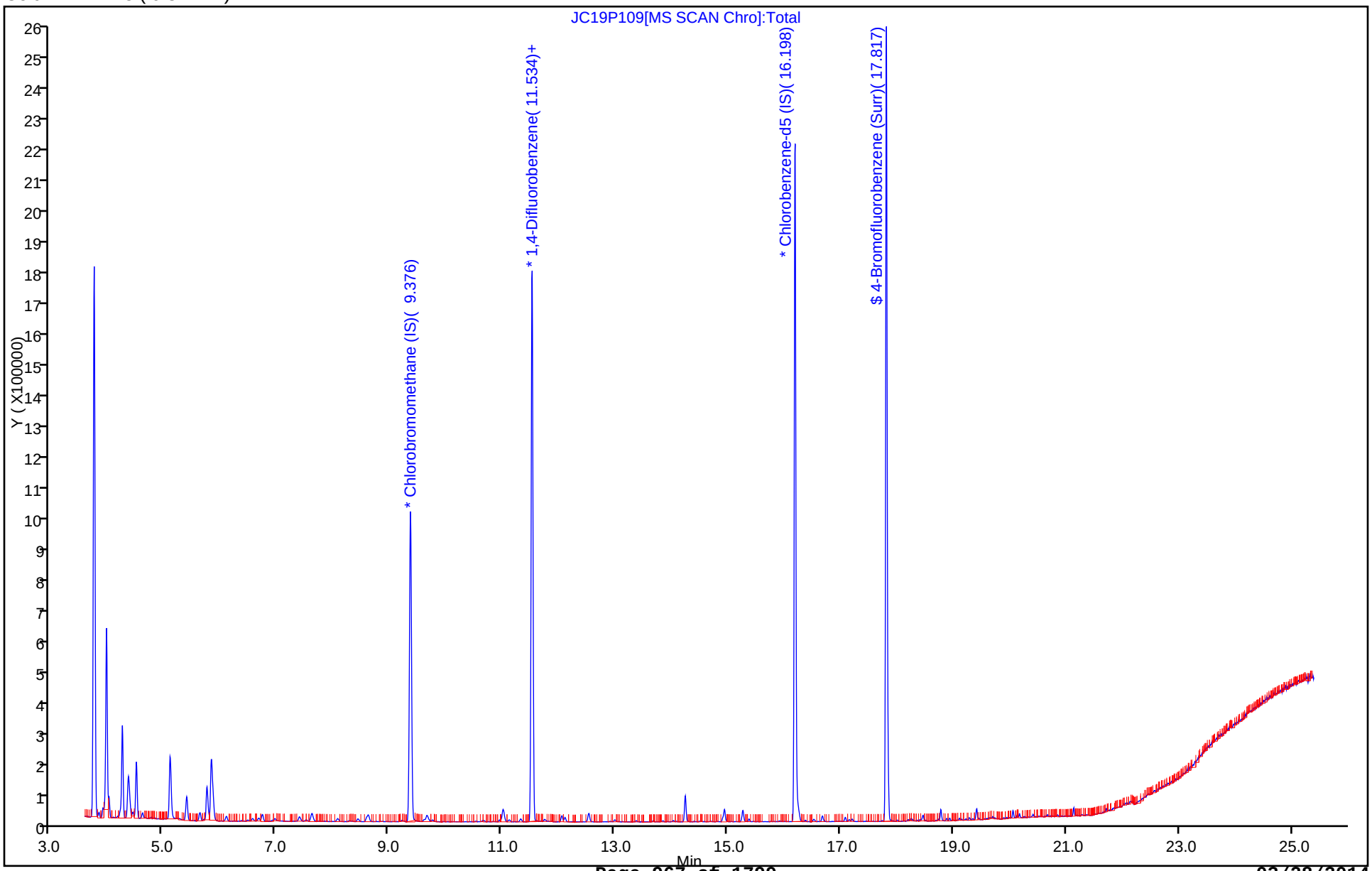
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	90	358412	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1739516	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1451460	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	92	984160	3.83	
7 Propene	41	3.981	3.973	0.008	46	104755	0.9532	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	61452	0.1731	
9 Chloromethane	52	4.234	4.231	0.003	97	9071	0.2249	
14 Butadiene	54	4.508	4.516	-0.008	26	4726	0.0512	
17 Ethanol	31	5.111	5.119	-0.008	94	201437	7.00	
19 2-Methylbutane	43	5.406	5.409	-0.003	91	37420	0.2458	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	89	24861	0.0797	
23 Acetone	58	5.767	5.770	-0.003	98	53453	1.05	
24 Isopropyl alcohol	45	5.842	5.850	-0.008	96	288023	2.14	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.582	-0.008	54	5898	0.0273	
31 Methylene Chloride	84	6.751	6.754	-0.003	83	11691	0.1219	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	81	3682	0.1085	
40 Hexane	56	8.629	8.637	-0.008	76	5520	0.0573	
43 Chloroform	83	9.387	9.396	-0.009	3	4369	0.0209	
48 Benzene	78	11.017	11.026	-0.009	93	29138	0.0976	
50 Carbon tetrachloride	117	11.039	11.047	-0.008	85	6510	0.0264	
54 n-Heptane	71	12.115	12.123	-0.008	80	3216	0.0305	
65 Toluene	91	14.250	14.253	-0.003	92	67642	0.2512	
73 Tetrachloroethene	129	15.380	15.383	-0.003	59	2114	0.0169	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	14370	0.0599	
82 o-Xylene	91	17.209	17.212	-0.003	32	6051	0.0249	

Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24	Worklist Smp#:	15
Client ID:	IA1FD-E17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



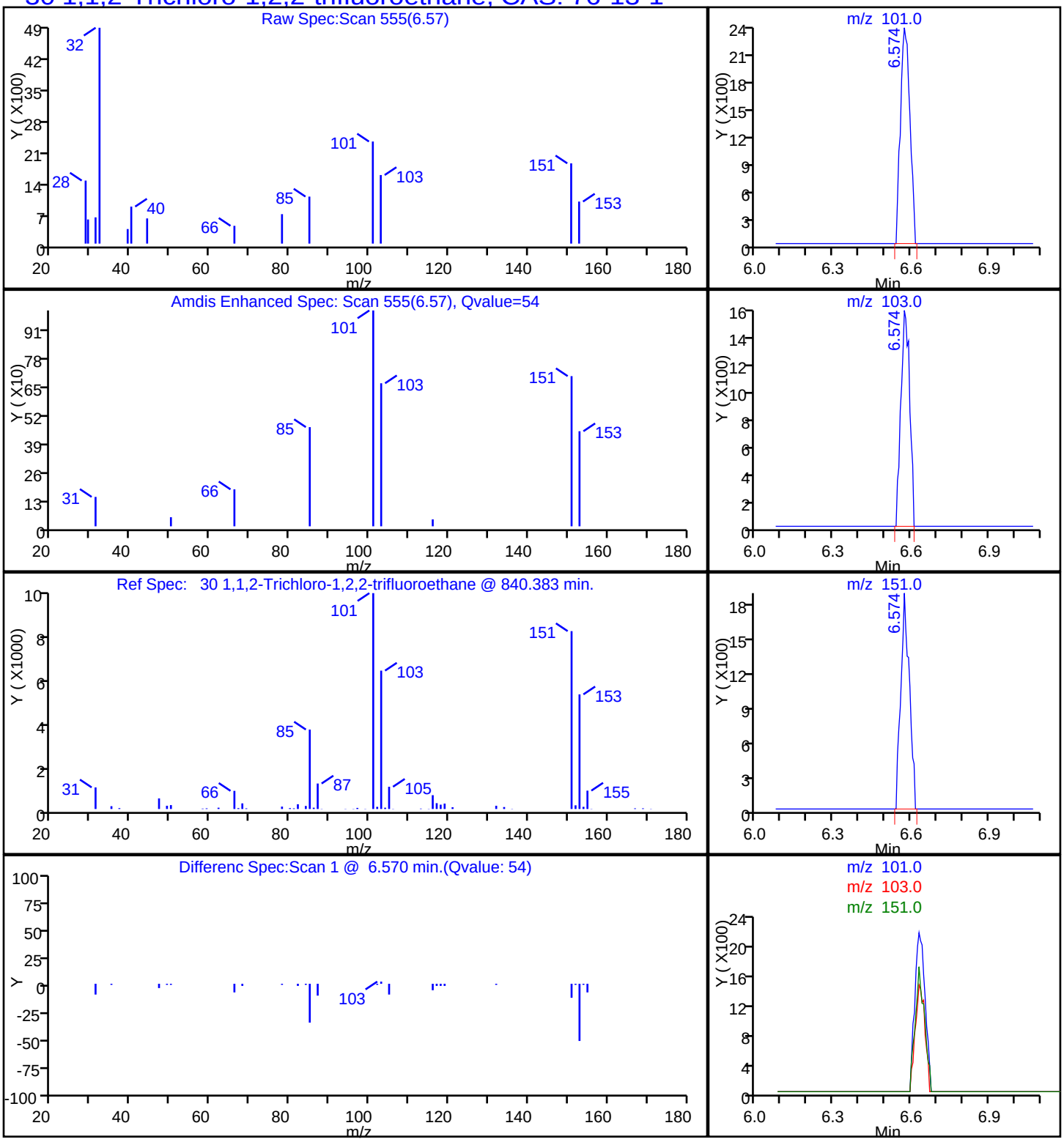
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-24 Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

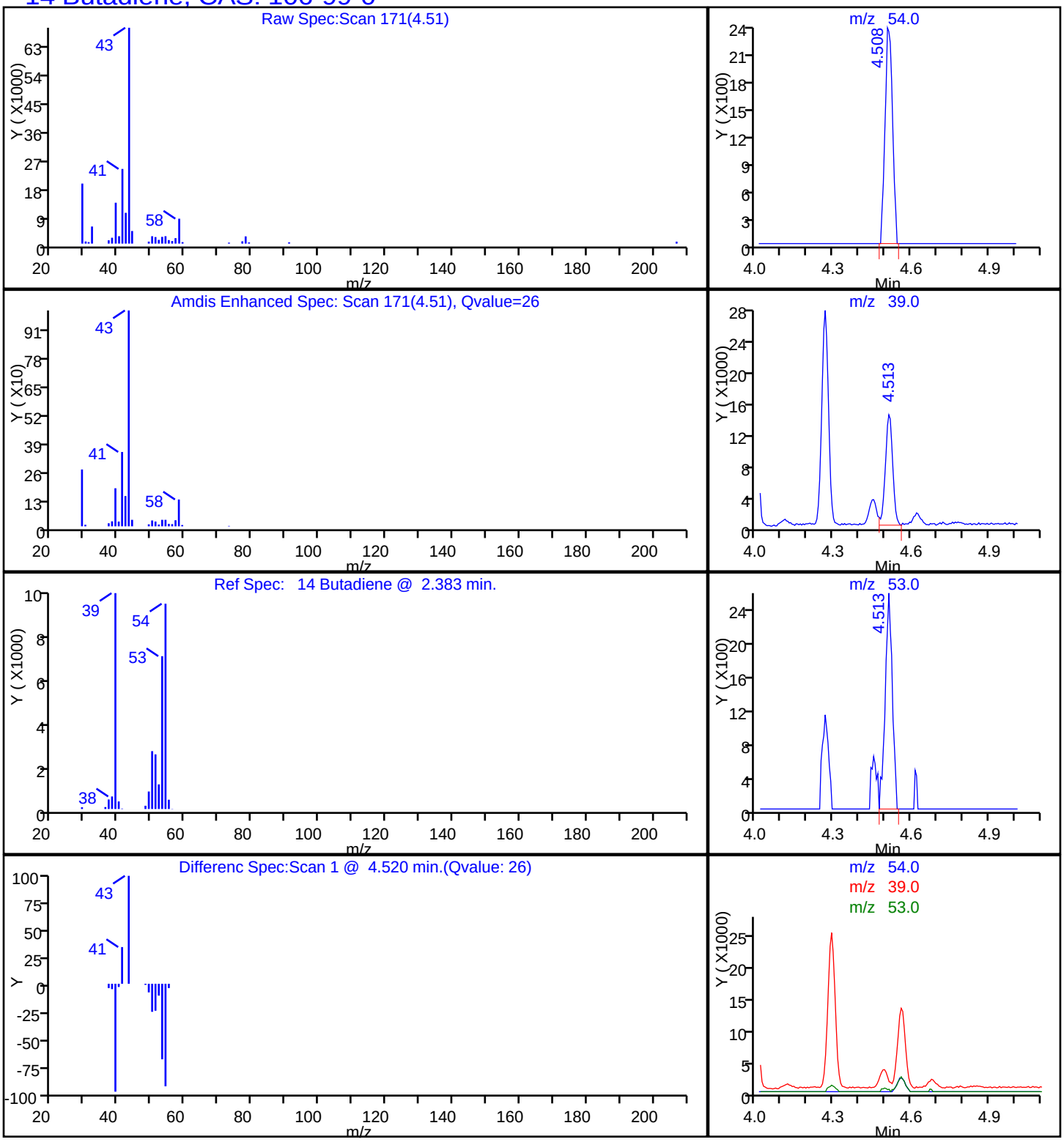
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

14 Butadiene, CAS: 106-99-0

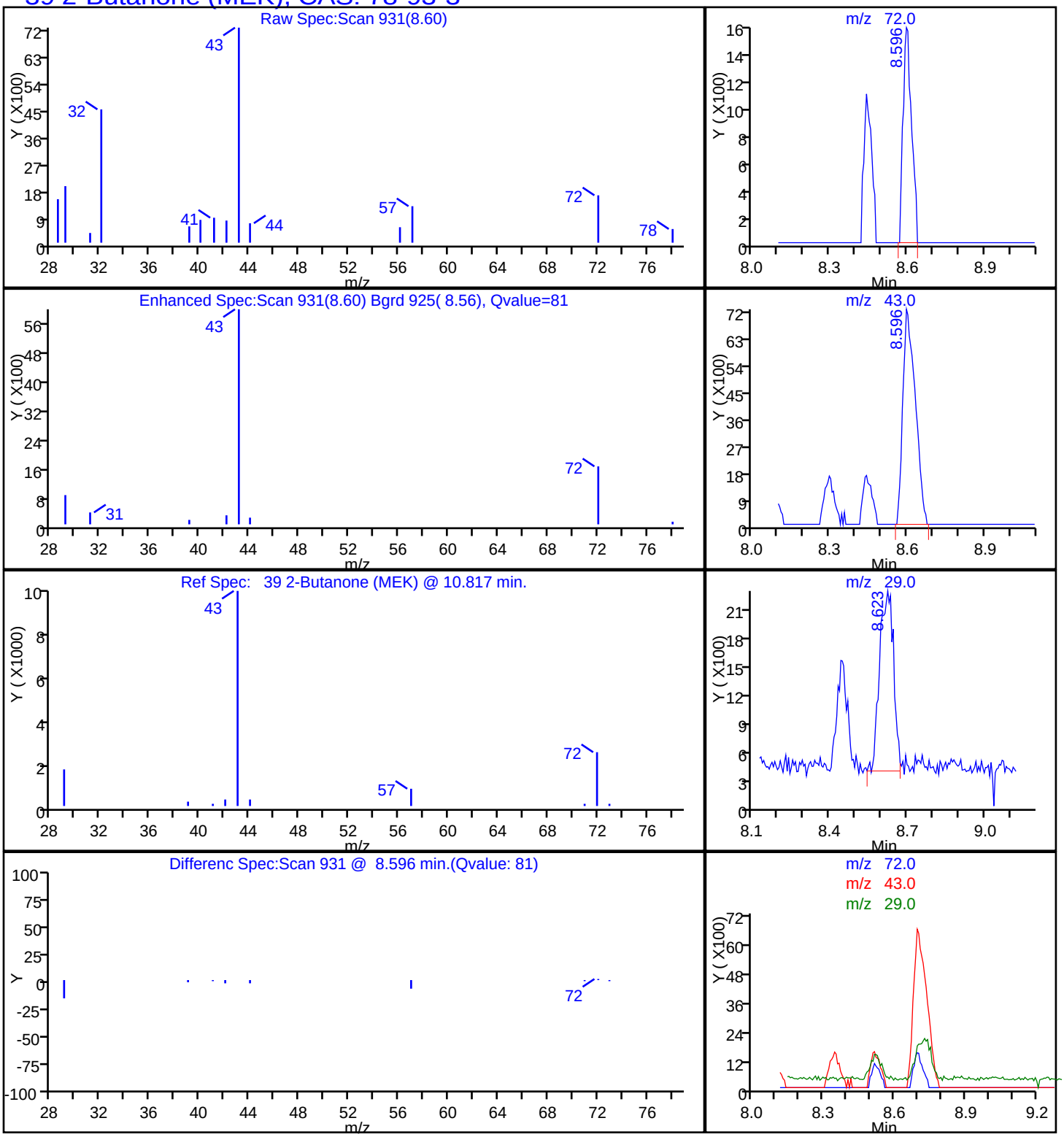


Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

39 2-Butanone (MEK), CAS: 78-93-3



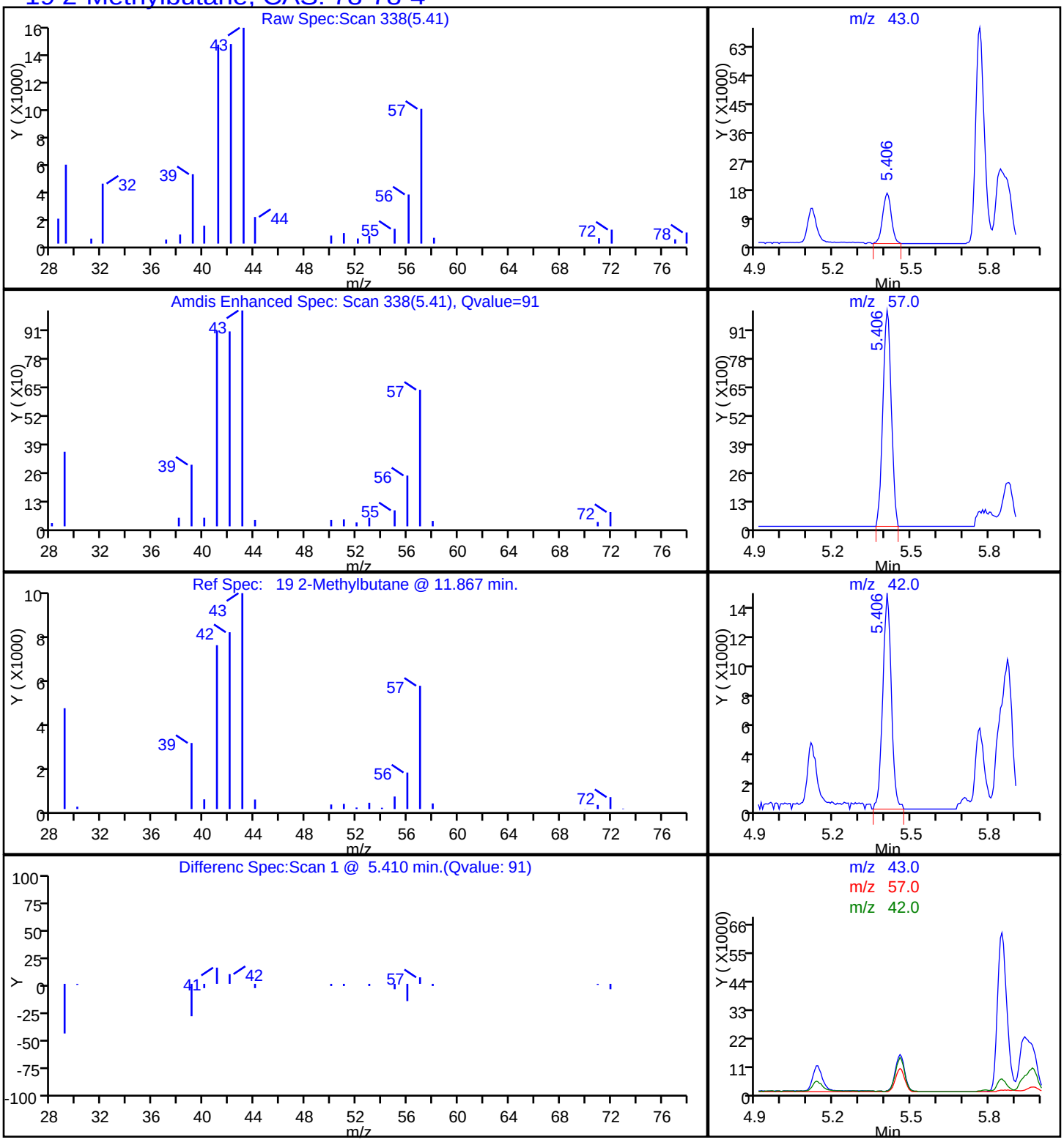
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

19 2-Methylbutane, CAS: 78-78-4



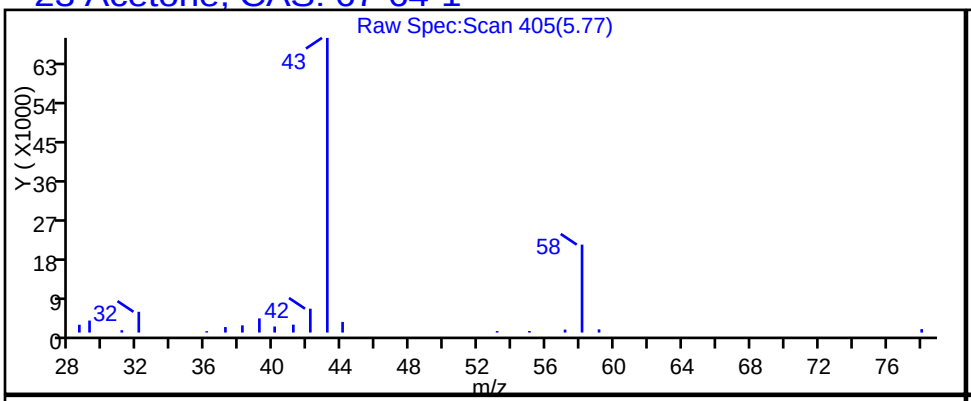
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

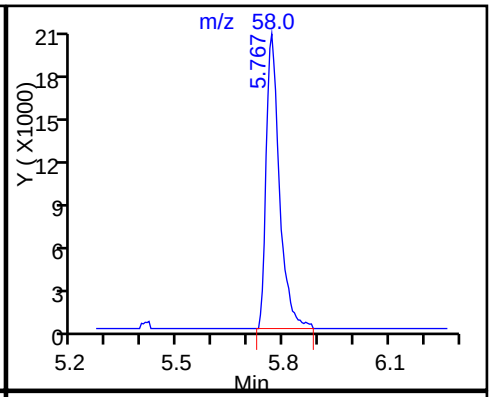
TestAmerica Knoxville

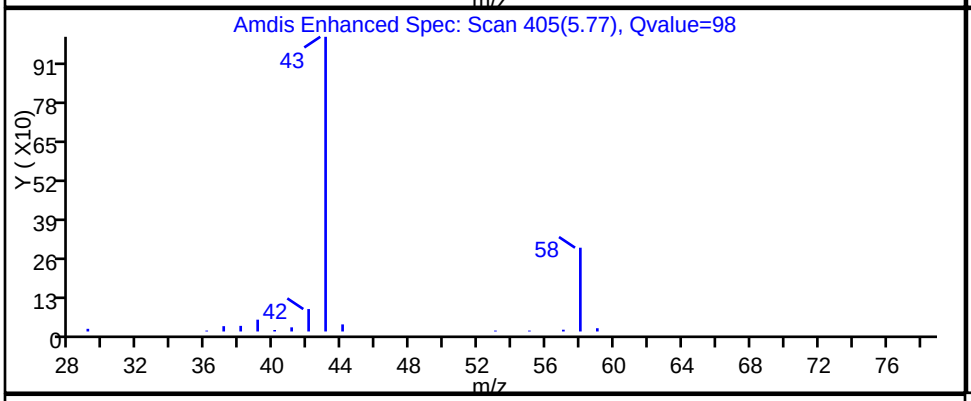
Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

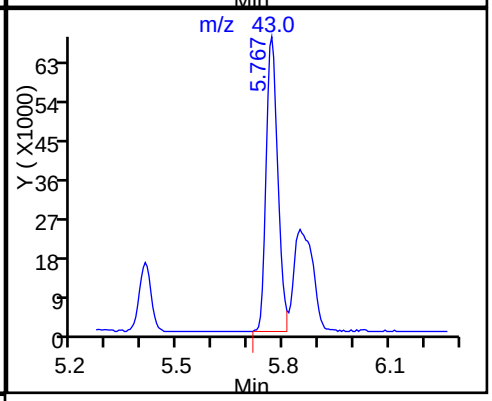
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

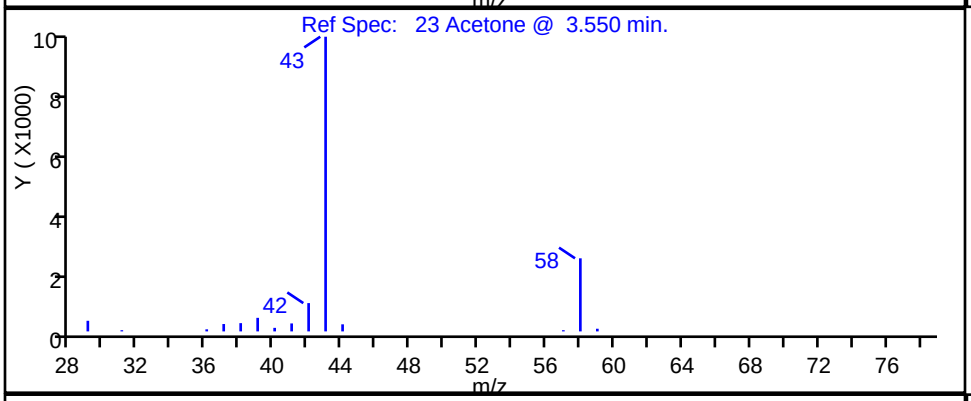
23 Acetone, CAS: 67-64-1

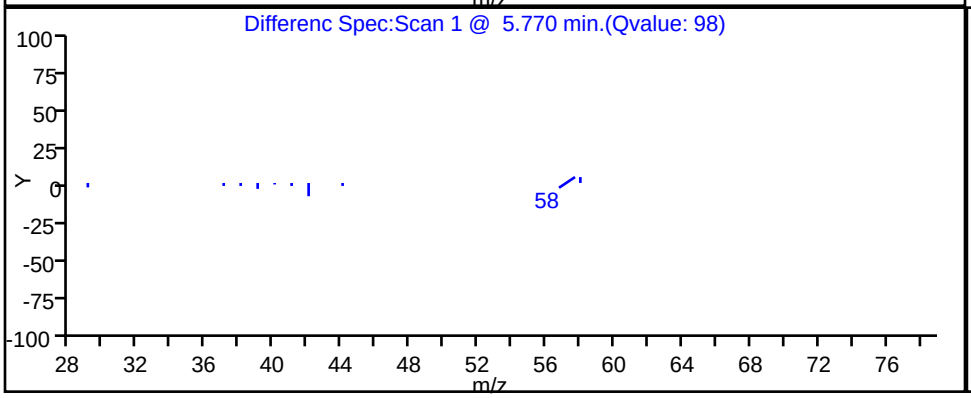


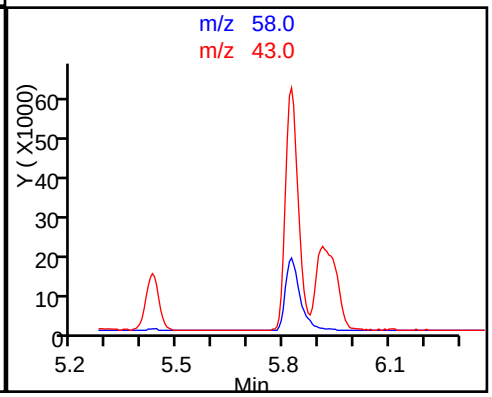












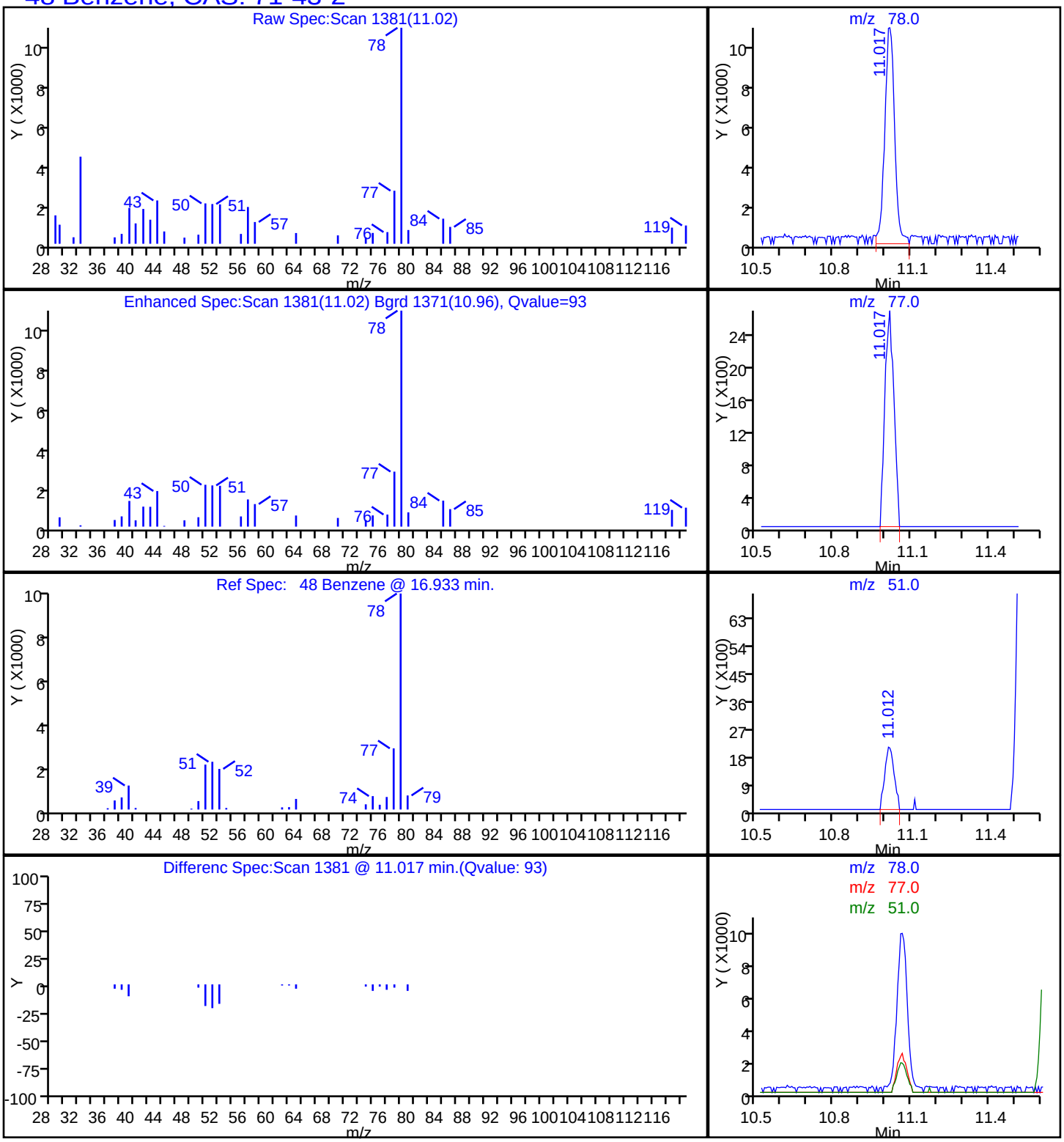
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

48 Benzene, CAS: 71-43-2



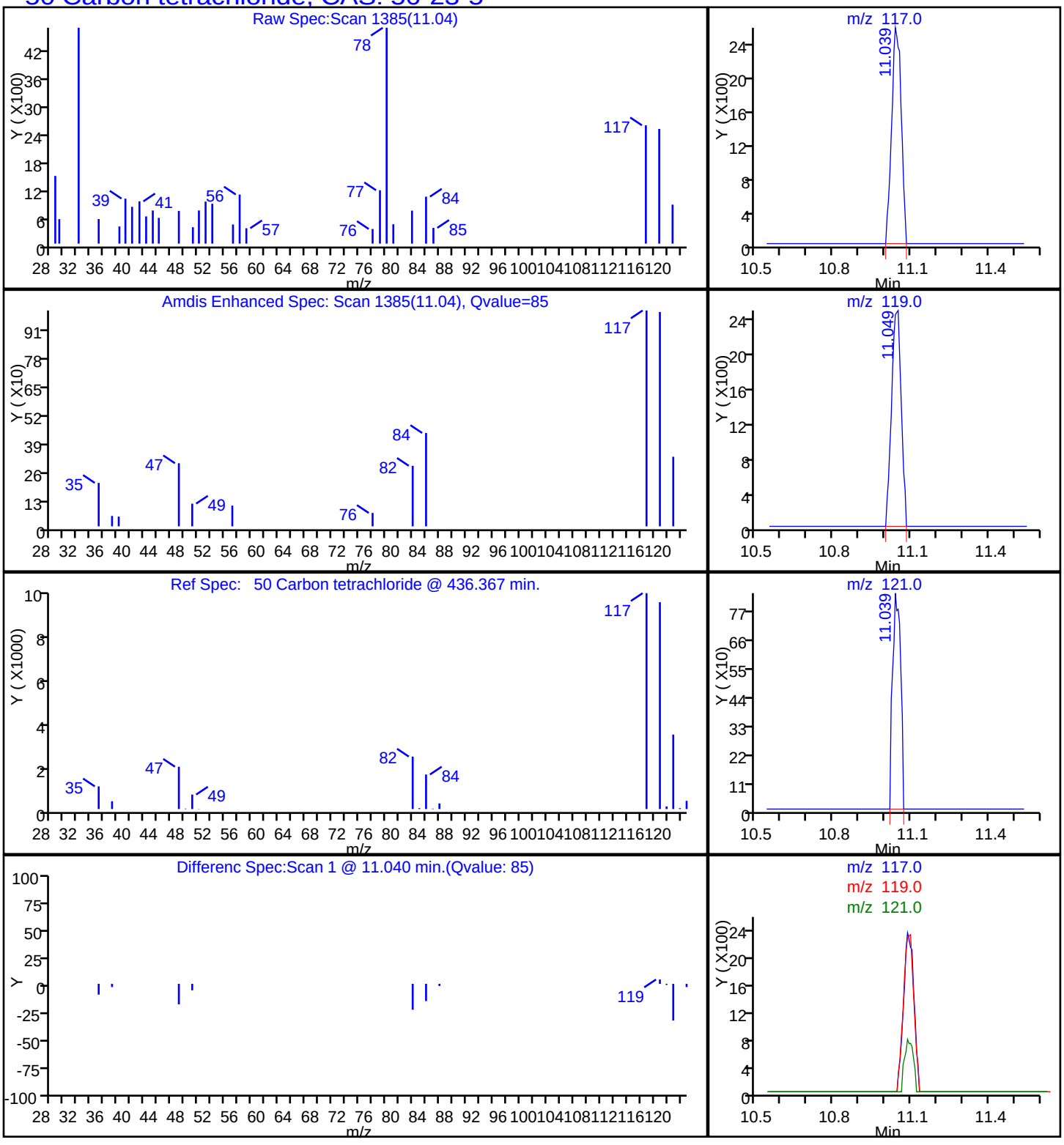
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-24 Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

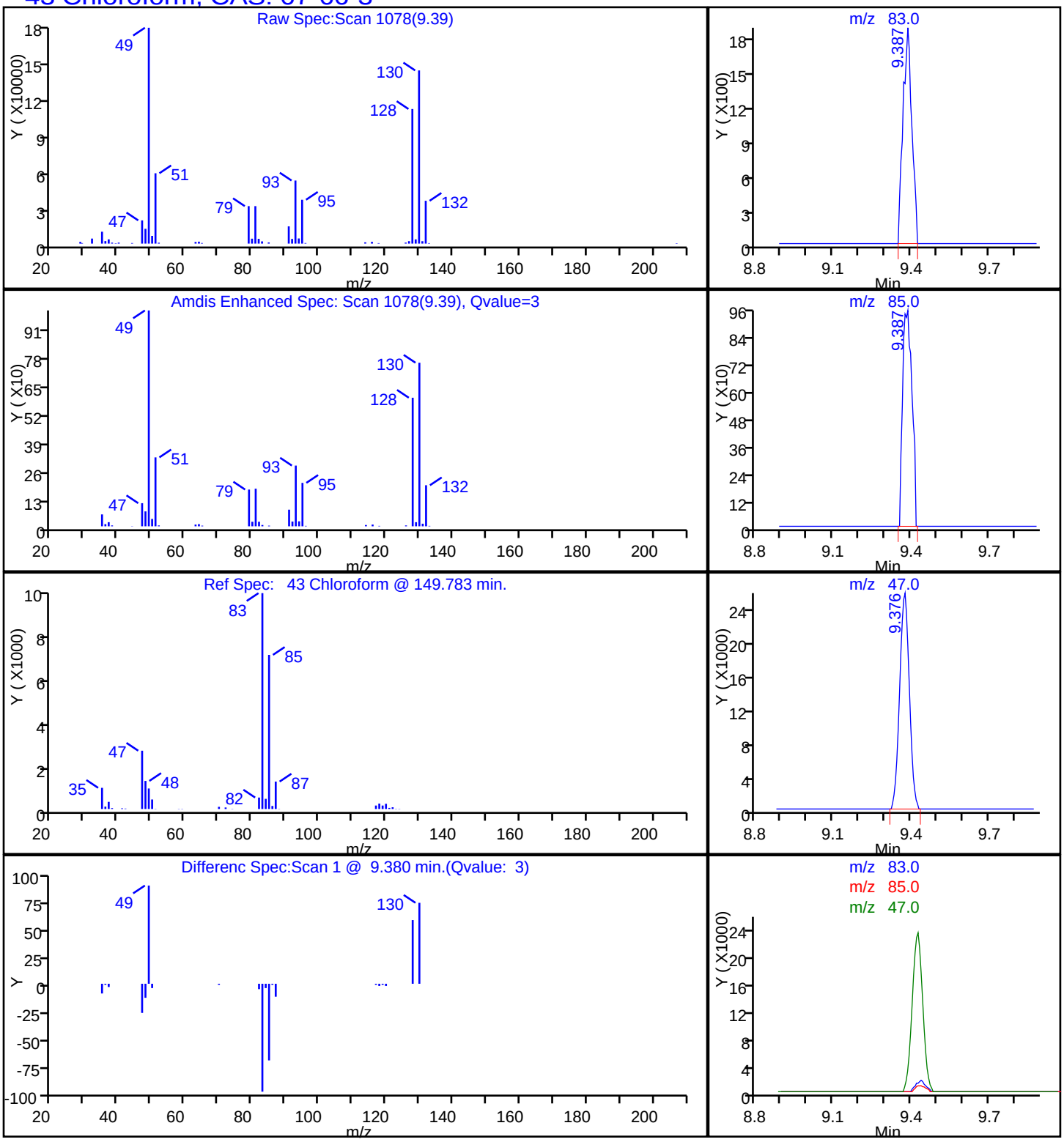
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

43 Chloroform, CAS: 67-66-3



Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30 Instrument ID: MJ

Lims ID: 140-1063-A-24 Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

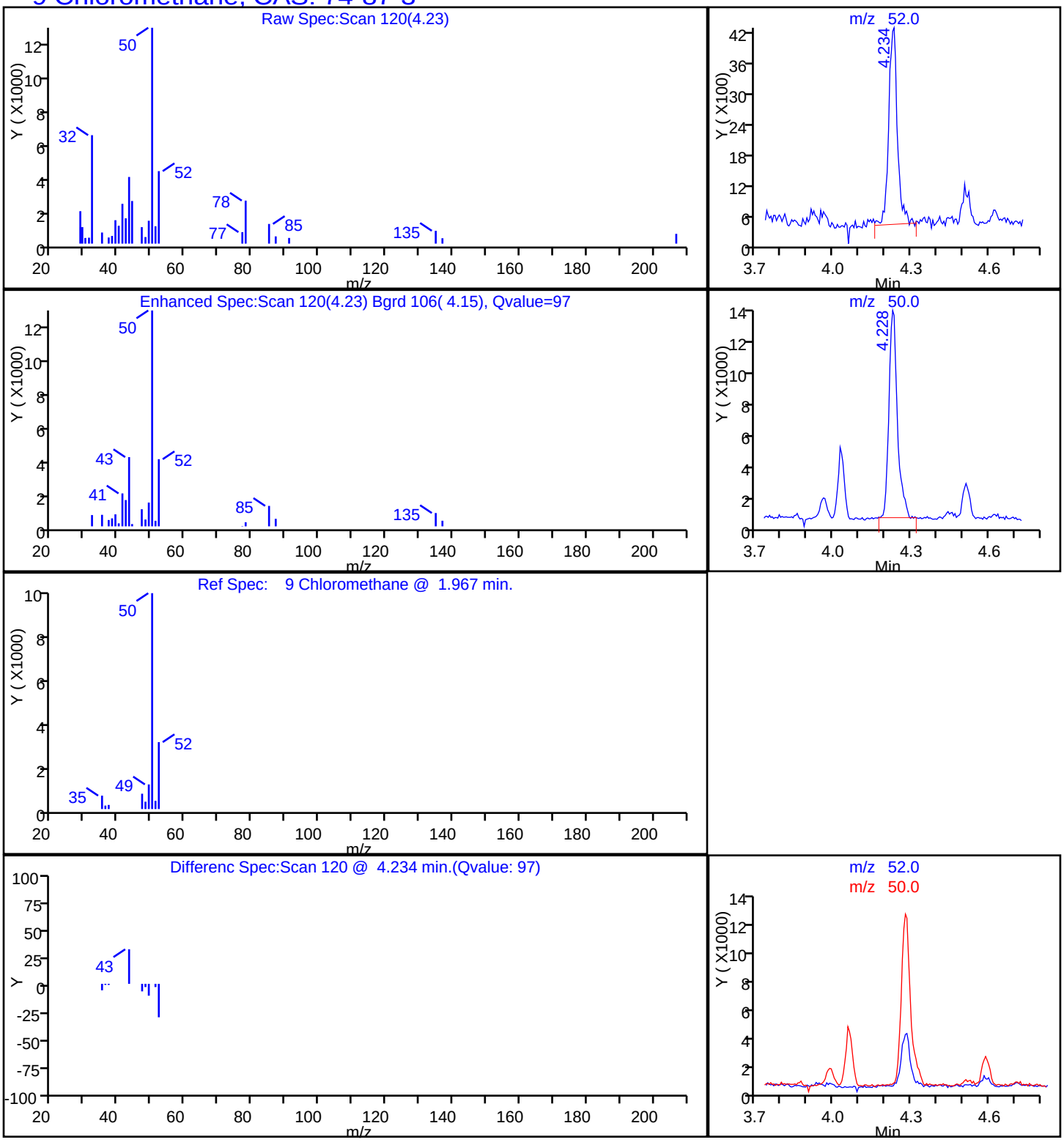
Operator ID: 403648 ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

9 Chloromethane, CAS: 74-87-3



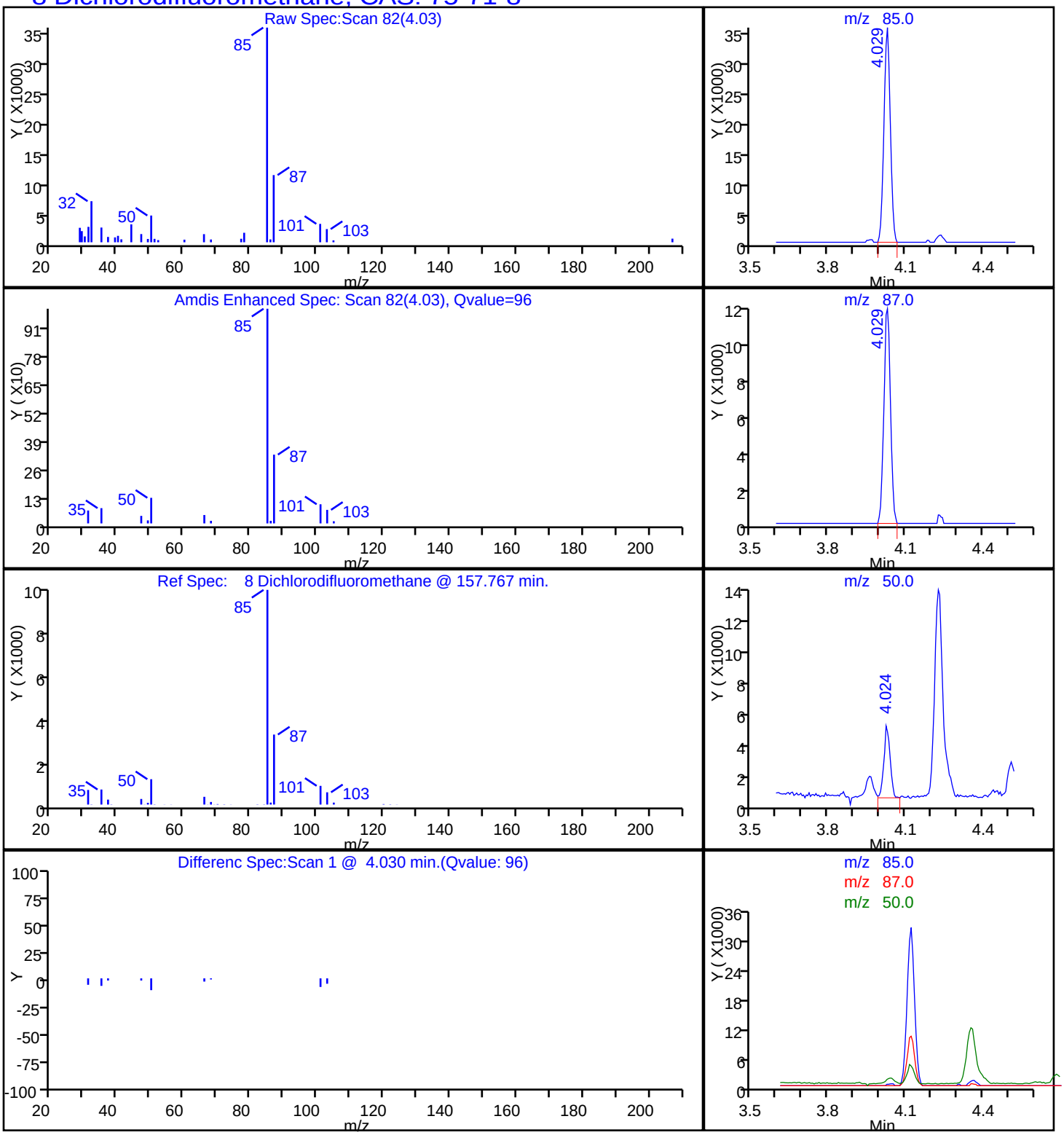
Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

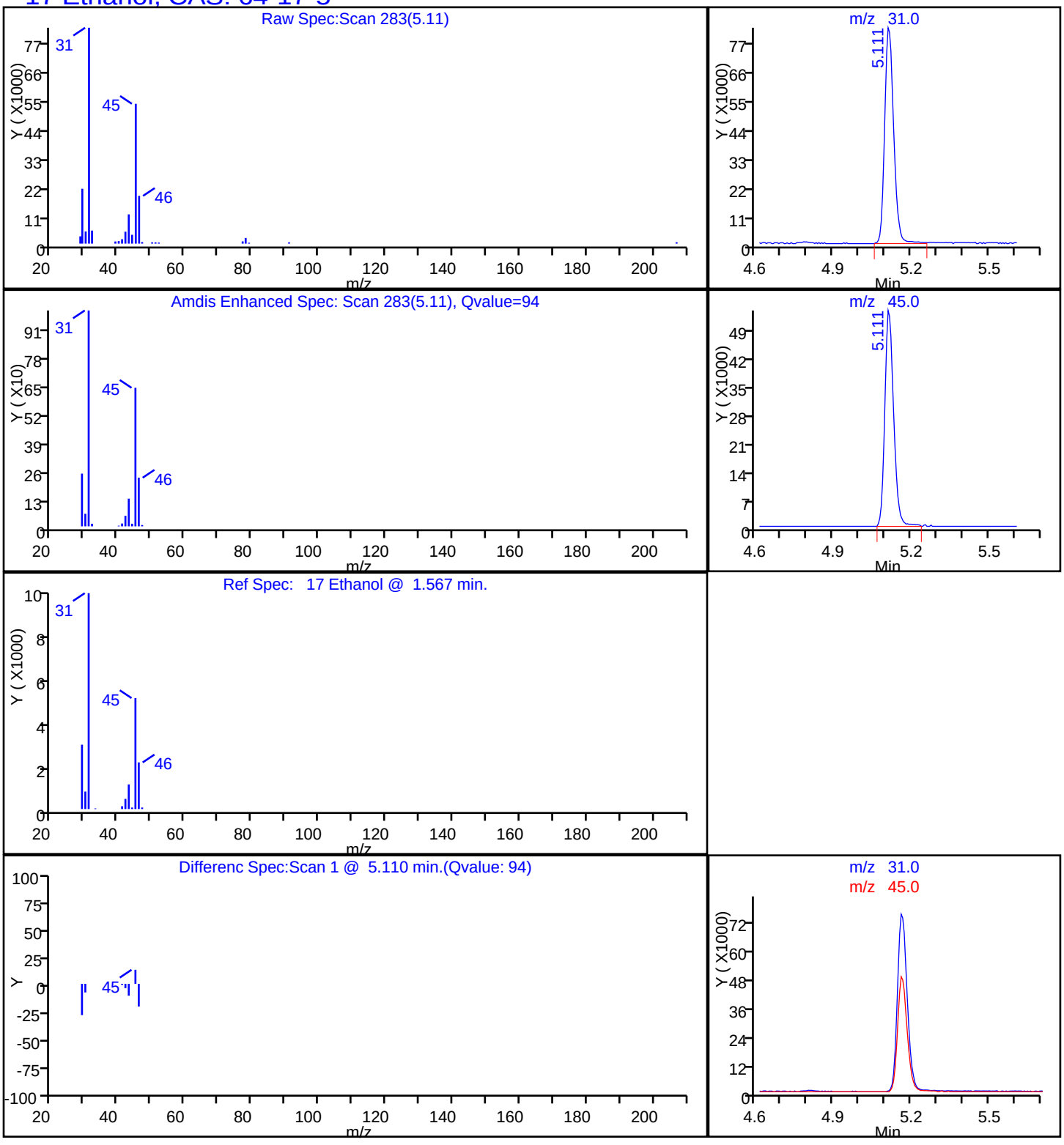


Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



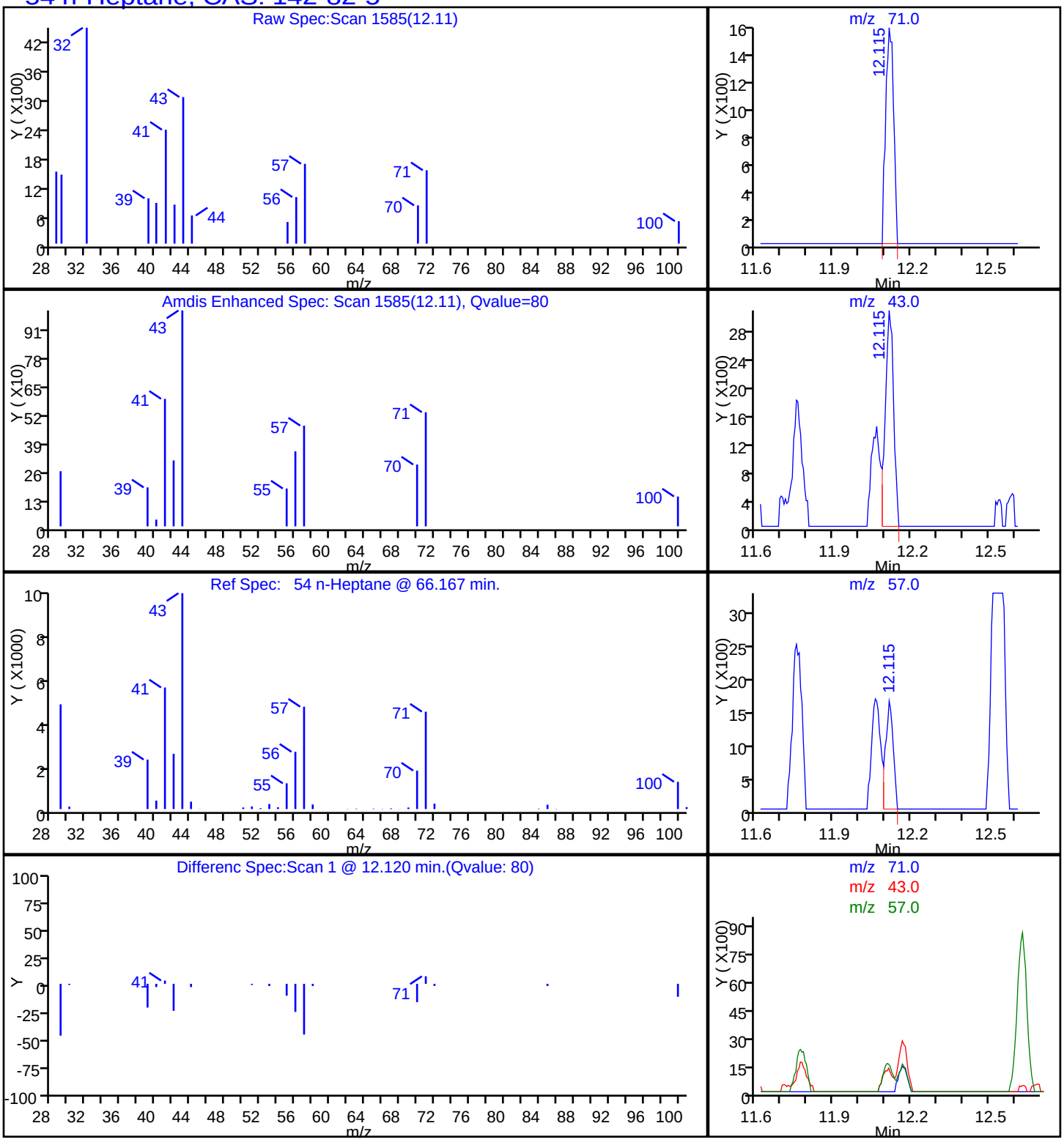
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5

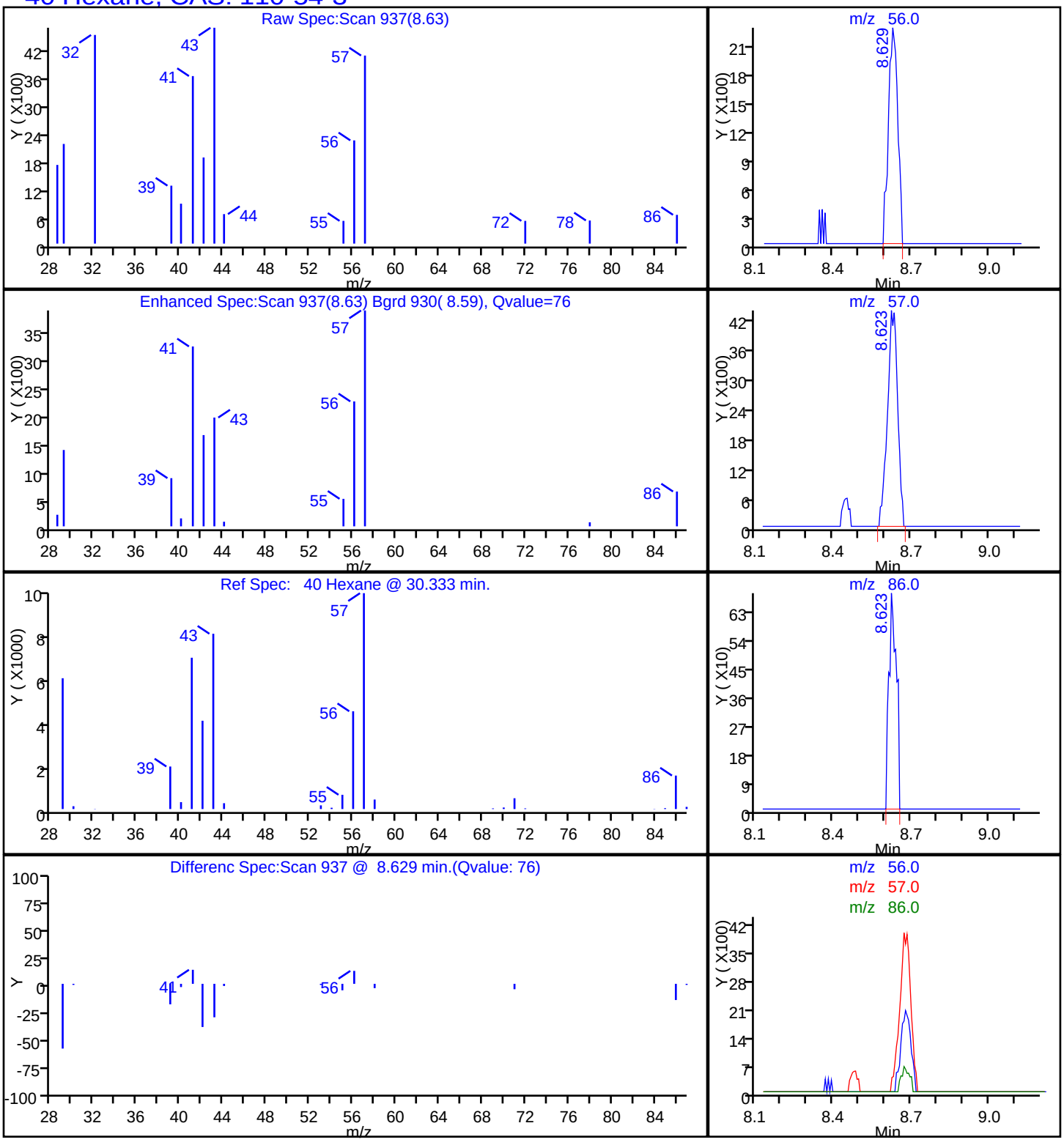


Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



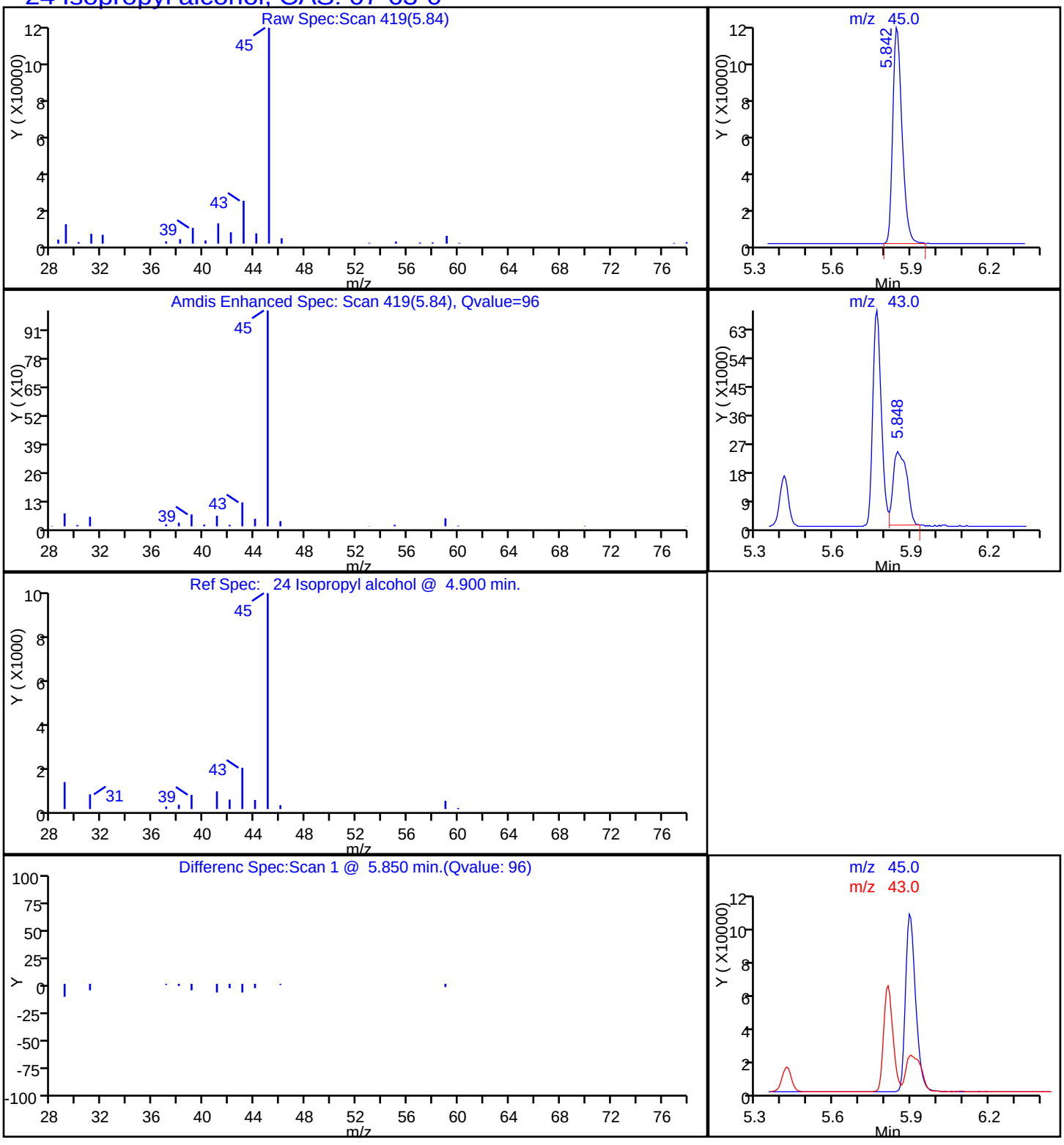
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

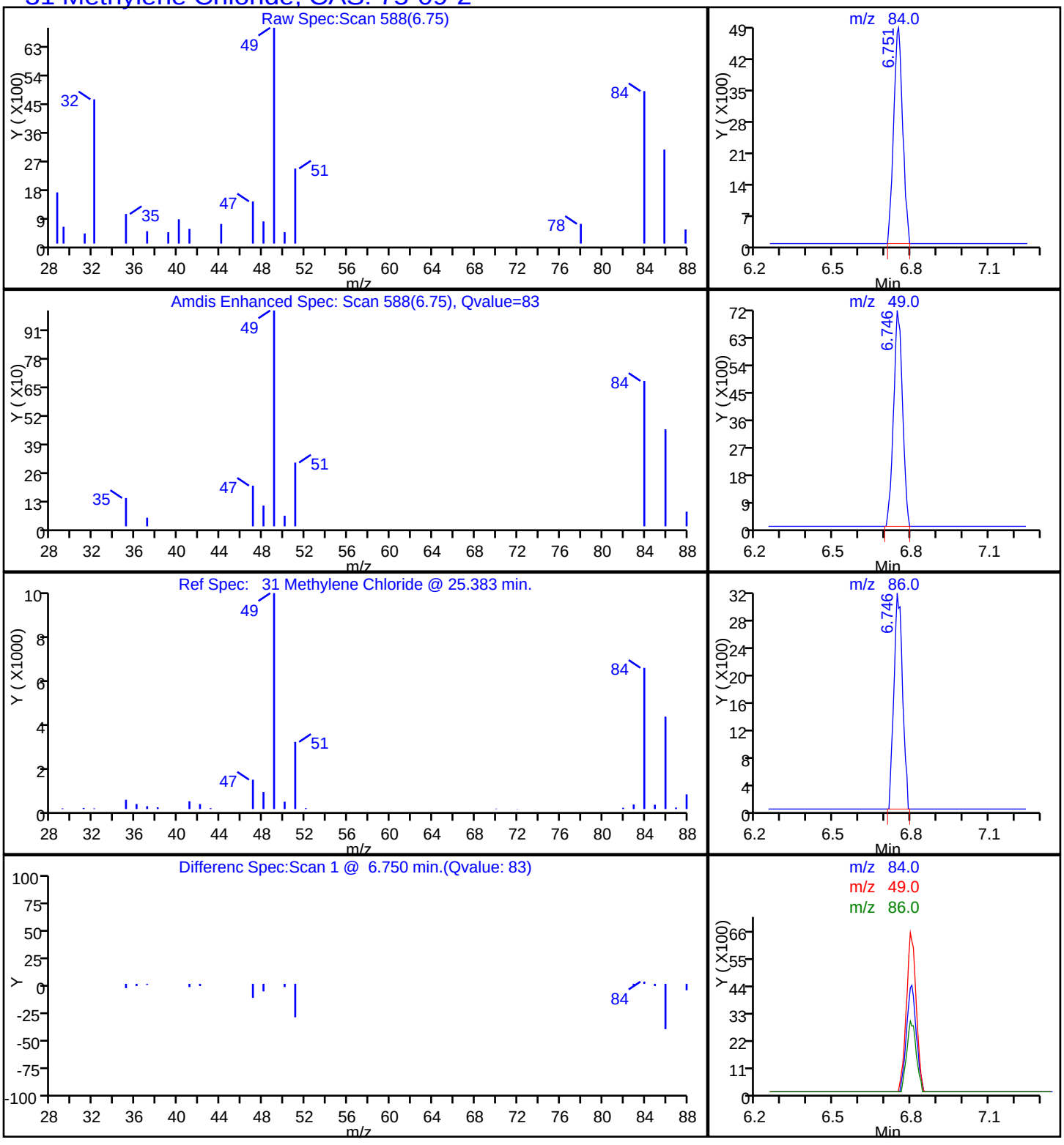
24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2

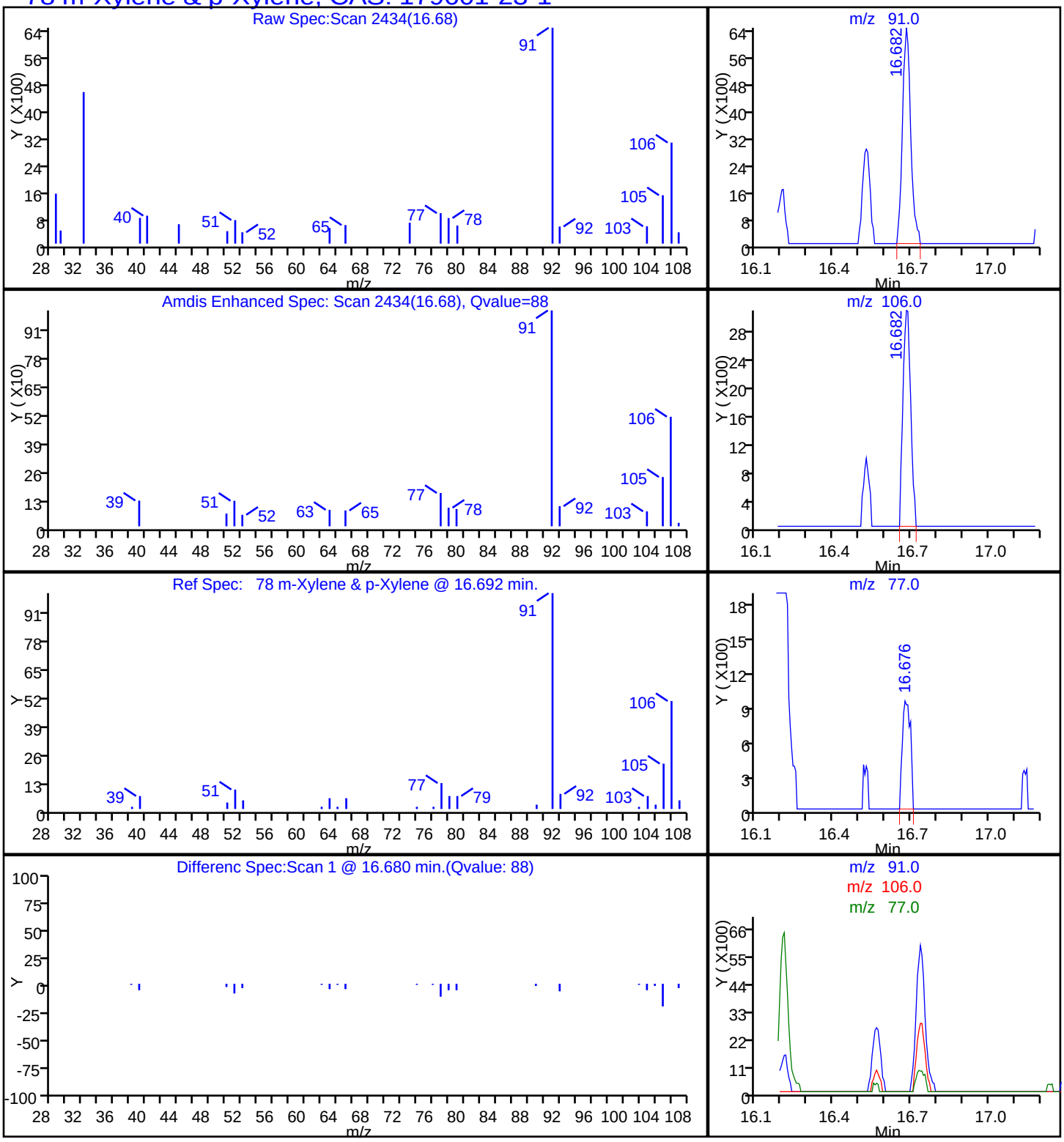


Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D				
Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



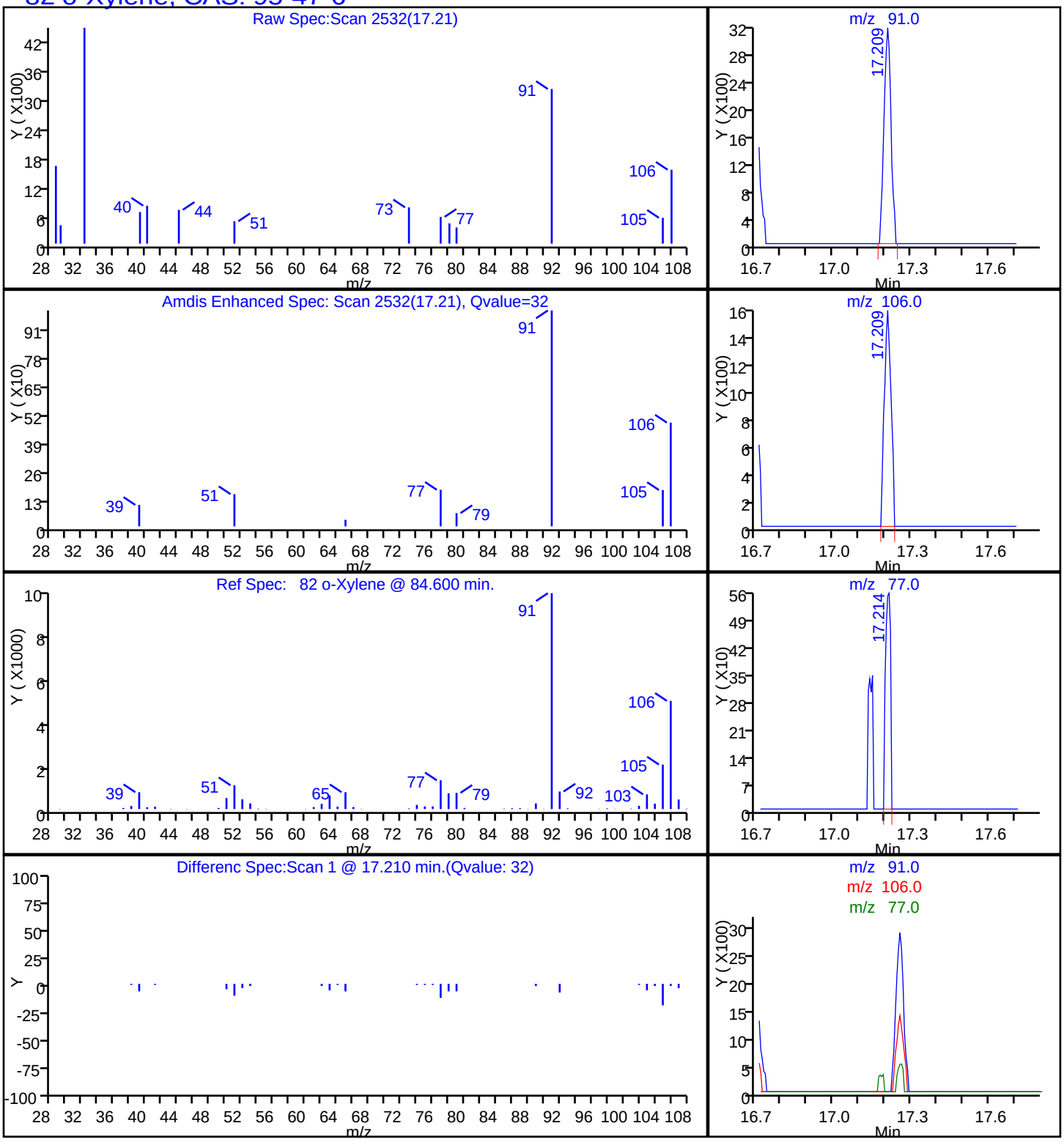
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
Operator ID:	403648	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 20-Mar-2014 12:50:00 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
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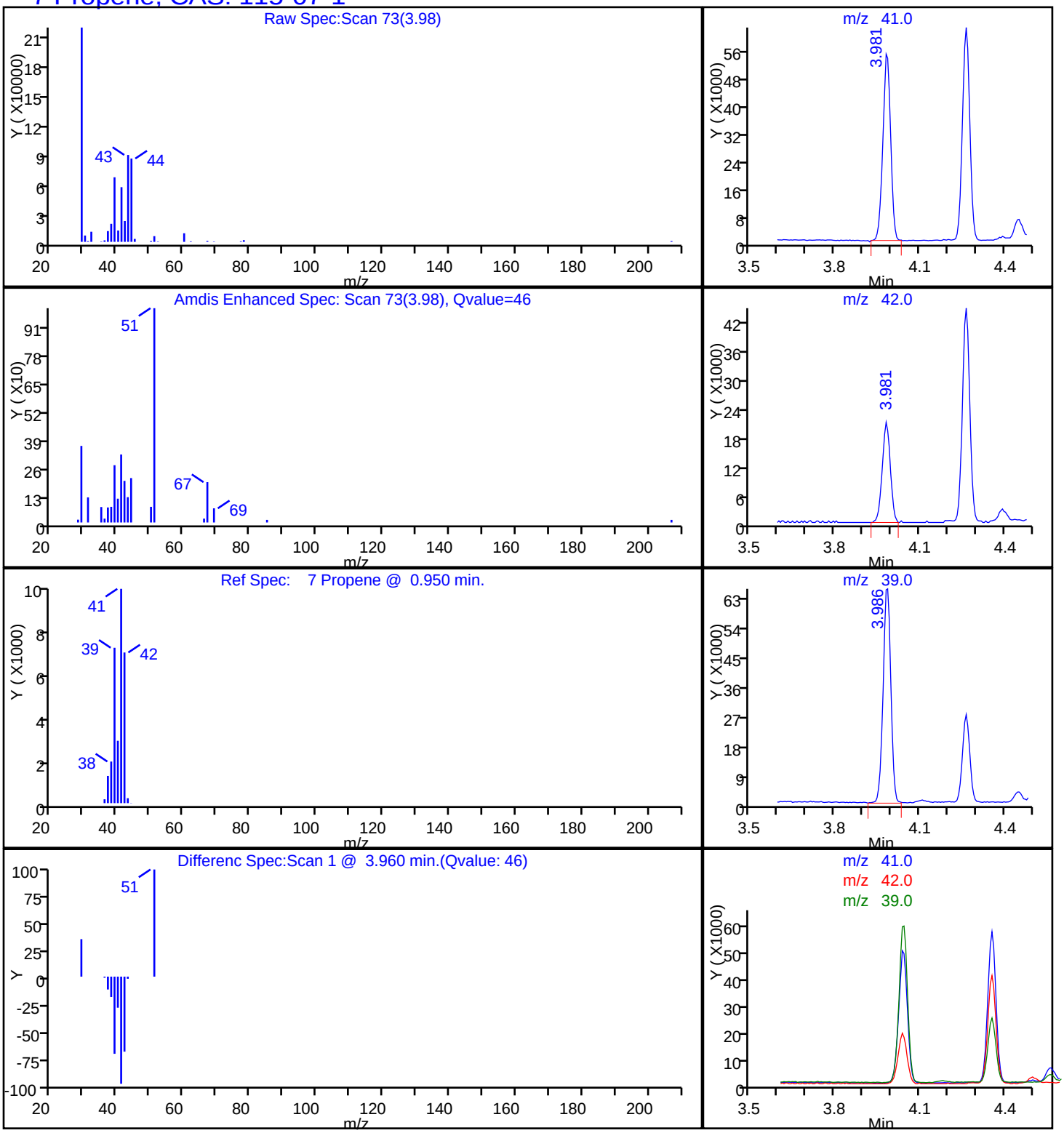
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

7 Propene, CAS: 115-07-1



Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24
Client ID:	IA1FD-E17		
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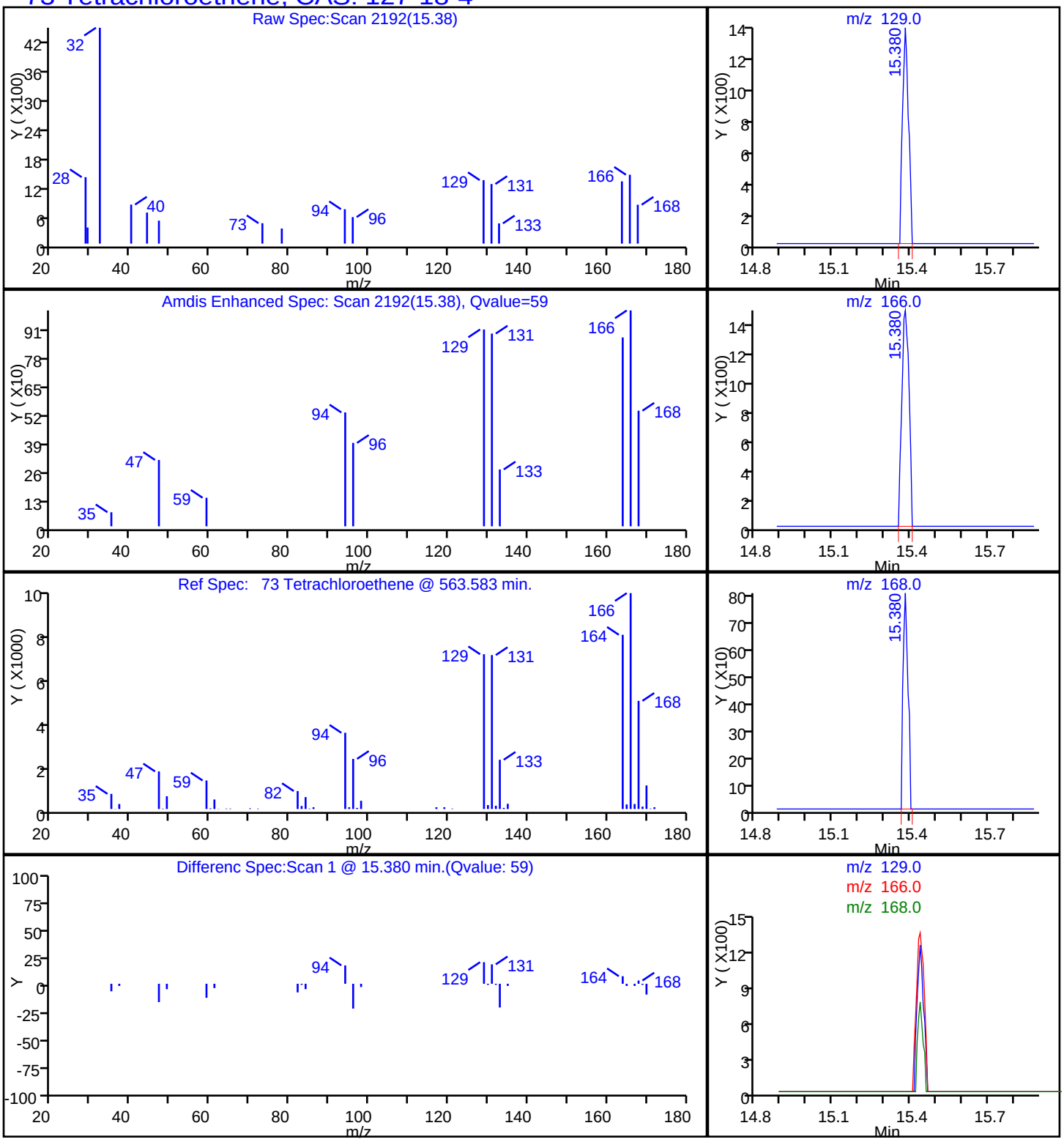
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
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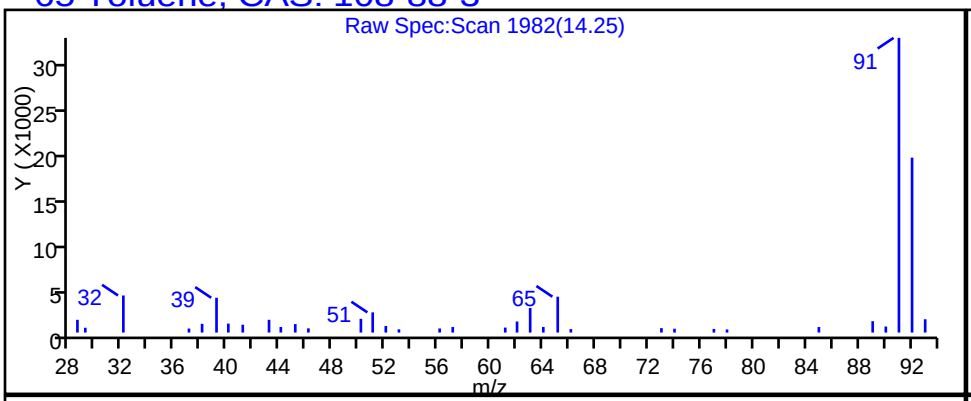
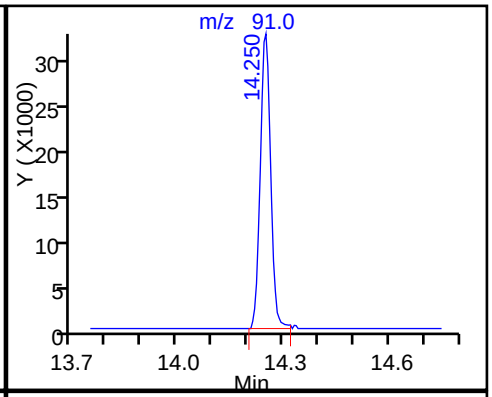
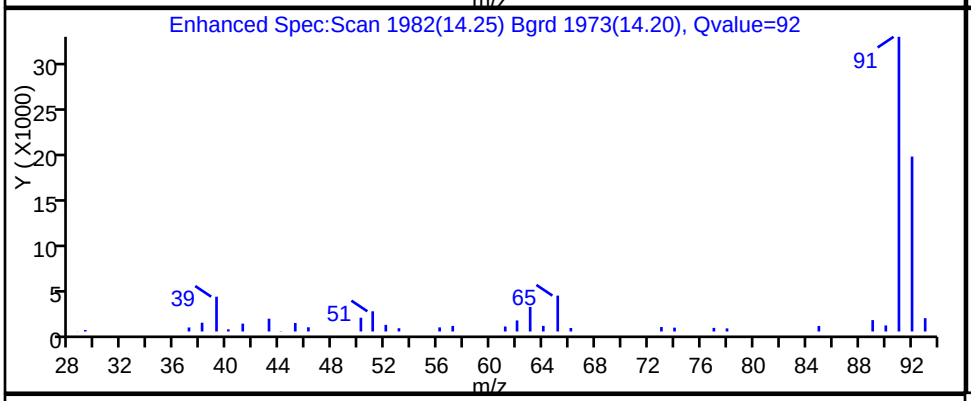
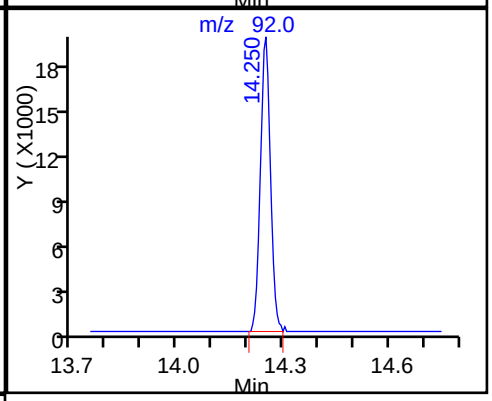
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

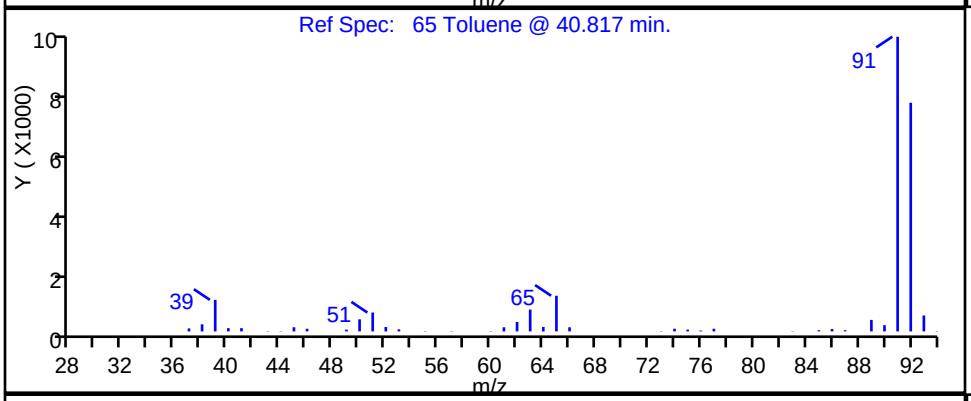
65 Toluene, CAS: 108-88-3

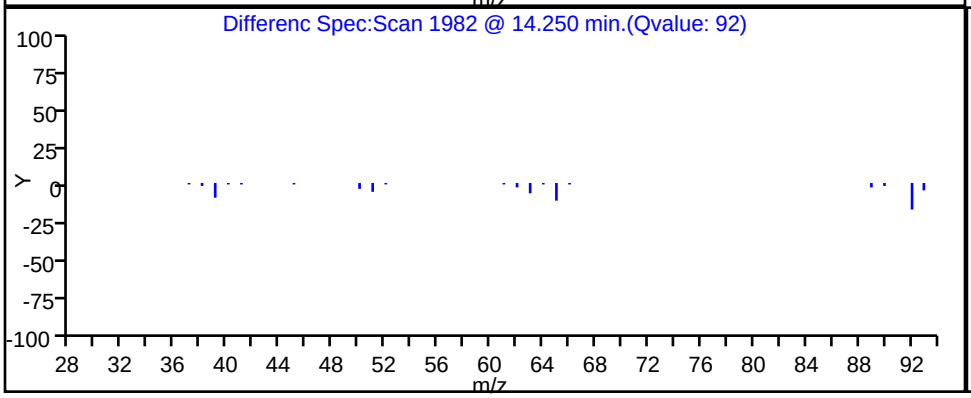


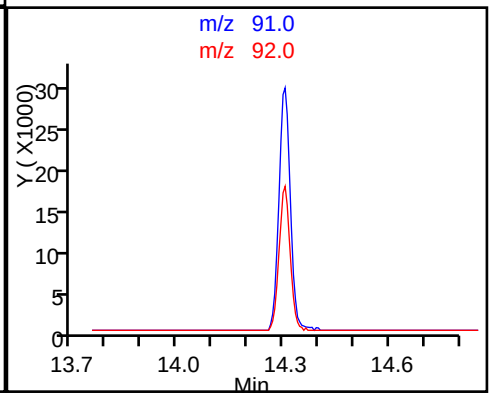












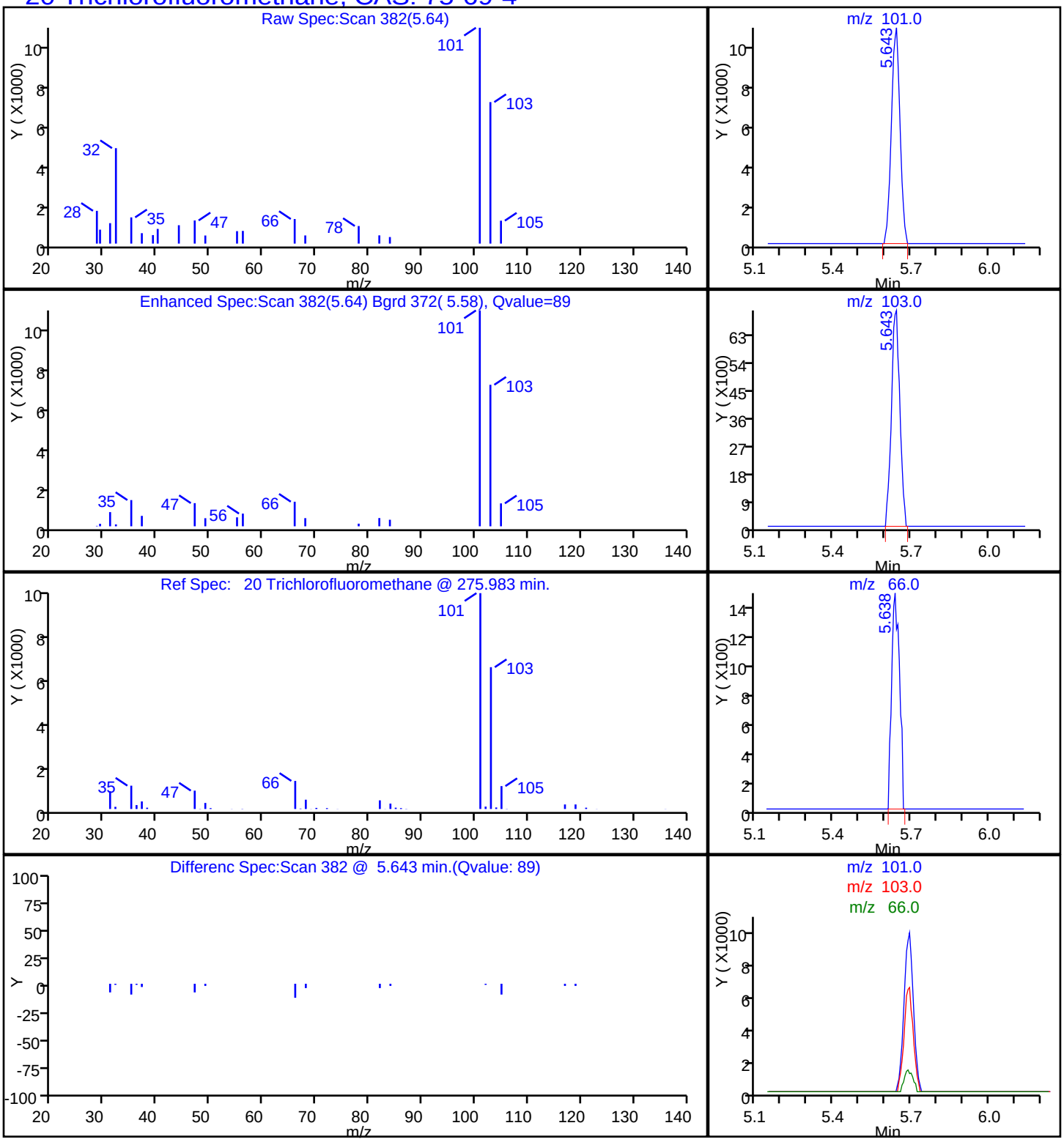
Report Date: 20-Mar-2014 12:50:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date:	20-Mar-2014 00:01:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-24	Lab Sample ID:	140-1063-24		
Client ID:	IA1FD-E17				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

Matrix: Air Lab File ID: JC19P110.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.068	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.58		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.14	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.64		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.31	J	0.50	0.045
67-64-1	Acetone	58.08	7.4		5.0	1.4
71-43-2	Benzene	78.11	0.71		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

Matrix: Air Lab File ID: JC19P110.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.24		0.20	0.038
74-87-3	Chloromethane	50.49	1.2		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	68		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.16	J	0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.22	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.48		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.14	J	0.20	0.061
115-07-1	Propene	42.08	3.8	cn	0.50	0.077
100-42-5	Styrene	104.15	0.10	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.044	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.6		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

Matrix: Air Lab File ID: JC19P110.D

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Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

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Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	1.3		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.82	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.2		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	18		12	3.3
71-43-2	Benzene	78.11	2.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

Matrix: Air Lab File ID: JC19P110.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.2		0.98	0.19
74-87-3	Chloromethane	50.49	2.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	130		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.70	J	0.87	0.30
142-82-5	Heptane	100.21	0.44	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.59	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.78	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.59	J	0.87	0.26
115-07-1	Propene	42.08	6.6	cn	0.86	0.13
100-42-5	Styrene	104.15	0.43	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.30	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25

Matrix: Air Lab File ID: JC19P110.D

Analysis Method: TO-15 Date Collected: 03/13/2014 16:10

Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D
Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25
Client ID: IA2-E17
Sample Type: Client
Inject. Date: 20-Mar-2014 01:49:30 ALS Bottle#: 10 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-1063-a-25
Misc. Info.: J031914,TO15,,140-0000532-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Mar-2014 12:49:12 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 12:49:12

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	90	361048	4.00	
*	2 1,4-Difluorobenzene	114	11.533	11.542	-0.009	94	1756353	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.192	16.201	-0.009	87	1478544	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	92	990341	3.79	
	7 Propene	41	3.975	3.973	0.002	98	168649	1.52	
	8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	62384	0.1744	
	9 Chloromethane	52	4.228	4.231	-0.003	100	19822	0.4879	
	14 Butadiene	54	4.513	4.516	-0.003	29	21404	0.2301	
	17 Ethanol	31	5.116	5.119	-0.003	95	787396	27.2	
	19 2-Methylbutane	43	5.406	5.409	-0.003	90	38997	0.2543	
	20 Trichlorofluoromethane	101	5.638	5.646	-0.008	87	25570	0.0814	
	23 Acetone	58	5.761	5.770	-0.009	90	152510	2.97	
	24 Isopropyl alcohol	45	5.847	5.850	-0.003	97	275635	2.03	
	30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.574	6.582	-0.008	60	6028	0.0277	
	31 Methylene Chloride	84	6.751	6.754	-0.003	85	8626	0.0893	
	39 2-Butanone (MEK)	72	8.591	8.589	0.002	100	14749	0.4316	
	40 Hexane	56	8.628	8.637	-0.009	63	6550	0.0675	
	43 Chloroform	83	9.387	9.396	-0.009	50	20267	0.0963	
	48 Benzene	78	11.017	11.026	-0.009	96	85446	0.2835	
	50 Carbon tetrachloride	117	11.038	11.047	-0.009	86	7004	0.0281	
	54 n-Heptane	71	12.120	12.123	-0.003	77	4575	0.0429	
	62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.371	0.002	86	22462	0.1220	
	65 Toluene	91	14.250	14.253	-0.003	93	172691	0.6296	
	73 Tetrachloroethene	129	15.374	15.383	-0.009	66	2272	0.0178	
	76 Ethylbenzene	91	16.526	16.529	-0.003	76	19594	0.0647	
	78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	99	47187	0.1930	
	80 Styrene	104	17.144	17.147	-0.003	71	6775	0.0404	
	82 o-Xylene	91	17.203	17.212	-0.009	76	13552	0.0547	
	93 1,2,4-Trimethylbenzene	105	18.936	18.939	-0.003	61	7859	0.0274	
	97 1,4-Dichlorobenzene	146	19.291	19.294	-0.003	82	9598	0.0546	

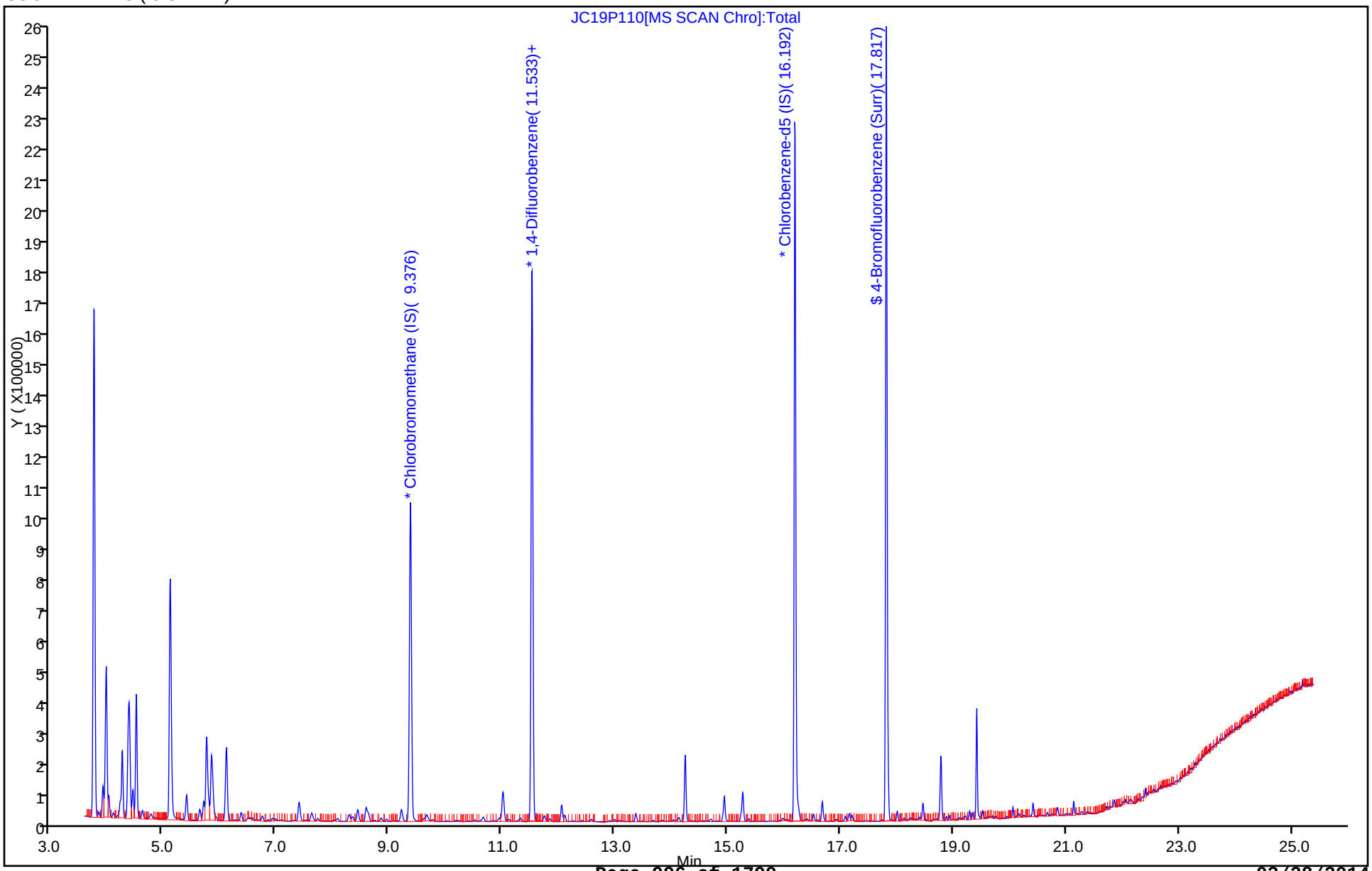
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25	Worklist Smp#:	17
Client ID:	IA2-E17				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



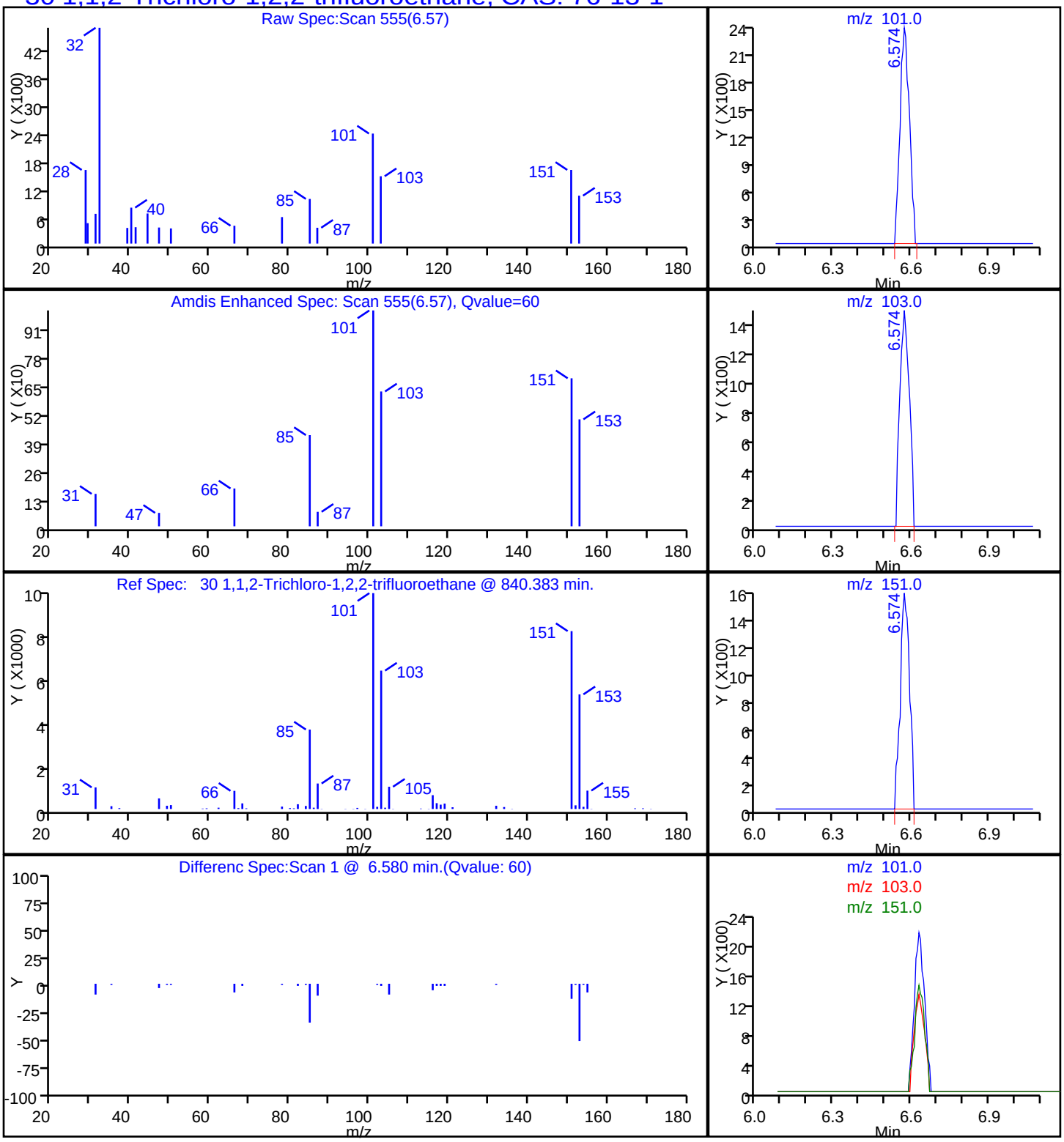
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



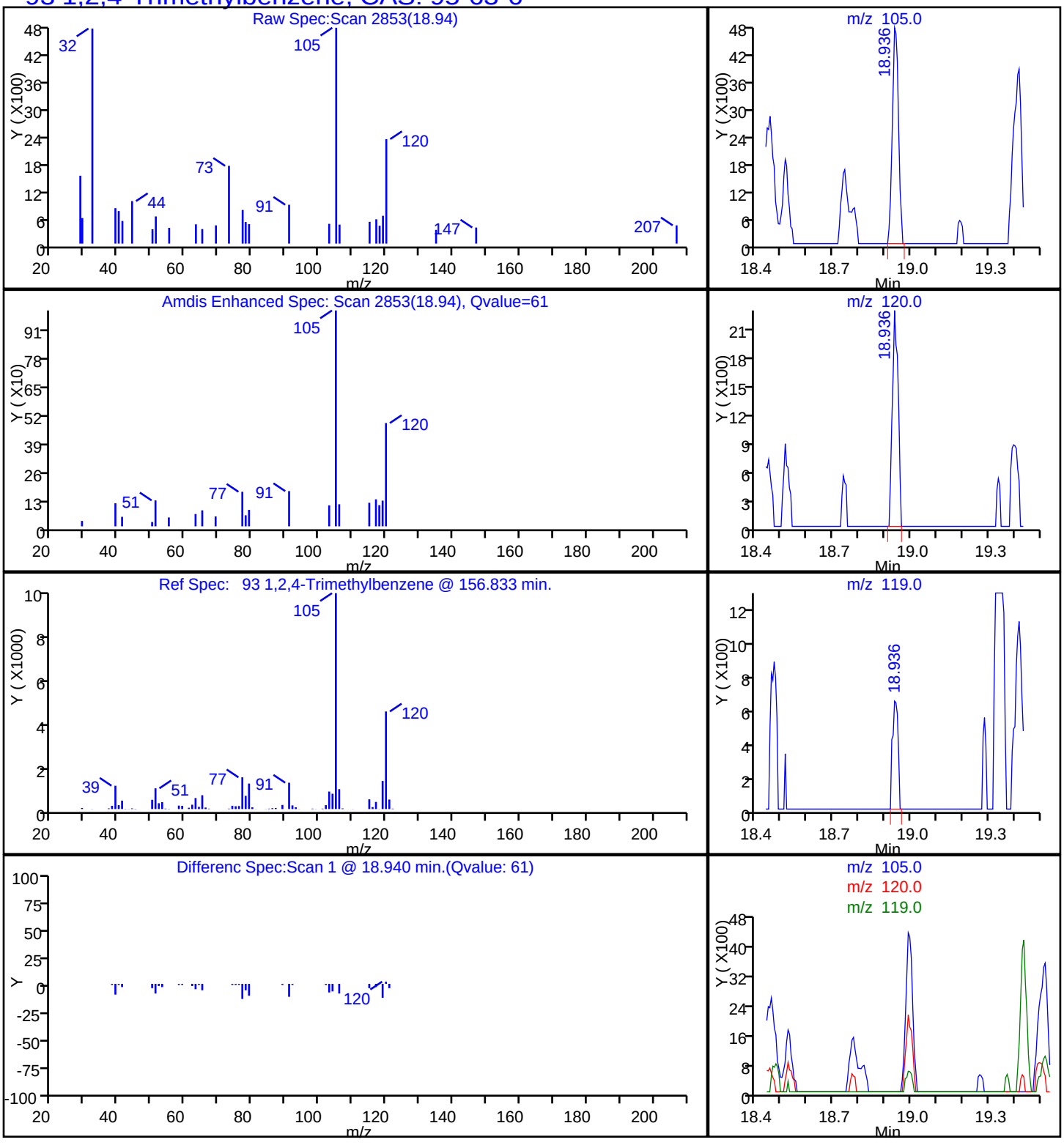
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



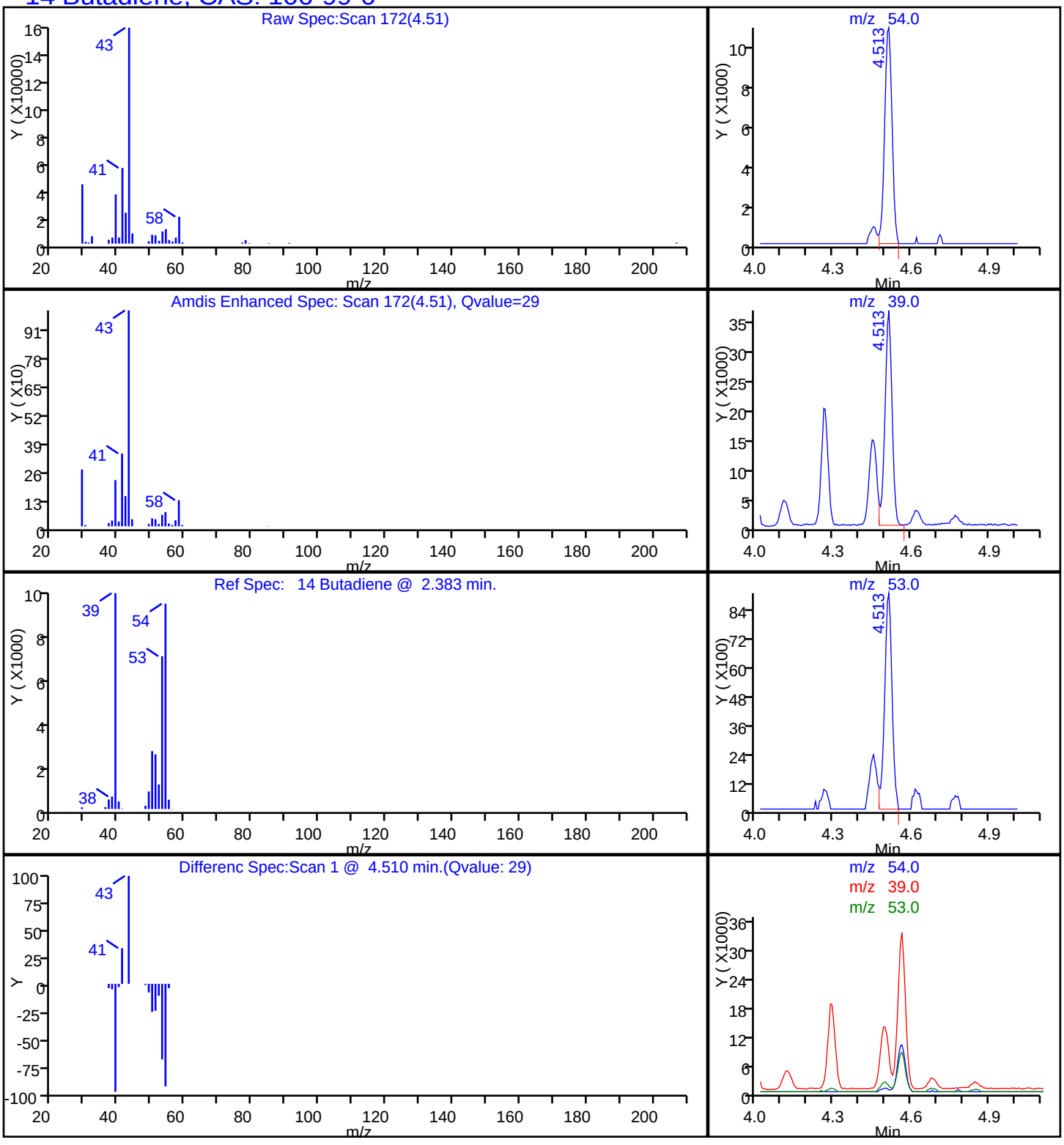
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butadiene, CAS: 106-99-0



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

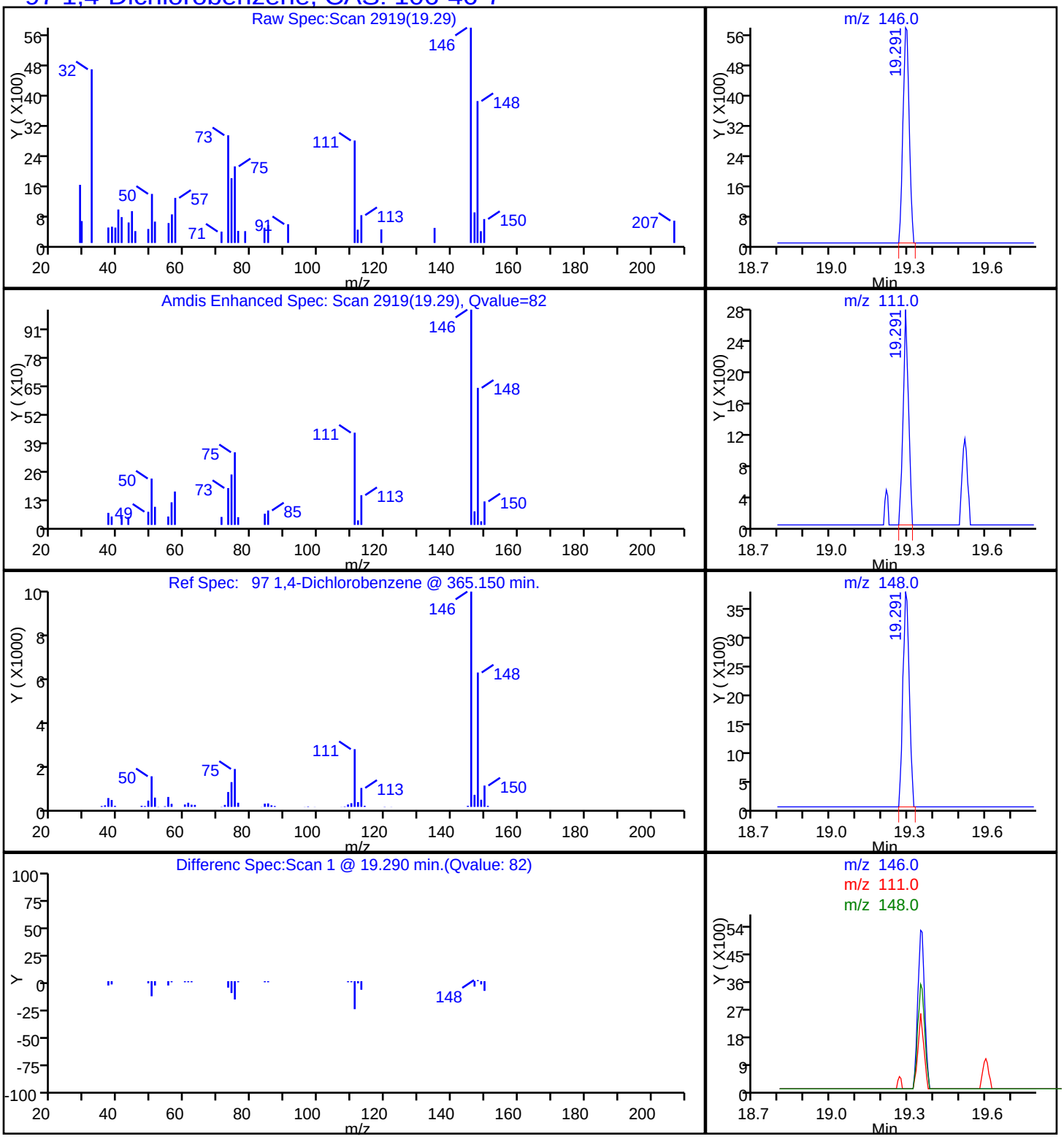
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



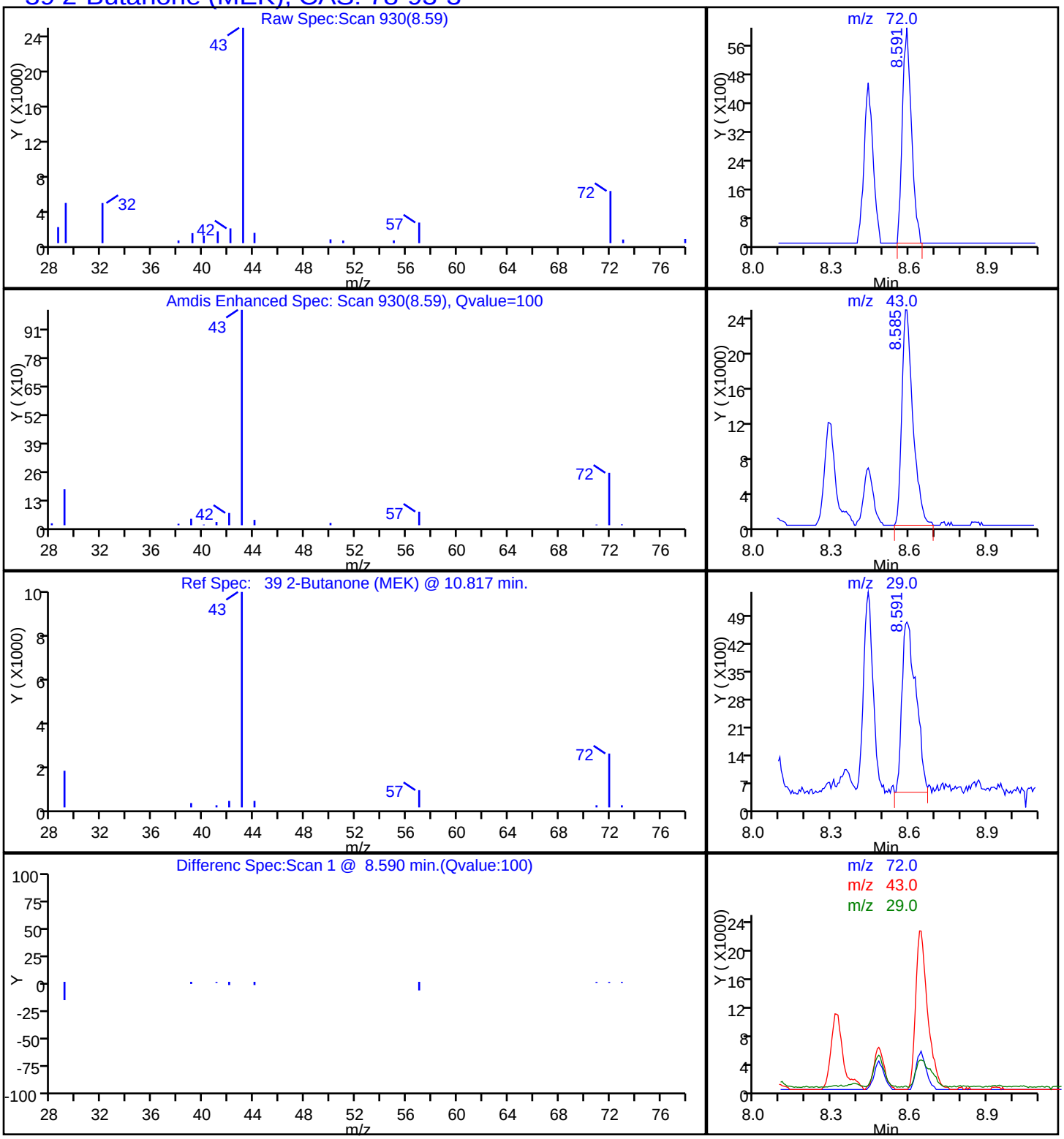
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25
Client ID:	IA2-E17		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

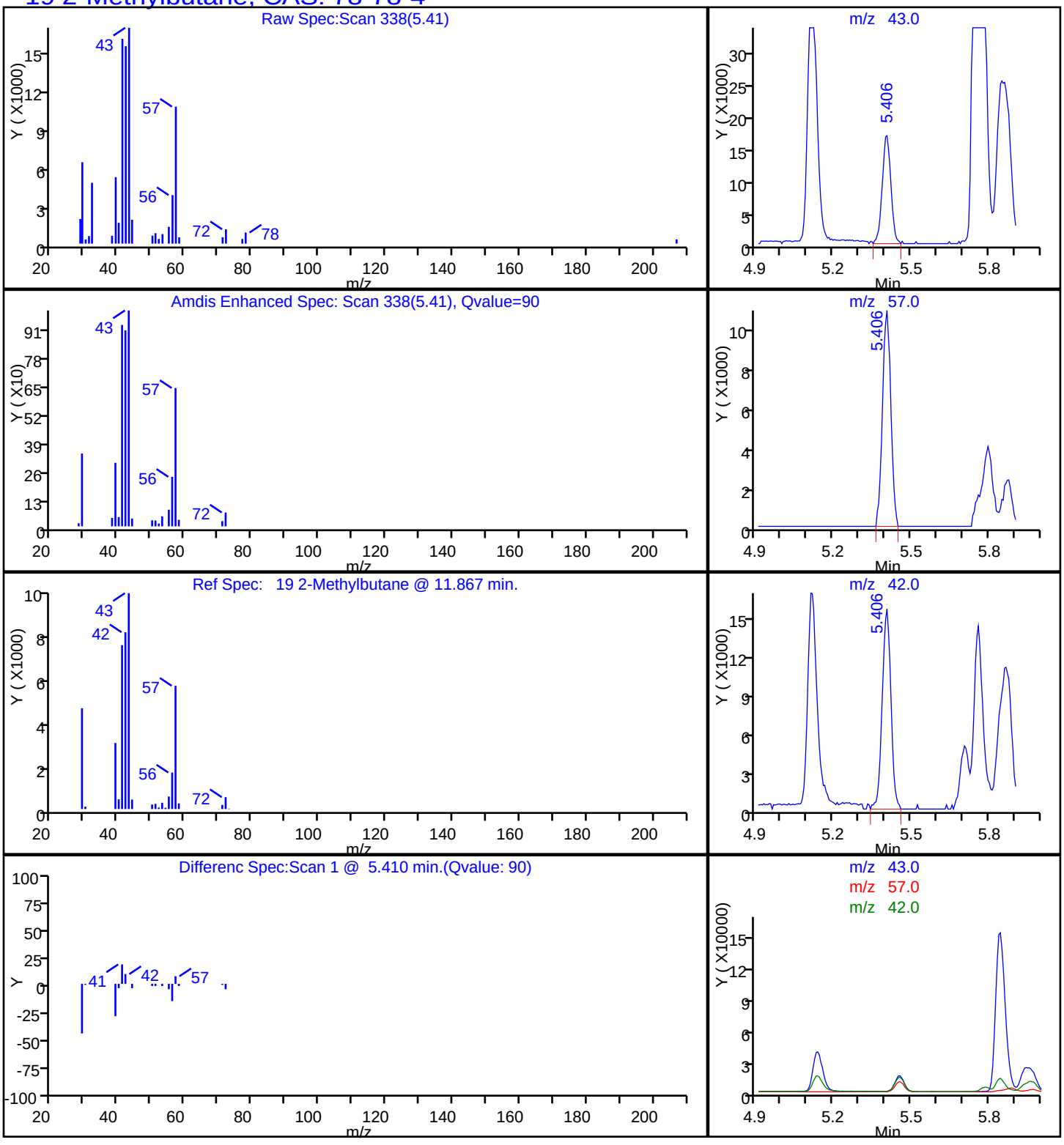
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

19 2-Methylbutane, CAS: 78-78-4



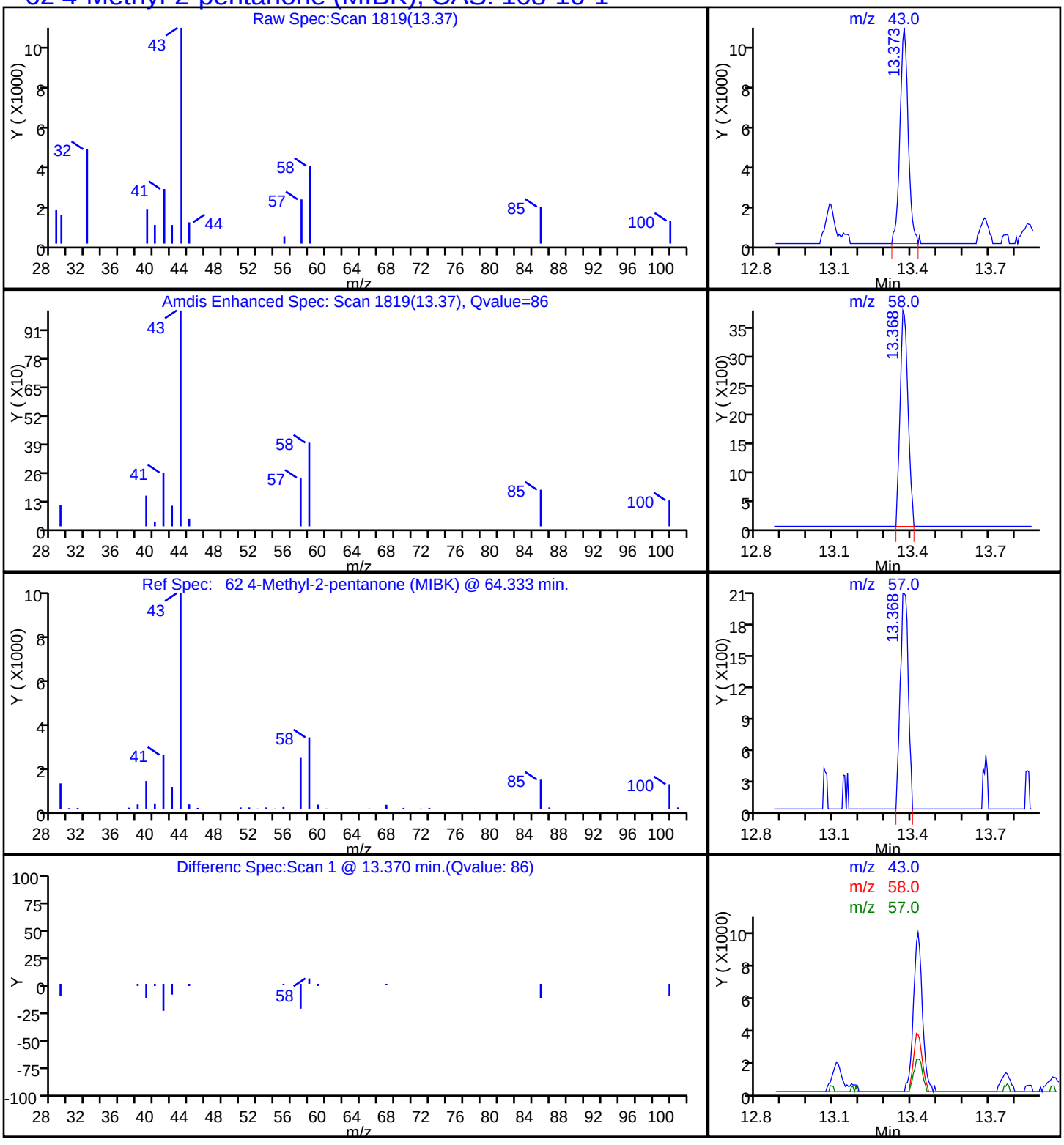
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

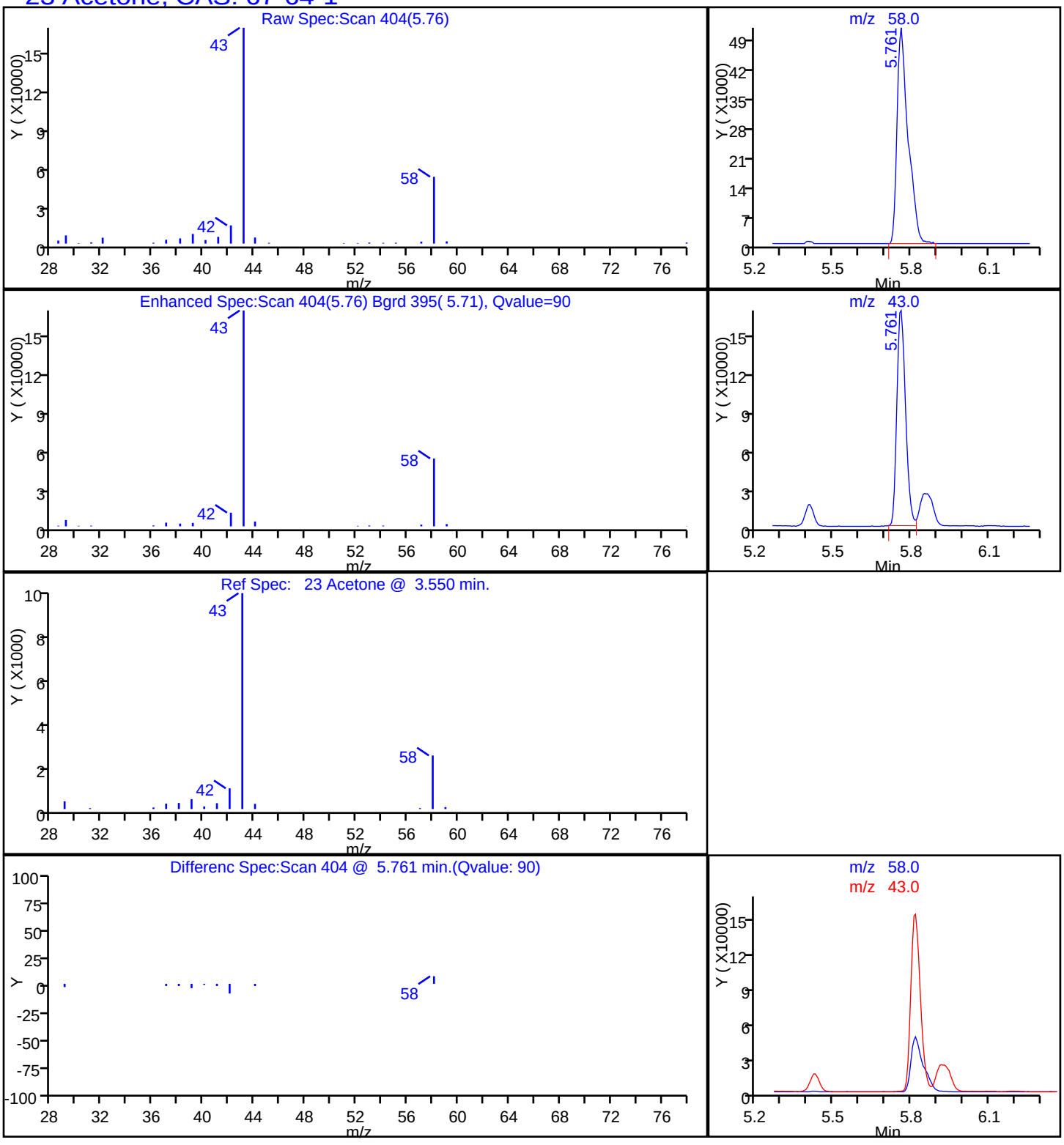
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



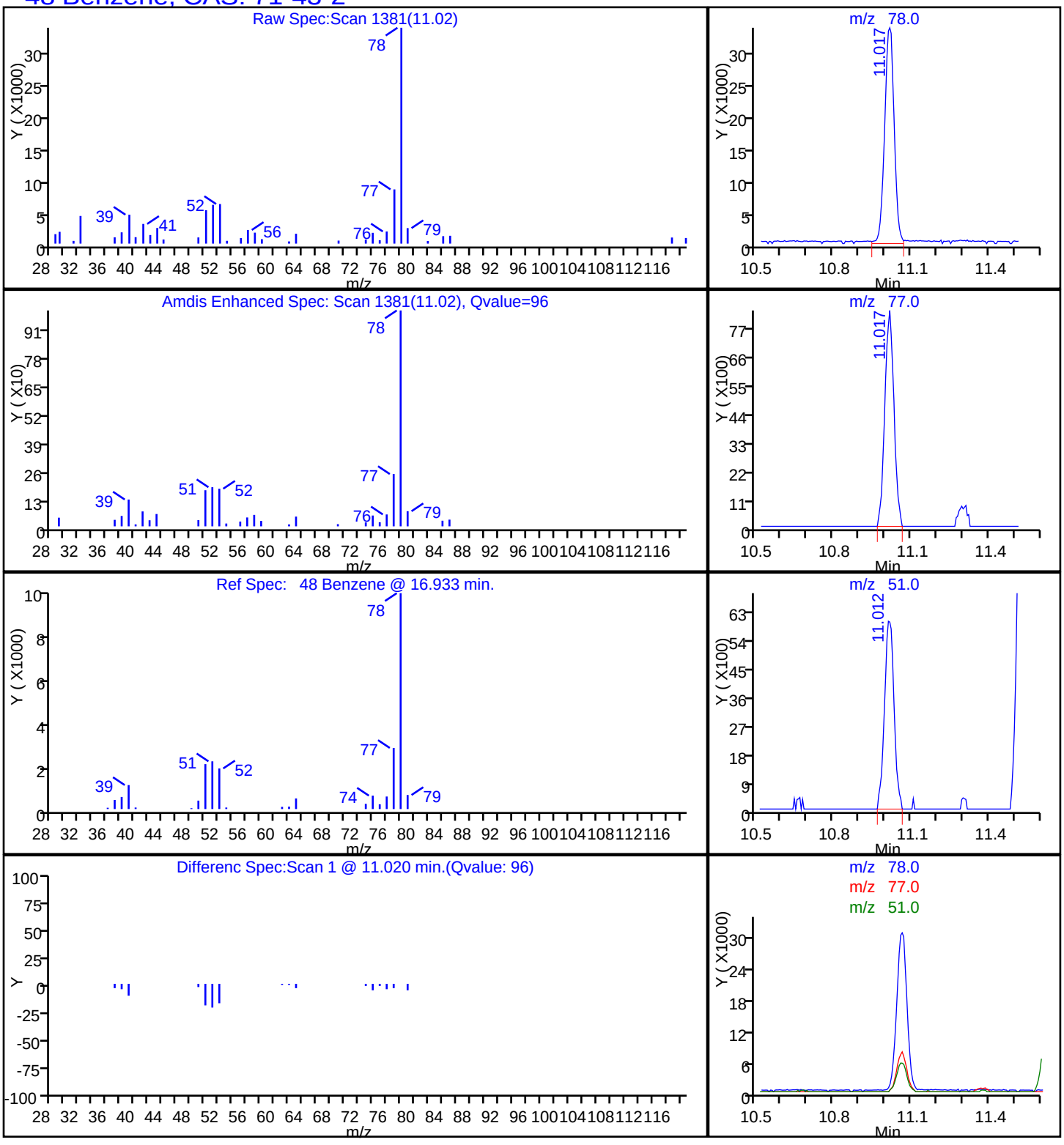
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25
Client ID:	IA2-E17		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

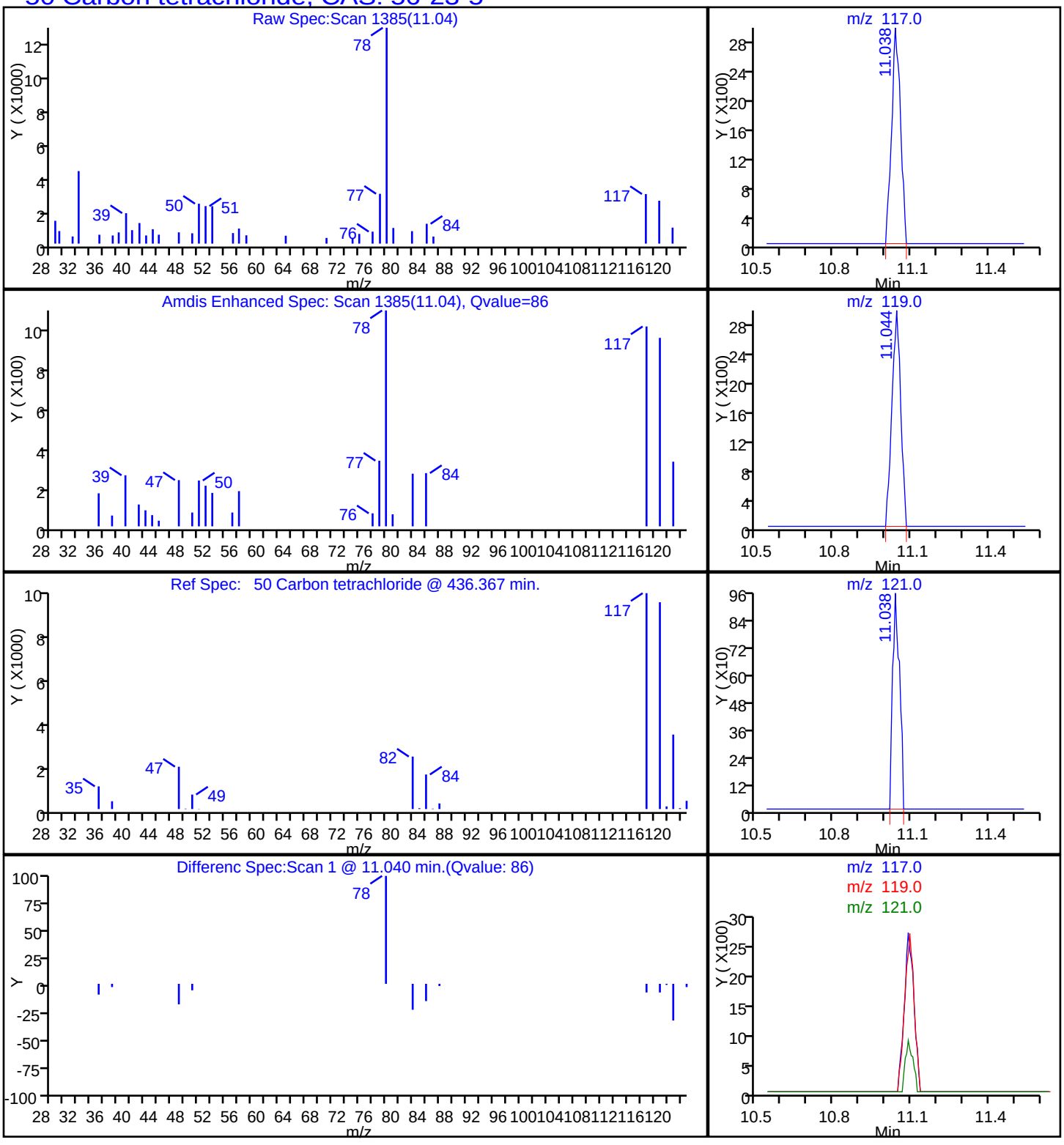
48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D				
Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

50 Carbon tetrachloride, CAS: 56-23-5



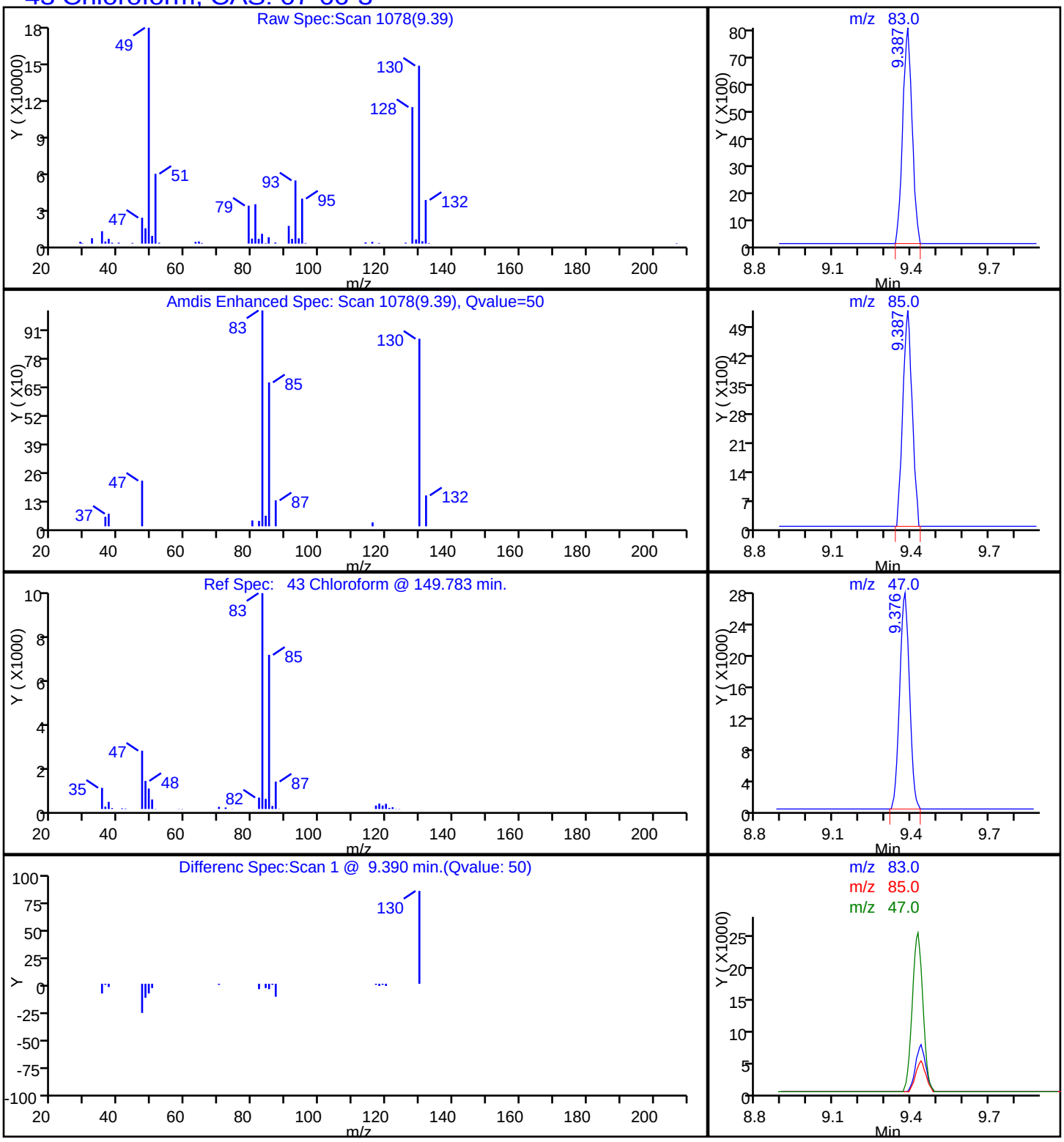
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



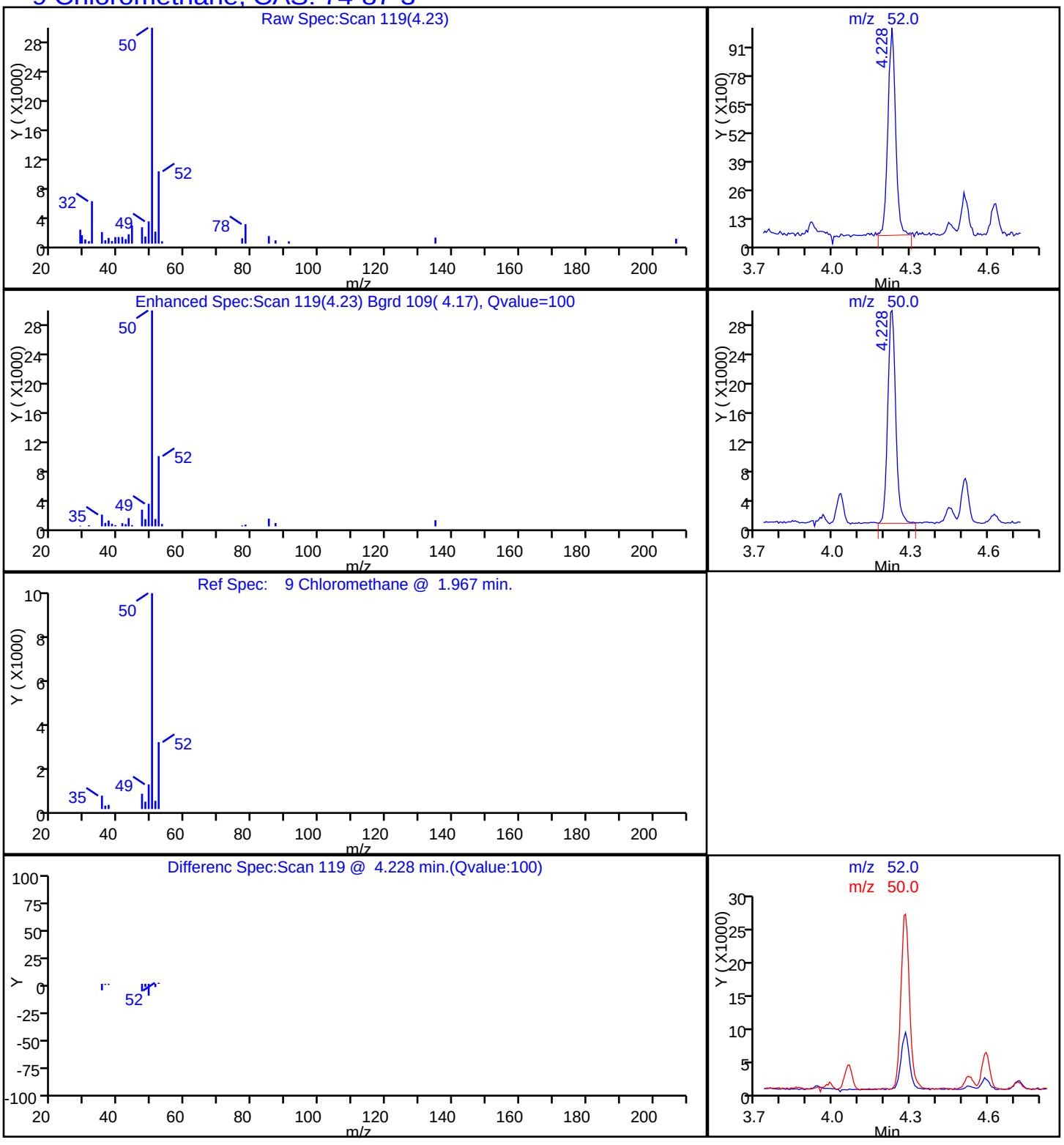
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

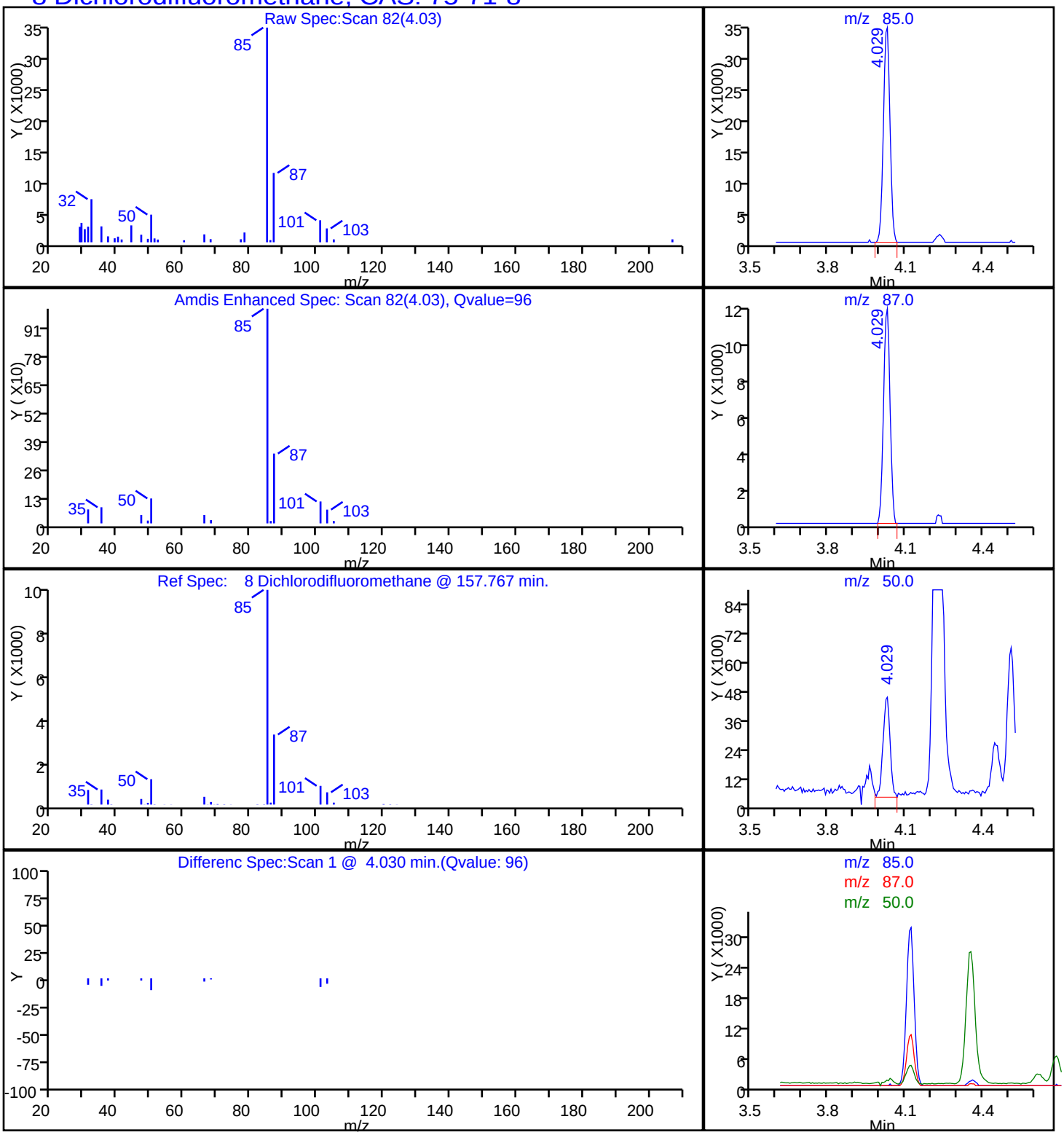
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



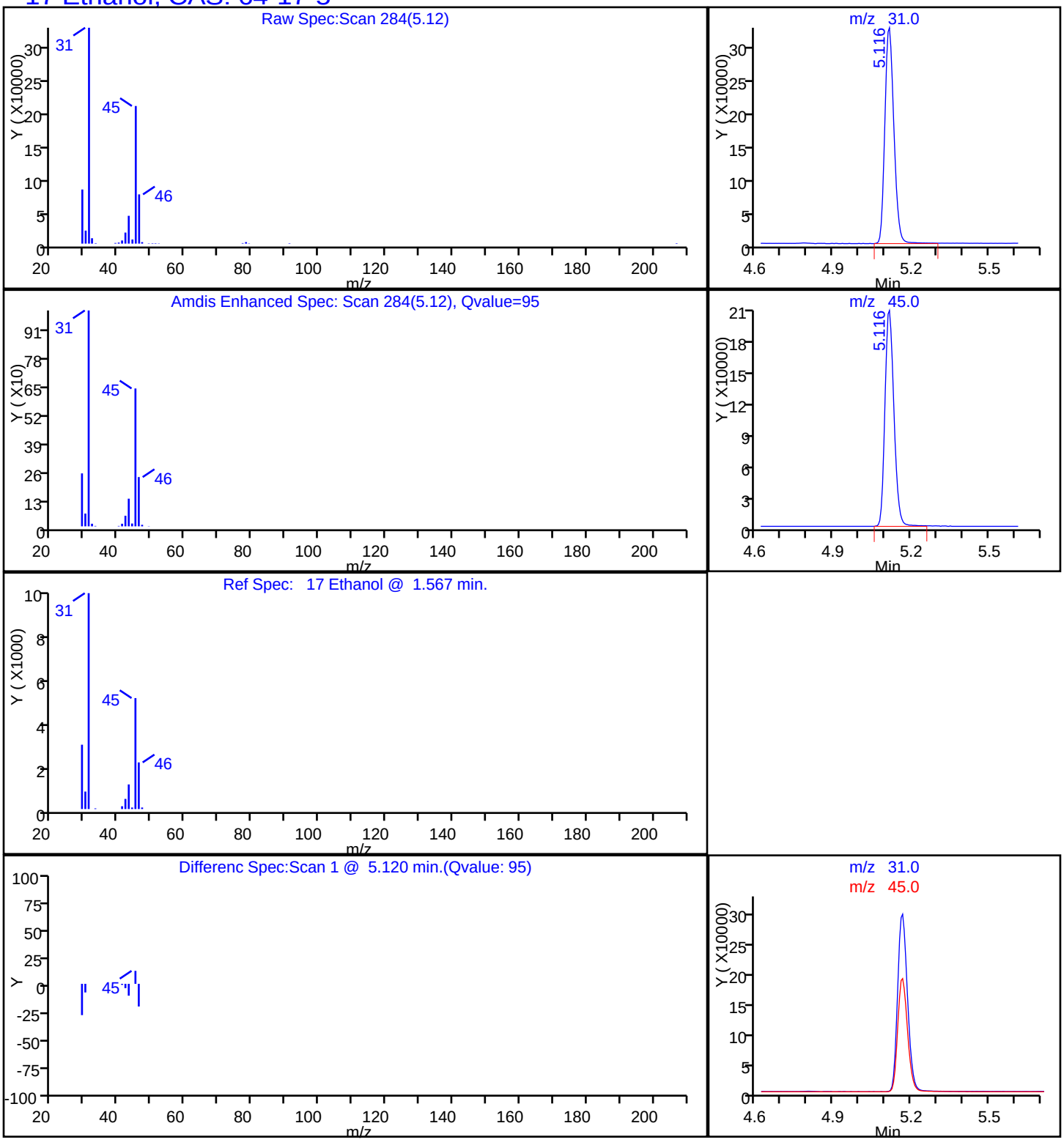
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25
Client ID:	IA2-E17		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

17 Ethanol, CAS: 64-17-5



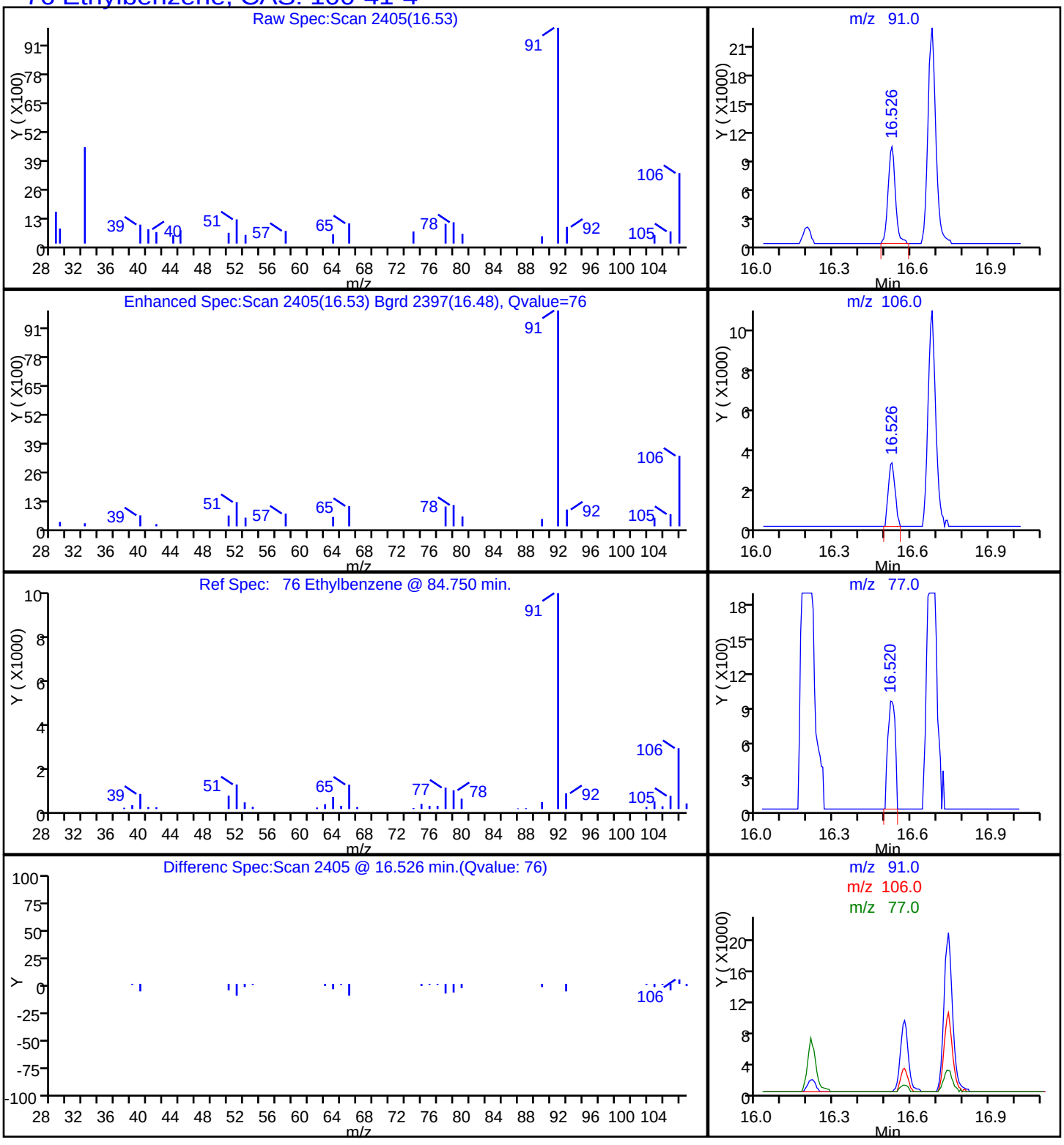
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4



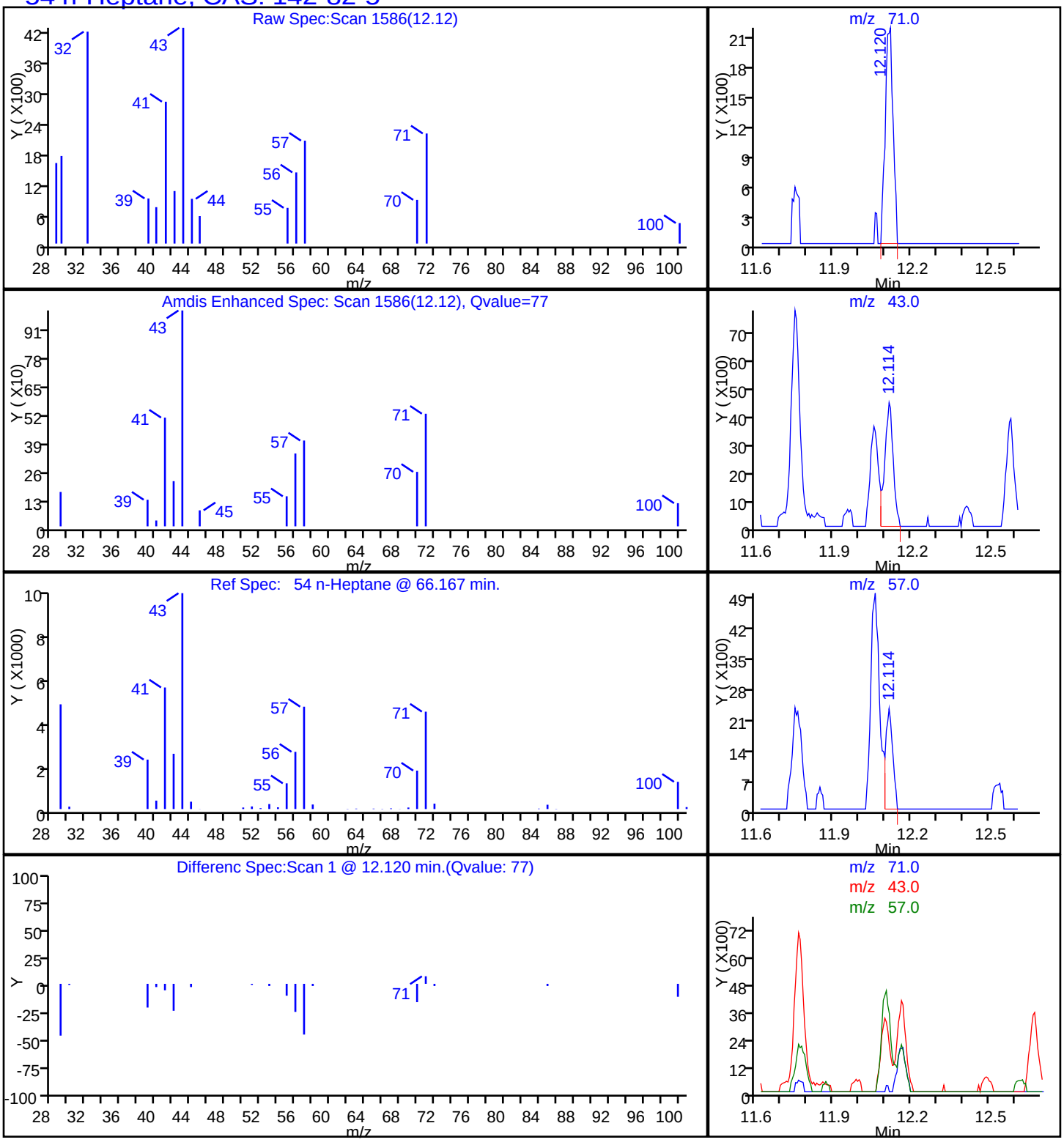
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25
Client ID:	IA2-E17		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

54 n-Heptane, CAS: 142-82-5



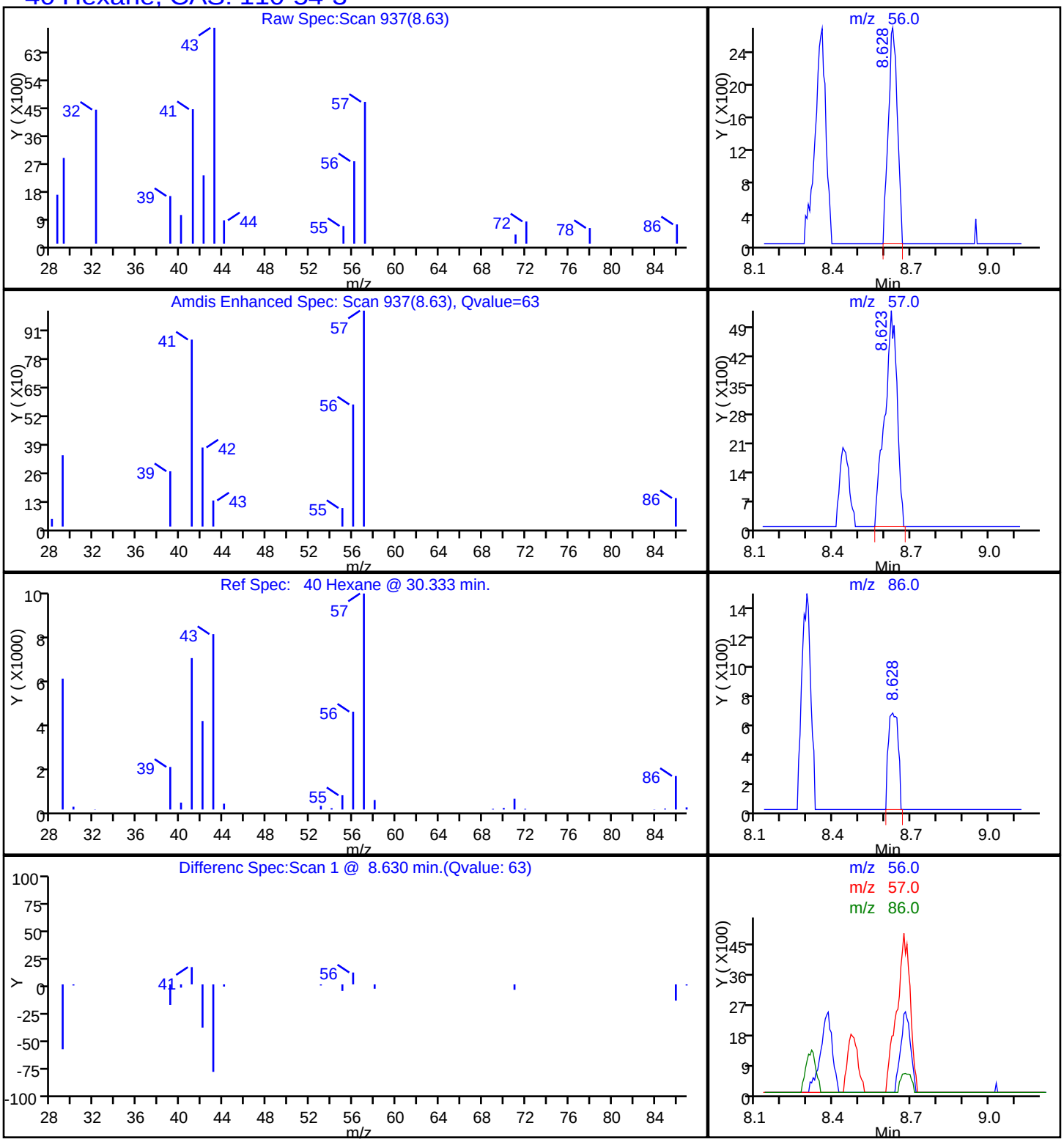
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

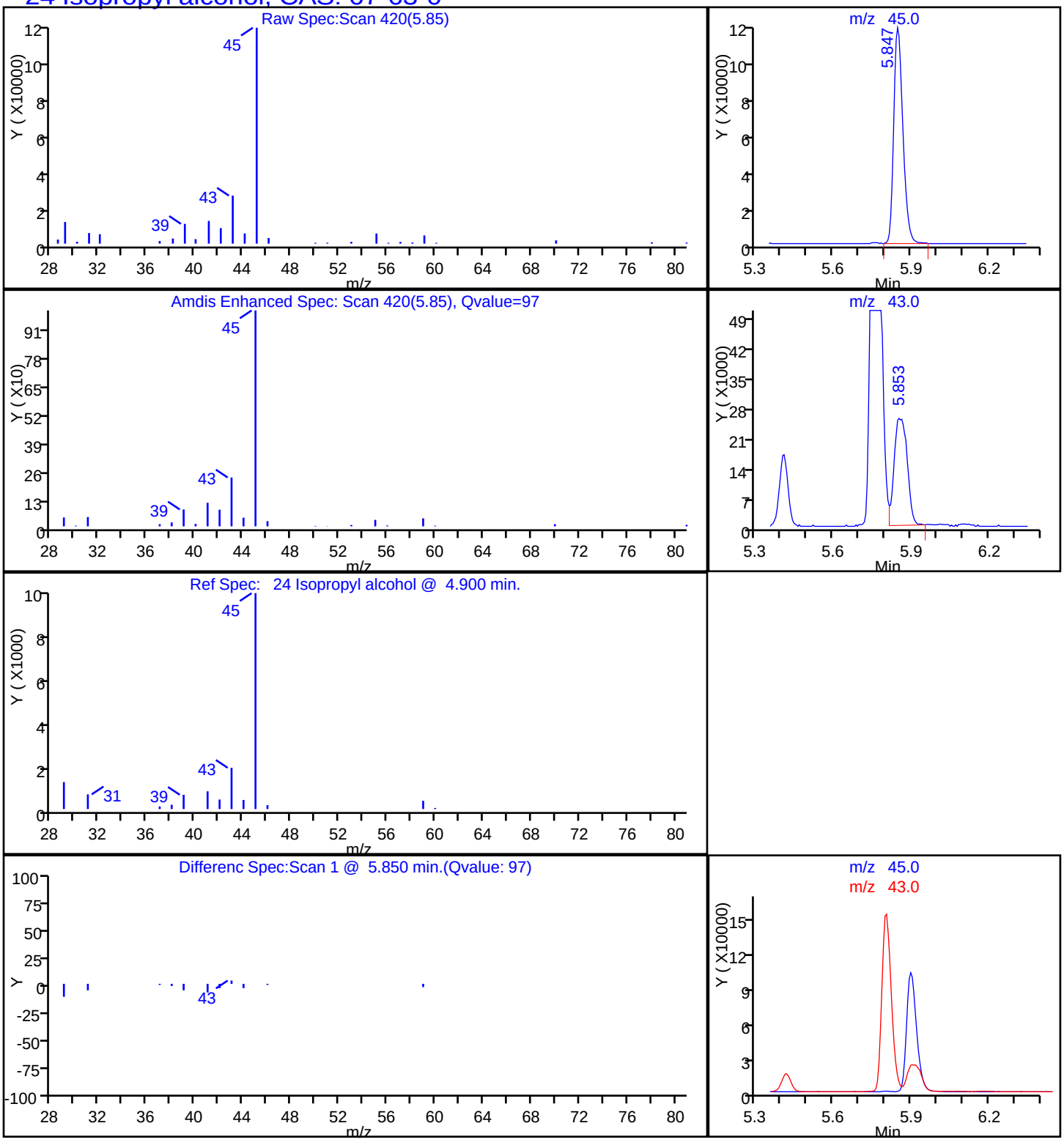
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

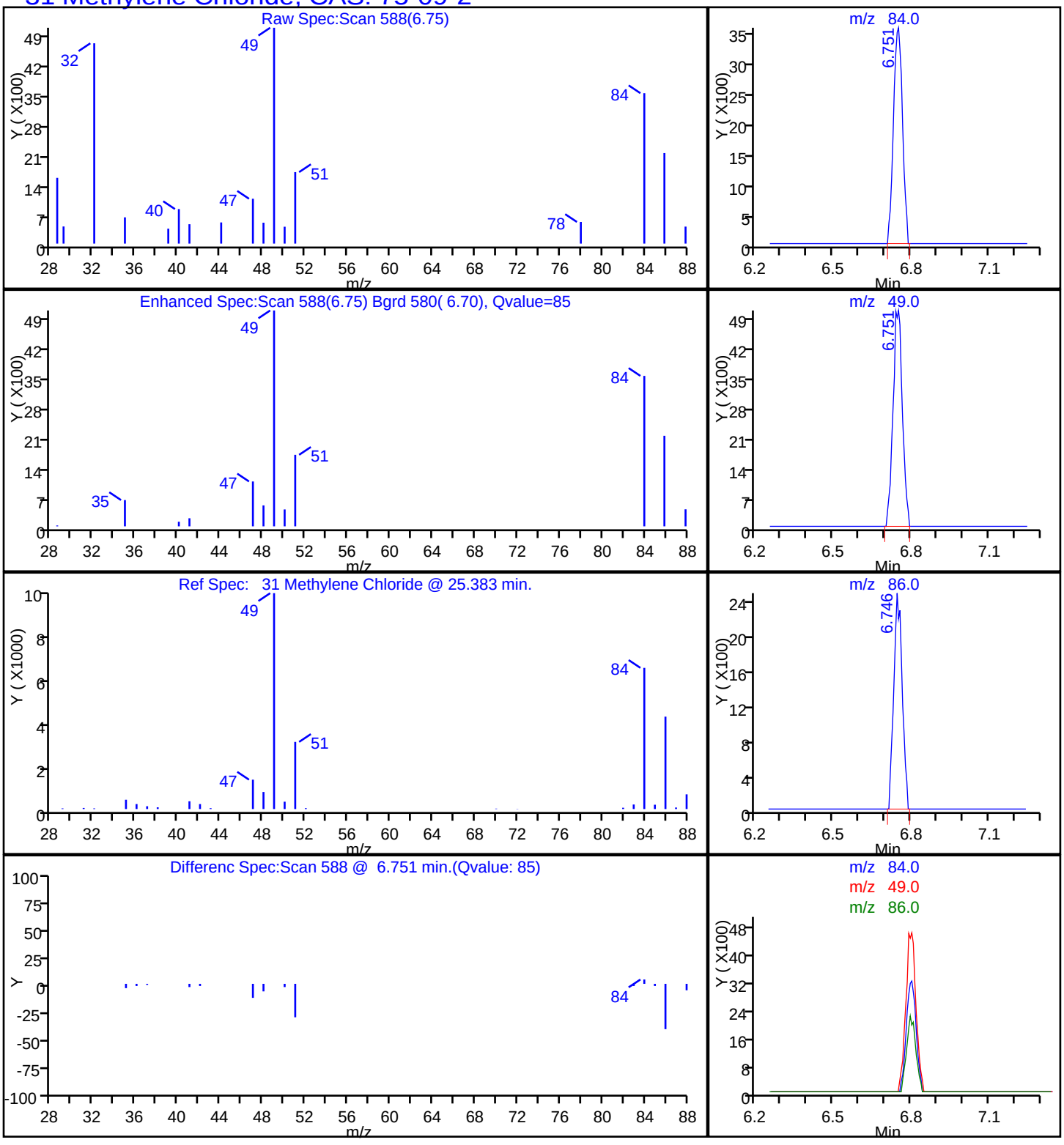
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2



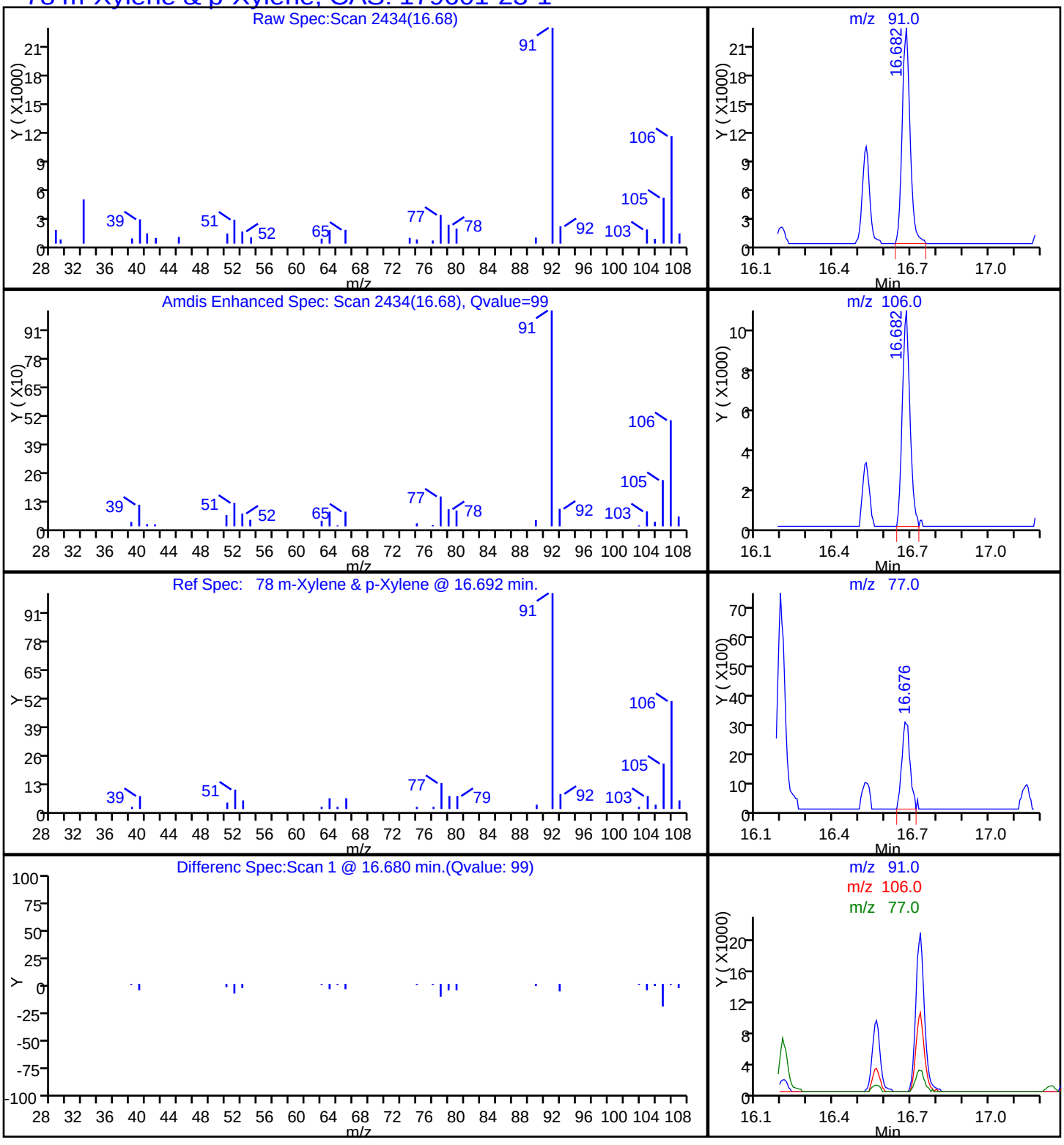
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 m-Xylene & p-Xylene, CAS: 179601-23-1



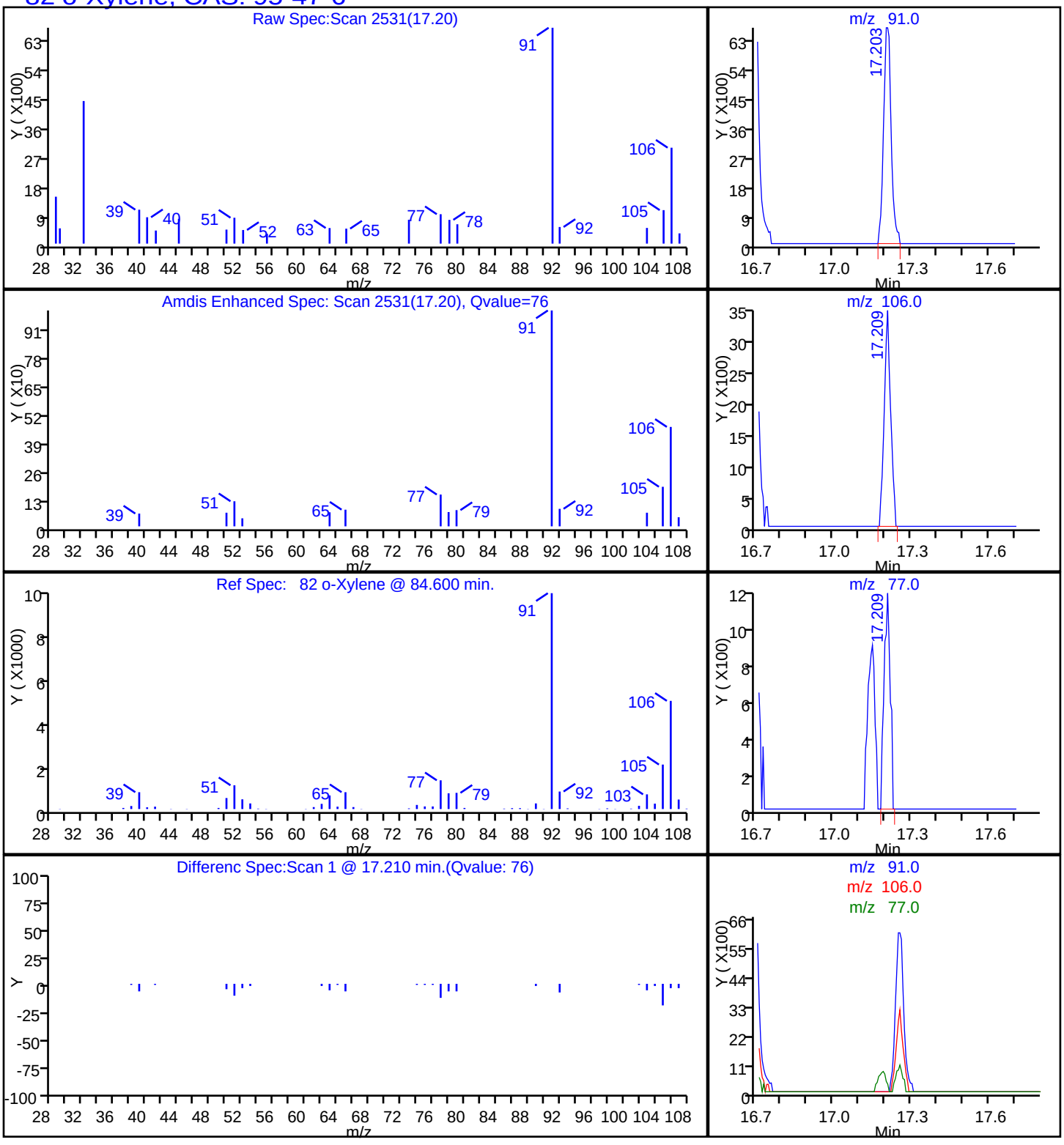
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25
Client ID:	IA2-E17		
Operator ID:	403648	ALS Bottle#:	10 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

82 o-Xylene, CAS: 95-47-6



Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30 Instrument ID: MJ

Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25

Client ID: IA2-E17

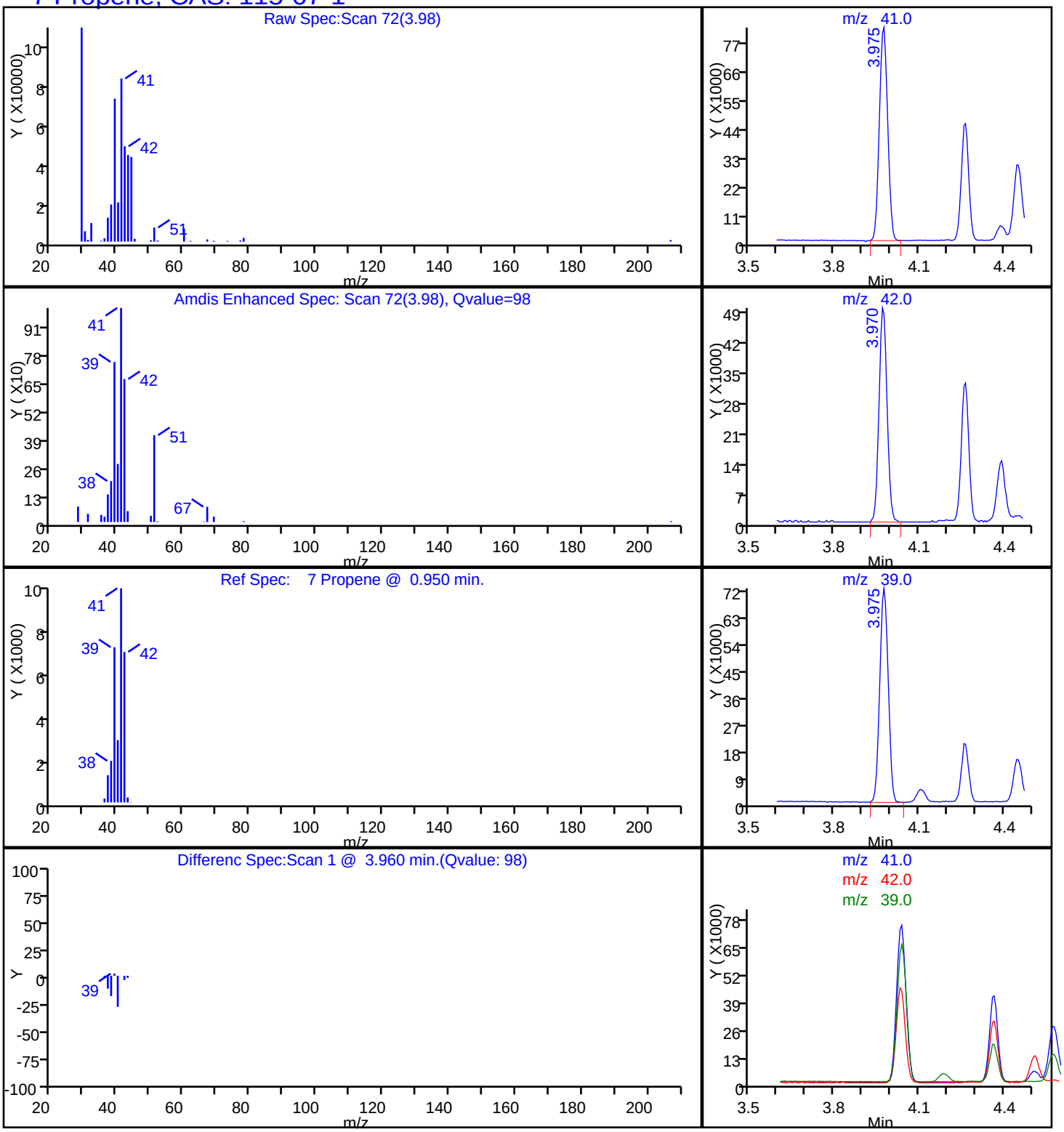
Operator ID: 403648 ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1



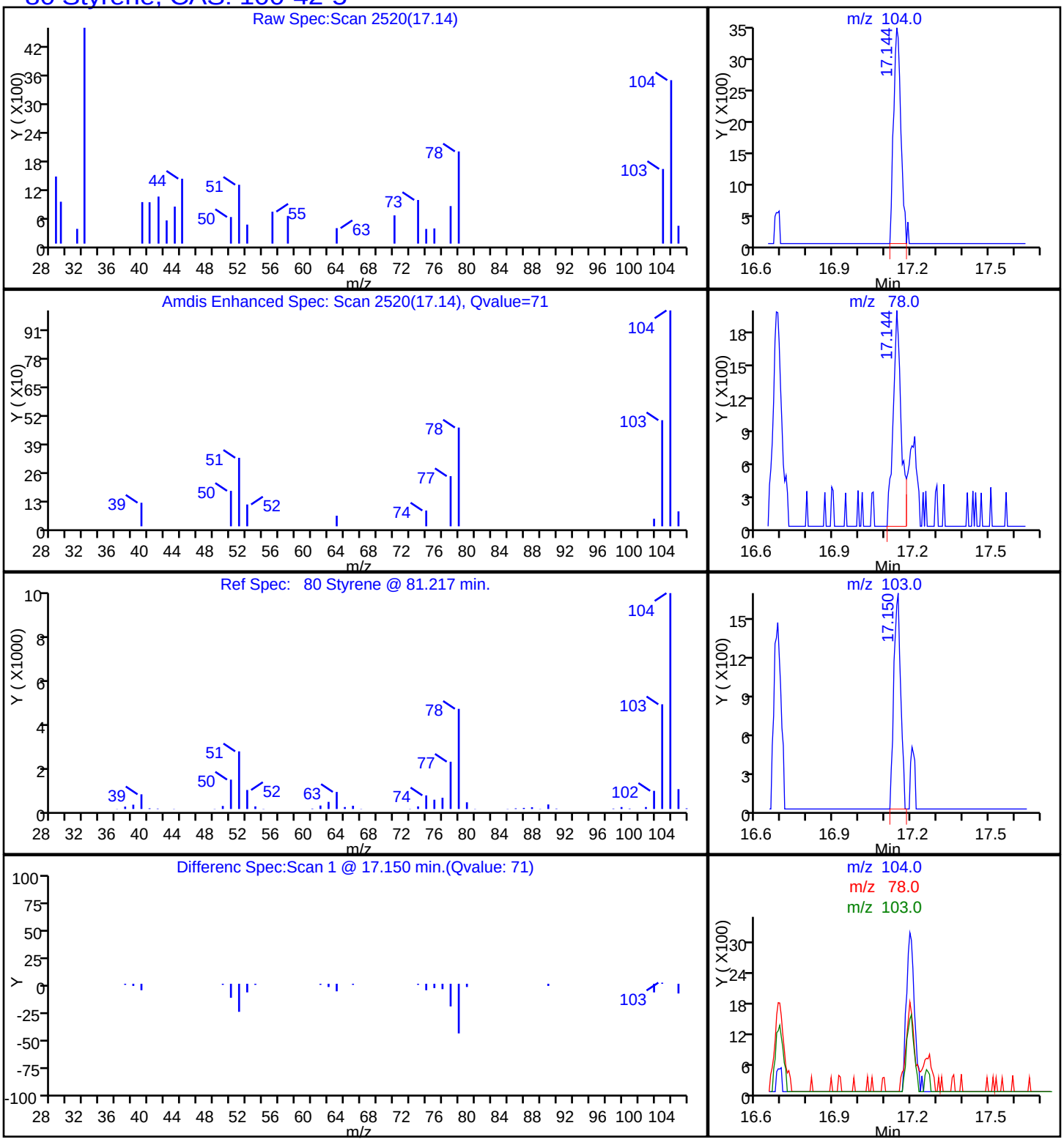
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5



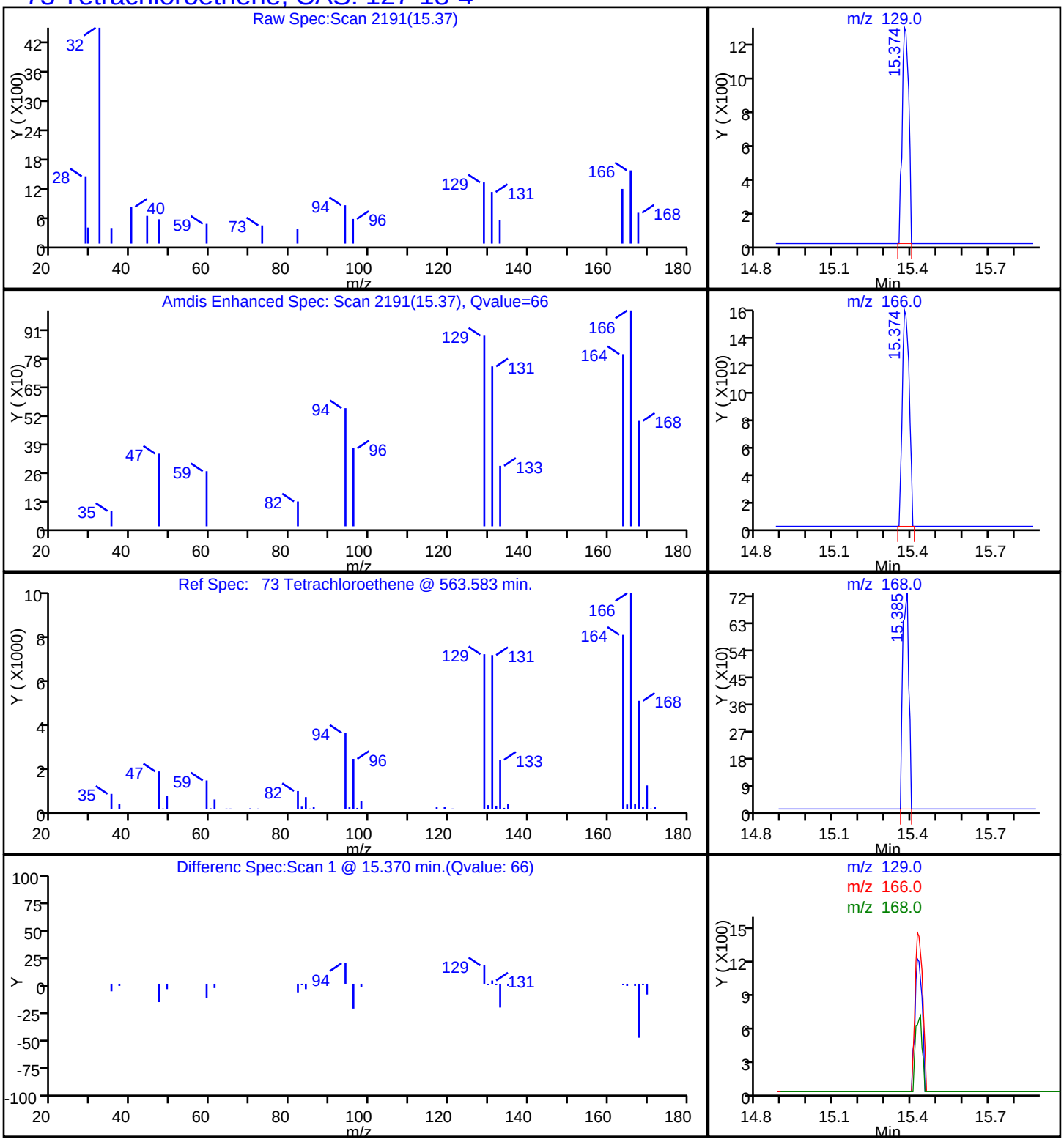
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



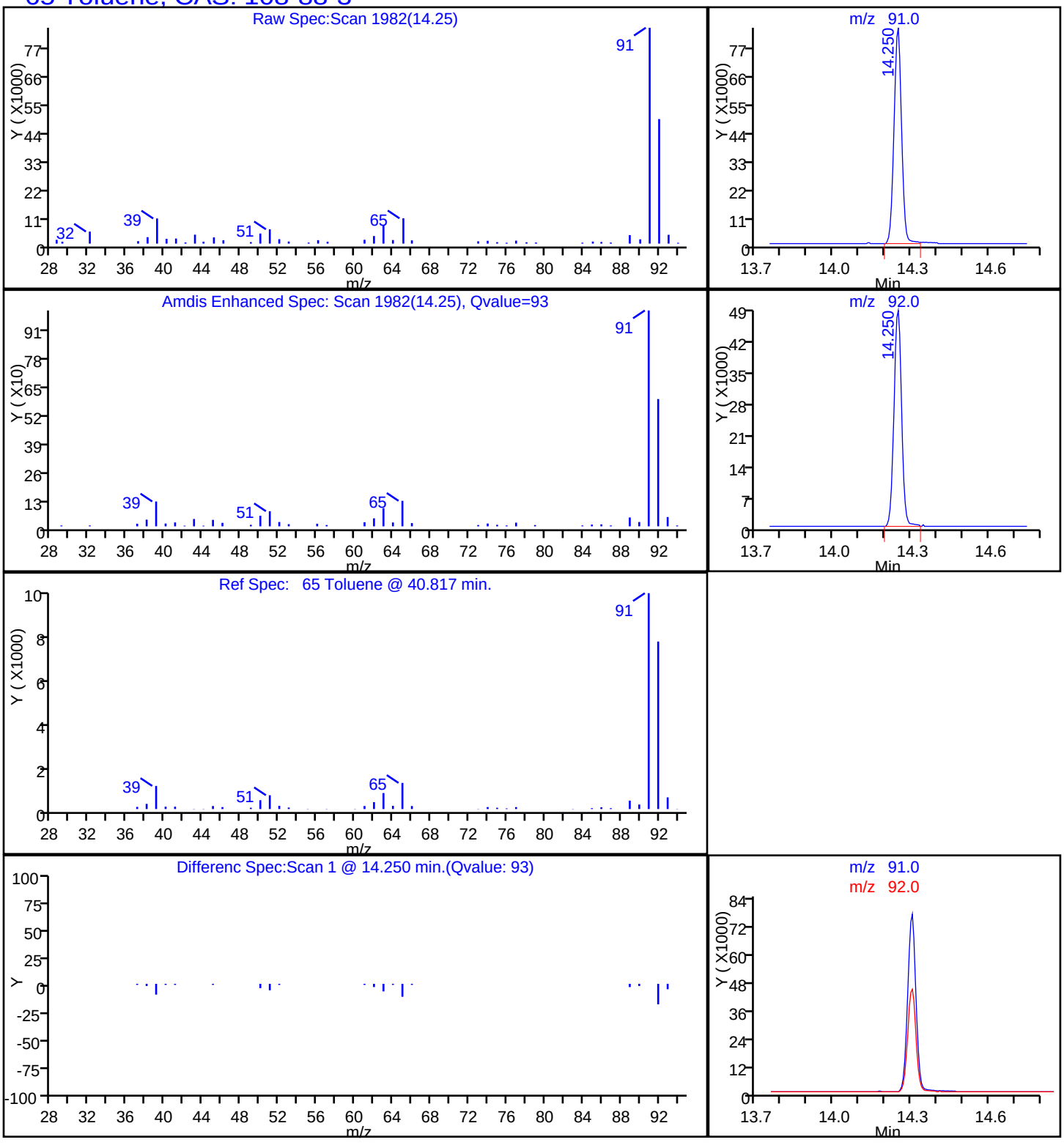
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



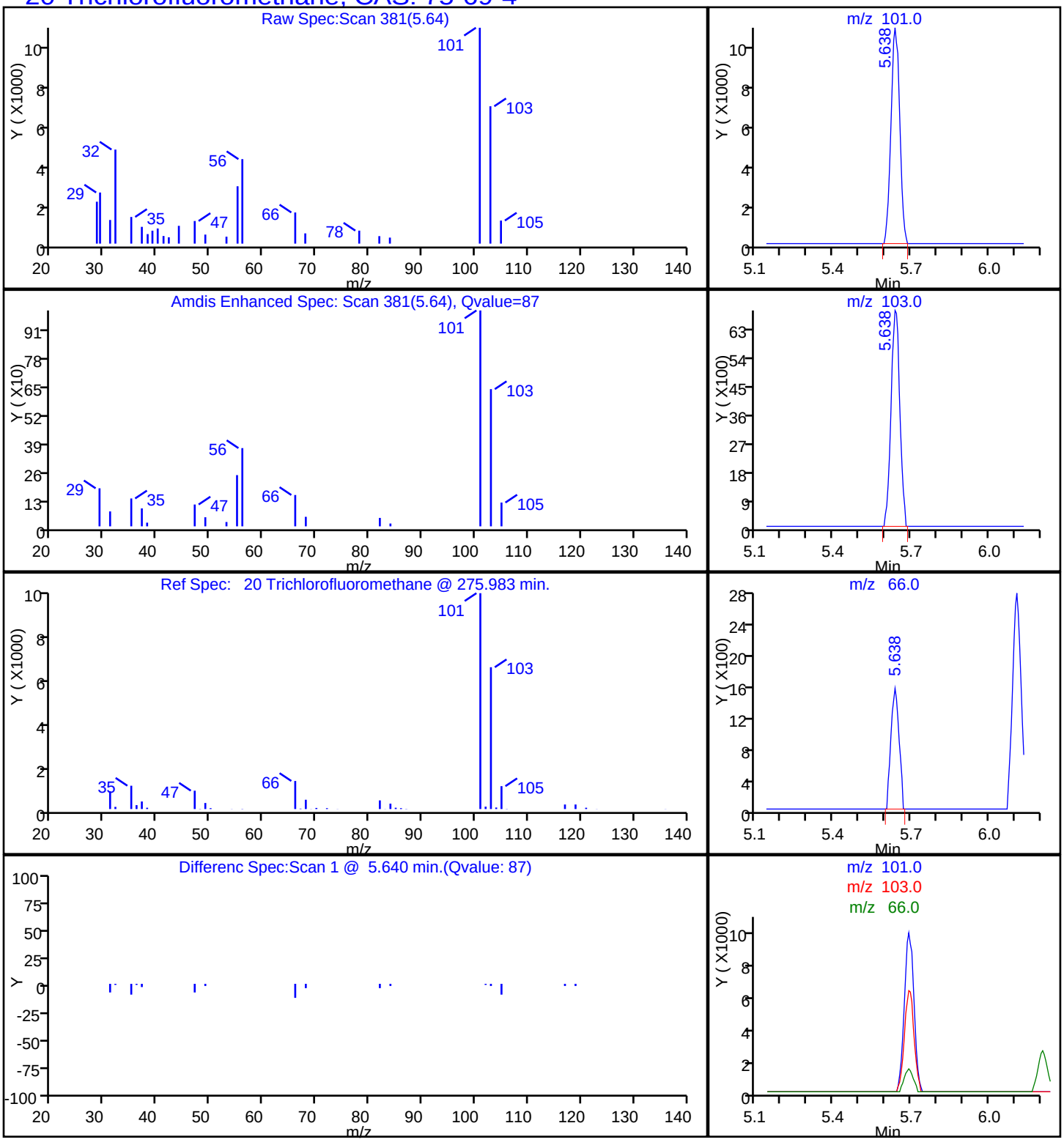
Report Date: 20-Mar-2014 12:49:13 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date:	20-Mar-2014 01:49:30	Instrument ID:	MJ		
Lims ID:	140-1063-A-25	Lab Sample ID:	140-1063-25		
Client ID:	IA2-E17				
Operator ID:	403648	ALS Bottle#:	10	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave		0.5610				16.0		30.0			
Propene	+++++ 0.9670	+++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave		1.0062				26.0		30.0			
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave		4.4249				17.0		30.0			
Chloromethane	+++++ 0.3724	+++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave		0.3532				14.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave		2.6667				15.0		30.0			
Acetaldehyde	+++++ 0.3655	+++++ 0.3980	+++++ 0.3099	+++++ 0.2670	0.3341	Ave		0.3349				15.0		40.0			
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave		1.3641				12.0		30.0			
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave		1.9126				15.0		30.0			
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave		0.9428				13.0		30.0			
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave		1.4727				14.0		30.0			
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave		0.6922				11.0		30.0			
Ethanol	+++++ 0.4199	+++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave		0.4001				22.0		40.0			
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave		1.3309				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave		1.4008				14.0		30.0			
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave		4.4383				17.0		30.0			
Acrolein	+++++ 0.3538	+++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave		0.4230				26.0		30.0			
Acetonitrile	+++++ 0.3530	+++++ 0.3927	+++++ 0.3573	0.5418 0.3400	0.2987	Ave		0.3806				22.0		30.0			
Acetone	+++++ 0.6686	+++++ 0.7741	+++++ 0.5411	+++++ 0.3984	0.6470	Ave		0.6059				24.0		30.0			
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave		0.2626				12.0		30.0			
Isopropyl alcohol	+++++ 1.5944	+++++ 1.5028	+++++ 1.2875	2.2689 1.1693	1.5361	Ave		1.5598				25.0		30.0			
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave		1.0180				13.0		30.0			
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave		1.1898				9.3		30.0			
tert-Butyl alcohol	+++++ 2.4369	+++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave		2.2077				13.0		30.0			
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave		0.7008				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave		2.7478				11.0		30.0			
Methylene Chloride	+++++ 1.1529	+++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave		1.1430				15.0		30.0			
3-Chloropropene	+++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave		1.3495				11.0		30.0			
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave		4.1401				14.0		30.0			
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave		1.4579				9.6		30.0			
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave		2.6342				11.0		40.0			
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave		3.6304				10.0		30.0			
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave		2.4675				9.7		30.0			
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave		2.4333				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave		0.7571				9.1		30.0			
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave		0.1068				10.0		30.0			
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave		0.3033				10.0		30.0			
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave		0.5694				12.0		40.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.4431	+++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave		0.4741				28.0		30.0			
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave		0.4564				6.1		30.0			
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave		0.5402				7.3		30.0			
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave		2.3880				9.4		30.0			
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave		1.0716				12.0		30.0			
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave		0.3155				8.0		30.0			
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave		0.9307				8.7		40.0			
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave		0.9375				9.0		40.0			
2-Hexanone	+++++ 0.2571	+++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave		0.2529				11.0		30.0			
Octane	+++++ 0.3911	+++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave		0.3821				6.0		30.0			
C8 Range	+++++ 2.9370	+++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave		2.8581				8.4		30.0			
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave		0.7144				5.3		30.0			
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave		0.5631				7.3		30.0			
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave		0.4564				9.9		30.0			
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave		0.8545				9.7		30.0			
2,3-Dimethylheptane	+++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave		0.8208				16.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737				14.0		30.0			
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010				12.0		40.0			
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801				17.0		30.0			
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994				11.0		30.0			
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422				11.0		30.0			
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475				10.0		30.0			
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677				14.0		30.0			
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871				8.9		30.0			
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504				9.0		30.0			
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425				16.0		30.0			
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031				9.9		30.0			
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842				8.4		30.0			
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774				14.0		30.0			
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694				9.3		30.0			
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526				13.0		30.0			
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339				16.0		30.0			
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483				14.0		30.0			
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274				13.0		30.0			
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563				16.0		30.0			
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave		1.0095				12.0		30.0			
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave		0.7852				9.9		30.0			
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave		1.3990				14.0		30.0			
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave		1.0417				12.0		40.0			
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave		0.9625				14.0		40.0			
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave		1.0730				13.0		40.0			
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave		0.7605				11.0		30.0			
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave		1.0190				11.0		40.0			
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave		1.2391				15.0		30.0			
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave		0.5595				16.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave		1.2016				13.0		40.0			
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave		1.1893				14.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave		0.7775				13.0		40.0			
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave		0.9931				13.0		40.0			
Dodecane	+++++ 0.5610	+++++ 0.4136	+++++ 0.3675	0.3841 0.3562	0.4375	Ave		0.4200				18.0		30.0			
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave		0.5077				13.0		30.0			
Naphthalene	+++++ 1.0658	+++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave		0.8890				16.0		30.0			
Benzo(b)thiophene	+++++ 0.7932	+++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave		0.6431				14.0		40.0			
Hexachlorobutadiene	+++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave		0.6633				17.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.4777	+++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave		0.3790				13.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0708	+++++ 0.0366	0.0359 0.0329	0.0333 0.0338	0.0507	Ave		0.0420				34.0		40.0			
1-Methylnaphthalene	+++++ 0.0613	+++++ 0.0313	0.0320 0.0281	0.0304 0.0280	0.0447	Ave		0.0366				34.0		40.0			
4-Bromofluorobenzene (Surr)	0.8764 0.9064	0.8622 0.8831	0.8853 0.8647	0.8704 0.8476	0.8872	Ave		0.8759				2.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 114145	+++++ 220842	12259 470316	36926 863843	61736	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 43956	+++++ 82967	4228 180123	9200 344740	24405	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 215750	+++++ 517951	+++++ 917653	+++++ 1587103	103208	+++++ 10.0	+++++ 20.0	+++++ 40.0	+++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 247839	+++++ 513048	24887 893706	62557 1643730	126078	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 41767	+++++ 107255	6203 219844	13234 423477	19559	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 41667	+++++ 102195	+++++ 211592	13491 404172	18458	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 78923	+++++ 201468	+++++ 320431	+++++ 473689	39975	+++++ 2.00	+++++ 4.00	+++++ 8.00	+++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	+++++ 188211	+++++ 391097	+++++ 762400	56495 1390152	94908	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 287661	+++++ 502758	24056 1190666	63898 2173003	140660	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 136091	+++++ 276543	14359 580965	30018 1125171	75254	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 161765	7829 343703	15247 699636	33884 1328767	83663	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 62183	+++++ 154173	8608 299770	27657 574229	31136	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	+++++ 124192	6390 261785	11654 554862	26715 1072303	67857	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	+++++ 1486536	+++++ 3269816	158324 6658150	413651 12646140	798122	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	11921 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 46083	+++++ 82932	3365 208198	11427 392886	20371	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 173660	+++++ 387353	16412 802540	37765 1557247	92876	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	+++++ 238205	+++++ 616474	35924 1224874	58754 2264964	104204	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	+++++ 122157	+++++ 326086	11163 651527	28985 1243696	53001	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185816	+++++ 453833	17370 940368	42571 1783859	97549	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	+++++ 1578746	+++++ 3858825	152600 7747718	362184 14384218	825217	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	+++++ 289001	+++++ 846104	29603 1669019	76277 2999349	118873	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	+++++ 266531	+++++ 480371	+++++ 948787	41037 1821914	116179	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	+++++ 506405	+++++ 1232774	30618 2452886	81568 4473334	206421	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 376890	+++++ 827312	22418 1710074	59699 3366455	154579	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 226991	+++++ 462386	13788 958303	36488 1945035	94418	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 210283	+++++ 265416	9403 531580	22232 1080016	84076	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 181928	+++++ 226940	8399 454062	20319 896319	74269	+++++ 12.5	+++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical1,1,1,1,,IC L1
Misc. Info.: E012814I,TO155,140-0000390-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

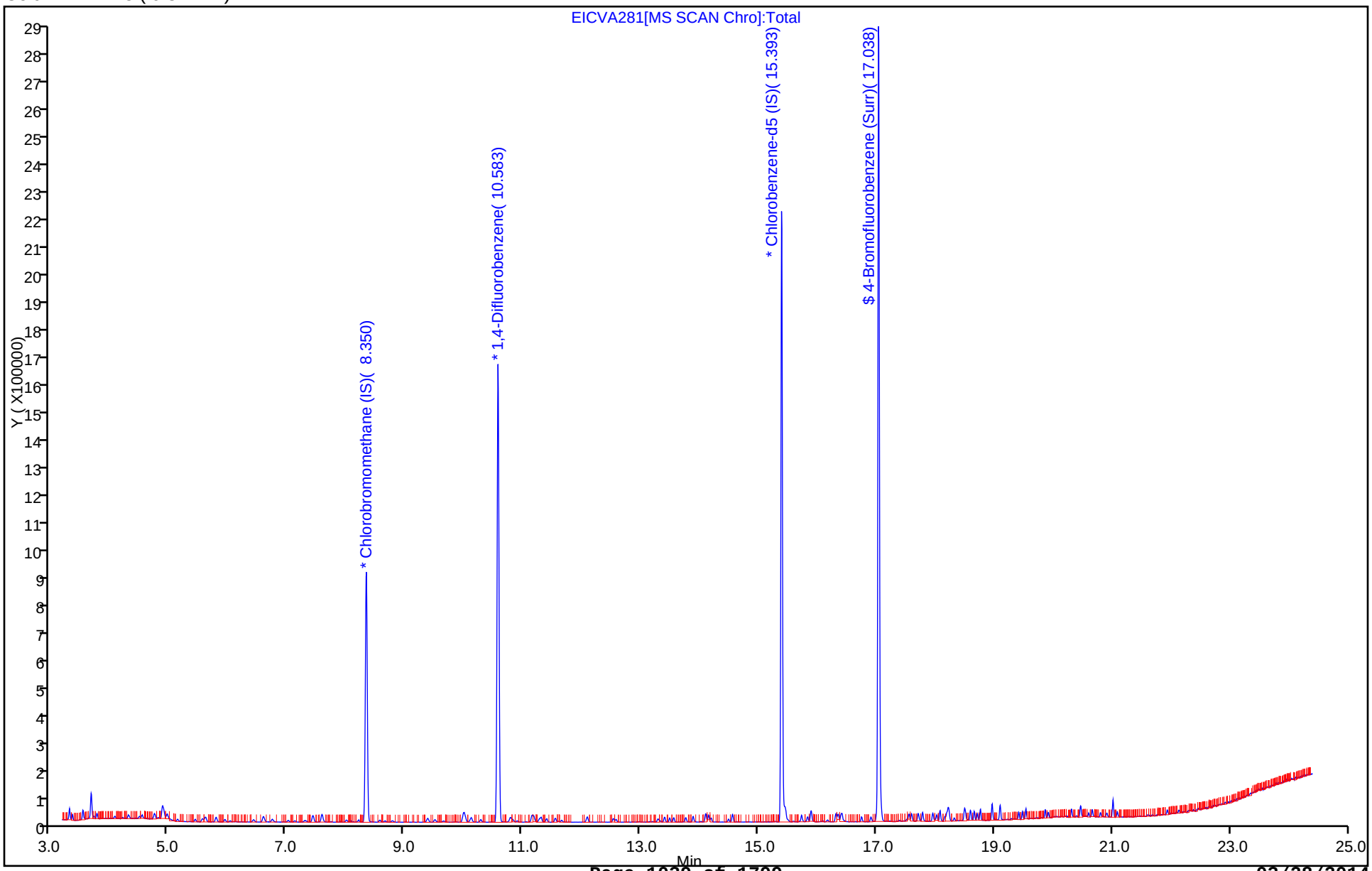
Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

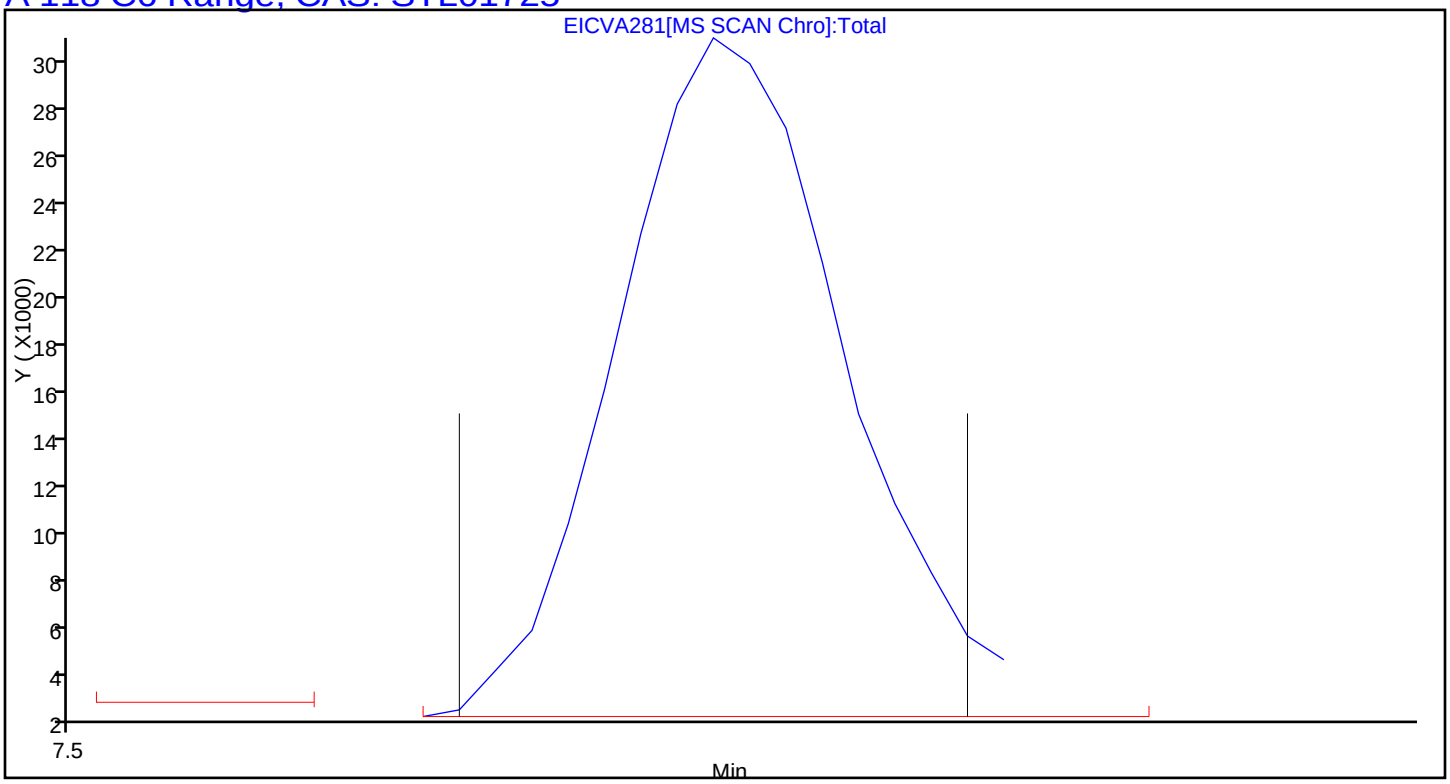


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

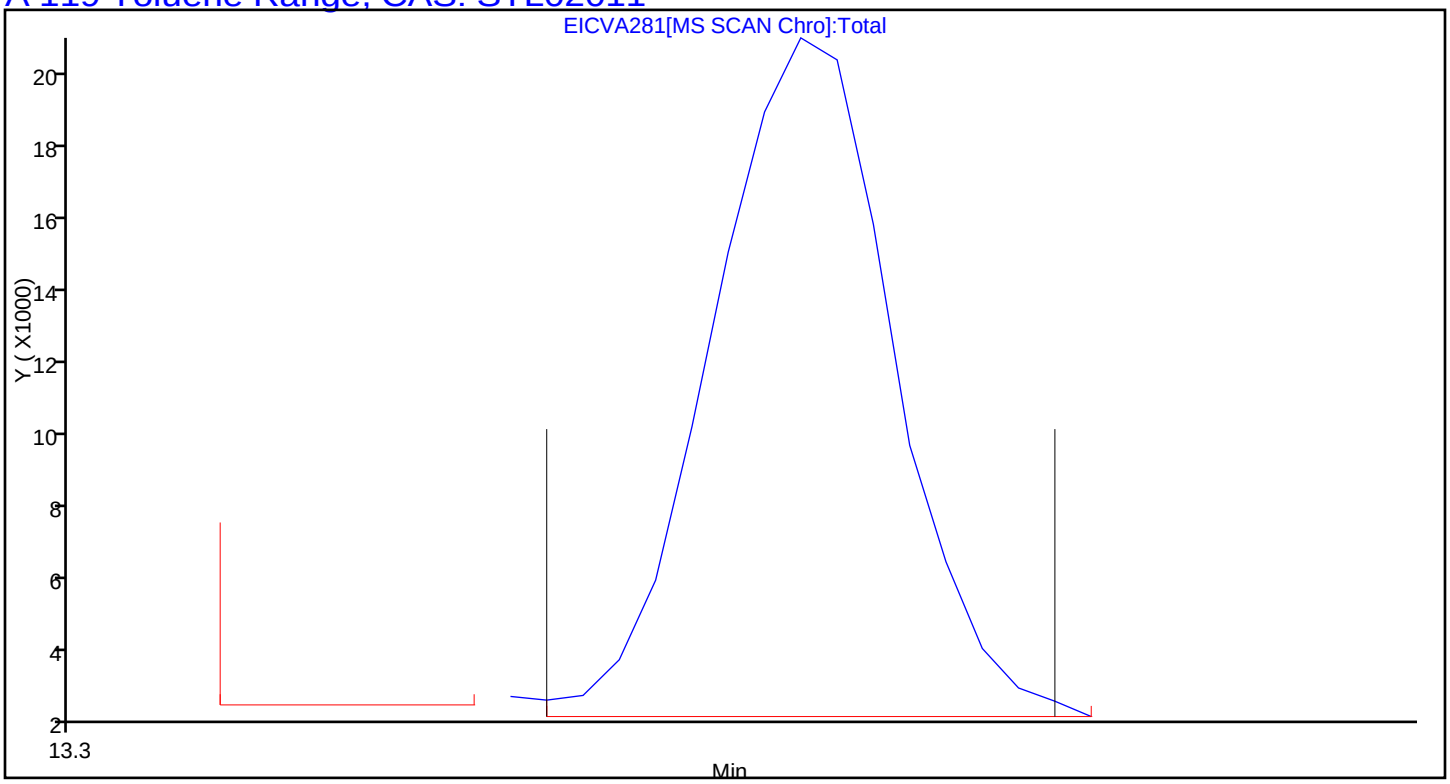


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

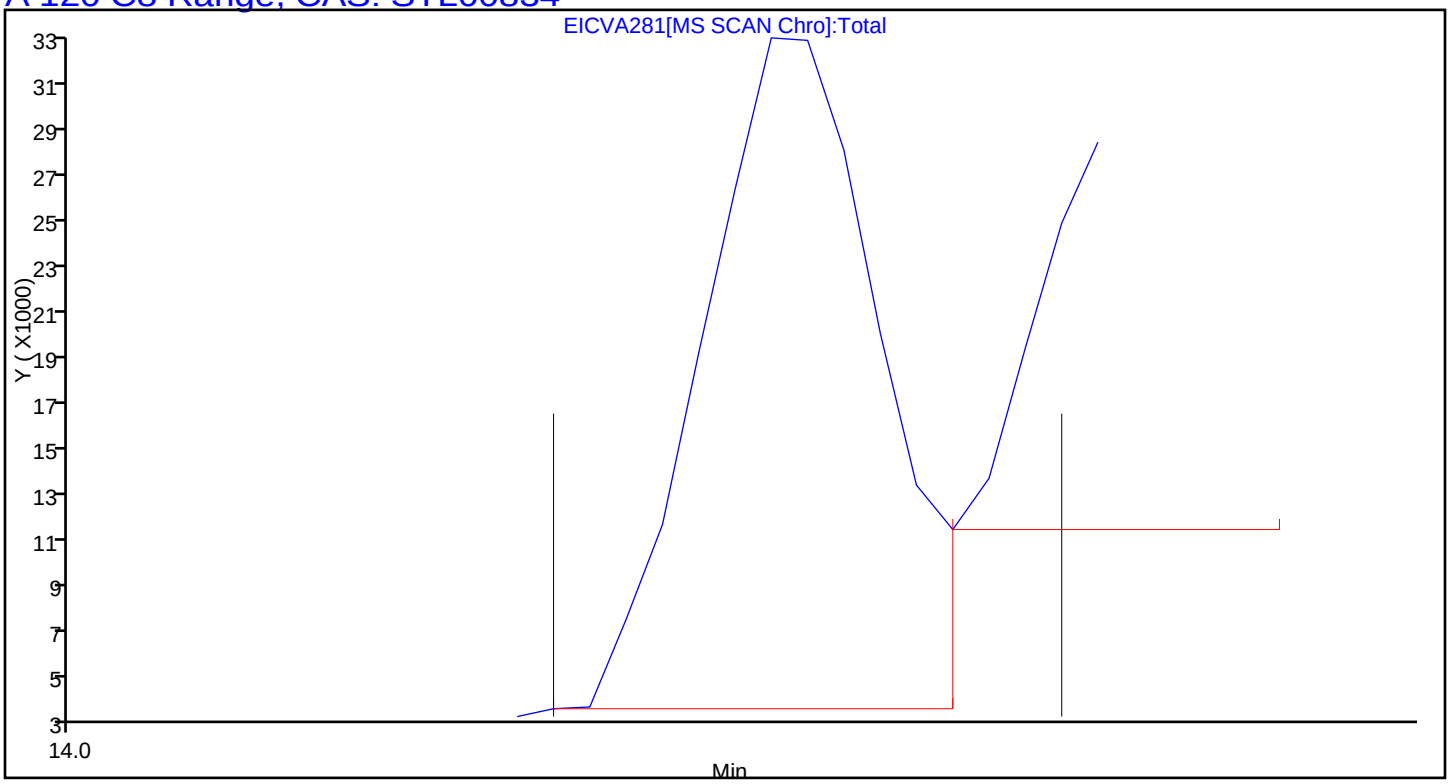


Report Date: 30-Jan-2014 13:09:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D				
Injection Date:	28-Jan-2014 14:11:30	Instrument ID:	ME		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,2,,IC L2
Misc. Info.: E012814I,TO155,140-0000390-003
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

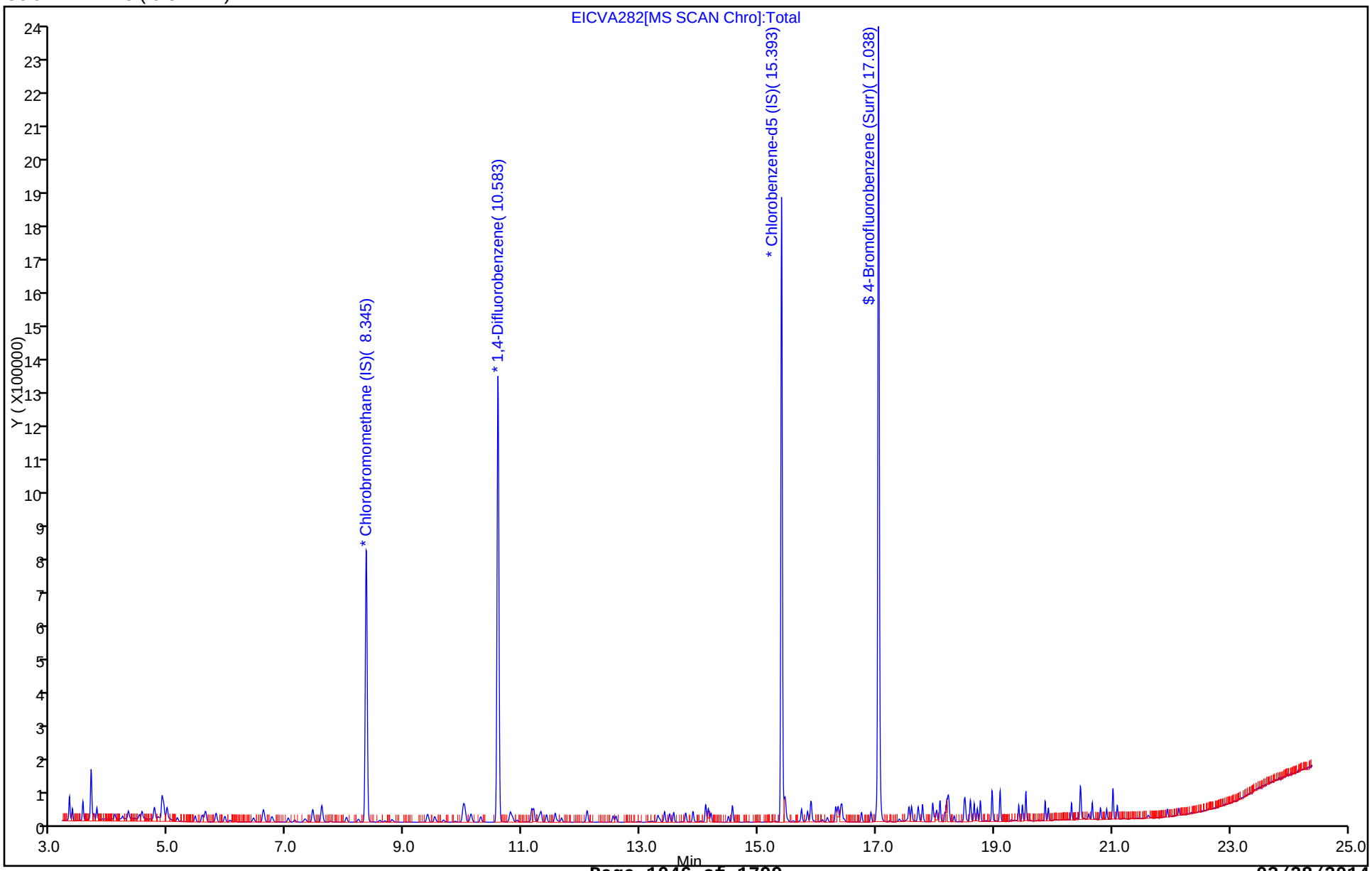
Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

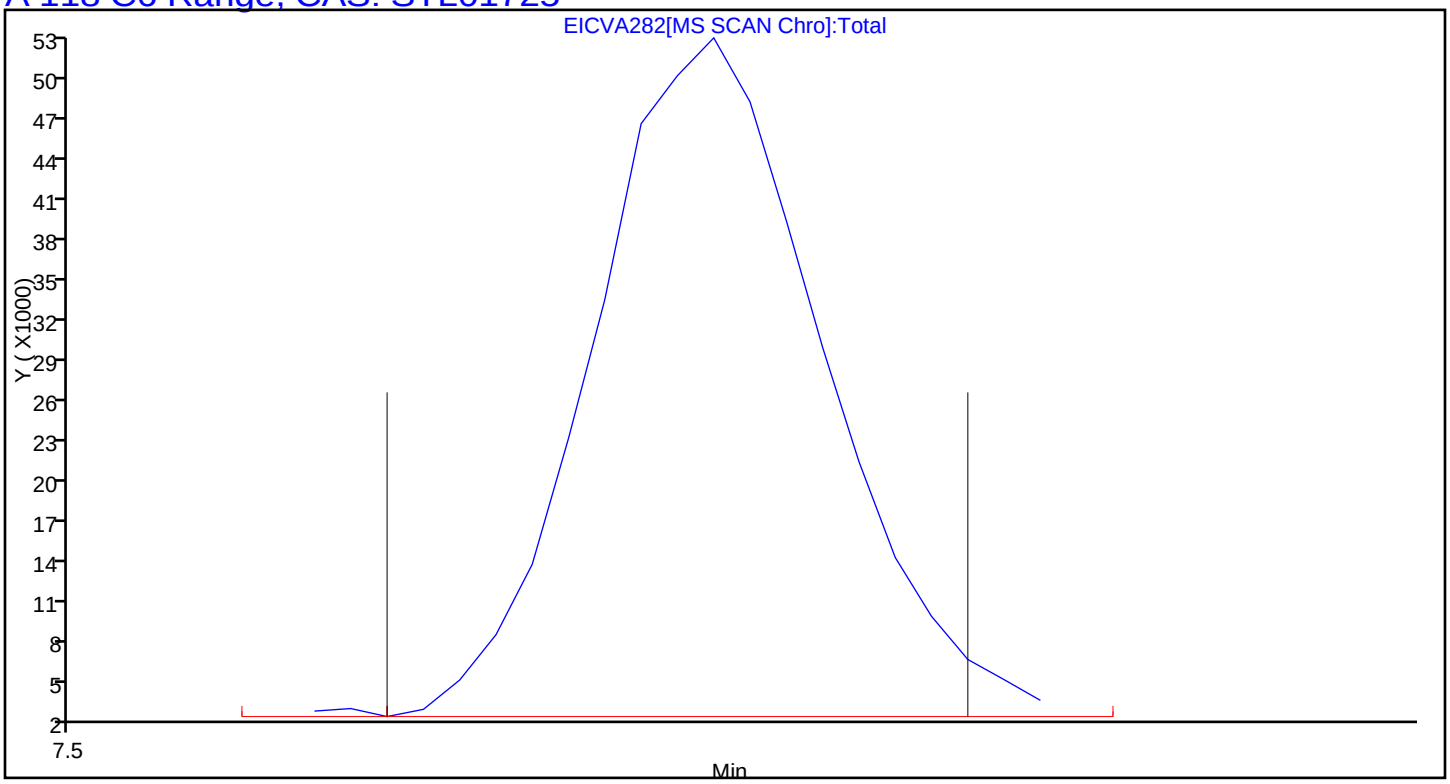


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

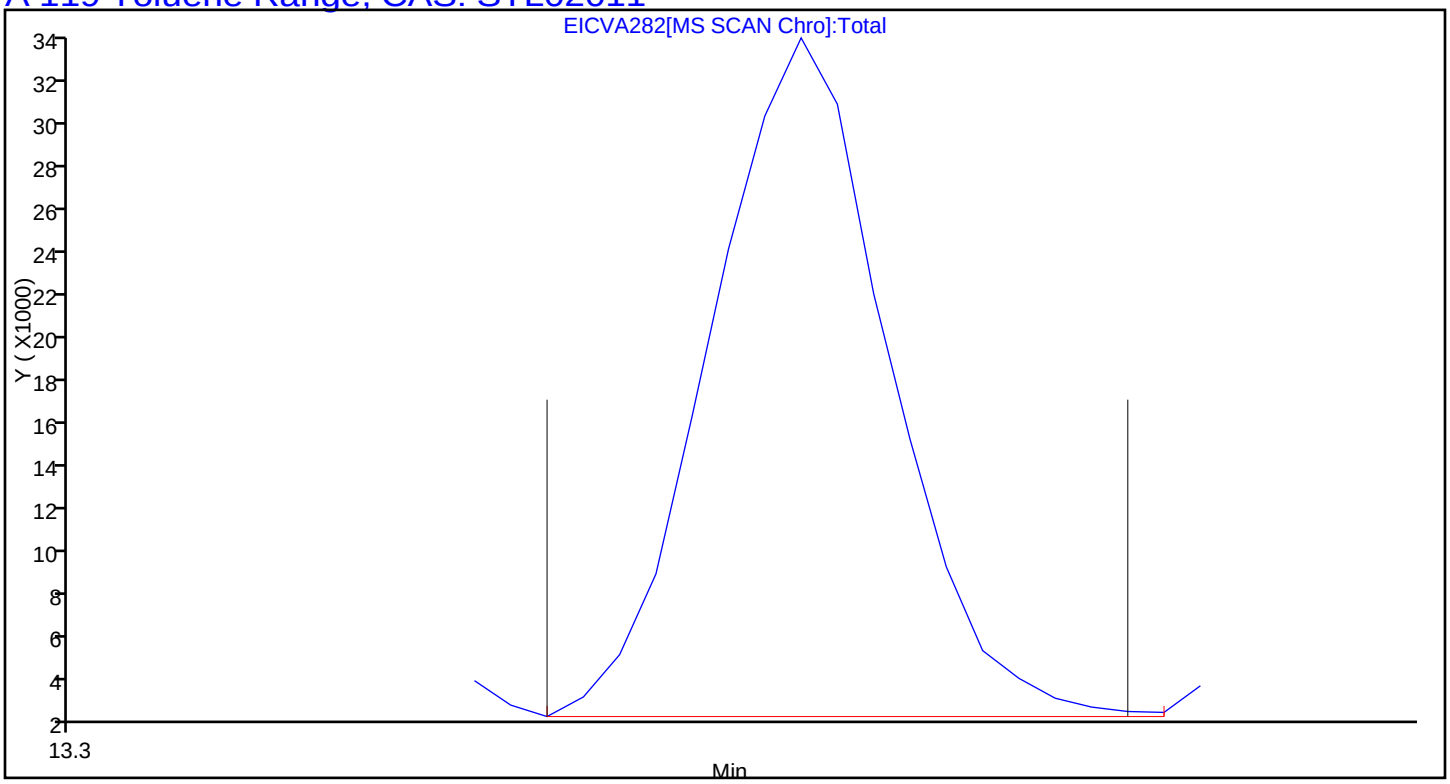


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

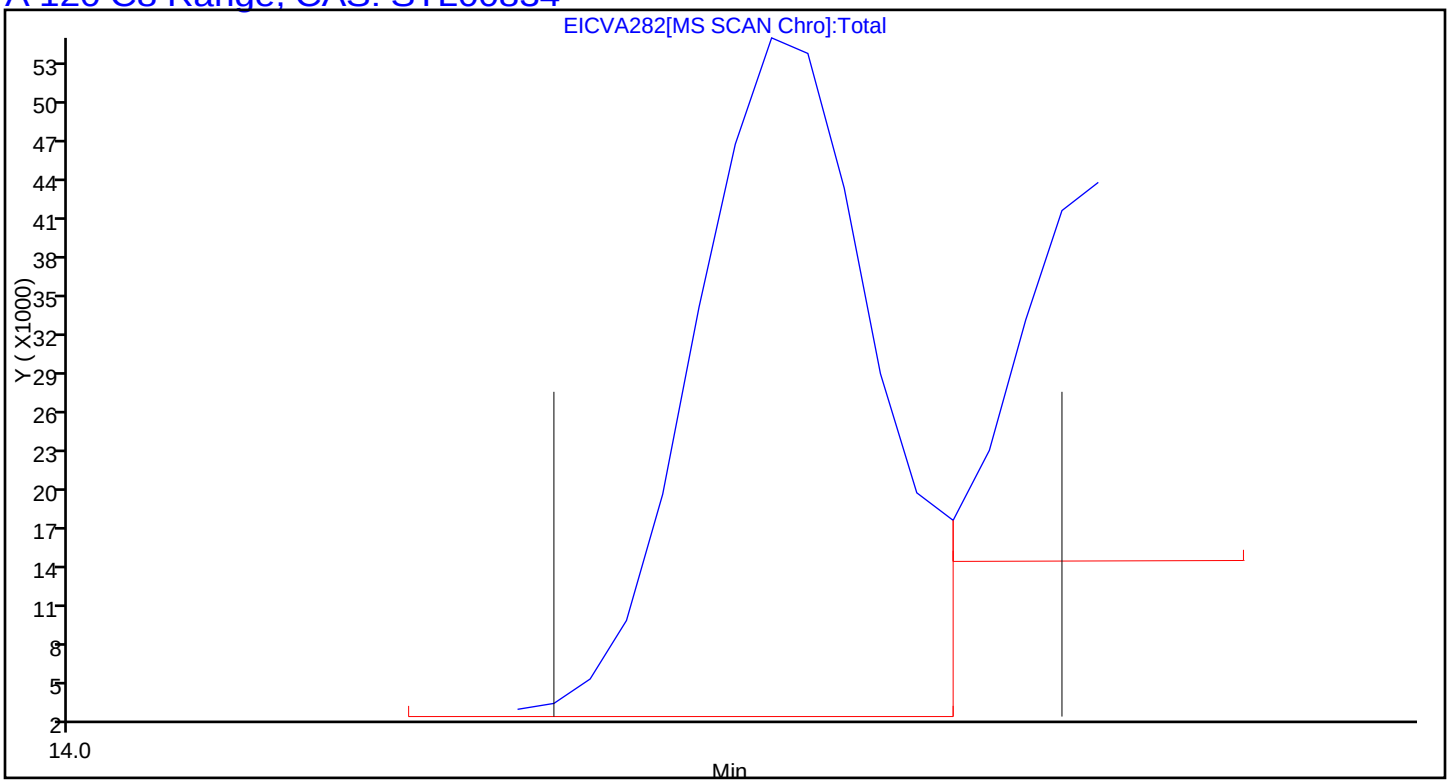


Report Date: 30-Jan-2014 13:08:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D				
Injection Date:	28-Jan-2014 14:57:30	Instrument ID:	ME		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	1	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
Lims ID: IC L3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,3,,IC L3
Misc. Info.: E012814I,TO155,140-0000390--004
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

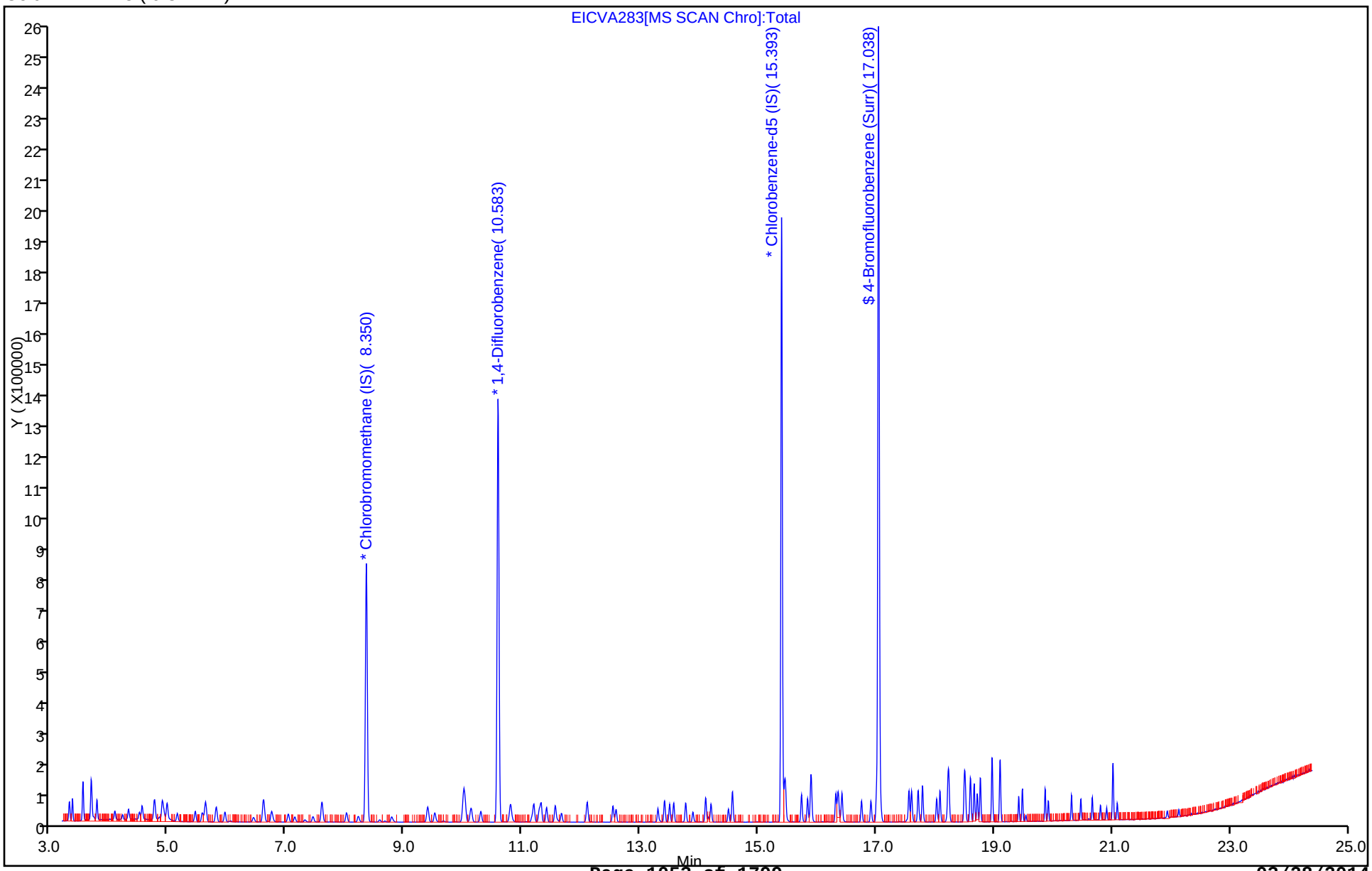
Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

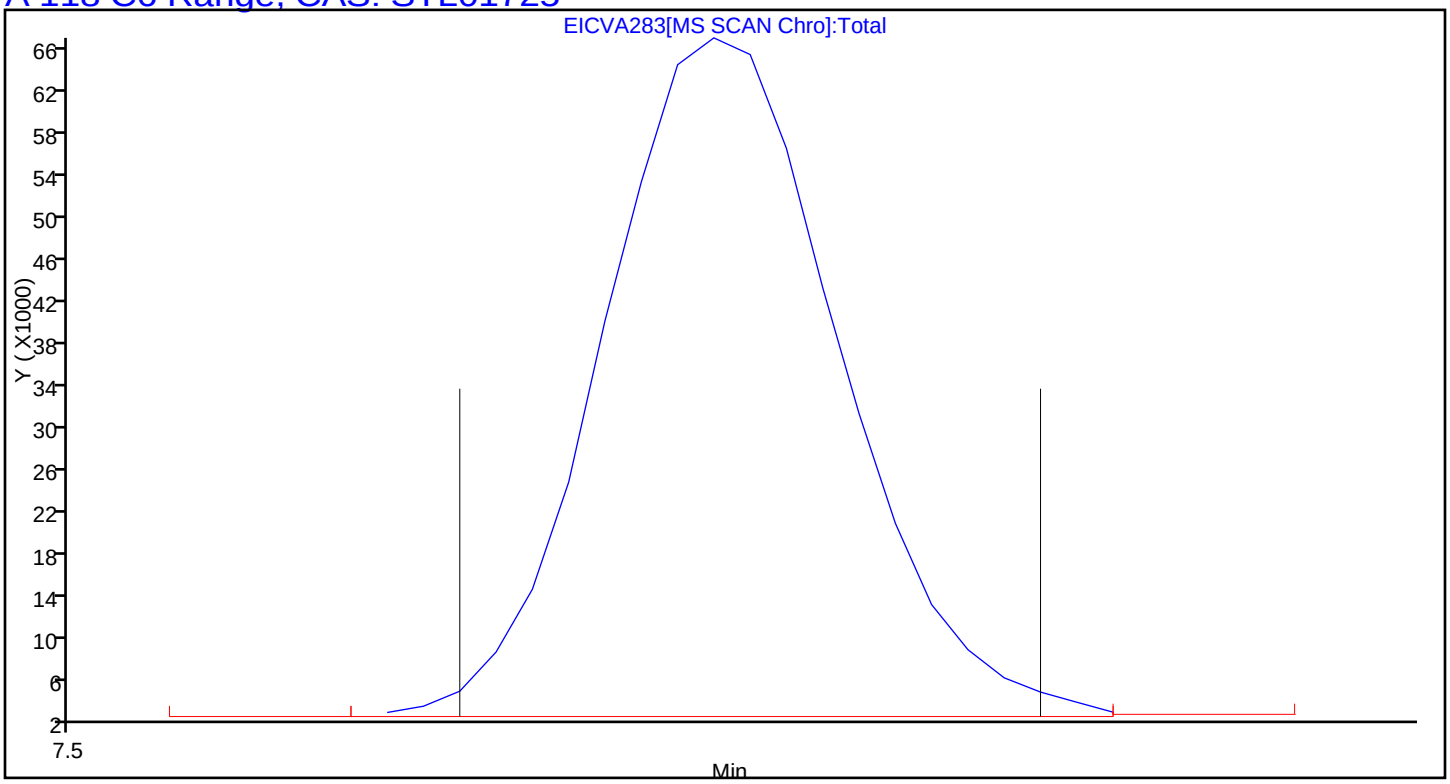


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

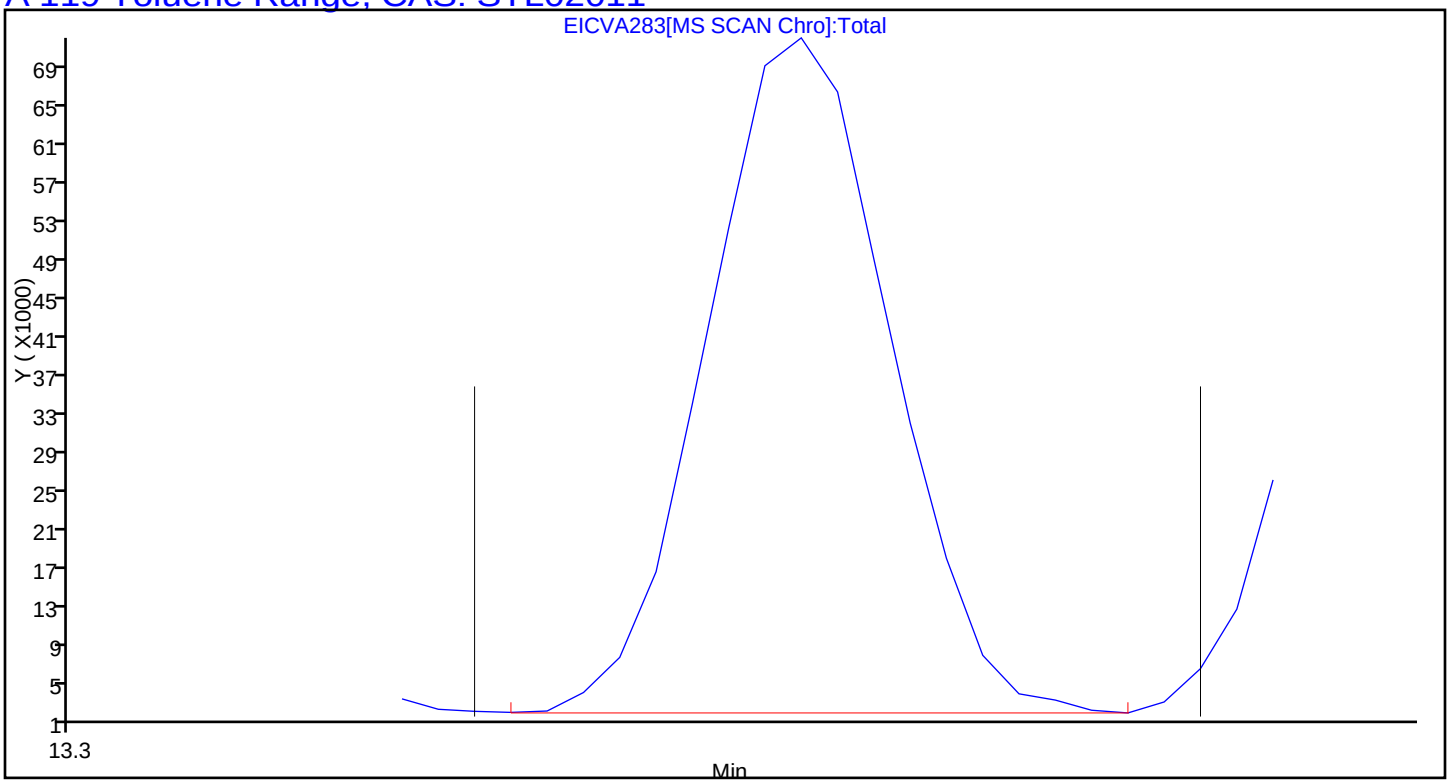


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

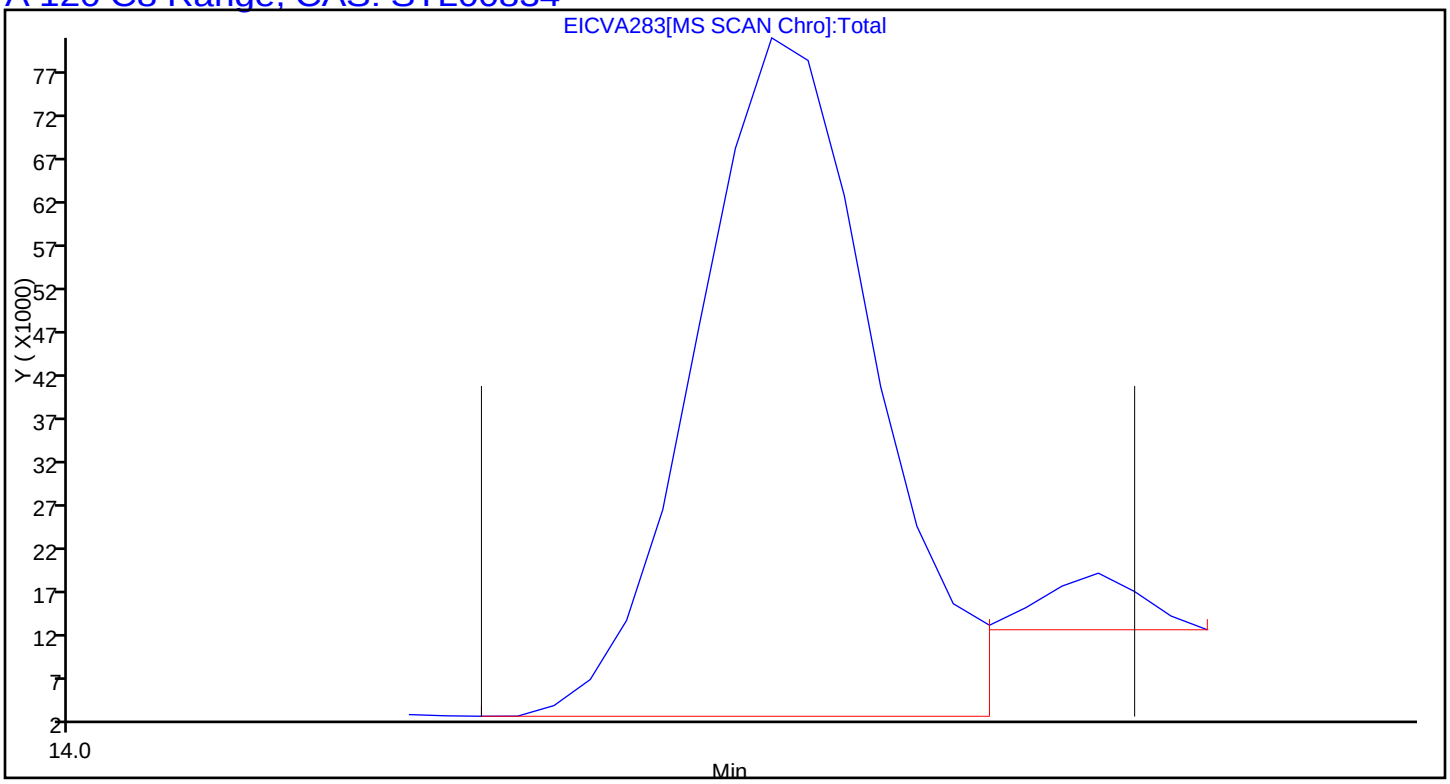


Report Date: 30-Jan-2014 13:08:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D				
Injection Date:	28-Jan-2014 15:42:30	Instrument ID:	ME		
Lims ID:	IC L3	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	2	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,4,,IC L4
Misc. Info.: E012814I,TO155,140-0000390-005
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 -	7.644	0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 -	13.457	0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 -	14.169	0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

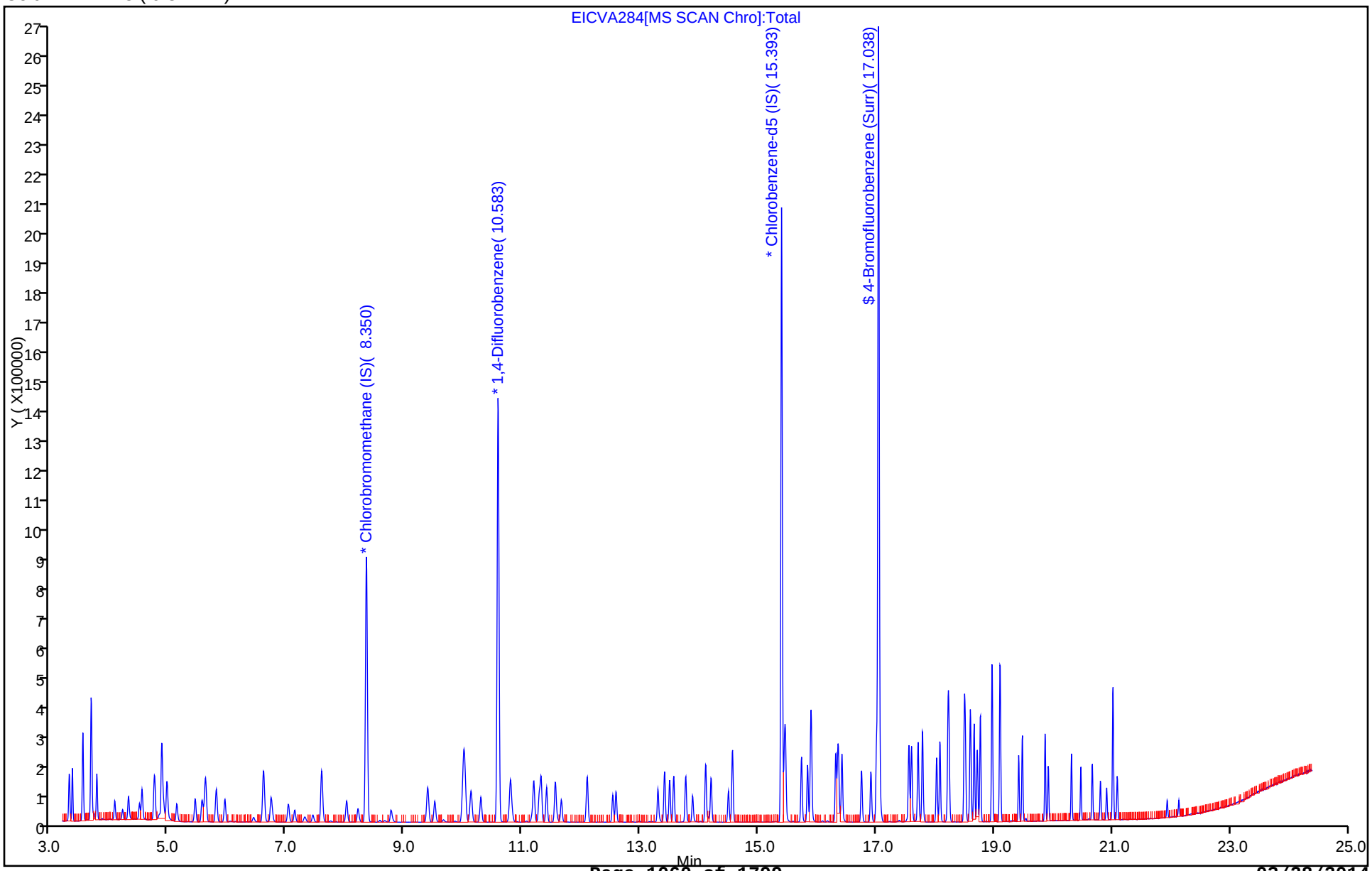
Report Date: 30-Jan-2014 13:08:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

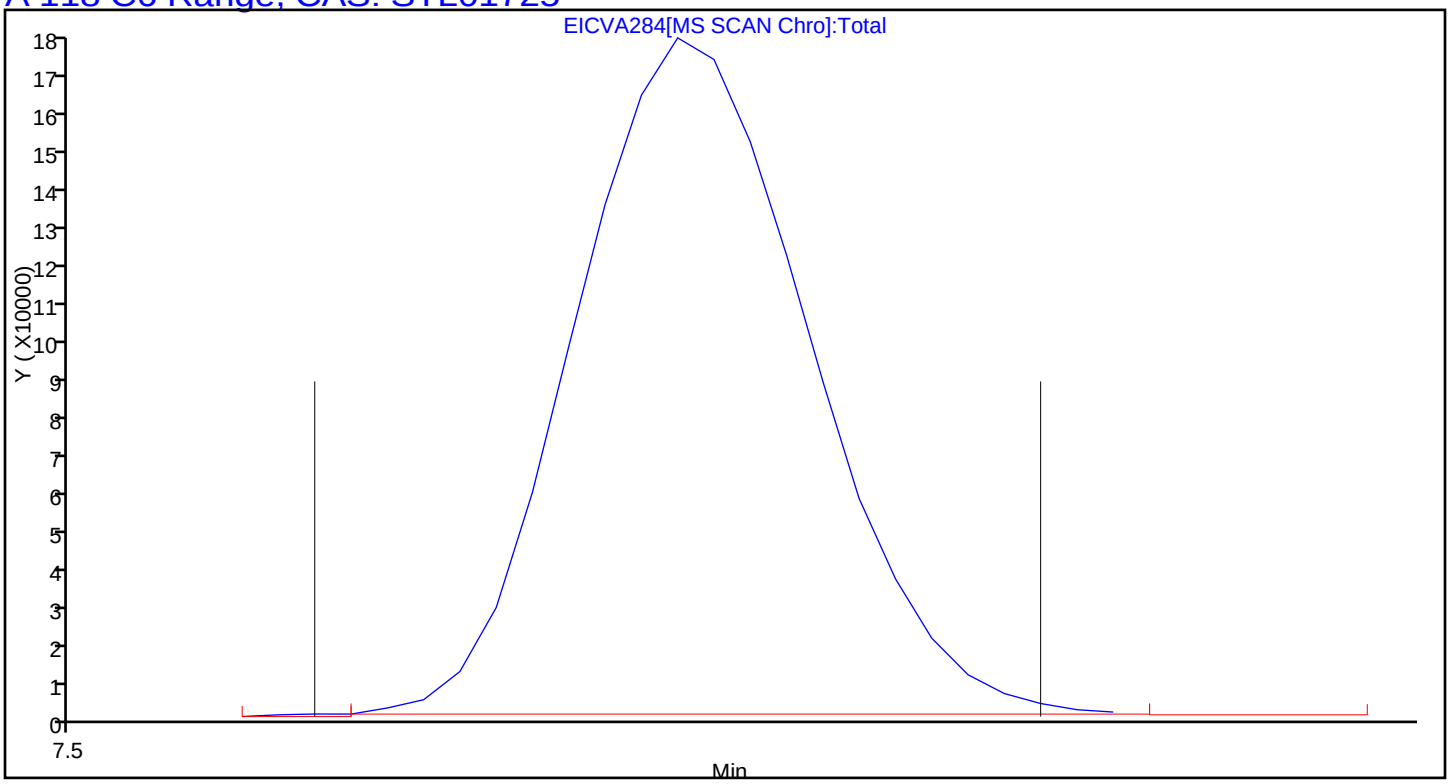


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

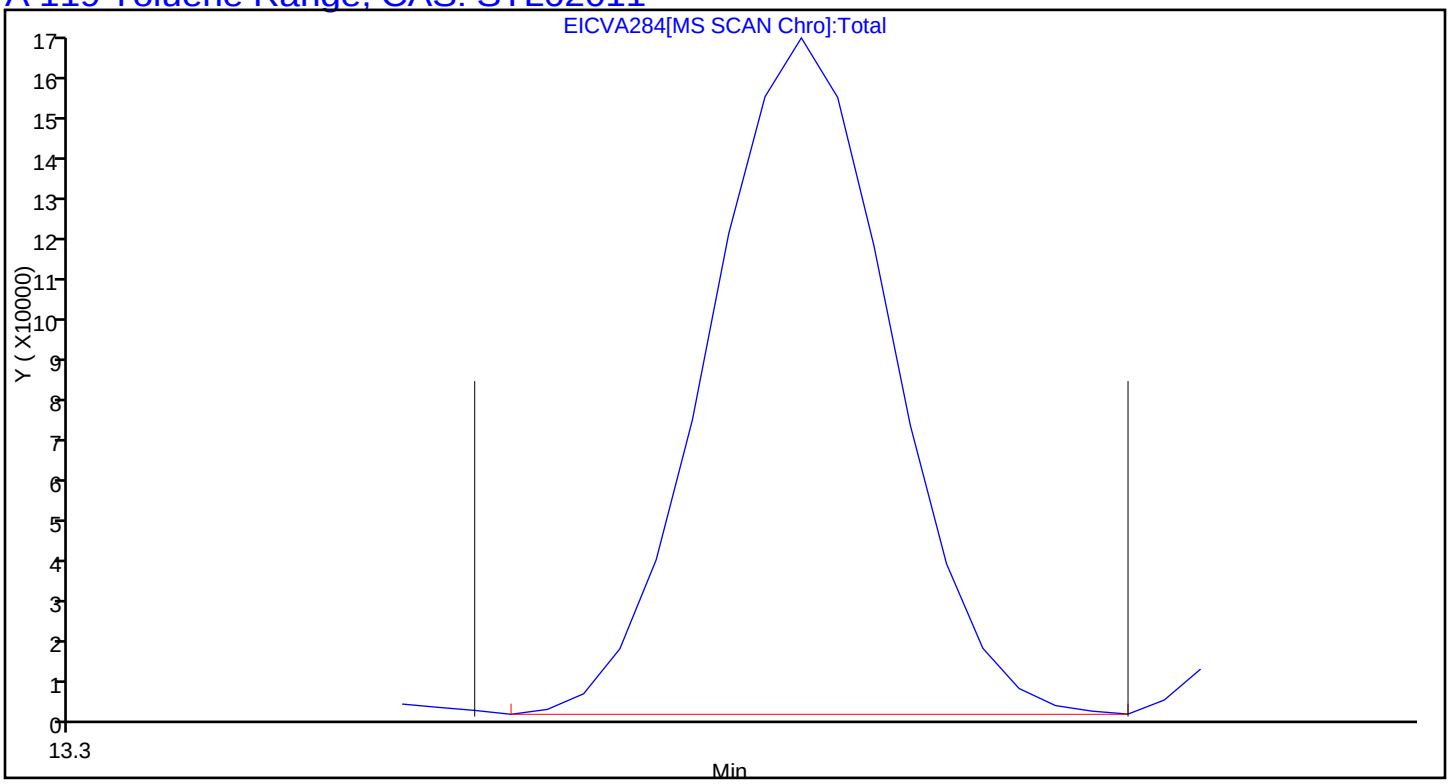


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

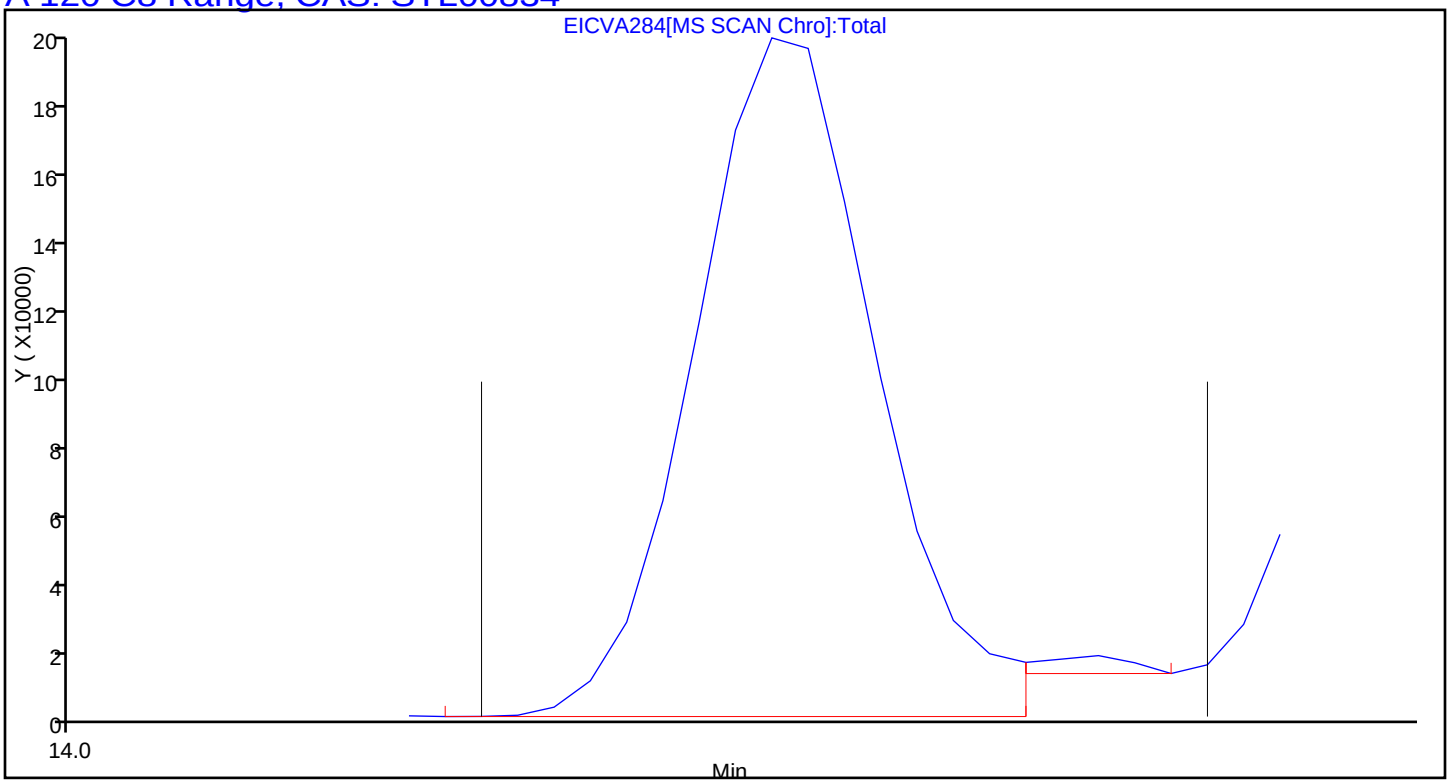


Report Date: 30-Jan-2014 13:08:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D				
Injection Date:	28-Jan-2014 16:27:30	Instrument ID:	ME		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	32	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,5,,IC L5
Misc. Info.: E012814I,TO155,140-0000390-006
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

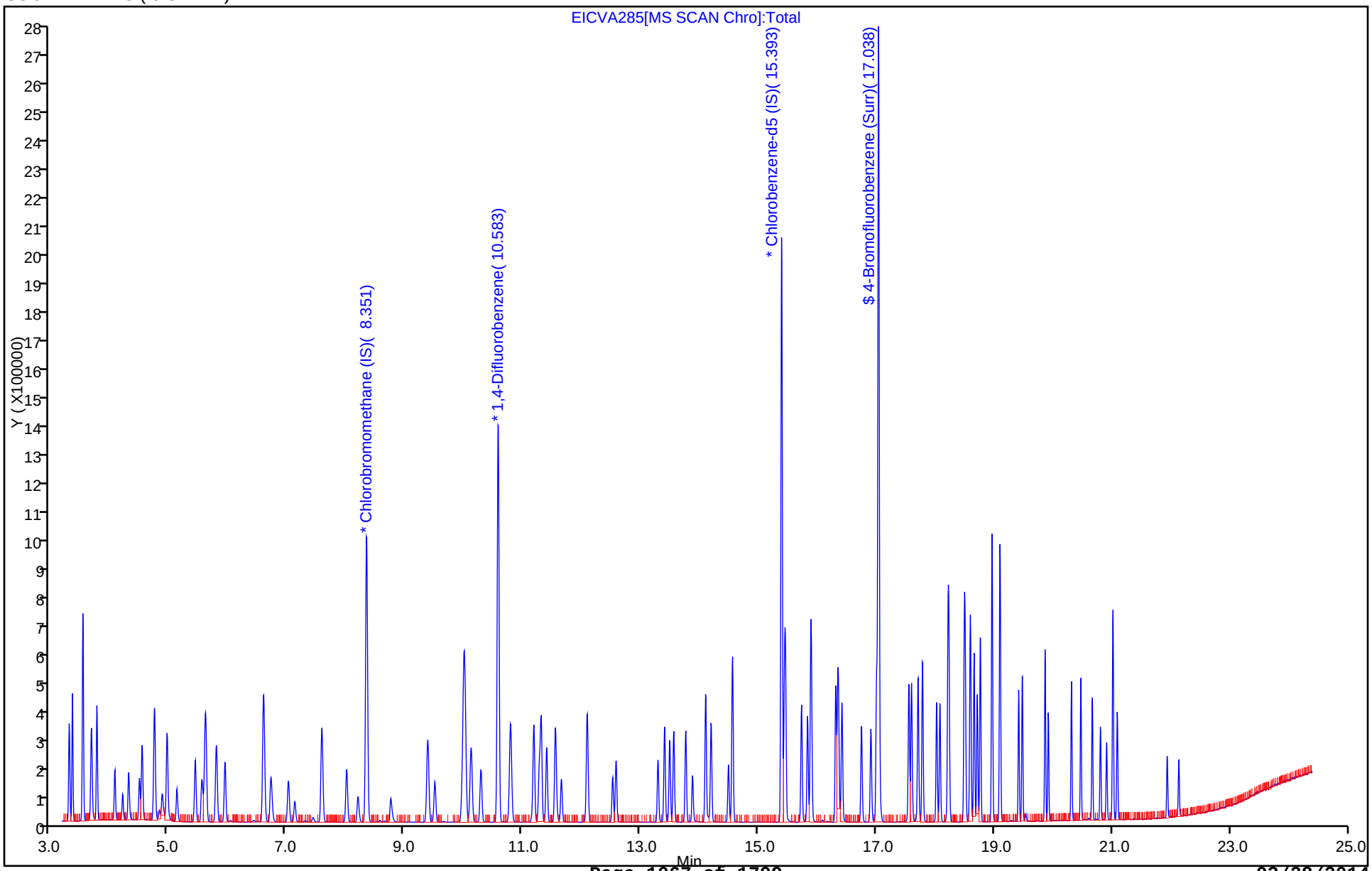
Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

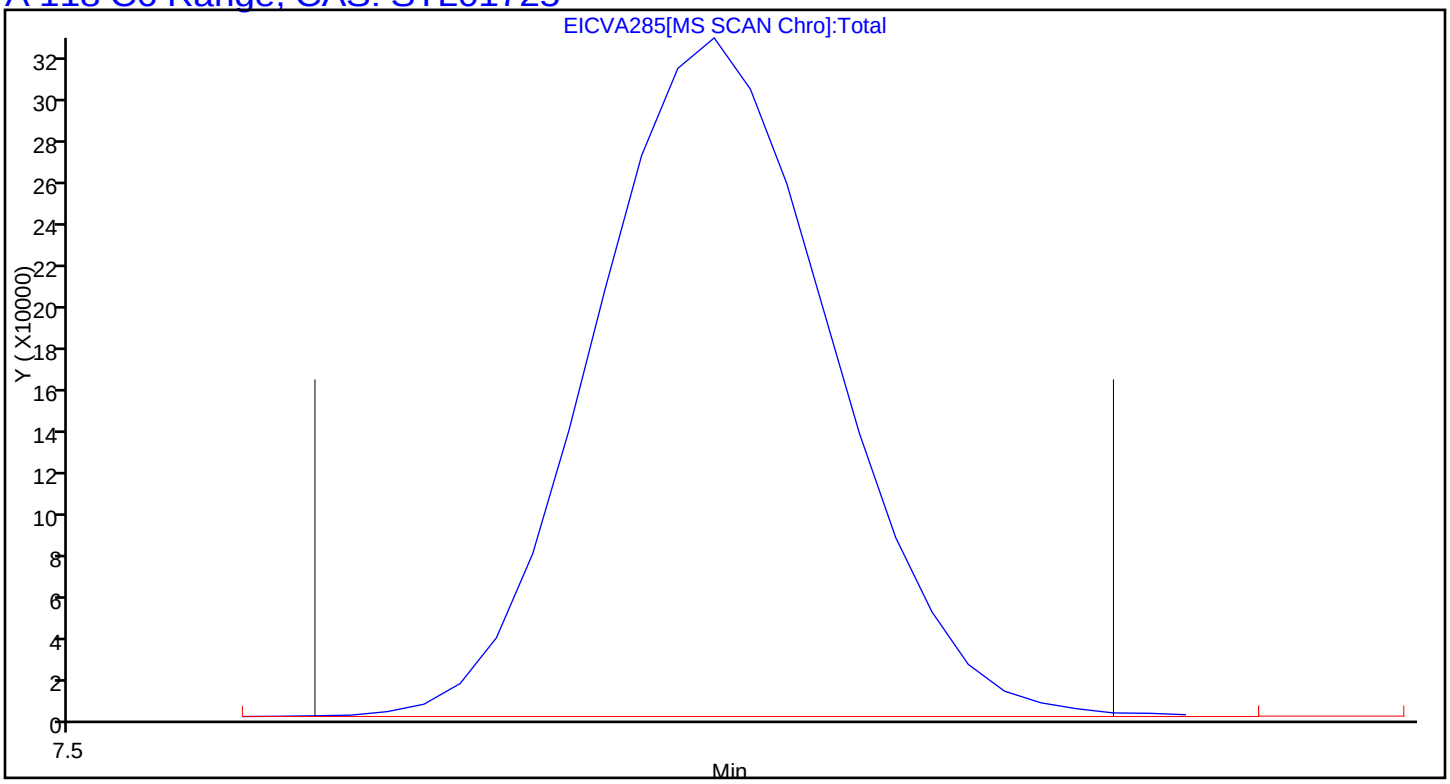


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

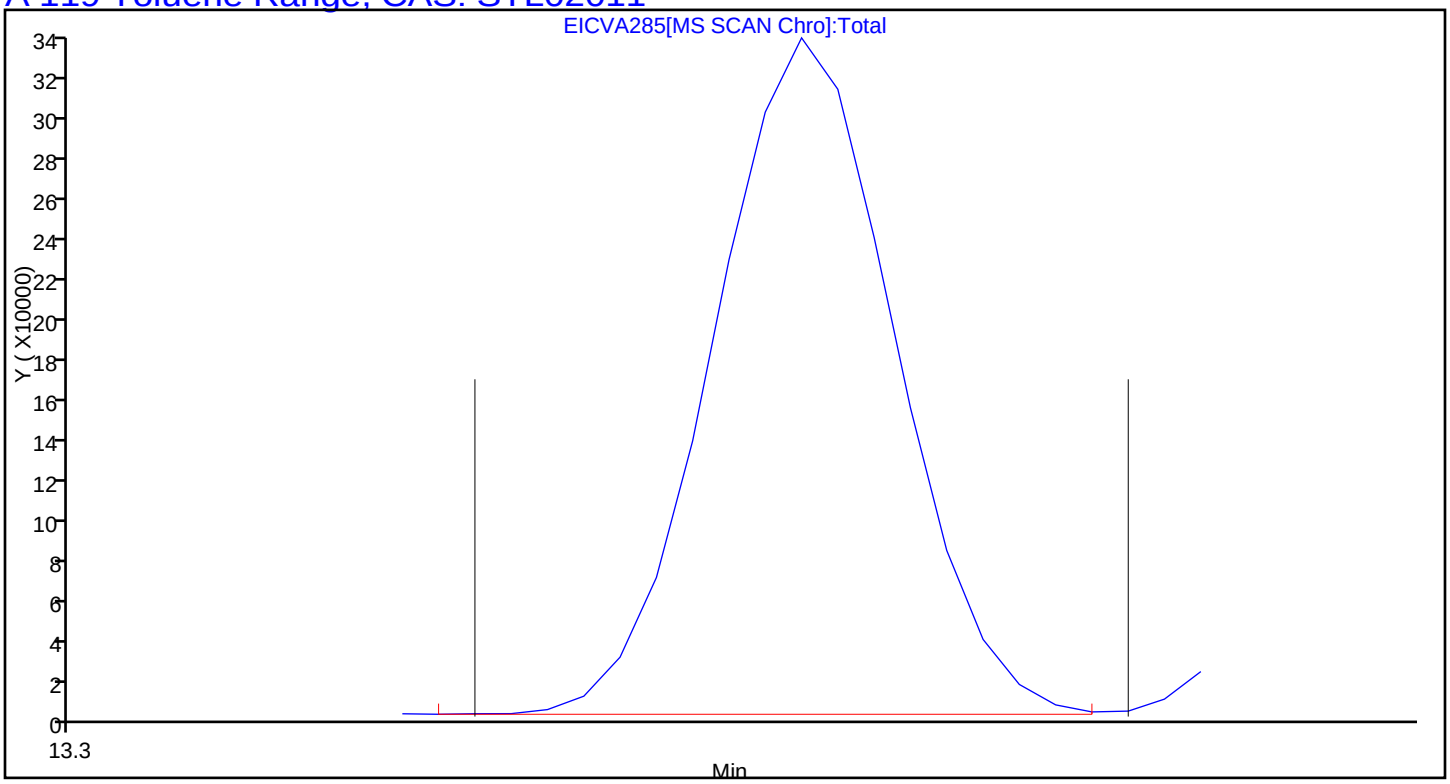


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

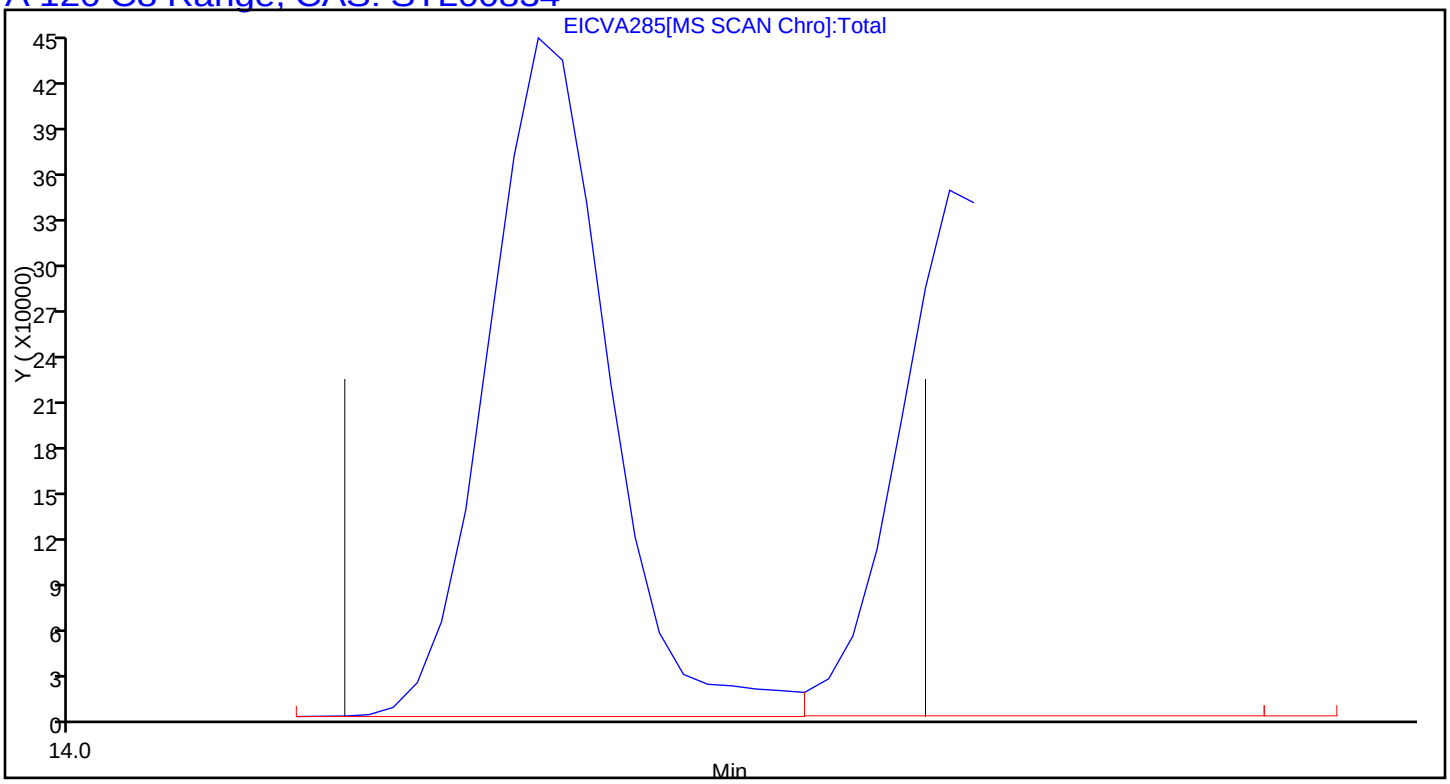


Report Date: 30-Jan-2014 13:08:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D				
Injection Date:	28-Jan-2014 17:13:30	Instrument ID:	ME		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L6
Misc. Info.: E012814I,TO155,140-0000390-007
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

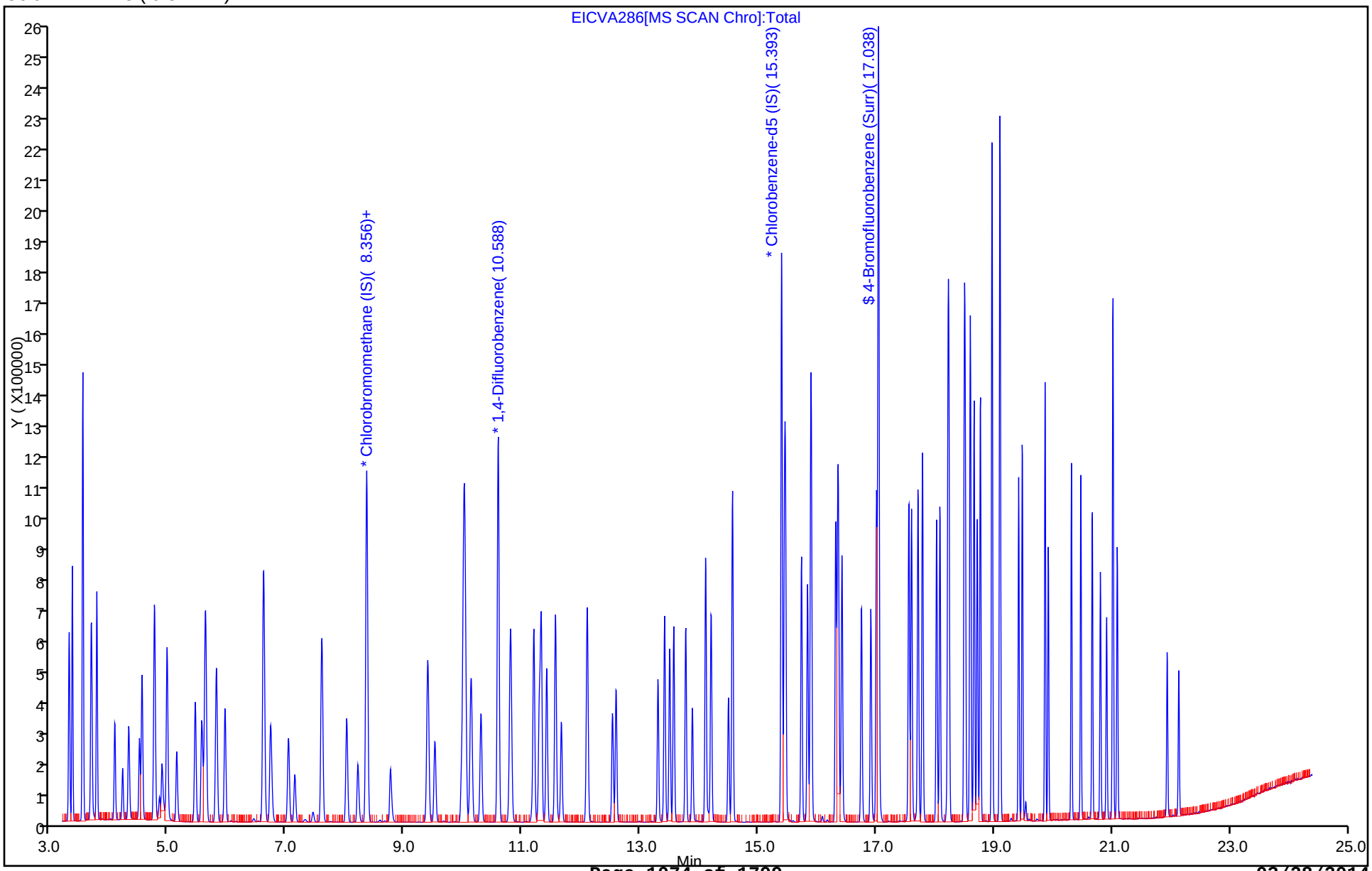
Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

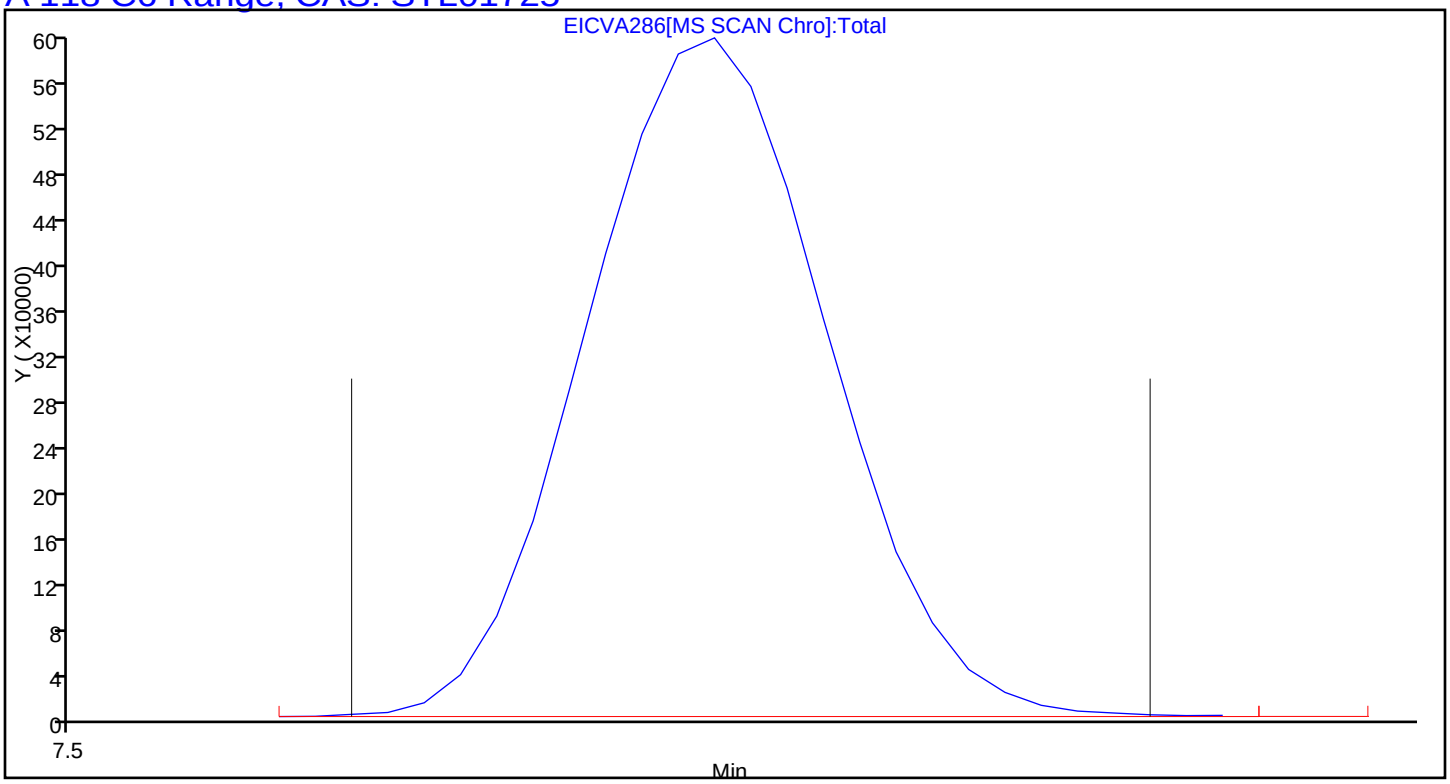


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

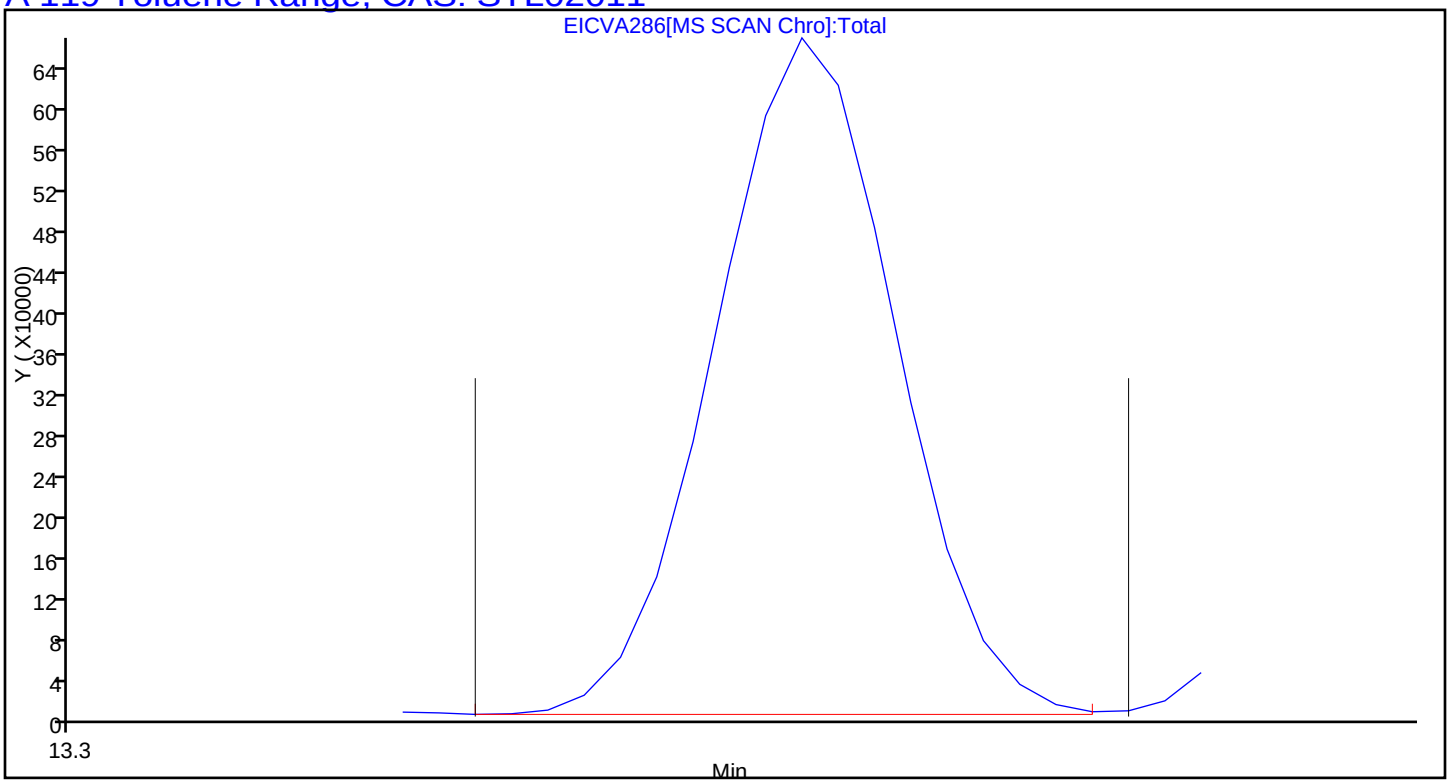


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

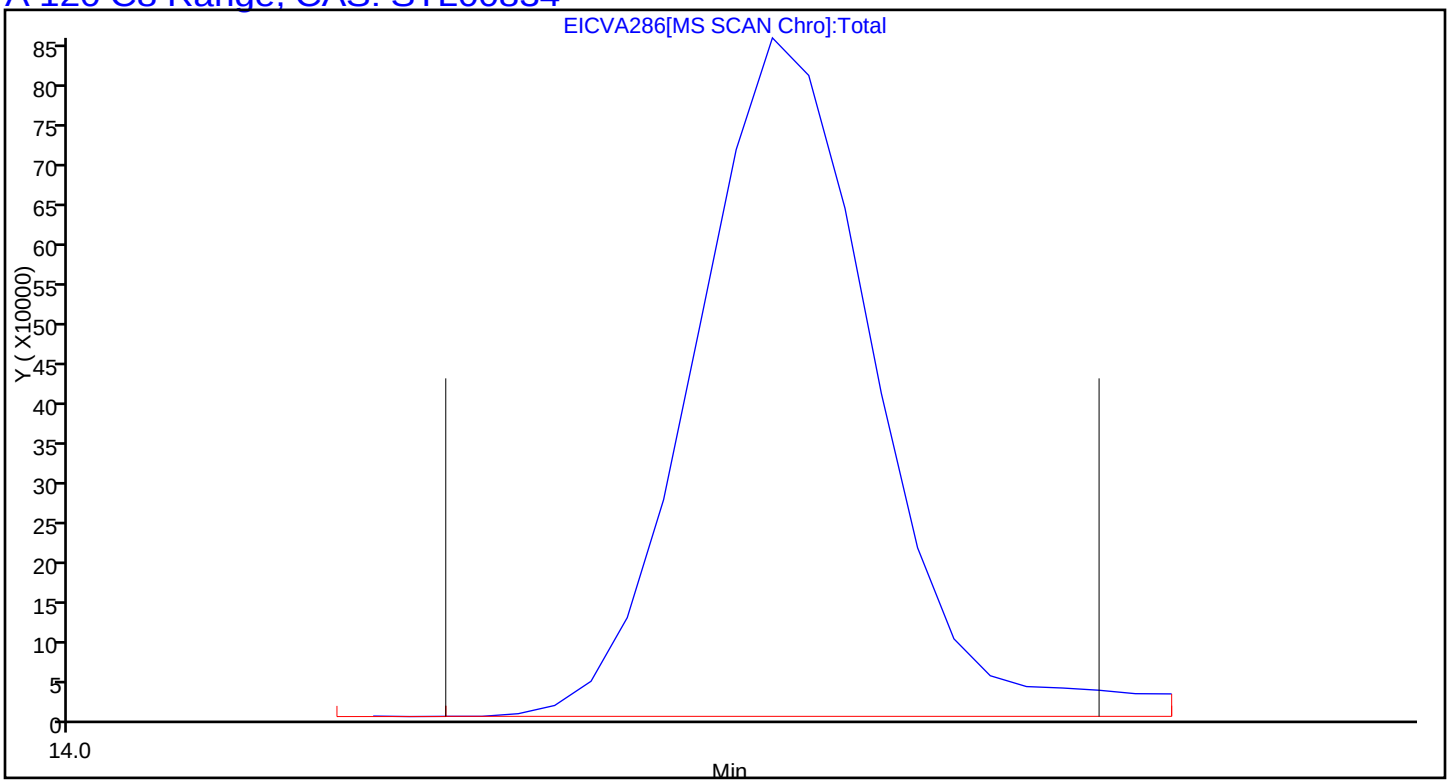


Report Date: 30-Jan-2014 13:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D				
Injection Date:	28-Jan-2014 18:10:30	Instrument ID:	ME		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L7
Misc. Info.: E012814I,TO155,140-0000390-008
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

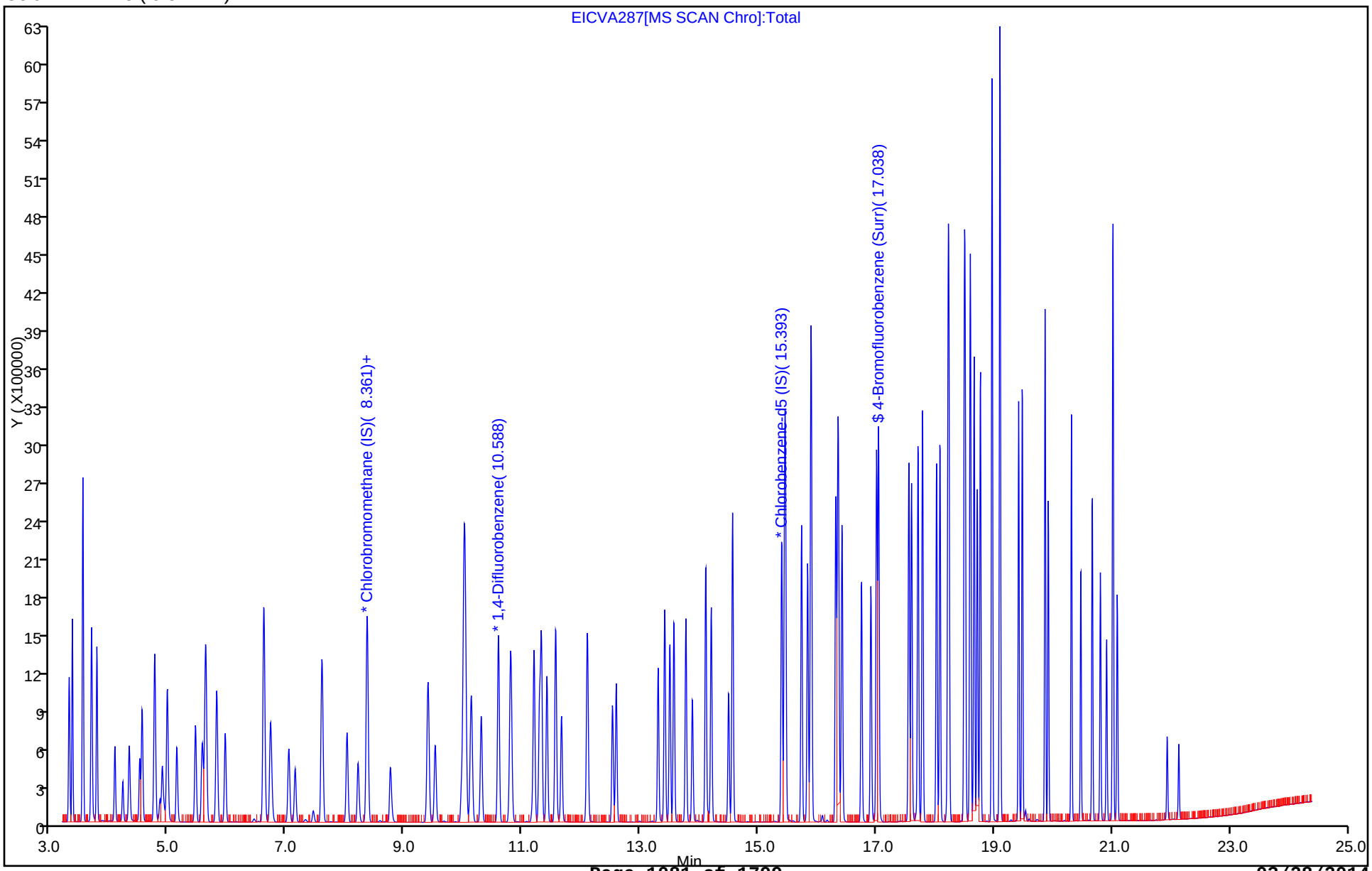
Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

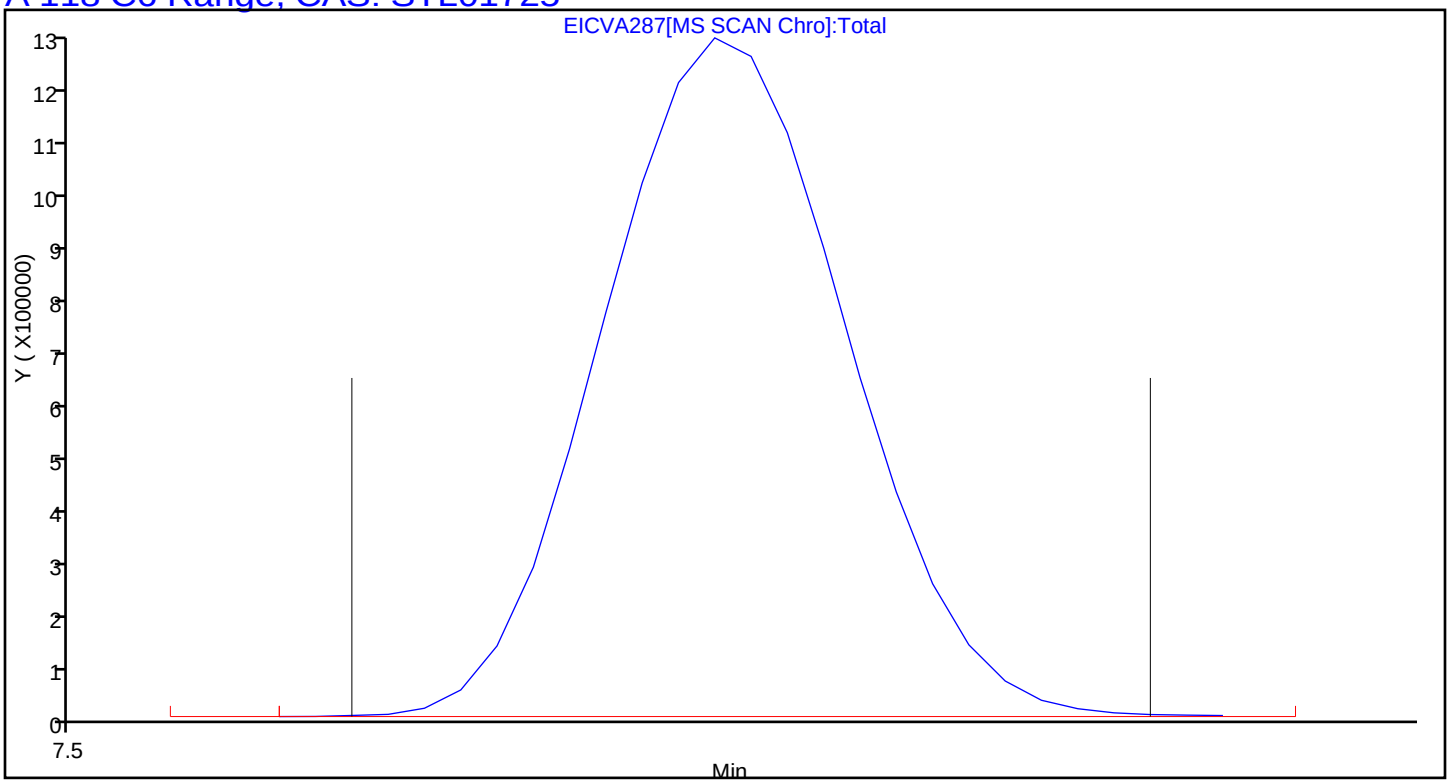


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

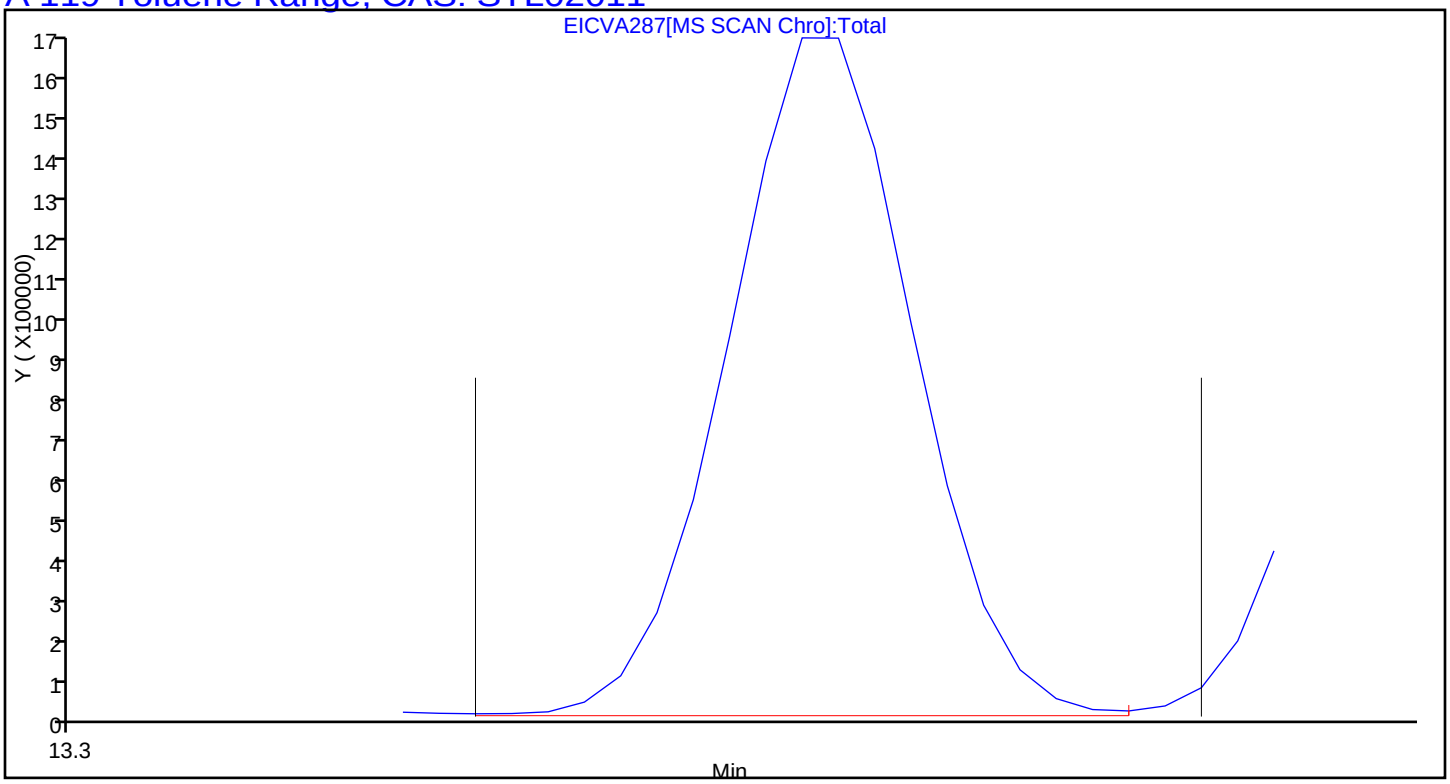


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

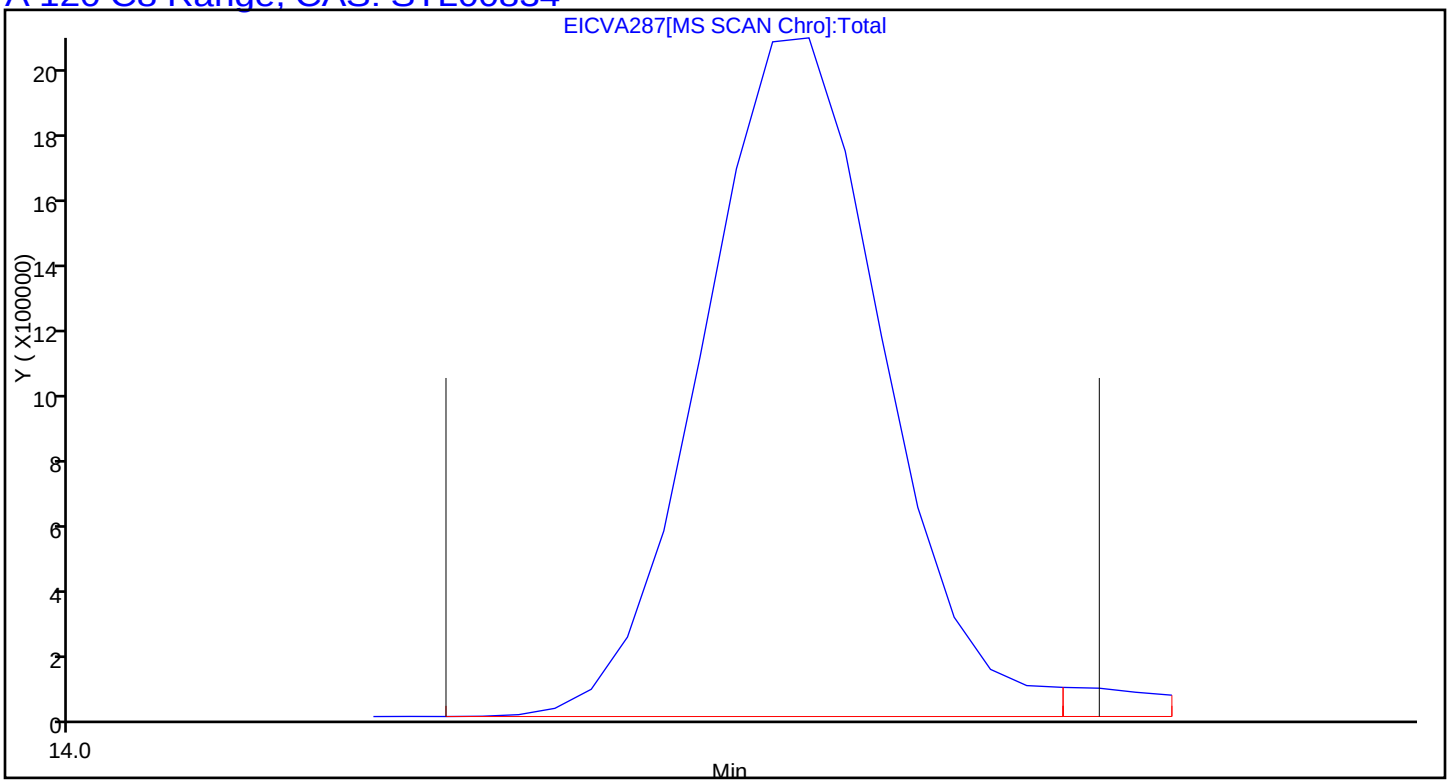


Report Date: 30-Jan-2014 13:08:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D				
Injection Date:	28-Jan-2014 18:55:30	Instrument ID:	ME		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L8
Misc. Info.: E012814I,TO155,140-0000390-009
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

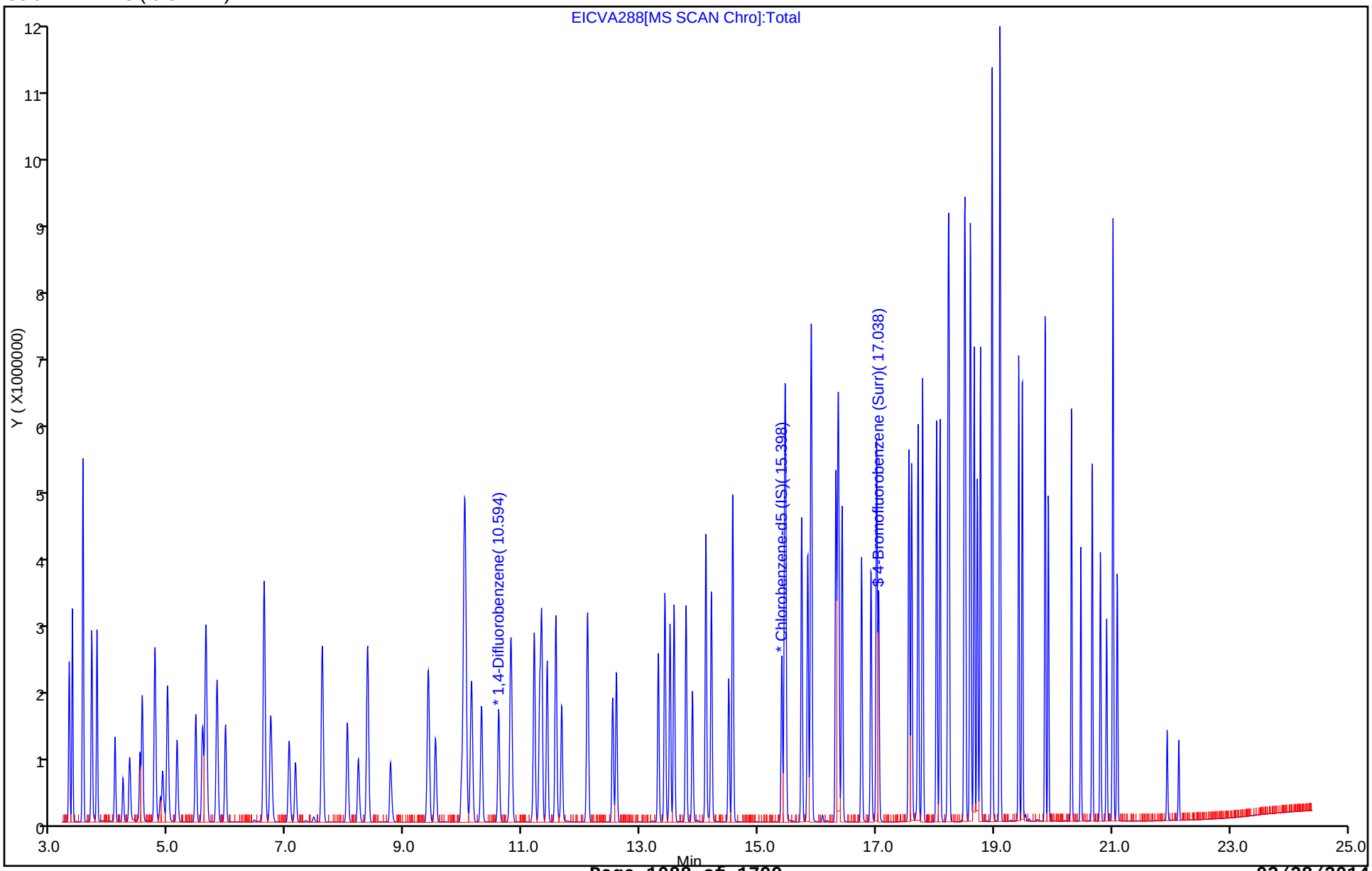
Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

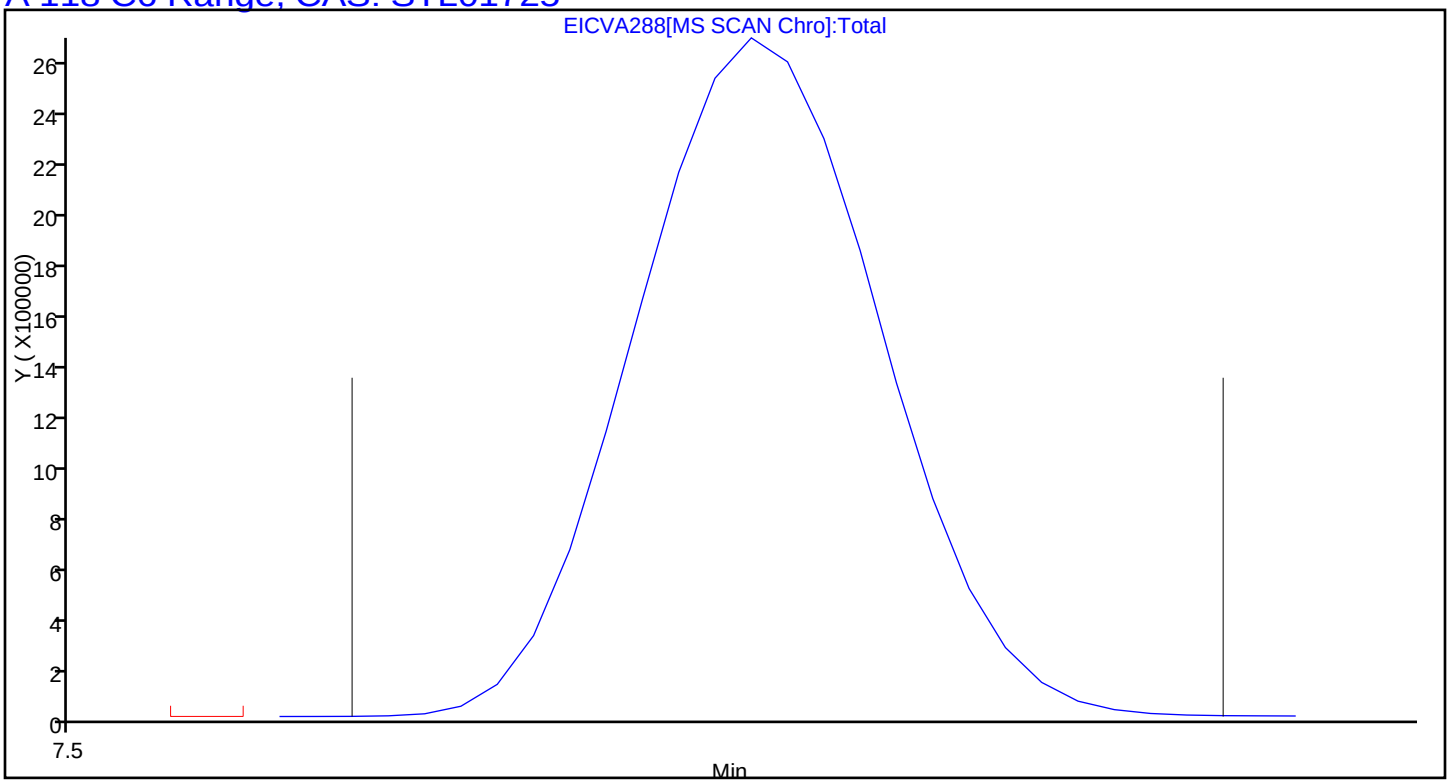


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

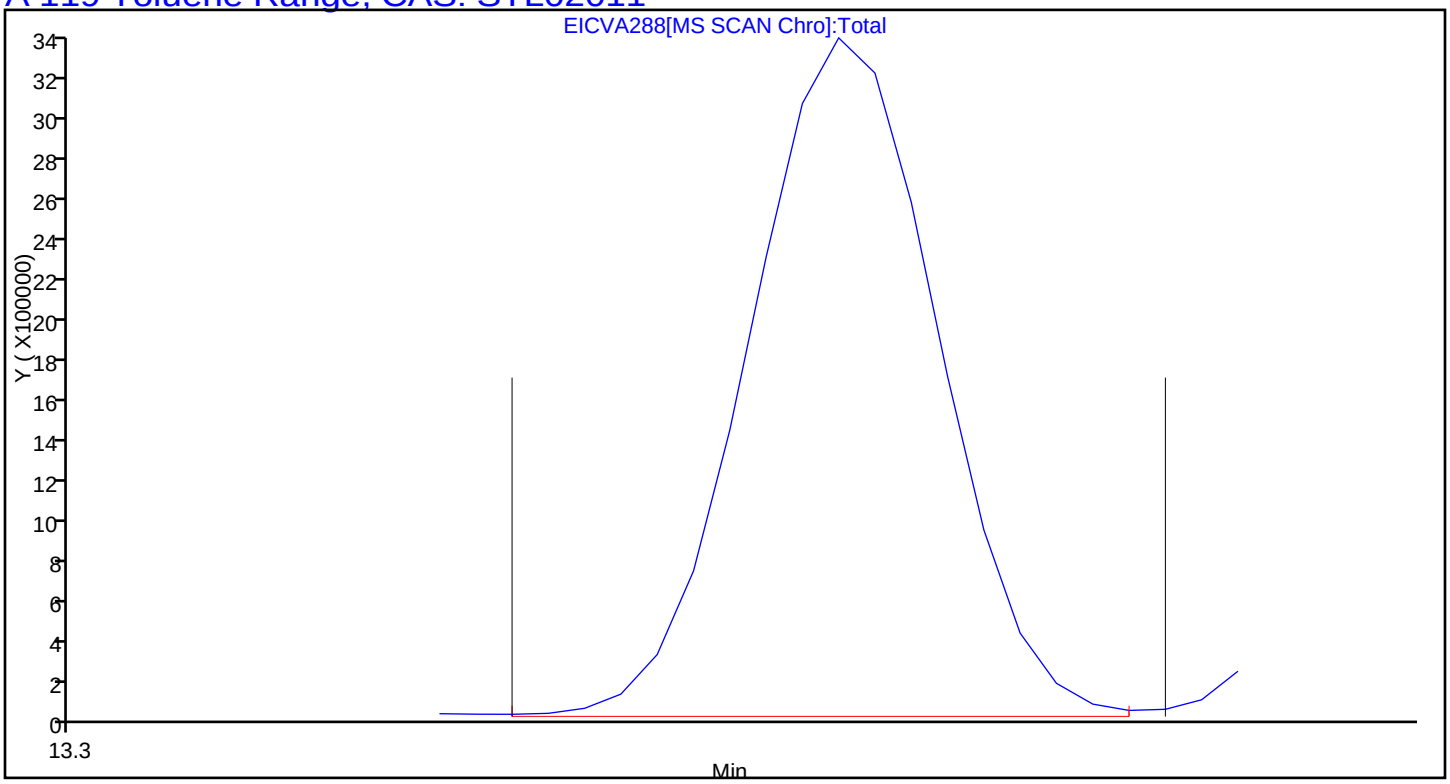


Report Date: 30-Jan-2014 13:10:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

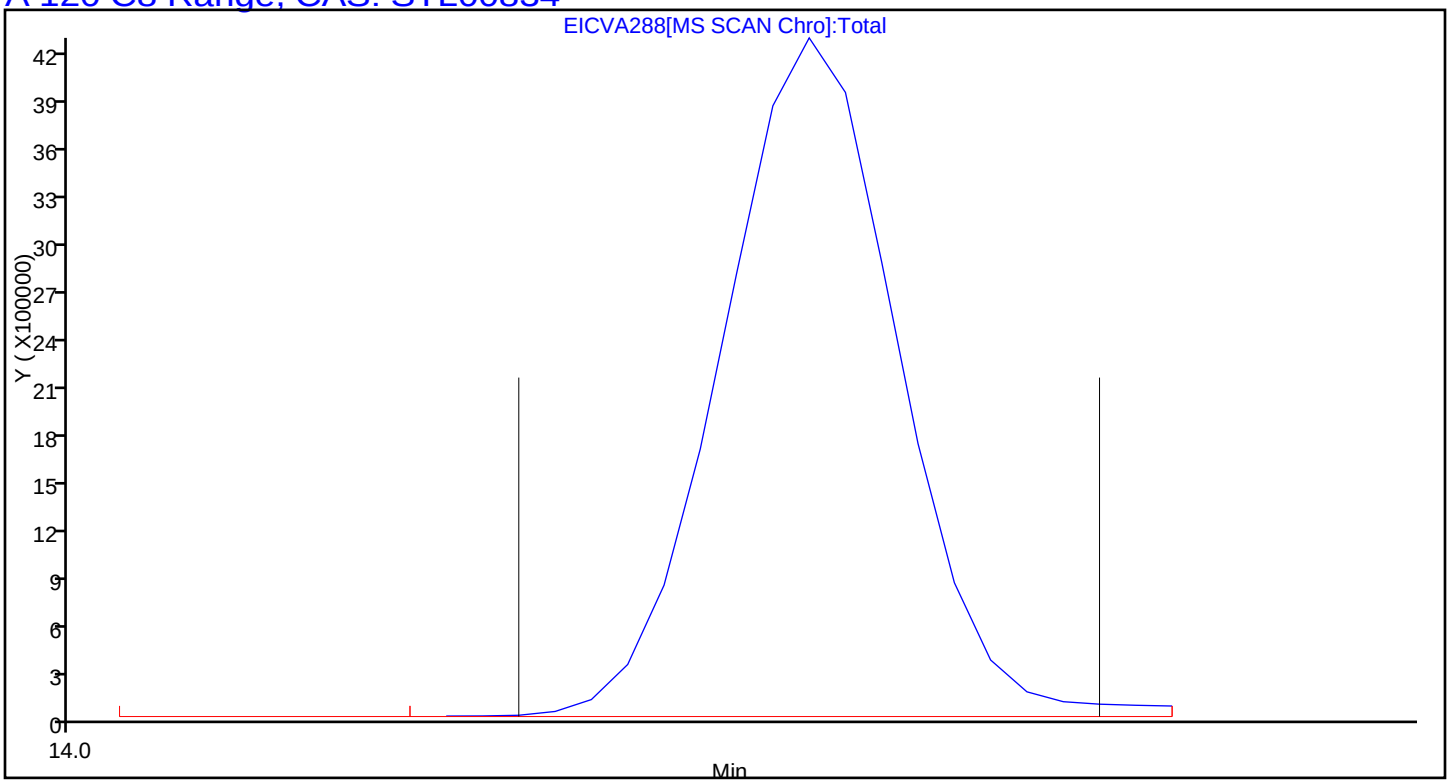


Report Date: 30-Jan-2014 13:10:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D				
Injection Date:	28-Jan-2014 19:40:30	Instrument ID:	ME		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ical2,1,1,6,,IC L9
Misc. Info.: E012814I,TO155,140-0000390-010
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub1

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: gosss Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

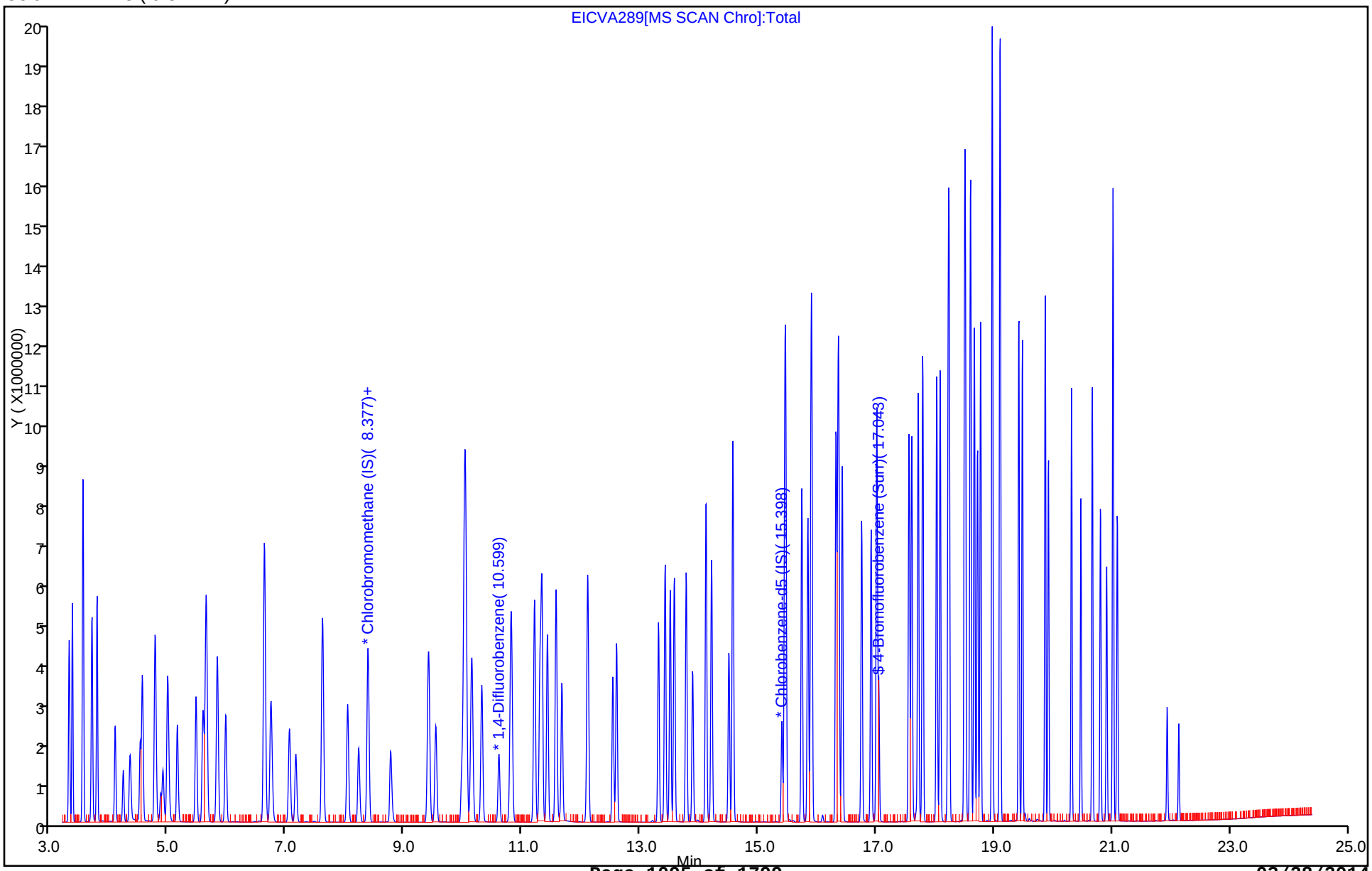
Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

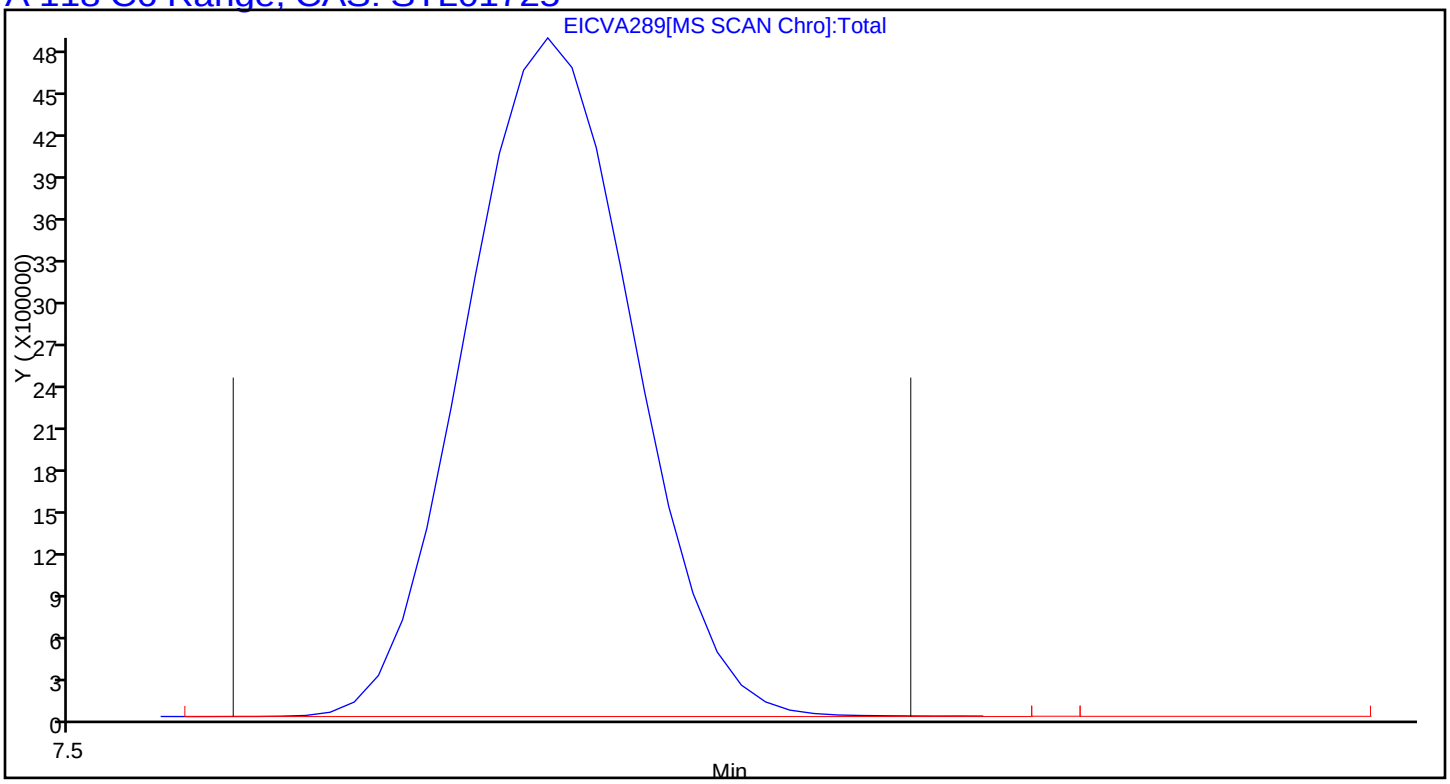


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

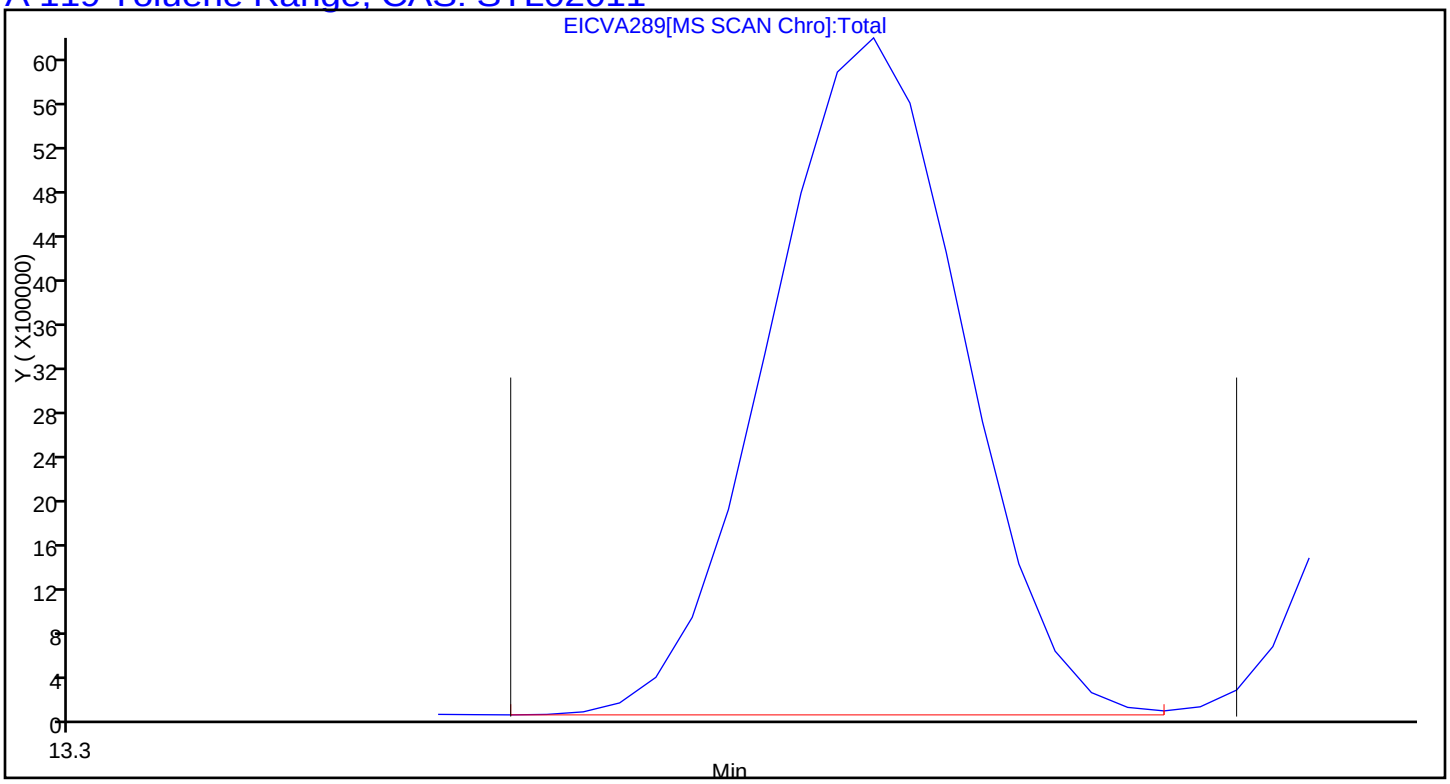


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 119 Toluene Range, CAS: STL02011

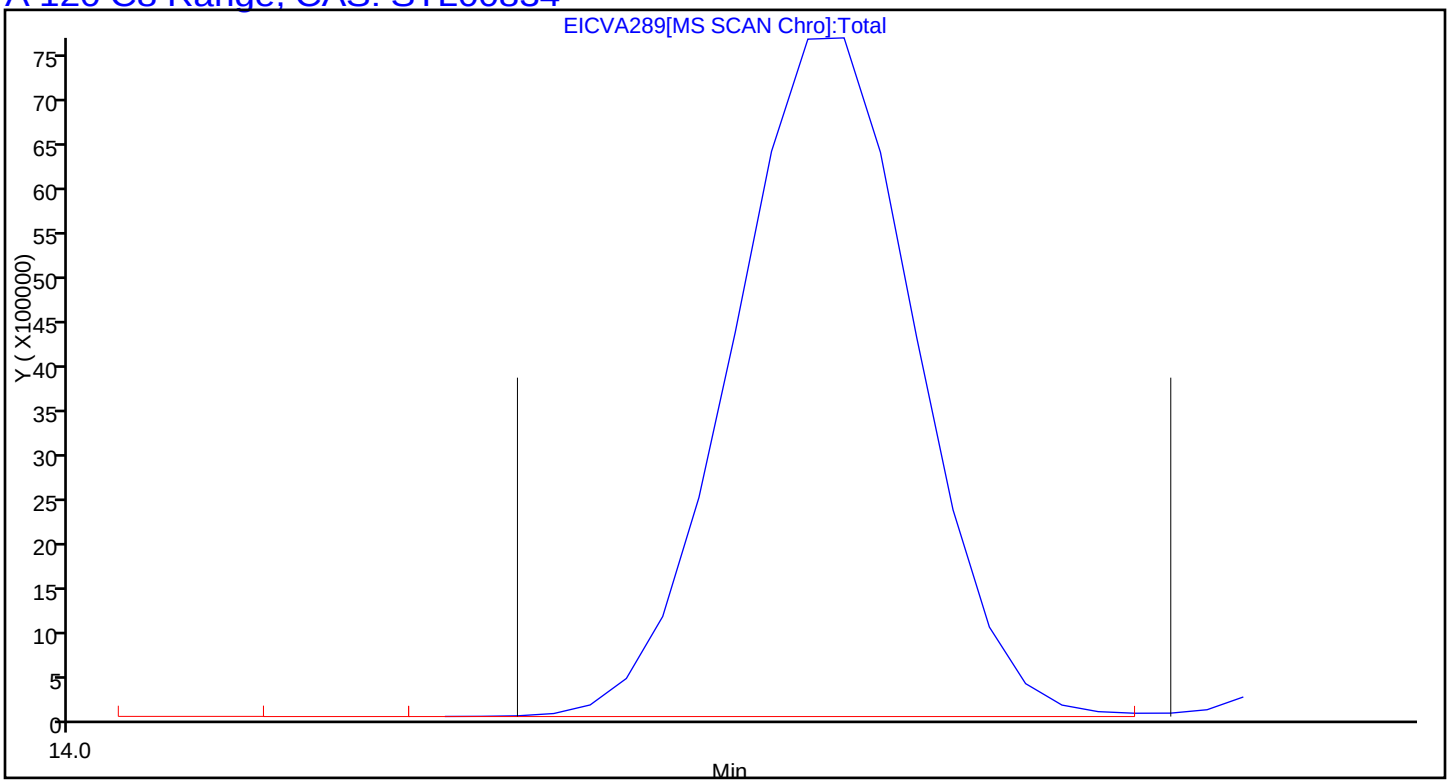


Report Date: 30-Jan-2014 13:08:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Injection Date:	28-Jan-2014 20:25:30	Instrument ID:	ME		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 120 C8 Range, CAS: STL00834



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	+++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave		0.4128				14.0		30.0			
Propene	+++++ 1.1609	+++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave		1.2265				14.0		30.0			
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave		3.9621				7.4		30.0			
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave		0.4501				13.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave		2.9902				6.8		30.0			
Acetaldehyde	+++++ 0.3869	+++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave		0.3947				16.0		40.0			
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave		1.4829				8.8		30.0			
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave		1.0304				9.0		30.0			
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave		2.1104				14.0		30.0			
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave		1.5082				8.2		30.0			
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave		0.6822				8.1		30.0			
Ethanol	+++++ 0.3202	+++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave		0.3211				11.0		40.0			
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave		1.2827				6.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989				13.0		30.0			
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807				6.7		30.0			
Acrolein	+++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266				18.0		30.0			
Acetonitrile	+++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607				12.0		30.0			
Acetone	+++++ 0.5780	+++++ 0.3424	+++++ 0.3699	0.7210 +++++	0.8316	Ave		0.5686				38.0	*	30.0			
Isopropyl alcohol	+++++ 1.4403	+++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014				7.8		30.0			
Pentane	+++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152				7.7		30.0			
Ethyl ether	+++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466				13.0		30.0			
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230				7.9		30.0			
tert-Butyl alcohol	+++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495				12.0		30.0			
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119				6.2		30.0			
Methylene Chloride	+++++ 1.0284	+++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701				14.0		30.0			
3-Chloropropene	+++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131				17.0		30.0			
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629				7.3		30.0			
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526				9.5		30.0			
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866				12.0		40.0			
Methyl tert-butyl ether	+++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415				9.8		30.0			
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108				11.0		30.0			
Vinyl acetate	+++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.3964	+++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786				7.5		30.0			
C6 Range	+++++ 11.457	+++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678				11.0		30.0			
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754				12.0		30.0			
cis-1,2-Dichloroethene	+++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547				11.0		30.0			
Ethyl acetate	+++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490				11.0		30.0			
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307				13.0		30.0			
Tetrahydrofuran	+++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265				13.0		30.0			
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293				10.0		30.0			
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103				8.5		30.0			
1-Butanol	+++++ 0.0758	+++++ 0.0850	+++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874				14.0		30.0			
Benzene	+++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863				9.9		30.0			
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354				6.0		30.0			
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669				6.9		30.0			
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619				8.6		40.0			
Thiophene	+++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238				9.1		40.0			
2,2,4-Trimethylpentane	+++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718				10.0		30.0			
Heptane	+++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427				9.7		30.0			
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320				9.9		30.0			
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329				10.0		30.0			
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave		0.4844				9.4		30.0			
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave		0.0831				9.1		30.0			
Methyl methacrylate	+++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave		0.2081				13.0		30.0			
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave		0.4620				9.4		40.0			
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave		0.4193				14.0		30.0			
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave		0.3291				11.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave		0.3315				9.5		30.0			
Toluene	+++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave		0.7420				9.6		30.0			
Toluene Range	+++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave		1.8085				14.0		30.0			
1,1,2-Trichloroethane	+++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave		0.2352				8.1		30.0			
2-Methylthiophene	+++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave		0.6668				8.5		40.0			
3-Methylthiophene	+++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave		0.6690				8.4		40.0			
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave		0.2430				15.0		30.0			
C8 Range	+++++ 2.5227	+++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave		2.8024				22.0		30.0			
Octane	+++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave		0.2723				7.0		30.0			
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave		0.5191				14.0		30.0			
1,2-Dibromoethane (EDB)	+++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave		0.4030				10.0		30.0			
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave		0.3457				13.0		30.0			
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave		0.6339				12.0		30.0			
2,3-Dimethylheptane	+++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave		0.8171				14.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	+++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave		0.8196				11.0		30.0			
2-Ethylthiophene	+++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave		0.6423				10.0		40.0			
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave		0.6614				15.0		30.0			
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave		0.5146				7.7		30.0			
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave		0.4101				28.0		30.0			
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave		0.4542				19.0		30.0			
o-Xylene	+++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave		0.6705				10.0		30.0			
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave		0.5478				13.0		30.0			
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave		0.1314				14.0		30.0			
Isopropylbenzene	+++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave		0.9553				11.0		30.0			
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave		0.2519				19.0		30.0			
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave		0.2629				14.0		30.0			
4-Ethyltoluene	+++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave		0.8909				15.0		30.0			
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave		0.4479				18.0		30.0			
Alpha Methyl Styrene	+++++ 0.3207	+++++ 0.3696	0.2496 0.4870	0.2079 +++++	0.2910	Ave		0.3209				31.0	*	30.0			
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave		0.5485				12.0		30.0			
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave		0.8748				17.0		30.0			
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave		0.7768				18.0		30.0			
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave		1.1401				16.0		30.0			
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave		0.5106				24.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	+++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave		0.5802				25.0		30.0			
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave		0.4752				26.0		30.0			
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave		0.9141				18.0		30.0			
1,2,3-Trimethylbenzene	+++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave		0.6330				15.0		40.0			
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave		0.7225				11.0		40.0			
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave		0.4994				25.0		30.0			
Indane	+++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave		0.7098				21.0		40.0			
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave		0.8482				19.0		30.0			
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 +++++	0.5474	Ave		0.6202				25.0		40.0			
Undecane	+++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave		0.5525				14.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave		0.8571				21.0		40.0			
1,2,4,5-Tetramethylbenzene	+++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 +++++	0.7884	Ave		0.8611				20.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 +++++	0.4957	Ave		0.5621				18.0		40.0			
1,2,3,4-Tetramethylbenzene	+++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 +++++	0.6223	Ave		0.6963				18.0		40.0			
Dodecane	+++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave		0.5721				11.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 +++++	0.1860	Ave		0.2222				28.0		30.0			
Naphthalene	+++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave		0.6294				26.0		30.0			
Benzo(b)thiophene	+++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave		0.4265				30.0		40.0			
Hexachlorobutadiene	+++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave		0.4540				24.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave		0.2871				22.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	+++++ 0.0679	0.0753 0.0753	0.0599 0.1029	0.0578 0.0298	0.0666	Ave		0.0669				31.0		40.0			
1-Methylnaphthalene	+++++ 0.0730	0.0816 0.0750	0.0695 0.0927	0.0679 0.0189	0.0735	Ave		0.0690				31.0		40.0			
4-Bromofluorobenzene (Surr)	0.6600 0.7176	0.6934 0.7283	0.7134 0.7225	0.6897 0.7235	0.7189	Ave		0.7075				3.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	+++++ 65895	3504 127336	7250 267278	13846 505684	32729	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 203864	+++++ 380299	22123 770175	44922 1458925	107699	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 339724	+++++ 590590	35881 1285979	64164 2205919	194092	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 281128	+++++ 536616	27045 988374	58098 1841235	144711	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	+++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 53042	2906 99357	5224 250642	8002 437980	27013	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 59141	2885 106520	6174 251140	11328 477609	29505	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 101503	+++++ 119169	+++++ 235590	24784 +++++	72907	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 +++++	1.00
Isopropyl alcohol	CBM	Ave	+++++ 252925	+++++ 503623	24457 1005537	52512 1891993	127722	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	+++++ 37045	1358 73196	3459 151771	7244 289822	18413	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	+++++ 179455	8583 329259	17680 699710	29228 1293462	94508	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4524 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	+++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 180581	+++++ 352418	19809 670417	36329 1306630	89695	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 183622	9954 355060	20200 664240	35748 1253863	90749	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	+++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	+++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	+++++ 69610	+++++ 125222	5876 243895	11813 487204	35887	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	+++++ 2011864	+++++ 3810714	202396 7329744	410756 14110311	1022928	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 200551	8788 388357	20156 706076	35319 1451411	100896	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	+++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	+++++ 156408	7748 291715	15807 599765	27476 1179659	78446	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	+++++ 63073	+++++ 133536	+++++ 287181	14706 562689	30453	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	+++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	+++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	+++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	+++++ 191563	8567 367648	19608 706282	33732 1414497	96771	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	+++++ 169117	7159 333332	14809 682355	24813 1312475	82170	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	+++++ 234824	9630 446194	20295 879585	35040 1963516	117538	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	+++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	+++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	+++++ 166783	7143 313466	14877 586633	26153 1314579	84373	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	+++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	+++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	+++++ 1829147	+++++ 3391784	242838 6451566	360891 12490633	997149	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	+++++ 185219	8228 363887	17415 718344	31719 1469379	94899	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	+++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	+++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	+++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	+++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	+++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	+++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	+++++ 232501	+++++ 498439	14480 1265706	27470 +++++	104233	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 +++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	+++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	+++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	+++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 +++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Undecane	CBZ	Ave	+++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42402 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	+++++ 585097	24071 1242657	45438 3137565	89023 +++++	282429	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 +++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	+++++ 458134	21613 969881	37074 2444837	74166 +++++	222908	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Dodecane	CBZ	Ave	+++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 143447	6805 317385	10877 910586	21000 +++++	66621	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Naphthalene	CBZ	Ave	+++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	+++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	+++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 178007	8385 366981	14621 979161	29244 2025463	87992	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	+++++ 307709	13381 634411	21725 1671920	47754 969606	149184	+++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	+++++ 331073	14503 631891	25220 1506542	56061 616839	164584	+++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
Lims ID: IC L1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL1,,1,1,,ICAL 0.04
Misc. Info.: J031114I,TO15,,140-0000516-002
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

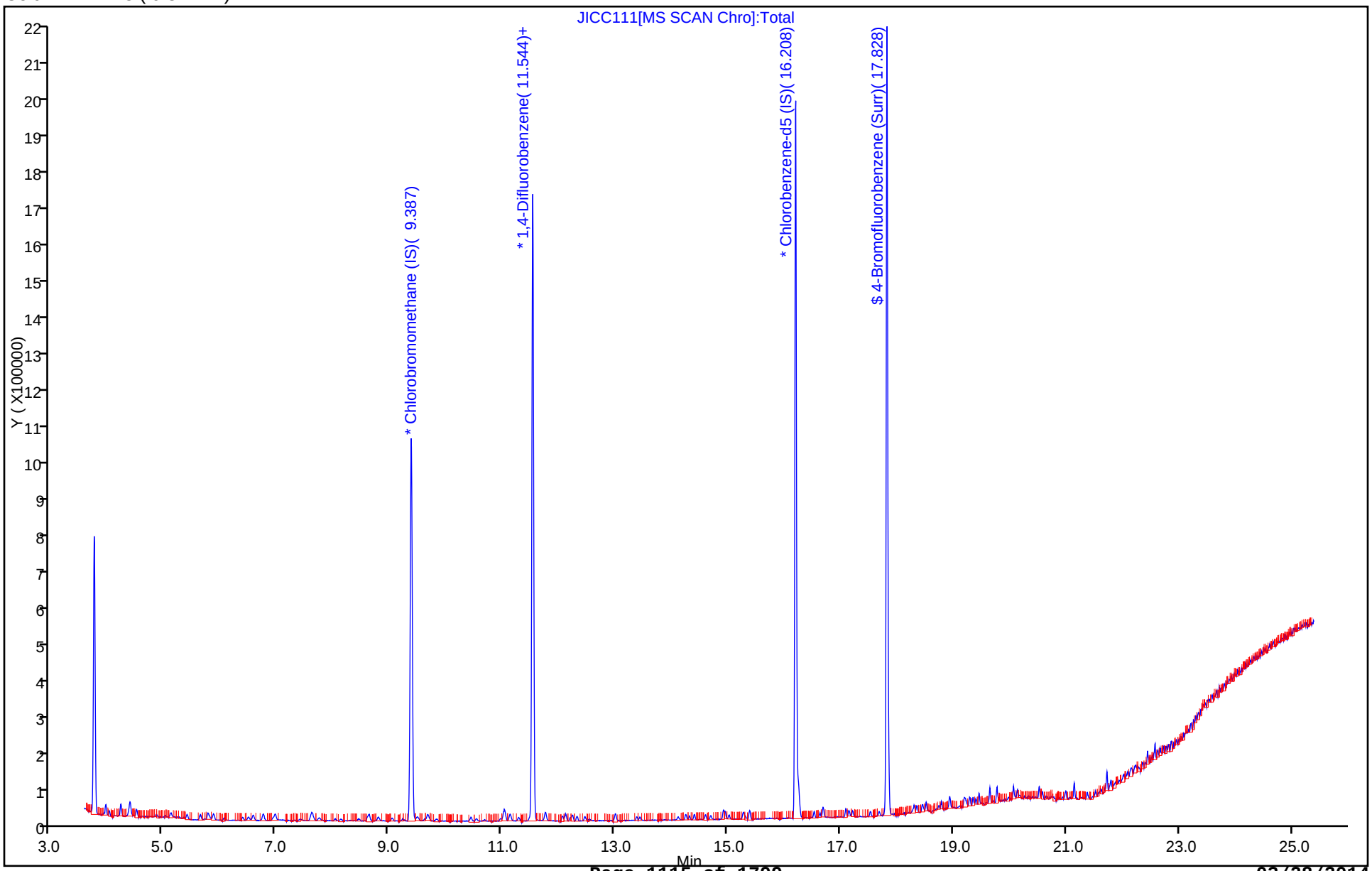
Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

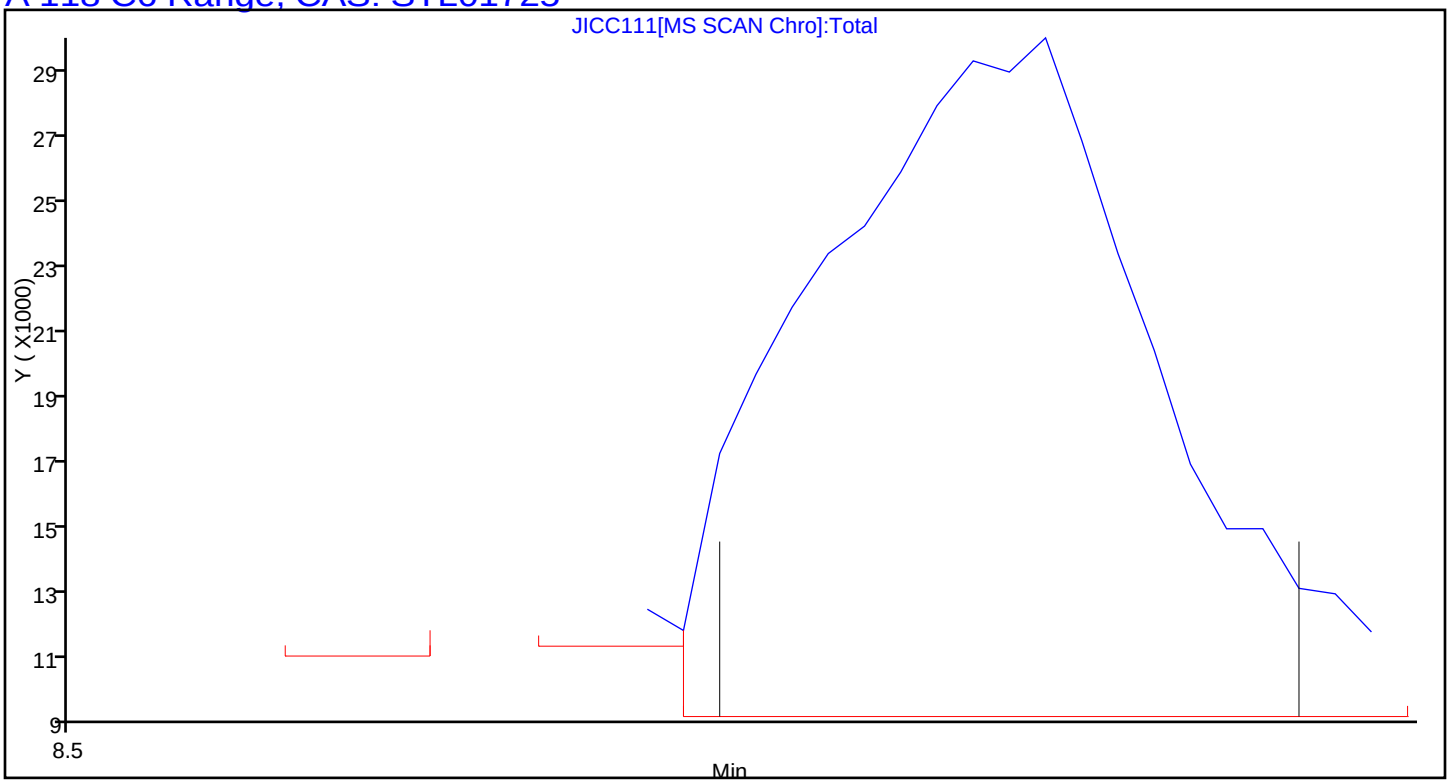


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

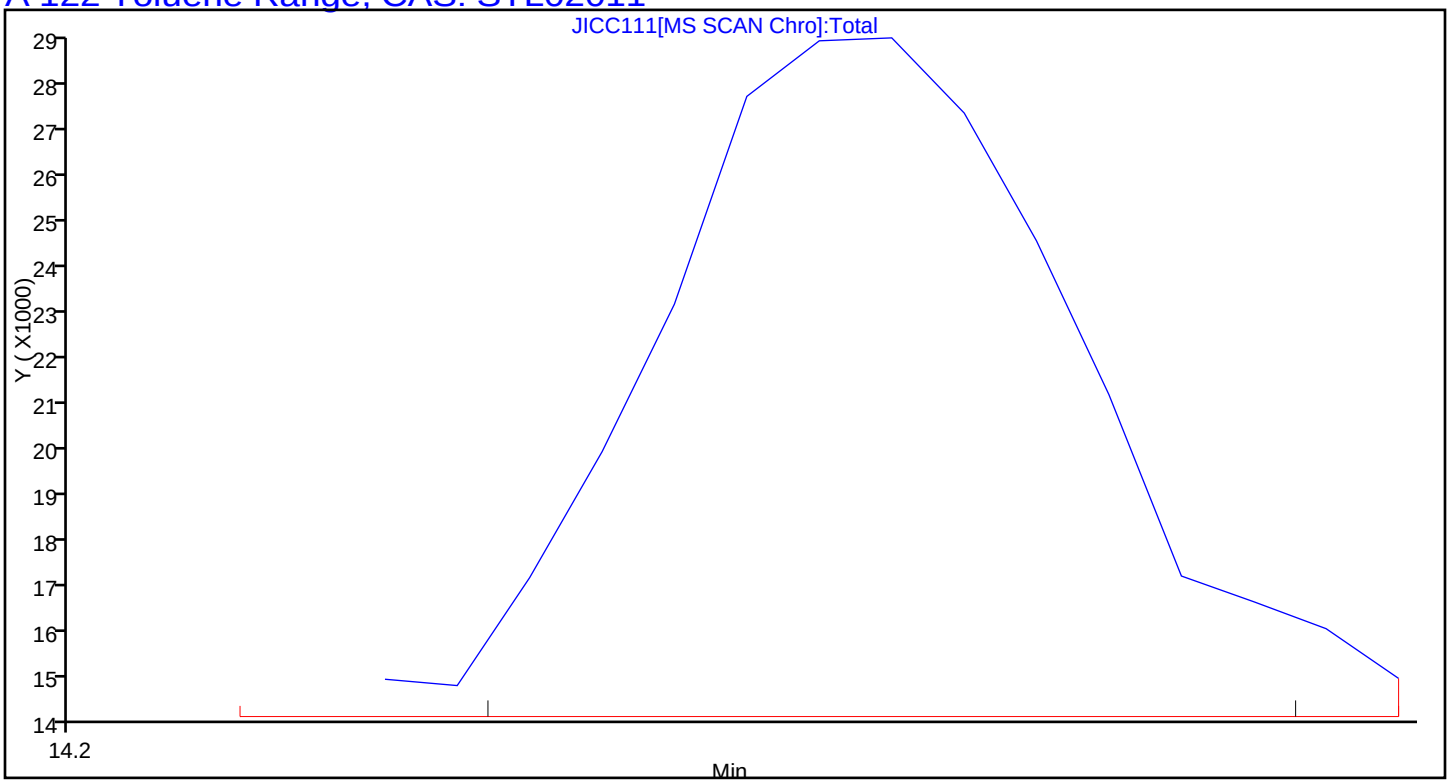


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

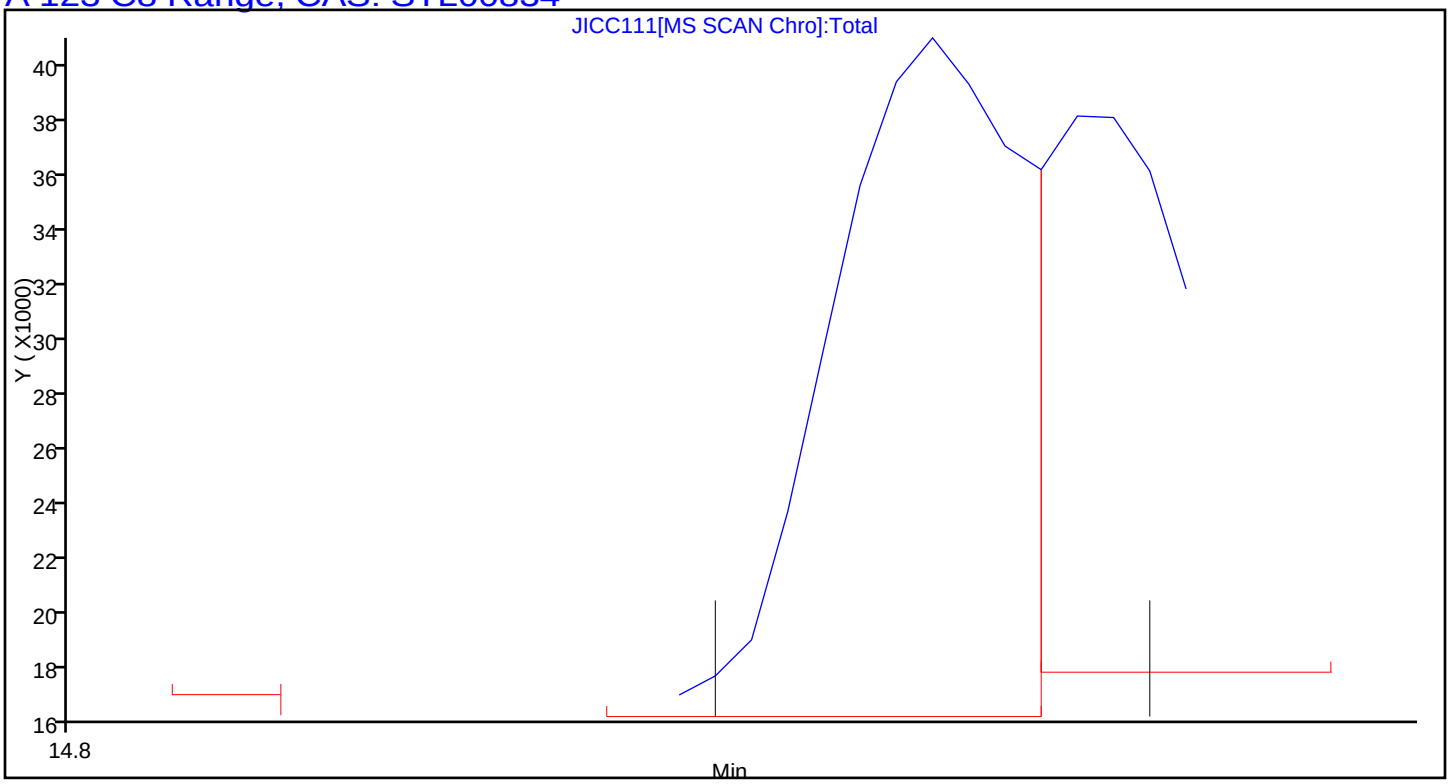


Report Date: 14-Mar-2014 14:46:12 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D				
Injection Date:	11-Mar-2014 12:40:30	Instrument ID:	MJ		
Lims ID:	IC L1	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	2
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
Lims ID: IC L2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL2,,1,2,,ICAL 0.08
Misc. Info.: J031114I,TO15,,140-0000516-003
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

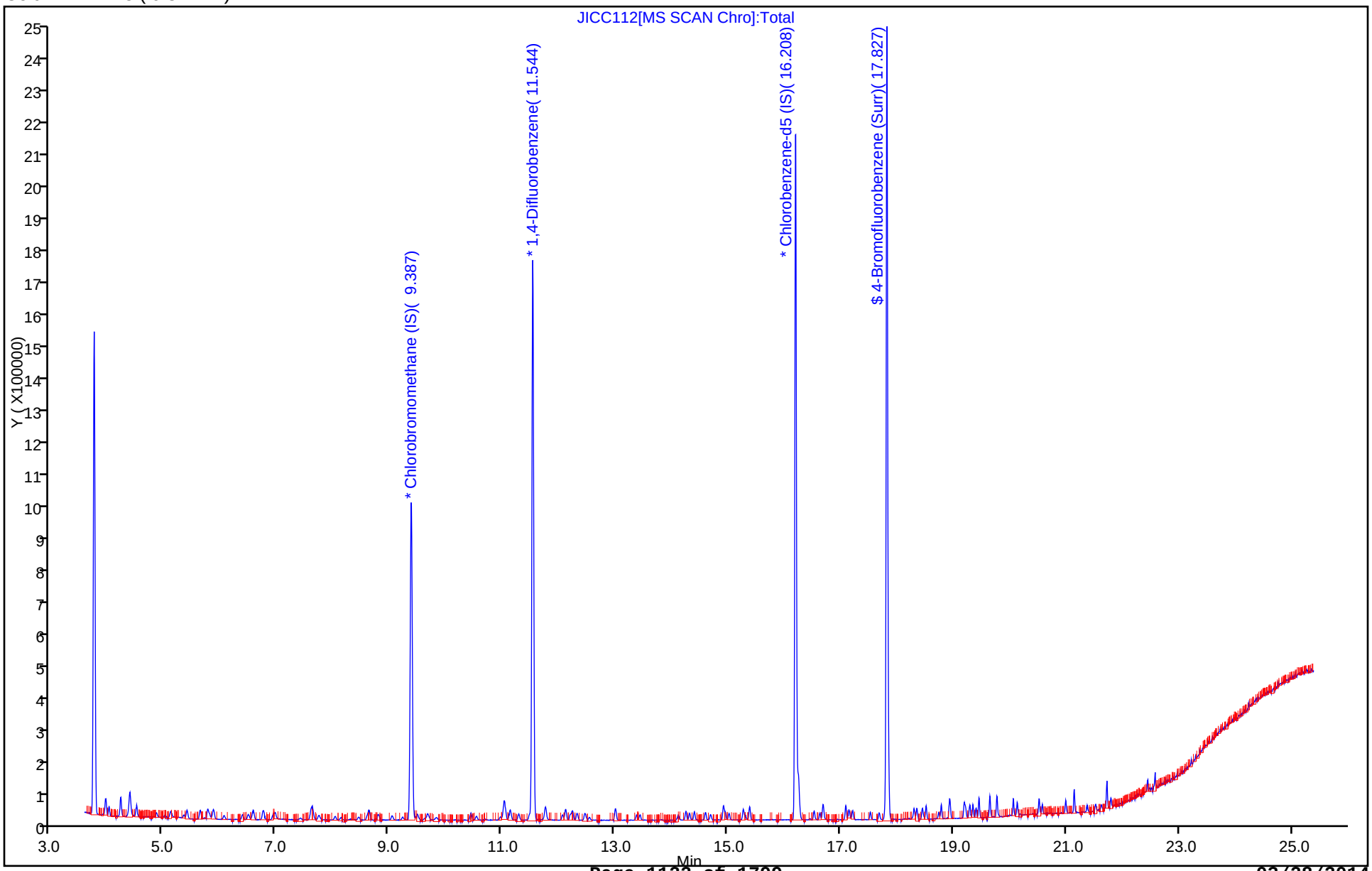
Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

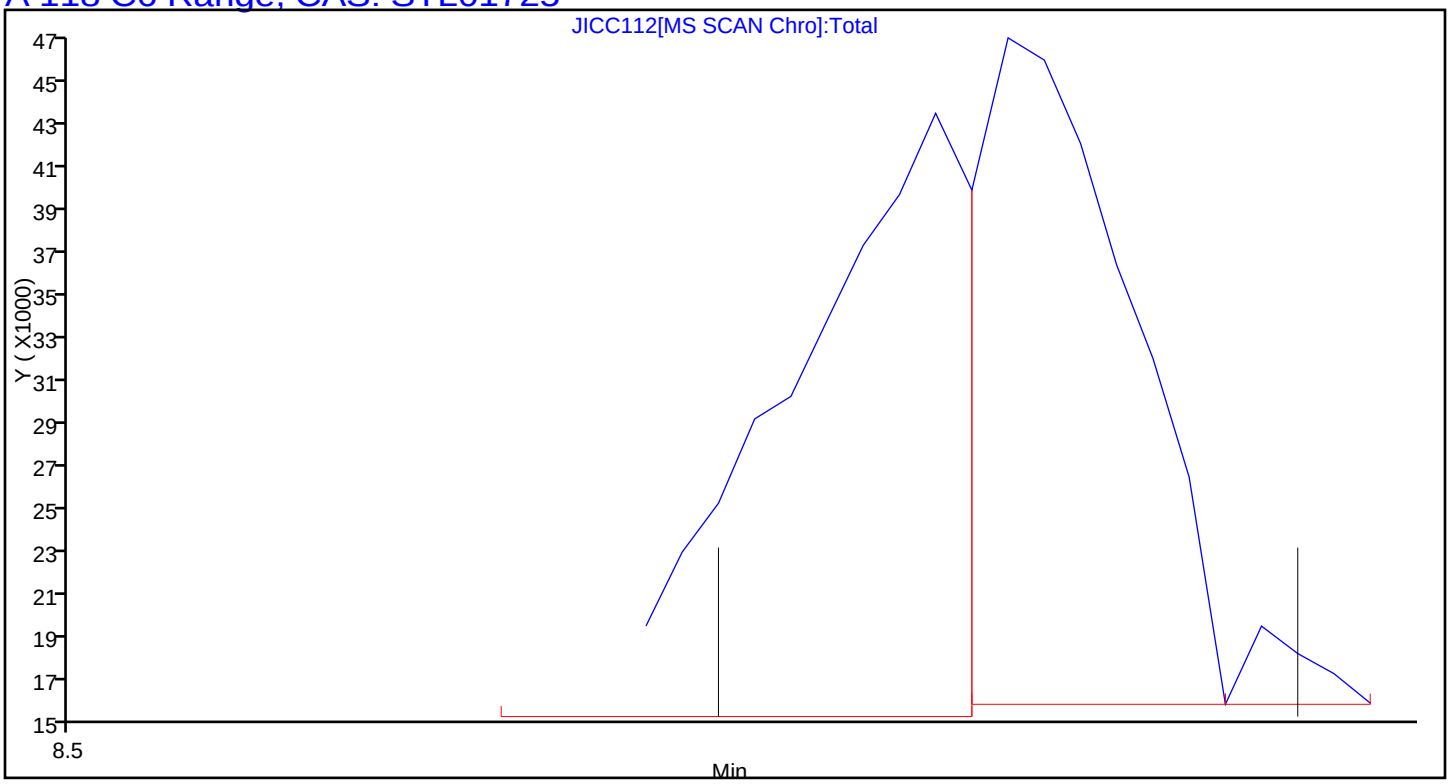


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

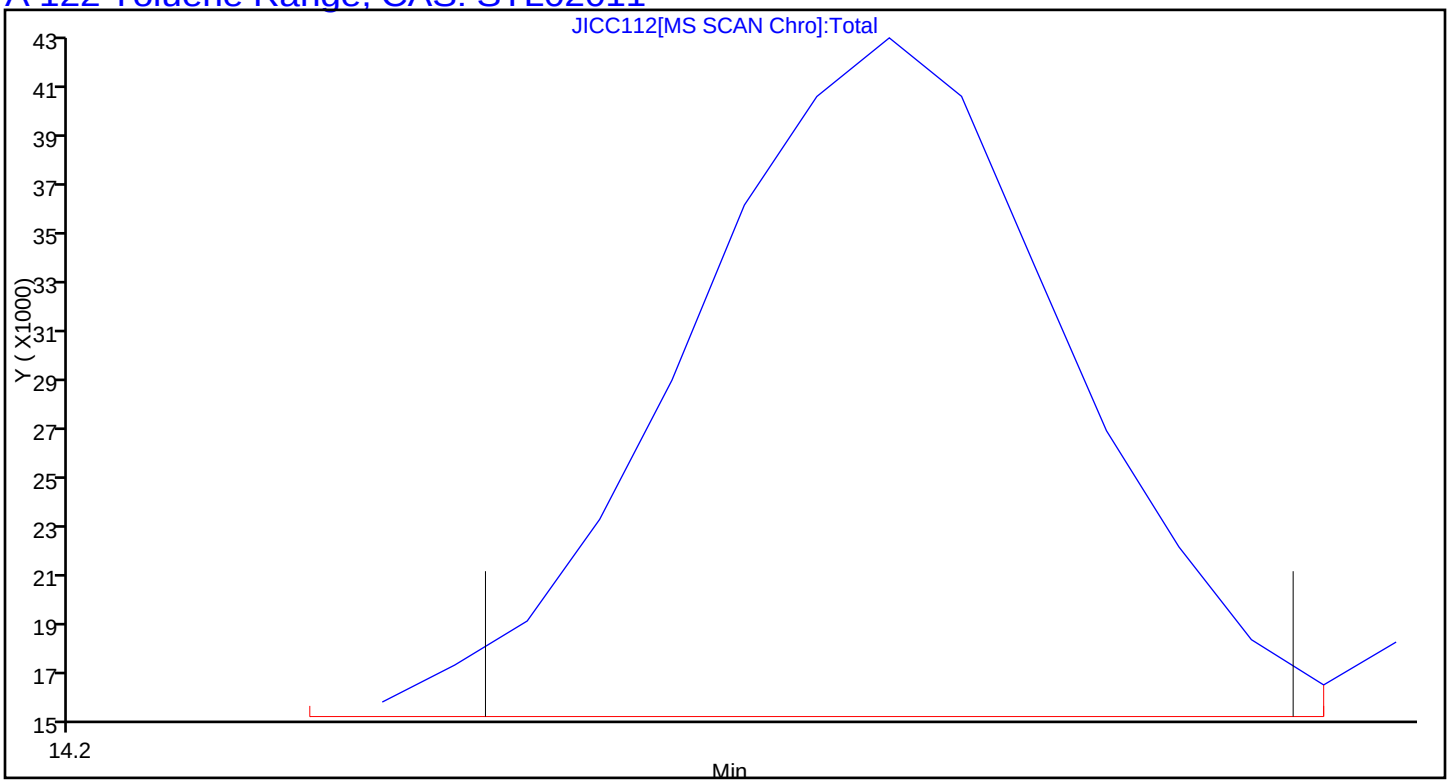


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

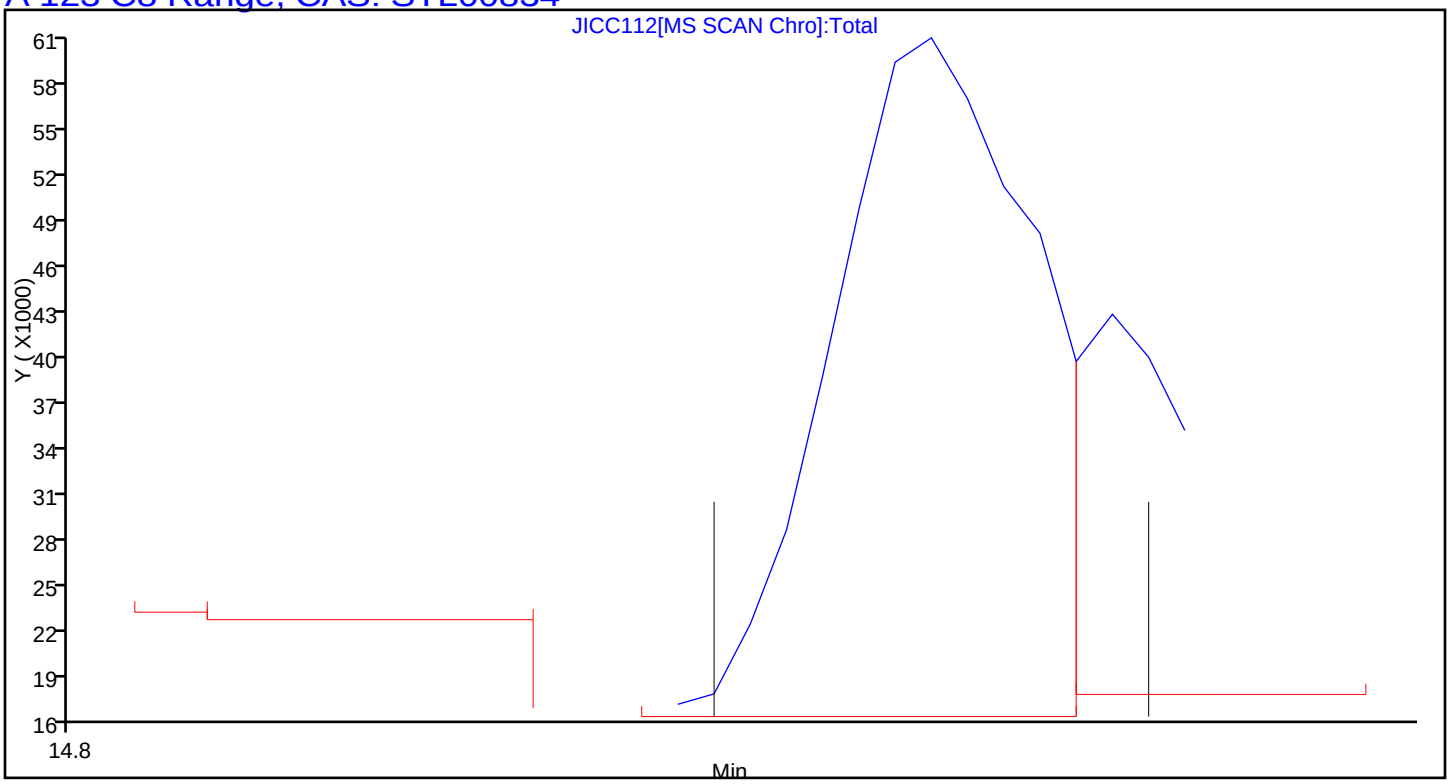


Report Date: 14-Mar-2014 14:45:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D				
Injection Date:	11-Mar-2014 13:35:30	Instrument ID:	MJ		
Lims ID:	IC L2	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL3,,1,3,,ICAL 0.16
Misc. Info.: J031114I,TO15,,140-0000516-004
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 -	8.694	0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 -	14.961	0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

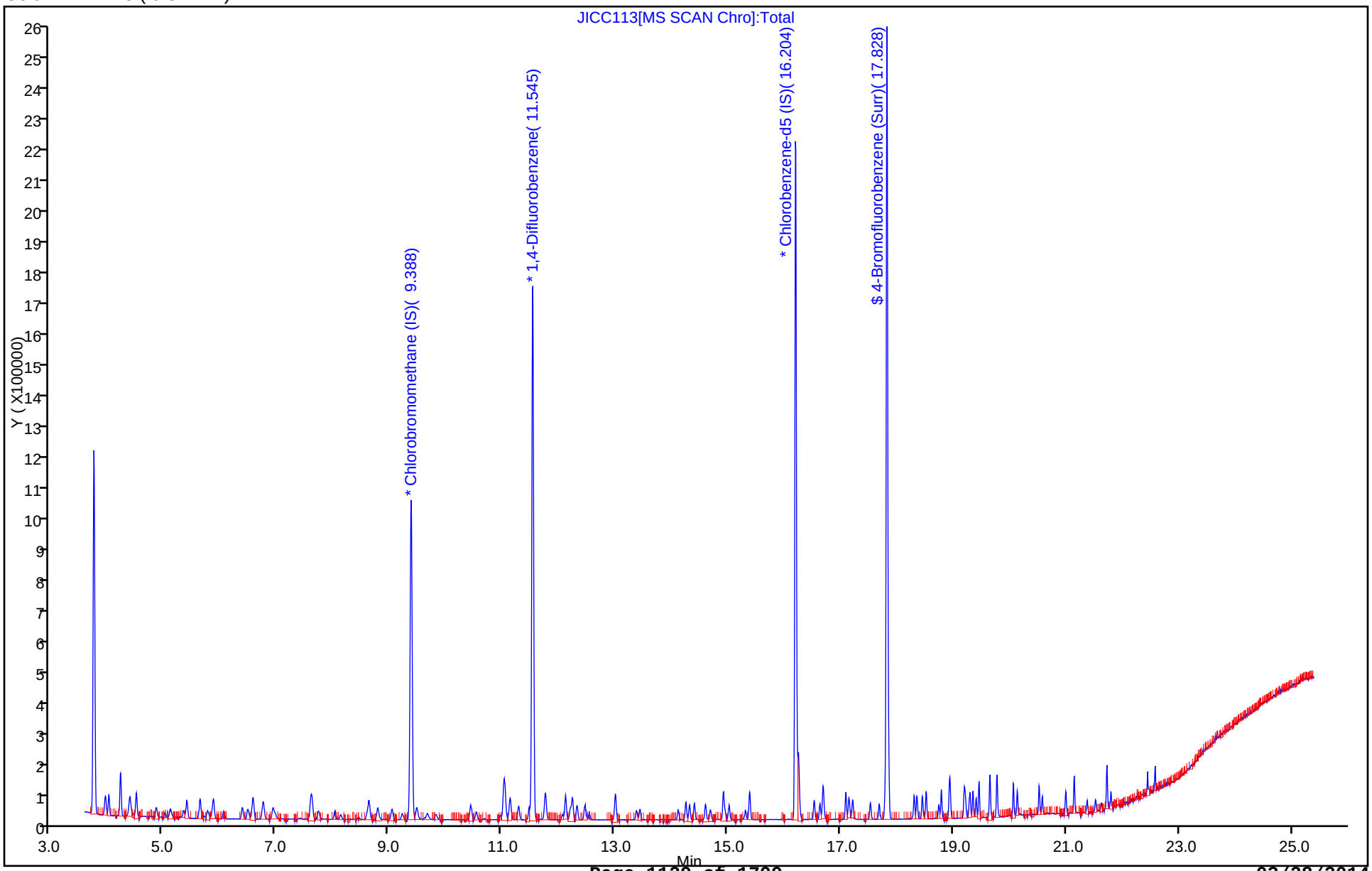
Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

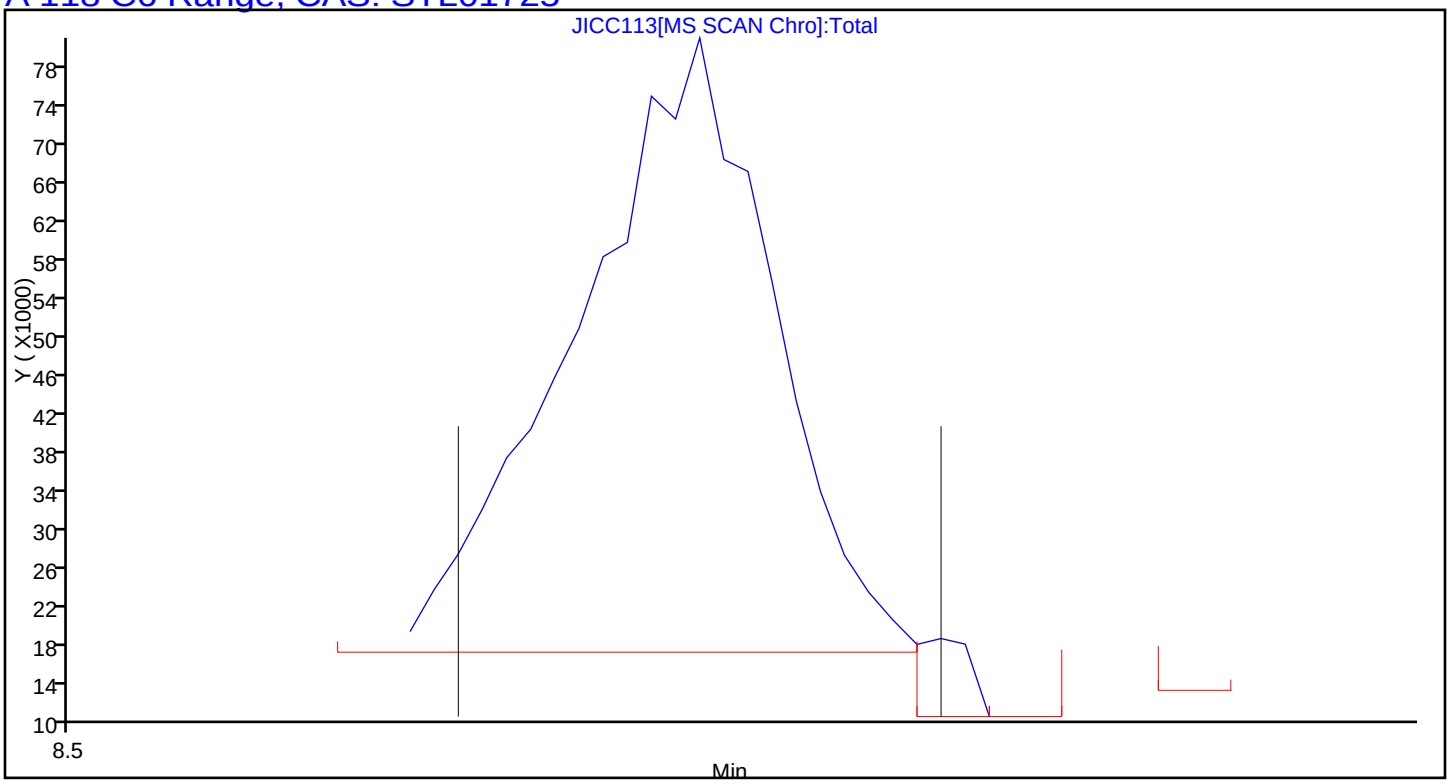


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

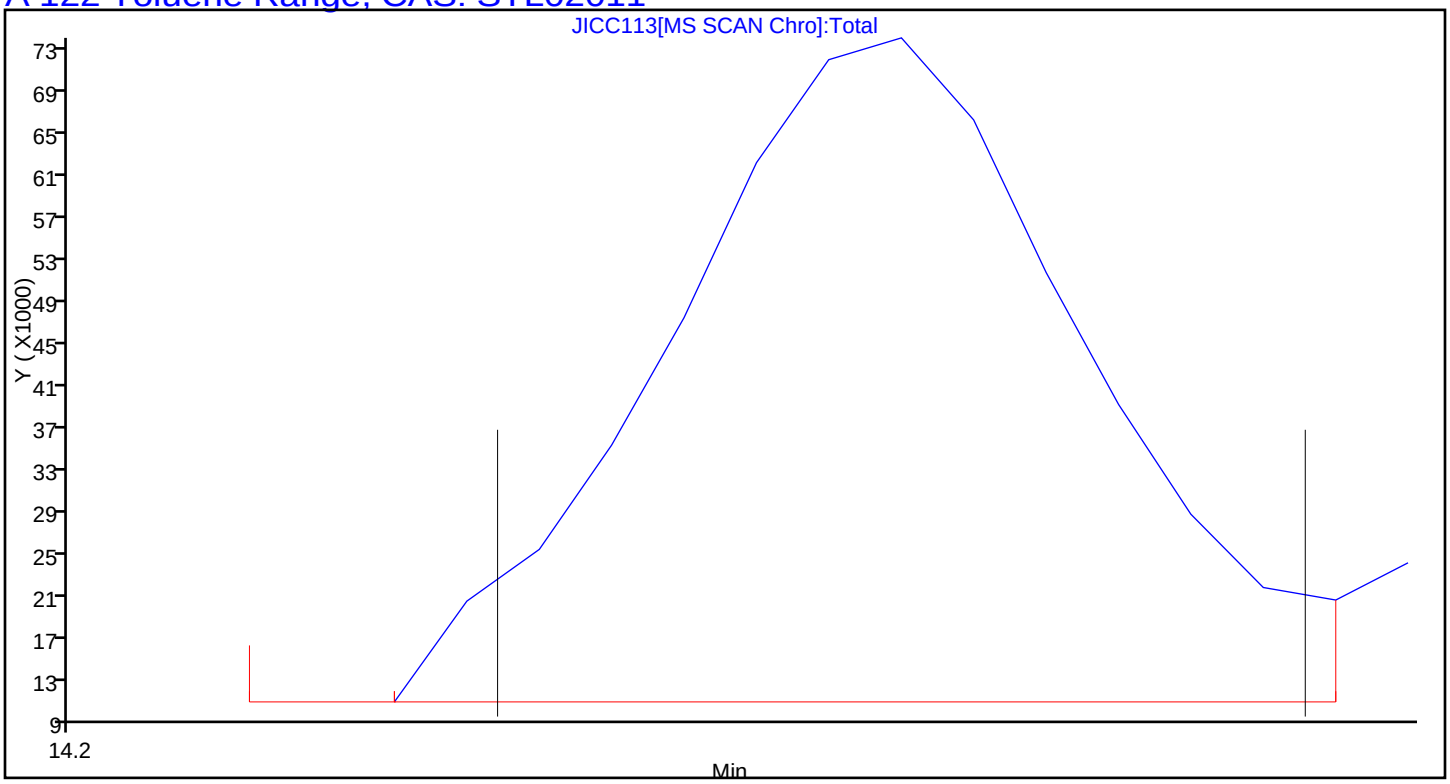


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

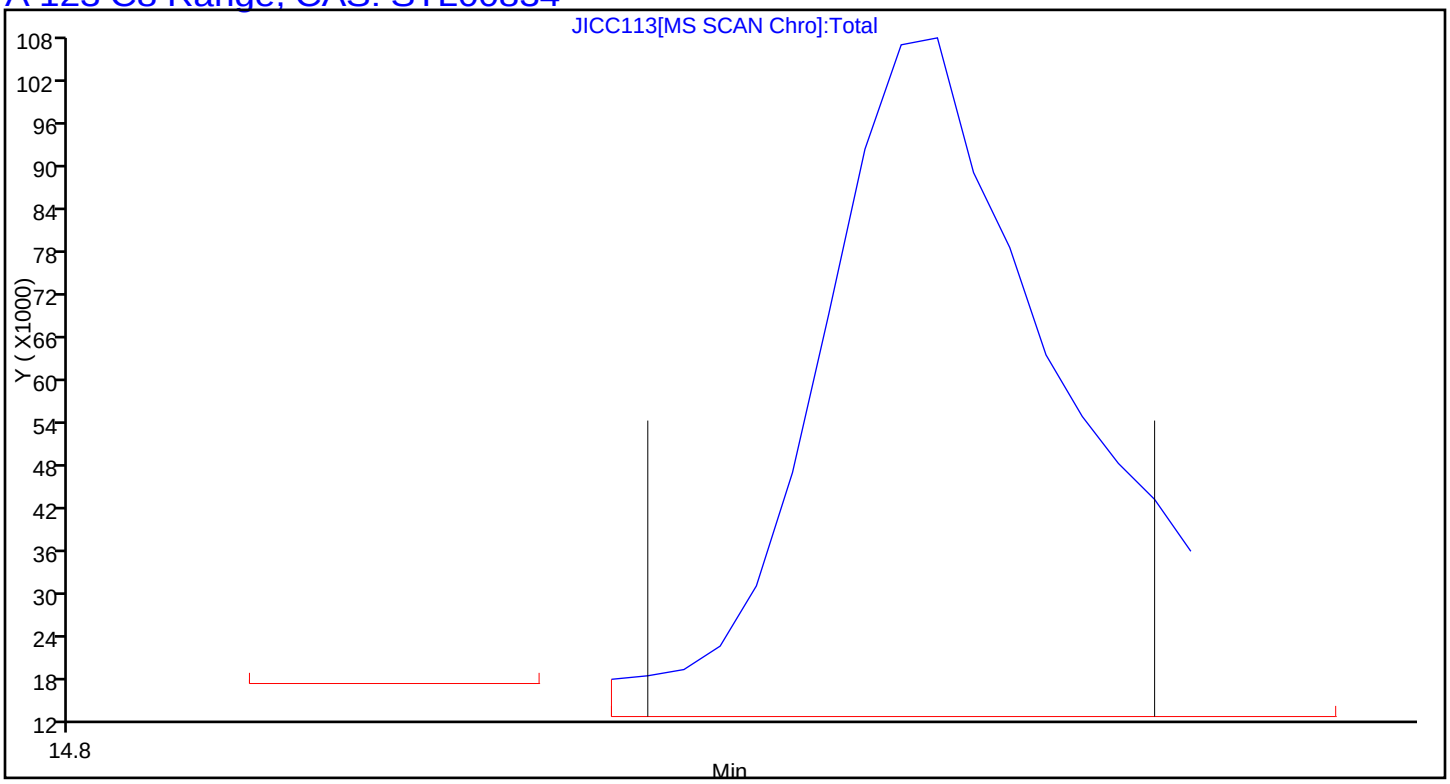


Report Date: 14-Mar-2014 14:45:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D				
Injection Date:	11-Mar-2014 14:29:30	Instrument ID:	MJ		
Lims ID:	IC L3	Lab Sample ID:	Client 140-535/4-A		
Client ID:					
Operator ID:	7126	ALS Bottle#:	9	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
Lims ID: IC L4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL4,,1,4,,ICAL 0.4
Misc. Info.: J031114I,TO15,,140-0000516-005
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 -	8.696	0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 -	14.288	0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 -	14.968	0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

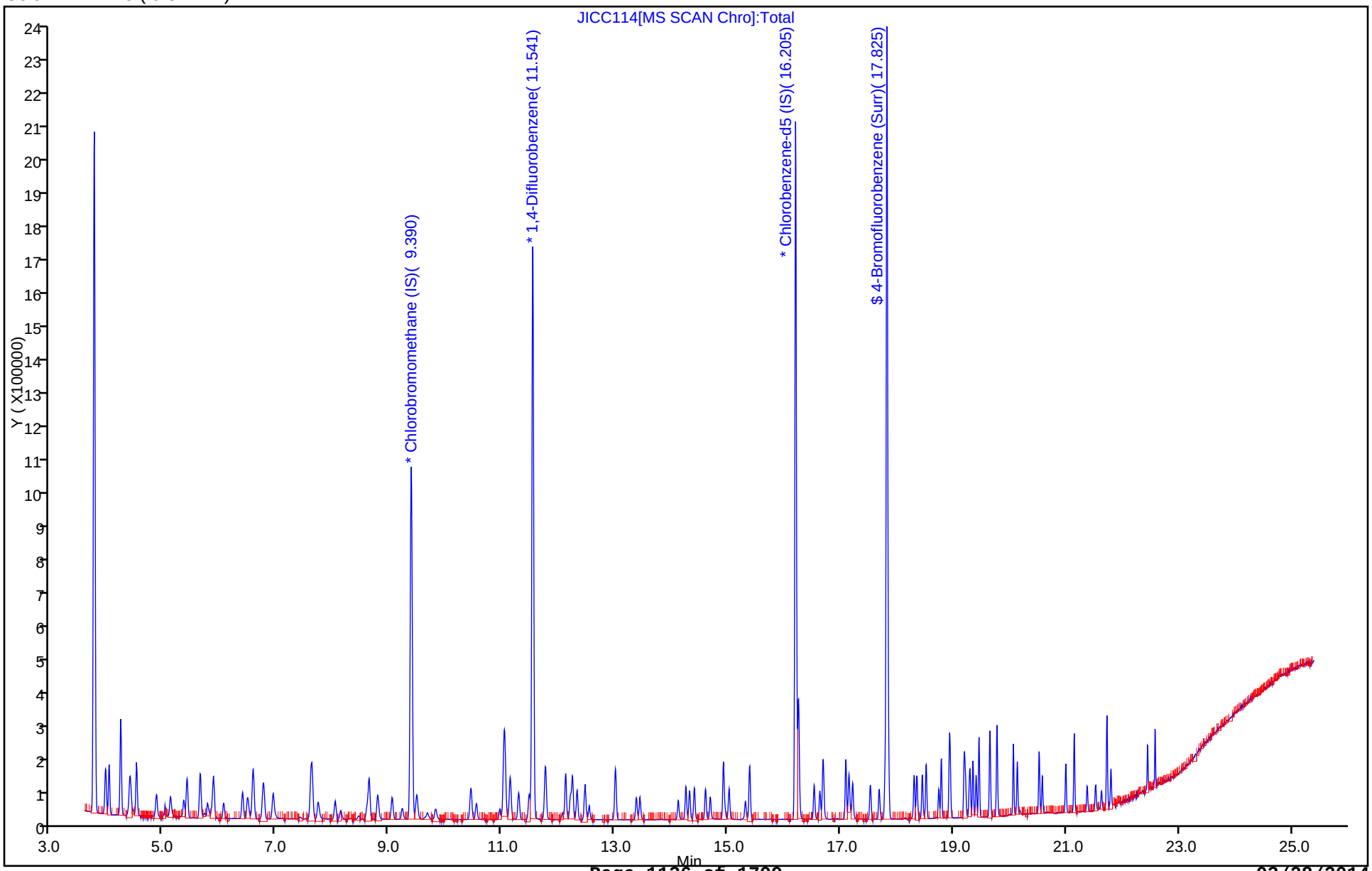
Report Date: 14-Mar-2014 14:45:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

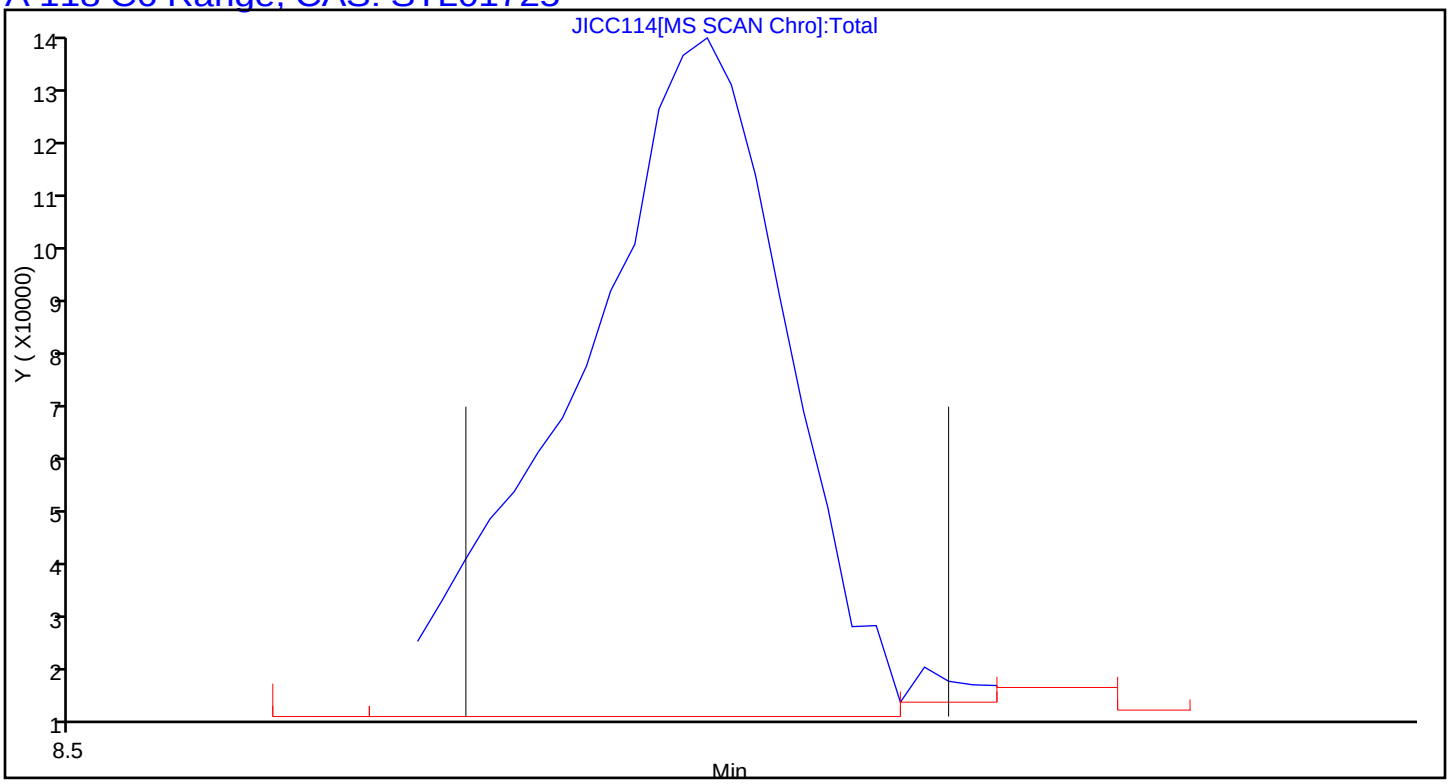


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

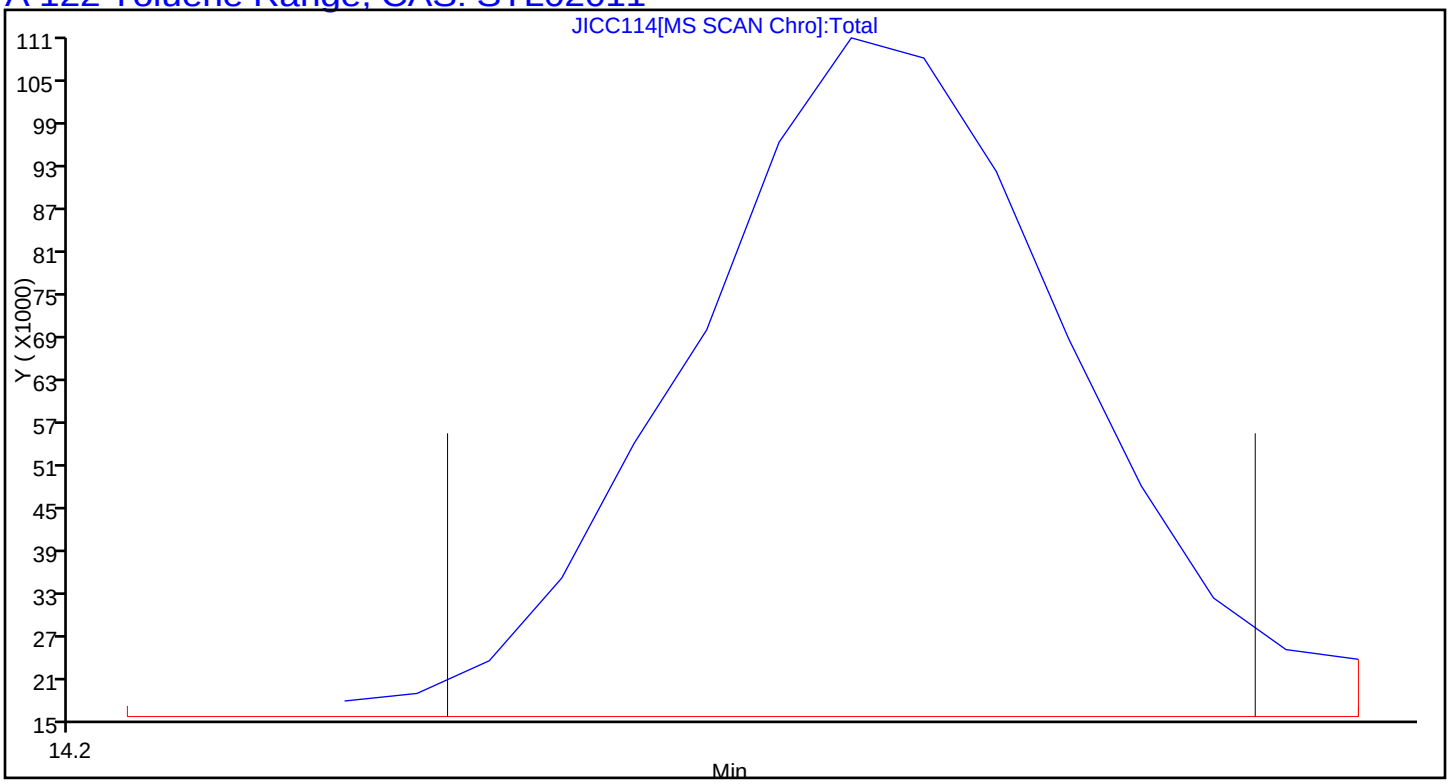


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

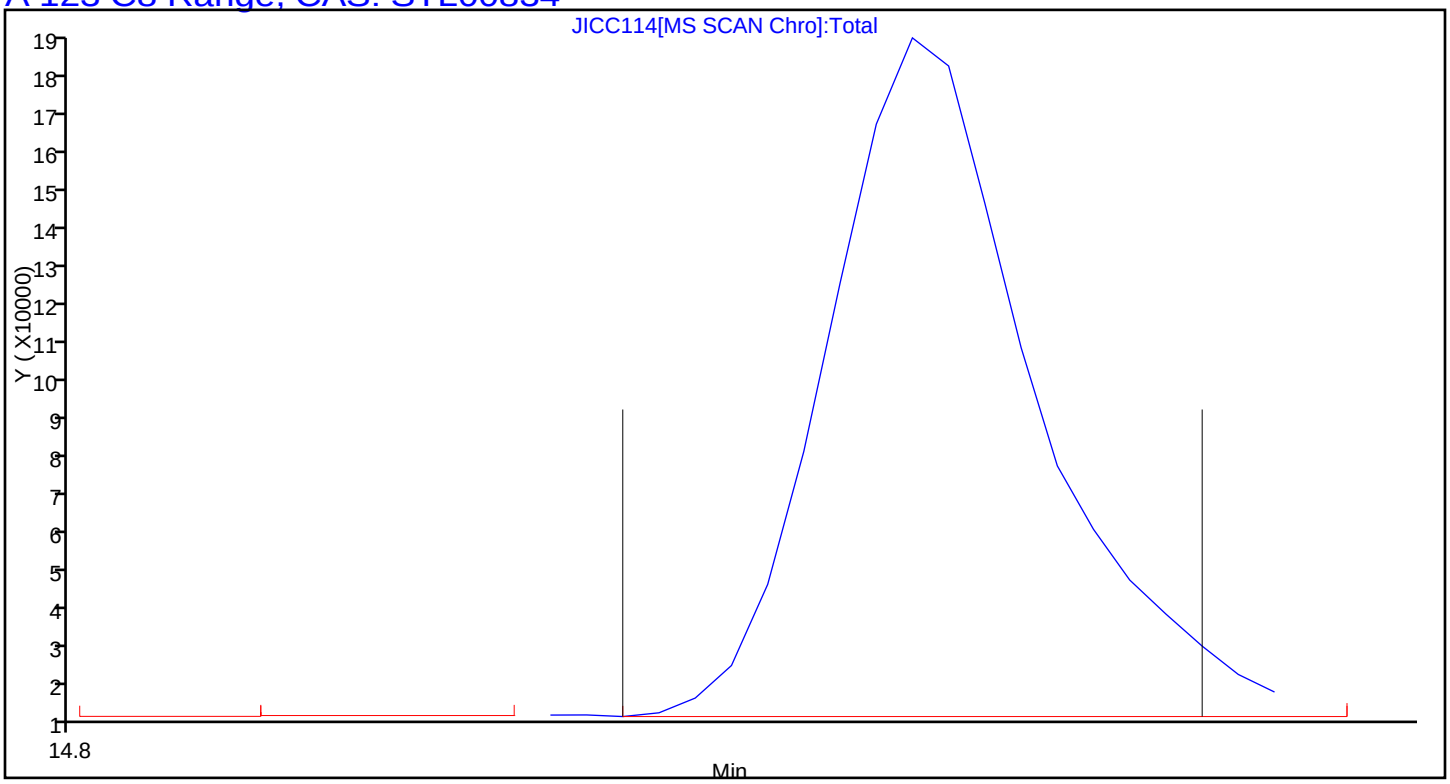


Report Date: 14-Mar-2014 14:45:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D				
Injection Date:	11-Mar-2014 15:23:30	Instrument ID:	MJ		
Lims ID:	IC L4	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	10	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
Lims ID: IC L5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL5,,1,5,,ICAL 1
Misc. Info.: J031114I,TO15,,140-0000516-006
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

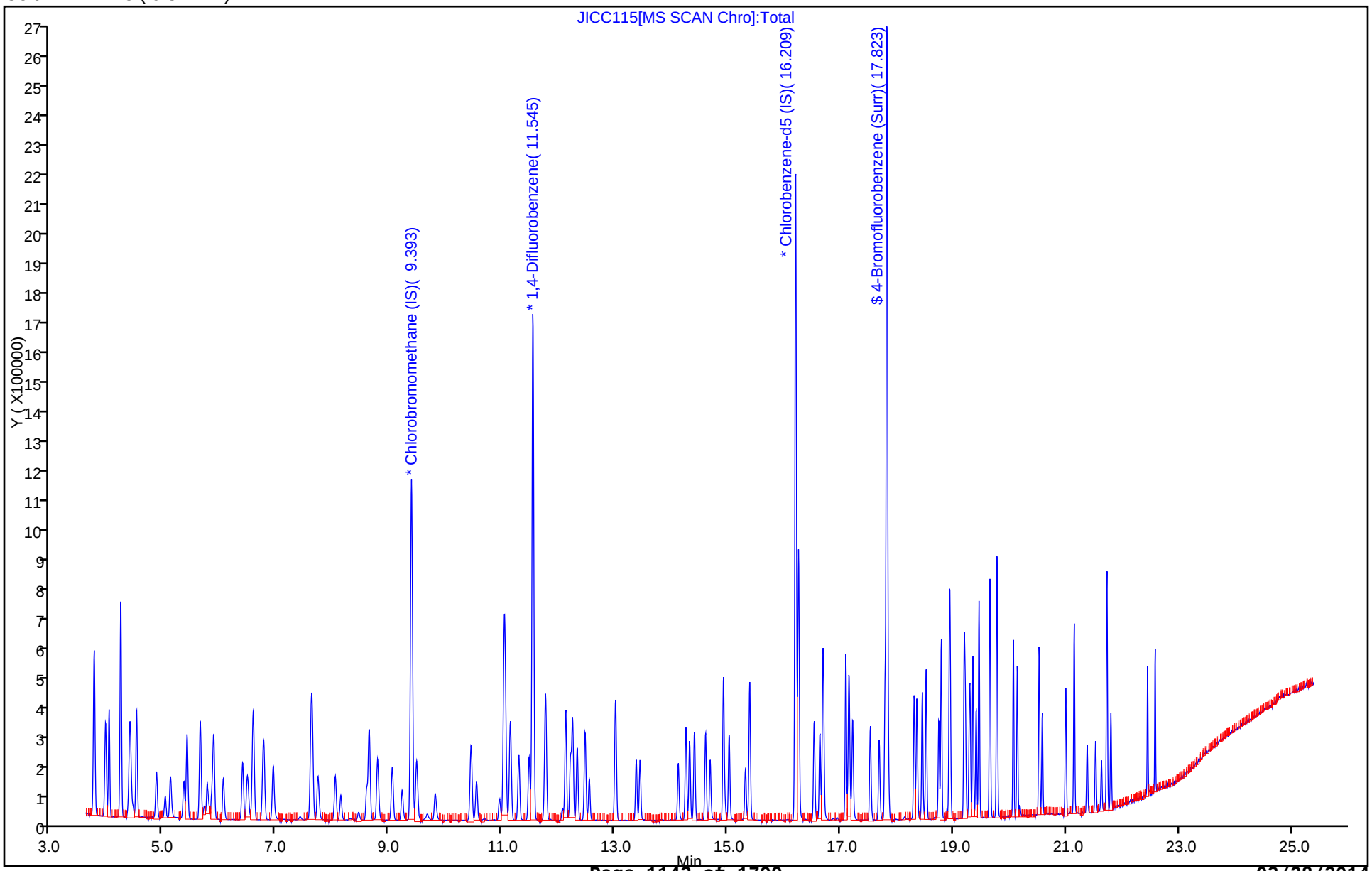
Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

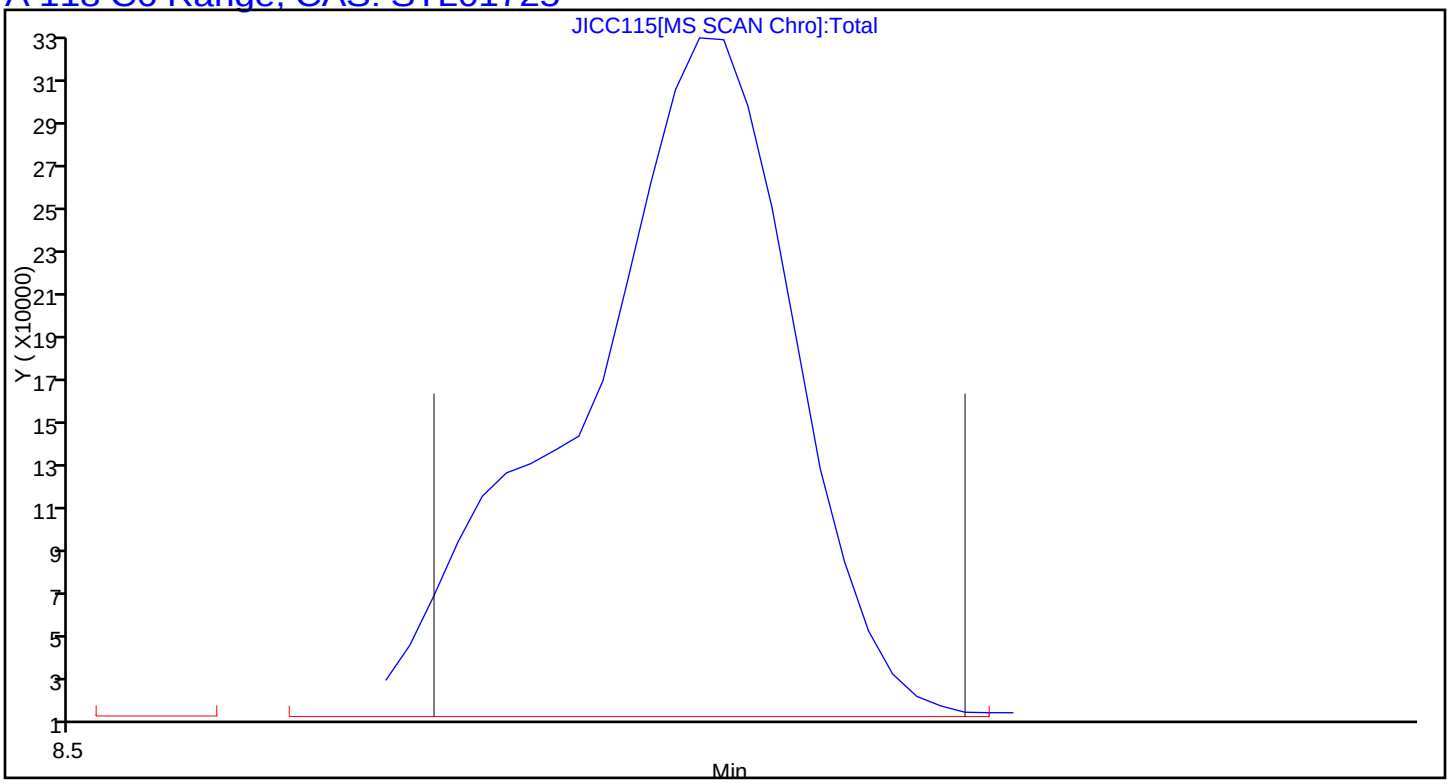


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

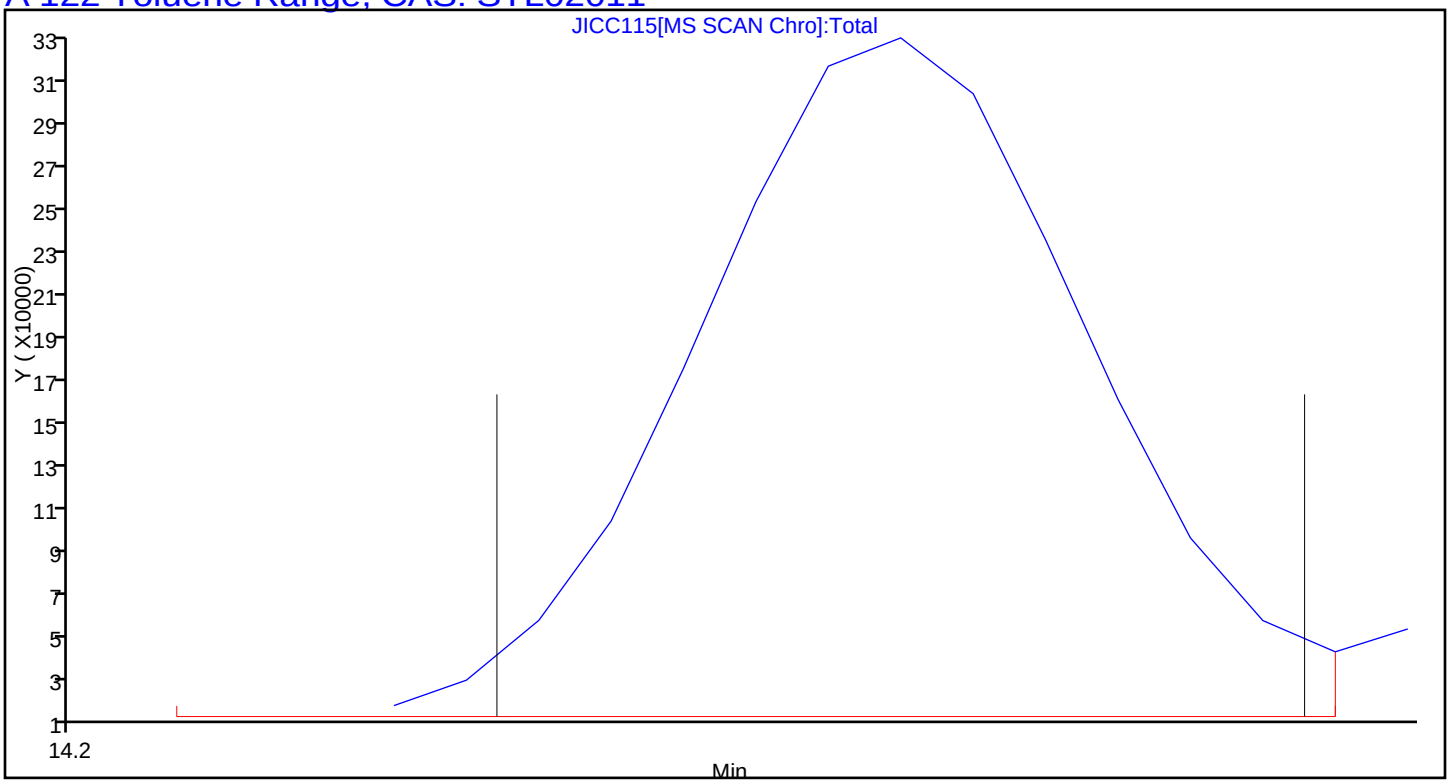


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

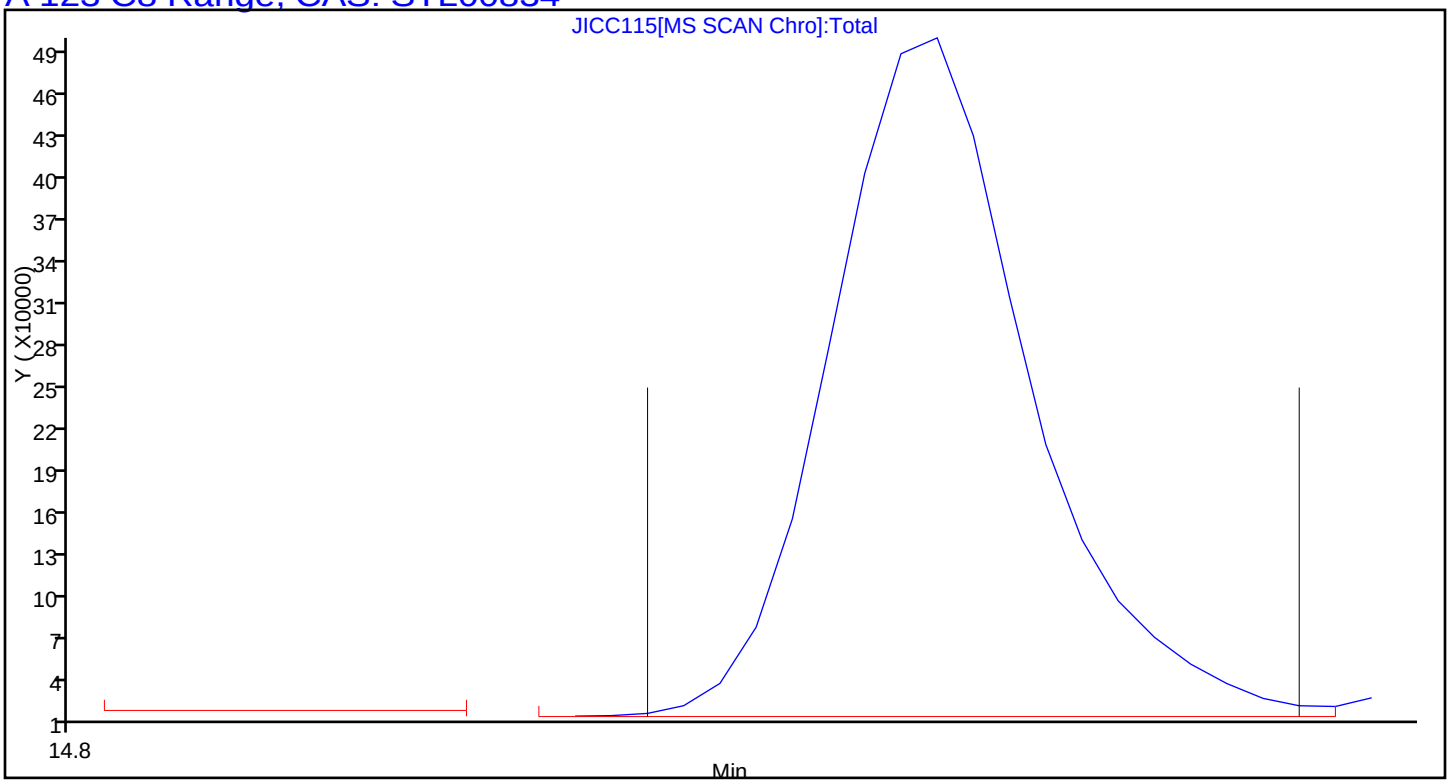


Report Date: 14-Mar-2014 14:45:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D				
Injection Date:	11-Mar-2014 16:17:30	Instrument ID:	MJ		
Lims ID:	IC L5	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	11	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
Lims ID: ICIS L6 Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL6,,1,6,,ICAL 2
Misc. Info.: J031114I,TO15,,140-0000516-007
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 -	8.710	0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 -	14.988	0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

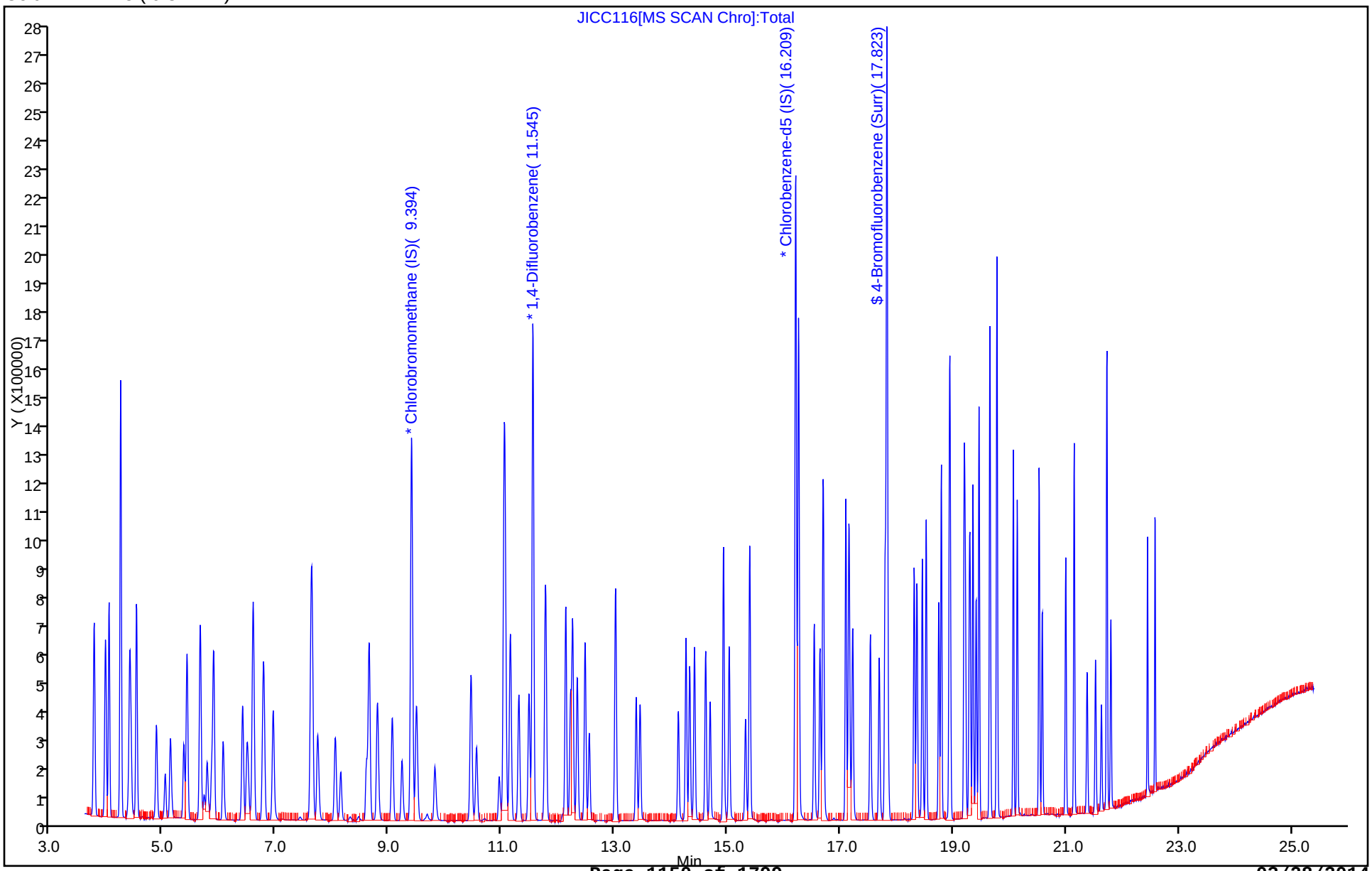
Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ICIS L6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

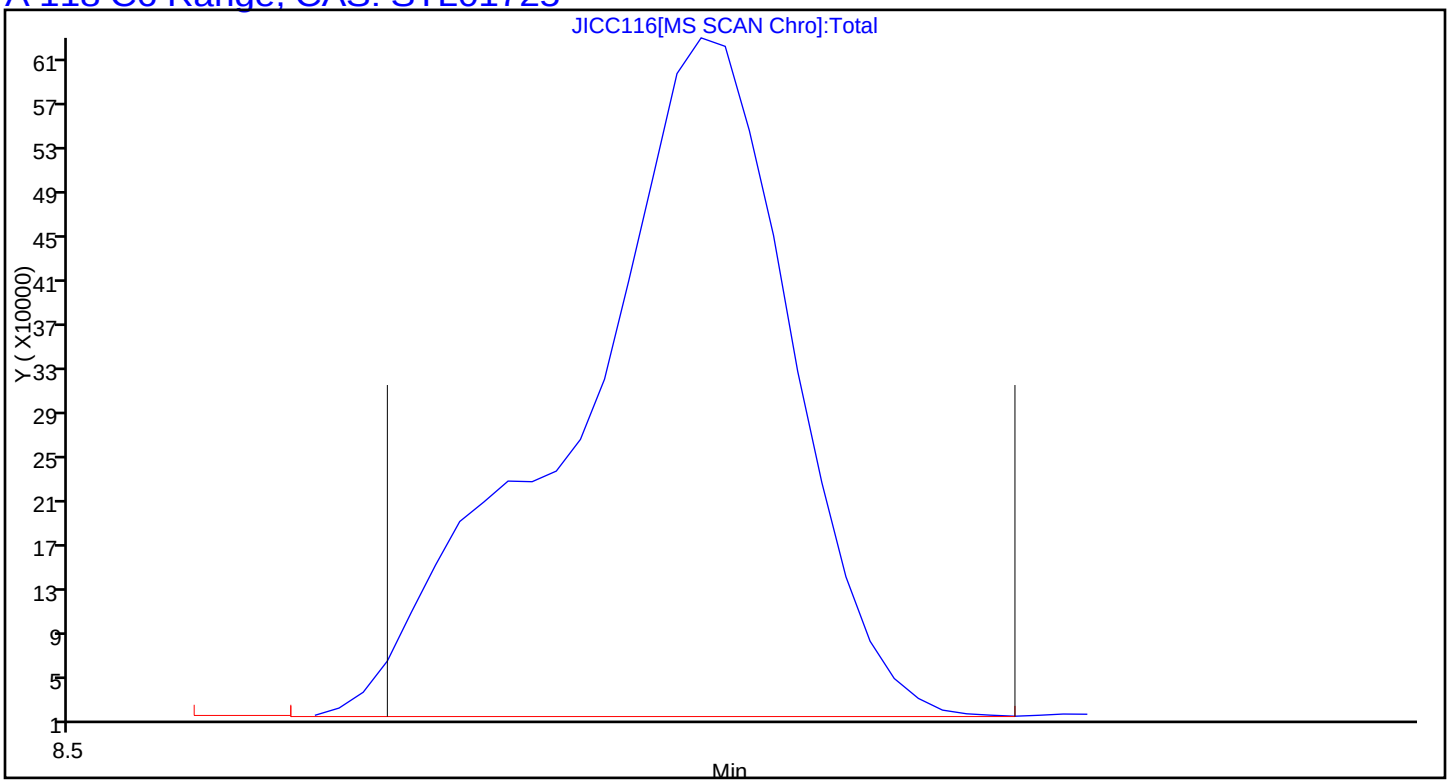


Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D				
Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725



Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30 Instrument ID: MJ

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

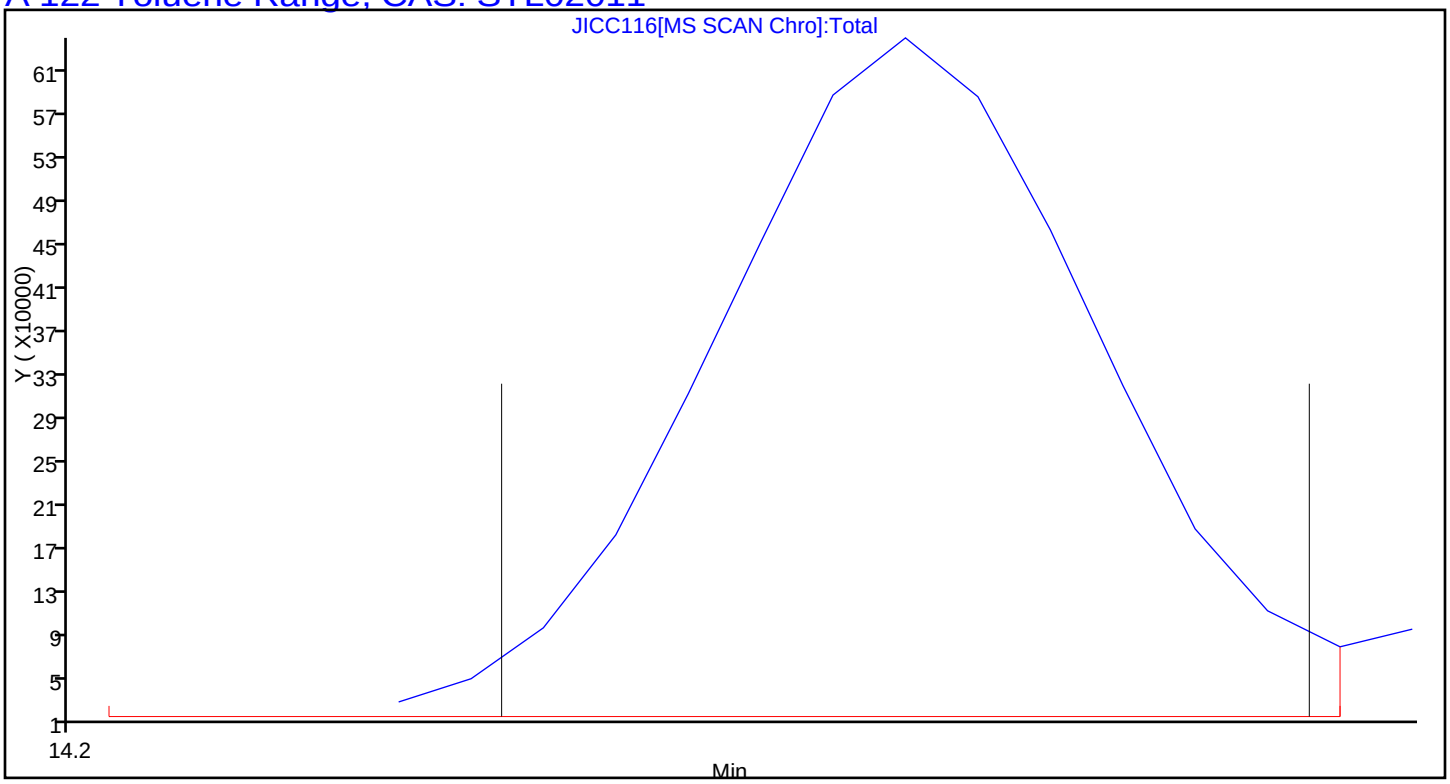
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011

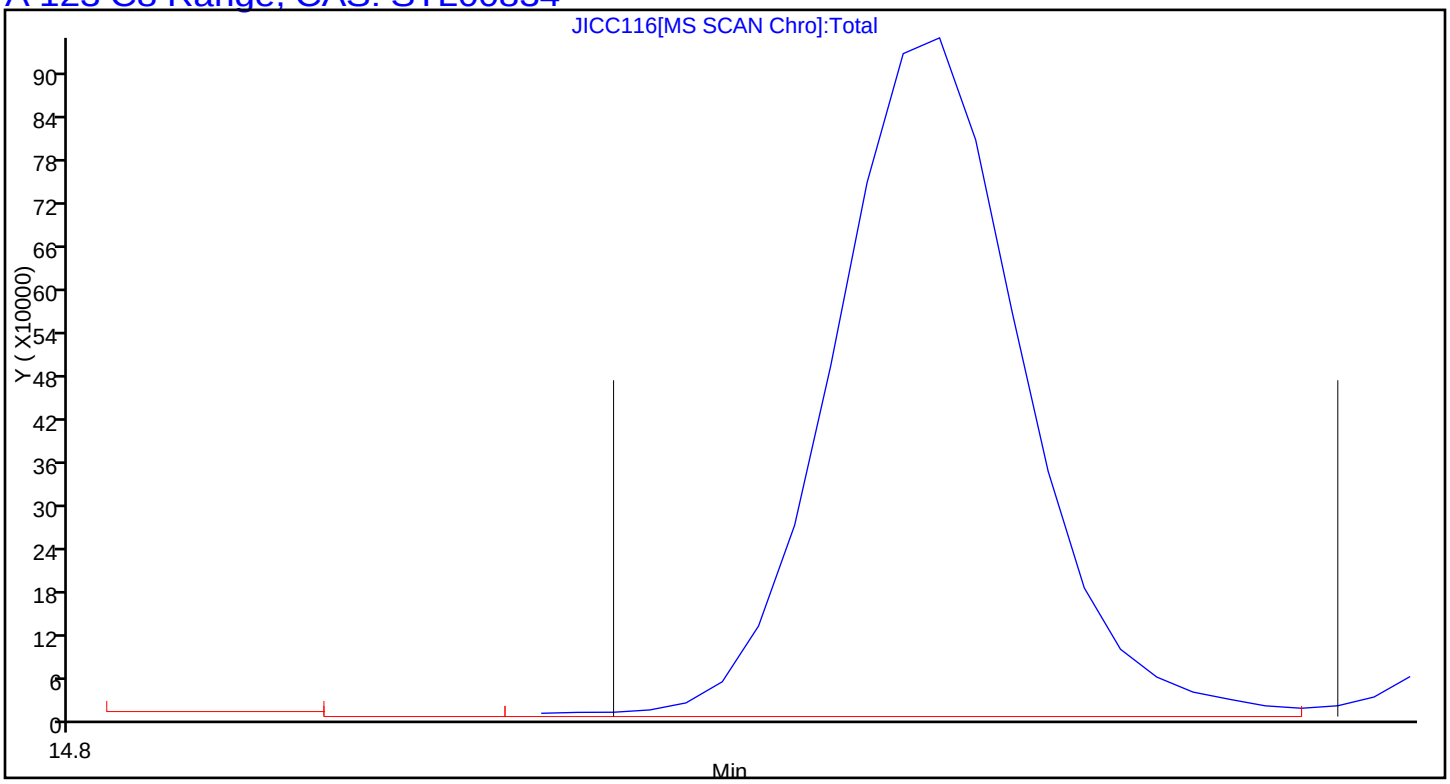


Report Date: 14-Mar-2014 14:47:03 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D				
Injection Date:	11-Mar-2014 17:11:30	Instrument ID:	MJ		
Lims ID:	ICIS L6	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	12	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
Lims ID: IC L7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL7,,1,7,,ICAL 4
Misc. Info.: J031114I,TO15,,140-0000516-008
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 -	8.713	0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 -	14.294	0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 -	14.974	0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

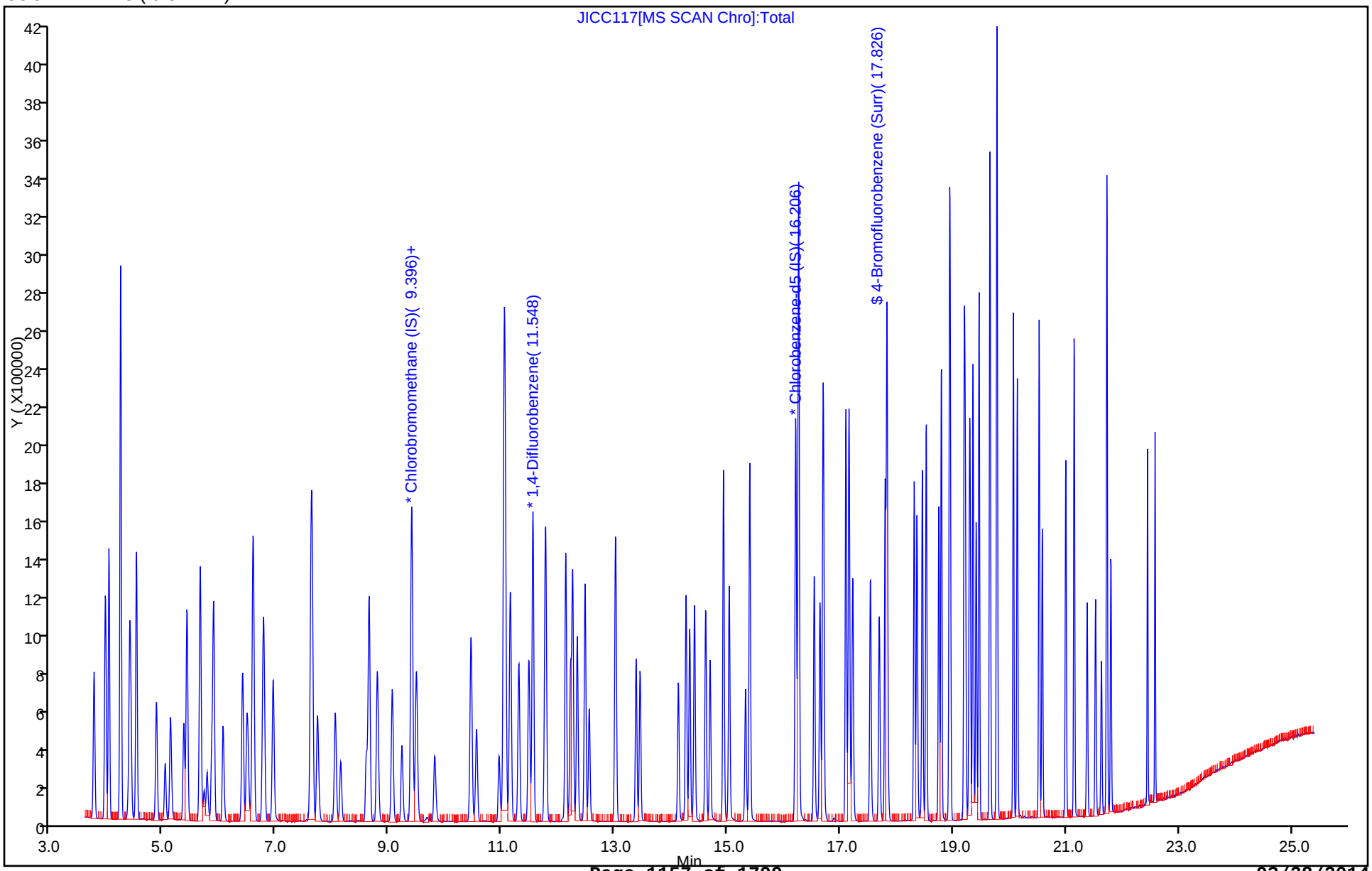
Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L7	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

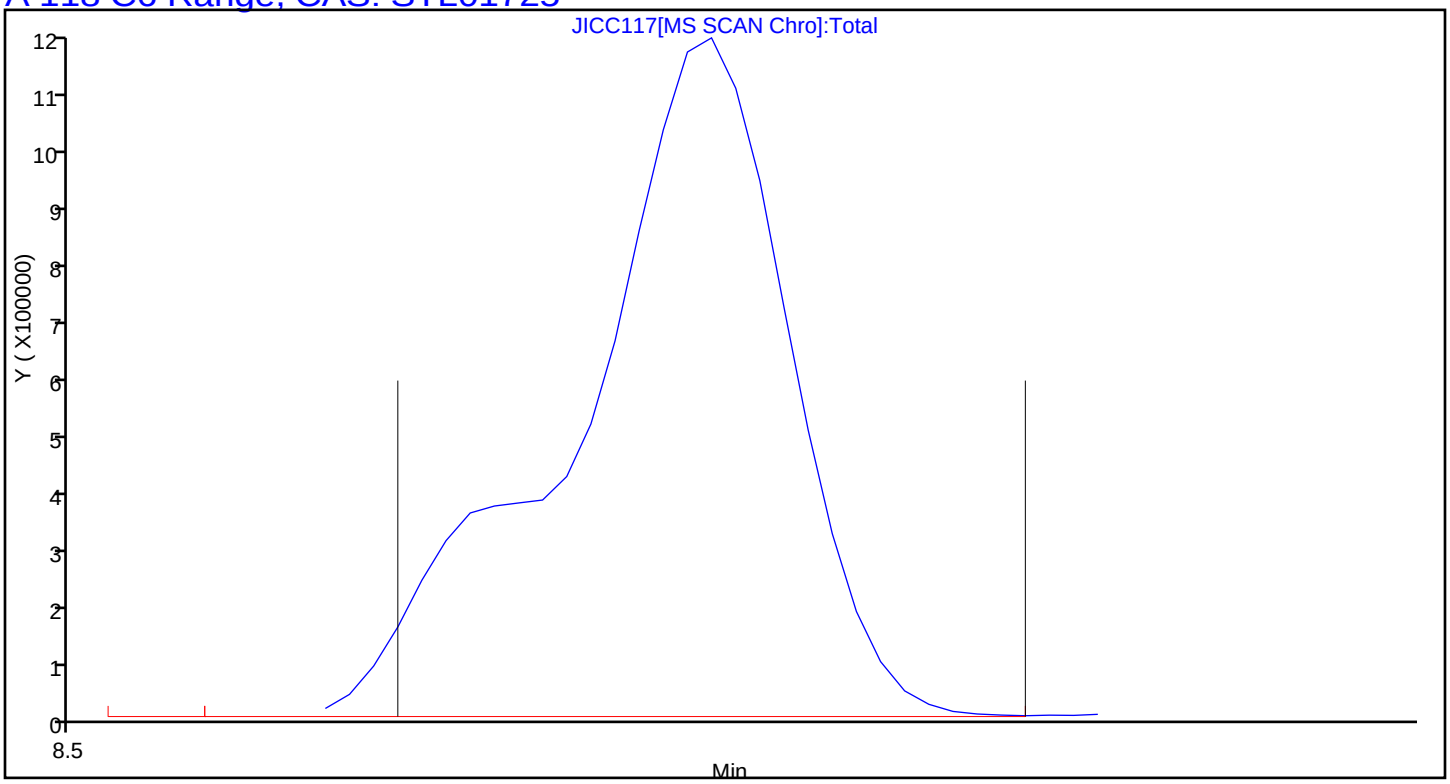


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

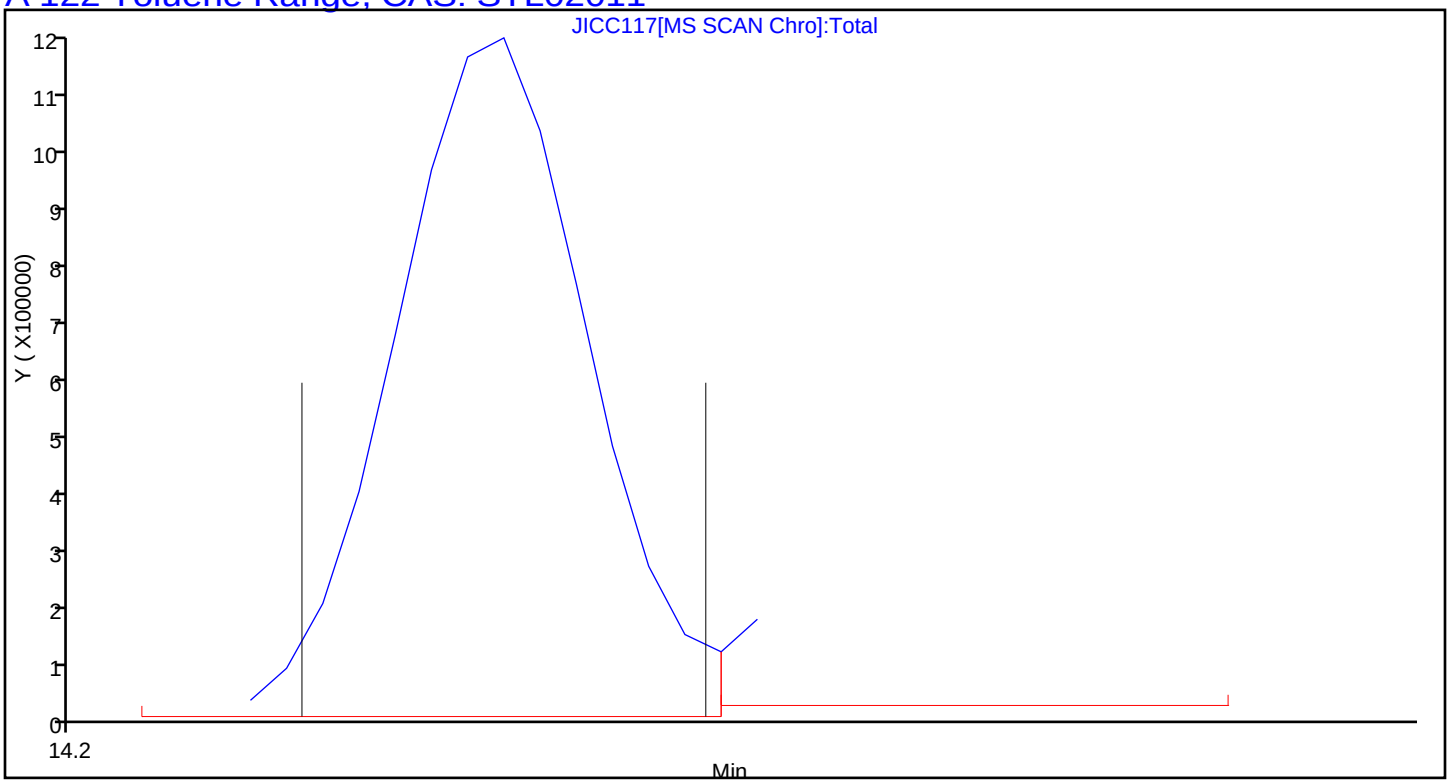


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

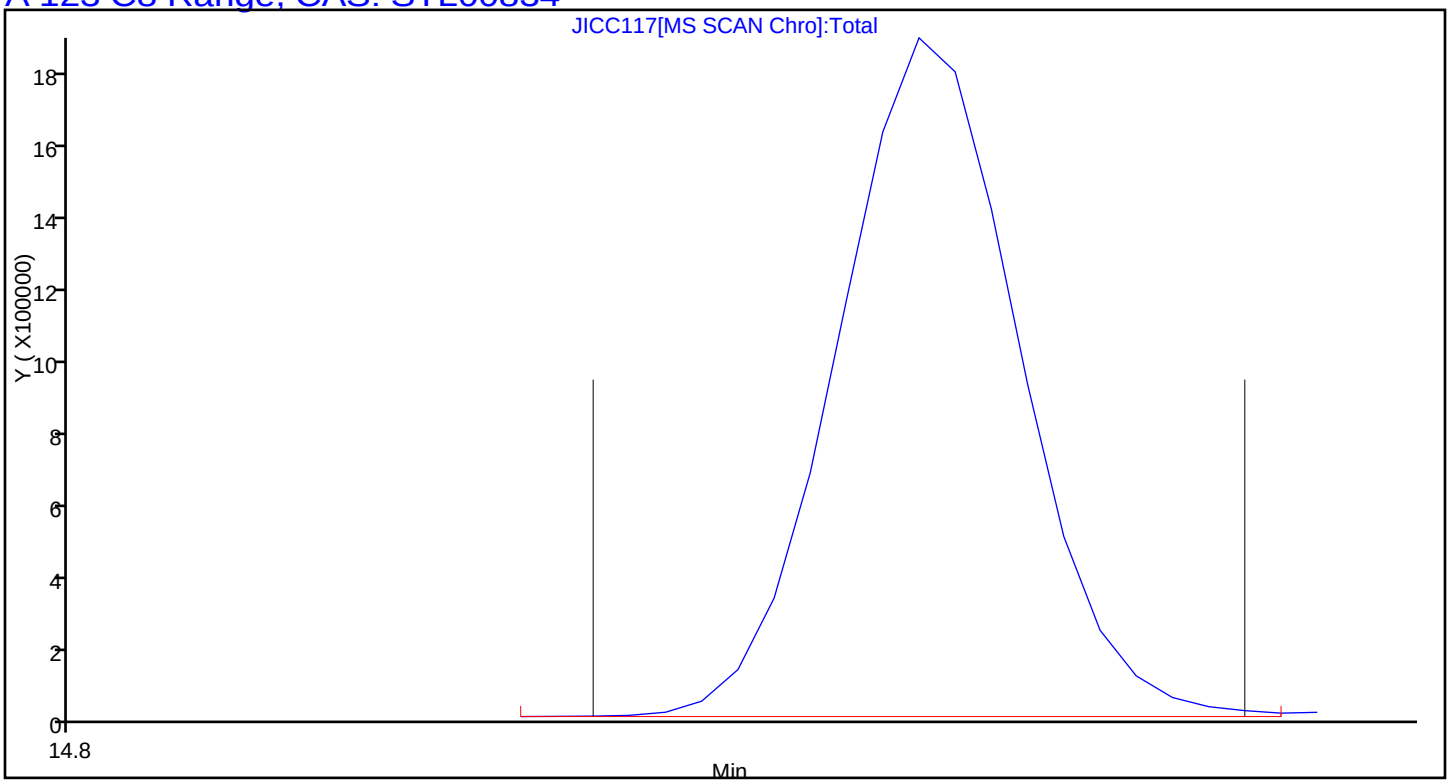


Report Date: 14-Mar-2014 14:44:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D				
Injection Date:	11-Mar-2014 18:06:30	Instrument ID:	MJ		
Lims ID:	IC L7	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	13	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
Lims ID: IC L8 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL8,,1,8,,ICAL 8
Misc. Info.: J031114I,TO15,,140-0000516-009
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 -	8.714	0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 -	14.976	0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

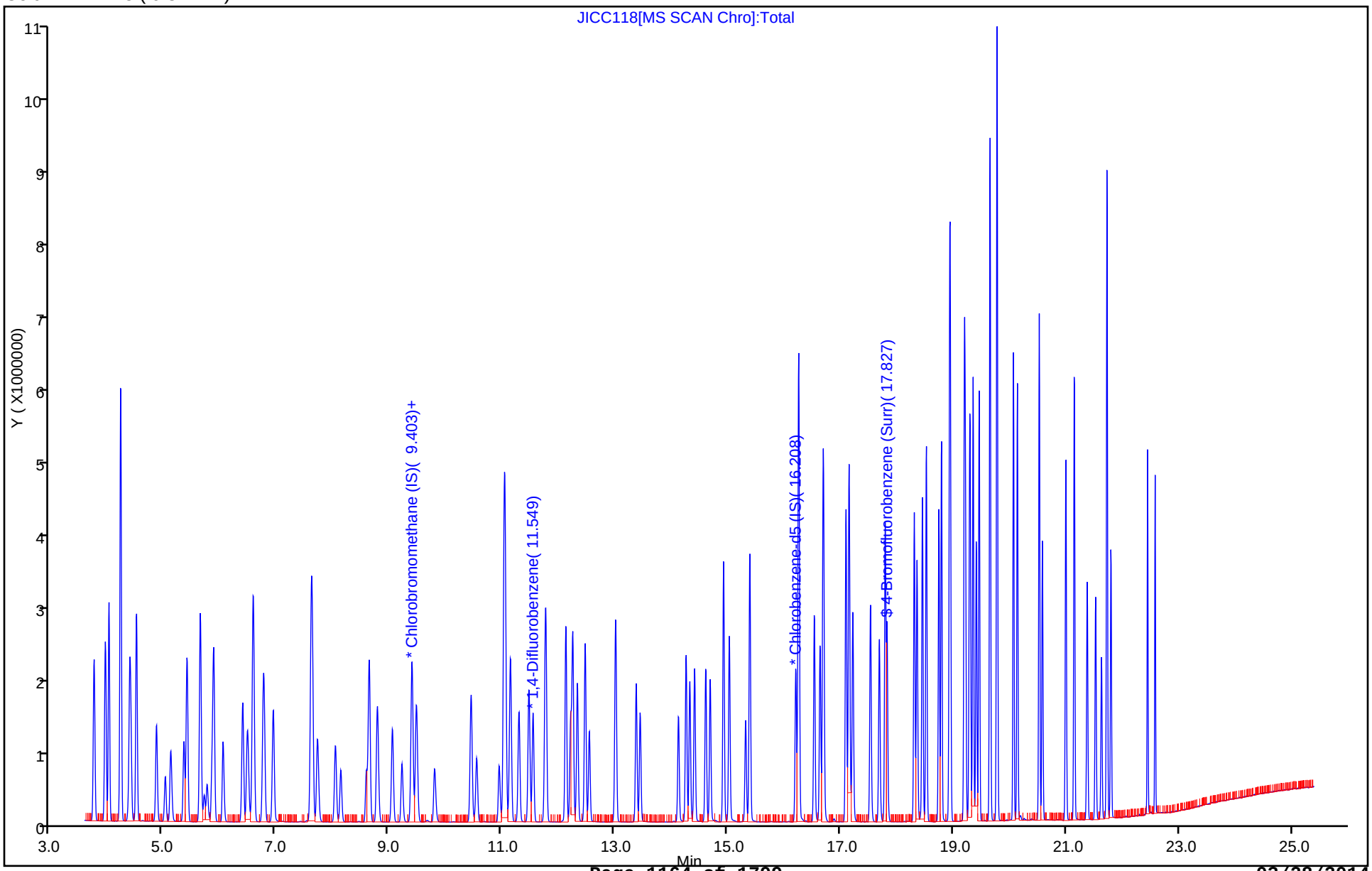
Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L8	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

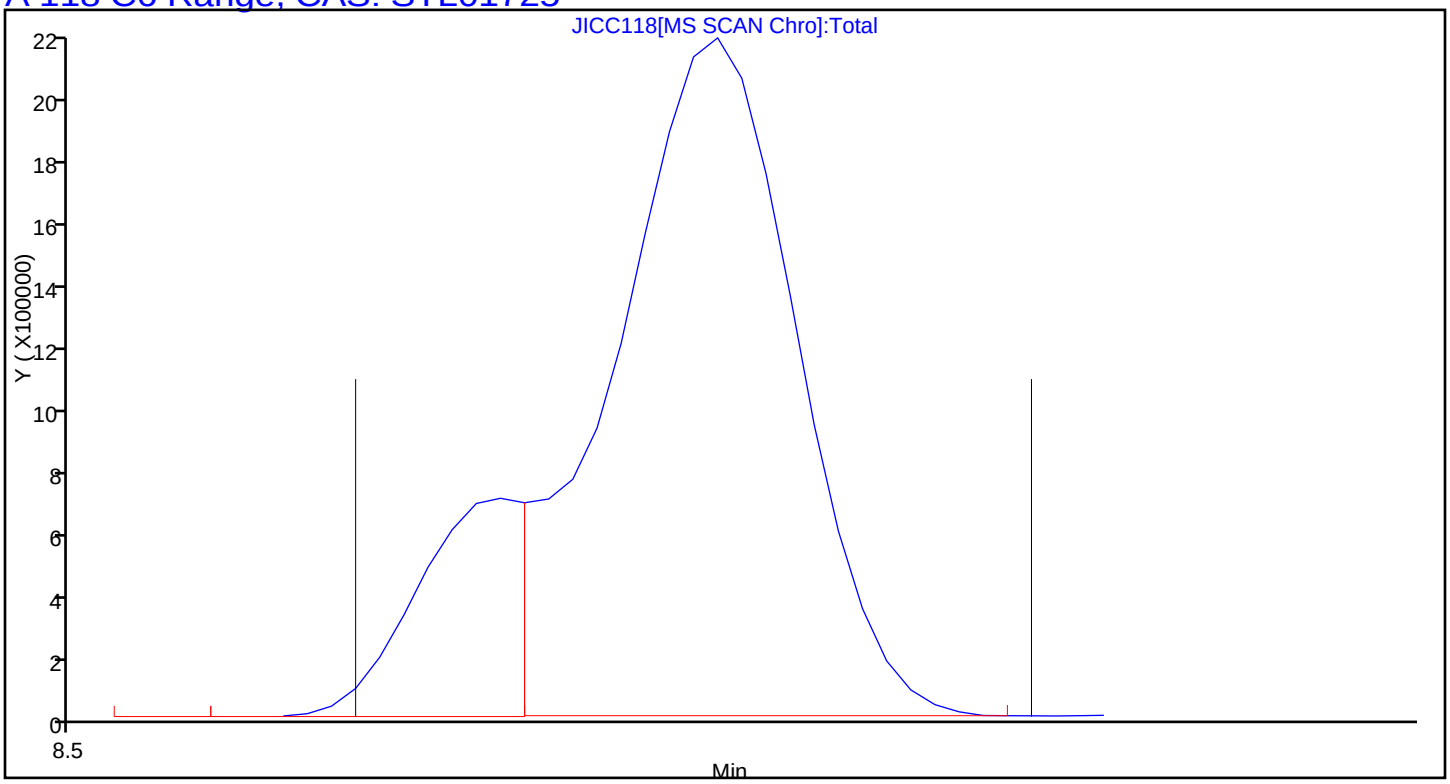


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

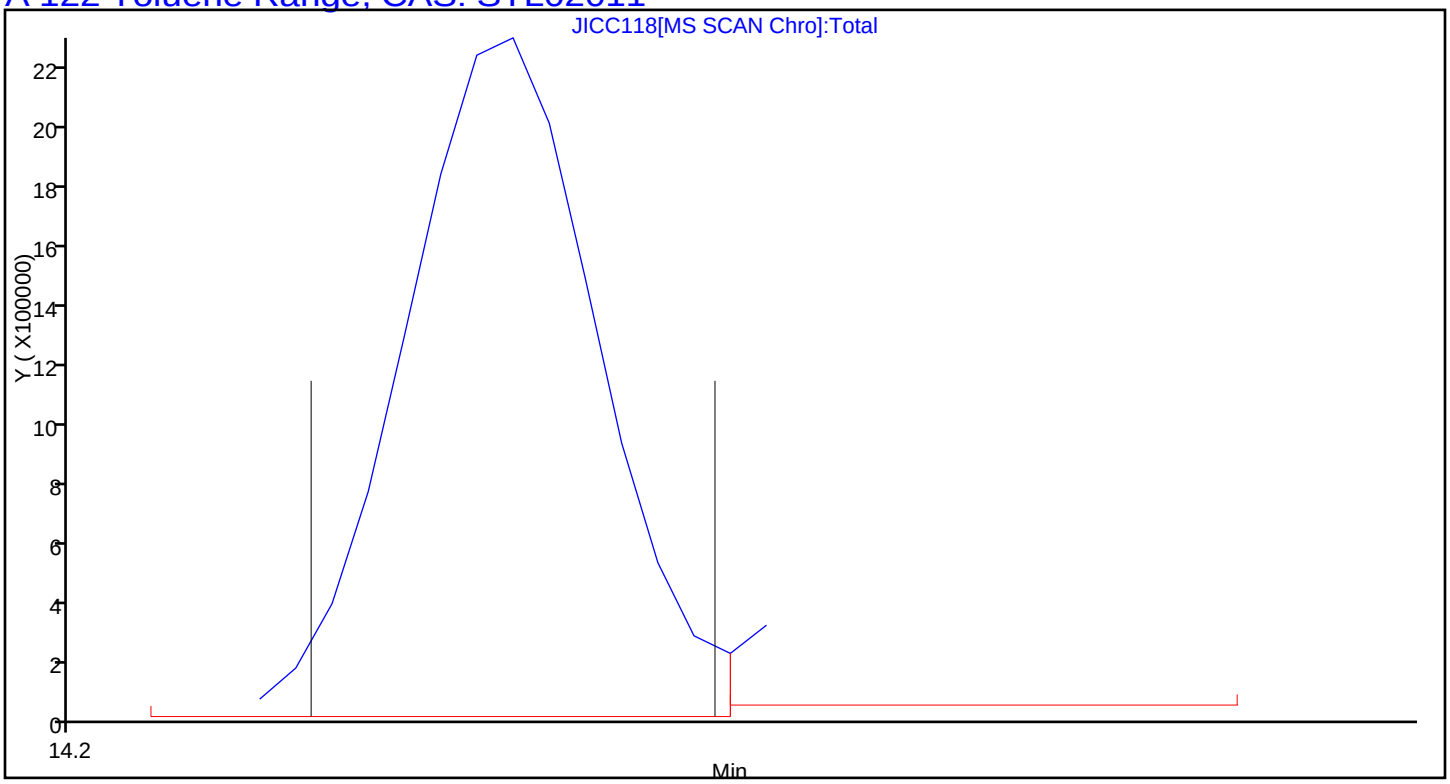


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

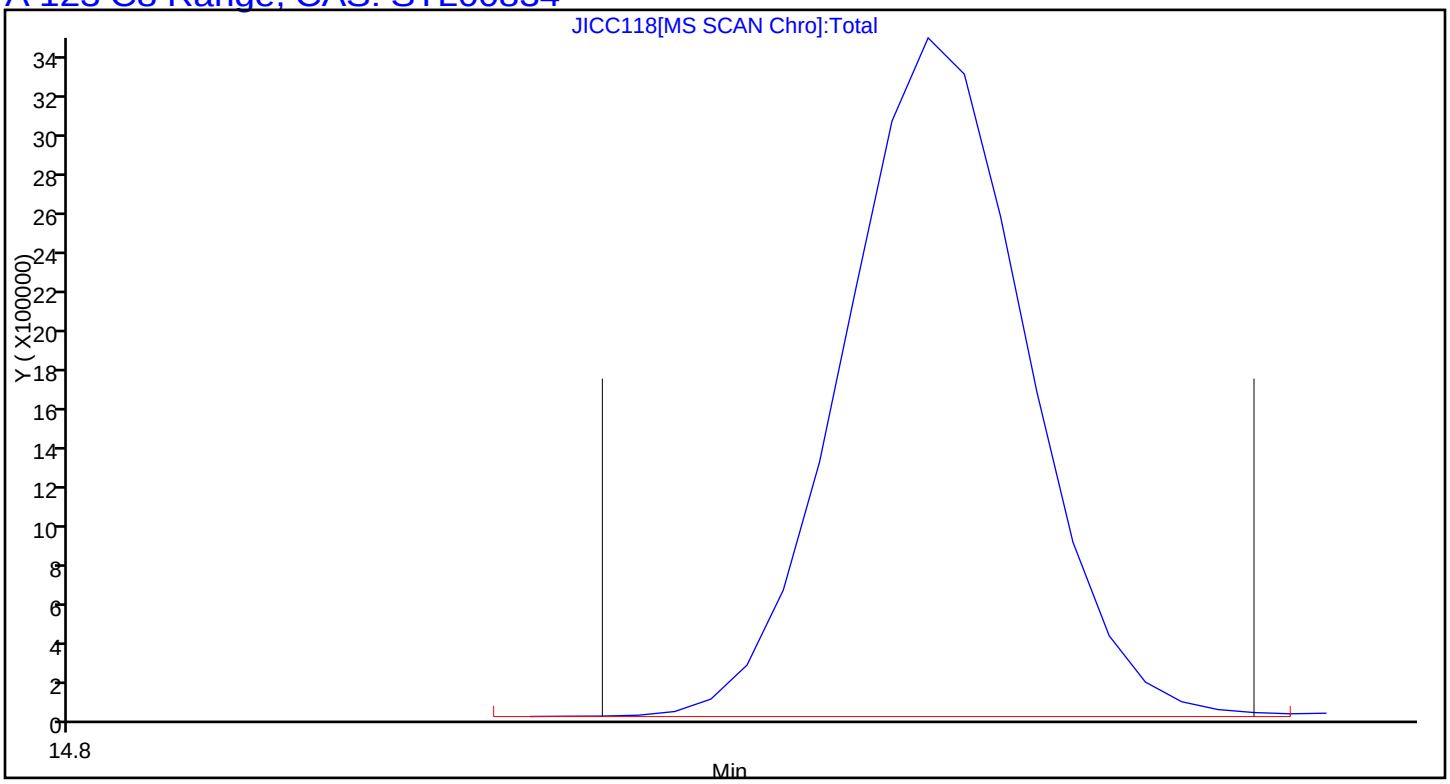


Report Date: 14-Mar-2014 14:44:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D				
Injection Date:	11-Mar-2014 19:02:30	Instrument ID:	MJ		
Lims ID:	IC L8	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	14	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
Lims ID: IC L9 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: ICAL9,,1,9,,ICAL 16
Misc. Info.: J031114I,TO15,,140-0000516-010
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

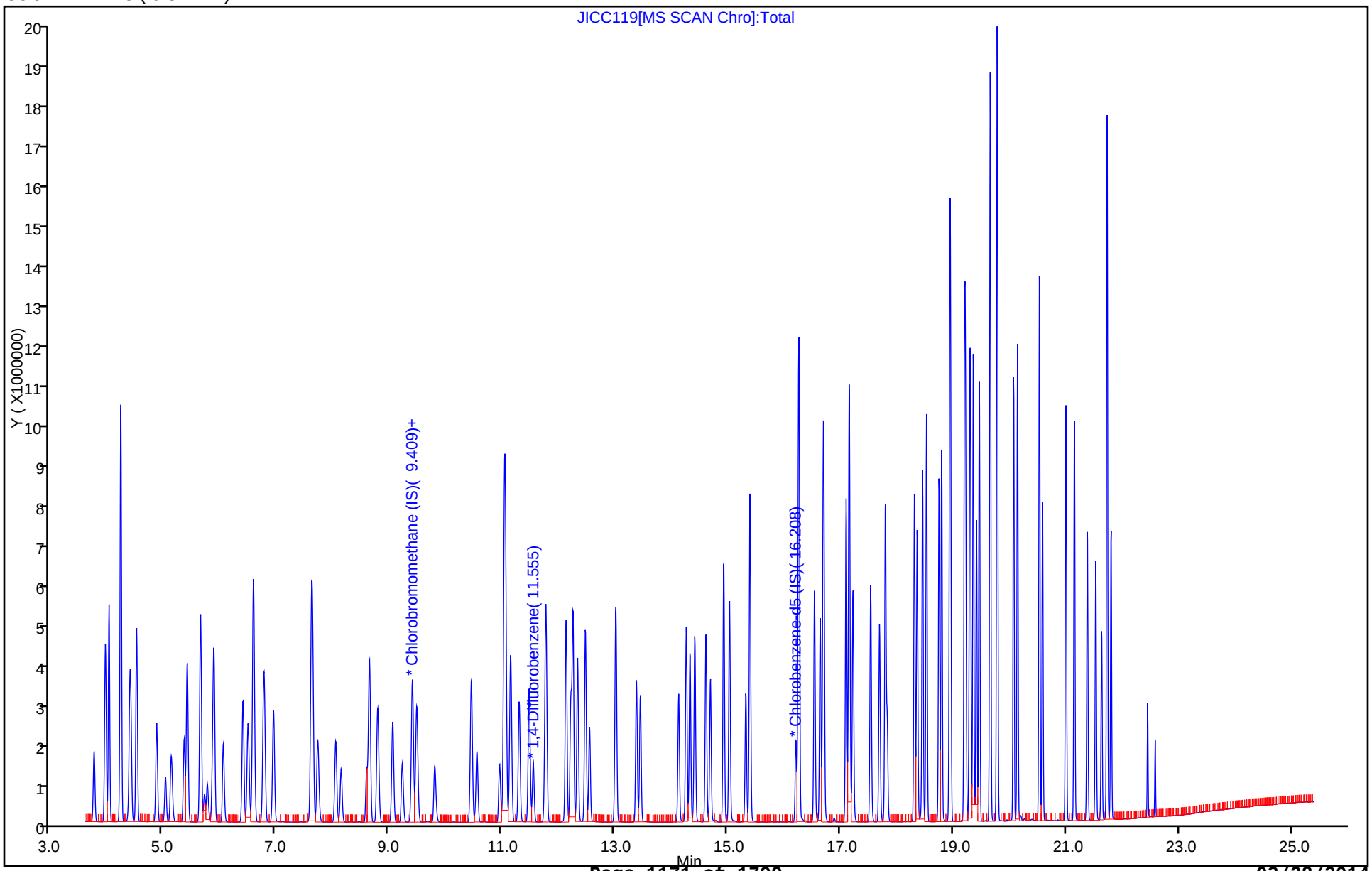
Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	IC L9	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

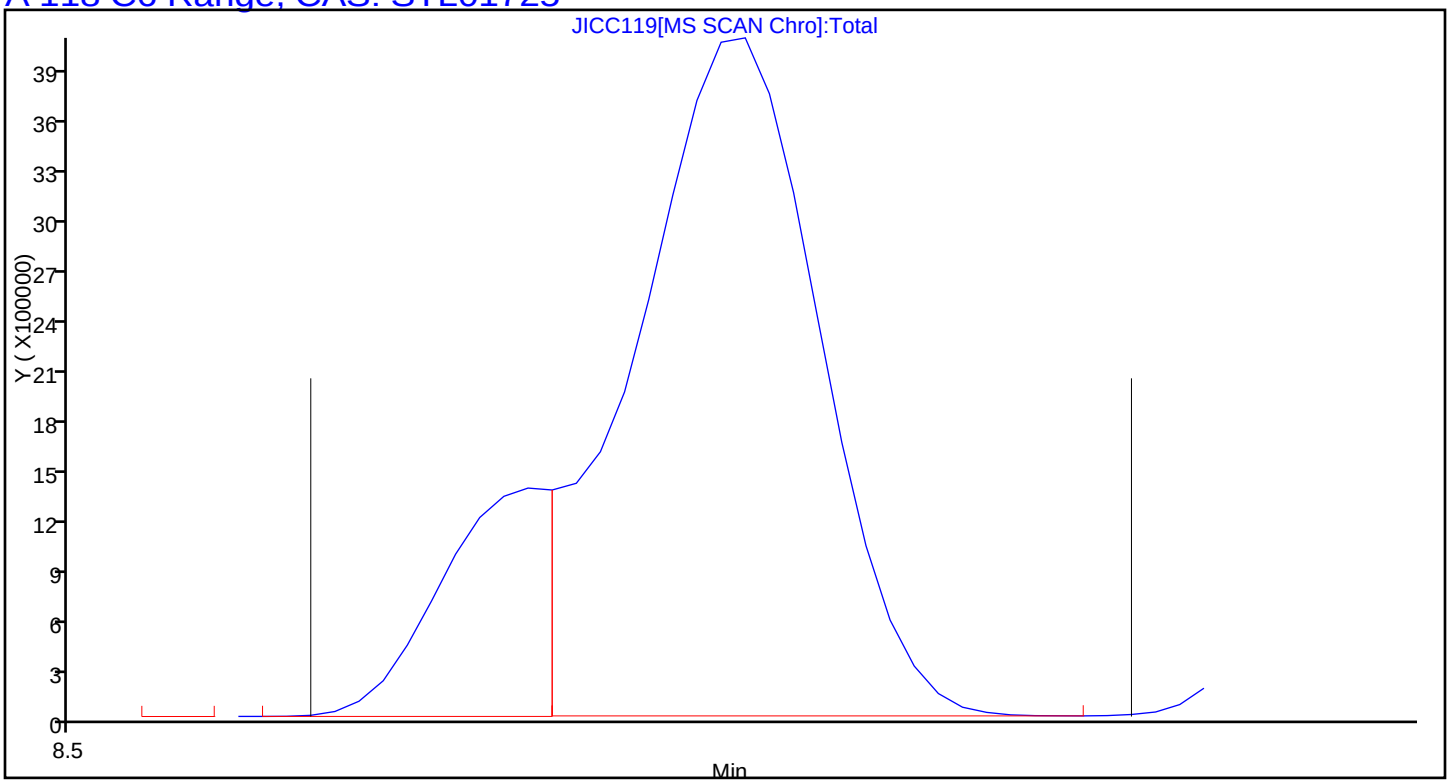


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 118 C6 Range, CAS: STL01725

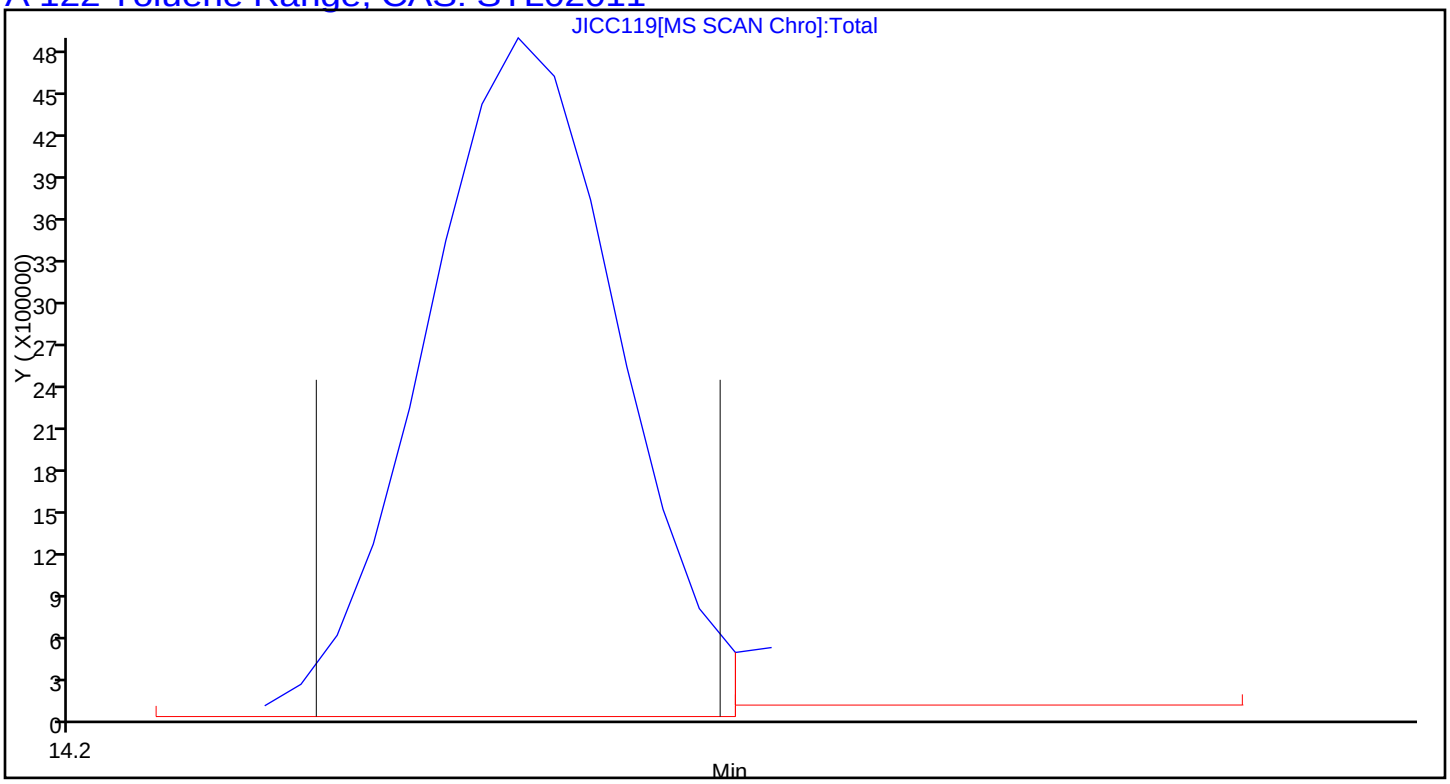


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 122 Toluene Range, CAS: STL02011

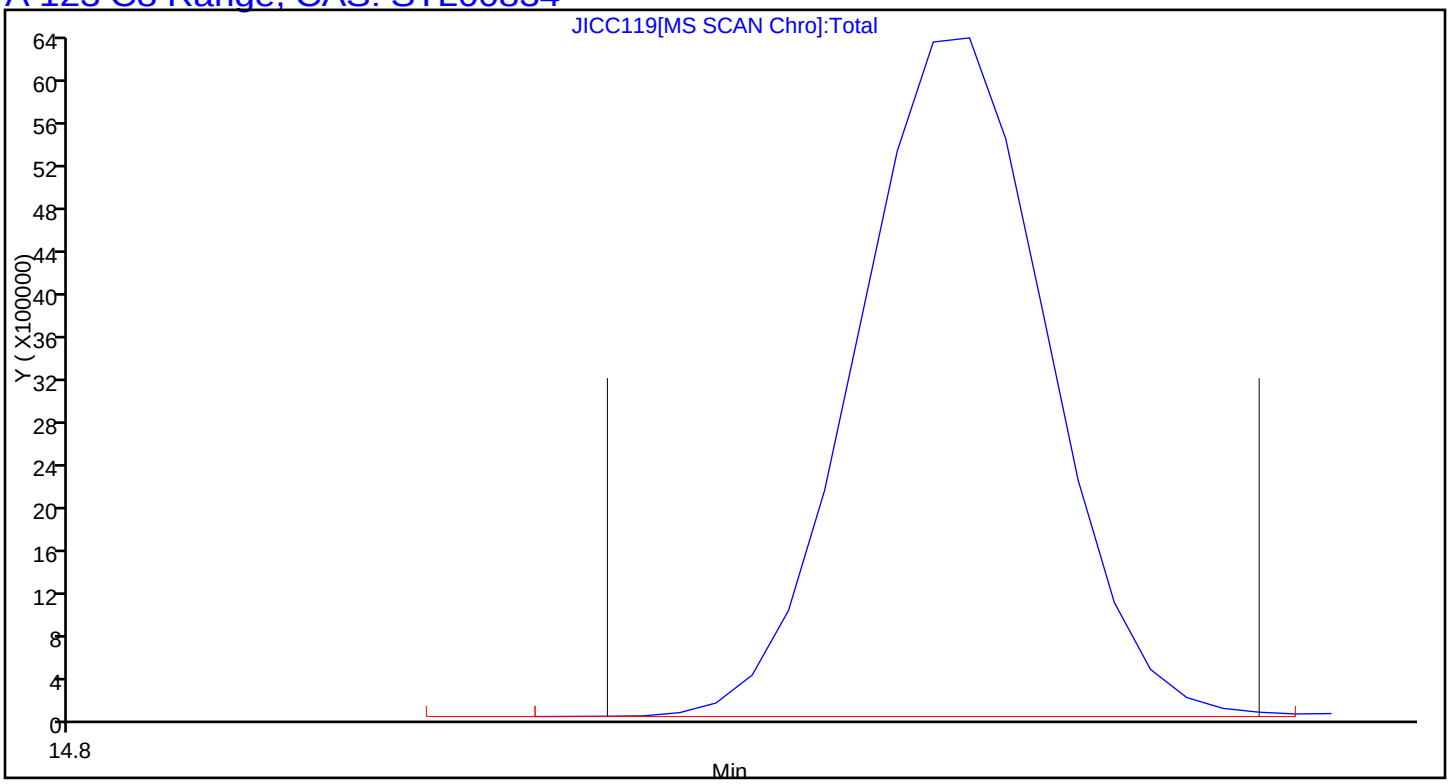


Report Date: 14-Mar-2014 14:44:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Injection Date:	11-Mar-2014 19:57:30	Instrument ID:	MJ		
Lims ID:	IC L9	Lab Sample ID:			
Client ID:					
Operator ID:	7126	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 123 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
Lims ID: icv Lab Sample ID: ICV 140-760/14-A
Client ID:
Sample Type: ICV
Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: icV1.0,1,3,0,,ICV
Misc. Info.: E012814I,TO155,140-0000390-014
Operator ID: 7126 Instrument ID: ME
Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

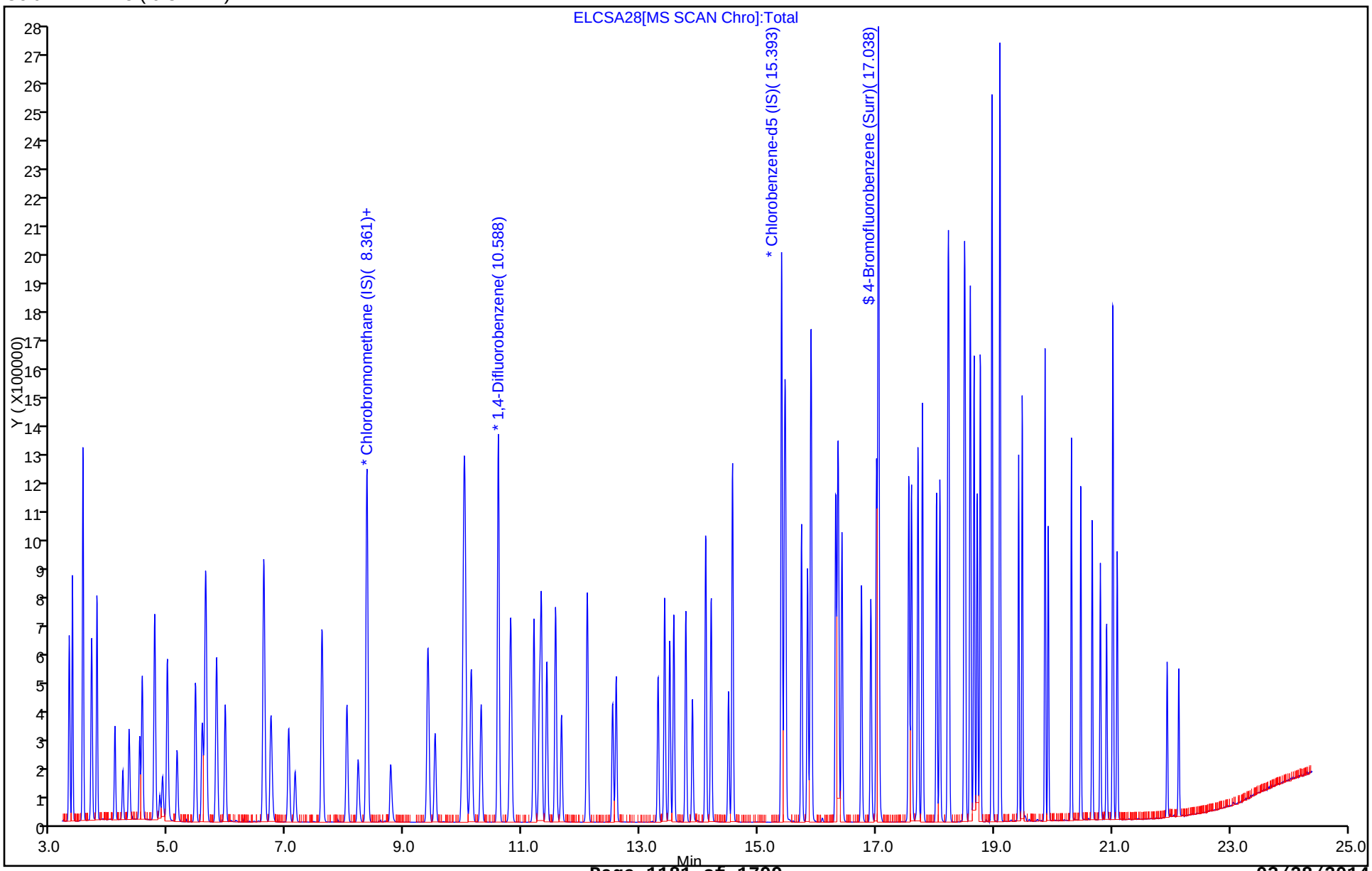
Report Date: 30-Jan-2014 13:20:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date:	28-Jan-2014 23:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	icv	Lab Sample ID:	ICV 140-760/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6018		2.15	2.00	7.3	30.0
Propene	Ave	1.006	0.6738		1.34	2.00	-33.0*	30.0
Dichlorodifluoromethane	Ave	4.425	4.986		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3150		1.78	2.00	-10.8	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.450		2.59	2.00	29.4	30.0
Acetaldehyde	Ave	0.3349	0.3105		9.27	10.0	-7.3	50.0
Vinyl chloride	Ave	1.364	1.446		2.12	2.00	6.0	30.0
1,3-Butadiene	Ave	0.9428	0.9102		1.93	2.00	-3.5	30.0
Butane	Ave	1.913	1.741		1.82	2.00	-8.9	30.0
Bromomethane	Ave	1.473	1.715		2.33	2.00	16.5	30.0
Chloroethane	Ave	0.6922	0.7430		2.15	2.00	7.4	30.0
Ethanol	Ave	0.4001	0.3408		8.52	10.0	-14.8	50.0
Vinyl bromide	Ave	1.331	1.746		2.62	2.00	31.2*	30.0
2-Methylbutane	Ave	1.401	1.318		1.88	2.00	-5.9	30.0
Trichlorofluoromethane	Ave	4.438	5.761		2.60	2.00	29.8	30.0
Acrolein	Ave	0.4230	0.4445		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3806	0.3860		2.03	2.00	1.4	30.0
Acetone	Ave	0.6059	0.5527		1.82	2.00	-8.8	30.0
Pentane	Ave	0.2626	0.2920		2.22	2.00	11.2	30.0
Isopropyl alcohol	Ave	1.560	1.396		1.79	2.00	-10.5	30.0
Ethyl ether	Ave	1.018	0.8243		1.62	2.00	-19.0	30.0
1,1-Dichloroethene	Ave	1.190	1.204		2.02	2.00	1.2	30.0
tert-Butyl alcohol	Ave	2.208	1.774		1.61	2.00	-19.6	30.0
Acrylonitrile	Ave	0.7008	0.5693		1.62	2.00	-18.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.011		2.19	2.00	9.6	30.0
Methylene Chloride	Ave	1.143	1.099		1.92	2.00	-3.9	30.0
3-Chloropropene	Ave	1.349	1.019		1.51	2.00	-24.5	30.0
Carbon disulfide	Ave	4.140	3.782		1.83	2.00	-8.6	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.407		1.93	2.00	-3.5	30.0
2-Methylpentane	Ave	2.634	1.630		1.24	2.00	-38.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.618		1.99	2.00	-0.3	30.0
1,1-Dichloroethane	Ave	2.467	2.129		1.73	2.00	-13.7	30.0
Vinyl acetate	Ave	2.433	1.738		1.43	2.00	-28.6	30.0
2-Butanone (MEK)	Ave	0.6547	0.4803		1.47	2.00	-26.6	30.0
Hexane	Ave	1.064	0.7722		1.45	2.00	-27.4	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.238		1.82	2.00	-9.0	30.0
Ethyl acetate	Ave	2.130	1.422		1.34	2.00	-33.2*	30.0
Chloroform	Ave	3.427	3.348		1.95	2.00	-2.3	30.0
Tetrahydrofuran	Ave	1.026	0.6287		1.23	2.00	-38.7*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.097		2.11	2.00	5.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4730		1.93	2.00	-3.5	30.0
1-Butanol	Ave	0.0746	0.0367		0.985	2.00	-50.8*	30.0
Cyclohexane	Ave	0.1509	0.1226		1.62	2.00	-18.8	30.0
Benzene	Ave	0.8050	0.7264		1.80	2.00	-9.8	30.0
Carbon tetrachloride	Ave	0.7733	0.9119		2.36	2.00	17.9	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1531		1.63	2.00	-18.3	50.0
Thiophene	Ave	0.5002	0.4456		1.78	2.00	-10.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.8797		1.42	2.00	-29.2	30.0
Heptane	Ave	0.3047	0.2492		1.64	2.00	-18.2	30.0
1,2-Dichloropropane	Ave	0.2586	0.2130		1.65	2.00	-17.6	30.0
Trichloroethene	Ave	0.3975	0.3801		1.91	2.00	-4.4	30.0
Dibromomethane	Ave	0.3799	0.3712		1.95	2.00	-2.3	30.0
Bromodichloromethane	Ave	0.7571	0.7521		1.99	2.00	-0.7	30.0
1,4-Dioxane	Ave	0.1068	0.0798		1.49	2.00	-25.3	30.0
Methyl methacrylate	Ave	0.3033	0.2134		1.41	2.00	-29.6	30.0
Methylcyclohexane	Ave	0.5694	0.4694		1.65	2.00	-17.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.2728		1.15	2.00	-42.5*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4277		1.87	2.00	-6.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5023		1.86	2.00	-7.0	30.0
Toluene	Ave	1.072	1.046		1.95	2.00	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2953		1.87	2.00	-6.4	30.0
2-Methylthiophene	Ave	0.9307	0.9342		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9569		2.04	2.00	2.1	50.0
2-Hexanone	Ave	0.2529	0.1779		1.41	2.00	-29.7	30.0
Octane	Ave	0.3821	0.3585		1.88	2.00	-6.2	30.0
Dibromochloromethane	Ave	0.7144	0.8349		2.34	2.00	16.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5798		2.06	2.00	3.0	30.0
Tetrachloroethene	Ave	0.4564	0.4642		2.03	2.00	1.7	30.0
Chlorobenzene	Ave	0.8545	0.9287		2.17	2.00	8.7	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5558		1.35	2.00	-32.3	50.0
Ethylbenzene	Ave	1.374	1.424		2.07	2.00	3.6	30.0
2-Ethylthiophene	Ave	1.101	1.215		2.21	2.00	10.4	50.0
m-Xylene & p-Xylene	Ave	1.080	1.217		4.51	4.00	12.7	30.0
Nonane	Ave	0.5994	0.4769		1.59	2.00	-20.4	30.0
Bromoform	Ave	0.6422	0.8848		2.76	2.00	37.8*	30.0
Styrene	Ave	0.7475	0.8625		2.31	2.00	15.4	30.0
o-Xylene	Ave	1.168	1.254		2.15	2.00	7.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7002		2.04	2.00	1.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2871		2.29	2.00	14.7	30.0
Isopropylbenzene	Ave	1.542	1.765		2.29	2.00	14.4	30.0
Propylbenzene	Ave	0.4031	0.4486		2.23	2.00	11.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4199		2.19	2.00	9.3	30.0
4-Ethyltoluene	Ave	1.477	1.707		2.31	2.00	15.5	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7792		2.33	2.00	16.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6896		2.50	2.00	24.8	30.0
Decane	Ave	0.6339	0.6033		1.90	2.00	-4.8	30.0
tert-Butylbenzene	Ave	1.348	1.585		2.35	2.00	17.6	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.532		2.50	2.00	24.8	30.0
sec-Butylbenzene	Ave	1.656	1.990		2.40	2.00	20.1	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.997		2.50	2.00	24.9	30.0
Benzyl chloride	Ave	1.010	1.209		2.40	2.00	19.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9690		2.47	2.00	23.4	30.0
4-Isopropyltoluene	Ave	1.399	1.755		2.51	2.00	25.4	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.275		2.45	2.00	22.4	50.0
Butylcyclohexane	Ave	0.9625	0.9946		2.07	2.00	3.3	50.0
Indane	Ave	1.073	1.285		2.40	2.00	19.8	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9595		2.52	2.00	26.2	30.0
Indene	Ave	1.019	1.279		2.51	2.00	25.6	50.0
Butylbenzene	Ave	1.239	1.562		2.52	2.00	26.0	30.0
Undecane	Ave	0.5595	0.6150		2.20	2.00	9.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.572		2.62	2.00	30.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.616		2.72	2.00	35.8	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.020		2.62	2.00	31.2	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.269		2.56	2.00	27.8	50.0
Dodecane	Ave	0.4200	0.3135		1.49	2.00	-25.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6318		2.49	2.00	24.4	30.0
Naphthalene	Ave	0.8890	1.095		2.46	2.00	23.2	30.0
Benzo(b)thiophene	Ave	0.6431	0.7023		2.18	2.00	9.2	50.0
Hexachlorobutadiene	Ave	0.6633	0.9739		2.94	2.00	46.8*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4458		2.35	2.00	17.6	30.0
2-Methylnaphthalene	Ave	0.0420	0.0519		15.5	12.5	23.6	50.0
1-Methylnaphthalene	Ave	0.0366	0.0465		15.9	12.5	27.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9104		4.16	4.00	3.9	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032414,TO155,,140-0000541-002
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub2

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	s
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 -	13.452	0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 -	14.142	0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

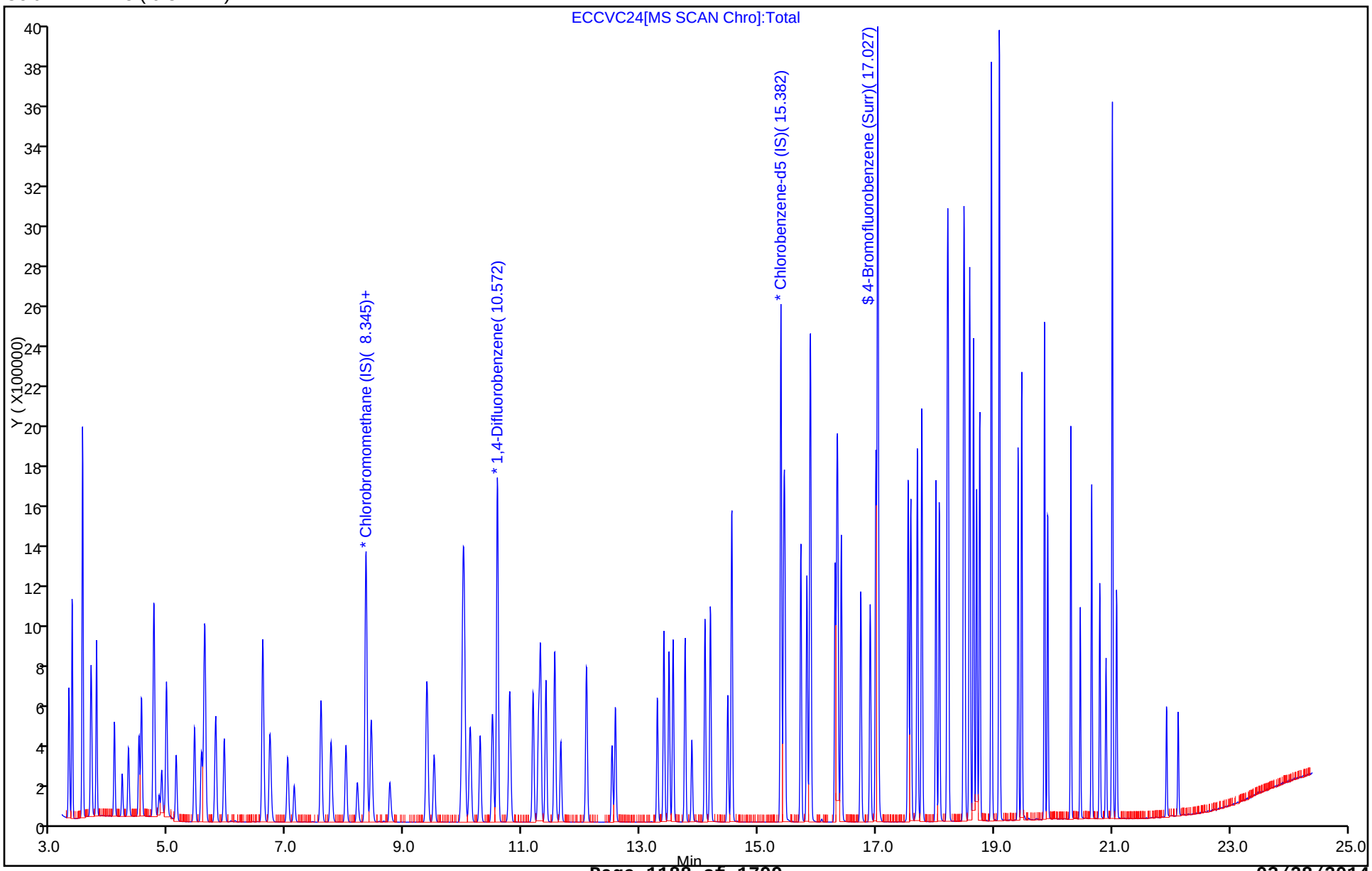
Report Date: 24-Mar-2014 13:17:08 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D

Injection Date:	24-Mar-2014 09:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096		1.44	2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo(b)thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: LCS/ICV,,3,,,
Misc. Info.: J031114I,TO15,,140-0000516-014
Operator ID: 7126 Instrument ID: MJ
Sublist:

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

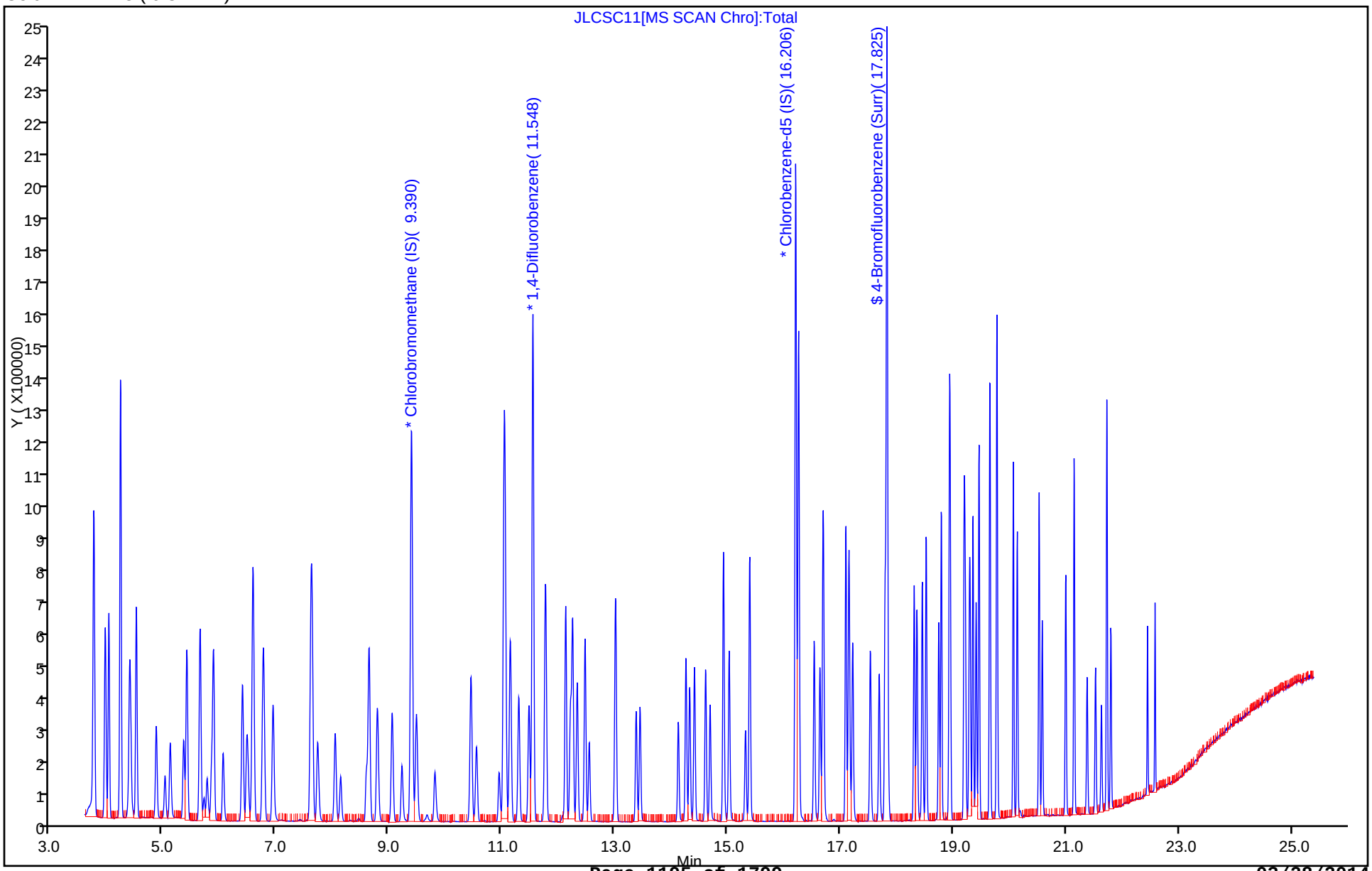
Report Date: 14-Mar-2014 13:55:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D

Injection Date:	11-Mar-2014 23:33:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ICV	Lab Sample ID:	ICV 140-949/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4096		1.99	2.00	-0.8	30.0
Propene	Ave	1.227	1.166		1.90	2.00	-5.0	30.0
Dichlorodifluoromethane	Ave	3.962	4.068		2.05	2.00	2.7	30.0
Chloromethane	Ave	0.4501	0.4425		1.97	2.00	-1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.180		2.13	2.00	6.4	30.0
Acetaldehyde	Ave	0.3947	0.3107		7.88	10.0	-21.3	50.0
Vinyl chloride	Ave	1.483	1.475		1.99	2.00	-0.5	30.0
1,3-Butadiene	Ave	1.030	1.055		2.05	2.00	2.3	30.0
Butane	Ave	2.110	2.032		1.93	2.00	-3.7	30.0
Bromomethane	Ave	1.508	1.445		1.92	2.00	-4.2	30.0
Chloroethane	Ave	0.6822	0.6592		1.93	2.00	-3.4	30.0
Ethanol	Ave	0.3211	0.3171		9.88	10.0	-1.3	50.0
Vinyl bromide	Ave	1.283	1.347		2.10	2.00	5.0	30.0
2-Methylbutane	Ave	1.699	1.623		1.91	2.00	-4.4	30.0
Acrolein	Ave	0.3266	0.2486		1.52	2.00	-23.9	30.0
Trichlorofluoromethane	Ave	3.481	3.524		2.03	2.00	1.2	30.0
Acetonitrile	Ave	0.3607	0.3322		1.84	2.00	-7.9	30.0
Acetone	Ave	0.5686	0.3576		1.26	2.00	-37.1*	30.0
Isopropyl alcohol	Ave	1.501	1.417		1.89	2.00	-5.6	30.0
Pentane	Ave	0.2152	0.2125		1.98	2.00	-1.3	30.0
Ethyl ether	Ave	1.047	0.9689		1.85	2.00	-7.4	30.0
1,1-Dichloroethene	Ave	1.123	1.284		2.29	2.00	14.3	30.0
tert-Butyl alcohol	Ave	1.849	1.568		1.70	2.00	-15.2	30.0
Acrylonitrile	Ave	0.5945	0.5642		1.90	2.00	-5.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.701		2.24	2.00	12.0	30.0
Methylene Chloride	Ave	1.070	1.131		2.12	2.00	5.7	30.0
3-Chloropropene	Ave	1.113	0.9759		1.75	2.00	-12.3	30.0
Carbon disulfide	Ave	3.763	3.773		2.01	2.00	0.3	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.270		1.88	2.00	-6.1	30.0
2-Methylpentane	Ave	3.087	2.877		1.86	2.00	-6.8	50.0
Methyl tert-butyl ether	Ave	2.042	2.128		2.09	2.00	4.3	30.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	30.0
Vinyl acetate	Ave	1.849	1.805		1.95	2.00	-2.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3716		1.96	2.00	-1.9	30.0
Hexane	Ave	1.075	0.9554		1.78	2.00	-11.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.199		2.08	2.00	3.9	30.0
Ethyl acetate	Ave	1.649	1.701		2.06	2.00	3.2	30.0
Chloroform	Ave	2.331	2.352		2.02	2.00	0.9	30.0
Tetrahydrofuran	Ave	0.9265	0.9302		2.01	2.00	0.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.419		1.99	2.00	-0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3373		2.18	2.00	8.7	30.0
1-Butanol	Ave	0.0874	0.0801		1.83	2.00	-8.4	30.0
Benzene	Ave	0.6863	0.7145		2.08	2.00	4.1	30.0
Cyclohexane	Ave	0.1354	0.1398		2.07	2.00	3.2	30.0
Carbon tetrachloride	Ave	0.5669	0.6030		2.13	2.00	6.4	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1639		2.03	2.00	1.2	50.0
Thiophene	Ave	0.4238	0.4505		2.13	2.00	6.3	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.219		2.08	2.00	4.0	30.0
Heptane	Ave	0.2427	0.2556		2.11	2.00	5.3	30.0
1,2-Dichloropropane	Ave	0.2320	0.2309		1.99	2.00	-0.5	30.0
Trichloroethene	Ave	0.3329	0.3567		2.14	2.00	7.1	30.0
Dibromomethane	Ave	0.3053	0.3130		2.05	2.00	2.5	30.0
Bromodichloromethane	Ave	0.4844	0.5274		2.18	2.00	8.9	30.0
1,4-Dioxane	Ave	0.0831	0.0820		1.97	2.00	-1.4	30.0
Methyl methacrylate	Ave	0.2081	0.2272		2.18	2.00	9.2	30.0
Methylcyclohexane	Ave	0.4620	0.4706		2.04	2.00	1.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4224		2.02	2.00	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3260		1.98	2.00	-0.9	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3518		2.12	2.00	6.1	30.0
Toluene	Ave	0.7420	0.8026		2.16	2.00	8.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2444		2.08	2.00	3.9	30.0
2-Methylthiophene	Ave	0.6668	0.6902		2.07	2.00	3.5	50.0
3-Methylthiophene	Ave	0.6690	0.7078		2.12	2.00	5.8	50.0
2-Hexanone	Ave	0.2430	0.2555		2.10	2.00	5.1	30.0
Octane	Ave	0.2723	0.3022		2.22	2.00	11.0	30.0
Dibromochloromethane	Ave	0.5191	0.5710		2.20	2.00	10.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4195		2.08	2.00	4.1	30.0
Tetrachloroethene	Ave	0.3457	0.3752		2.17	2.00	8.5	30.0
Chlorobenzene	Ave	0.6339	0.6444		2.03	2.00	1.7	30.0
2,3-Dimethylheptane	Ave	0.8171	0.9112		2.23	2.00	11.5	50.0
Ethylbenzene	Ave	0.8196	0.9078		2.22	2.00	10.8	30.0
2-Ethylthiophene	Ave	0.6423	0.6947		2.16	2.00	8.1	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7072		4.28	4.00	6.9	30.0
Nonane	Ave	0.5146	0.5263		2.05	2.00	2.3	30.0
Bromoform	Ave	0.4101	0.4236		2.07	2.00	3.3	30.0
Styrene	Ave	0.4542	0.5203		2.29	2.00	14.5	30.0
o-Xylene	Ave	0.6705	0.7349		2.19	2.00	9.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6044		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1460		2.22	2.00	11.2	30.0
Isopropylbenzene	Ave	0.9553	1.027		2.15	2.00	7.5	30.0
Propylbenzene	Ave	0.2519	0.2776		2.20	2.00	10.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2723		2.07	2.00	3.6	30.0
4-Ethyltoluene	Ave	0.8909	1.000		2.25	2.00	12.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4917		2.20	2.00	9.8	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3674		2.29	2.00	14.5	30.0
Decane	Ave	0.5485	0.5689		2.08	2.00	3.7	30.0
tert-Butylbenzene	Ave	0.8748	0.9355		2.14	2.00	6.9	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.8556		2.20	2.00	10.1	30.0
sec-Butylbenzene	Ave	1.140	1.248		2.19	2.00	9.5	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.4974		1.95	2.00	-2.6	30.0
Benzyl chloride	Ave	0.5802	0.6061		2.09	2.00	4.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4594		1.93	2.00	-3.3	30.0
4-Isopropyltoluene	Ave	0.9141	0.997		2.18	2.00	9.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7128		2.25	2.00	12.6	50.0
Butylcyclohexane	Ave	0.7225	0.7375		2.04	2.00	2.1	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.4908		1.97	2.00	-1.7	30.0
Indane	Ave	0.7098	0.7806		2.20	2.00	10.0	50.0
Butylbenzene	Ave	0.8482	0.8771		2.07	2.00	3.4	30.0
Indene	Ave	0.6202	0.7073		2.28	2.00	14.0	50.0
Undecane	Ave	0.5525	0.5700		2.06	2.00	3.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.8829		2.06	2.00	3.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.9328		2.17	2.00	8.3	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.5726		2.04	2.00	1.9	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7364		2.12	2.00	5.8	50.0
Dodecane	Ave	0.5721	0.5612		1.96	2.00	-1.9	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2136		1.92	2.00	-3.9	30.0
Naphthalene	Ave	0.6294	0.6073		1.93	2.00	-3.5	30.0
Benzo(b)thiophene	Ave	0.4265	0.3982		1.87	2.00	-6.6	50.0
Hexachlorobutadiene	Ave	0.4540	0.3874		1.71	2.00	-14.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2689		1.87	2.00	-6.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0422		7.89	12.5	-36.9	50.0
1-Methylnaphthalene	Ave	0.0690	0.0448		8.12	12.5	-35.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7019		3.97	4.00	-0.8	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Mar-2014 10:16:30 ALS Bottle#: 8 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J031814,TO15,,140-0000527-002
Operator ID: 403648 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 13:34:00 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 13:34:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	91	363327	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	92	1539618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1280996	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	89	899094	3.97	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	74454	1.99	
7 Propene	41	3.971	3.971	0.0	99	211889	1.90	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	739325	2.05	
9 Chloromethane	52	4.229	4.229	0.0	98	80436	1.97	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.234	0.0	91	578020	2.13	
11 Acetaldehyde	44	4.396	4.396	0.0	99	282339	7.88	
12 Vinyl chloride	62	4.417	4.417	0.0	99	268105	1.99	
14 Butadiene	54	4.514	4.514	0.0	67	191679	2.05	
13 Butane	43	4.514	4.514	0.0	85	369310	1.93	
15 Bromomethane	94	4.869	4.869	0.0	99	262661	1.92	
16 Chloroethane	64	5.025	5.025	0.0	99	119824	1.93	
17 Ethanol	31	5.116	5.116	0.0	95	288164	9.88	
18 Vinyl bromide	106	5.353	5.353	0.0	97	244913	2.10	
19 2-Methylbutane	43	5.407	5.407	0.0	92	295057	1.91	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	97	640547	2.03	
21 Acrolein	56	5.644	5.644	0.0	66	45177	1.52	
22 Acetonitrile	40	5.713	5.713	0.0	98	60382	1.84	
23 Acetone	58	5.767	5.767	0.0	91	65004	1.26	
24 Isopropyl alcohol	45	5.848	5.848	0.0	97	257527	1.89	
25 Pentane	72	5.880	5.880	0.0	97	38620	1.98	
26 Ethyl ether	31	6.047	6.047	0.0	93	176110	1.85	
27 1,1-Dichloroethene	96	6.391	6.391	0.0	97	233321	2.29	
28 2-Methyl-2-propanol	59	6.472	6.472	0.0	95	284922	1.70	
29 Acrylonitrile	53	6.488	6.488	0.0	93	102541	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.580	0.0	95	490898	2.24	
31 Methylene Chloride	84	6.757	6.757	0.0	95	205616	2.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.773	6.773	0.0	92	177385	1.75	
33 Carbon disulfide	76	6.935	6.935	0.0	100	685693	2.01	
34 trans-1,2-Dichloroethene	96	7.602	7.602	0.0	98	230780	1.88	
35 2-Methylpentane	43	7.623	7.623	0.0	94	522840	1.86	
36 Methyl tert-butyl ether	73	7.725	7.725	0.0	96	386874	2.09	
37 1,1-Dichloroethane	63	8.037	8.037	0.0	100	382119	1.99	
38 Vinyl acetate	43	8.134	8.134	0.0	100	328023	1.95	
39 2-Butanone (MEK)	72	8.586	8.586	0.0	99	67540	1.96	
40 Hexane	56	8.635	8.635	0.0	90	173661	1.78	
41 cis-1,2-Dichloroethene	96	9.043	9.043	0.0	95	217993	2.08	
42 Ethyl acetate	43	9.216	9.216	0.0	98	309230	2.06	
43 Chloroform	83	9.393	9.393	0.0	96	427552	2.02	
44 Tetrahydrofuran	42	9.802	9.802	0.0	94	169081	2.01	
45 1,1,1-Trichloroethane	97	10.442	10.442	0.0	96	439761	1.99	
46 1,2-Dichloroethane	62	10.539	10.539	0.0	96	259801	2.18	
47 n-Butanol	31	10.942	10.942	0.0	86	61685	1.83	
48 Benzene	78	11.023	11.023	0.0	97	550283	2.08	
49 Cyclohexane	69	11.034	11.034	0.0	92	107676	2.07	
50 Carbon tetrachloride	117	11.050	11.050	0.0	97	464463	2.13	
51 2,3-Dimethylpentane	71	11.136	11.136	0.0	91	126213	2.03	
52 Thiophene	84	11.292	11.292	0.0	96	346965	2.13	
53 Isooctane	57	11.760	11.760	0.0	98	938606	2.08	
54 n-Heptane	71	12.120	12.120	0.0	93	196847	2.11	
55 1,2-Dichloropropane	63	12.206	12.206	0.0	87	177841	1.99	
56 Trichloroethene	130	12.244	12.244	0.0	93	274757	2.14	
57 Dibromomethane	93	12.325	12.325	0.0	92	241107	2.05	
59 Dichlorobromomethane	83	12.465	12.465	0.0	99	406186	2.18	
58 1,4-Dioxane	88	12.470	12.470	0.0	88	63123	1.97	
60 Methyl methacrylate	41	12.540	12.540	0.0	91	175009	2.18	
61 Methylcyclohexane	83	13.008	13.008	0.0	96	362434	2.04	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.368	0.0	98	325315	2.02	
63 cis-1,3-Dichloropropene	75	13.438	13.438	0.0	95	251087	1.98	
64 trans-1,3-Dichloropropene	75	14.116	14.116	0.0	99	225457	2.12	
65 Toluene	91	14.256	14.256	0.0	93	514315	2.16	
66 1,1,2-Trichloroethane	83	14.321	14.321	0.0	97	156606	2.08	
67 2-Methylthiophene	97	14.407	14.407	0.0	98	442293	2.07	
68 3-Methylthiophene	97	14.600	14.600	0.0	99	453583	2.12	
69 2-Hexanone	58	14.681	14.681	0.0	93	163752	2.10	
70 n-Octane	85	14.923	14.923	0.0	94	193649	2.22	
71 Chlorodibromomethane	129	15.020	15.020	0.0	96	365933	2.20	
72 Ethylene Dibromide	107	15.310	15.310	0.0	98	268810	2.08	
73 Tetrachloroethene	129	15.386	15.386	0.0	93	240416	2.17	
75 Chlorobenzene	112	16.246	16.246	0.0	91	412961	2.03	
74 2,3-Dimethylheptane	43	16.252	16.252	0.0	95	583907	2.23	
76 Ethylbenzene	91	16.532	16.532	0.0	98	581730	2.22	
77 2-Ethylthiophene	97	16.628	16.628	0.0	98	445183	2.16	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	100	906341	4.28	
79 n-Nonane	57	17.091	17.091	0.0	92	337288	2.05	
81 Bromoform	173	17.145	17.145	0.0	94	271427	2.07	
80 Styrene	104	17.150	17.150	0.0	98	333418	2.29	
82 o-Xylene	91	17.215	17.215	0.0	96	470942	2.19	
83 1,1,2,2-Tetrachloroethane	83	17.527	17.527	0.0	99	387345	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.683	17.683	0.0	97	93583	2.22	
85 Isopropylbenzene	105	17.785	17.785	0.0	97	657951	2.15	
86 N-Propylbenzene	120	18.301	18.301	0.0	98	177878	2.20	
87 2-Chlorotoluene	126	18.350	18.350	0.0	97	174479	2.07	
88 4-Ethyltoluene	105	18.447	18.447	0.0	98	640634	2.25	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	92	315099	2.20	
90 Alpha Methyl Styrene	118	18.737	18.737	0.0	84	235456	2.29	
91 n-Decane	57	18.786	18.786	0.0	89	364564	2.08	
92 tert-Butylbenzene	119	18.931	18.931	0.0	88	599505	2.14	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	94	548295	2.20	
94 sec-Butylbenzene	105	19.189	19.189	0.0	98	799931	2.19	
95 1,3-Dichlorobenzene	146	19.211	19.211	0.0	99	318747	1.95	
96 Benzyl chloride	91	19.280	19.280	0.0	98	388432	2.09	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	93	294368	1.93	
98 4-Isopropyltoluene	119	19.345	19.345	0.0	88	639055	2.18	
99 1,2,3-Trimethylbenzene	105	19.404	19.404	0.0	98	456765	2.25	
100 Butylcyclohexane	83	19.453	19.453	0.0	94	472603	2.04	
101 2,3-Dihydroindene	117	19.646	19.646	0.0	89	500227	2.20	
102 1,2-Dichlorobenzene	146	19.646	19.646	0.0	78	314494	1.97	
103 n-Butylbenzene	91	19.770	19.770	0.0	96	562102	2.07	
104 Indene	116	19.775	19.775	0.0	86	453255	2.28	
105 Undecane	57	20.066	20.066	0.0	96	365271	2.06	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.130	20.130	0.0	97	565787	2.06	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.523	0.0	97	597770	2.17	
107 1,2,3,5-Tetramethylbenzene	119	20.577	20.577	0.0	95	366968	2.04	
109 1,2,3,4-Tetramethylbenzene	119	20.991	20.991	0.0	96	471932	2.12	
110 Dodecane	57	21.142	21.142	0.0	95	359633	1.96	
111 1,2,4-Trichlorobenzene	180	21.373	21.373	0.0	94	136853	1.92	
112 Naphthalene	128	21.518	21.518	0.0	99	389180	1.93	
113 Benzo(b)thiophene	134	21.626	21.626	0.0	99	255180	1.87	
114 Hexachlorobutadiene	225	21.723	21.723	0.0	84	248264	1.71	
115 1,2,3-Trichlorobenzene	180	21.793	21.793	0.0	95	172325	1.87	
116 2-Methylnaphthalene	142	22.444	22.444	0.0	98	169073	7.89	
117 1-Methylnaphthalene	142	22.573	22.573	0.0	97	179390	8.12	
139 Isopropyl ether	45	8.785	8.785	0.0	97	513963	NR	
142 Tert-butyl ethyl ether	59	9.474	9.474	0.0	96	458428	NR	
140 Tert-amyl methyl ether	73	11.469	11.469	0.0	93	431598	NR	
A 118 C6 Range	1	8.635	8.575 -	8.694	0	1986168	1.87	
A 122 Toluene Range	1	14.256	14.226 -	14.286	0	1236663	2.14	
A 123 C8 Range	1	14.915	14.869 -	14.988	0	1847293	2.06	
S 124 Xylenes, Total	100				0		6.47	

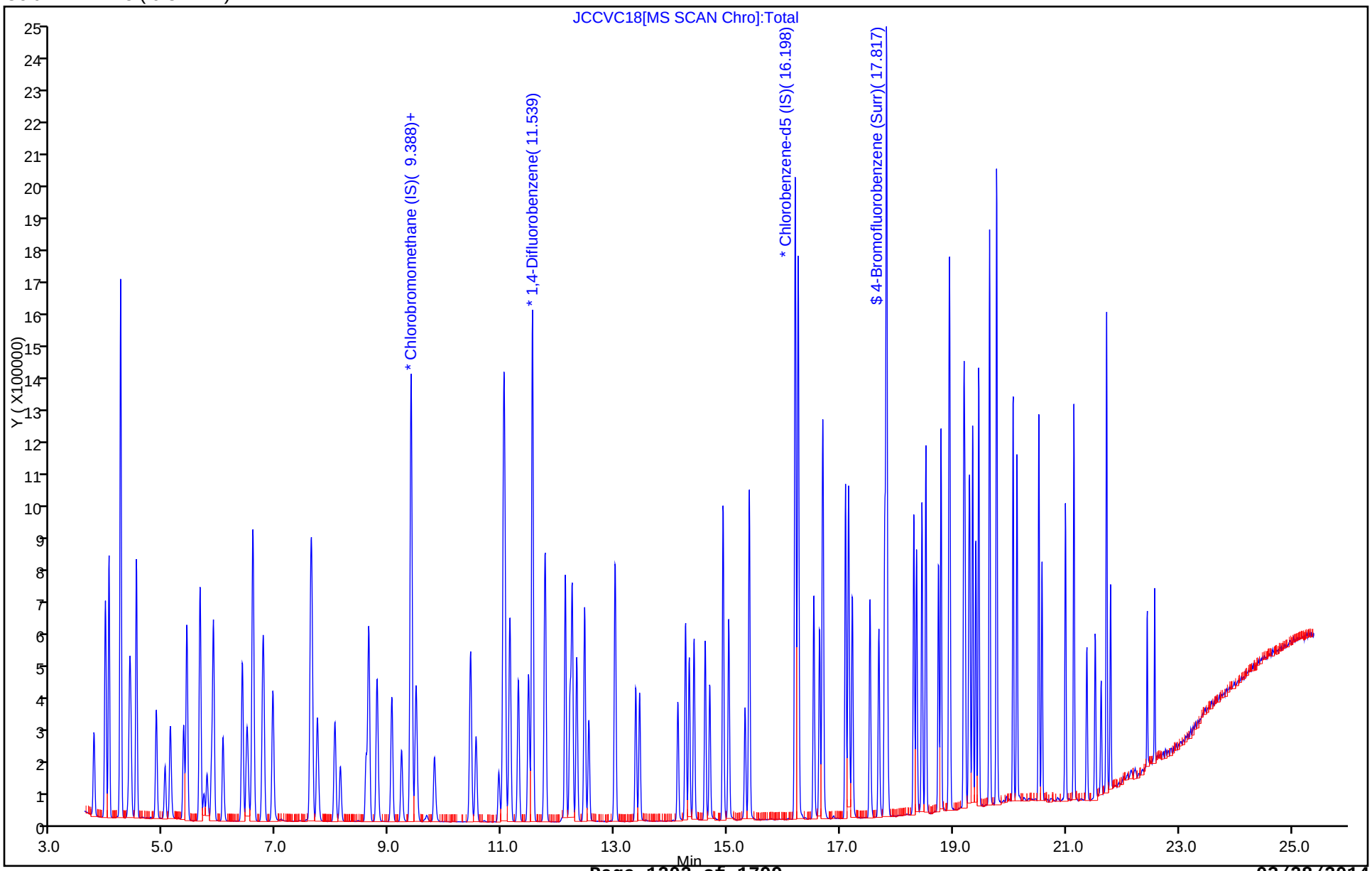
Report Date: 18-Mar-2014 13:34:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18.D

Injection Date:	18-Mar-2014 10:16:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4222		2.05	2.00	2.3	30.0
Propene	Ave	1.227	1.244		2.03	2.00	1.5	30.0
Dichlorodifluoromethane	Ave	3.962	4.275		2.16	2.00	7.9	30.0
Chloromethane	Ave	0.4501	0.4604		2.05	2.00	2.3	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.337		2.23	2.00	11.6	30.0
Acetaldehyde	Ave	0.3947	0.3297		8.36	10.0	-16.5	50.0
Vinyl chloride	Ave	1.483	1.517		2.05	2.00	2.3	30.0
1,3-Butadiene	Ave	1.030	1.078		2.09	2.00	4.7	30.0
Butane	Ave	2.110	2.093		1.98	2.00	-0.8	30.0
Bromomethane	Ave	1.508	1.488		1.97	2.00	-1.4	30.0
Chloroethane	Ave	0.6822	0.6600		1.94	2.00	-3.3	30.0
Ethanol	Ave	0.3211	0.3404		10.6	10.0	6.0	50.0
Vinyl bromide	Ave	1.283	1.387		2.16	2.00	8.2	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.1	30.0
Acrolein	Ave	0.3266	0.2674		1.64	2.00	-18.1	30.0
Trichlorofluoromethane	Ave	3.481	3.659		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3607	0.3565		1.98	2.00	-1.2	30.0
Acetone	Ave	0.5686	0.4026		1.42	2.00	-29.2	30.0
Isopropyl alcohol	Ave	1.501	1.497		1.99	2.00	-0.3	30.0
Pentane	Ave	0.2152	0.2179		2.03	2.00	1.3	30.0
Ethyl ether	Ave	1.047	1.042		1.99	2.00	-0.4	30.0
1,1-Dichloroethene	Ave	1.123	1.330		2.37	2.00	18.4	30.0
tert-Butyl alcohol	Ave	1.849	1.642		1.78	2.00	-11.2	30.0
Acrylonitrile	Ave	0.5945	0.6174		2.08	2.00	3.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.822		2.34	2.00	17.0	30.0
Methylene Chloride	Ave	1.070	1.176		2.20	2.00	9.9	30.0
3-Chloropropene	Ave	1.113	1.001		1.80	2.00	-10.0	30.0
Carbon disulfide	Ave	3.763	3.881		2.06	2.00	3.1	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.328		1.96	2.00	-1.8	30.0
2-Methylpentane	Ave	3.087	3.005		1.95	2.00	-2.6	50.0
Methyl tert-butyl ether	Ave	2.042	2.307		2.26	2.00	13.0	30.0
1,1-Dichloroethane	Ave	2.111	2.162		2.05	2.00	2.4	30.0
Vinyl acetate	Ave	1.849	1.986		2.15	2.00	7.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.4062		2.15	2.00	7.3	30.0
Hexane	Ave	1.075	0.9887		1.84	2.00	-8.1	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.241		2.15	2.00	7.4	30.0
Ethyl acetate	Ave	1.649	1.877		2.28	2.00	13.8	30.0
Chloroform	Ave	2.331	2.385		2.05	2.00	2.3	30.0
Tetrahydrofuran	Ave	0.9265	1.020		2.20	2.00	10.1	30.0
1,1,1-Trichloroethane	Ave	2.429	2.476		2.04	2.00	1.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3255		2.10	2.00	4.9	30.0
1-Butanol	Ave	0.0874	0.0865		1.98	2.00	-1.1	30.0
Benzene	Ave	0.6863	0.6920		2.02	2.00	0.8	30.0
Cyclohexane	Ave	0.1354	0.1461		2.16	2.00	7.8	30.0
Carbon tetrachloride	Ave	0.5669	0.6096		2.15	2.00	7.5	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1697		2.10	2.00	4.8	50.0
Thiophene	Ave	0.4238	0.4460		2.11	2.00	5.2	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.250		2.13	2.00	6.7	30.0
Heptane	Ave	0.2427	0.2623		2.16	2.00	8.1	30.0
1,2-Dichloropropane	Ave	0.2320	0.2406		2.08	2.00	3.7	30.0
Trichloroethene	Ave	0.3329	0.3680		2.21	2.00	10.5	30.0
Dibromomethane	Ave	0.3053	0.3189		2.09	2.00	4.5	30.0
Bromodichloromethane	Ave	0.4844	0.5320		2.20	2.00	9.8	30.0
1,4-Dioxane	Ave	0.0831	0.0889		2.14	2.00	7.0	30.0
Methyl methacrylate	Ave	0.2081	0.2512		2.42	2.00	20.7	30.0
Methylcyclohexane	Ave	0.4620	0.4835		2.09	2.00	4.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4682		2.23	2.00	11.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3401		2.07	2.00	3.3	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3731		2.25	2.00	12.6	30.0
Toluene	Ave	0.7420	0.8478		2.29	2.00	14.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2568		2.19	2.00	9.2	30.0
2-Methylthiophene	Ave	0.6668	0.7357		2.21	2.00	10.3	50.0
3-Methylthiophene	Ave	0.6690	0.7402		2.21	2.00	10.7	50.0
2-Hexanone	Ave	0.2430	0.2755		2.27	2.00	13.4	30.0
Octane	Ave	0.2723	0.3061		2.25	2.00	12.4	30.0
Dibromochloromethane	Ave	0.5191	0.5655		2.18	2.00	8.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4431		2.20	2.00	9.9	30.0
Tetrachloroethene	Ave	0.3457	0.3791		2.19	2.00	9.7	30.0
Chlorobenzene	Ave	0.6339	0.6726		2.12	2.00	6.1	30.0
2,3-Dimethylheptane	Ave	0.8171	0.8796		2.15	2.00	7.6	50.0
Ethylbenzene	Ave	0.8196	0.9888		2.41	2.00	20.6	30.0
2-Ethylthiophene	Ave	0.6423	0.7532		2.35	2.00	17.3	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7687		4.65	4.00	16.2	30.0
Nonane	Ave	0.5146	0.5432		2.11	2.00	5.6	30.0
Bromoform	Ave	0.4101	0.4466		2.18	2.00	8.9	30.0
Styrene	Ave	0.4542	0.5438		2.40	2.00	19.7	30.0
o-Xylene	Ave	0.6705	0.7903		2.36	2.00	17.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6453		2.36	2.00	17.8	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1571		2.39	2.00	19.6	30.0
Isopropylbenzene	Ave	0.9553	1.116		2.34	2.00	16.8	30.0
Propylbenzene	Ave	0.2519	0.2992		2.38	2.00	18.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2919		2.22	2.00	11.0	30.0
4-Ethyltoluene	Ave	0.8909	1.083		2.43	2.00	21.6	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.5307		2.37	2.00	18.5	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3932		2.45	2.00	22.5	30.0
Decane	Ave	0.5485	0.6016		2.19	2.00	9.7	30.0
tert-Butylbenzene	Ave	0.8748	1.013		2.32	2.00	15.8	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.9230		2.38	2.00	18.8	30.0
sec-Butylbenzene	Ave	1.140	1.334		2.34	2.00	17.0	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.5303		2.08	2.00	3.9	30.0
Benzyl chloride	Ave	0.5802	0.6362		2.19	2.00	9.7	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4927		2.07	2.00	3.7	30.0
4-Isopropyltoluene	Ave	0.9141	1.062		2.32	2.00	16.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7671		2.43	2.00	21.2	50.0
Butylcyclohexane	Ave	0.7225	0.7730		2.14	2.00	7.0	50.0
Indane	Ave	0.7098	0.8343		2.35	2.00	17.6	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.5200		2.08	2.00	4.1	30.0
Butylbenzene	Ave	0.8482	0.9271		2.19	2.00	9.3	30.0
Indene	Ave	0.6202	0.7485		2.42	2.00	20.7	50.0
Undecane	Ave	0.5525	0.6144		2.23	2.00	11.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.9348		2.18	2.00	9.1	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	1.014		2.36	2.00	17.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.6157		2.19	2.00	9.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7885		2.27	2.00	13.2	50.0
Dodecane	Ave	0.5721	0.6042		2.11	2.00	5.6	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2250		2.03	2.00	1.3	30.0
Naphthalene	Ave	0.6294	0.6433		2.05	2.00	2.2	30.0
Benzo(b)thiophene	Ave	0.4265	0.4204		1.97	2.00	-1.4	50.0
Hexachlorobutadiene	Ave	0.4540	0.4111		1.81	2.00	-9.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2837		1.98	2.00	-1.2	30.0
2-Methylnaphthalene	Ave	0.0669	0.0451		8.42	12.5	-32.6	50.0
1-Methylnaphthalene	Ave	0.0690	0.0482		8.73	12.5	-30.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.6922		3.91	4.00	-2.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J031914,TO15,,140-0000532-002
Operator ID: 403648 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 -	8.702	0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 -	14.283	0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 -	14.985	0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

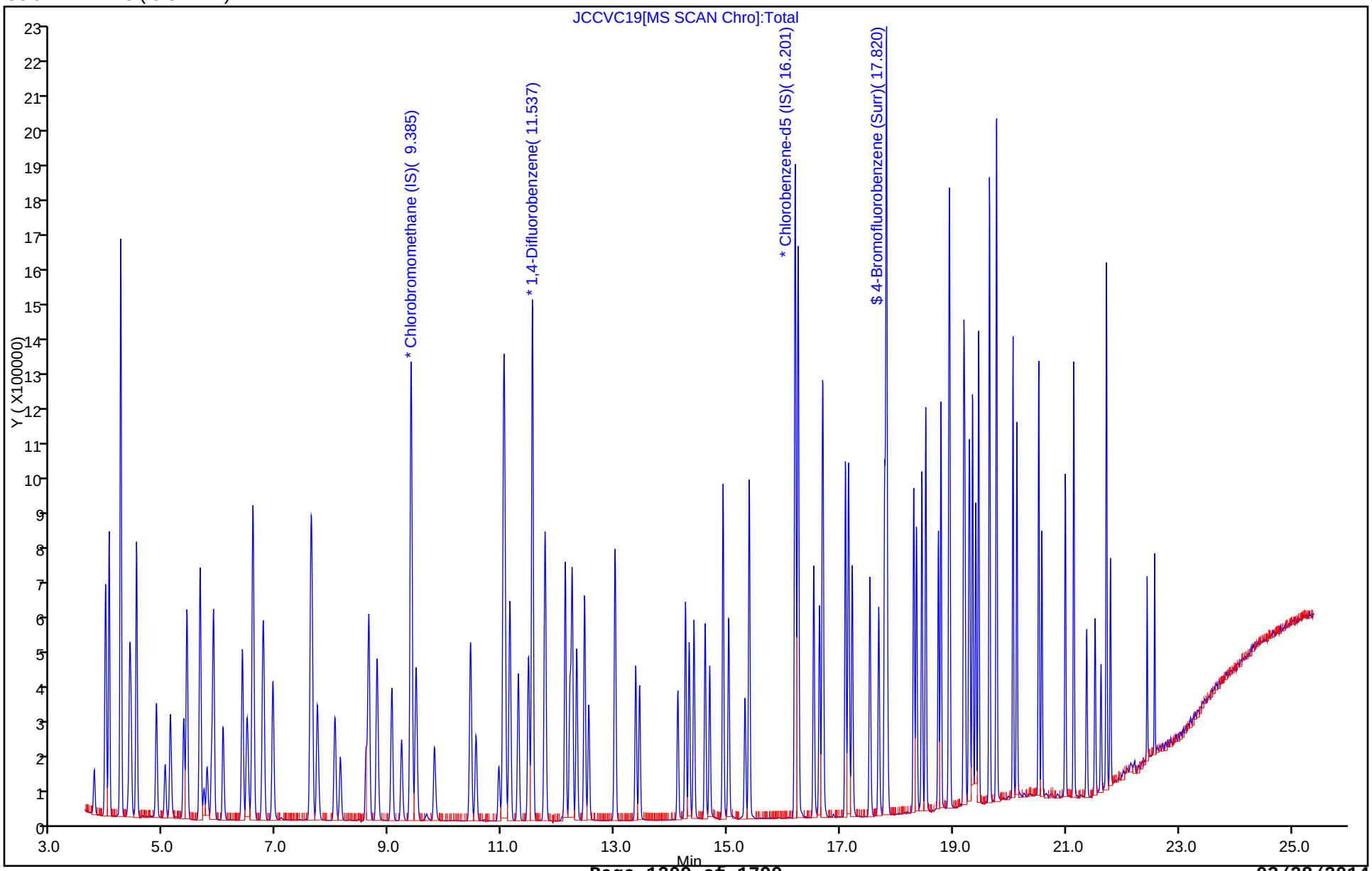
Report Date: 19-Mar-2014 17:19:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D

Injection Date:	19-Mar-2014 11:06:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J032114,TO15,,140-0000540-002
Operator ID: 7126 Instrument ID: MJ
Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 -	8.695	0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 -	14.277	0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 -	14.973	0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

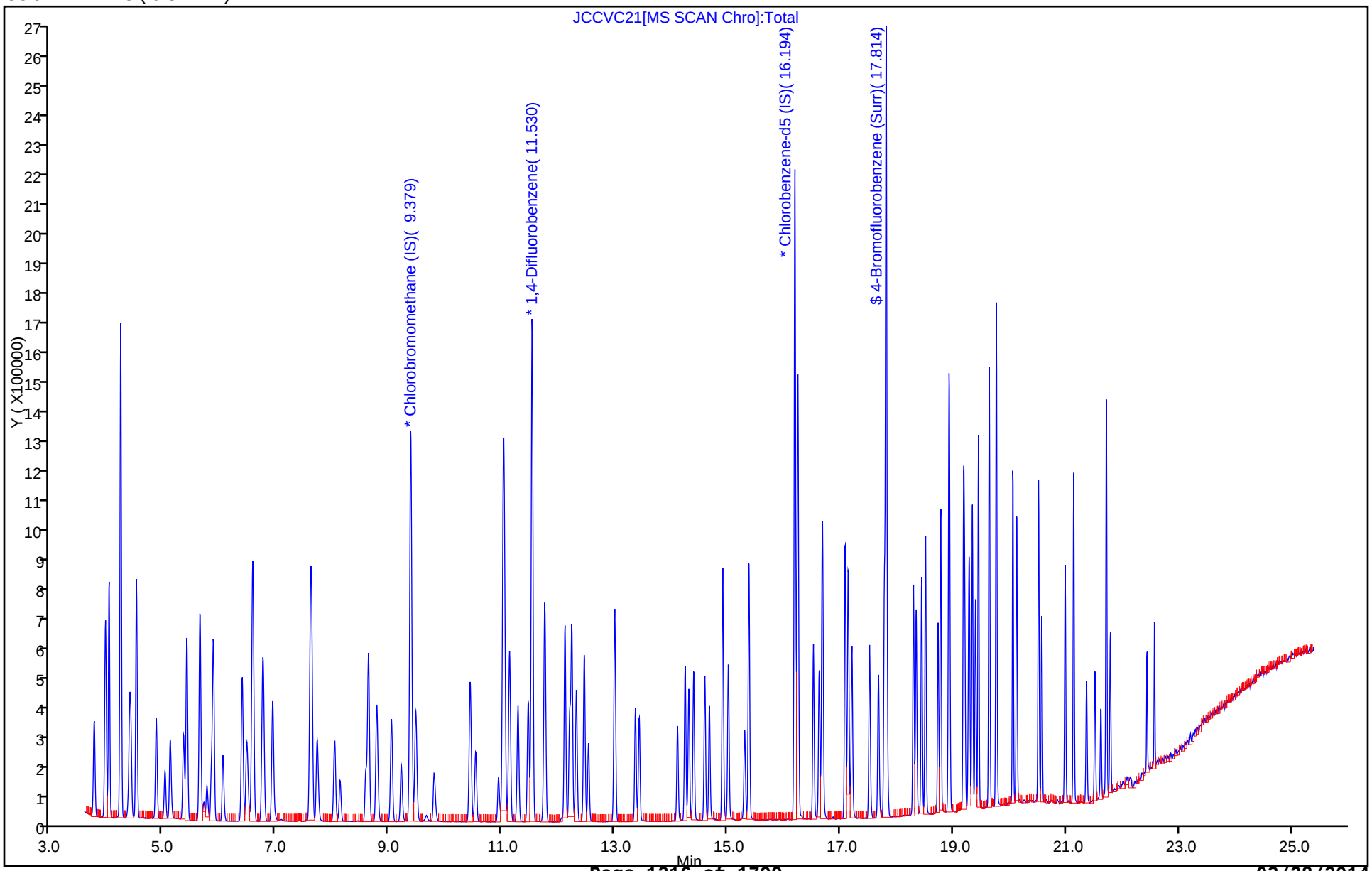
Report Date: 21-Mar-2014 14:37:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D

Injection Date:	21-Mar-2014 11:30:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jan-2014 13:40:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E012814I,BFB,140-0000390-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jan-2014 13:09:09	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	30-Jan-2014 11:32:37		

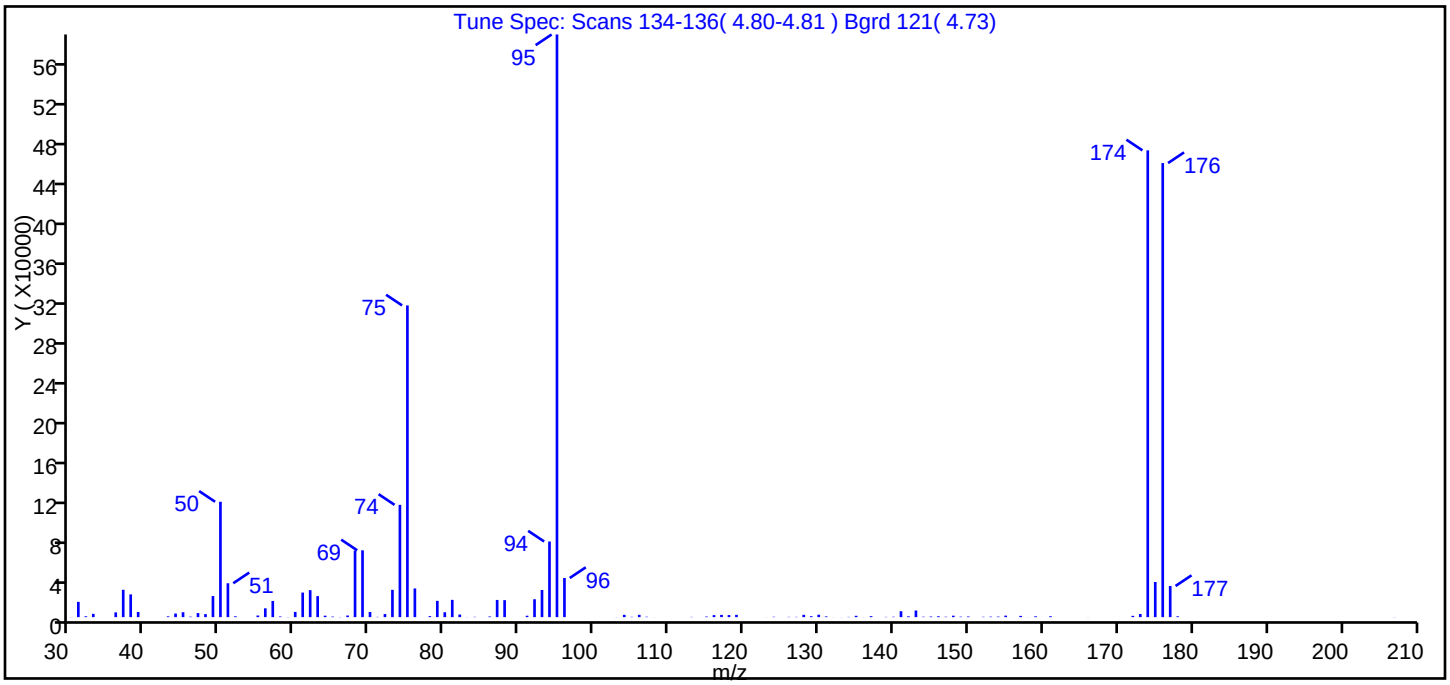
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rslt\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

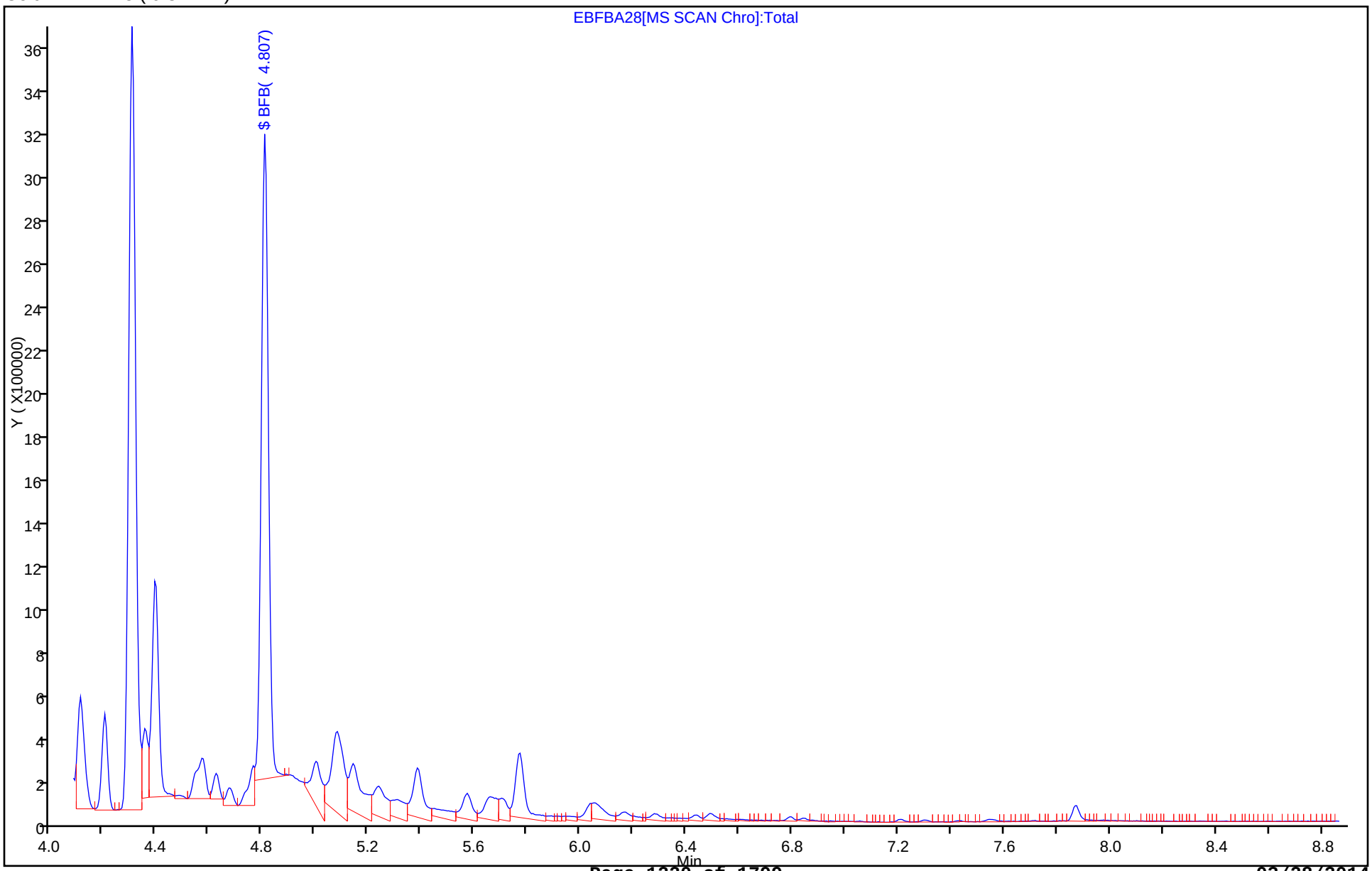
Report Date: 30-Jan-2014 13:09:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D

Injection Date:	28-Jan-2014 13:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Mar-2014 08:44:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	E032414,BFB,,140-0000541-001				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 13:17:14	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 13:17:14		

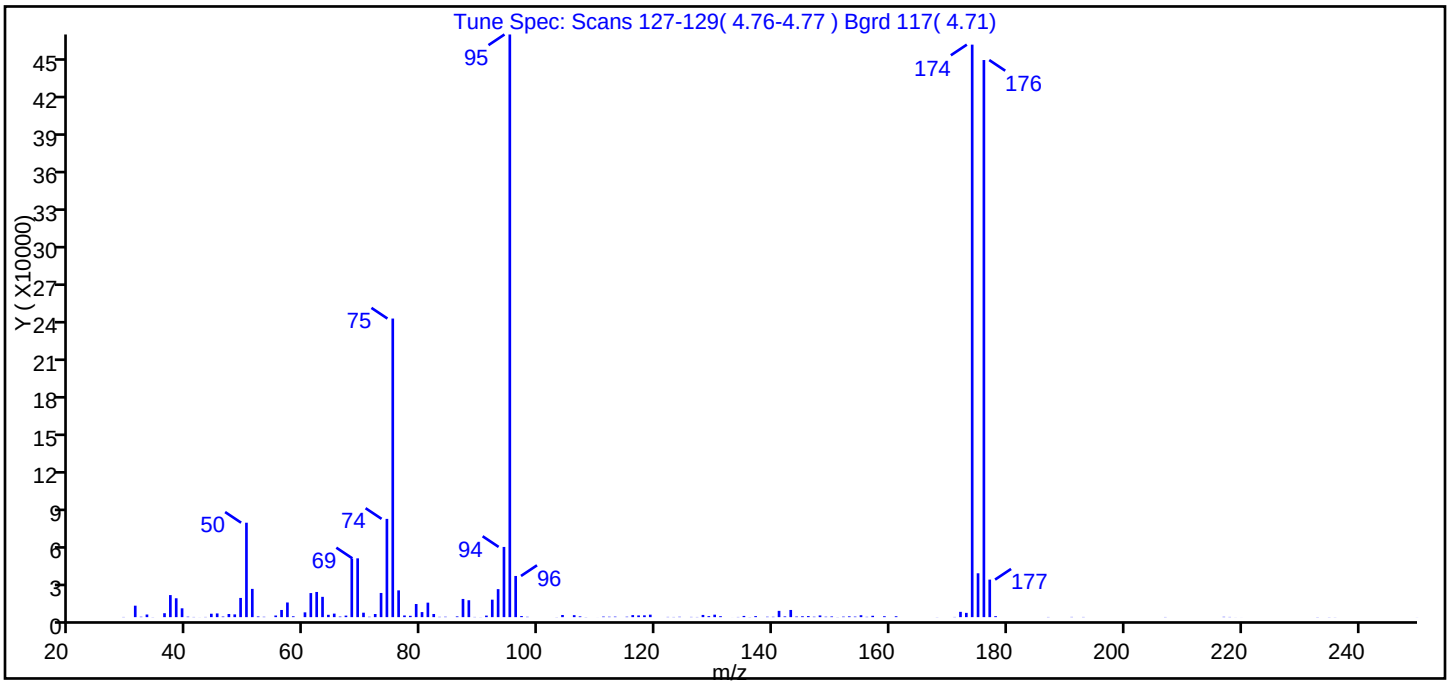
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 132 BFB	95	4.769	4.769	0.0	0	1000012	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D
Injection Date: 24-Mar-2014 08:44:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.20
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.70 (0.70)
174	50.00 - 120.00% of mass 95	98.30
175	5.00 - 9.00% of mass 174	7.50 (7.70)
176	95.00 - 101.00% of mass 174	95.60 (97.30)
177	5.00 - 9.00% of mass 176	6.40 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:44:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	148	67.00	1217	107.00	611	148.00	1353
31.00	9093	68.00	46480	108.00	102	149.00	349
32.00	314	69.00	46664	110.00	23	150.00	549
33.00	2086	70.00	3530	111.00	435	151.00	85
34.00	88	71.00	302	112.00	329	152.00	409
36.00	3115	72.00	2487	113.00	402	153.00	621
37.00	17504	73.00	19184	115.00	340	154.00	428
38.00	14977	74.00	77976	116.00	1616	155.00	1531
39.00	7011	75.00	236928	117.00	1363	156.00	243
40.00	362	76.00	21256	118.00	1443	157.00	1077
41.00	151	77.00	1328	119.00	1953	159.00	726
42.00	40	78.00	1057	122.00	188	161.00	712
43.00	164	79.00	10420	123.00	146	168.00	72
44.00	2714	80.00	4014	124.00	279	171.00	154
45.00	2946	81.00	11506	126.00	184	172.00	4200
46.00	465	82.00	2507	127.00	143	173.00	3395
47.00	2495	83.00	235	128.00	1748	174.00	454272
48.00	2189	84.00	316	129.00	795	175.00	34808
49.00	15251	86.00	600	130.00	1952	176.00	442048
50.00	74928	87.00	14443	131.00	741	177.00	29784
51.00	22416	88.00	13410	133.00	22	178.00	775
52.00	533	89.00	163	134.00	155	187.00	142
53.00	277	90.00	74	135.00	963	191.00	183
55.00	1284	91.00	1232	136.00	88	193.00	153
56.00	5694	92.00	13882	137.00	824	207.00	137
57.00	11637	93.00	22224	139.00	323	217.00	255
58.00	670	94.00	55712	140.00	293	218.00	164
60.00	3801	95.00	462336	141.00	4991	219.00	38
61.00	19104	96.00	32672	142.00	592	220.00	19
62.00	19976	97.00	871	143.00	5702	233.00	112
63.00	16108	98.00	265	144.00	472	235.00	92
64.00	1853	103.00	82	145.00	697	236.00	66
65.00	2801	104.00	1707	146.00	838	250.00	37

Report Date: 24-Mar-2014 13:17:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24
Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:44:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	453	106.00	1576	147.00	343		

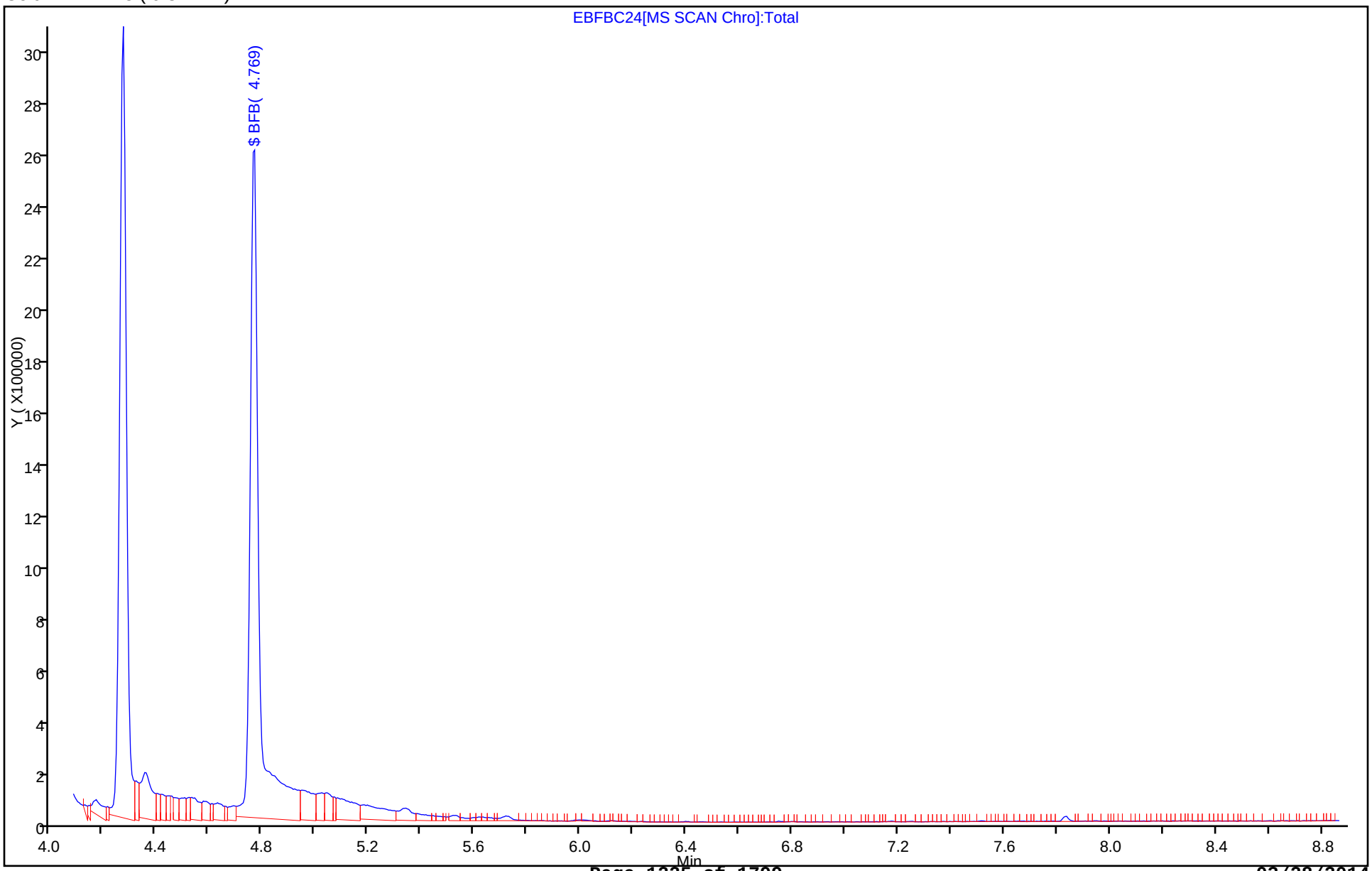
Report Date: 24-Mar-2014 13:17:14 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D

Injection Date:	24-Mar-2014 08:44:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D				
Lims ID:	BFB	Lab Sample ID:			
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Mar-2014 12:12:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	J031114I,BFB,,,,140-0000516-001				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	14-Mar-2014 13:55:12	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				

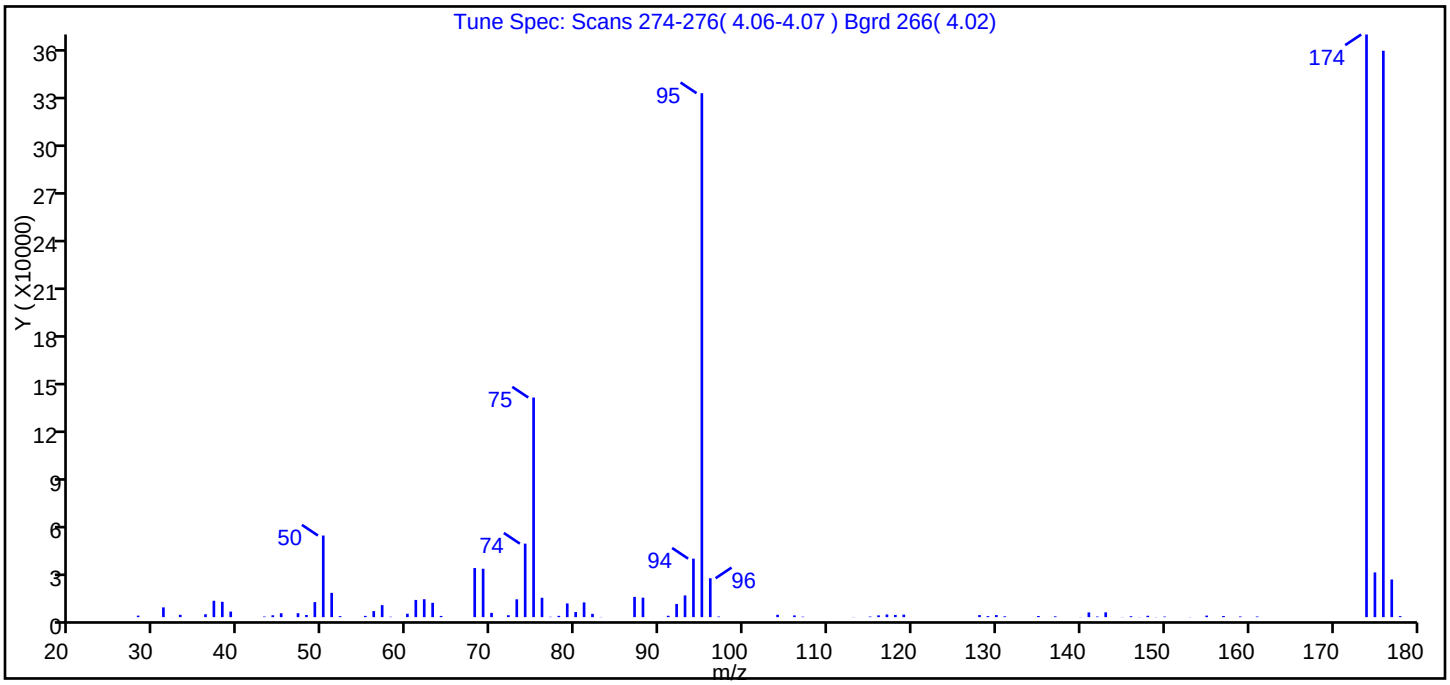
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
Injection Date: 11-Mar-2014 12:12:30 Instrument ID: MJ
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D\MJ_TO15.rslt\spectra.d
Injection Date: 11-Mar-2014 12:12:30
Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

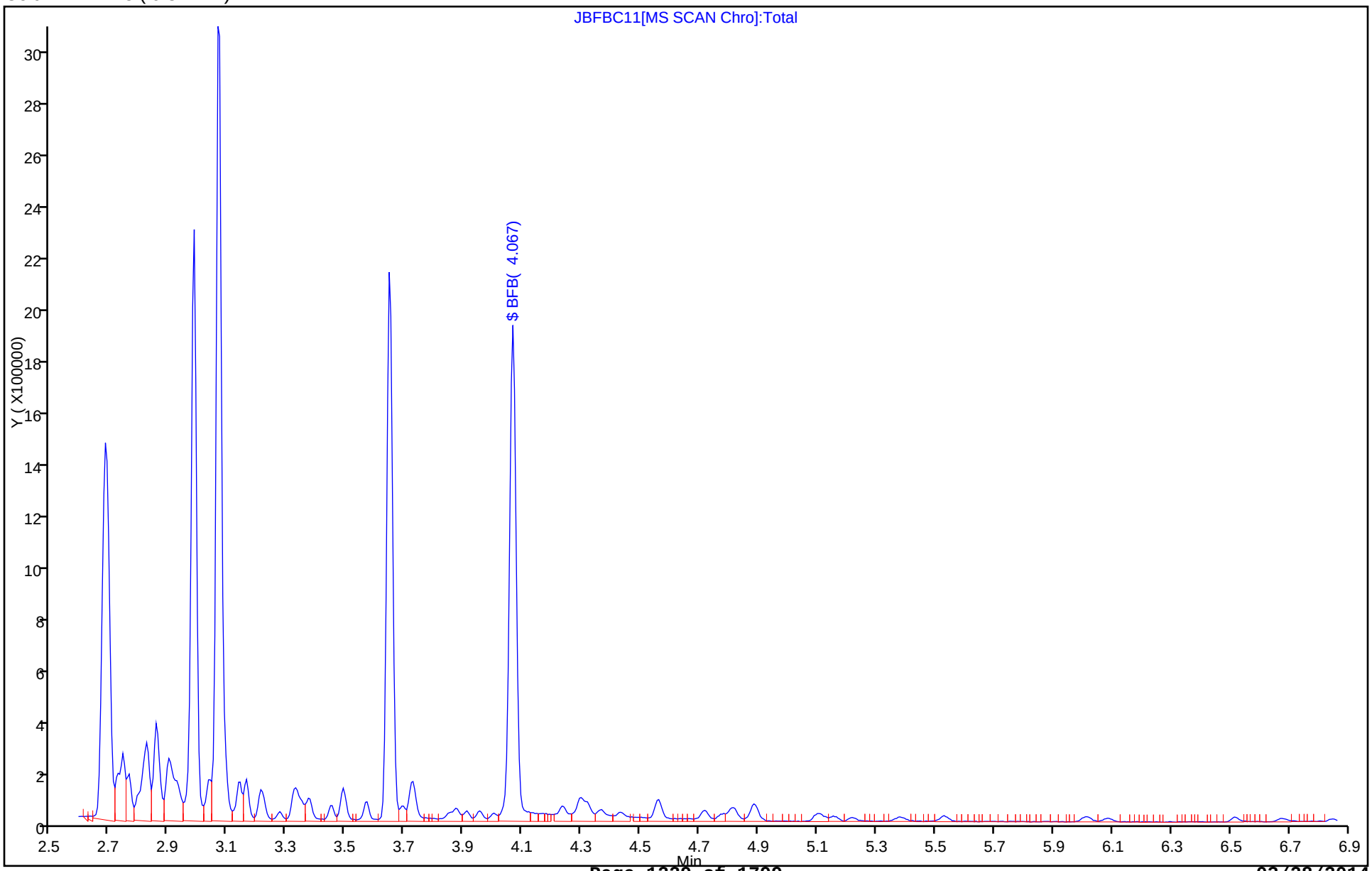
Report Date: 14-Mar-2014 13:55:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D

Injection Date:	11-Mar-2014 12:12:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	BFB	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	18-Mar-2014 09:48:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,bfb				
Misc. Info.:	J031814,BFB,,140-0000527-001				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	18-Mar-2014 13:30:30	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: barlozhetskayaa		Date:	18-Mar-2014 13:30:30		

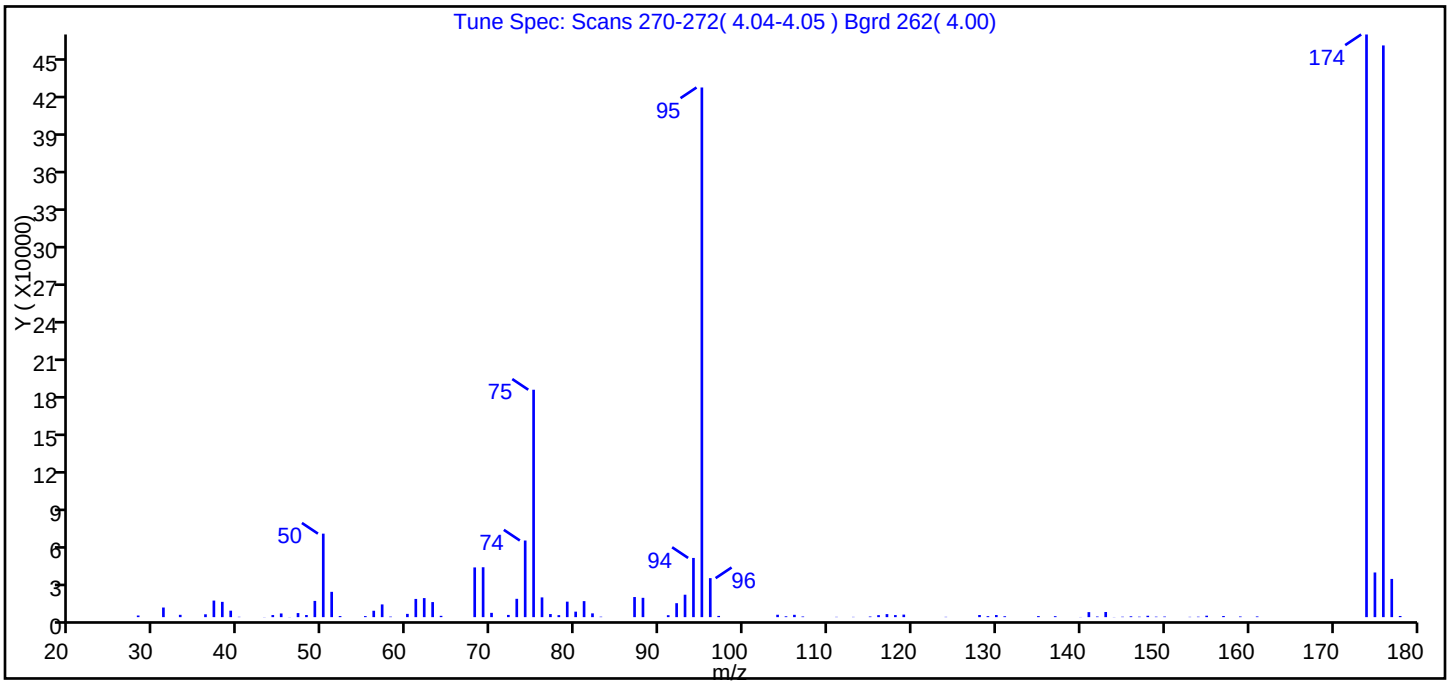
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.046	4.046	0.0	0	738189	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D
Injection Date: 18-Mar-2014 09:48:30 Instrument ID: MJ
Lims ID: bfb
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.80
75	30.00 - 60.00% of mass 95	42.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.00
175	5.00 - 9.00% of mass 174	8.40 (7.70)
176	95.00 - 101.00% of mass 174	107.90 (98.10)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D\MJ_TO15.rslt\spectra.d
Injection Date: 18-Mar-2014 09:48:30
Spectrum: Tune Spec: Scans 270-272(4.04-4.05) Bgrd 262(4.00)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	1314	61.00	14689	93.00	18096	140.00	128
31.00	7759	62.00	15370	94.00	47752	141.00	4046
33.00	1872	63.00	12153	95.00	427200	142.00	521
36.00	2301	64.00	1064	96.00	31456	143.00	4156
37.00	13361	68.00	40096	97.00	991	144.00	121
38.00	12330	69.00	40240	104.00	1934	145.00	345
39.00	5215	70.00	3466	105.00	691	146.00	686
40.00	266	72.00	1794	106.00	1881	147.00	373
43.00	116	73.00	14786	107.00	521	148.00	1110
44.00	1681	74.00	61808	111.00	236	149.00	392
45.00	2980	75.00	183424	113.00	216	150.00	478
46.00	104	76.00	15930	115.00	509	153.00	250
47.00	3280	77.00	2492	116.00	1609	154.00	367
48.00	1702	78.00	1611	117.00	2447	155.00	1162
49.00	13100	79.00	12497	118.00	1658	157.00	885
50.00	67352	80.00	4435	119.00	2046	159.00	523
51.00	20408	81.00	12920	124.00	241	161.00	578
52.00	864	82.00	3052	128.00	1723	174.00	469952
55.00	851	83.00	359	129.00	802	175.00	36024
56.00	5152	87.00	16211	130.00	1690	176.00	461120
57.00	10265	88.00	15594	131.00	730	177.00	30824
58.00	419	91.00	1565	135.00	834	178.00	933
60.00	2639	92.00	11255	137.00	780		

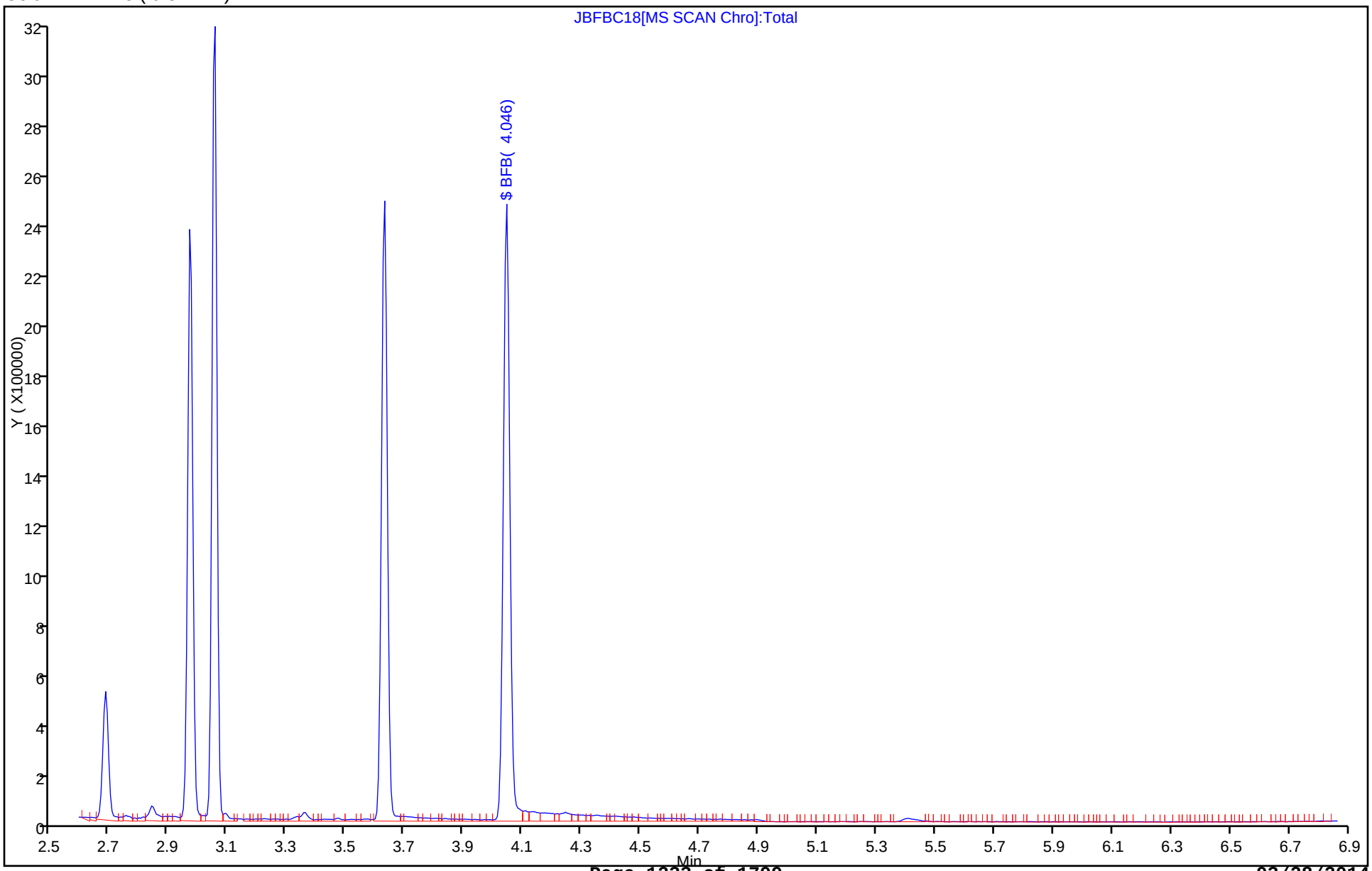
Report Date: 18-Mar-2014 13:30:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D

Injection Date:	18-Mar-2014 09:48:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	19-Mar-2014 10:38:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,bfb				
Misc. Info.:	J031914,BFB,,140-0000532-001				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Mar-2014 17:16:56	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK012				
First Level Reviewer: barlozhetskayaa		Date:	19-Mar-2014 17:16:56		

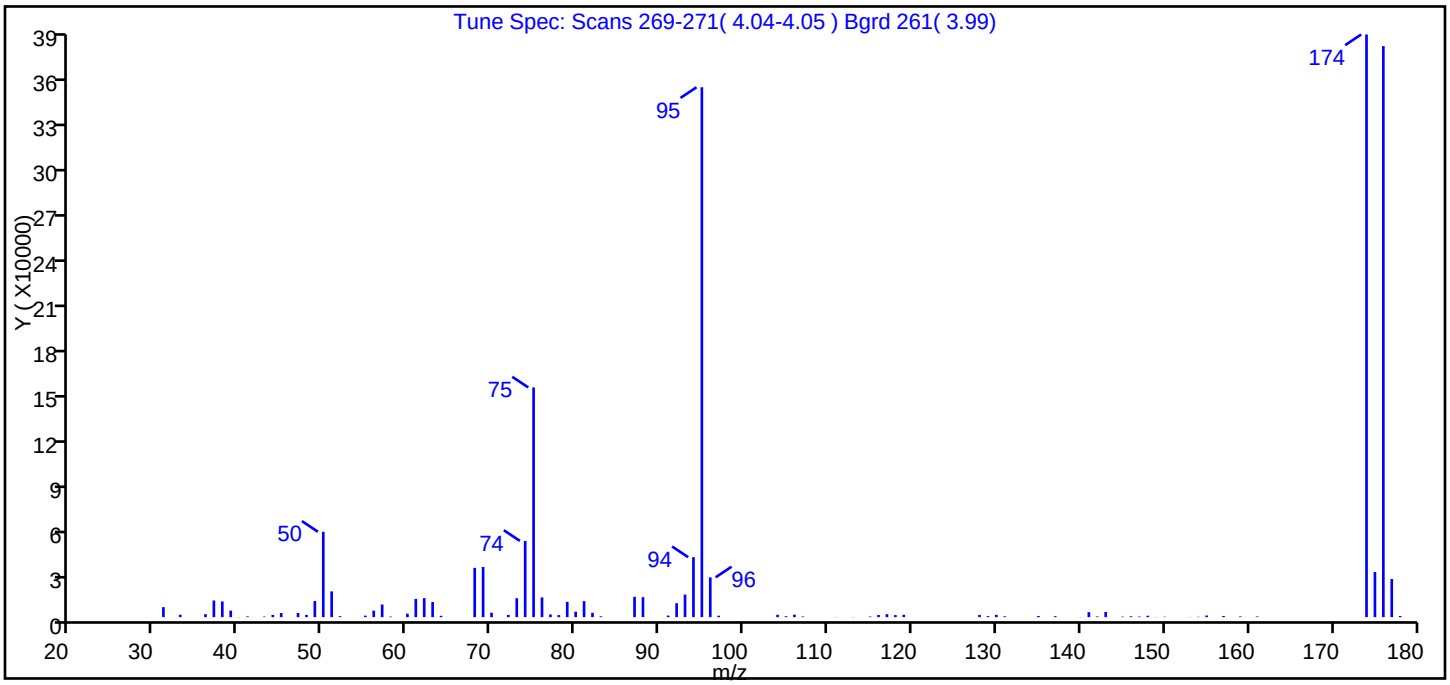
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.042	4.042	0.0	0	588214	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D
Injection Date: 19-Mar-2014 10:38:30 Instrument ID: MJ
Lims ID: bfb
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.10
75	30.00 - 60.00% of mass 95	43.30
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.00
175	5.00 - 9.00% of mass 174	8.50 (7.80)
176	95.00 - 101.00% of mass 174	107.80 (98.00)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D\MJ_TO15.rslt\spectra.d
Injection Date: 19-Mar-2014 10:38:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 261(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	28	60.00	2308	92.00	9259	140.00	103
31.00	6625	61.00	12085	93.00	14998	141.00	3315
33.00	1591	62.00	12603	94.00	39800	142.00	446
36.00	1985	63.00	10044	95.00	351552	143.00	3427
37.00	11046	64.00	891	96.00	26408	145.00	348
38.00	10418	68.00	32688	97.00	943	146.00	565
39.00	4344	69.00	33256	104.00	1556	147.00	385
40.00	107	70.00	2928	105.00	622	148.00	932
41.00	481	72.00	1462	106.00	1649	149.00	107
43.00	372	73.00	12565	107.00	441	150.00	280
44.00	1478	74.00	50584	111.00	119	153.00	105
45.00	2716	75.00	152384	113.00	103	154.00	223
47.00	2742	76.00	13080	115.00	414	155.00	1085
48.00	1483	77.00	1770	116.00	1399	157.00	744
49.00	10707	78.00	1366	117.00	1989	159.00	453
50.00	56640	79.00	10160	118.00	1366	161.00	446
51.00	17096	80.00	3607	119.00	1556	174.00	386560
52.00	624	81.00	10605	128.00	1482	175.00	29968
54.00	2	82.00	2859	129.00	675	176.00	378816
55.00	995	83.00	551	130.00	1486	177.00	25304
56.00	4310	87.00	13476	131.00	559	178.00	747
57.00	8387	88.00	13219	135.00	777		
58.00	371	91.00	1033	137.00	652		

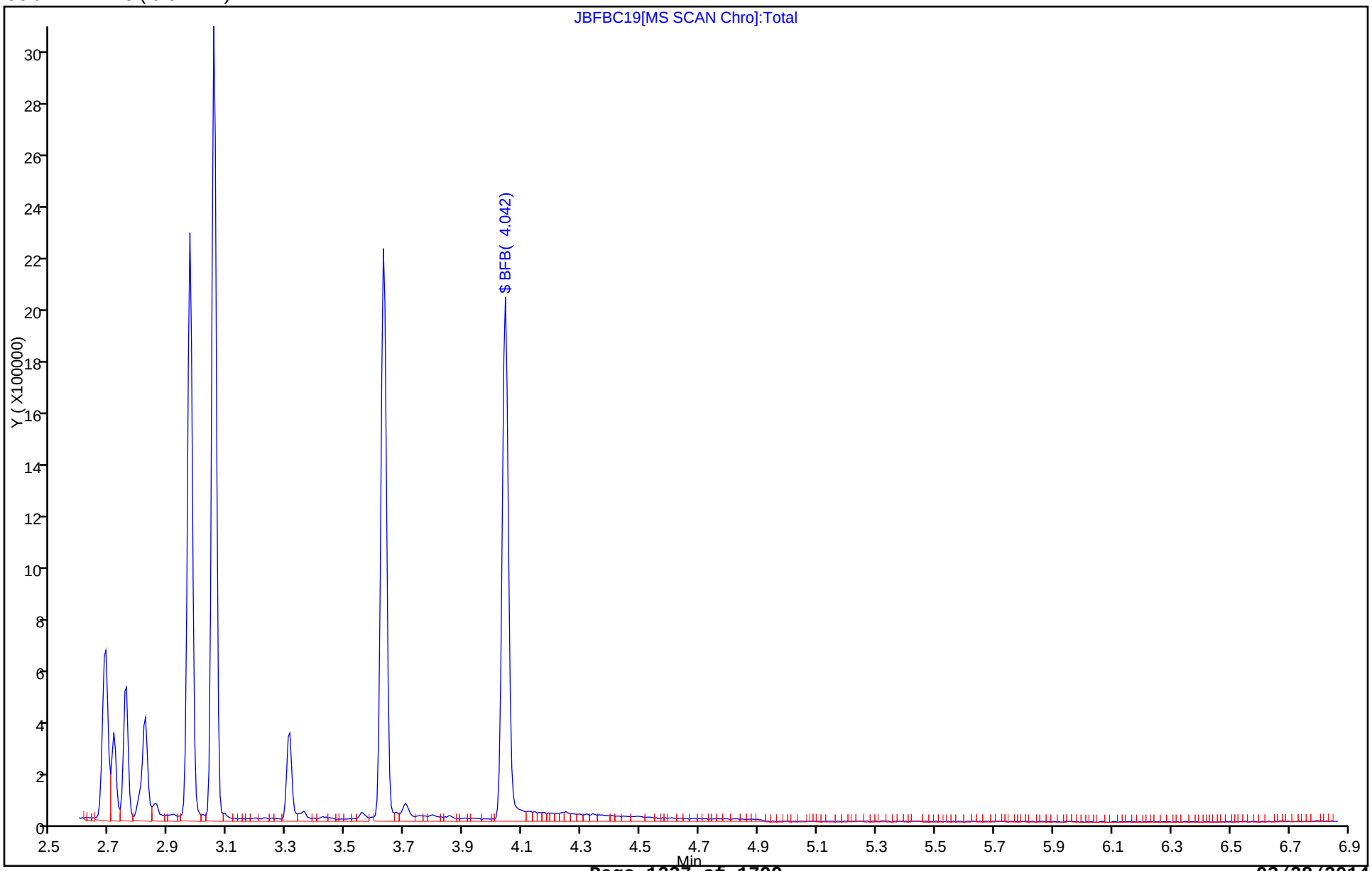
Report Date: 19-Mar-2014 17:16:56 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D

Injection Date:	19-Mar-2014 10:38:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-Mar-2014 11:03:30	ALS Bottle#:	16	Worklist Smp#:	1
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,bfb				
Misc. Info.:	J032114,BFB,,140-0000540-001				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Mar-2014 14:31:30	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	21-Mar-2014 14:31:29		

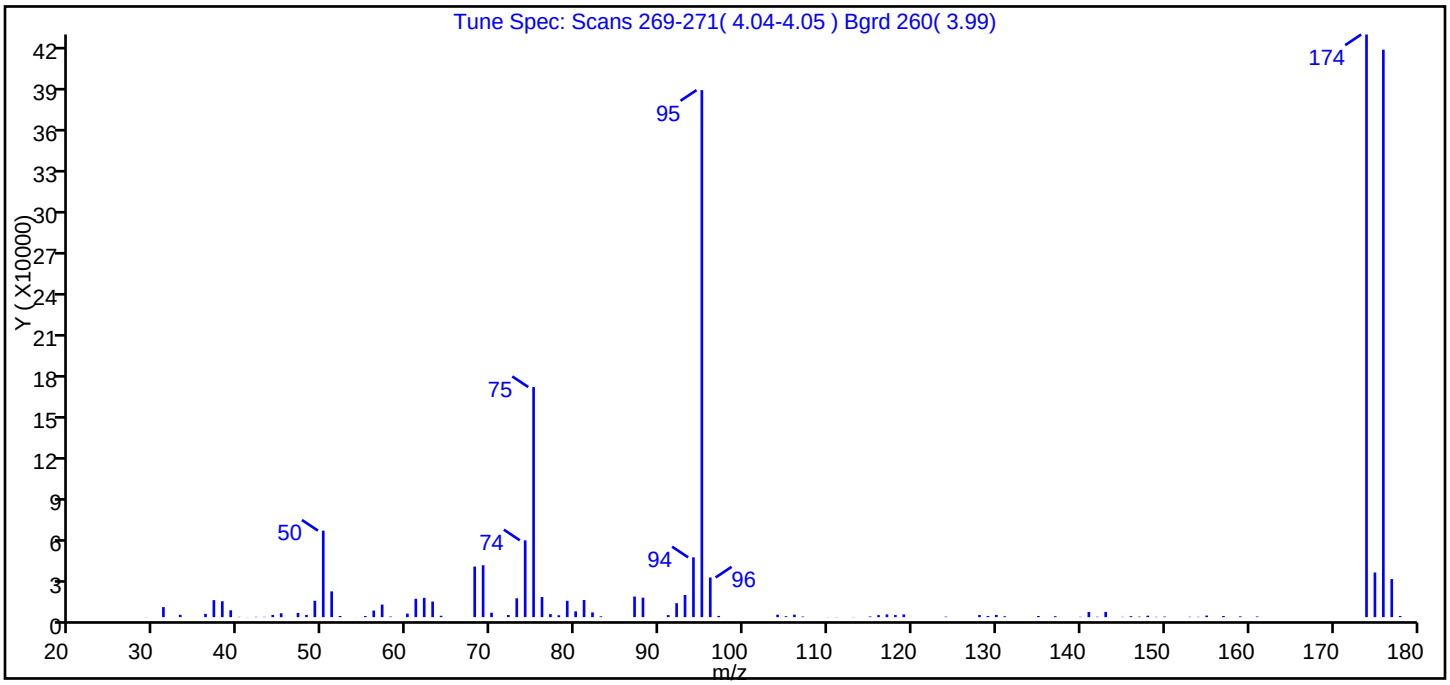
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
$ 4 BFB	95	4.041	4.041	0.0	0	652867	NR	

MS Tune Report

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
Injection Date: 21-Mar-2014 11:03:30 Instrument ID: MJ
Lims ID: bfb
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.40
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.60
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	107.70 (97.40)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D\MJ_TO15.rslt\spectra.d
Injection Date: 21-Mar-2014 11:03:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 260(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	104	60.00	2612	93.00	16239	140.00	255
31.00	7367	61.00	13435	94.00	43744	141.00	3757
33.00	1710	62.00	14091	95.00	385536	142.00	306
36.00	2425	63.00	11430	96.00	29008	143.00	3831
37.00	12450	64.00	1027	97.00	891	145.00	209
38.00	11645	68.00	37008	104.00	1777	146.00	704
39.00	5013	69.00	37944	105.00	666	147.00	359
40.00	212	70.00	3227	106.00	1795	148.00	1060
41.00	93	72.00	1550	107.00	431	149.00	240
42.00	230	73.00	13785	110.00	118	150.00	434
43.00	229	74.00	56192	111.00	114	153.00	266
44.00	1564	75.00	168320	113.00	117	154.00	255
45.00	2828	76.00	14713	115.00	480	155.00	1155
47.00	3090	77.00	2230	116.00	1472	157.00	857
48.00	1619	78.00	1379	117.00	2020	159.00	557
49.00	12011	79.00	11937	118.00	1552	161.00	485
50.00	63280	80.00	4253	119.00	1988	174.00	426240
51.00	18856	81.00	12542	124.00	367	175.00	32664
52.00	843	82.00	3463	128.00	1537	176.00	415104
54.00	43	83.00	600	129.00	808	177.00	27856
55.00	848	87.00	15073	130.00	1631	178.00	798
56.00	4820	88.00	14234	131.00	658		
57.00	9195	91.00	1521	135.00	833		
58.00	404	92.00	10199	137.00	711		

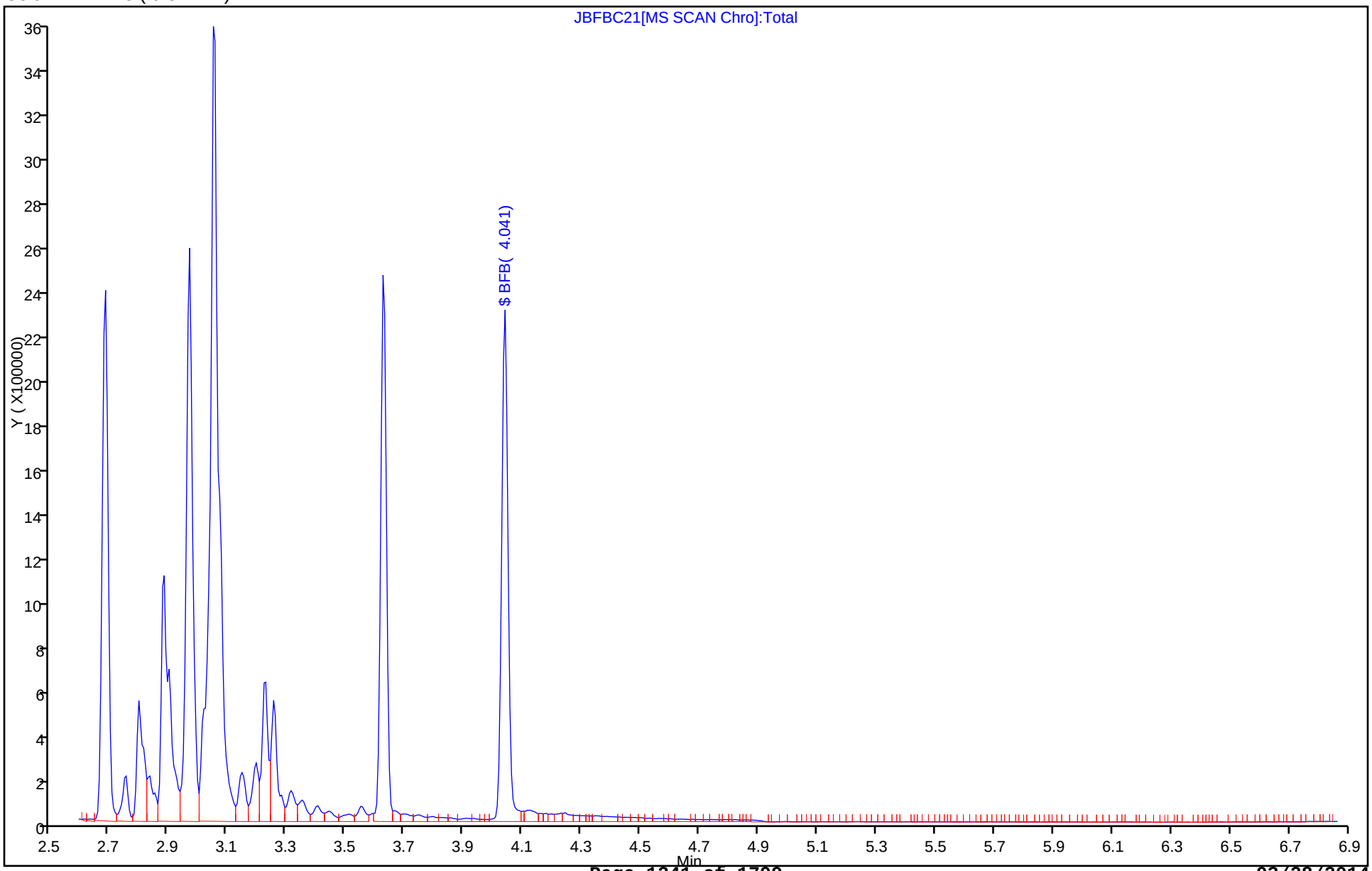
Report Date: 21-Mar-2014 14:31:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D

Injection Date:	21-Mar-2014 11:03:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-971/9

Matrix: Air Lab File ID: MB200mL.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\MB200mL.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 18-Mar-2014 16:42:30 ALS Bottle#: 16 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: MB200mL
Misc. Info.: J031814,TO15,,140-0000527-009
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 17:30:31 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 17:30:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	89	377290	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1683690	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	86	1364337	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	943499	3.91	
140 Tert-amyl methyl ether	73	11.534	11.469	0.065	5	18390	NR	
T 136 Methanol TIC	31	4.288	4.398	-0.112	22	109	0.001156	

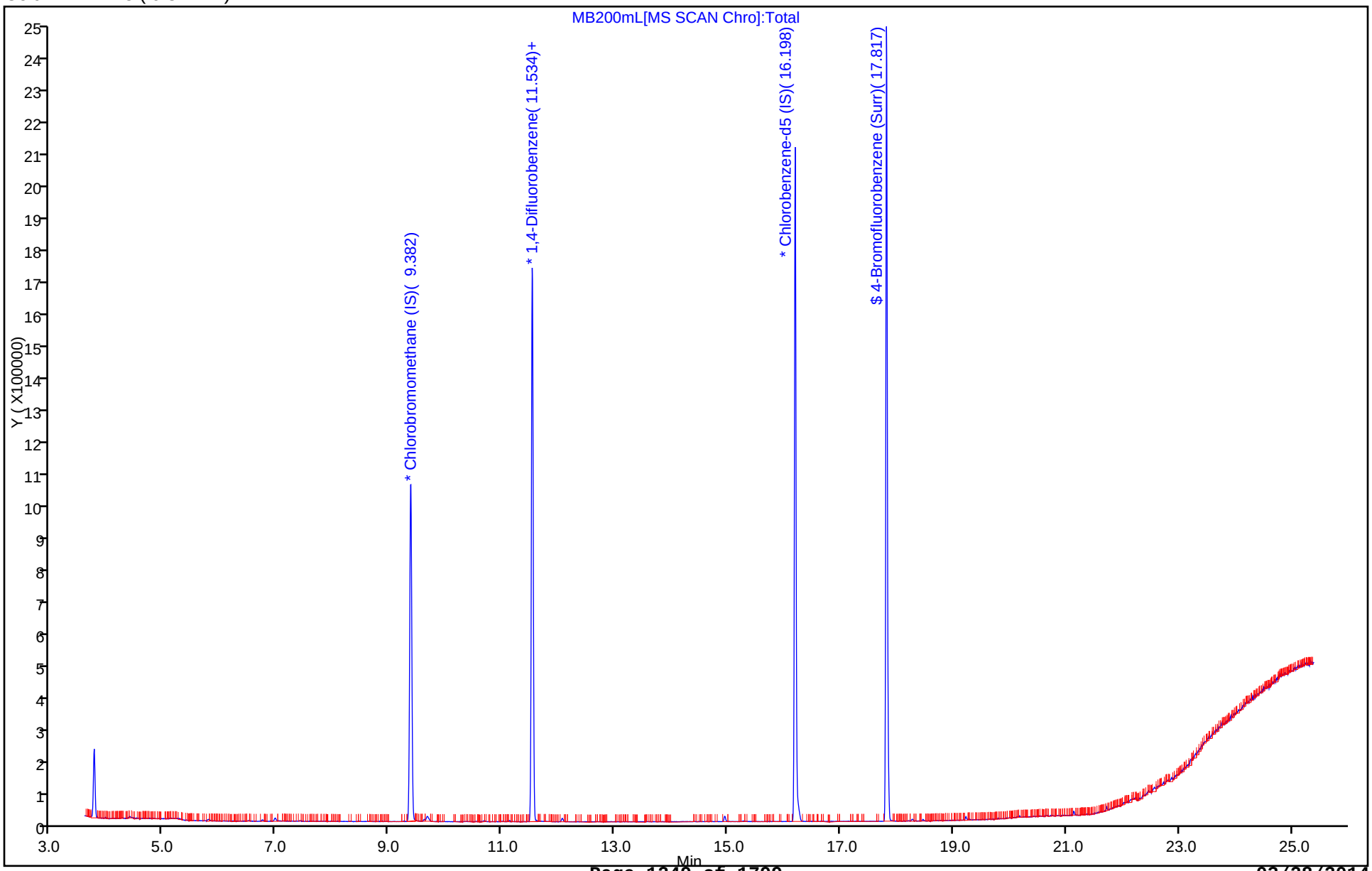
Report Date: 18-Mar-2014 17:30:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\MB200mL.D

Injection Date:	18-Mar-2014 16:42:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	mb			Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-976/1004

Matrix: Air Lab File ID: 140-1071-a-10-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d				
Lims ID:	MB				
Client ID:	09635				
Sample Type:	MB				
Inject. Date:	19-Mar-2014 13:17:30	ALS Bottle#:	16	Worklist Smp#:	1004
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09635 1L lotchk				
Misc. Info.:	J031914,TO15,,140-0000532-004				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Mar-2014 17:19:16	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK012				
First Level Reviewer: barlozhetskayaa		Date:	19-Mar-2014 17:19:32		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.385	-0.003	89	389292	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1813244	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1451706	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	959597	3.74	
140 Tert-amyl methyl ether	73	11.534	11.467	0.067	1	19766	NR	
A 118 C6 Range	1	8.638	8.562 -	8.702	0	5644	0.004966	
A 122 Toluene Range	1	14.253	14.223 -	14.283	0	13695	0.0209	
A 123 C8 Range	1	14.931	14.877 -	14.985	0	43513	0.0428	
T 136 Methanol TIC	31	4.374	4.397	-0.026	89	5413	0.0556	

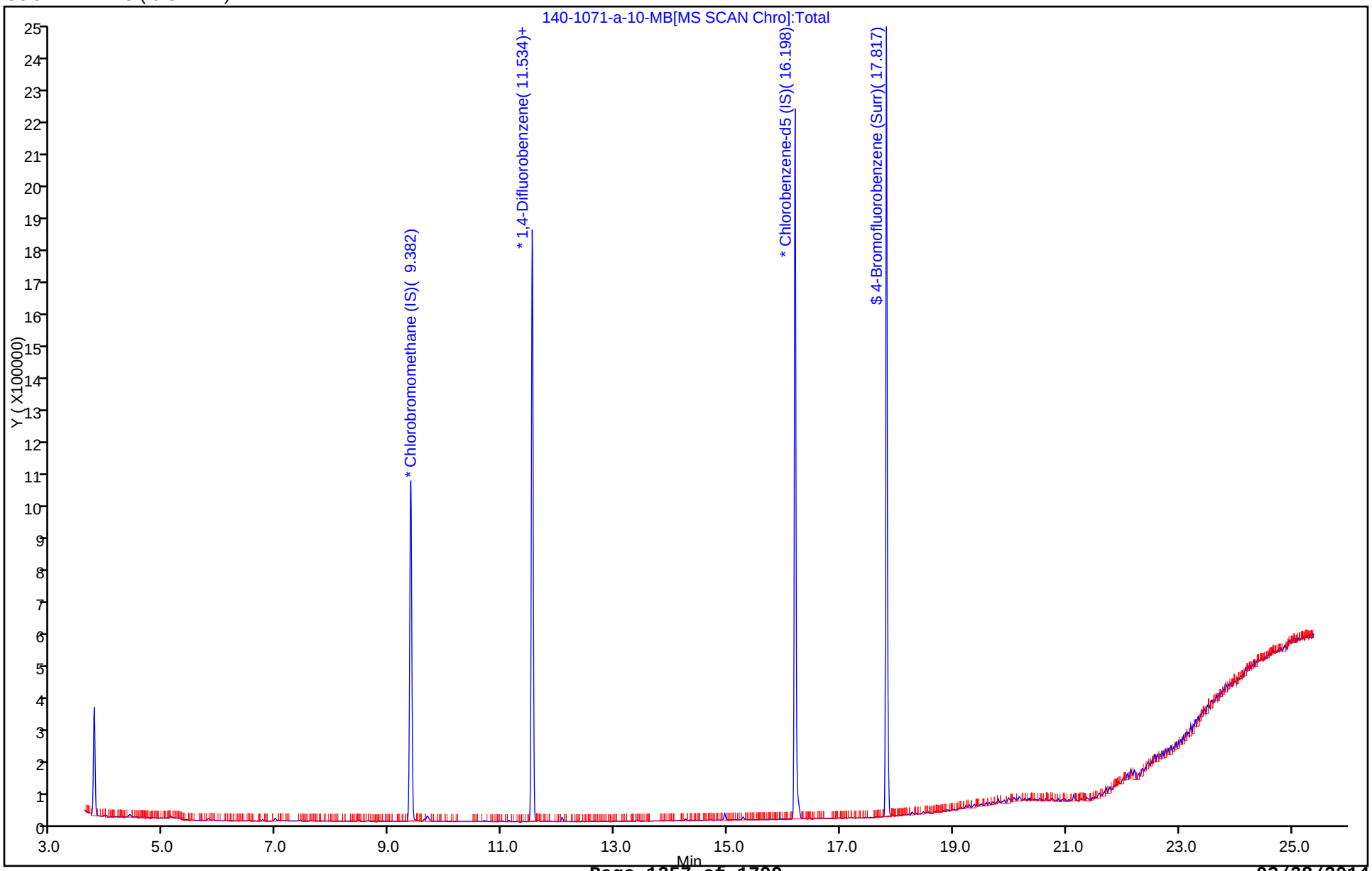
Report Date: 19-Mar-2014 17:19:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d

Injection Date:	19-Mar-2014 13:17:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	MB			Worklist Smp#:	1004
Client ID:	09635				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-984/5

Matrix: Air Lab File ID: 200BLK.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	21-Mar-2014 14:39:30	ALS Bottle#:	16	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	200ML BLANK				
Misc. Info.:	J032114,TO15,,140-0000540-005				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 08:37:56	Calib Date:	11-Mar-2014 19:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 08:37:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.379	-0.005	90	375868	4.00	
* 2 1,4-Difluorobenzene	114	11.525	11.530	-0.005	94	1755903	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.189	16.194	-0.005	87	1341257	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	887215	3.74	
140 Tert-amyl methyl ether	73	11.525	11.466	0.059	1	19915	NR	
T 136 Methanol TIC	31	4.381	4.396	-0.019	82	3059	0.0326	

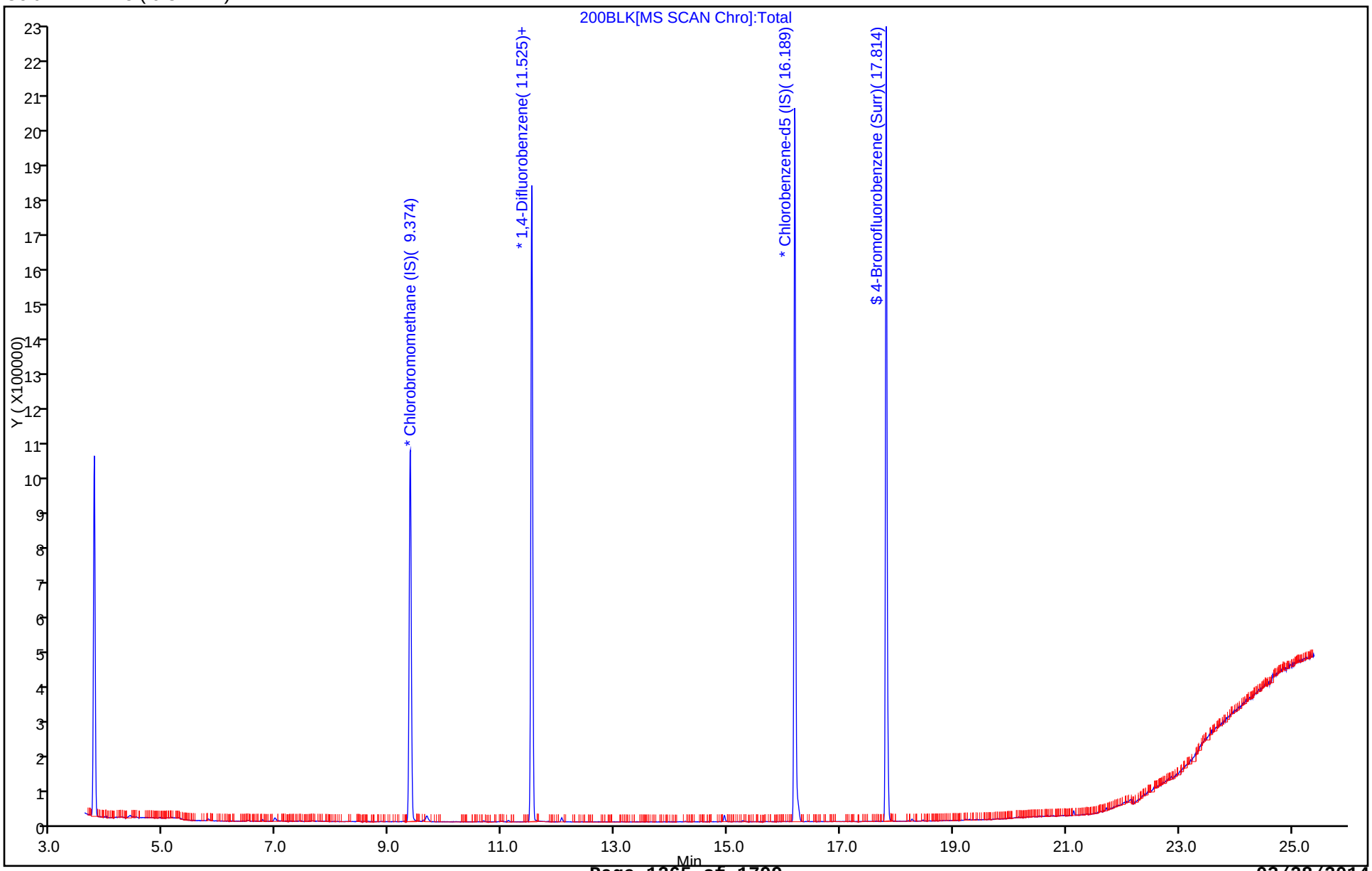
Report Date: 24-Mar-2014 08:37:58 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D

Injection Date:	21-Mar-2014 14:39:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-990/1005

Matrix: Air Lab File ID: 140-1086-a-9-MB.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 03/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d				
Lims ID:	MB				
Client ID:	10758				
Sample Type:	MB				
Inject. Date:	24-Mar-2014 11:45:30	ALS Bottle#:	2	Worklist Smp#:	1005
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10758				
Misc. Info.:	E032414,TO155,,140-0000541-005				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	24-Mar-2014 13:17:14	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: tajh		Date:	24-Mar-2014 13:18:16		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	303416	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1490673	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1270564	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1064787	3.83	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	2723	0.002669	
A 119 Toluene Range	1	13.387	13.344 -	13.452	0	550	0.000618	
A 120 C8 Range	1	14.091	14.056 -	14.142	0	764	0.000717	
T 136 Methanol TIC	31	4.312	3.997	0.312	77	1359	0.0179	

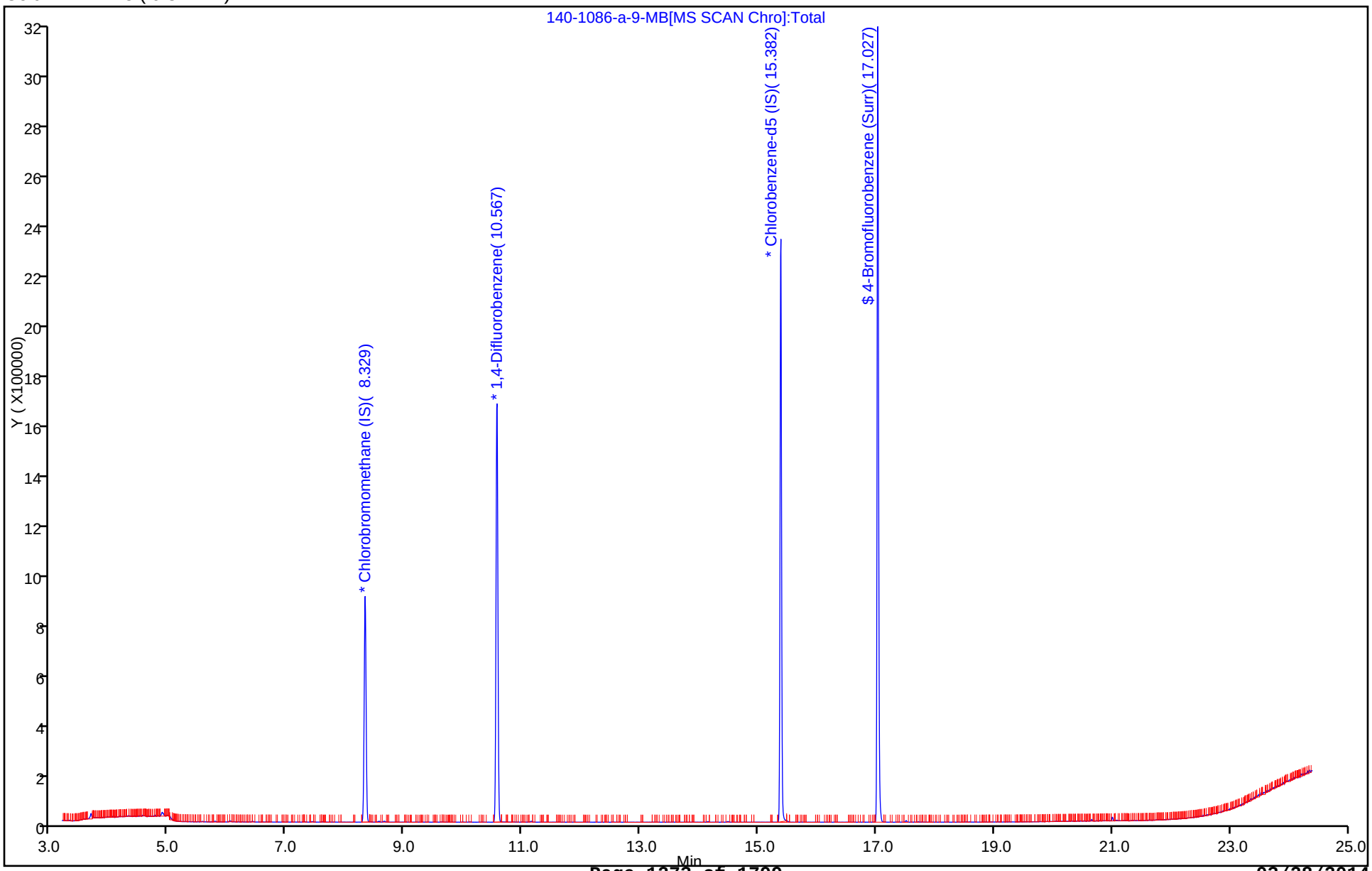
Report Date: 24-Mar-2014 13:18:18 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d

Injection Date:	24-Mar-2014 11:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	MB			Worklist Smp#:	1005
Client ID:	10758				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-971/1002

Matrix: Air Lab File ID: JCCVC18-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 10:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.99		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.24		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.08		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.99		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.29		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.92		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.20		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.08		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.13		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.97		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.18		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.99		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.20		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.05		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.95		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.93		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.97		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.08		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.03		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.96		0.40	0.080
591-78-6	2-Hexanone	100.20	2.10		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.91		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.86		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.02		0.20	0.018
67-64-1	Acetone	58.08	1.26	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.09		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.18		0.080	0.018
75-25-2	Bromoform	252.75	2.07		0.080	0.019
74-83-9	Bromomethane	94.94	1.92		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.01		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-971/1002

Matrix: Air Lab File ID: JCCVC18-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 10:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.13		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.03		0.080	0.020
75-00-3	Chloroethane	64.52	1.93		0.080	0.014
67-66-3	Chloroform	119.38	2.02		0.080	0.015
74-87-3	Chloromethane	50.49	1.97		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.08		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.98		0.080	0.030
110-82-7	Cyclohexane	84.16	2.07		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.20		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.05		0.080	0.027
64-17-5	Ethanol	46.07	9.88		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.22		0.080	0.027
142-82-5	Heptane	100.21	2.11		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.71		0.40	0.031
110-54-3	Hexane	86.17	1.78		0.20	0.013
496-11-7	Indane	118.18	2.20		0.080	0.080
95-13-6	Indene	116.16	2.28		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.89		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.09		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.12		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.93		0.20	0.036
95-47-6	o-Xylene	106.17	2.19		0.080	0.024
115-07-1	Propene	42.08	1.90		0.20	0.031
100-42-5	Styrene	104.15	2.29		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.17		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.01		0.40	0.025
110-02-1	Thiophene	84.14	2.13		0.080	0.080
108-88-3	Toluene	92.14	2.16		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.88		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.12		0.080	0.019
79-01-6	Trichloroethene	131.39	2.14		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.03		0.080	0.0096
75-01-4	Vinyl chloride	62.50	1.99		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-971/1002

Matrix: Air Lab File ID: JCCVC18-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 10:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 18-Mar-2014 10:16:30 ALS Bottle#: 8 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J031814,TO15,,140-0000527-002
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 13:34:00 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 13:34:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	91	363327	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	92	1539618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1280996	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	89	899094	3.97	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	74454	1.99	
7 Propene	41	3.971	3.971	0.0	99	211889	1.90	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	739325	2.05	
9 Chloromethane	52	4.229	4.229	0.0	98	80436	1.97	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.234	0.0	91	578020	2.13	
11 Acetaldehyde	44	4.396	4.396	0.0	99	282339	7.88	
12 Vinyl chloride	62	4.417	4.417	0.0	99	268105	1.99	
14 Butadiene	54	4.514	4.514	0.0	67	191679	2.05	
13 Butane	43	4.514	4.514	0.0	85	369310	1.93	
15 Bromomethane	94	4.869	4.869	0.0	99	262661	1.92	
16 Chloroethane	64	5.025	5.025	0.0	99	119824	1.93	
17 Ethanol	31	5.116	5.116	0.0	95	288164	9.88	
18 Vinyl bromide	106	5.353	5.353	0.0	97	244913	2.10	
19 2-Methylbutane	43	5.407	5.407	0.0	92	295057	1.91	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	97	640547	2.03	
21 Acrolein	56	5.644	5.644	0.0	66	45177	1.52	
22 Acetonitrile	40	5.713	5.713	0.0	98	60382	1.84	
23 Acetone	58	5.767	5.767	0.0	91	65004	1.26	
24 Isopropyl alcohol	45	5.848	5.848	0.0	97	257527	1.89	
25 Pentane	72	5.880	5.880	0.0	97	38620	1.98	
26 Ethyl ether	31	6.047	6.047	0.0	93	176110	1.85	
27 1,1-Dichloroethene	96	6.391	6.391	0.0	97	233321	2.29	
28 2-Methyl-2-propanol	59	6.472	6.472	0.0	95	284922	1.70	
29 Acrylonitrile	53	6.488	6.488	0.0	93	102541	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.580	6.580	0.0	95	490898	2.24	
31 Methylene Chloride	84	6.757	6.757	0.0	95	205616	2.12	
32 3-Chloro-1-propene	39	6.773	6.773	0.0	92	177385	1.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.935	6.935	0.0	100	685693	2.01	
34 trans-1,2-Dichloroethene	96	7.602	7.602	0.0	98	230780	1.88	
35 2-Methylpentane	43	7.623	7.623	0.0	94	522840	1.86	
36 Methyl tert-butyl ether	73	7.725	7.725	0.0	96	386874	2.09	
37 1,1-Dichloroethane	63	8.037	8.037	0.0	100	382119	1.99	
38 Vinyl acetate	43	8.134	8.134	0.0	100	328023	1.95	
39 2-Butanone (MEK)	72	8.586	8.586	0.0	99	67540	1.96	
40 Hexane	56	8.635	8.635	0.0	90	173661	1.78	
41 cis-1,2-Dichloroethene	96	9.043	9.043	0.0	95	217993	2.08	
42 Ethyl acetate	43	9.216	9.216	0.0	98	309230	2.06	
43 Chloroform	83	9.393	9.393	0.0	96	427552	2.02	
44 Tetrahydrofuran	42	9.802	9.802	0.0	94	169081	2.01	
45 1,1,1-Trichloroethane	97	10.442	10.442	0.0	96	439761	1.99	
46 1,2-Dichloroethane	62	10.539	10.539	0.0	96	259801	2.18	
47 n-Butanol	31	10.942	10.942	0.0	86	61685	1.83	
48 Benzene	78	11.023	11.023	0.0	97	550283	2.08	
49 Cyclohexane	69	11.034	11.034	0.0	92	107676	2.07	
50 Carbon tetrachloride	117	11.050	11.050	0.0	97	464463	2.13	
51 2,3-Dimethylpentane	71	11.136	11.136	0.0	91	126213	2.03	
52 Thiophene	84	11.292	11.292	0.0	96	346965	2.13	
53 Isooctane	57	11.760	11.760	0.0	98	938606	2.08	
54 n-Heptane	71	12.120	12.120	0.0	93	196847	2.11	
55 1,2-Dichloropropane	63	12.206	12.206	0.0	87	177841	1.99	
56 Trichloroethene	130	12.244	12.244	0.0	93	274757	2.14	
57 Dibromomethane	93	12.325	12.325	0.0	92	241107	2.05	
59 Dichlorobromomethane	83	12.465	12.465	0.0	99	406186	2.18	
58 1,4-Dioxane	88	12.470	12.470	0.0	88	63123	1.97	
60 Methyl methacrylate	41	12.540	12.540	0.0	91	175009	2.18	
61 Methylcyclohexane	83	13.008	13.008	0.0	96	362434	2.04	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.368	0.0	98	325315	2.02	
63 cis-1,3-Dichloropropene	75	13.438	13.438	0.0	95	251087	1.98	
64 trans-1,3-Dichloropropene	75	14.116	14.116	0.0	99	225457	2.12	
65 Toluene	91	14.256	14.256	0.0	93	514315	2.16	
66 1,1,2-Trichloroethane	83	14.321	14.321	0.0	97	156606	2.08	
67 2-Methylthiophene	97	14.407	14.407	0.0	98	442293	2.07	
68 3-Methylthiophene	97	14.600	14.600	0.0	99	453583	2.12	
69 2-Hexanone	58	14.681	14.681	0.0	93	163752	2.10	
70 n-Octane	85	14.923	14.923	0.0	94	193649	2.22	
71 Chlorodibromomethane	129	15.020	15.020	0.0	96	365933	2.20	
72 Ethylene Dibromide	107	15.310	15.310	0.0	98	268810	2.08	
73 Tetrachloroethene	129	15.386	15.386	0.0	93	240416	2.17	
75 Chlorobenzene	112	16.246	16.246	0.0	91	412961	2.03	
74 2,3-Dimethylheptane	43	16.252	16.252	0.0	95	583907	2.23	
76 Ethylbenzene	91	16.532	16.532	0.0	98	581730	2.22	
77 2-Ethylthiophene	97	16.628	16.628	0.0	98	445183	2.16	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	100	906341	4.28	
79 n-Nonane	57	17.091	17.091	0.0	92	337288	2.05	
81 Bromoform	173	17.145	17.145	0.0	94	271427	2.07	
80 Styrene	104	17.150	17.150	0.0	98	333418	2.29	
82 o-Xylene	91	17.215	17.215	0.0	96	470942	2.19	
83 1,1,2,2-Tetrachloroethane	83	17.527	17.527	0.0	99	387345	2.21	
84 1,2,3-Trichloropropane	110	17.683	17.683	0.0	97	93583	2.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.785	17.785	0.0	97	657951	2.15	
86 N-Propylbenzene	120	18.301	18.301	0.0	98	177878	2.20	
87 2-Chlorotoluene	126	18.350	18.350	0.0	97	174479	2.07	
88 4-Ethyltoluene	105	18.447	18.447	0.0	98	640634	2.25	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	92	315099	2.20	
90 Alpha Methyl Styrene	118	18.737	18.737	0.0	84	235456	2.29	
91 n-Decane	57	18.786	18.786	0.0	89	364564	2.08	
92 tert-Butylbenzene	119	18.931	18.931	0.0	88	599505	2.14	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	94	548295	2.20	
94 sec-Butylbenzene	105	19.189	19.189	0.0	98	799931	2.19	
95 1,3-Dichlorobenzene	146	19.211	19.211	0.0	99	318747	1.95	
96 Benzyl chloride	91	19.280	19.280	0.0	98	388432	2.09	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	93	294368	1.93	
98 4-Isopropyltoluene	119	19.345	19.345	0.0	88	639055	2.18	
99 1,2,3-Trimethylbenzene	105	19.404	19.404	0.0	98	456765	2.25	
100 Butylcyclohexane	83	19.453	19.453	0.0	94	472603	2.04	
101 2,3-Dihydroindene	117	19.646	19.646	0.0	89	500227	2.20	
102 1,2-Dichlorobenzene	146	19.646	19.646	0.0	78	314494	1.97	
103 n-Butylbenzene	91	19.770	19.770	0.0	96	562102	2.07	
104 Indene	116	19.775	19.775	0.0	86	453255	2.28	
105 Undecane	57	20.066	20.066	0.0	96	365271	2.06	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.130	20.130	0.0	97	565787	2.06	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.523	0.0	97	597770	2.17	
107 1,2,3,5-Tetramethylbenzene	119	20.577	20.577	0.0	95	366968	2.04	
109 1,2,3,4-Tetramethylbenzene	119	20.991	20.991	0.0	96	471932	2.12	
110 Dodecane	57	21.142	21.142	0.0	95	359633	1.96	
111 1,2,4-Trichlorobenzene	180	21.373	21.373	0.0	94	136853	1.92	
112 Naphthalene	128	21.518	21.518	0.0	99	389180	1.93	
113 Benzo(b)thiophene	134	21.626	21.626	0.0	99	255180	1.87	
114 Hexachlorobutadiene	225	21.723	21.723	0.0	84	248264	1.71	
115 1,2,3-Trichlorobenzene	180	21.793	21.793	0.0	95	172325	1.87	
116 2-Methylnaphthalene	142	22.444	22.444	0.0	98	169073	7.89	
117 1-Methylnaphthalene	142	22.573	22.573	0.0	97	179390	8.12	
139 Isopropyl ether	45	8.785	8.785	0.0	97	513963	NR	
142 Tert-butyl ethyl ether	59	9.474	9.474	0.0	96	458428	NR	
140 Tert-amyl methyl ether	73	11.469	11.469	0.0	93	431598	NR	
A 118 C6 Range	1	8.635	8.575 -	8.694	0	1986168	1.87	
A 122 Toluene Range	1	14.256	14.226 -	14.286	0	1236663	2.14	
A 123 C8 Range	1	14.915	14.869 -	14.988	0	1847293	2.06	
S 124 Xylenes, Total	100				0		6.47	

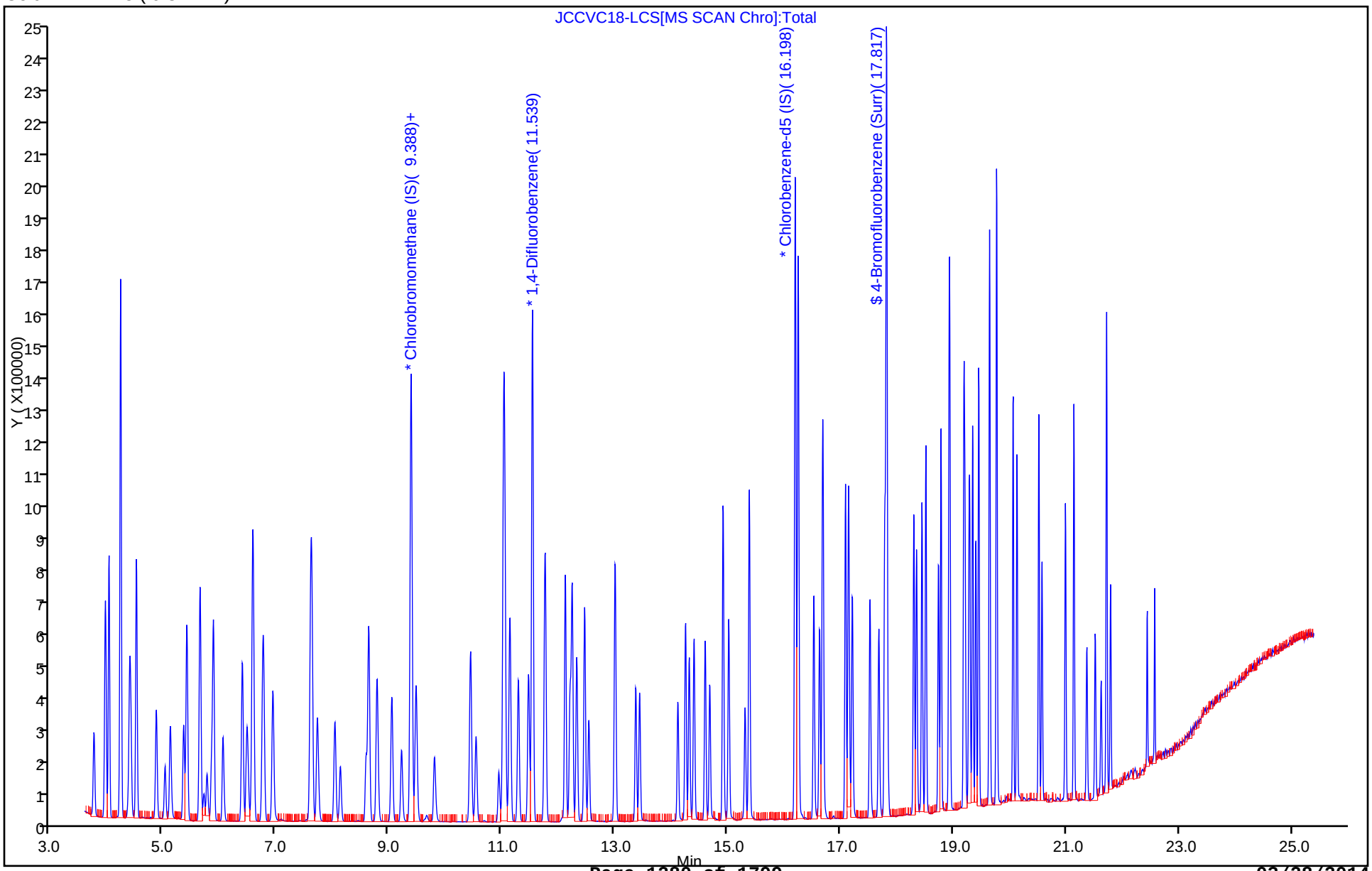
Report Date: 18-Mar-2014 13:34:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18-LCS.d

Injection Date:	18-Mar-2014 10:16:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-976/1002

Matrix: Air Lab File ID: JCCVC19-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.04		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.36		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.34		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.19		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.05		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.37		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.03		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.38		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.20		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.23		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.08		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.10		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	2.08		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.37		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.08		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.07		0.080	0.026
123-91-1	1,4-Dioxane	88.11	2.14		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.13		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.10		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	2.15		0.40	0.080
591-78-6	2-Hexanone	100.20	2.27		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.95		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.43		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.23		0.20	0.018
67-64-1	Acetone	58.08	1.42	J	2.0	0.56
71-43-2	Benzene	78.11	2.02		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.19		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.20		0.080	0.018
75-25-2	Bromoform	252.75	2.18		0.080	0.019
74-83-9	Bromomethane	94.94	1.97		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.06		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-976/1002

Matrix: Air Lab File ID: JCCVC19-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.15		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.12		0.080	0.020
75-00-3	Chloroethane	64.52	1.94		0.080	0.014
67-66-3	Chloroform	119.38	2.05		0.080	0.015
74-87-3	Chloromethane	50.49	2.05		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.15		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.07		0.080	0.030
110-82-7	Cyclohexane	84.16	2.16		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.18		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.16		0.080	0.027
64-17-5	Ethanol	46.07	10.6		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.41		0.080	0.027
142-82-5	Heptane	100.21	2.16		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.81		0.40	0.031
110-54-3	Hexane	86.17	1.84		0.20	0.013
496-11-7	Indane	118.18	2.35		0.080	0.080
95-13-6	Indene	116.16	2.42		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.99		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.26		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.20		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.65		0.080	0.048
91-20-3	Naphthalene	128.17	2.05		0.20	0.036
95-47-6	o-Xylene	106.17	2.36		0.080	0.024
115-07-1	Propene	42.08	2.03		0.20	0.031
100-42-5	Styrene	104.15	2.40		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.19		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.20		0.40	0.025
110-02-1	Thiophene	84.14	2.11		0.080	0.080
108-88-3	Toluene	92.14	2.29		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.96		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.25		0.080	0.019
79-01-6	Trichloroethene	131.39	2.21		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.10		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.05		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-976/1002

Matrix: Air Lab File ID: JCCVC19-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J031914,TO15,,140-0000532-002
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 -	8.702	0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 -	14.283	0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 -	14.985	0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

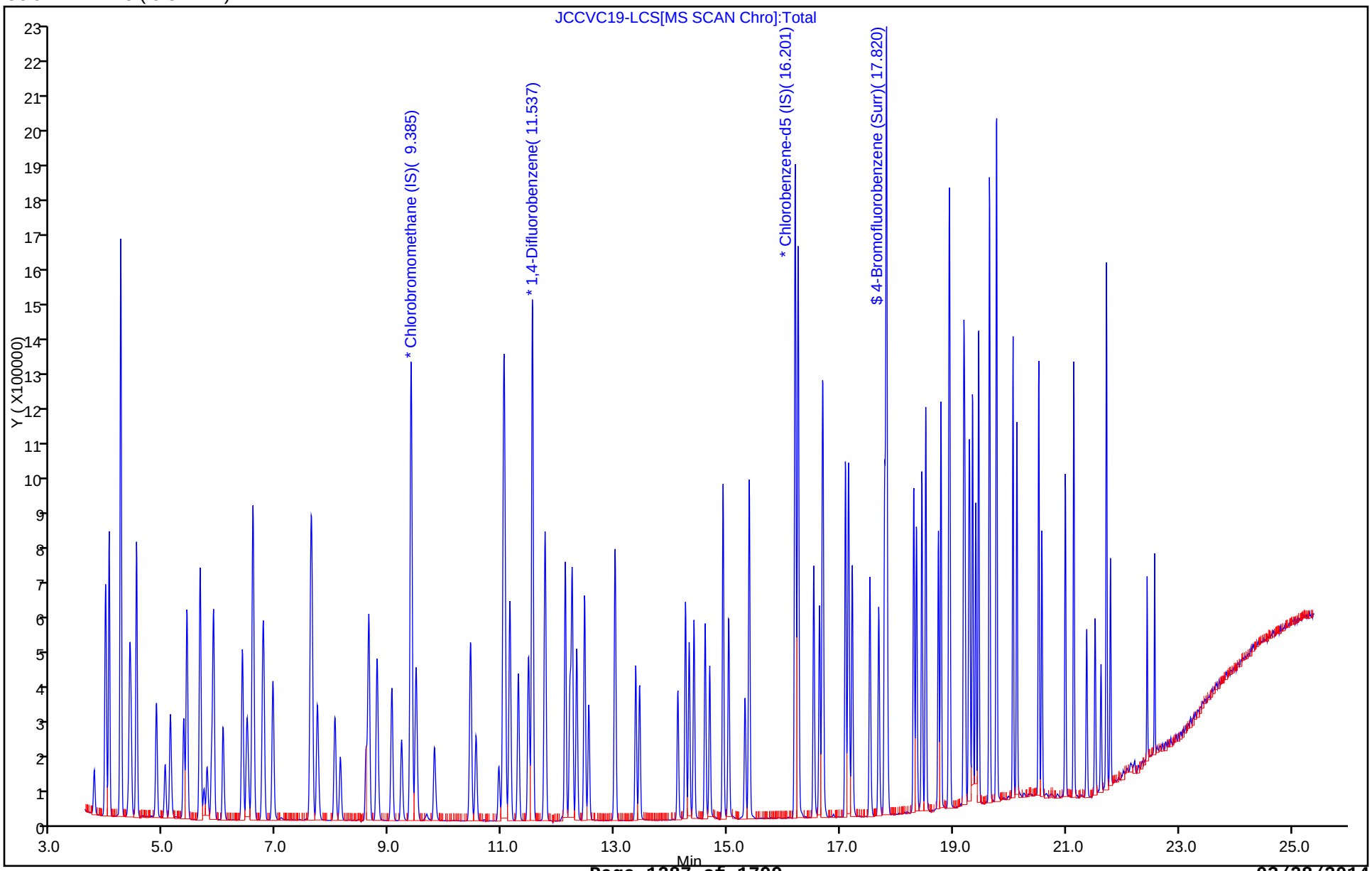
Report Date: 19-Mar-2014 17:19:20 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d

Injection Date:	19-Mar-2014 11:06:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.82		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.73		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.26		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.68		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.83		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.30		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.52		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.72		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.69		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.18		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.51		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.83		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.66		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.69		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.49		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.58		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.70		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.69		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.71		0.40	0.080
591-78-6	2-Hexanone	100.20	1.75		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.89		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	1.75		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.74		0.20	0.018
67-64-1	Acetone	58.08	1.05	J	2.0	0.56
71-43-2	Benzene	78.11	1.76		0.080	0.022
100-44-7	Benzyl chloride	126.58	1.59		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.73		0.080	0.018
75-25-2	Bromoform	252.75	1.62		0.080	0.019
74-83-9	Bromomethane	94.94	1.98		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.05		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	1.79		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.64		0.080	0.020
75-00-3	Chloroethane	64.52	1.98		0.080	0.014
67-66-3	Chloroform	119.38	1.79		0.080	0.015
74-87-3	Chloromethane	50.49	2.04		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.89		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.65		0.080	0.030
110-82-7	Cyclohexane	84.16	1.85		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.74		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.10		0.080	0.027
64-17-5	Ethanol	46.07	9.32		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.70		0.080	0.027
142-82-5	Heptane	100.21	1.69		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.43		0.40	0.031
110-54-3	Hexane	86.17	1.70		0.20	0.013
496-11-7	Indane	118.18	1.70		0.080	0.080
95-13-6	Indene	116.16	1.75		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.81		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.83		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.13		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	3.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.50		0.20	0.036
95-47-6	o-Xylene	106.17	1.67		0.080	0.024
115-07-1	Propene	42.08	1.93		0.20	0.031
100-42-5	Styrene	104.15	1.64		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.70		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.73		0.40	0.025
110-02-1	Thiophene	84.14	1.72		0.080	0.080
108-88-3	Toluene	92.14	1.69		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.90		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.70		0.080	0.019
79-01-6	Trichloroethene	131.39	1.78		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.06		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.06		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-984/1002

Matrix: Air Lab File ID: JCCVC21-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCV/LCS,,2,6,,ccvis
Misc. Info.: J032114,TO15,,140-0000540-002
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 -	8.695	0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 -	14.277	0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 -	14.973	0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

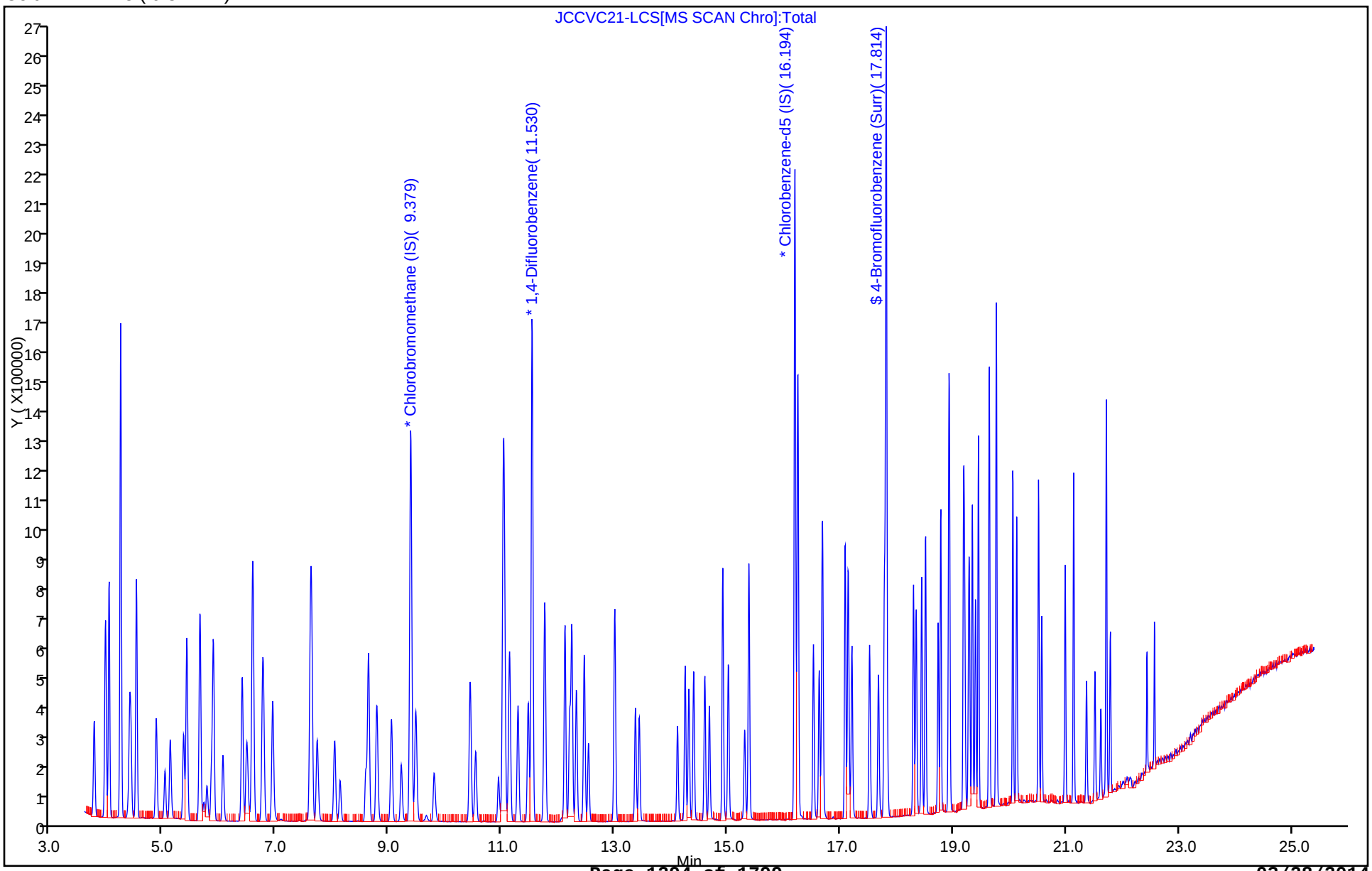
Report Date: 21-Mar-2014 14:37:24 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d

Injection Date:	21-Mar-2014 11:30:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.11		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.04		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.19		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.87		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.73		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.02		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.49		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.50		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.06		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.59		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.52		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.93		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.65		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.33		0.080	0.026
106-99-0	1,3-Butadiene	54.09	1.93		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.50		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.49		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.42		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.63		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.47		0.40	0.080
591-78-6	2-Hexanone	100.20	1.41		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.88		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.24		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.31		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.15		0.20	0.018
67-64-1	Acetone	58.08	1.82	J	2.0	0.56
71-43-2	Benzene	78.11	1.80		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.40		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.99		0.080	0.018
75-25-2	Bromoform	252.75	2.76		0.080	0.019
74-83-9	Bromomethane	94.94	2.33		0.080	0.013
75-15-0	Carbon disulfide	76.14	1.83		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.36		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.17		0.080	0.020
75-00-3	Chloroethane	64.52	2.15		0.080	0.014
67-66-3	Chloroform	119.38	1.95		0.080	0.015
74-87-3	Chloromethane	50.49	1.78		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.82		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.87		0.080	0.030
110-82-7	Cyclohexane	84.16	1.62		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.34		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.25		0.080	0.027
64-17-5	Ethanol	46.07	8.52		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.07		0.080	0.027
142-82-5	Heptane	100.21	1.64		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.94		0.40	0.031
110-54-3	Hexane	86.17	1.45		0.20	0.013
496-11-7	Indane	118.18	2.40		0.080	0.080
95-13-6	Indene	116.16	2.51		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.79		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.99		0.40	0.068
75-09-2	Methylene Chloride	84.93	1.92		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.51		0.080	0.048
91-20-3	Naphthalene	128.17	2.46		0.20	0.036
95-47-6	o-Xylene	106.17	2.15		0.080	0.024
115-07-1	Propene	42.08	1.34		0.20	0.031
100-42-5	Styrene	104.15	2.31		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.03		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.23		0.40	0.025
110-02-1	Thiophene	84.14	1.78		0.080	0.080
108-88-3	Toluene	92.14	1.95		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.93		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.86		0.080	0.019
79-01-6	Trichloroethene	131.39	1.91		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.60		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.12		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-990/1002

Matrix: Air Lab File ID: ECCVC24-LCS.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
Misc. Info.: E032414,TO155,,140-0000541-002
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 -	13.452	0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 -	14.142	0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

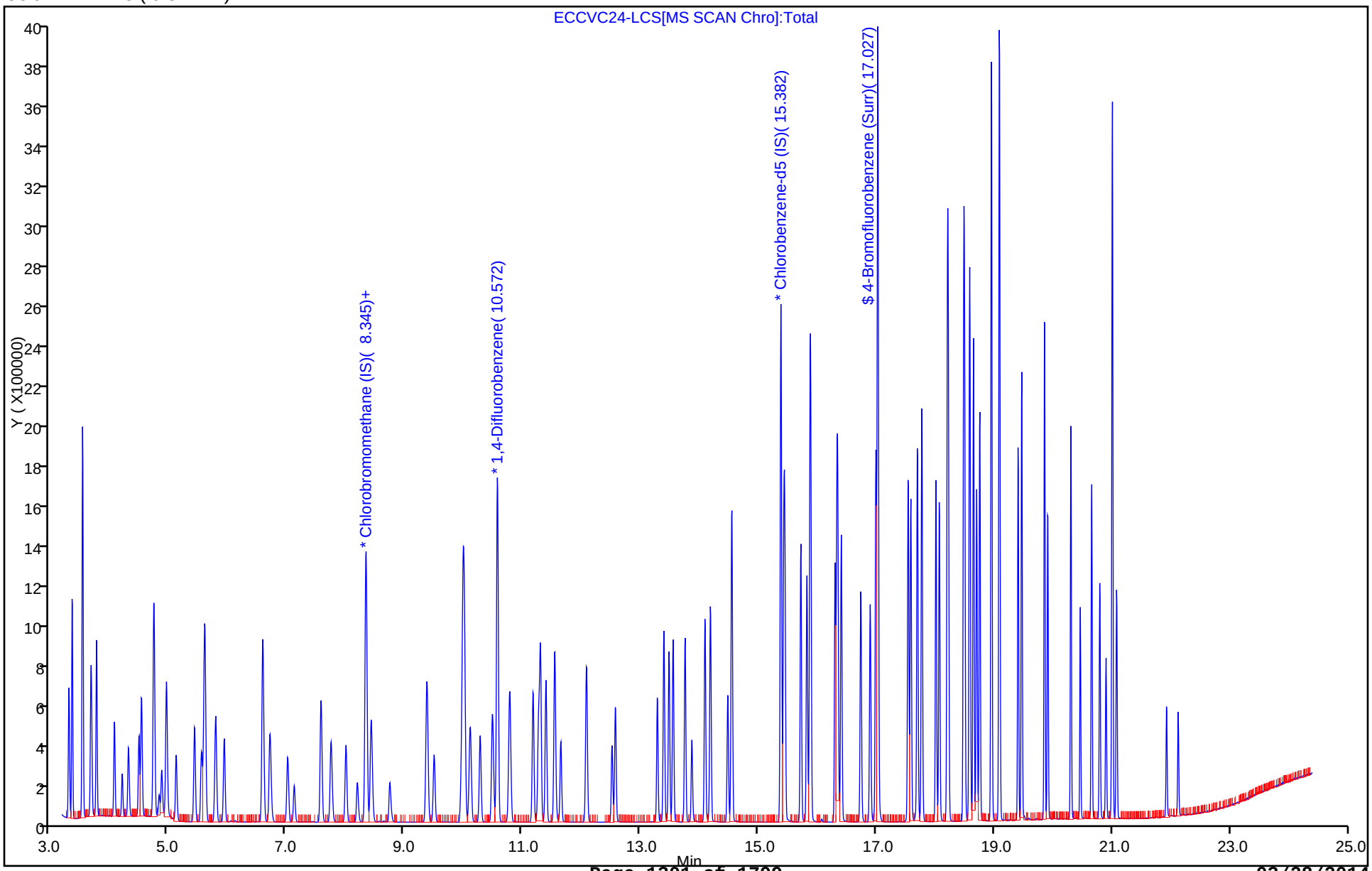
Report Date: 24-Mar-2014 13:17:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d

Injection Date:	24-Mar-2014 09:15:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32(mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32(mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32(mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32(mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32(mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32(mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32(mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32(mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32(mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32(mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32(mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: MJ Start Date: 03/11/2014 12:12

Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32(mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32(mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32(mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32(mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32(mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32(mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32(mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32(mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32(mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32(mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32(mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCSC11.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: MJ Start Date: 03/18/2014 09:48

Analysis Batch Number: 971 End Date: 03/19/2014 09:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-971/1		03/18/2014 09:48	1	JBFBC18.D	RTX-5 0.32(mm)
CCVIS 140-971/2		03/18/2014 10:16	1	JCCVC18.D	RTX-5 0.32(mm)
LCS 140-971/1002		03/18/2014 10:16	1	JCCVC18-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 12:06	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 13:07	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 13:07	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 14:00	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 14:55	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 15:49	1		RTX-5 0.32(mm)
MB 140-971/9		03/18/2014 16:42	1	MB200mL.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 18:17	1		RTX-5 0.32(mm)
140-1063-14	IA2-E14	03/18/2014 19:12	1	JC18P201.D	RTX-5 0.32(mm)
140-1063-15	IA3-E14	03/18/2014 20:05	1.84	JC18P202.D	RTX-5 0.32(mm)
140-1063-16	PCV-IA1-B5	03/18/2014 21:00	1	JC18P203.D	RTX-5 0.32(mm)
ZZZZZ		03/18/2014 21:54	1		RTX-5 0.32(mm)
ZZZZZ		03/18/2014 22:48	1.43		RTX-5 0.32(mm)
140-1063-2	IA5-E14	03/18/2014 23:43	1	JC18P205.D	RTX-5 0.32(mm)
140-1063-3	IA6-E14	03/19/2014 00:36	1	JC18P206.D	RTX-5 0.32(mm)
140-1063-4	IA7-E14	03/19/2014 01:31	1	JC18P207.D	RTX-5 0.32(mm)
140-1063-5	AMB-2	03/19/2014 02:25	1	JC18P208.D	RTX-5 0.32(mm)
140-1063-6	AMB-4	03/19/2014 03:20	1	JC18P209.D	RTX-5 0.32(mm)
140-1063-8	PCV-IA2-B7	03/19/2014 04:13	1	JC18P210.D	RTX-5 0.32(mm)
140-1063-9	PCV-IA3-B7	03/19/2014 05:07	1	JC18P211.D	RTX-5 0.32(mm)
140-1063-10	PCV-IA1-B11	03/19/2014 06:01	1	JC18P212.D	RTX-5 0.32(mm)
140-1063-11	PCV-IA2-B11	03/19/2014 06:56	1	JC18P213.D	RTX-5 0.32(mm)
140-1063-12	PCV-IA3-B11	03/19/2014 07:51	1.64	JC18P214.D	RTX-5 0.32(mm)
140-1063-13	IA1-E14	03/19/2014 08:44	1	JC18P215.D	RTX-5 0.32(mm)
140-1063-17	PCV-IA2-B5	03/19/2014 09:39	1	JC18P216.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: MJ Start Date: 03/19/2014 10:38

Analysis Batch Number: 976 End Date: 03/20/2014 07:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-976/1		03/19/2014 10:38	1	JBFBC19.D	RTX-5 0.32(mm)
CCVIS 140-976/2		03/19/2014 11:06	1	JCCVC19.D	RTX-5 0.32(mm)
LCS 140-976/1002		03/19/2014 11:06	1	JCCVC19-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/19/2014 13:17	1		RTX-5 0.32(mm)
MB 140-976/1004		03/19/2014 13:17	1	140-1071-a-10-MB.d	RTX-5 0.32(mm)
ZZZZZ		03/19/2014 14:11	1		RTX-5 0.32(mm)
ZZZZZ		03/19/2014 15:05	1		RTX-5 0.32(mm)
ZZZZZ		03/19/2014 15:59	1		RTX-5 0.32(mm)
140-1063-1	IA4-E14	03/19/2014 16:52	1.43	JC19P102.D	RTX-5 0.32(mm)
140-1063-19	AMB-1	03/19/2014 19:31	1	JC19P104.D	RTX-5 0.32(mm)
140-1063-20	AMB-3	03/19/2014 20:25	1	JC19P105.D	RTX-5 0.32(mm)
140-1063-21	IA1-E19	03/19/2014 21:18	1	JC19P106.D	RTX-5 0.32(mm)
140-1063-22	IA2-E19	03/19/2014 22:12	1	JC19P107.D	RTX-5 0.32(mm)
140-1063-23	IA1-E17	03/19/2014 23:06	1	JC19P108.D	RTX-5 0.32(mm)
140-1063-24	IA1FD-E17	03/20/2014 00:01	1	JC19P109.D	RTX-5 0.32(mm)
ZZZZZ		03/20/2014 00:55	1		RTX-5 0.32(mm)
140-1063-25	IA2-E17	03/20/2014 01:49	1	JC19P110.D	RTX-5 0.32(mm)
ZZZZZ		03/20/2014 02:43	1		RTX-5 0.32(mm)
ZZZZZ		03/20/2014 03:37	1		RTX-5 0.32(mm)
ZZZZZ		03/20/2014 04:32	1		RTX-5 0.32(mm)
ZZZZZ		03/20/2014 05:26	1		RTX-5 0.32(mm)
140-1063-16 DL	PCV-IA1-B5 DL	03/20/2014 07:15	1	JC19P101R.D	RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: MJ Start Date: 03/21/2014 11:03

Analysis Batch Number: 984 End Date: 03/22/2014 07:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-984/1		03/21/2014 11:03	1	JBFBC21.D	RTX-5 0.32(mm)
CCVIS 140-984/2		03/21/2014 11:30	1	JCCVC21.D	RTX-5 0.32(mm)
LCS 140-984/1002		03/21/2014 11:30	1	JCCVC21-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 13:45	1		RTX-5 0.32(mm)
MB 140-984/5		03/21/2014 14:39	1	200BLK.D	RTX-5 0.32(mm)
140-1063-18	PCV-IAPC-B5	03/21/2014 15:32	1	JC21P101.D	RTX-5 0.32(mm)
ZZZZZ		03/21/2014 16:26	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 17:20	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 18:13	1.66		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 19:07	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 20:00	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 20:53	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 21:46	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 22:40	1		RTX-5 0.32(mm)
ZZZZZ		03/21/2014 23:34	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 00:28	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 01:22	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 02:16	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 03:10	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 04:04	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 04:58	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 06:47	1		RTX-5 0.32(mm)
ZZZZZ		03/22/2014 07:41	1		RTX-5 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Instrument ID: ME Start Date: 03/24/2014 08:44

Analysis Batch Number: 990 End Date: 03/25/2014 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-990/1		03/24/2014 08:44	1	EBFBC24.D	RTX-5 0.32(mm)
CCVIS 140-990/2		03/24/2014 09:15	1	ECCVC24.D	RTX-5 0.32(mm)
LCS 140-990/1002		03/24/2014 09:15	1	ECCVC24-LCS.d	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 11:00	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 11:45	1		RTX-5 0.32(mm)
MB 140-990/1005		03/24/2014 11:45	1	140-1086-a-9-MB .d	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 12:32	1		RTX-5 0.32(mm)
140-1063-17 DL	PCV-IA2-B5 DL	03/24/2014 13:17	1	EC24P104.D	RTX-5 0.32(mm)
140-1063-18 DL	PCV-IAPC-B5 DL	03/24/2014 14:38	1	EC24P105.D	RTX-5 0.32(mm)
ZZZZZ		03/24/2014 15:23	332.65		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 16:08	3306.12		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 16:53	8816.33		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 17:39	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 18:24	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 19:08	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 19:53	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 20:38	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 21:24	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 22:09	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 22:54	1		RTX-5 0.32(mm)
ZZZZZ		03/24/2014 23:39	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 00:24	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 01:09	1		RTX-5 0.32(mm)
ZZZZZ		03/25/2014 01:55	1		RTX-5 0.32(mm)

Summa Canister Dilution Worksheet

Client: AECOM, Inc.

Job No.: 140-1063-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Date	Analyst
140-1063-1	6	-8.3	0.72	4.34	0.5	1.03	6.20		1.43	1.43	03/18/14 8:41	Goss, Scot E
140-1063-12	6	-11	0.63	3.79	0.5	1.03	6.20		1.64	1.64	03/18/14 8:56	Goss, Scot E
140-1063-15	6	-13.7	0.54	3.25	0.0	1.00	6.00		1.84	1.84	03/18/14 9:01	Goss, Scot E

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10410 | Lab Sample ID: 140-851-1

Matrix: Air | Lab File ID: 140-851-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 12:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10410 | Lab Sample ID: 140-851-1

Matrix: Air | Lab File ID: 140-851-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 12:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10410 | Lab Sample ID: 140-851-1

Matrix: Air | Lab File ID: 140-851-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 12:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10410 Lab Sample ID: 140-851-1

Matrix: Air Lab File ID: 140-851-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 12:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-1.D
Lims ID: 140-851-A-1 Lab Sample ID: 140-851-1
Client ID: 10410
Sample Type: Client
Inject. Date: 10-Feb-2014 12:53:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10410
Misc. Info.: E021014,TO155,,140-0000422-004
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Feb-2014 15:31:55 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 15:32:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	302206	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1528965	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1316979	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	87	1109828	3.85	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	93	33461	0.1847	

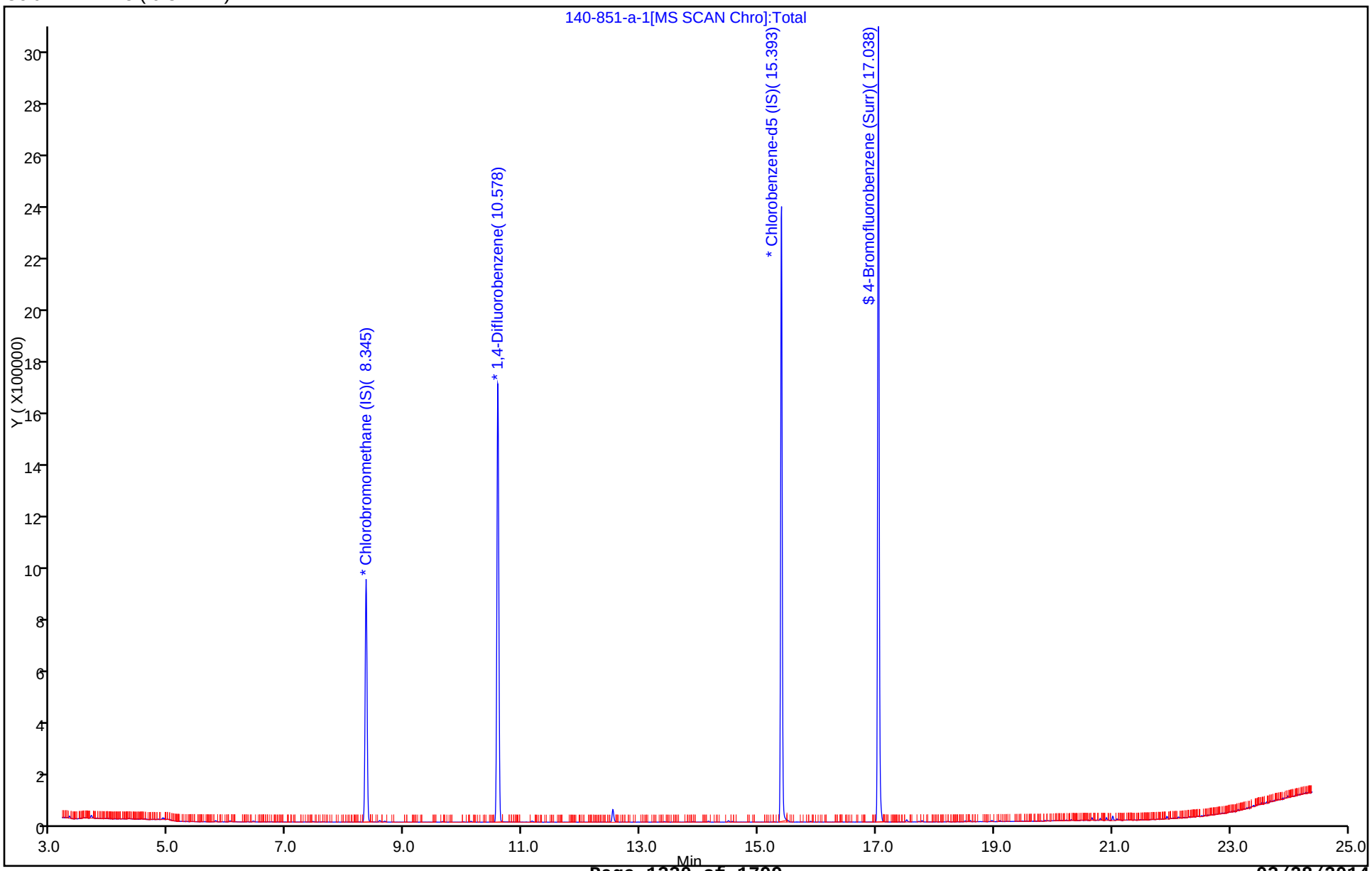
Report Date: 10-Feb-2014 15:32:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-1.D

Injection Date:	10-Feb-2014 12:53:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-1	Lab Sample ID:	140-851-1	Worklist Smp#:	4
Client ID:	10410				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10991 | Lab Sample ID: 140-851-2

Matrix: Air | Lab File ID: 140-851-a-2R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10991 | Lab Sample ID: 140-851-2

Matrix: Air | Lab File ID: 140-851-a-2R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10991 | Lab Sample ID: 140-851-2

Matrix: Air | Lab File ID: 140-851-a-2R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10991 Lab Sample ID: 140-851-2

Matrix: Air Lab File ID: 140-851-a-2R.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 01:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 11-Feb-2014 07:23:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-2R.D
Lims ID: 140-851-A-2 Lab Sample ID: 140-851-2
Client ID: 10991
Sample Type: Client
Inject. Date: 11-Feb-2014 01:53:30 ALS Bottle#: 3 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10991
Misc. Info.: E021014,TO155,,140-0000422-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:23:00 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:23:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	241259	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1208659	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1062609	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	941763	4.05	

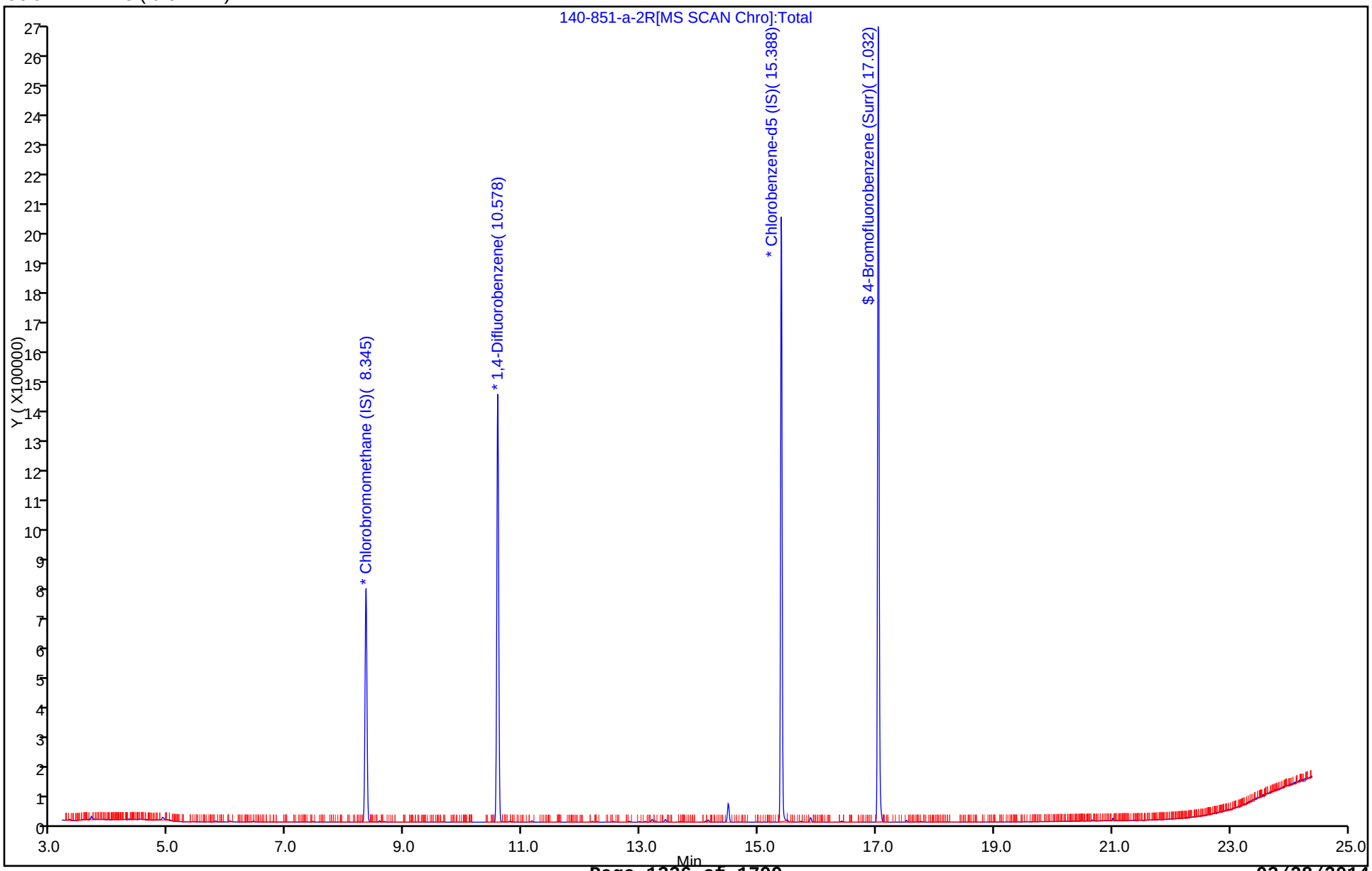
Report Date: 11-Feb-2014 07:23:01 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-2R.D

Injection Date:	11-Feb-2014 01:53:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-2	Lab Sample ID:	140-851-2	Worklist Smp#:	21
Client ID:	10991				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-851-3

Matrix: Air | Lab File ID: 140-851-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-851-3

Matrix: Air | Lab File ID: 140-851-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-851-3

Matrix: Air | Lab File ID: 140-851-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-851-3

Matrix: Air Lab File ID: 140-851-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 14:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-3.D
Lims ID: 140-851-A-3 Lab Sample ID: 140-851-3
Client ID: 10426
Sample Type: Client
Inject. Date: 10-Feb-2014 14:29:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10426
Misc. Info.: E021014,TO155,,140-0000422-006
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Feb-2014 15:31:55 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 15:32:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	274480	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1391700	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1219017	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	87	1048621	3.93	
	6 Chlorodifluoromethane	67	3.303	3.298	0.005	91	2289	0.0595	
	19 2-Methylbutane	43	4.538	4.544	-0.006	48	1399	0.0146	
	31 Methylene Chloride	84	5.800	5.795	0.005	77	5174	0.0660	
	62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	78	6197	0.0376	

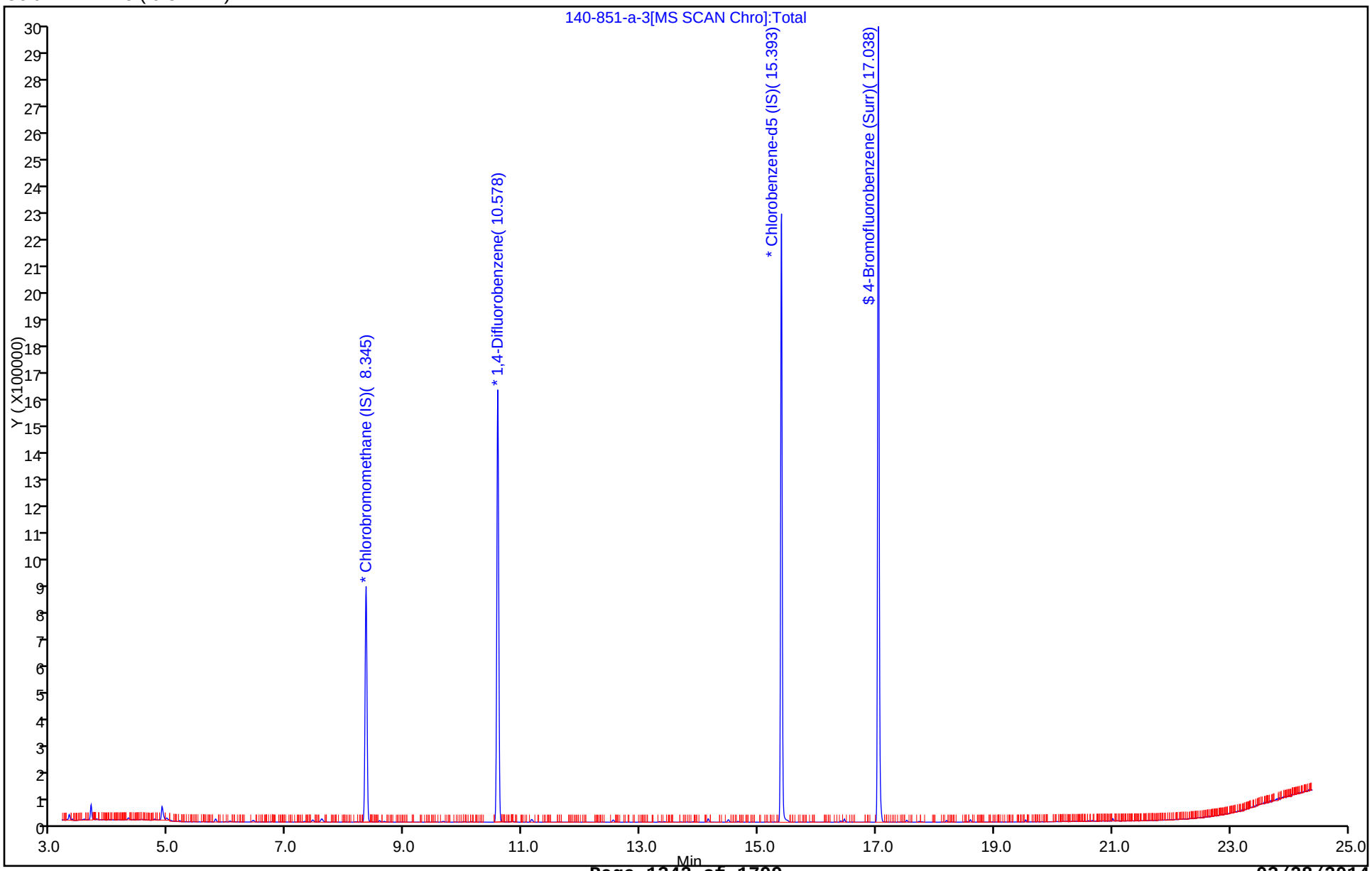
Report Date: 10-Feb-2014 15:41:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-3.D

Injection Date:	10-Feb-2014 14:29:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-3	Lab Sample ID:	140-851-3	Worklist Smp#:	6
Client ID:	10426				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10038 | Lab Sample ID: 140-851-4

Matrix: Air | Lab File ID: 140-851-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 15:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10038 | Lab Sample ID: 140-851-4

Matrix: Air | Lab File ID: 140-851-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 15:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10038 | Lab Sample ID: 140-851-4

Matrix: Air | Lab File ID: 140-851-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 15:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10038 Lab Sample ID: 140-851-4

Matrix: Air Lab File ID: 140-851-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 15:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-4.D
Lims ID: 140-851-A-4 Lab Sample ID: 140-851-4
Client ID: 10038
Sample Type: Client
Inject. Date: 10-Feb-2014 15:14:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10038
Misc. Info.: E021014,TO155,,140-0000422-007
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Feb-2014 16:22:48 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 16:22:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	235963	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1110256	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	997148	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	86	856623	3.92	

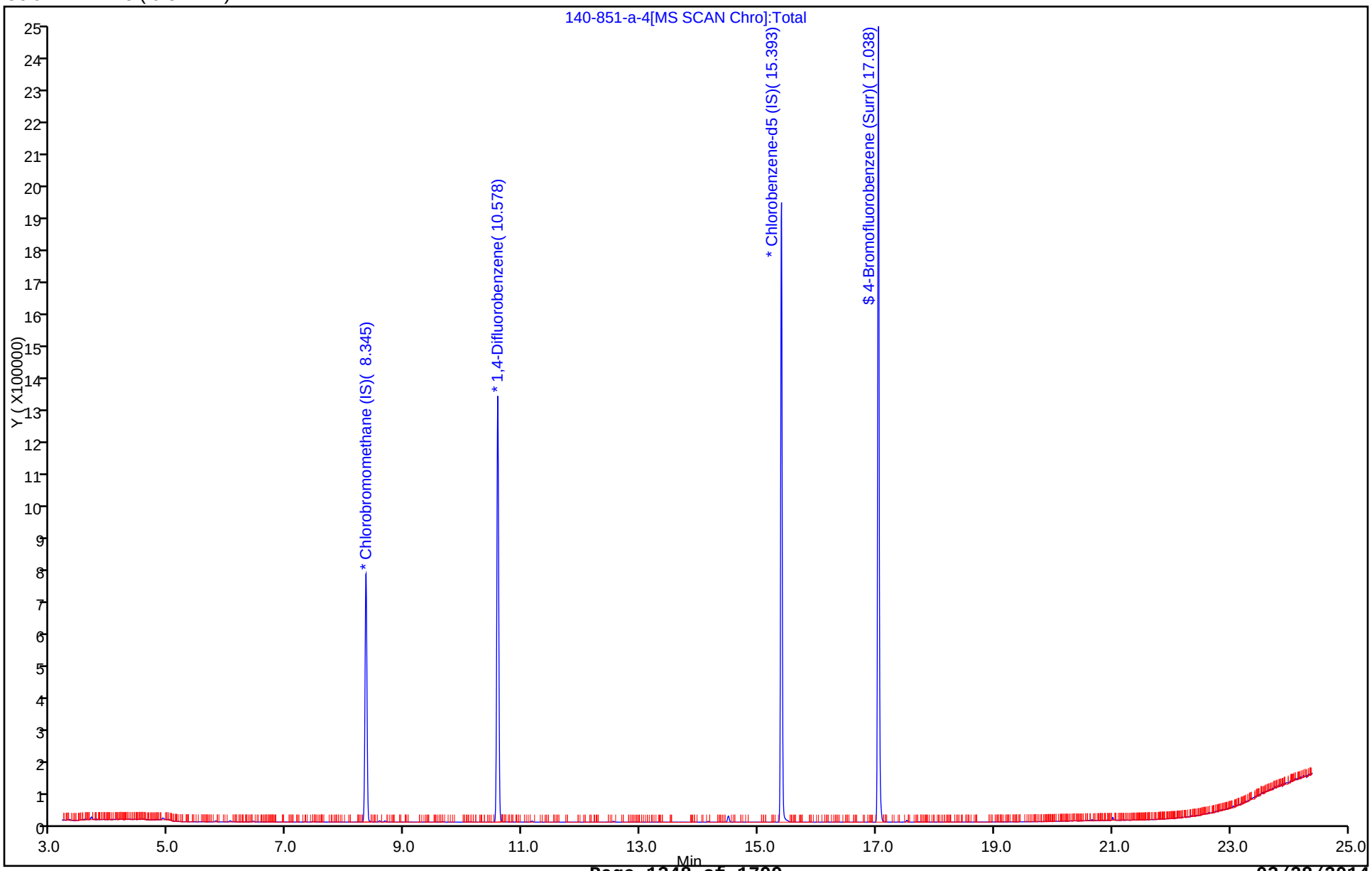
Report Date: 10-Feb-2014 16:22:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-4.D

Injection Date:	10-Feb-2014 15:14:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-4	Lab Sample ID:	140-851-4	Worklist Smp#:	7
Client ID:	10038				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09614 | Lab Sample ID: 140-851-5

Matrix: Air | Lab File ID: 140-851-a-5R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 03:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09614 | Lab Sample ID: 140-851-5

Matrix: Air | Lab File ID: 140-851-a-5R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 03:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09614 | Lab Sample ID: 140-851-5

Matrix: Air | Lab File ID: 140-851-a-5R.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/11/2014 03:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 09614 Lab Sample ID: 140-851-5

Matrix: Air Lab File ID: 140-851-a-5R.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 03:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-5R.D
Lims ID: 140-851-A-5 Lab Sample ID: 140-851-5
Client ID: 09614
Sample Type: Client
Inject. Date: 11-Feb-2014 03:23:30 ALS Bottle#: 5 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09614
Misc. Info.: E021014,TO155,,140-0000422-023
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:24:10 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:23:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	226464	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1050800	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	92	987410	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	870462	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	83	6835	0.0549	

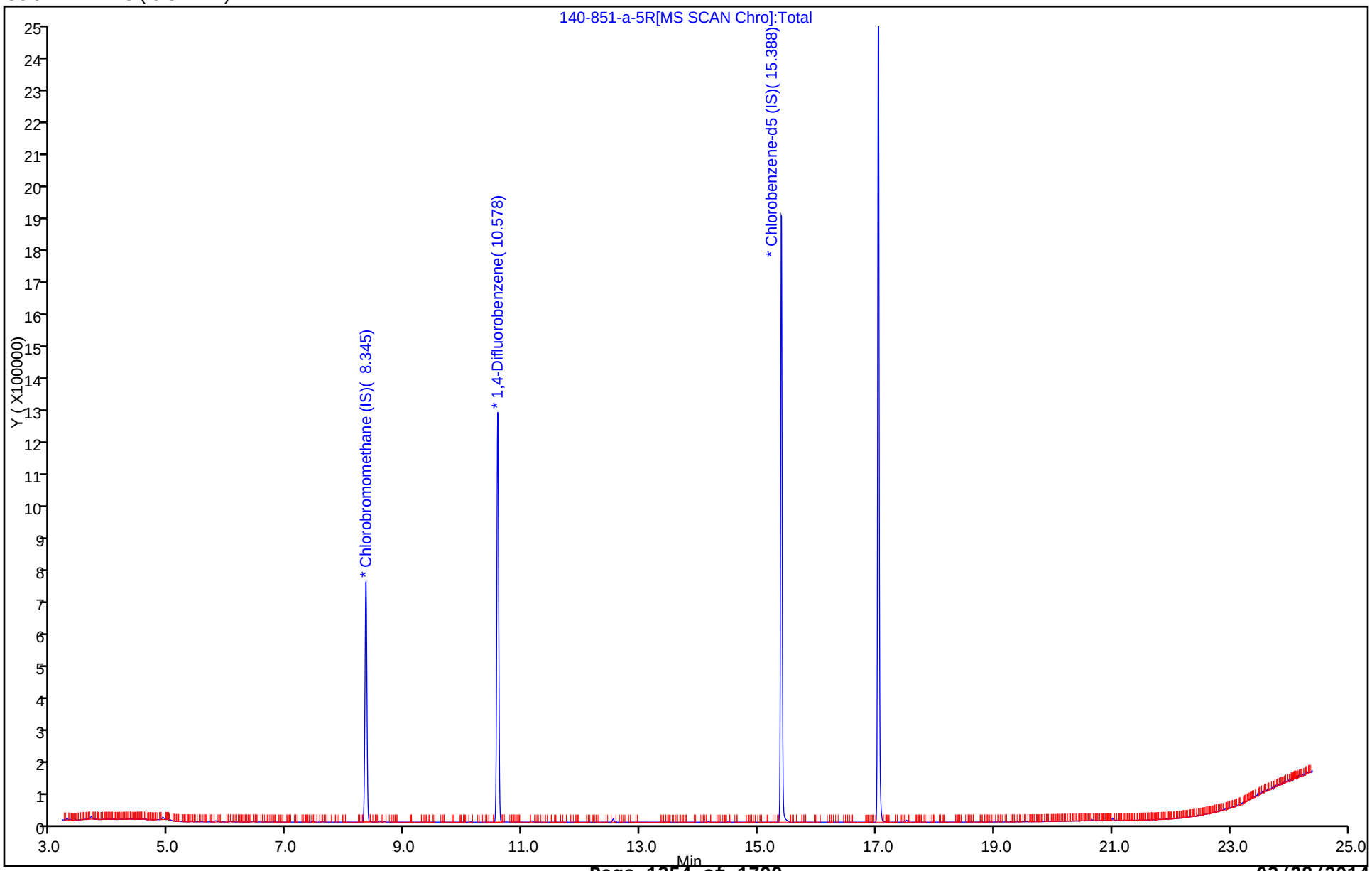
Report Date: 11-Feb-2014 07:24:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-5R.D

Injection Date:	11-Feb-2014 03:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-5	Lab Sample ID:	140-851-5	Worklist Smp#:	23
Client ID:	09614				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09921 | Lab Sample ID: 140-851-6

Matrix: Air | Lab File ID: 140-851-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09921 | Lab Sample ID: 140-851-6

Matrix: Air | Lab File ID: 140-851-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09921 | Lab Sample ID: 140-851-6

Matrix: Air | Lab File ID: 140-851-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 09921 Lab Sample ID: 140-851-6

Matrix: Air Lab File ID: 140-851-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-6.D				
Lims ID:	140-851-A-6	Lab Sample ID:	140-851-6		
Client ID:	09921				
Sample Type:	Client				
Inject. Date:	10-Feb-2014 16:45:30	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09921				
Misc. Info.:	E021014,TO155,,140-0000422-009				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	10-Feb-2014 17:20:54	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK035				
First Level Reviewer: barlozhetskayaa		Date:	10-Feb-2014 17:20:54		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.351	0.0	82	251510	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1261736	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1103996	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	90	954770	3.95	

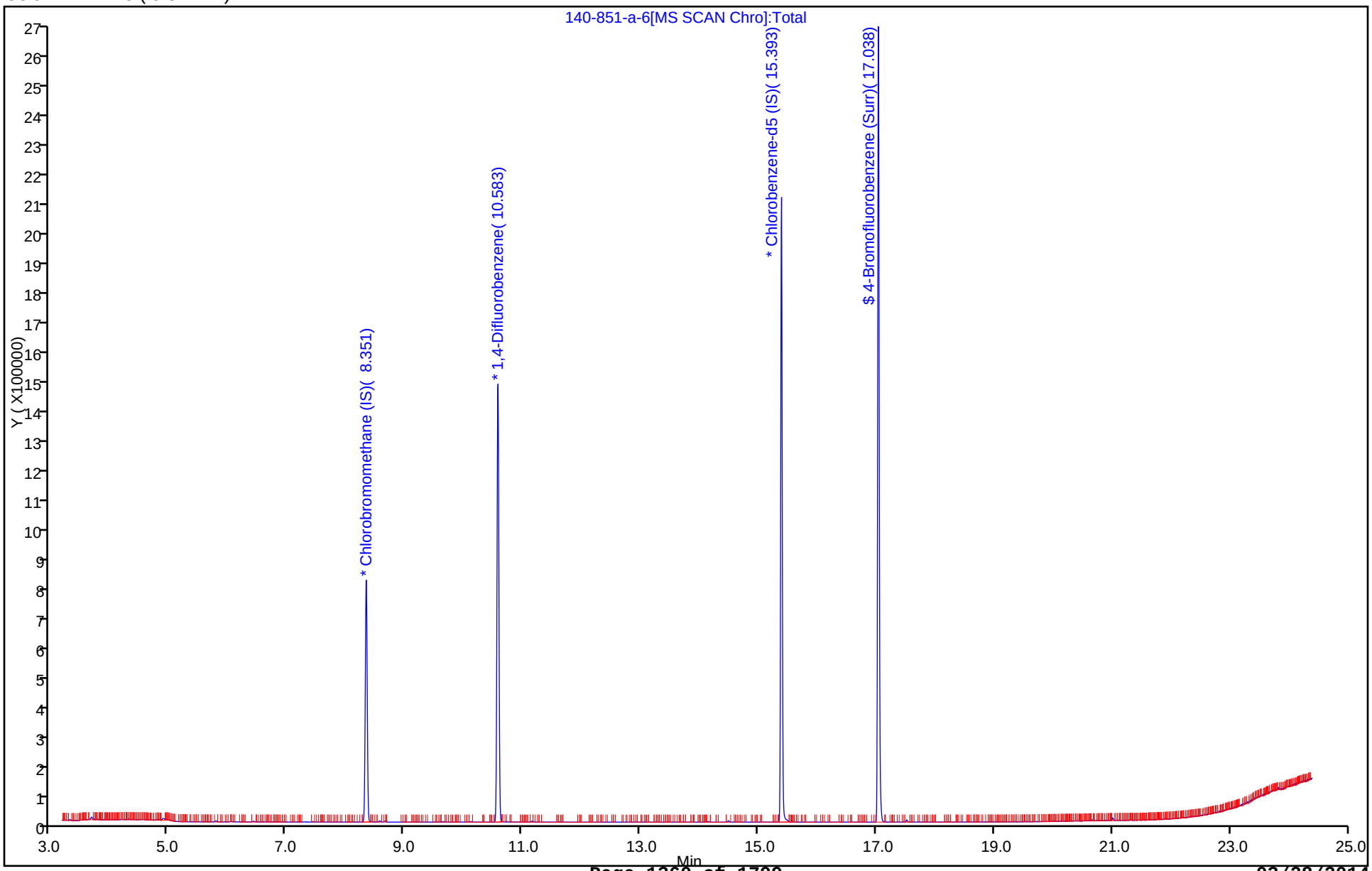
Report Date: 10-Feb-2014 17:20:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-6.D

Injection Date:	10-Feb-2014 16:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-6	Lab Sample ID:	140-851-6	Worklist Smp#:	9
Client ID:	09921				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10765 | Lab Sample ID: 140-851-7

Matrix: Air | Lab File ID: 140-851-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10765 | Lab Sample ID: 140-851-7

Matrix: Air | Lab File ID: 140-851-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10765 | Lab Sample ID: 140-851-7

Matrix: Air | Lab File ID: 140-851-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10765 Lab Sample ID: 140-851-7

Matrix: Air Lab File ID: 140-851-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-7.D				
Lims ID:	140-851-A-7	Lab Sample ID:	140-851-7		
Client ID:	10765				
Sample Type:	Client				
Inject. Date:	10-Feb-2014 17:30:30	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10765				
Misc. Info.:	E021014,TO155,,140-0000422-010				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	10-Feb-2014 18:08:23	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK035				
First Level Reviewer: barlozhetskayaa		Date:	10-Feb-2014 18:08:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.351	-0.001	82	244761	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1207675	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1069726	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	85	943329	4.03	

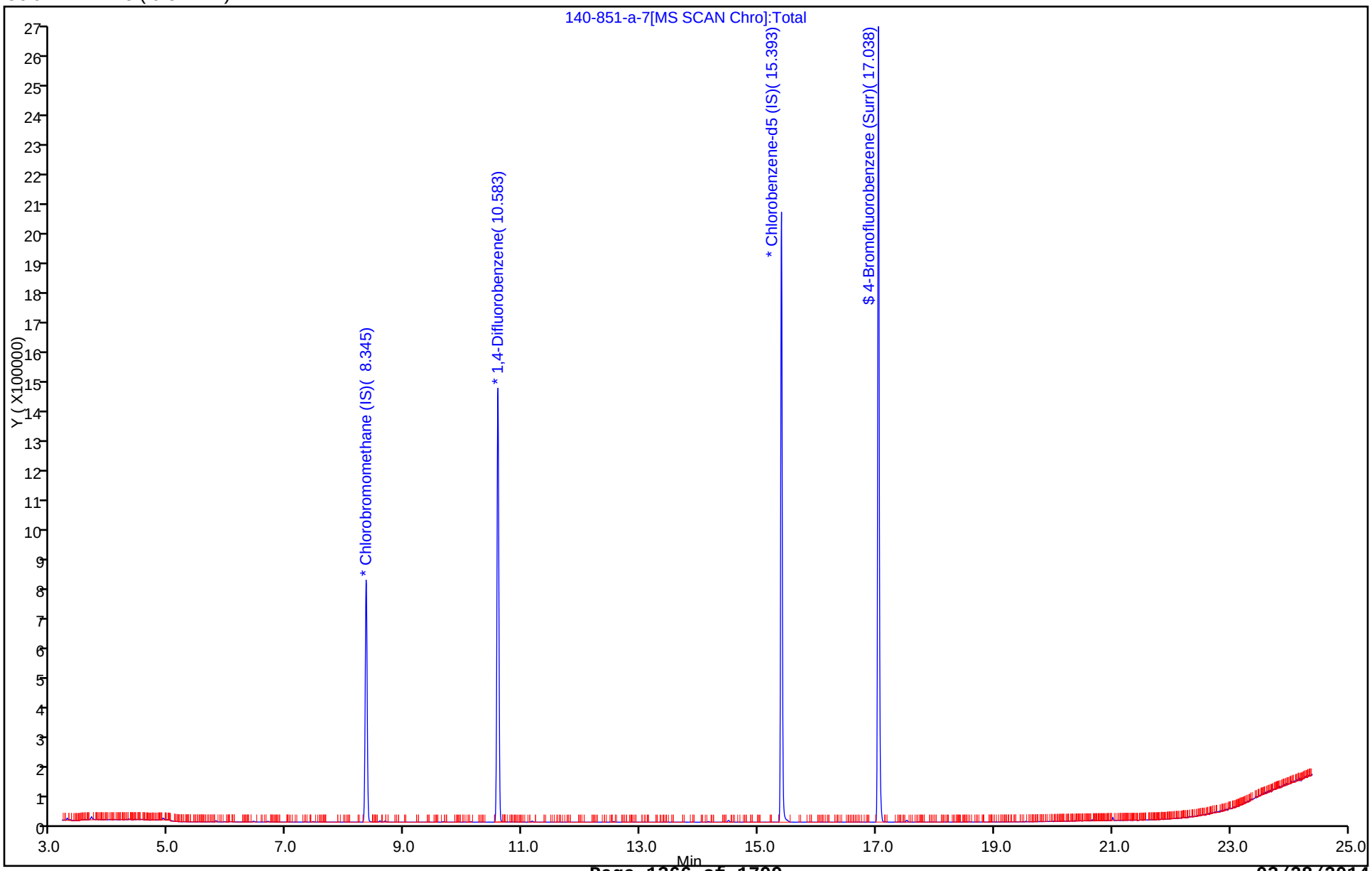
Report Date: 10-Feb-2014 18:08:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-7.D

Injection Date:	10-Feb-2014 17:30:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-7	Lab Sample ID:	140-851-7	Worklist Smp#:	10
Client ID:	10765				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10097 | Lab Sample ID: 140-851-8

Matrix: Air | Lab File ID: 140-851-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10097 Lab Sample ID: 140-851-8

Matrix: Air Lab File ID: 140-851-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10097 | Lab Sample ID: 140-851-8

Matrix: Air | Lab File ID: 140-851-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10097 Lab Sample ID: 140-851-8

Matrix: Air Lab File ID: 140-851-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-8.D				
Lims ID:	140-851-A-8	Lab Sample ID:	140-851-8		
Client ID:	10097				
Sample Type:	Client				
Inject. Date:	10-Feb-2014 18:16:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10097				
Misc. Info.:	E021014,TO155,,140-0000422-011				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	11-Feb-2014 07:19:22	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: tajh		Date:	11-Feb-2014 07:19:22		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	240114	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1205776	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1099698	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	959313	3.98	

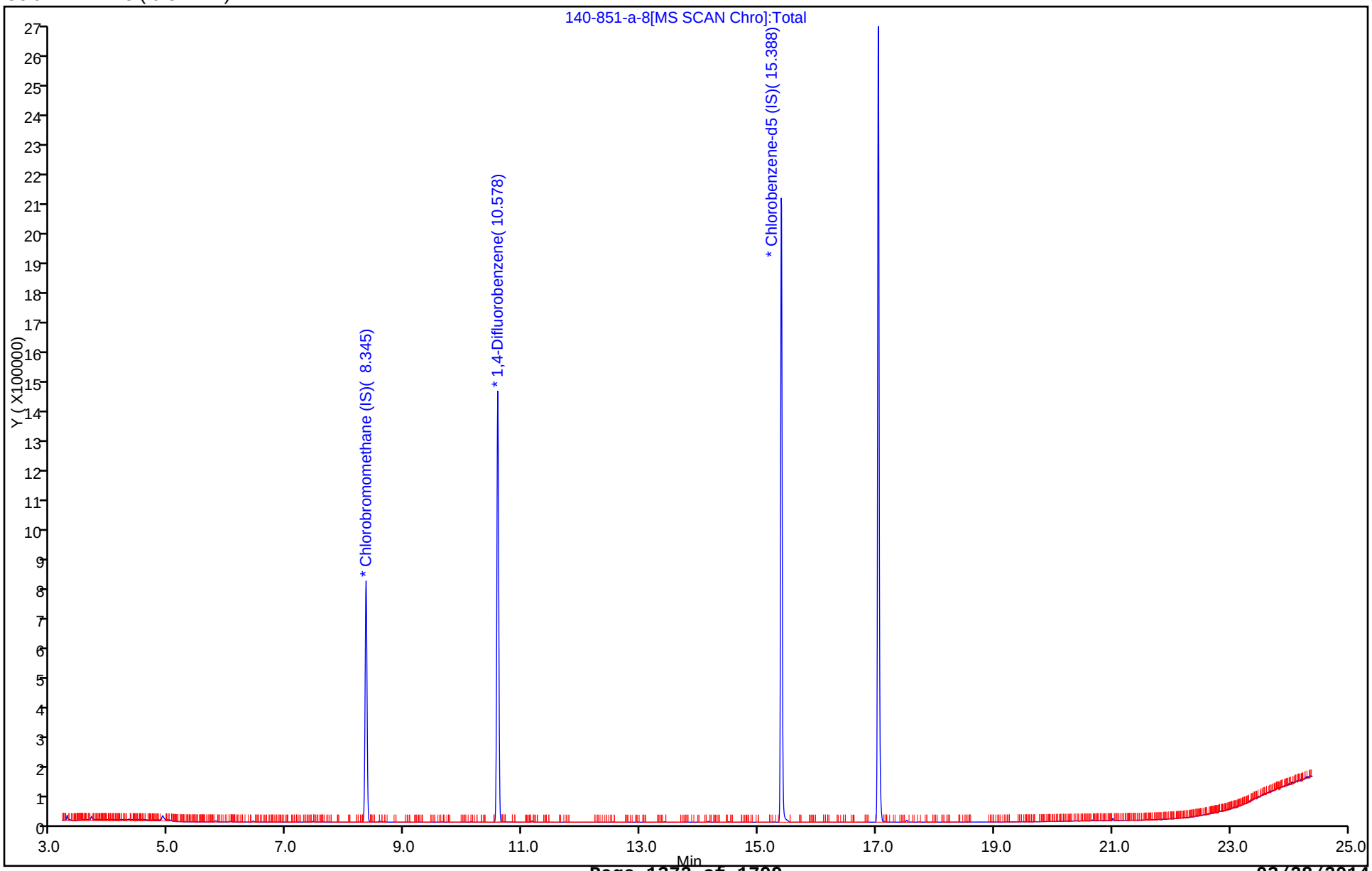
Report Date: 11-Feb-2014 07:19:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-8.D

Injection Date:	10-Feb-2014 18:16:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-8	Lab Sample ID:	140-851-8	Worklist Smp#:	11
Client ID:	10097				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10732 Lab Sample ID: 140-851-9

Matrix: Air Lab File ID: 140-851-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10732 | Lab Sample ID: 140-851-9

Matrix: Air | Lab File ID: 140-851-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 19:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10732 | Lab Sample ID: 140-851-9

Matrix: Air | Lab File ID: 140-851-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 19:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10732 Lab Sample ID: 140-851-9

Matrix: Air Lab File ID: 140-851-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-9.D				
Lims ID:	140-851-A-9	Lab Sample ID:	140-851-9		
Client ID:	10732				
Sample Type:	Client				
Inject. Date:	10-Feb-2014 19:02:30	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10732				
Misc. Info.:	E021014,TO155,,140-0000422-012				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	11-Feb-2014 07:19:49	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: tajh		Date:	11-Feb-2014 07:19:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	226870	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1108031	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1041032	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	917421	4.02	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	86	13191	0.1004	

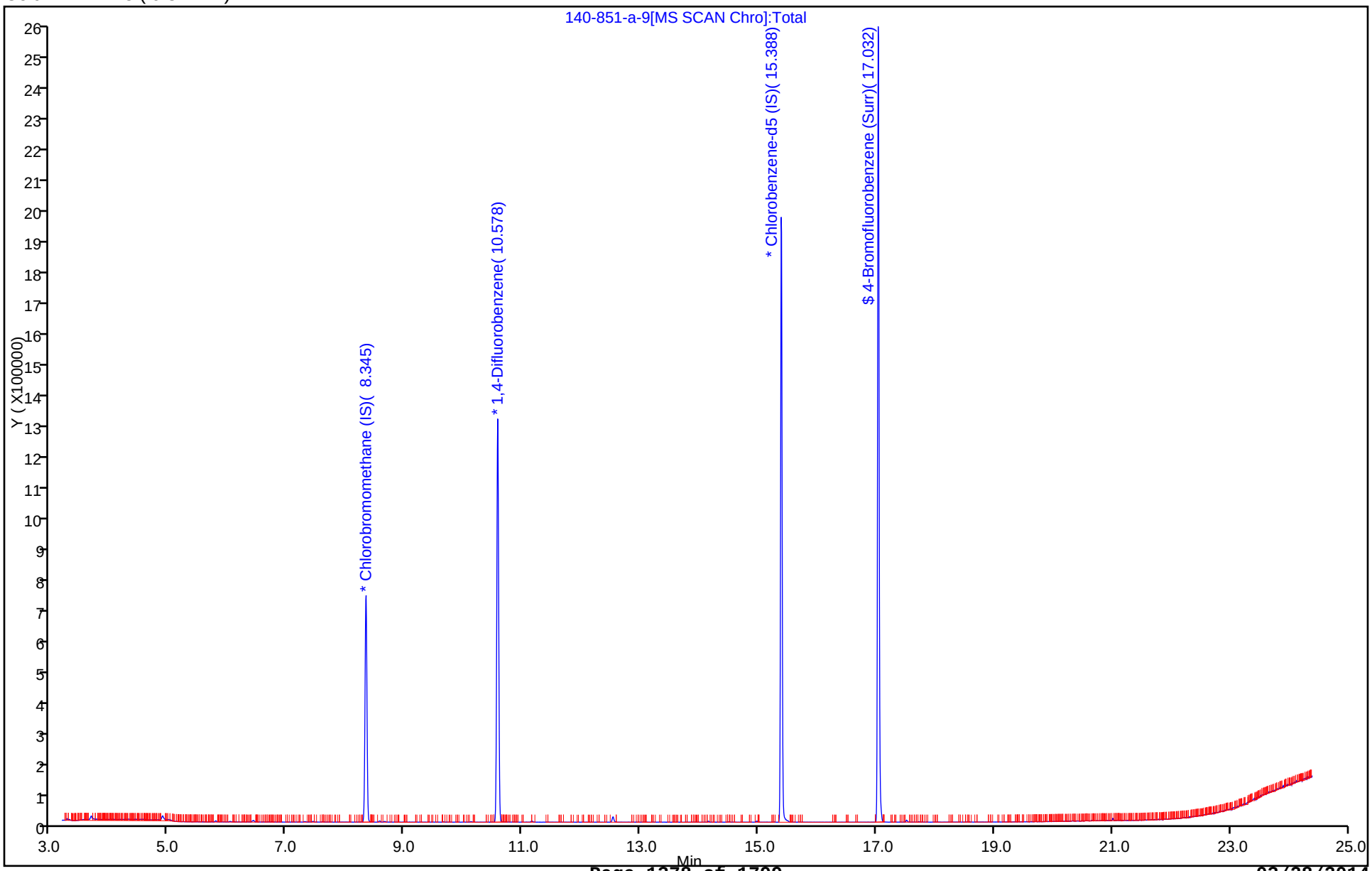
Report Date: 11-Feb-2014 07:19:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-9.D

Injection Date:	10-Feb-2014 19:02:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-9	Lab Sample ID:	140-851-9	Worklist Smp#:	12
Client ID:	10732				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10065 | Lab Sample ID: 140-851-10

Matrix: Air | Lab File ID: 140-851-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10065 | Lab Sample ID: 140-851-10

Matrix: Air | Lab File ID: 140-851-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10065 | Lab Sample ID: 140-851-10

Matrix: Air | Lab File ID: 140-851-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10065 Lab Sample ID: 140-851-10

Matrix: Air Lab File ID: 140-851-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-10.D
Lims ID: 140-851-A-10 Lab Sample ID: 140-851-10
Client ID: 10065
Sample Type: Client
Inject. Date: 10-Feb-2014 19:47:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10065
Misc. Info.: E021014,TO155,,140-0000422-013
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:20:08 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:20:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	256639	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1235852	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	92	1122464	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	976560	3.97	
9 Chloromethane	52	3.530	3.530	0.0	36	1799	0.0794	

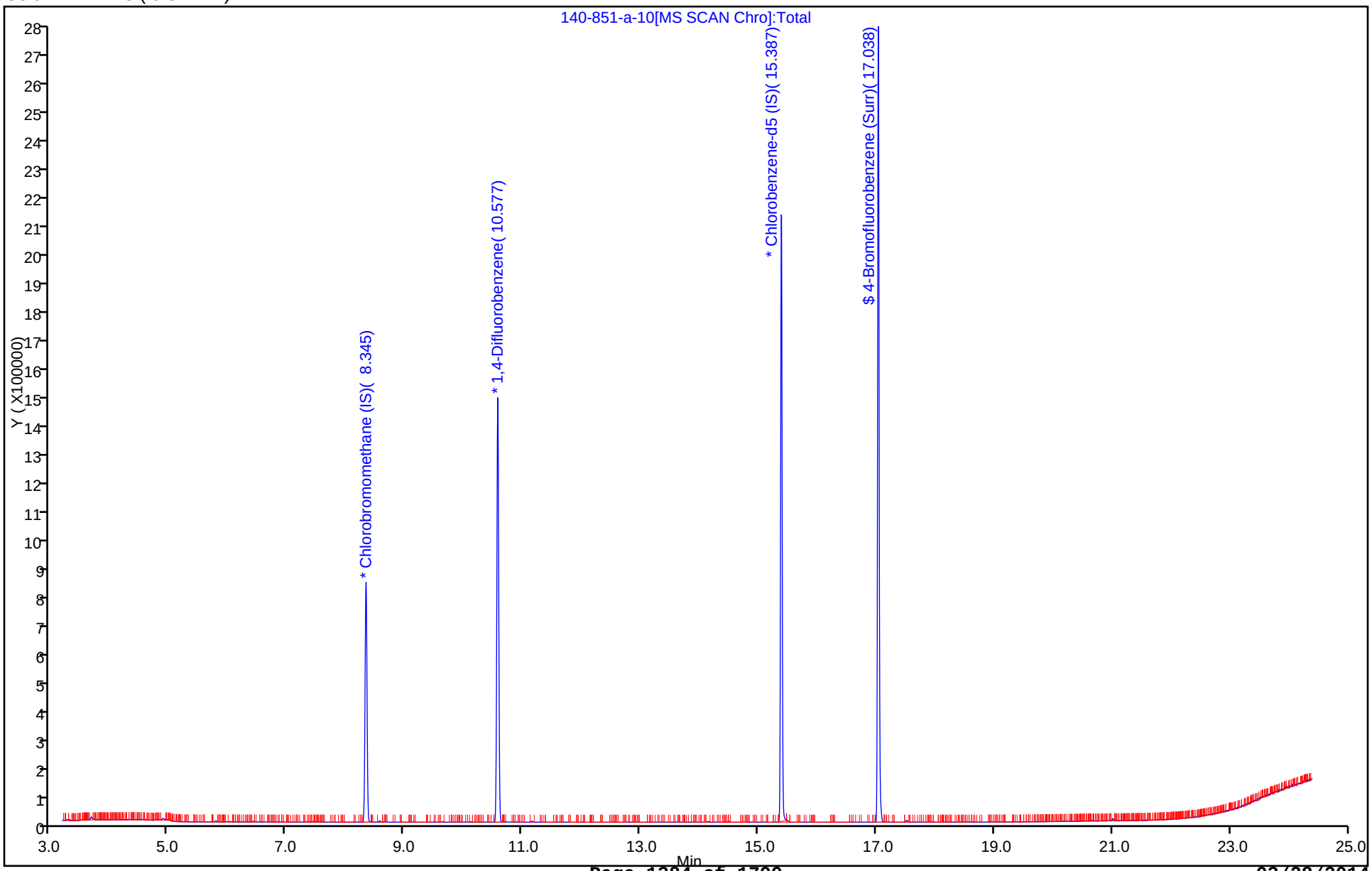
Report Date: 11-Feb-2014 07:20:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-10.D

Injection Date:	10-Feb-2014 19:47:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-10	Lab Sample ID:	140-851-10	Worklist Smp#:	13
Client ID:	10065				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10168 | Lab Sample ID: 140-851-11

Matrix: Air | Lab File ID: 140-851-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10168 | Lab Sample ID: 140-851-11

Matrix: Air | Lab File ID: 140-851-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10168 | Lab Sample ID: 140-851-11

Matrix: Air | Lab File ID: 140-851-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10168 Lab Sample ID: 140-851-11

Matrix: Air Lab File ID: 140-851-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 20:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-11.D
Lims ID: 140-851-A-11 Lab Sample ID: 140-851-11
Client ID: 10168
Sample Type: Client
Inject. Date: 10-Feb-2014 20:33:30 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10168
Misc. Info.: E021014,TO155,,140-0000422-014
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:20:24 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:20:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	238841	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1147582	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	975671	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	858363	4.02	

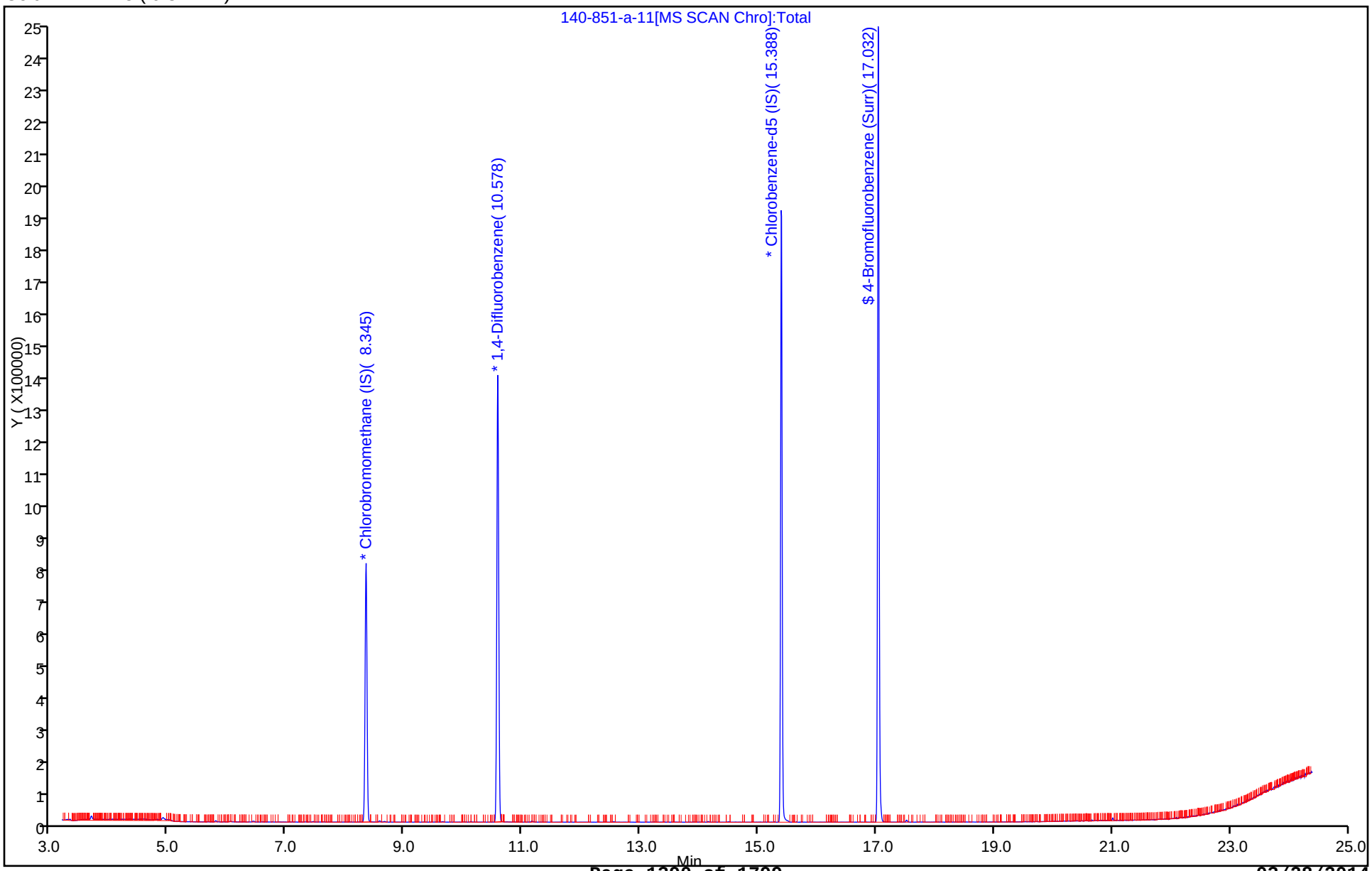
Report Date: 11-Feb-2014 07:20:25 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-11.D

Injection Date:	10-Feb-2014 20:33:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-11	Lab Sample ID:	140-851-11	Worklist Smp#:	14
Client ID:	10168				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10511 | Lab Sample ID: 140-851-12

Matrix: Air | Lab File ID: 140-851-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10511 | Lab Sample ID: 140-851-12

Matrix: Air | Lab File ID: 140-851-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10511 | Lab Sample ID: 140-851-12

Matrix: Air | Lab File ID: 140-851-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10511 Lab Sample ID: 140-851-12

Matrix: Air Lab File ID: 140-851-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-12.D
Lims ID: 140-851-A-12 Lab Sample ID: 140-851-12
Client ID: 10511
Sample Type: Client
Inject. Date: 10-Feb-2014 21:18:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10511
Misc. Info.: E021014,TO155,,140-0000422-015
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:20:43 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:20:43

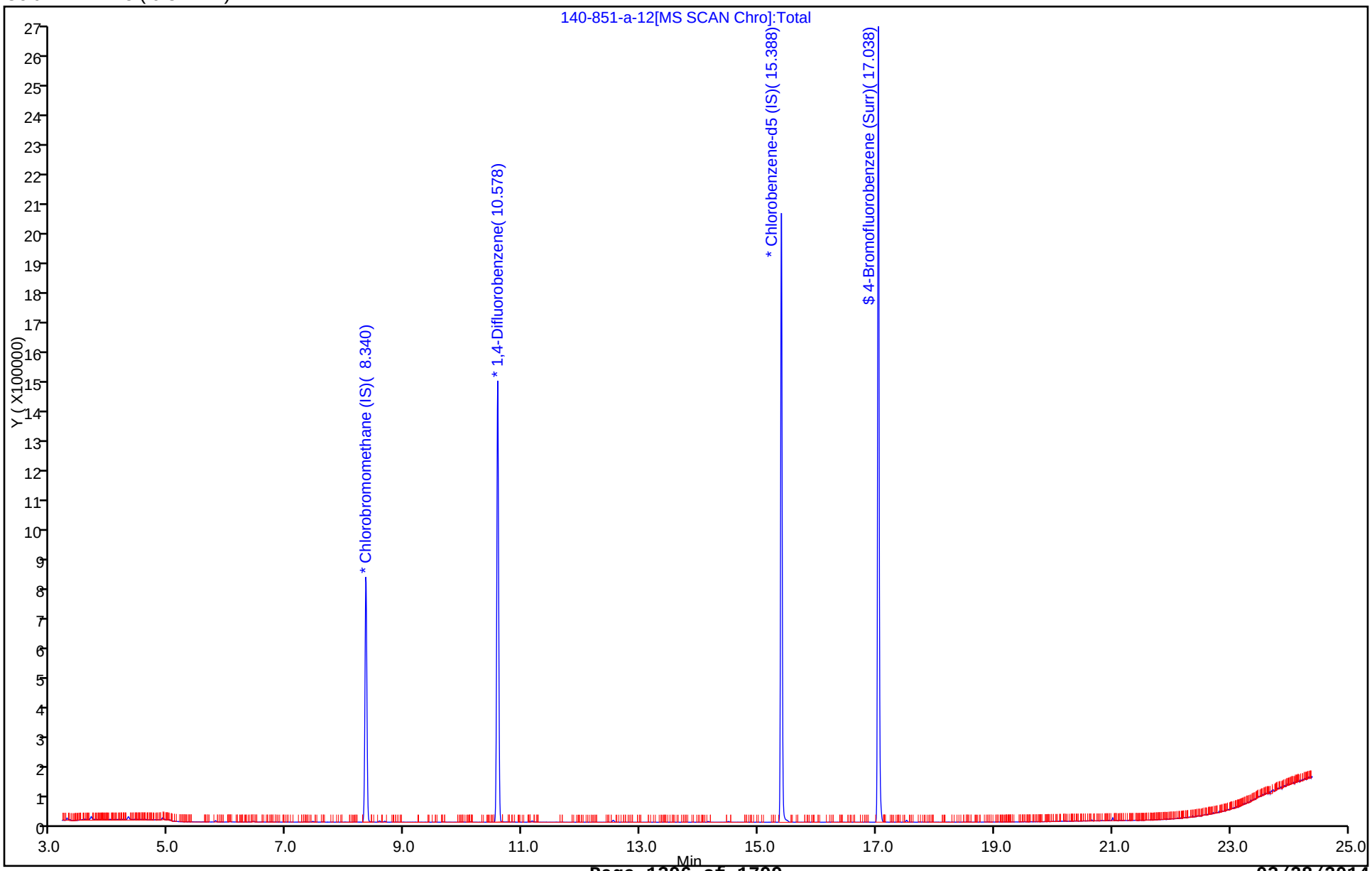
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	245626	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1225317	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1078582	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	941746	3.99	
62 4-Methyl-2-pentanone (MIBK)	43	12.541	12.524	0.017	79	4412	0.0304	

Report Date: 11-Feb-2014 07:20:44 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-12.D				
Injection Date:	10-Feb-2014 21:18:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-12	Lab Sample ID:	140-851-12	Worklist Smp#:	15
Client ID:	10511				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09821 | Lab Sample ID: 140-851-13

Matrix: Air | Lab File ID: 140-851-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09821 | Lab Sample ID: 140-851-13

Matrix: Air | Lab File ID: 140-851-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 09821 | Lab Sample ID: 140-851-13

Matrix: Air | Lab File ID: 140-851-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 09821 Lab Sample ID: 140-851-13

Matrix: Air Lab File ID: 140-851-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-13.D
Lims ID: 140-851-A-13 Lab Sample ID: 140-851-13
Client ID: 09821
Sample Type: Client
Inject. Date: 10-Feb-2014 22:03:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09821
Misc. Info.: E021014,TO155,,140-0000422-016
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:21:01 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:21:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	243994	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1235088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1080230	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	960519	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	7073	0.0483	

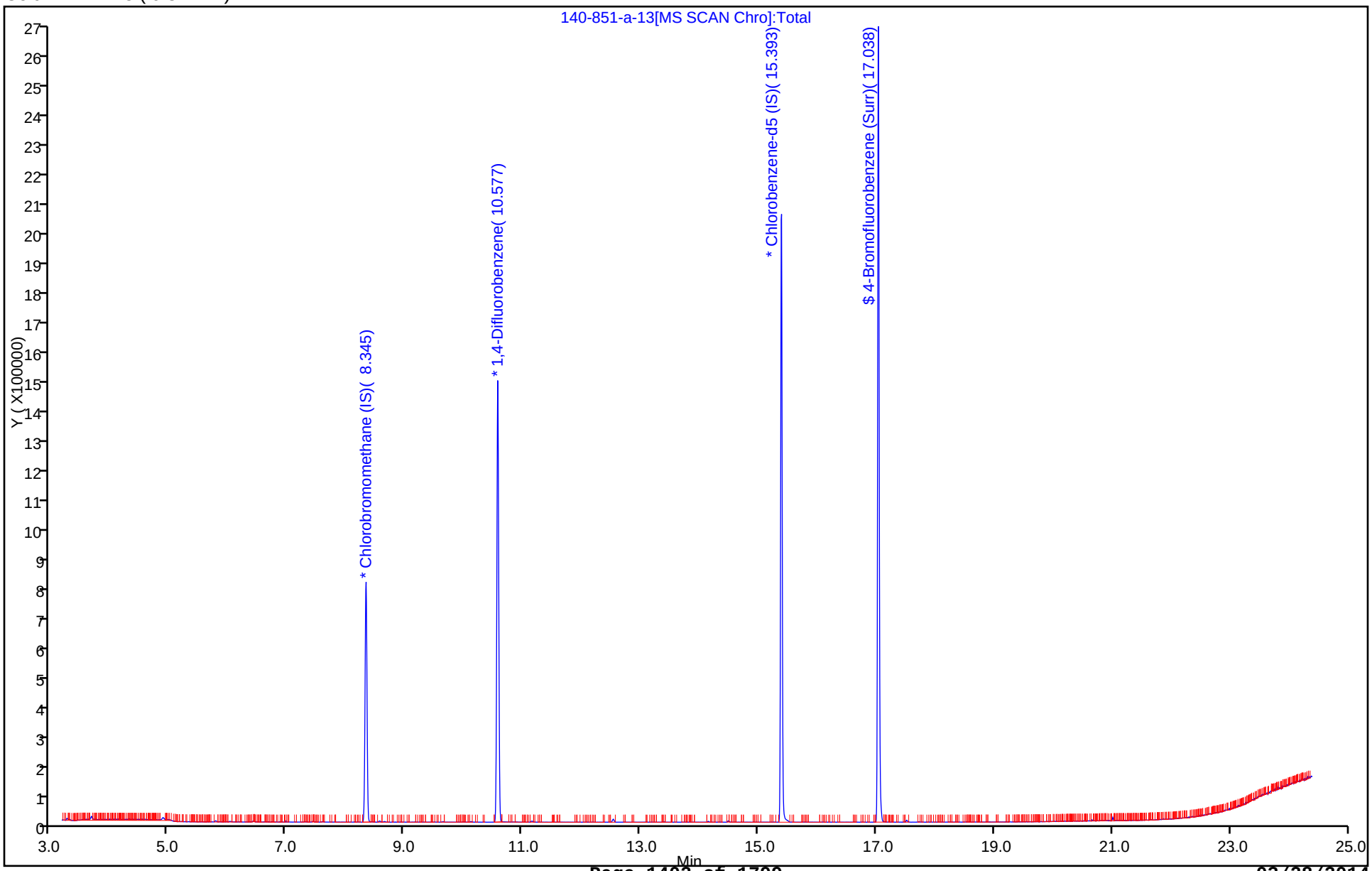
Report Date: 11-Feb-2014 07:21:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-13.D

Injection Date:	10-Feb-2014 22:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-13	Lab Sample ID:	140-851-13	Worklist Smp#:	16
Client ID:	09821				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10572 | Lab Sample ID: 140-851-14

Matrix: Air | Lab File ID: 140-851-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10572 | Lab Sample ID: 140-851-14

Matrix: Air | Lab File ID: 140-851-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-851-1

SDG No.:

Client Sample ID: 10572 | Lab Sample ID: 140-851-14

Matrix: Air | Lab File ID: 140-851-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/10/2014 22:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 820 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1

SDG No.:

Client Sample ID: 10572 Lab Sample ID: 140-851-14

Matrix: Air Lab File ID: 140-851-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-14.D
Lims ID: 140-851-A-14 Lab Sample ID: 140-851-14
Client ID: 10572
Sample Type: Client
Inject. Date: 10-Feb-2014 22:48:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10572
Misc. Info.: E021014,TO155,,140-0000422-017
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 11-Feb-2014 07:21:25 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:21:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	234073	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1113049	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	988515	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	862264	3.98	

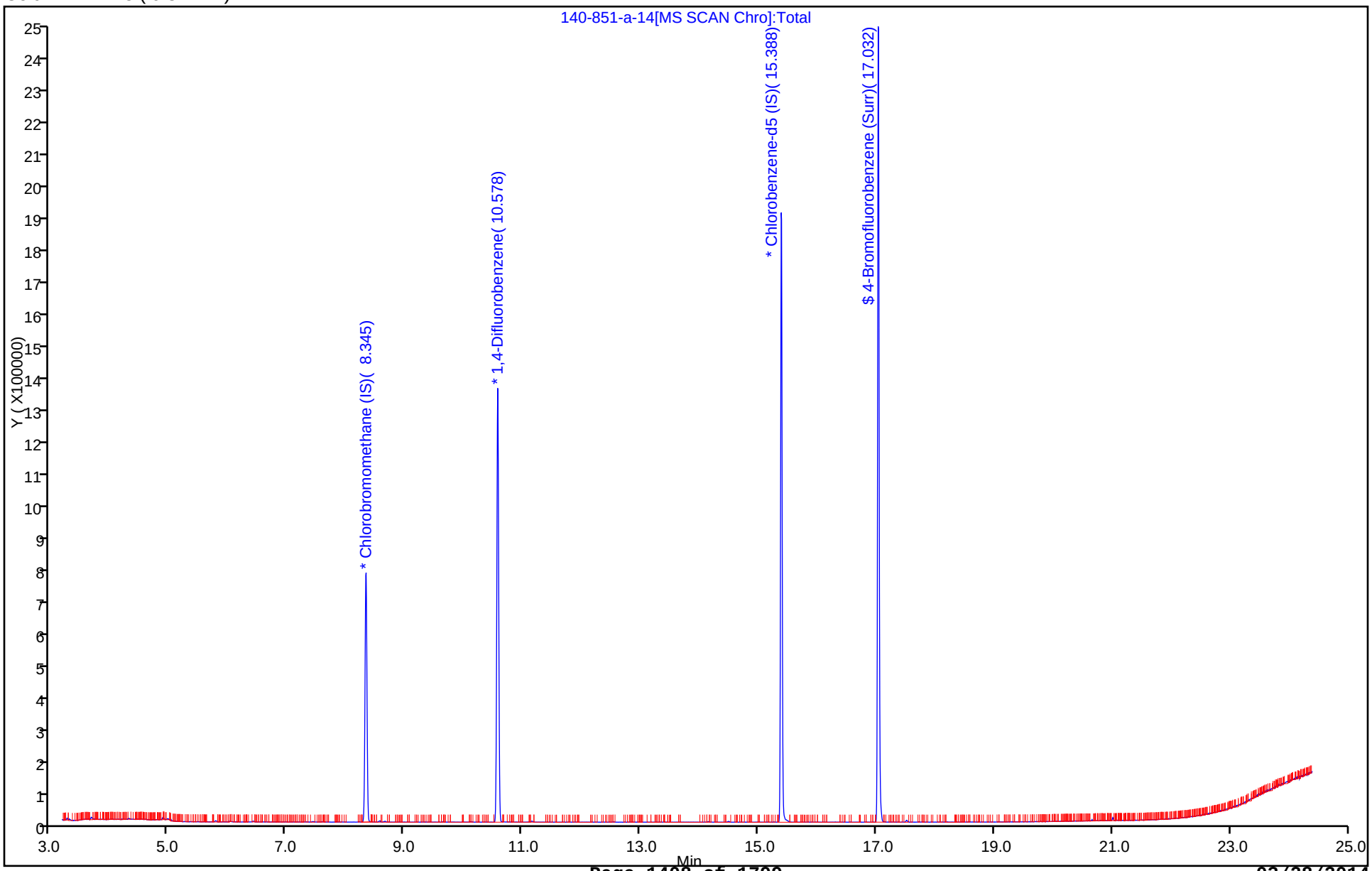
Report Date: 11-Feb-2014 07:21:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-14.D

Injection Date:	10-Feb-2014 22:48:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-851-A-14	Lab Sample ID:	140-851-14	Worklist Smp#:	17
Client ID:	10572				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-867-1

SDG No.:

Client Sample ID: 09607 | Lab Sample ID: 140-867-1

Matrix: Air | Lab File ID: 140-867-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/12/2014 08:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/14/2014 12:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 843 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-867-1

SDG No.:

Client Sample ID: 09607 | Lab Sample ID: 140-867-1

Matrix: Air | Lab File ID: 140-867-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/12/2014 08:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/14/2014 12:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 843 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-867-1

SDG No.:

Client Sample ID: 09607 | Lab Sample ID: 140-867-1

Matrix: Air | Lab File ID: 140-867-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/12/2014 08:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/14/2014 12:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 843 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-867-1

SDG No.:

Client Sample ID: 09607 Lab Sample ID: 140-867-1

Matrix: Air Lab File ID: 140-867-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:10

Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 12:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-867-a-1.D
Lims ID: 140-867-A-1 Lab Sample ID: 140-867-1
Client ID: 09607
Sample Type: Client
Inject. Date: 14-Feb-2014 12:34:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09607
Misc. Info.: E021414,TO155,,140-0000436-004
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140212-436.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Feb-2014 13:38:18 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: tajh Date: 14-Feb-2014 13:38:18

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	264303	4.00	
*	2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1338617	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1155742	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	86	981450	3.88	
	7 Propene	41	3.314	3.314	0.0	88	2154	0.0324	
	9 Chloromethane	52	3.540	3.535	0.005	64	1704	0.0730	
	62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	85	8066	0.0508	

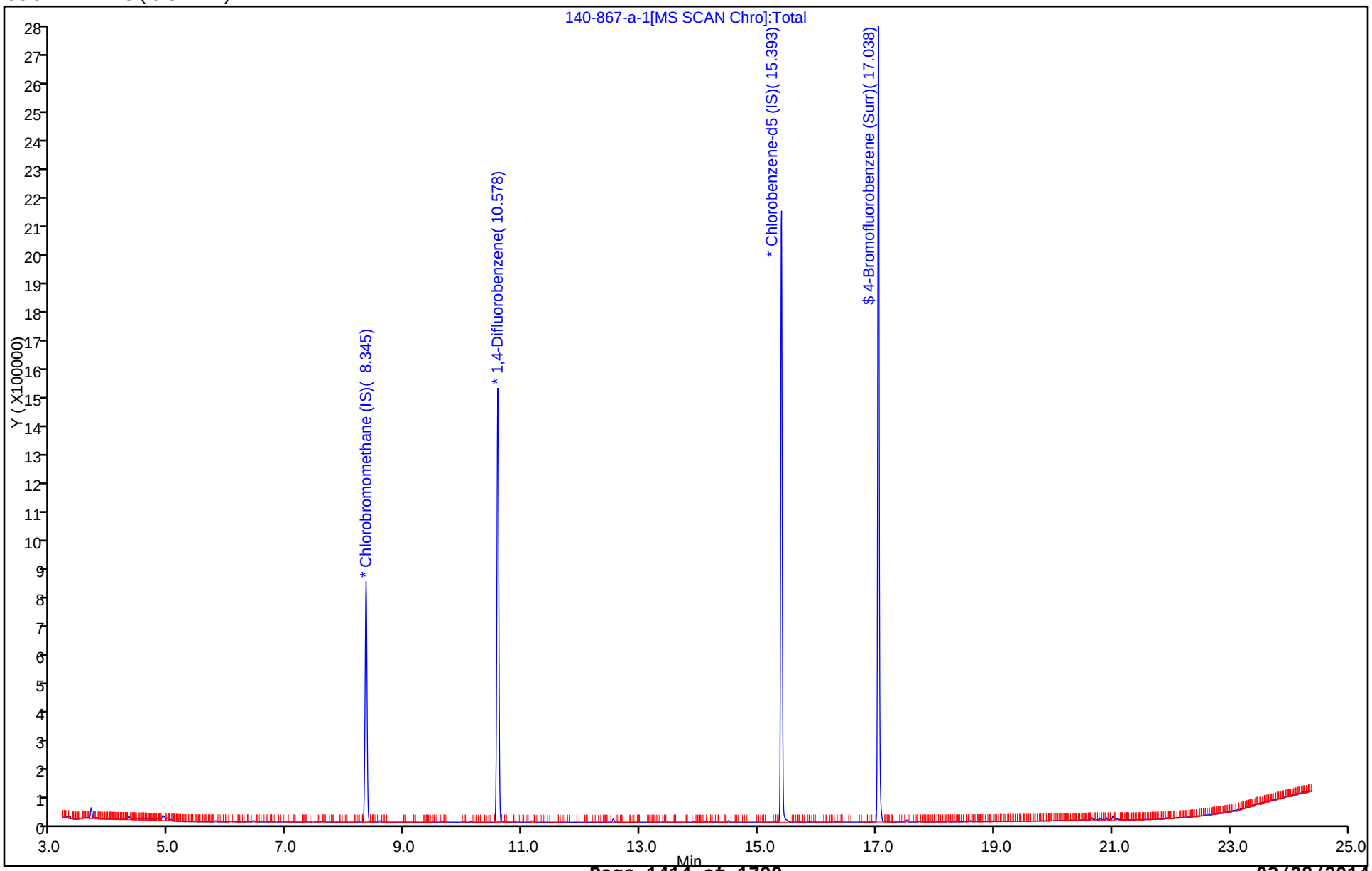
Report Date: 14-Feb-2014 13:38:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-867-a-1.D

Injection Date:	14-Feb-2014 12:34:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-867-A-1	Lab Sample ID:	140-867-1	Worklist Smp#:	4
Client ID:	09607				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 | Lab Sample ID: 140-874-1

Matrix: Air | Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	0.087		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 | Lab Sample ID: 140-874-1

Matrix: Air | Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	0.31		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	1.3		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 Lab Sample ID: 140-874-1

Matrix: Air Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09991 Lab Sample ID: 140-874-1

Matrix: Air Lab File ID: 140-874-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D
Lims ID: 140-874-A-1 Lab Sample ID: 140-874-1
Client ID: 09991
Sample Type: Client
Inject. Date: 16-Feb-2014 18:07:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09991
Misc. Info.: E021614,TO155,,140-0000438-008
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:38:49 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:38:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	239026	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1141900	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	998911	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	856309	3.91	
6 Chlorodifluoromethane	67	3.298	3.303	-0.005	75	1641	0.0490	
7 Propene	41	3.319	3.314	0.005	51	6268	0.1042	
14 Butane	43	3.772	3.778	-0.006	90	35087	0.3070	
17 Ethanol	31	4.301	4.317	-0.016	98	30227	1.26	
19 2-Methylbutane	43	4.538	4.543	-0.005	79	4493	0.0537	
21 Trichlorofluoromethane	101	4.748	4.754	-0.006	90	14496	0.0547	
23 Acetone	58	4.878	4.883	-0.005	93	27782	0.7674	
25 Pentane	72	4.959	4.964	-0.005	91	2095	0.1335	
24 Isopropyl alcohol	45	4.969	4.969	0.0	15	4534	0.0486	
31 Methylene Chloride	84	5.784	5.794	-0.010	83	12911	0.1890	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	93	3361	0.0859	
40 Hexane	56	7.596	7.590	0.006	46	1527	0.0240	
44 Tetrahydrofuran	42	8.777	8.760	0.016	75	5902	0.0963	
48 Benzene	78	9.990	10.000	-0.010	60	6452	0.0281	
59 1,4-Dioxane	88	11.586	11.570	0.016	60	2640	0.0866	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	84	9592	0.0709	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	88	17013	0.0868	

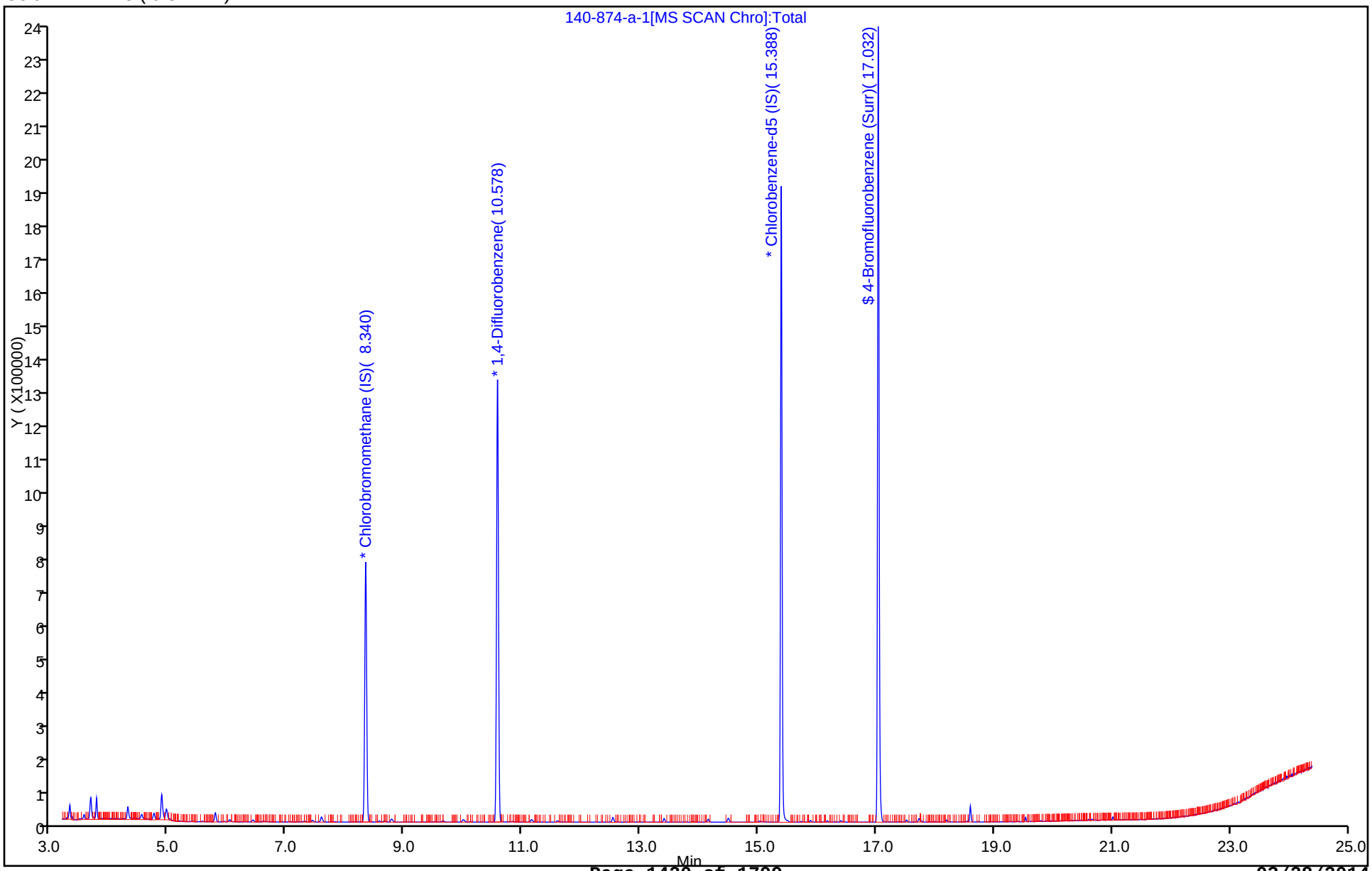
Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1	Worklist Smp#:	8
Client ID:	09991				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



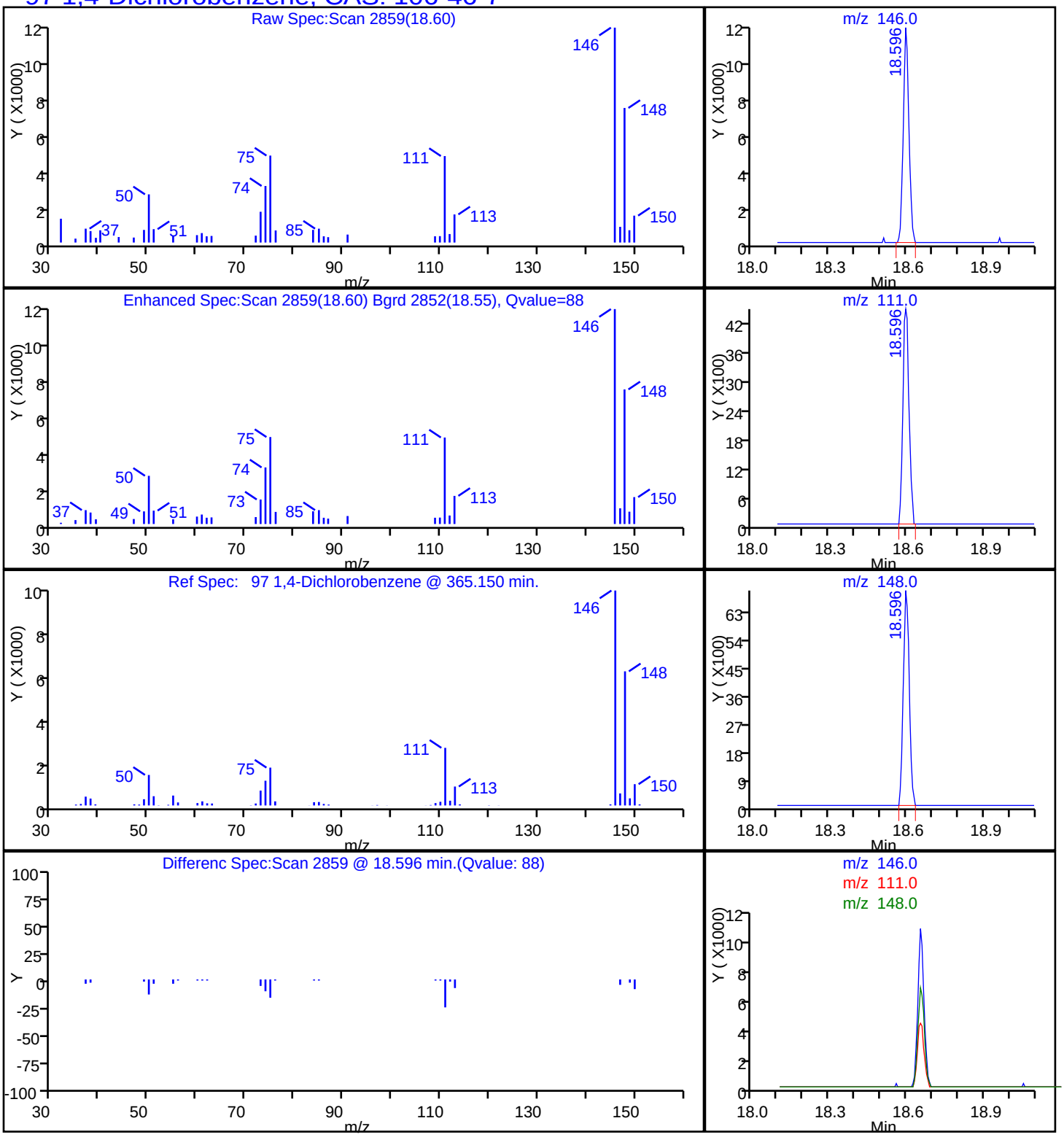
Report Date: 17-Feb-2014 07:38:51 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7



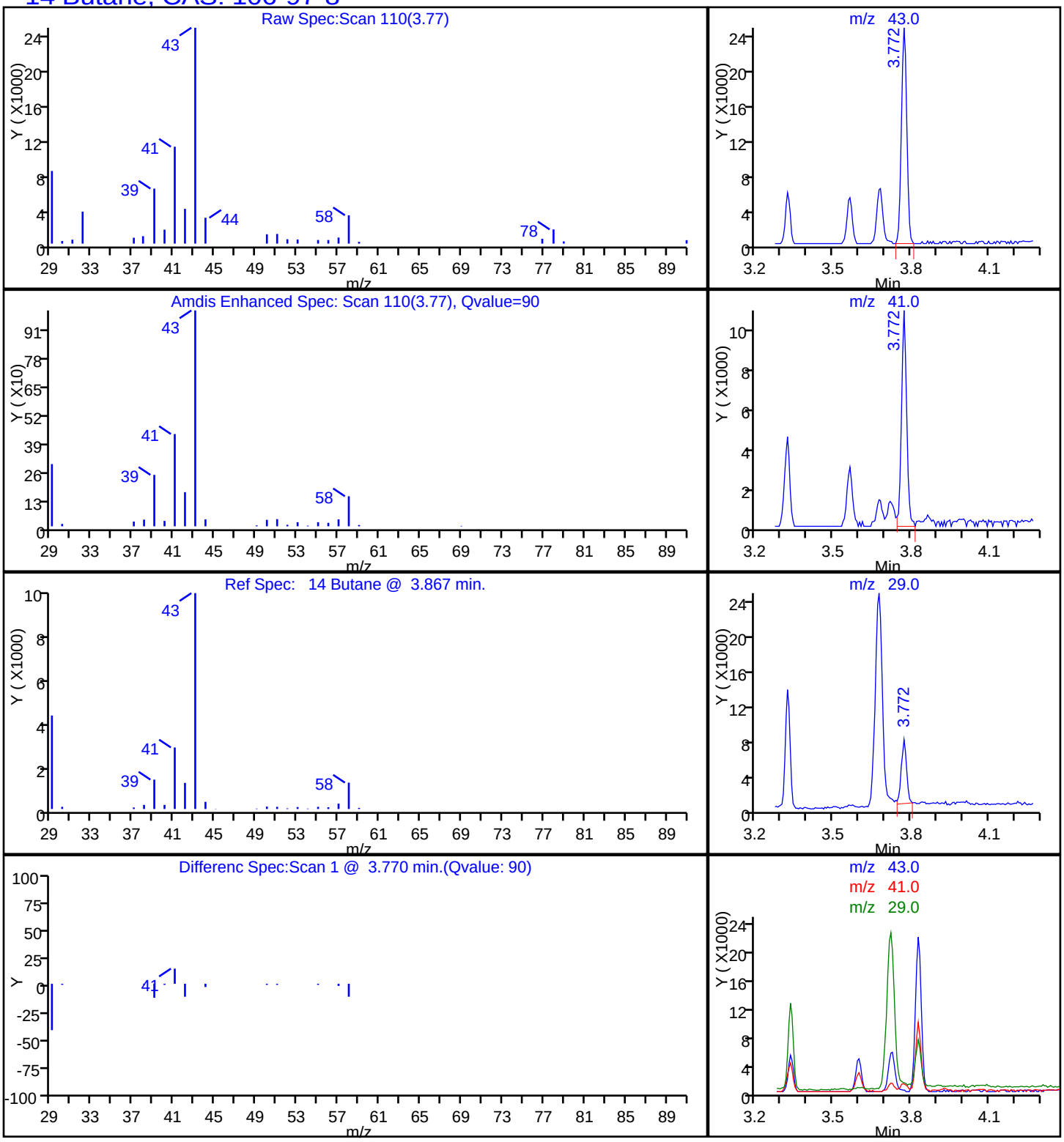
Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

14 Butane, CAS: 106-97-8

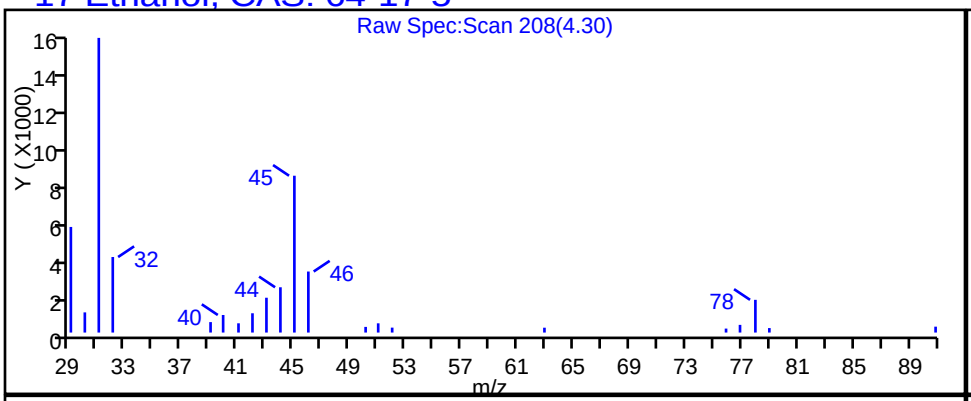


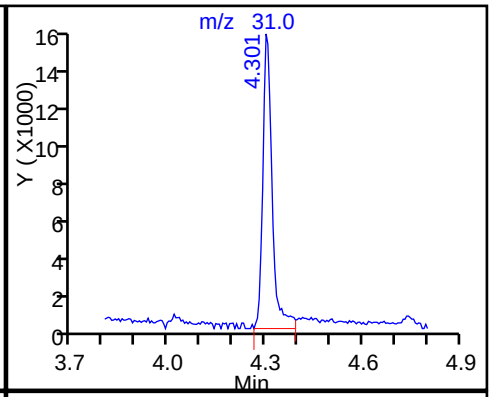
Report Date: 17-Feb-2014 07:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

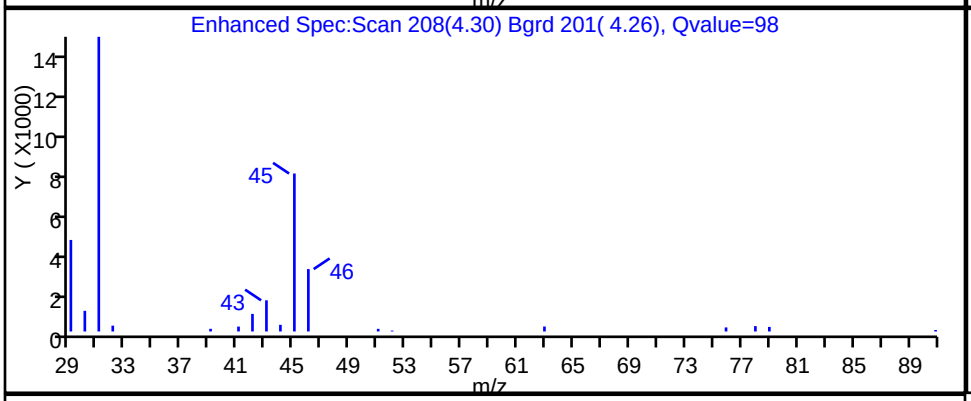
TestAmerica Knoxville

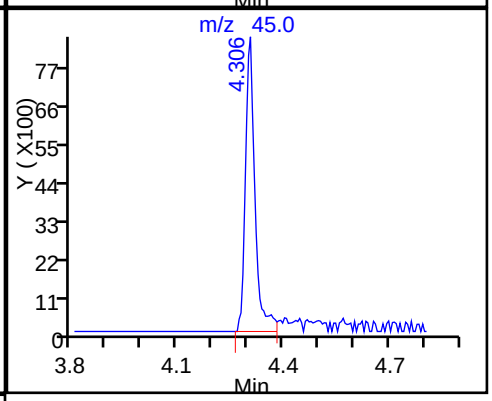
Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D				
Injection Date:	16-Feb-2014 18:07:30	Instrument ID:	ME		
Lims ID:	140-874-A-1	Lab Sample ID:	140-874-1		
Client ID:	09991				
Operator ID:	403648	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

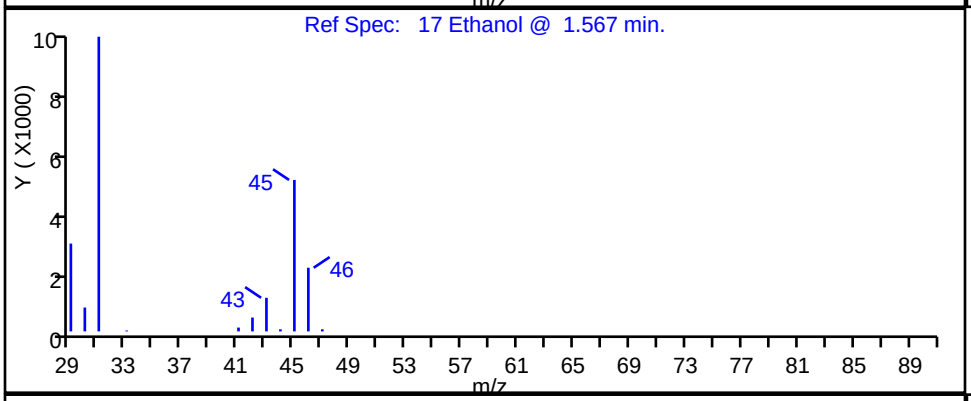
17 Ethanol, CAS: 64-17-5

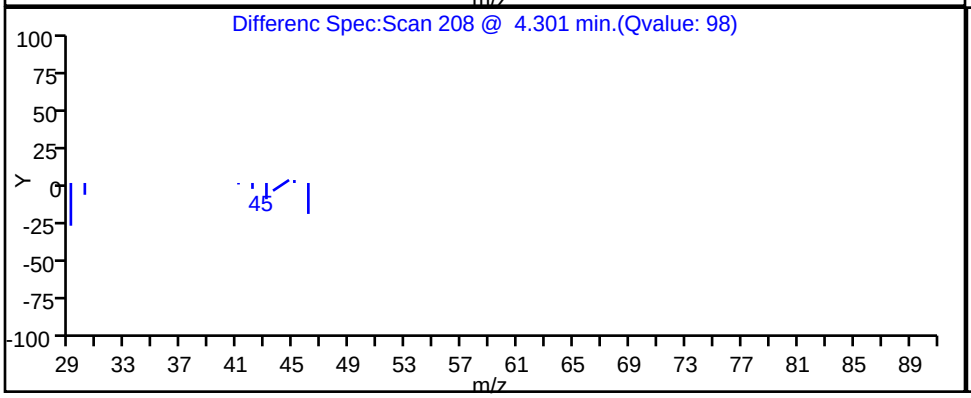


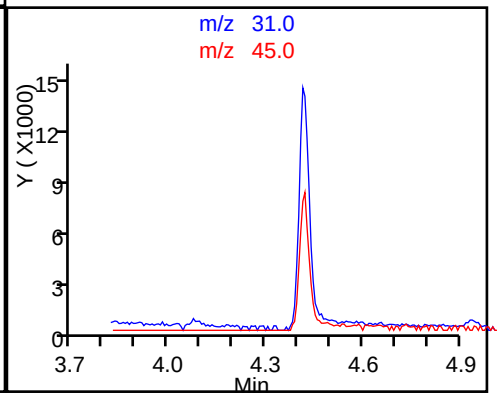












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 | Lab Sample ID: 140-874-2

Matrix: Air | Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10885 Lab Sample ID: 140-874-2

Matrix: Air Lab File ID: 140-874-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D
Lims ID: 140-874-A-2 Lab Sample ID: 140-874-2
Client ID: 10885
Sample Type: Client
Inject. Date: 16-Feb-2014 18:52:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10885
Misc. Info.: E021614,TO155,,140-0000438-009
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:40:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:40:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	231329	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1148229	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	91	1038120	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	907537	3.99	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	64	2518	0.0185	

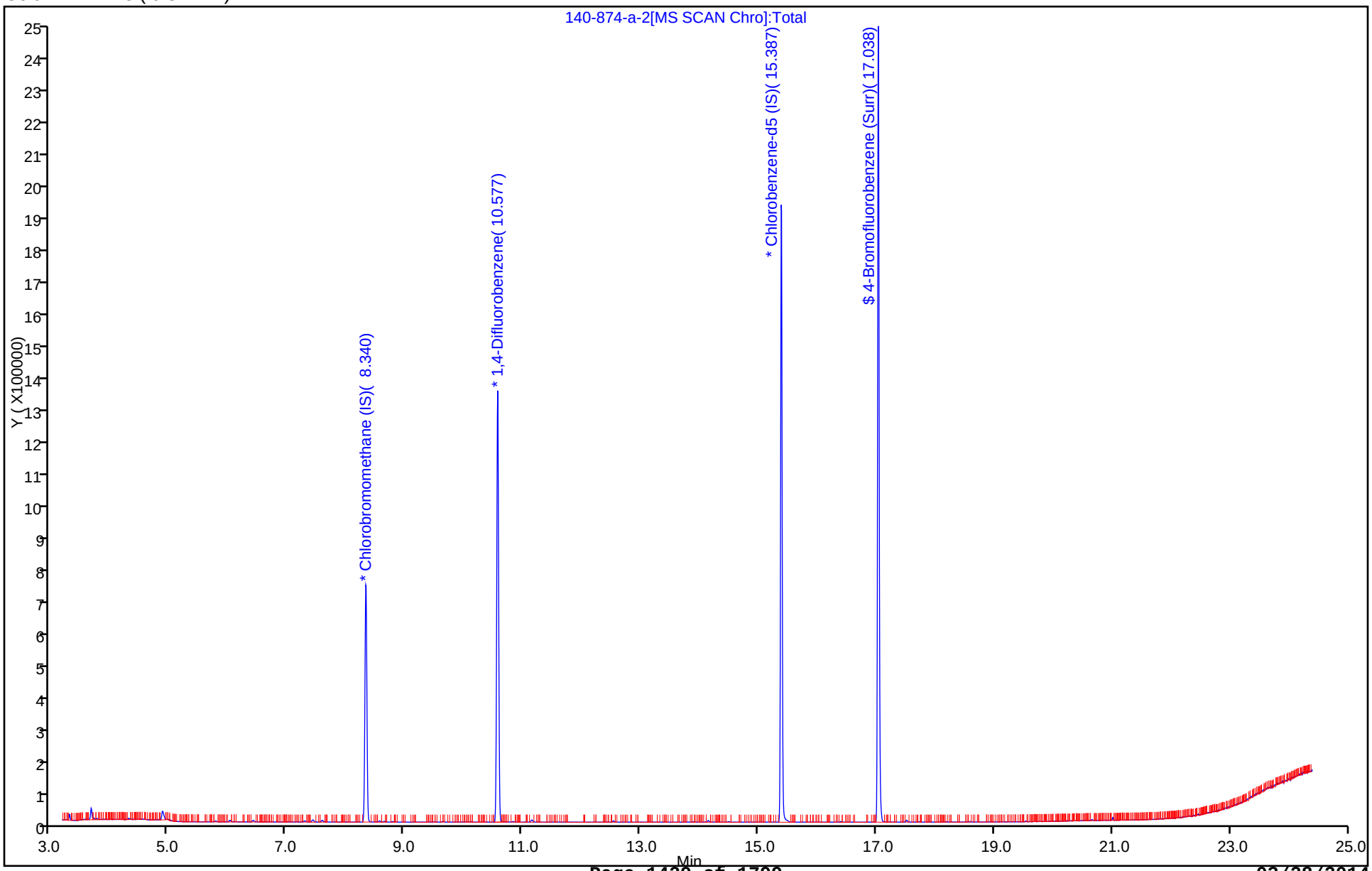
Report Date: 17-Feb-2014 07:40:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D

Injection Date:	16-Feb-2014 18:52:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-2	Lab Sample ID:	140-874-2	Worklist Smp#:	9
Client ID:	10885				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 | Lab Sample ID: 140-874-4

Matrix: Air | Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 | Lab Sample ID: 140-874-4

Matrix: Air | Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 | Lab Sample ID: 140-874-4

Matrix: Air | Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09670 Lab Sample ID: 140-874-4

Matrix: Air Lab File ID: 140-874-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D
Lims ID: 140-874-A-4 Lab Sample ID: 140-874-4
Client ID: 09670
Sample Type: Client
Inject. Date: 16-Feb-2014 19:37:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09670
Misc. Info.: E021614,TO155,,140-0000438-010
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:41:22 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:41:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	209512	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1006358	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	915676	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	796227	3.97	
	7 Propene	41	3.320	3.314	0.006	78	2188	0.0415	
	14 Butane	43	3.778	3.778	0.0	75	5286	0.0528	
	44 Tetrahydrofuran	42	8.793	8.760	0.033	72	1511	0.0281	
	73 Tetrachloroethene	129	14.552	14.557	-0.005	75	2904	0.0278	

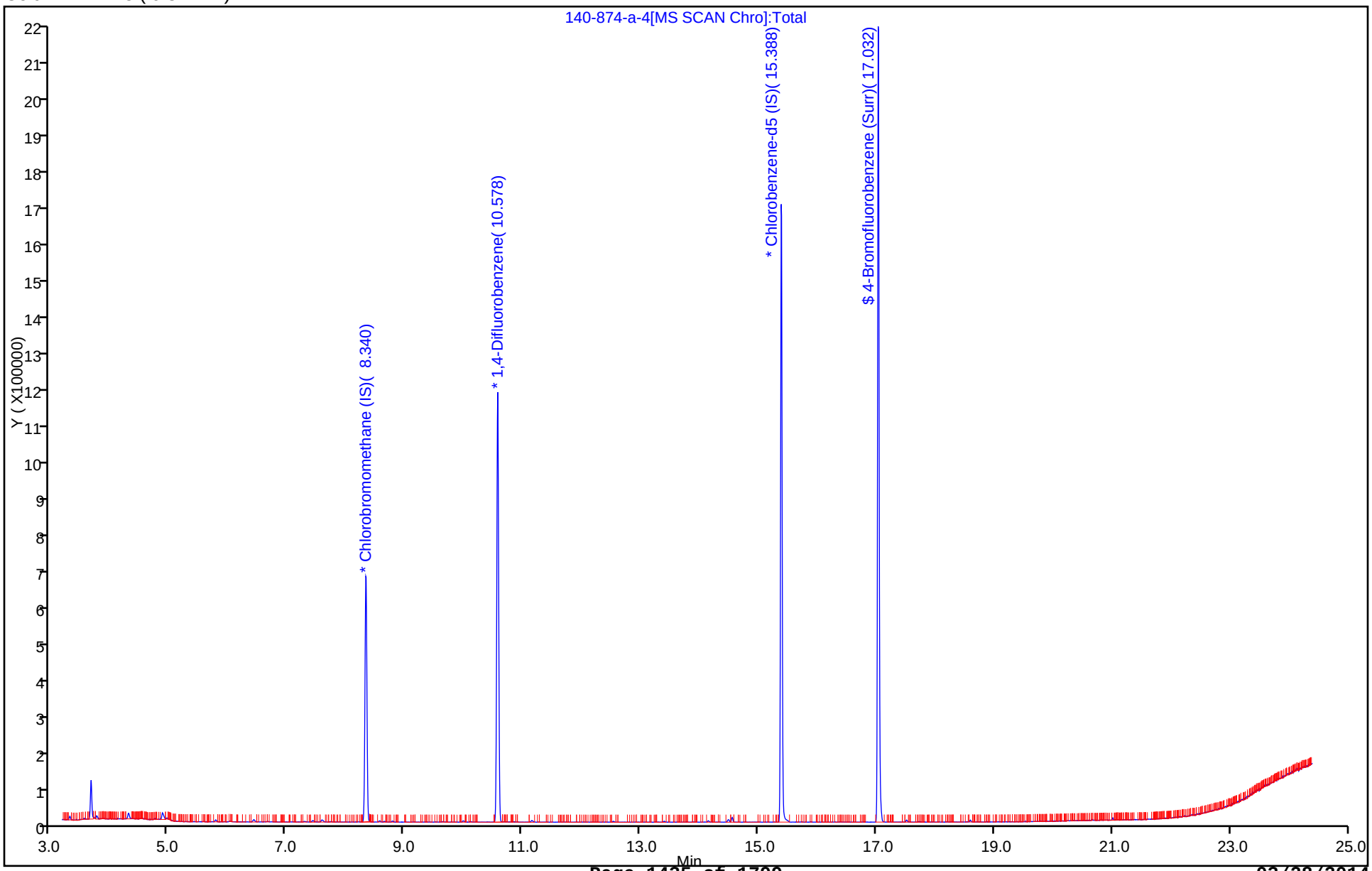
Report Date: 17-Feb-2014 07:41:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D

Injection Date:	16-Feb-2014 19:37:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-4	Lab Sample ID:	140-874-4	Worklist Smp#:	10
Client ID:	09670				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-874-5

Matrix: Air | Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-874-5

Matrix: Air | Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	0.14		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	0.95		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 | Lab Sample ID: 140-874-5

Matrix: Air | Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10206 Lab Sample ID: 140-874-5

Matrix: Air Lab File ID: 140-874-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D
Lims ID: 140-874-A-5 Lab Sample ID: 140-874-5
Client ID: 10206
Sample Type: Client
Inject. Date: 16-Feb-2014 20:21:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10206
Misc. Info.: E021614,TO155,,140-0000438-011
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:42:19 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:42:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	236183	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1188120	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1035432	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	888915	3.92	
9 Chloromethane	52	3.530	3.535	-0.005	96	3384	0.1623	
14 Butane	43	3.681	3.778	-0.097	5	7281	0.0645	
17 Ethanol	31	4.306	4.317	-0.011	98	22441	0.9500	
44 Tetrahydrofuran	42	8.793	8.760	0.033	71	2301	0.0380	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	93	19550	0.0699	
82 o-Xylene	91	16.418	16.412	0.006	83	12072	0.0399	
89 1,3,5-Trimethylbenzene	120	17.782	17.782	0.0	77	4836	0.0279	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	97	43693	0.1375	

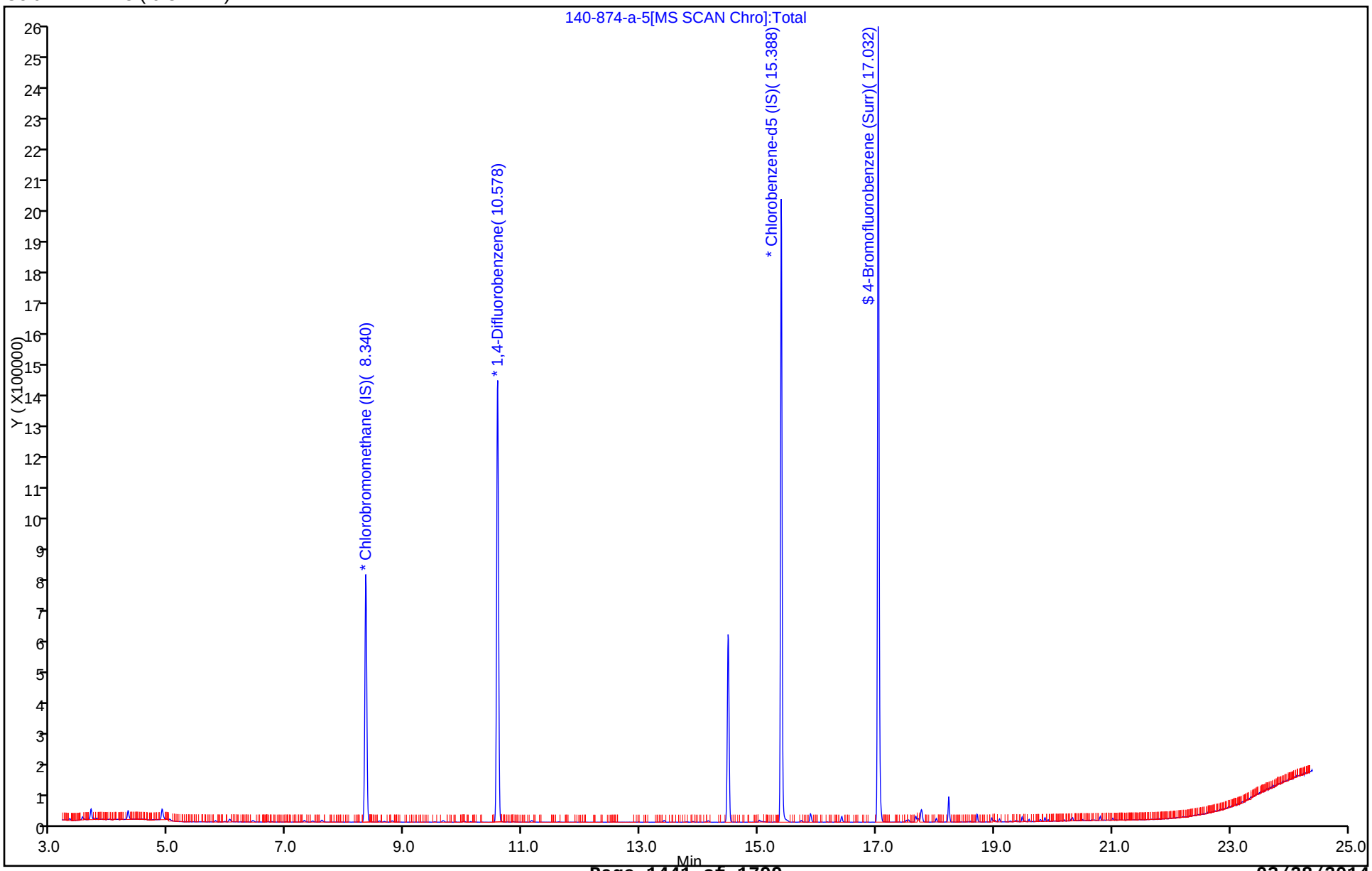
Report Date: 17-Feb-2014 07:42:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D

Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5	Worklist Smp#:	11
Client ID:	10206				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

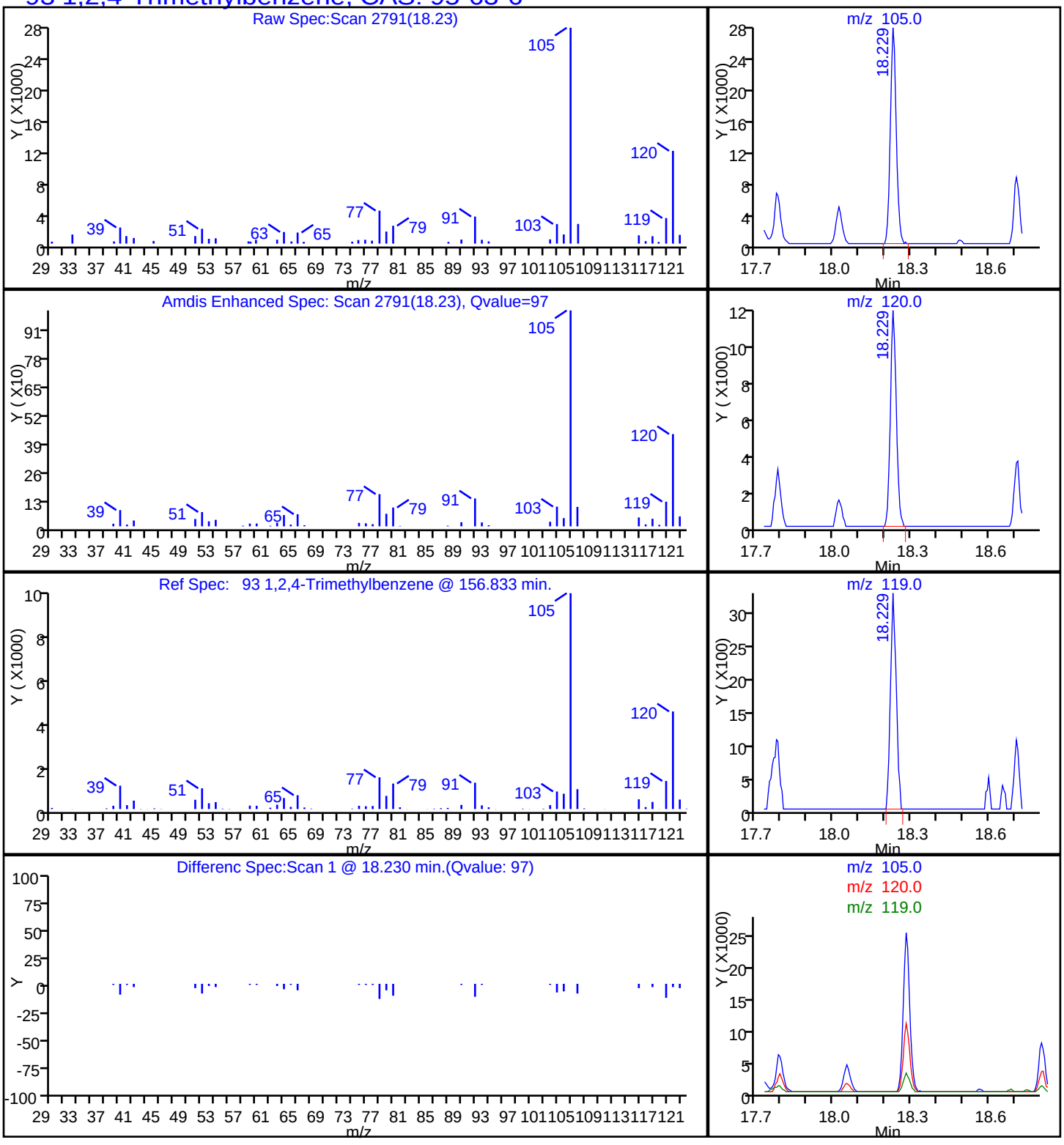


Report Date: 17-Feb-2014 07:42:21 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D				
Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME		
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5		
Client ID:	10206				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

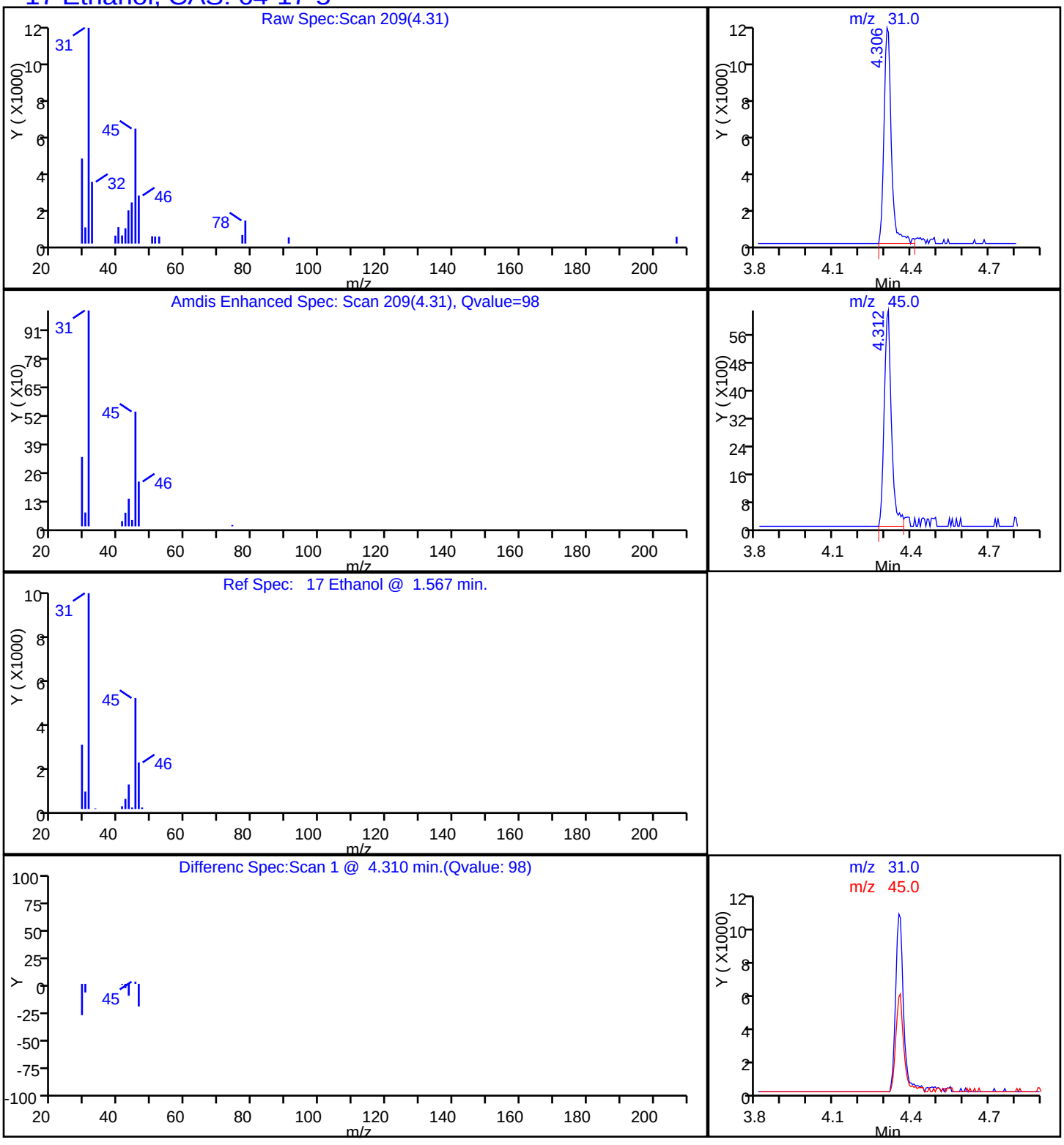


Report Date: 17-Feb-2014 07:42:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D				
Injection Date:	16-Feb-2014 20:21:30	Instrument ID:	ME		
Lims ID:	140-874-A-5	Lab Sample ID:	140-874-5		
Client ID:	10206				
Operator ID:	403648	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	17		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 | Lab Sample ID: 140-874-6

Matrix: Air | Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10799 Lab Sample ID: 140-874-6

Matrix: Air Lab File ID: 140-874-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D
Lims ID: 140-874-A-6 Lab Sample ID: 140-874-6
Client ID: 10799
Sample Type: Client
Inject. Date: 16-Feb-2014 21:06:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10799
Misc. Info.: E021614,TO155,,140-0000438-012
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:51:30 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:51:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	235626	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1179987	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1022196	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.033	17.032	0.001	85	883790	3.95	
7 Propene	41	3.314	3.314	0.0	87	2152	0.0363	
17 Ethanol	31	4.312	4.317	-0.005	98	394242	16.7	
23 Acetone	58	4.883	4.883	0.0	100	21754	0.6095	
24 Isopropyl alcohol	45	4.970	4.969	0.001	48	5570	0.0606	
29 2-Methyl-2-propanol	59	5.579	5.552	0.027	66	4571	0.0351	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	4733	0.1227	
44 Tetrahydrofuran	42	8.782	8.760	0.022	75	1876	0.0310	
53 Isooctane	57	10.788	10.793	-0.005	94	49327	0.1346	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	80	7042	0.0504	
69 2-Hexanone	58	13.883	13.878	0.005	75	3370	0.0521	
98 4-Isopropyltoluene	119	18.656	18.655	0.001	68	11191	0.0313	

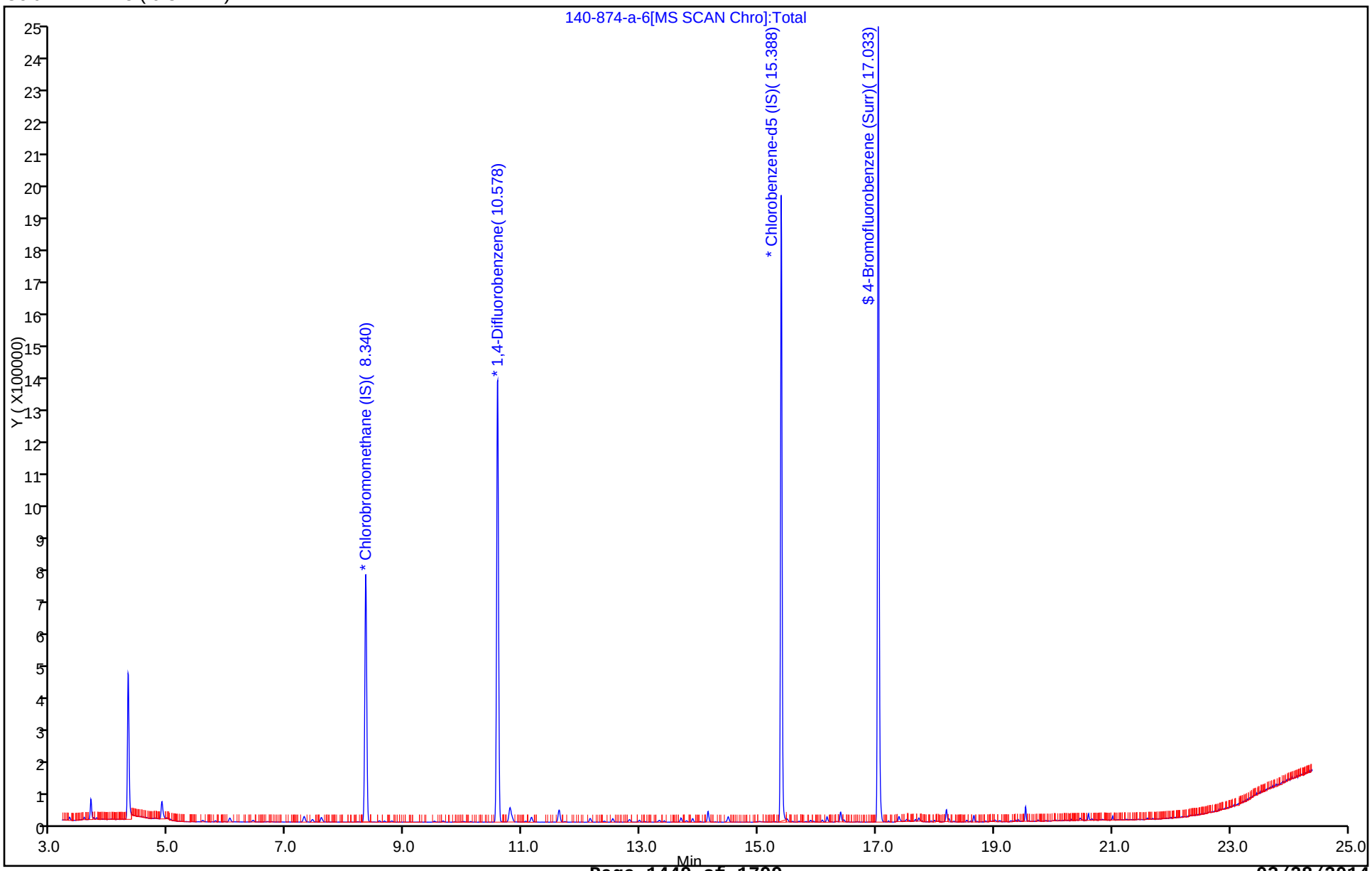
Report Date: 17-Feb-2014 07:51:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D

Injection Date:	16-Feb-2014 21:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-6	Lab Sample ID:	140-874-6	Worklist Smp#:	12
Client ID:	10799				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

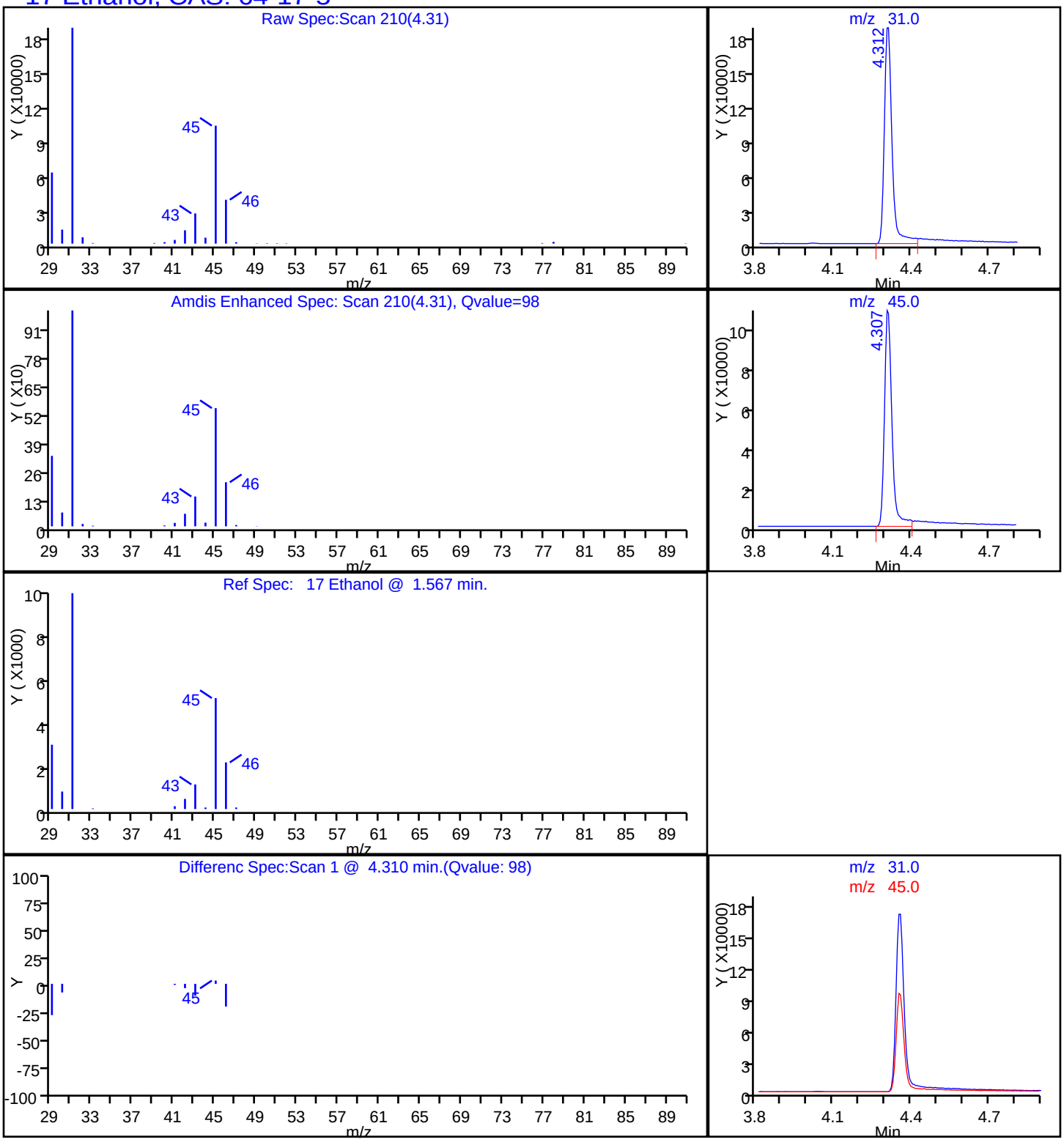


Report Date: 17-Feb-2014 07:51:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D				
Injection Date:	16-Feb-2014 21:06:30	Instrument ID:	ME		
Lims ID:	140-874-A-6	Lab Sample ID:	140-874-6		
Client ID:	10799				
Operator ID:	403648	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 | Lab Sample ID: 140-874-7

Matrix: Air | Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 | Lab Sample ID: 140-874-7

Matrix: Air | Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 Lab Sample ID: 140-874-7

Matrix: Air Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09824 Lab Sample ID: 140-874-7

Matrix: Air Lab File ID: 140-874-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D				
Lims ID:	140-874-A-7	Lab Sample ID:	140-874-7		
Client ID:	09824				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 21:51:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09824				
Misc. Info.:	E021614,TO155,,140-0000438-013				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:52:13	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:52:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	220473	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1003954	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	889483	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	787231	4.04	

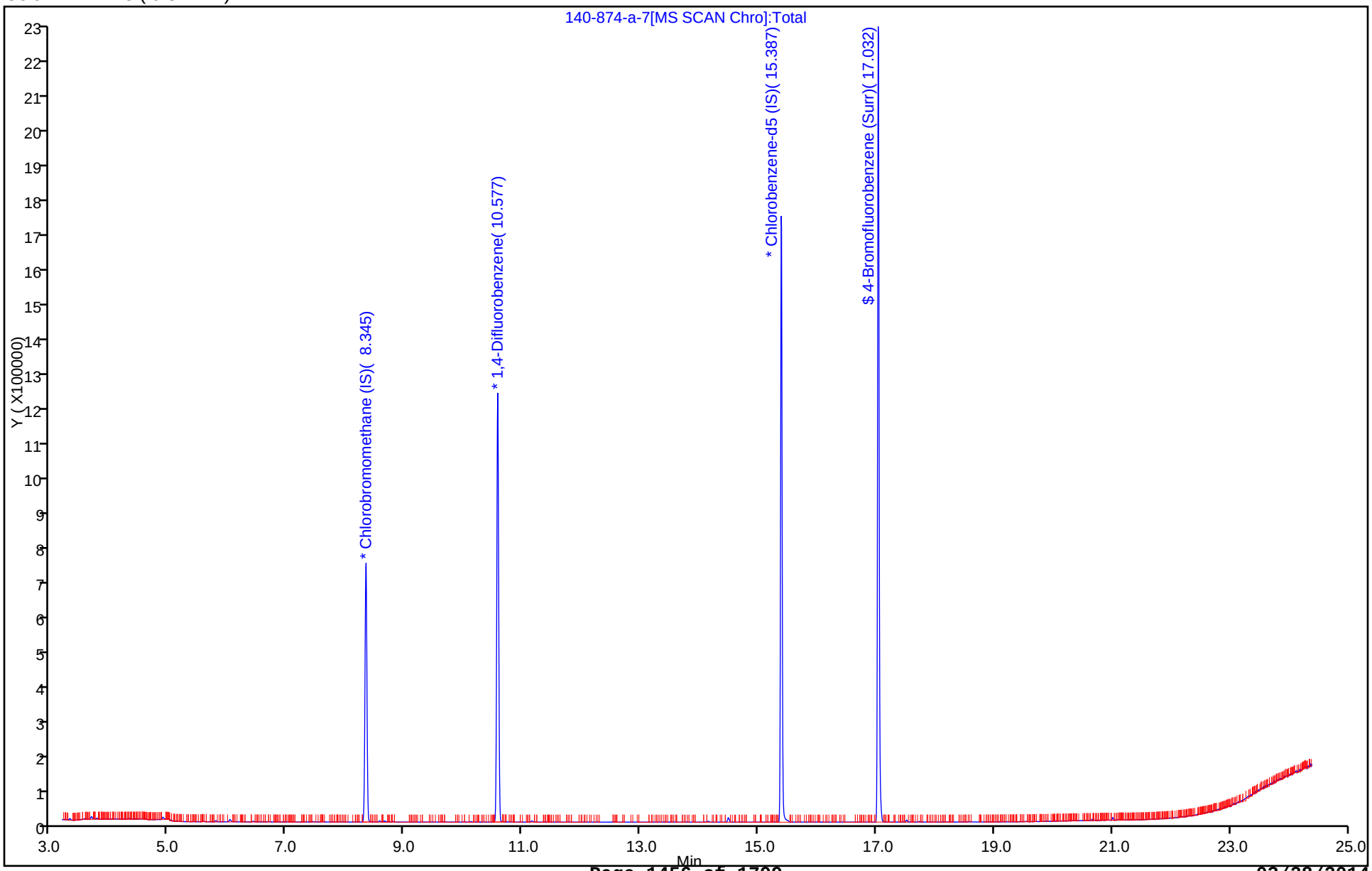
Report Date: 17-Feb-2014 07:52:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D

Injection Date:	16-Feb-2014 21:51:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-7	Lab Sample ID:	140-874-7	Worklist Smp#:	13
Client ID:	09824				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 | Lab Sample ID: 140-874-8

Matrix: Air | Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 | Lab Sample ID: 140-874-8

Matrix: Air | Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 | Lab Sample ID: 140-874-8

Matrix: Air | Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09916 Lab Sample ID: 140-874-8

Matrix: Air Lab File ID: 140-874-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D				
Lims ID:	140-874-A-8	Lab Sample ID:	140-874-8		
Client ID:	09916				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 22:36:30	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09916				
Misc. Info.:	E021614,TO155,,140-0000438-014				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:52:42	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:52:42		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	229007	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1142533	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1009607	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	889551	4.02	
44 Tetrahydrofuran	42	8.793	8.760	0.033	68	2251	0.0383	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	74	4585	0.0339	

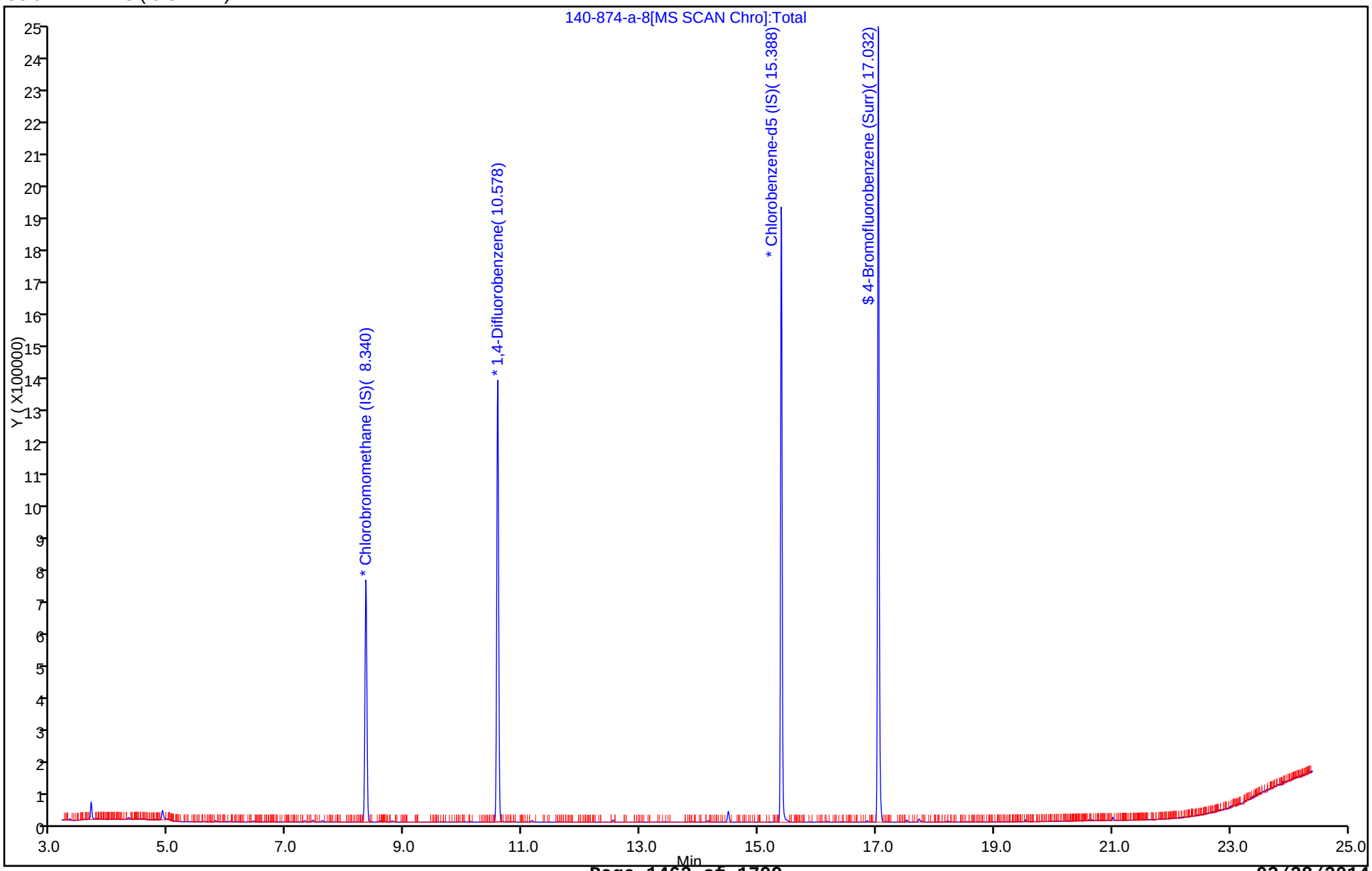
Report Date: 17-Feb-2014 07:52:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D

Injection Date:	16-Feb-2014 22:36:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-8	Lab Sample ID:	140-874-8	Worklist Smp#:	14
Client ID:	09916				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 | Lab Sample ID: 140-874-9

Matrix: Air | Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 | Lab Sample ID: 140-874-9

Matrix: Air | Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 Lab Sample ID: 140-874-9

Matrix: Air Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10815 Lab Sample ID: 140-874-9

Matrix: Air Lab File ID: 140-874-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D
Lims ID: 140-874-A-9 Lab Sample ID: 140-874-9
Client ID: 10815
Sample Type: Client
Inject. Date: 16-Feb-2014 23:21:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10815
Misc. Info.: E021614,TO155,,140-0000438-015
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:53:13 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:53:13

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	211878	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1007012	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	934303	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	812938	3.97	
	7 Propene	41	3.319	3.314	0.005	75	1766	0.0331	
	14 Butane	43	3.772	3.778	-0.006	76	3136	0.0310	

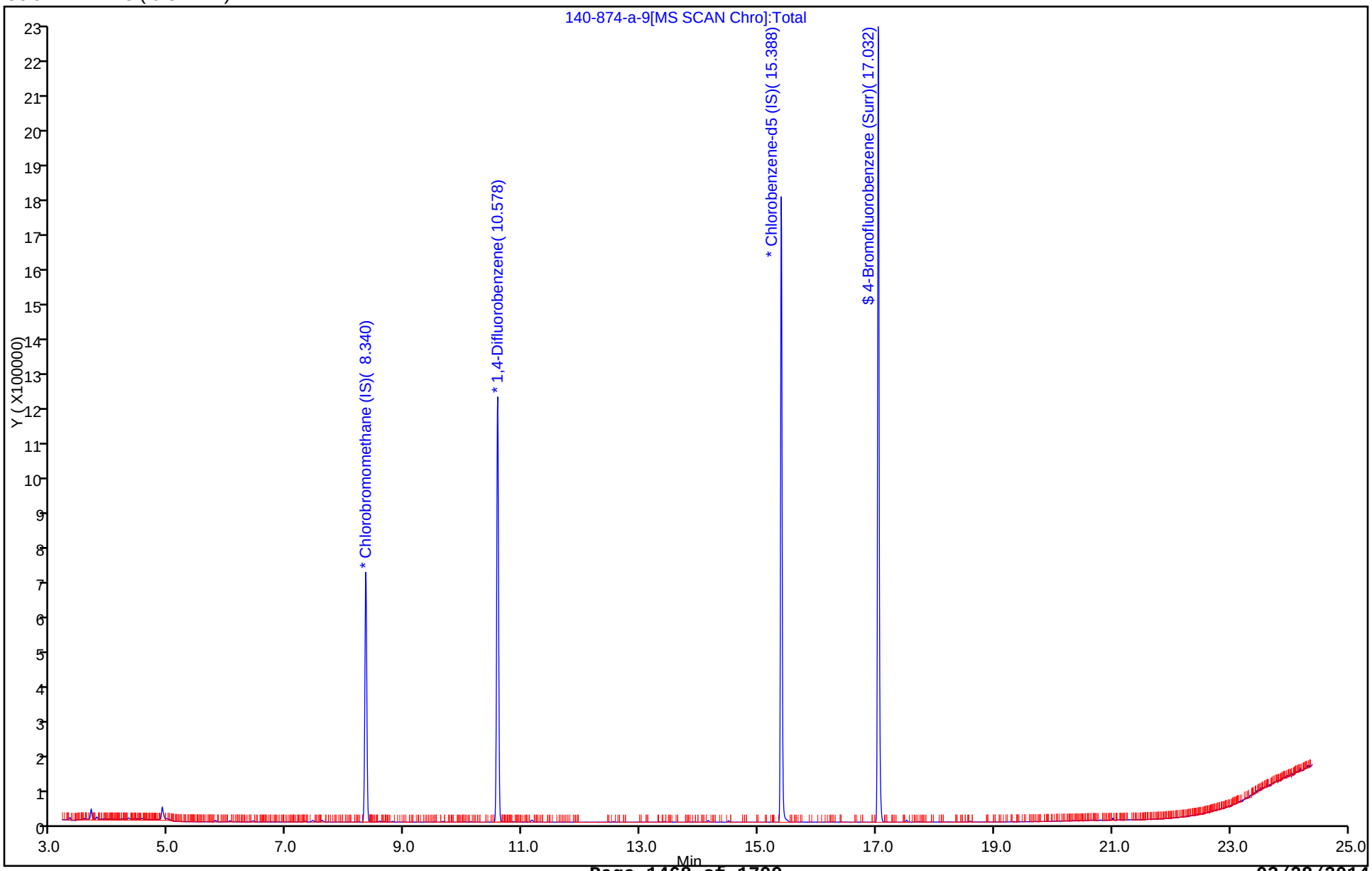
Report Date: 17-Feb-2014 07:53:14 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D

Injection Date:	16-Feb-2014 23:21:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-9	Lab Sample ID:	140-874-9	Worklist Smp#:	15
Client ID:	10815				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 | Lab Sample ID: 140-874-10

Matrix: Air | Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 | Lab Sample ID: 140-874-10

Matrix: Air | Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 Lab Sample ID: 140-874-10

Matrix: Air Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10103 Lab Sample ID: 140-874-10

Matrix: Air Lab File ID: 140-874-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D
Lims ID: 140-874-A-10 Lab Sample ID: 140-874-10
Client ID: 10103
Sample Type: Client
Inject. Date: 17-Feb-2014 00:06:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10103
Misc. Info.: E021614,TO155,,140-0000438-016
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:53:40 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:53:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	234776	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1154768	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	995446	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	860520	3.95	
7 Propene	41	3.314	3.314	0.0	92	3636	0.0616	
44 Tetrahydrofuran	42	8.787	8.760	0.027	63	2456	0.0408	
62 4-Methyl-2-pentanone (MIBK)	43	12.546	12.524	0.022	74	3671	0.0268	

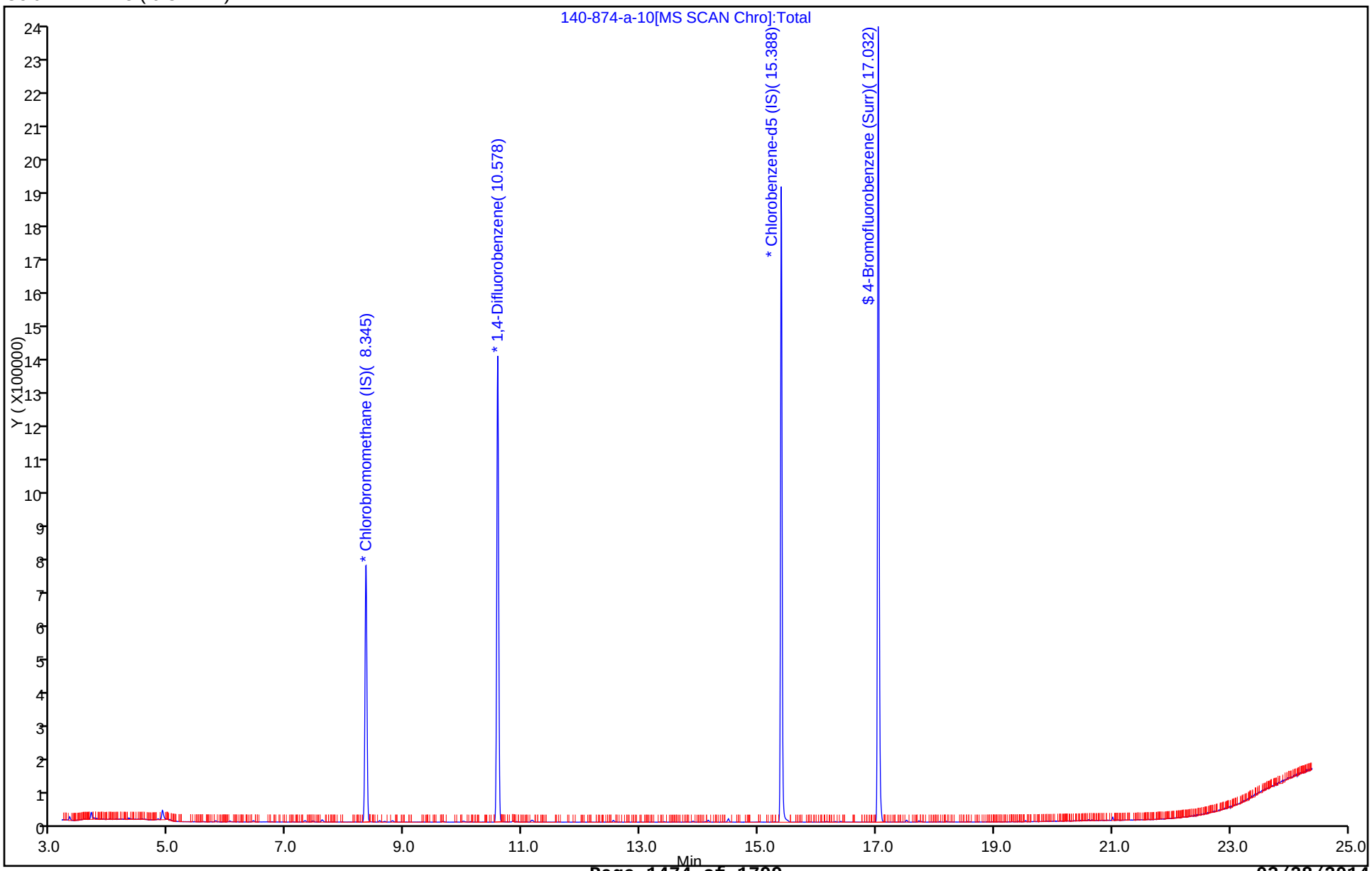
Report Date: 17-Feb-2014 07:53:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D

Injection Date:	17-Feb-2014 00:06:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-10	Lab Sample ID:	140-874-10	Worklist Smp#:	16
Client ID:	10103				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 | Lab Sample ID: 140-874-12

Matrix: Air | Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09683 Lab Sample ID: 140-874-12

Matrix: Air Lab File ID: 140-874-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 01:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D
Lims ID: 140-874-A-12 Lab Sample ID: 140-874-12
Client ID: 09683
Sample Type: Client
Inject. Date: 17-Feb-2014 01:39:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09683
Misc. Info.: E021614,TO155,,140-0000438-018
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:54:54 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:54:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	237697	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1197041	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1064948	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	947171	4.06	

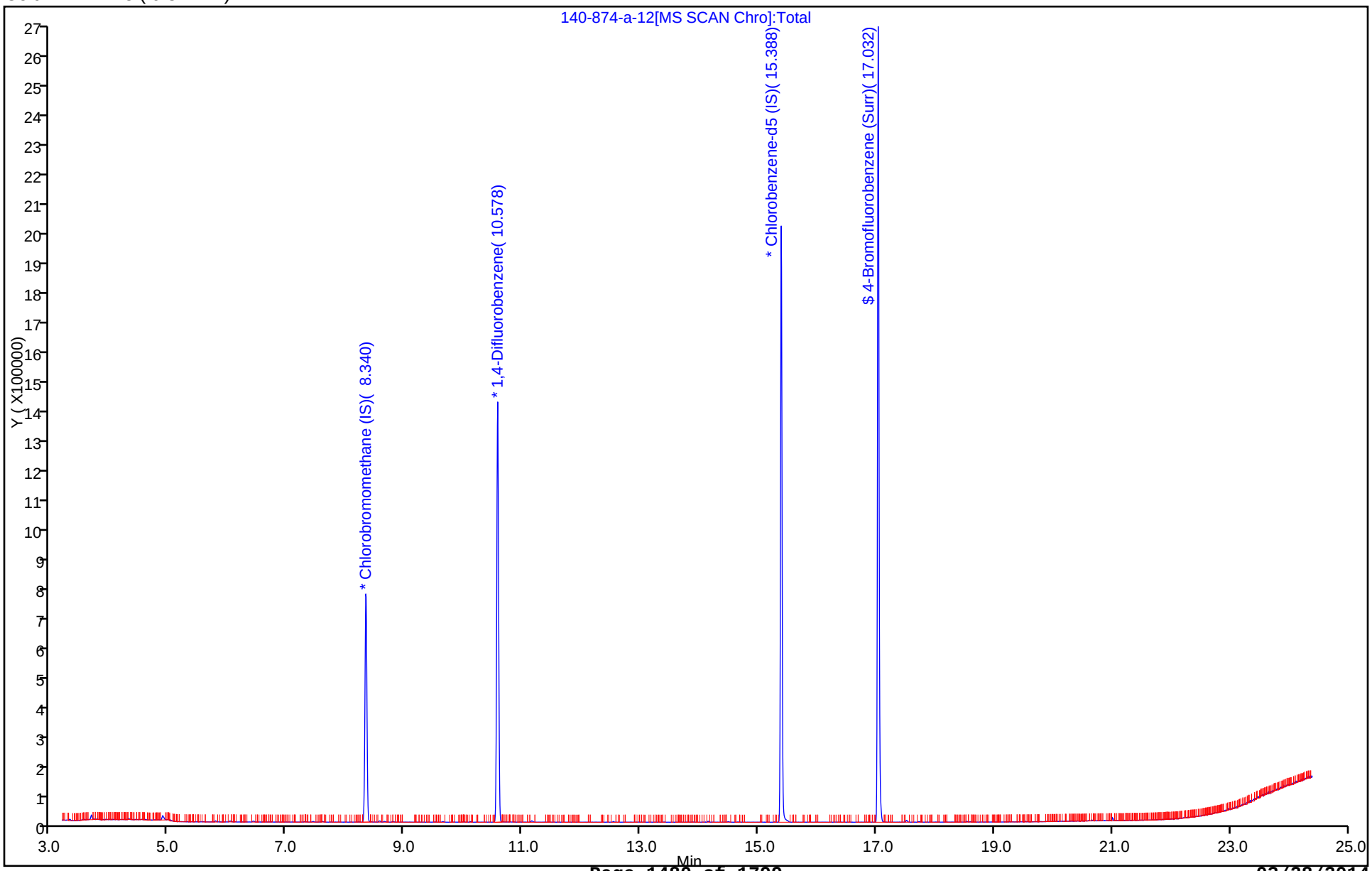
Report Date: 17-Feb-2014 07:54:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D

Injection Date:	17-Feb-2014 01:39:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-12	Lab Sample ID:	140-874-12	Worklist Smp#:	18
Client ID:	09683				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 | Lab Sample ID: 140-874-13

Matrix: Air | Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 09602 Lab Sample ID: 140-874-13

Matrix: Air Lab File ID: 140-874-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 02:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D
Lims ID: 140-874-A-13 Lab Sample ID: 140-874-13
Client ID: 09602
Sample Type: Client
Inject. Date: 17-Feb-2014 02:24:30 ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09602
Misc. Info.: E021614,TO155,,140-0000438-019
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 17-Feb-2014 07:55:23 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:55:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	213583	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	992431	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	908727	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	791406	3.98	
44 Tetrahydrofuran	42	8.798	8.760	0.038	62	1922	0.0351	
48 Benzene	78	9.995	10.000	-0.005	89	14618	0.0732	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	7538	0.0641	

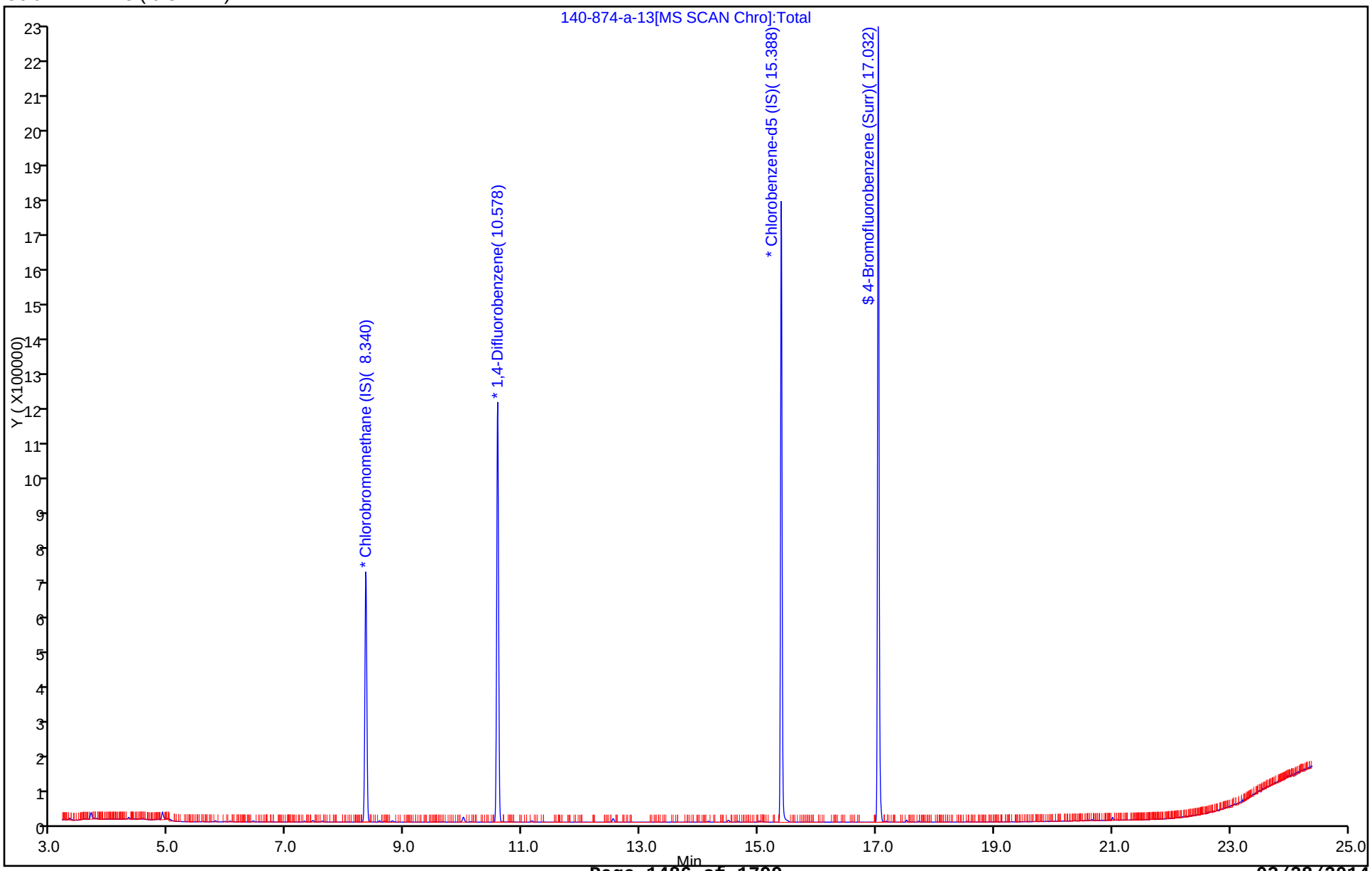
Report Date: 17-Feb-2014 07:55:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D

Injection Date:	17-Feb-2014 02:24:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-13	Lab Sample ID:	140-874-13	Worklist Smp#:	19
Client ID:	09602				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 | Lab Sample ID: 140-874-14

Matrix: Air | Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10992 Lab Sample ID: 140-874-14

Matrix: Air Lab File ID: 140-874-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 03:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D				
Lims ID:	140-874-A-14	Lab Sample ID:	140-874-14		
Client ID:	10992				
Sample Type:	Client				
Inject. Date:	17-Feb-2014 03:09:30	ALS Bottle#:	1	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10992				
Misc. Info.:	E021614,TO155,,140-0000438-020				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:55:56	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:55:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	241105	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1209506	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1060998	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	933286	4.02	
24 Isopropyl alcohol	45	4.980	4.969	0.011	80	6331	0.0673	
33 Carbon disulfide	76	5.946	5.951	-0.005	82	5853	0.0235	
44 Tetrahydrofuran	42	8.787	8.760	0.027	82	3017	0.0488	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	85	13722	0.0957	

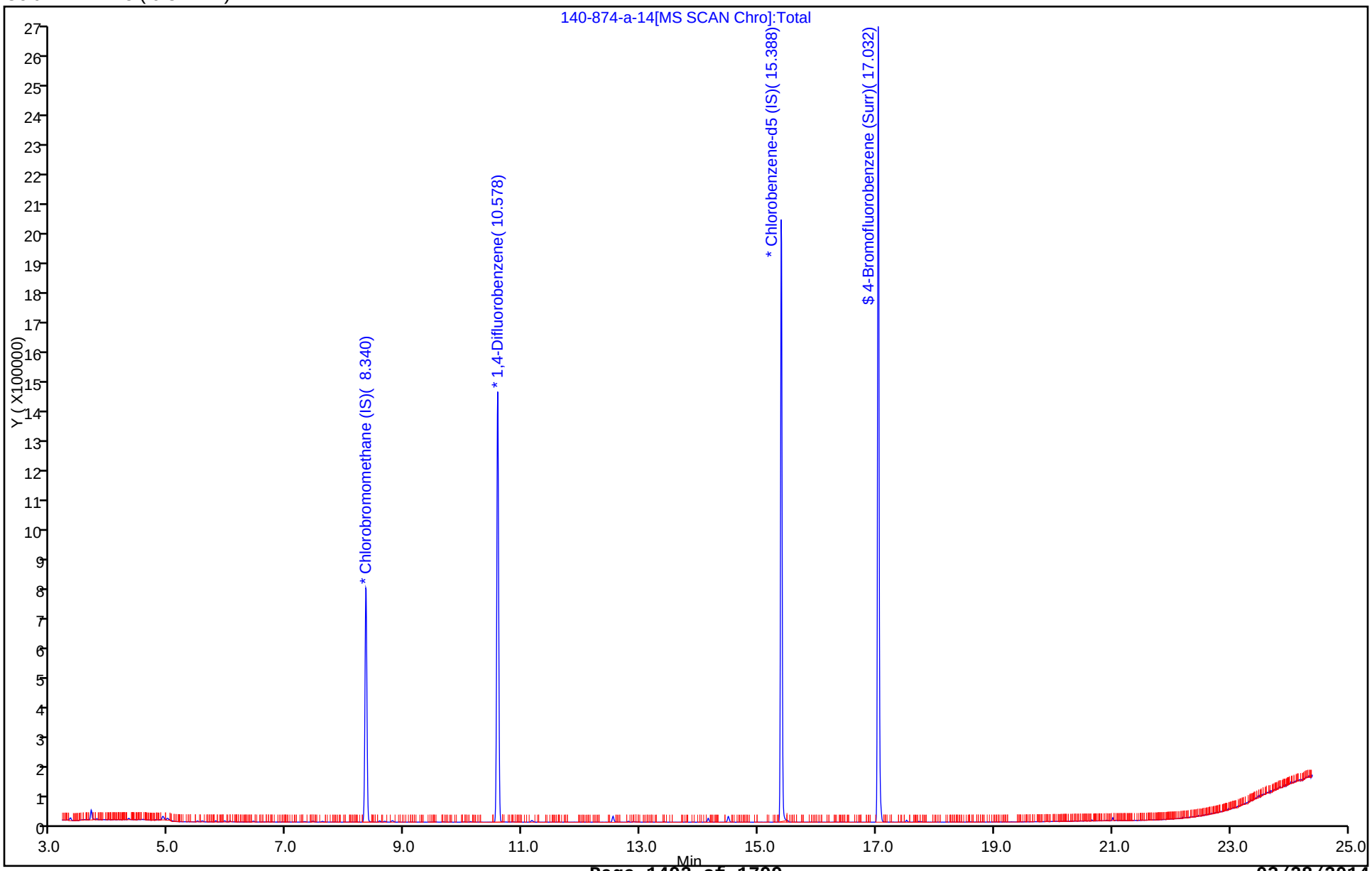
Report Date: 17-Feb-2014 07:55:57 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D

Injection Date:	17-Feb-2014 03:09:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-14	Lab Sample ID:	140-874-14	Worklist Smp#:	20
Client ID:	10992				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 | Lab Sample ID: 140-874-16

Matrix: Air | Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 | Lab Sample ID: 140-874-16

Matrix: Air | Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 | Lab Sample ID: 140-874-16

Matrix: Air | Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1

SDG No.:

Client Sample ID: 10119 Lab Sample ID: 140-874-16

Matrix: Air Lab File ID: 140-874-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D				
Lims ID:	140-874-A-16	Lab Sample ID:	140-874-16		
Client ID:	10119				
Sample Type:	Client				
Inject. Date:	17-Feb-2014 04:40:30	ALS Bottle#:	3	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10119				
Misc. Info.:	E021614,TO155,,140-0000438-022				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:58:25	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:58:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	237409	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1184314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	1021115	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	876763	3.92	
44 Tetrahydrofuran	42	8.798	8.760	0.038	64	2091	0.0343	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	72	2906	0.0207	

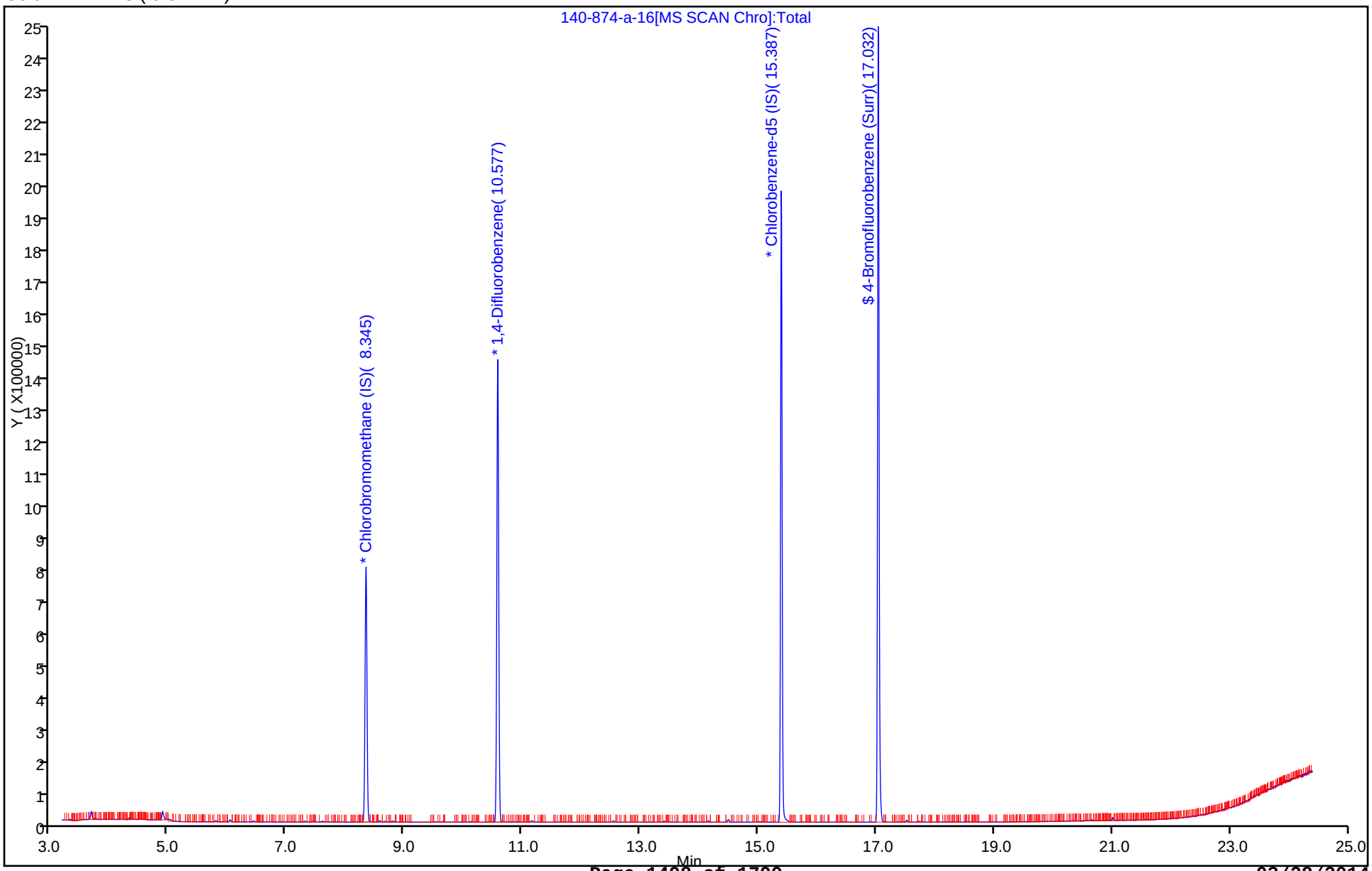
Report Date: 17-Feb-2014 07:58:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D

Injection Date:	17-Feb-2014 04:40:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-874-A-16	Lab Sample ID:	140-874-16	Worklist Smp#:	22
Client ID:	10119				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-875-1

SDG No.:

Client Sample ID: 10512 | Lab Sample ID: 140-875-13

Matrix: Air | Lab File ID: 140-875-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/14/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 15:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-875-1

SDG No.:

Client Sample ID: 10512 | Lab Sample ID: 140-875-13

Matrix: Air | Lab File ID: 140-875-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/14/2014 09:45

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 15:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1

SDG No.:

Client Sample ID: 10512 Lab Sample ID: 140-875-13

Matrix: Air Lab File ID: 140-875-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1

SDG No.:

Client Sample ID: 10512 Lab Sample ID: 140-875-13

Matrix: Air Lab File ID: 140-875-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-875-a-13.D
Lims ID: 140-875-A-13 Lab Sample ID: 140-875-13
Client ID: 10512
Sample Type: Client
Inject. Date: 16-Feb-2014 15:05:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10512
Misc. Info.: E021614,TO155,,140-0000438-004
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 16-Feb-2014 16:33:17 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK036

First Level Reviewer: barlozhetskayaa Date: 16-Feb-2014 16:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	81	215902	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	937088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	90	840037	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.032	0.006	86	709390	3.86	
7 Propene	41	3.319	3.314	0.005	84	1788	0.0329	
14 Butane	43	3.778	3.778	0.0	82	3055	0.0296	
44 Tetrahydrofuran	42	8.793	8.760	0.033	77	5230	0.0944	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	8485	0.0764	

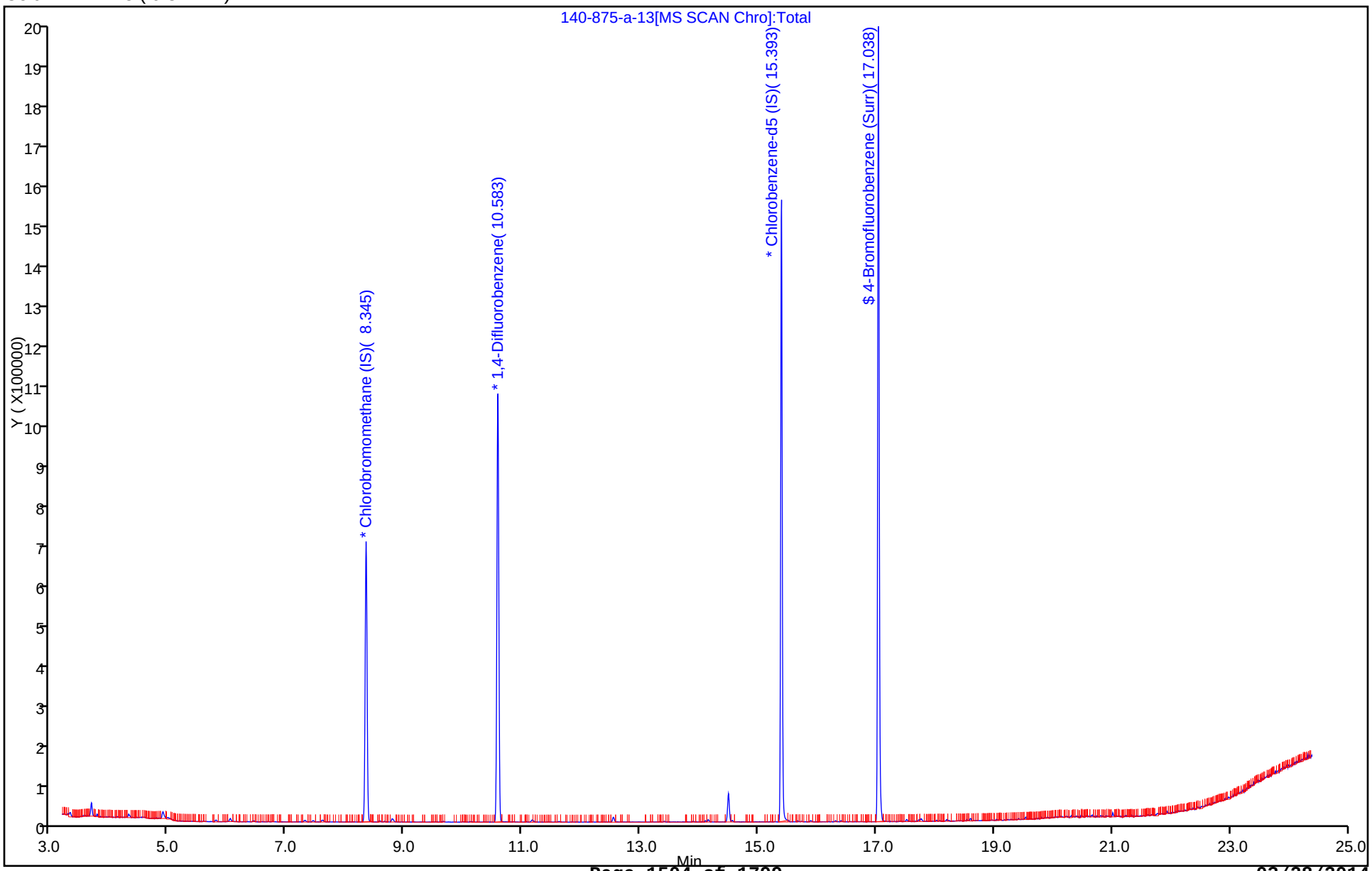
Report Date: 16-Feb-2014 16:33:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-875-a-13.D

Injection Date:	16-Feb-2014 15:05:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-875-A-13	Lab Sample ID:	140-875-13	Worklist Smp#:	4
Client ID:	10512				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 | Lab Sample ID: 140-887-1

Matrix: Air | Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09990 Lab Sample ID: 140-887-1

Matrix: Air Lab File ID: 140-887-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D
Lims ID: 140-887-A-1 Lab Sample ID: 140-887-1
Client ID: 09990
Sample Type: Client
Inject. Date: 17-Feb-2014 17:42:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09990
Misc. Info.: J021714,TO15,,140-0000443-006
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:08:39 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:08:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234570	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1112648	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.227	16.229	-0.002	96	917035	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	79	748121	4.09	
7 Propene	41	3.972	3.974	-0.002	92	4831	0.0385	
13 Butane	43	4.516	4.523	-0.007	77	7175	0.0537	
19 2-Methylbutane	43	5.419	5.421	-0.002	58	2212	0.0201	
28 2-Methyl-2-propanol	59	6.517	6.492	0.025	42	3223	0.0229	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	86	20014	0.1059	

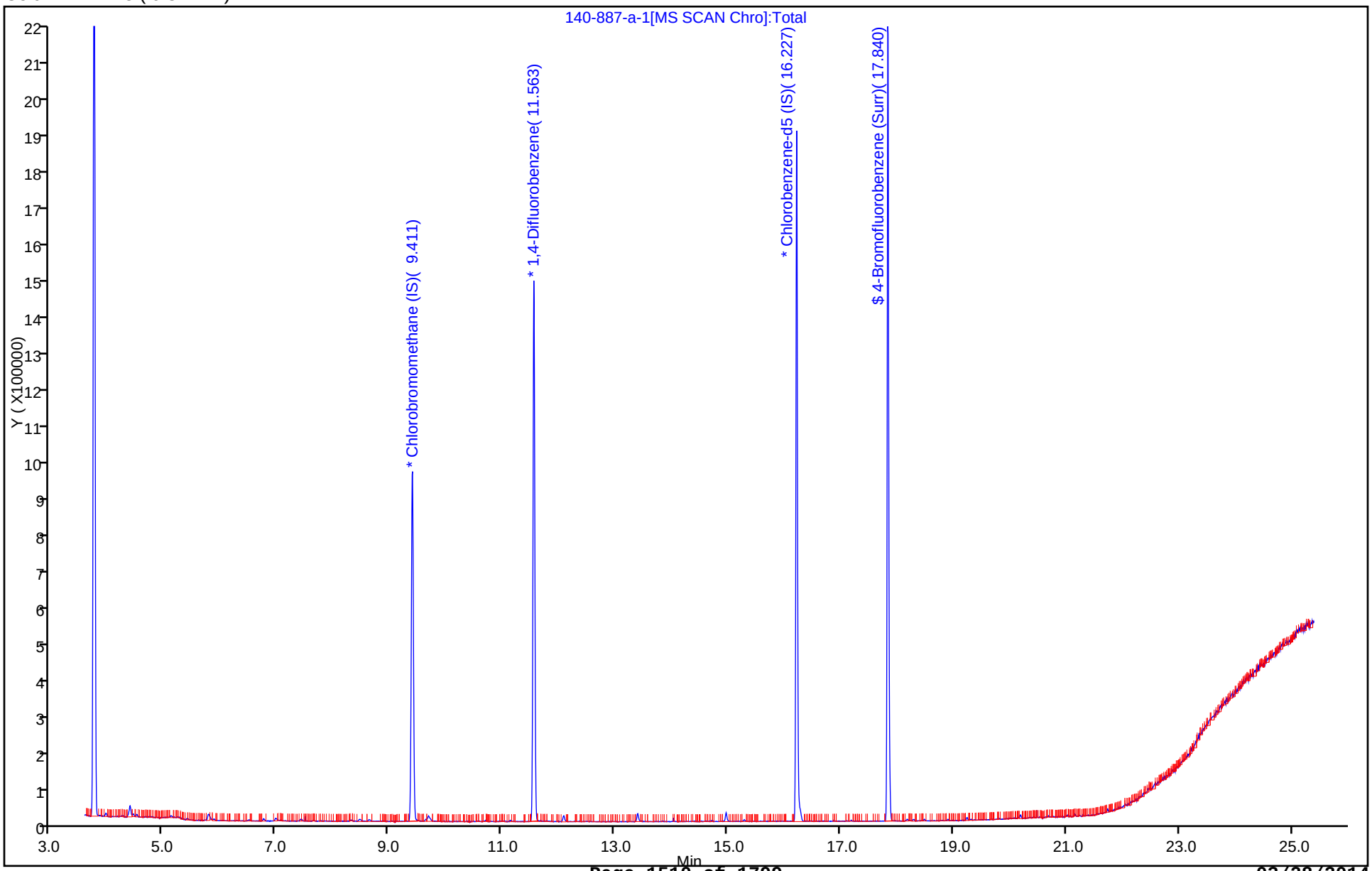
Report Date: 18-Feb-2014 09:08:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D

Injection Date:	17-Feb-2014 17:42:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-1	Lab Sample ID:	140-887-1	Worklist Smp#:	6
Client ID:	09990				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 | Lab Sample ID: 140-887-2

Matrix: Air | Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09609 Lab Sample ID: 140-887-2

Matrix: Air Lab File ID: 140-887-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D
Lims ID: 140-887-A-2 Lab Sample ID: 140-887-2
Client ID: 09609
Sample Type: Client
Inject. Date: 17-Feb-2014 18:37:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09609
Misc. Info.: J021714,TO15,,140-0000443-007
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:09:07 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:09:06

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228881	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1124225	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	920012	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	724033	3.94	
	28 2-Methyl-2-propanol	59	6.515	6.492	0.023	31	3061	0.0223	
	62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	68	7138	0.0374	

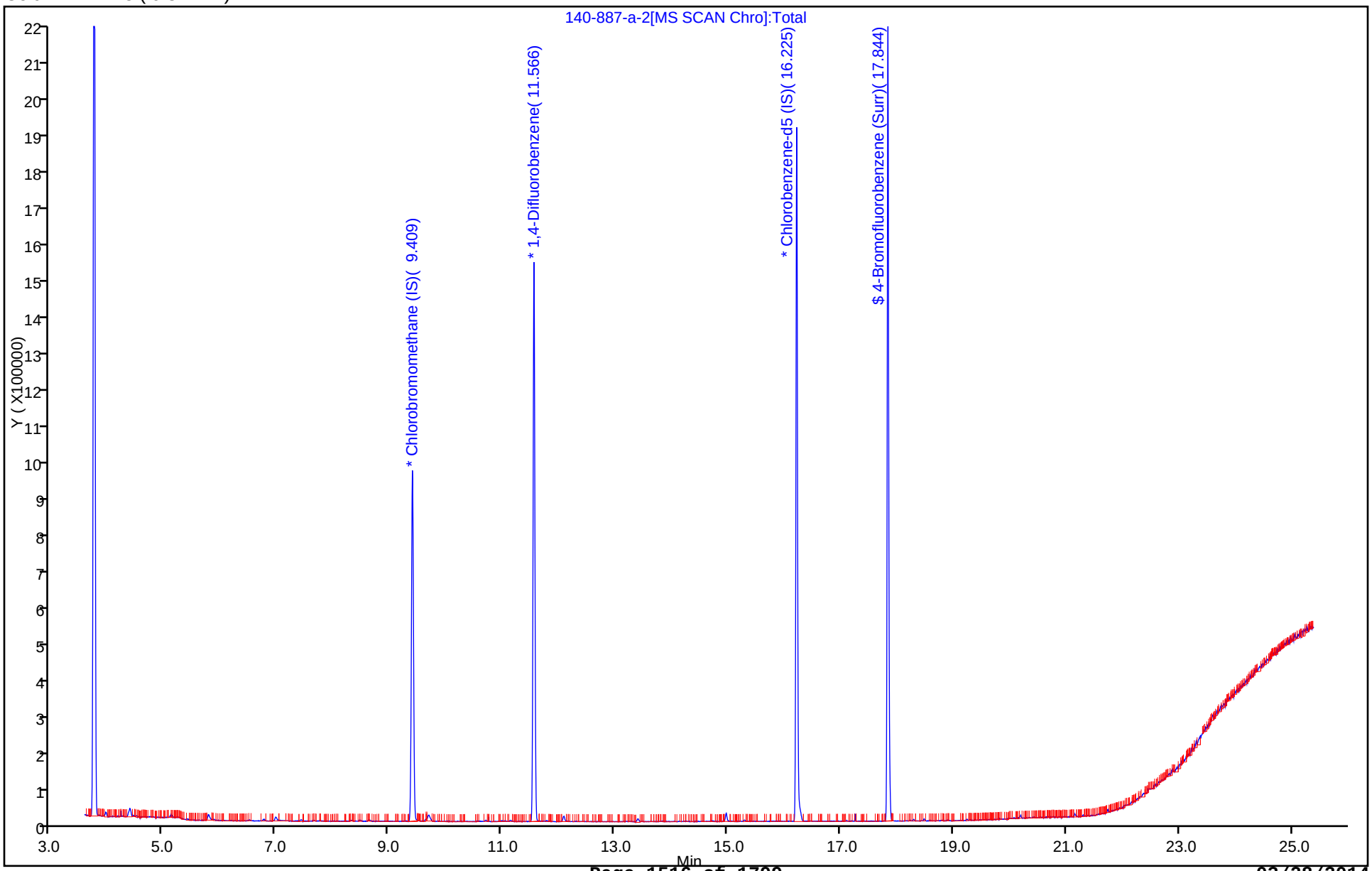
Report Date: 18-Feb-2014 09:09:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D

Injection Date:	17-Feb-2014 18:37:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-2	Lab Sample ID:	140-887-2	Worklist Smp#:	7
Client ID:	09609				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 | Lab Sample ID: 140-887-5

Matrix: Air | Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10426 Lab Sample ID: 140-887-5

Matrix: Air Lab File ID: 140-887-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D
Lims ID: 140-887-A-5 Lab Sample ID: 140-887-5
Client ID: 10426
Sample Type: Client
Inject. Date: 17-Feb-2014 21:20:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10426
Misc. Info.: J021714,TO15,,140-0000443-010
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:10:54 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228039	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1142730	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	979591	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	85	796262	4.07	
7 Propene	41	3.976	3.974	0.002	87	4305	0.0353	
28 2-Methyl-2-propanol	59	6.515	6.492	0.023	46	2506	0.0183	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	69	5993	0.0309	

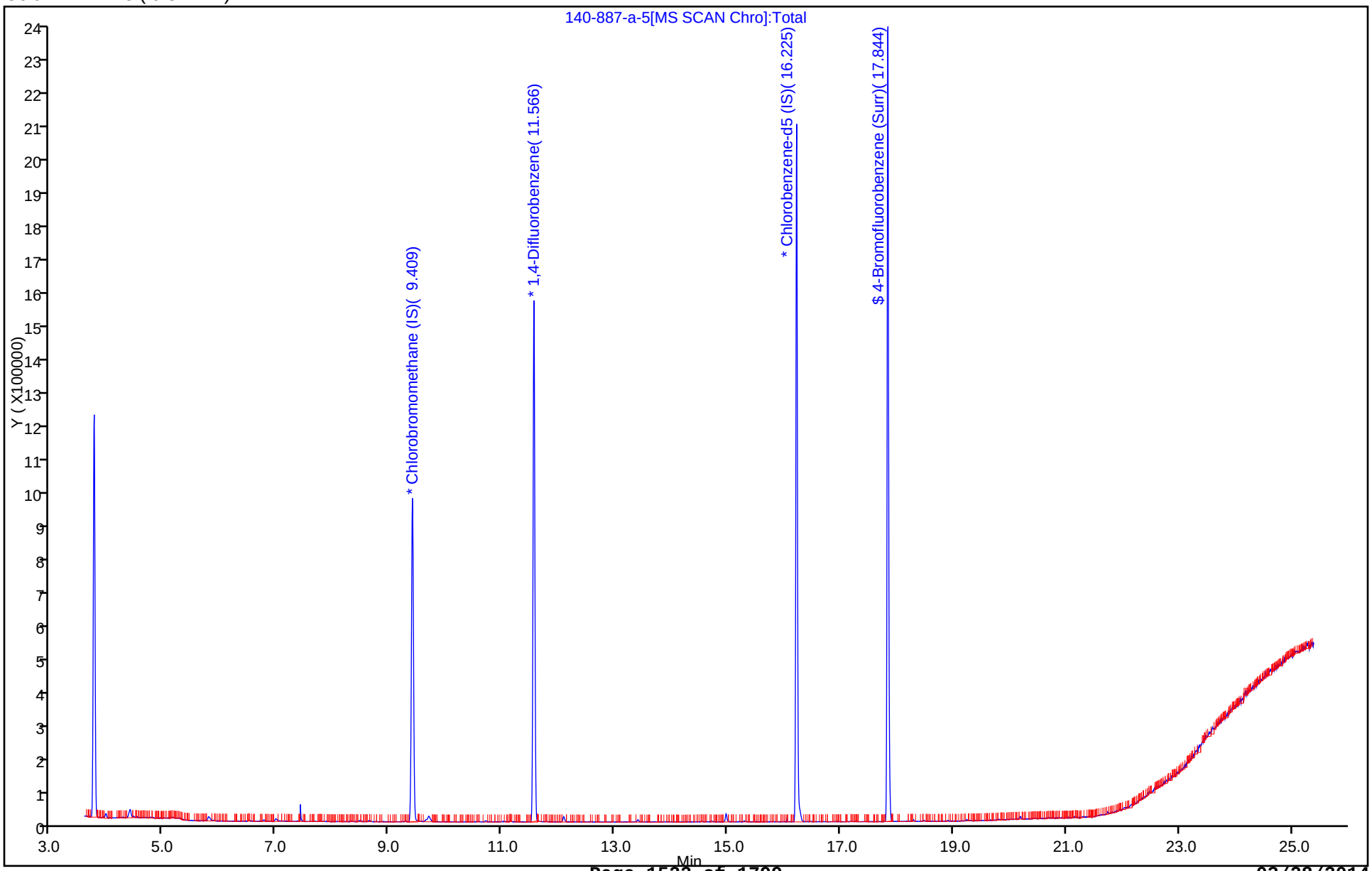
Report Date: 18-Feb-2014 09:10:55 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D

Injection Date:	17-Feb-2014 21:20:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-5	Lab Sample ID:	140-887-5	Worklist Smp#:	10
Client ID:	10426				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 | Lab Sample ID: 140-887-6

Matrix: Air | Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10578 Lab Sample ID: 140-887-6

Matrix: Air Lab File ID: 140-887-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 18-Feb-2014 09:11:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D
Lims ID: 140-887-A-6 Lab Sample ID: 140-887-6
Client ID: 10578
Sample Type: Client
Inject. Date: 17-Feb-2014 22:14:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10578
Misc. Info.: J021714,TO15,,140-0000443-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:22 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234526	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1084974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	888329	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	719762	4.06	
7 Propene	41	3.976	3.974	0.002	69	4102	0.0327	
28 2-Methyl-2-propanol	59	6.531	6.492	0.039	6	2301	0.0163	
44 Tetrahydrofuran	42	9.861	9.833	0.028	80	5635	0.0688	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	87	30074	0.1632	

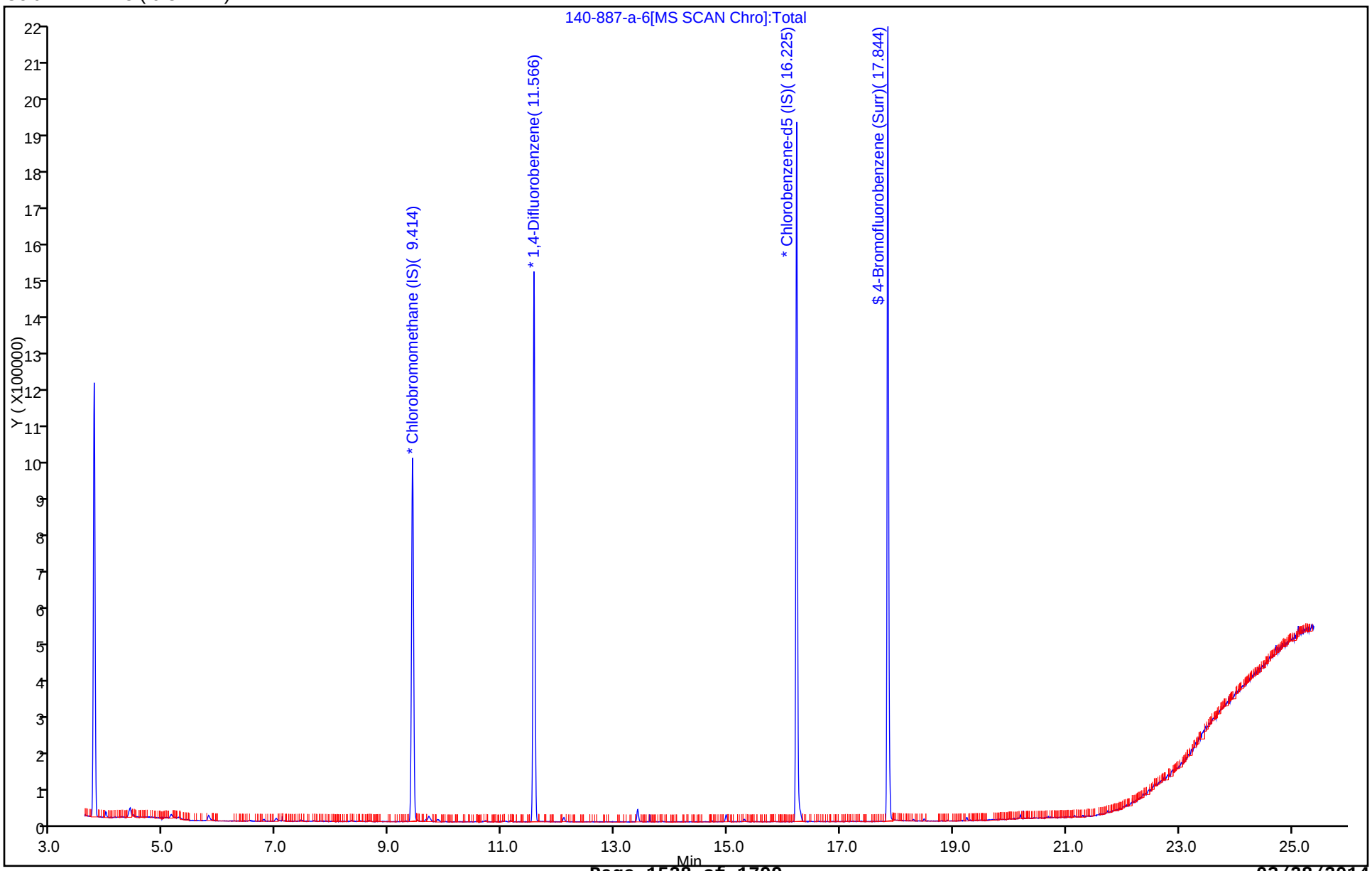
Report Date: 18-Feb-2014 09:11:23 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D

Injection Date:	17-Feb-2014 22:14:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-6	Lab Sample ID:	140-887-6	Worklist Smp#:	11
Client ID:	10578				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 | Lab Sample ID: 140-887-8

Matrix: Air | Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10718 Lab Sample ID: 140-887-8

Matrix: Air Lab File ID: 140-887-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D
Lims ID: 140-887-A-8 Lab Sample ID: 140-887-8
Client ID: 10718
Sample Type: Client
Inject. Date: 17-Feb-2014 23:08:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10718
Misc. Info.: J021714,TO15,,140-0000443-012
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:11:53 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:11:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234757	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1129568	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	931520	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	731564	3.94	
7 Propene	41	3.981	3.974	0.007	90	4432	0.0353	
13 Butane	43	4.524	4.523	0.001	77	10078	0.0754	
19 2-Methylbutane	43	5.417	5.421	-0.004	63	2815	0.0255	
28 2-Methyl-2-propanol	59	6.514	6.492	0.022	50	3058	0.0217	
33 Carbon disulfide	76	6.956	6.960	-0.004	91	16157	0.0635	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	78	12128	0.0632	

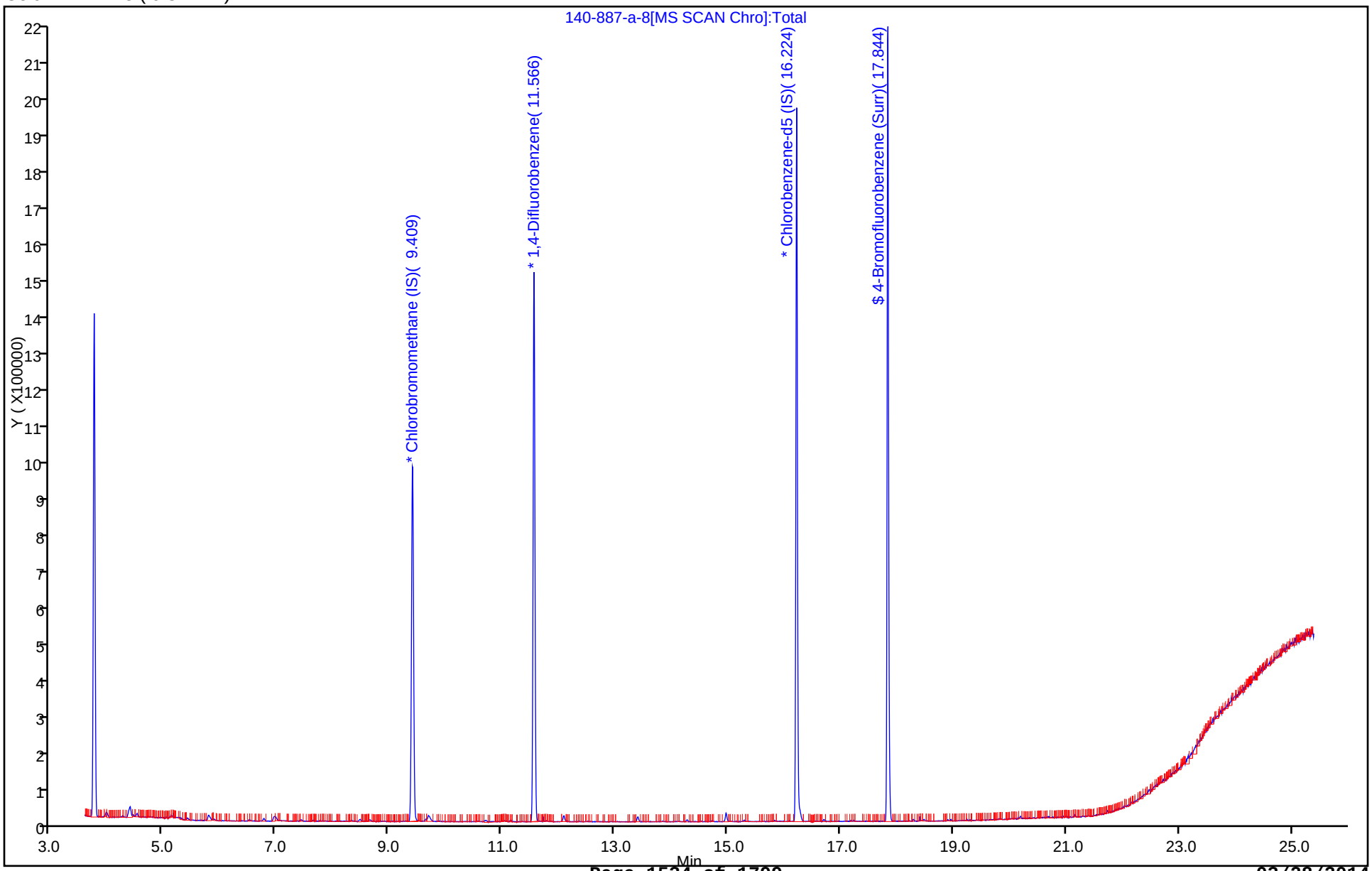
Report Date: 18-Feb-2014 09:11:54 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D

Injection Date:	17-Feb-2014 23:08:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-8	Lab Sample ID:	140-887-8	Worklist Smp#:	12
Client ID:	10718				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 | Lab Sample ID: 140-887-9

Matrix: Air | Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10367 Lab Sample ID: 140-887-9

Matrix: Air Lab File ID: 140-887-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D
Lims ID: 140-887-A-9 Lab Sample ID: 140-887-9
Client ID: 10367
Sample Type: Client
Inject. Date: 18-Feb-2014 00:05:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10367
Misc. Info.: J021714,TO15,,140-0000443-013
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:12:18 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:12:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	232063	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1078719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	855061	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.843	-0.005	78	667028	3.91	
28 2-Methyl-2-propanol	59	6.509	6.492	0.017	48	4069	0.0292	

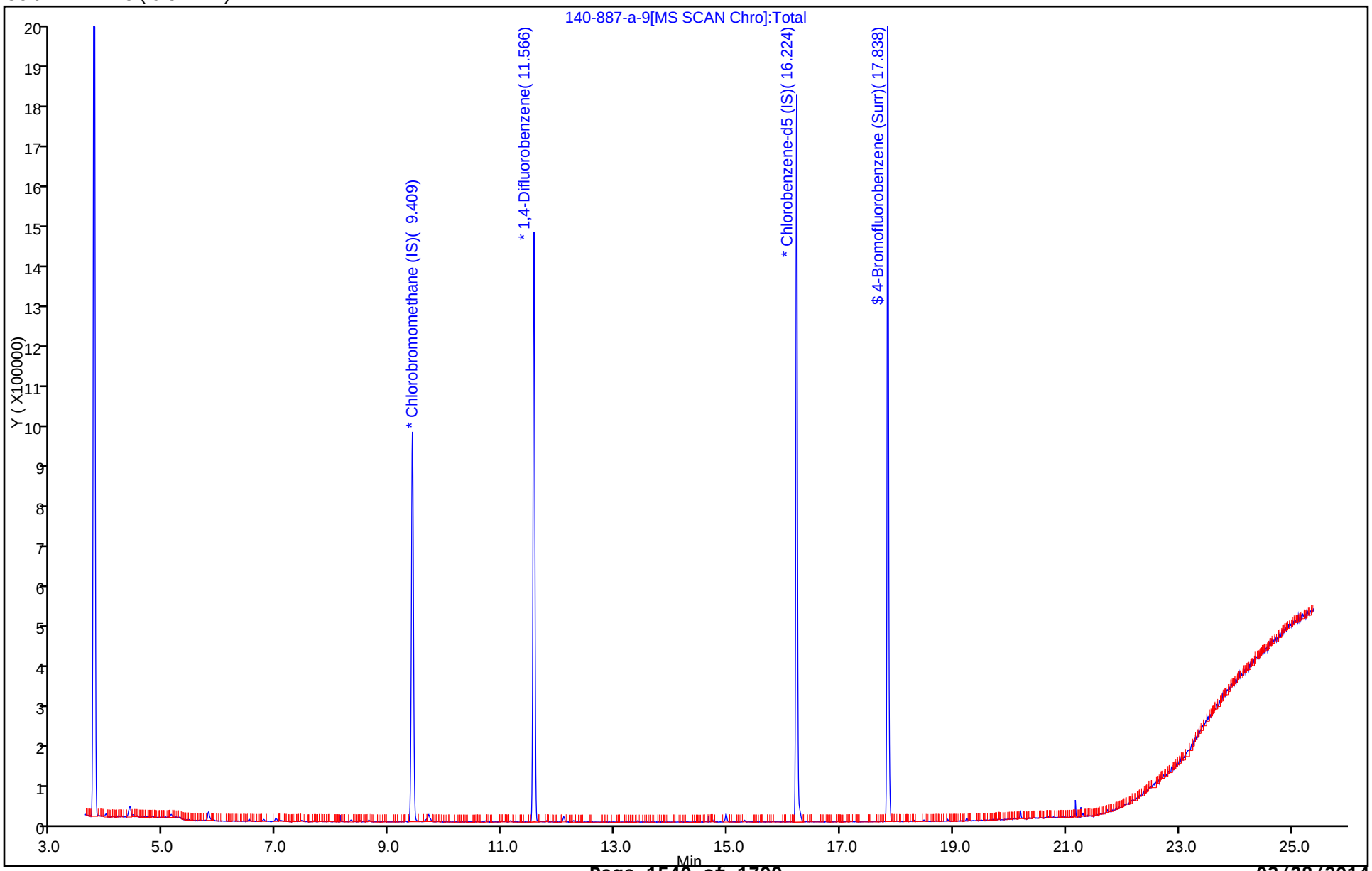
Report Date: 18-Feb-2014 09:12:19 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D

Injection Date:	18-Feb-2014 00:05:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-9	Lab Sample ID:	140-887-9	Worklist Smp#:	13
Client ID:	10367				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 | Lab Sample ID: 140-887-11

Matrix: Air | Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09513 Lab Sample ID: 140-887-11

Matrix: Air Lab File ID: 140-887-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 01:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 18-Feb-2014 09:13:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D
Lims ID: 140-887-A-11 Lab Sample ID: 140-887-11
Client ID: 09513
Sample Type: Client
Inject. Date: 18-Feb-2014 01:54:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09513
Misc. Info.: J021714,TO15,,140-0000443-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:13:45 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:13:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.407	9.418	-0.012	89	232043	4.00	
*	2 1,4-Difluorobenzene	114	11.564	11.570	-0.006	98	1067906	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	870406	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.842	17.843	-0.001	79	716999	4.13	
	28 2-Methyl-2-propanol	59	6.518	6.492	0.026	28	2611	0.0187	
	44 Tetrahydrofuran	42	9.697	9.833	-0.136	16	6588	0.0812	
	62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	70	8614	0.0475	

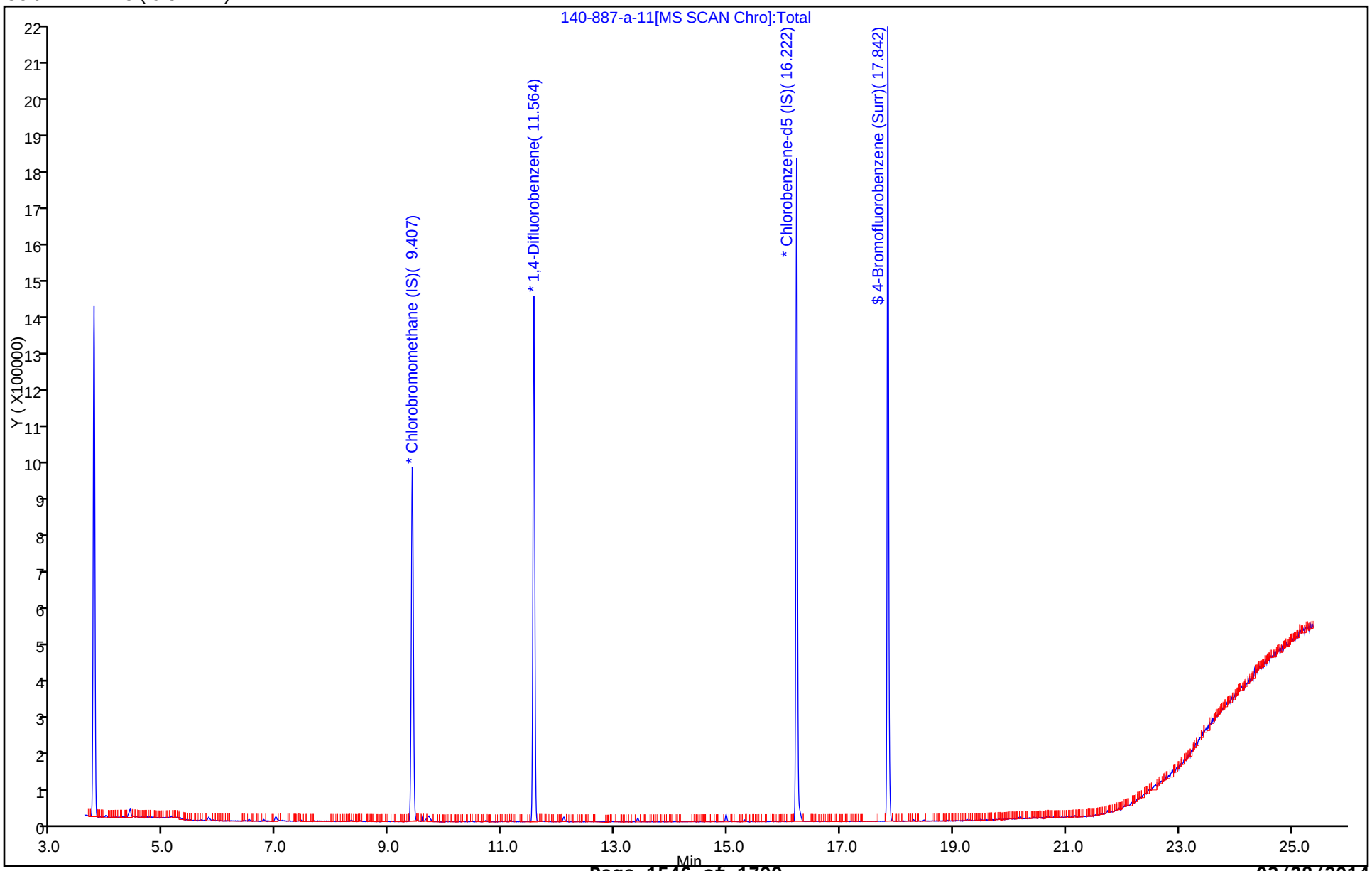
Report Date: 18-Feb-2014 09:13:46 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D

Injection Date:	18-Feb-2014 01:54:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-11	Lab Sample ID:	140-887-11	Worklist Smp#:	15
Client ID:	09513				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 | Lab Sample ID: 140-887-13

Matrix: Air | Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 | Lab Sample ID: 140-887-13

Matrix: Air | Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09820 Lab Sample ID: 140-887-13

Matrix: Air Lab File ID: 140-887-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D
Lims ID: 140-887-A-13 Lab Sample ID: 140-887-13
Client ID: 09820
Sample Type: Client
Inject. Date: 18-Feb-2014 03:44:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09820
Misc. Info.: J021714,TO15,,140-0000443-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.418	-0.006	90	230349	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1076802	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	865396	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.843	-0.002	79	684889	3.97	
7 Propene	41	3.973	3.974	-0.001	45	4500	0.0365	
28 2-Methyl-2-propanol	59	6.512	6.492	0.020	47	3840	0.0277	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	84	16476	0.0901	

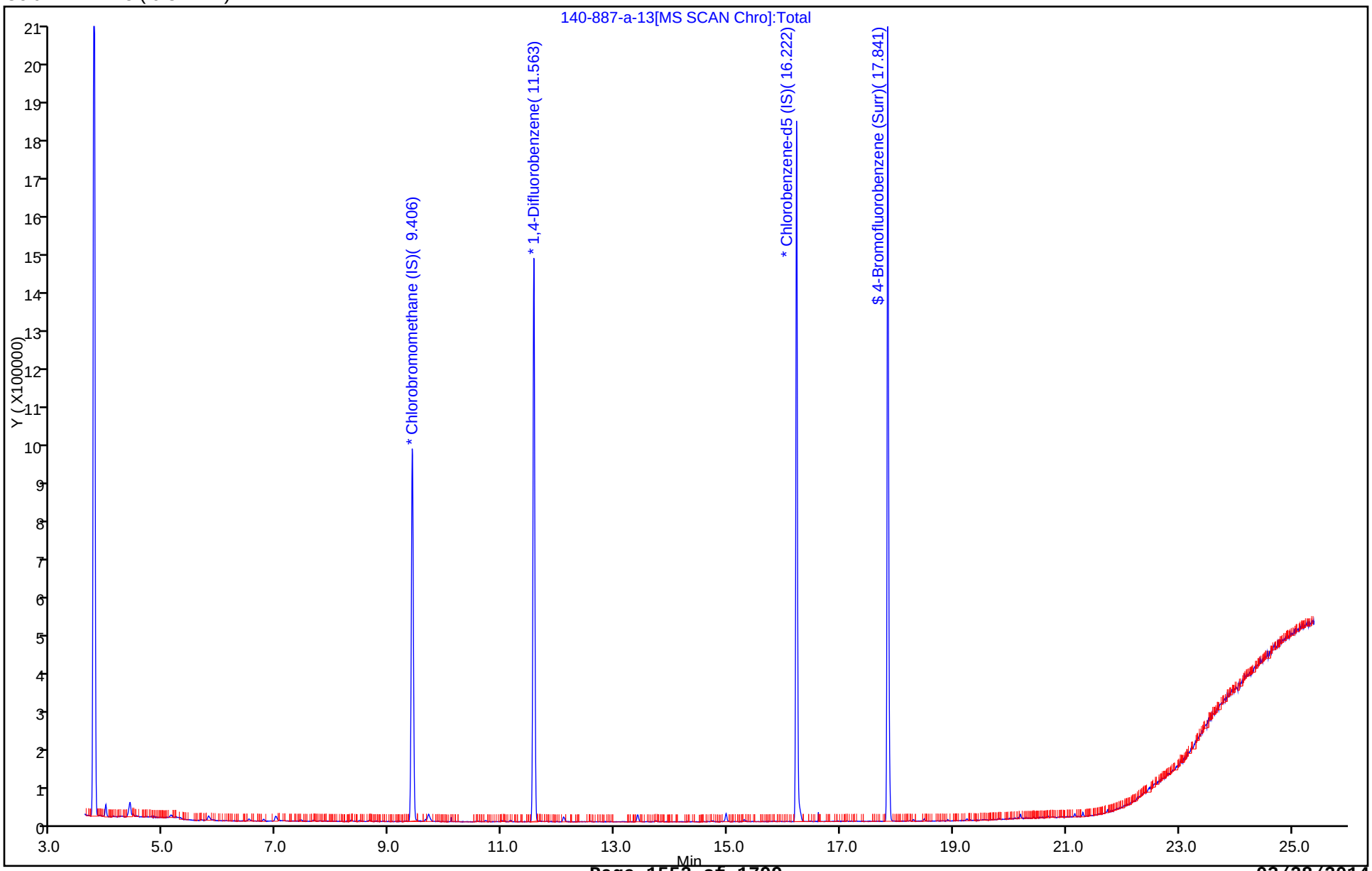
Report Date: 18-Feb-2014 09:15:02 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D

Injection Date:	18-Feb-2014 03:44:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-13	Lab Sample ID:	140-887-13	Worklist Smp#:	17
Client ID:	09820				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 | Lab Sample ID: 140-887-14

Matrix: Air | Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 Lab Sample ID: 140-887-14

Matrix: Air Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 10248 Lab Sample ID: 140-887-14

Matrix: Air Lab File ID: 140-887-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D
Lims ID: 140-887-A-14 Lab Sample ID: 140-887-14
Client ID: 10248
Sample Type: Client
Inject. Date: 18-Feb-2014 04:38:30 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10248
Misc. Info.: J021714,TO15,,140-0000443-018
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:15:28 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	235467	4.00	
*	2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1138994	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	961934	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	787823	4.10	
	28 2-Methyl-2-propanol	59	6.520	6.492	0.028	47	3082	0.0218	
	62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	70	8327	0.0431	

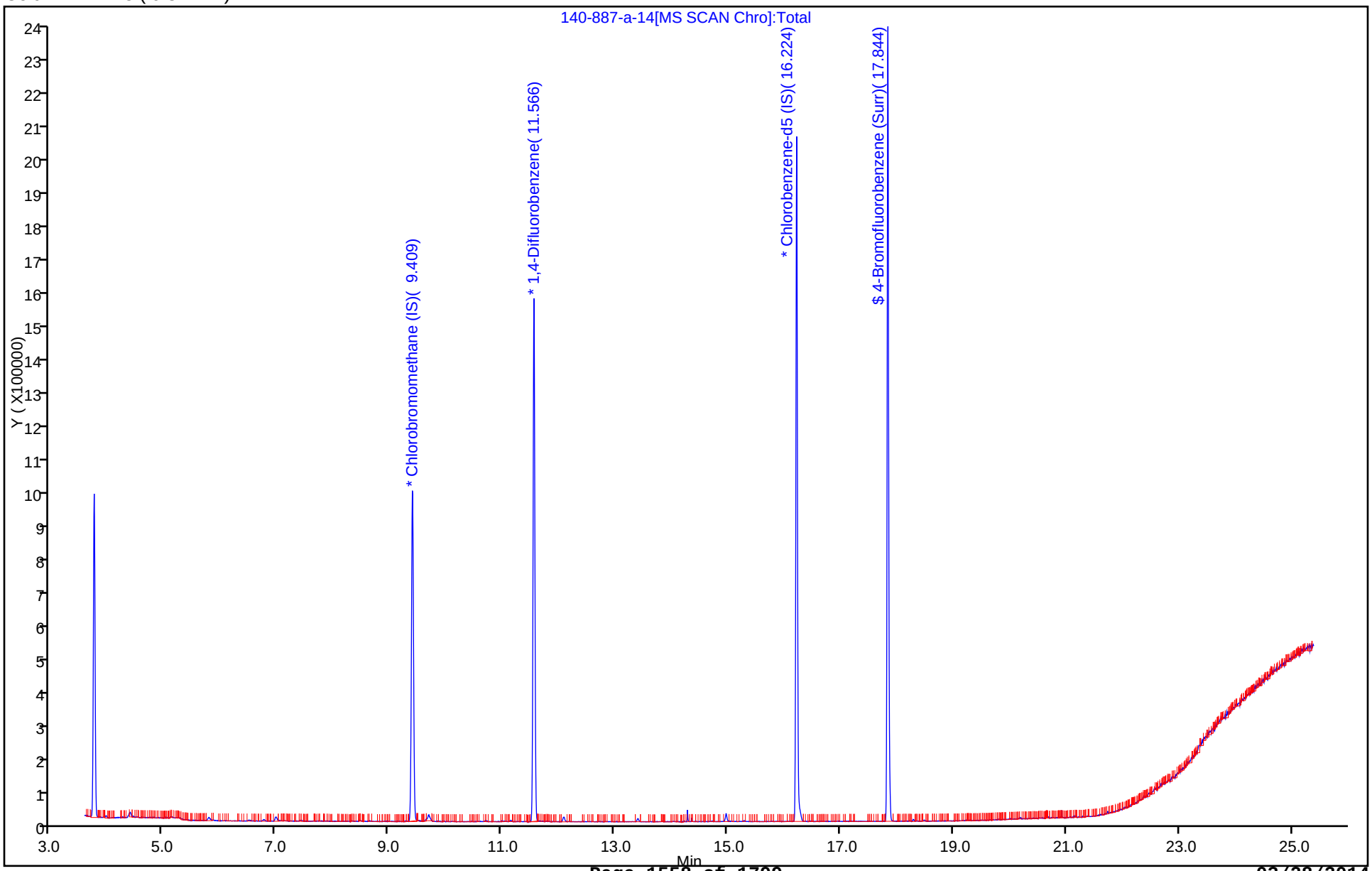
Report Date: 18-Feb-2014 09:15:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D

Injection Date:	18-Feb-2014 04:38:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-14	Lab Sample ID:	140-887-14	Worklist Smp#:	18
Client ID:	10248				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 | Lab Sample ID: 140-887-16

Matrix: Air | Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 Lab Sample ID: 140-887-16

Matrix: Air Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1

SDG No.:

Client Sample ID: 09526 Lab Sample ID: 140-887-16

Matrix: Air Lab File ID: 140-887-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D
Lims ID: 140-887-A-16 Lab Sample ID: 140-887-16
Client ID: 09526
Sample Type: Client
Inject. Date: 18-Feb-2014 06:28:30 ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09526
Misc. Info.: J021714,TO15,,140-0000443-020
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Feb-2014 09:16:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:16:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.410	9.418	-0.008	90	244816	4.00	
* 2 1,4-Difluorobenzene	114	11.567	11.570	-0.003	98	1187906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	978359	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	79	774920	3.97	
7 Propene	41	3.976	3.974	0.002	89	4495	0.0343	
28 2-Methyl-2-propanol	59	6.505	6.492	0.013	65	6413	0.0436	
47 n-Butanol	31	10.986	10.968	0.018	72	2420	0.0562	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.399	0.002	90	28428	0.1409	
93 1,2,4-Trimethylbenzene	105	18.964	18.962	0.002	32	5670	0.0267	

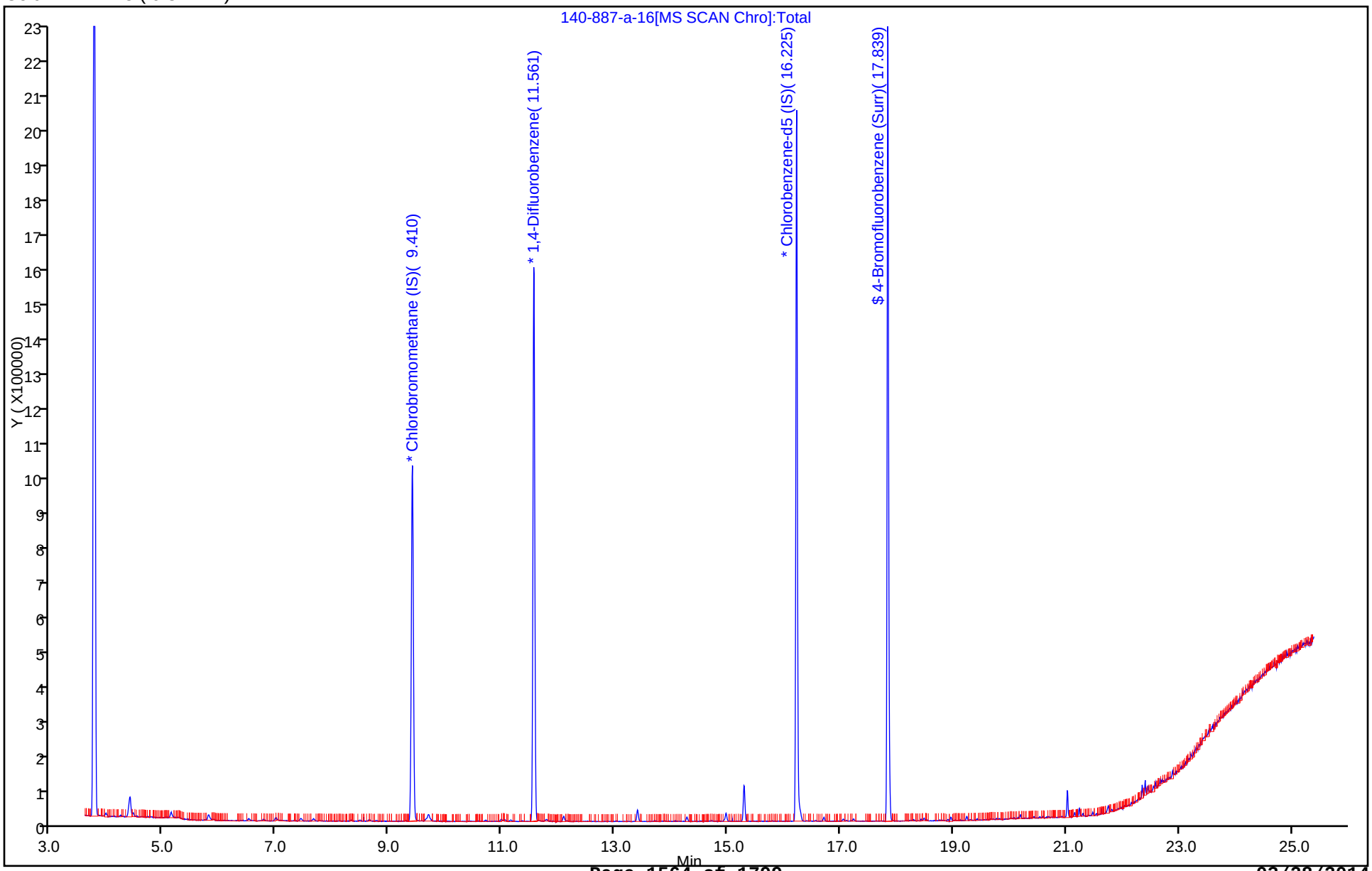
Report Date: 18-Feb-2014 09:16:31 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D

Injection Date:	18-Feb-2014 06:28:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-887-A-16	Lab Sample ID:	140-887-16	Worklist Smp#:	20
Client ID:	09526				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-888-1

SDG No.:

Client Sample ID: 09672 | Lab Sample ID: 140-888-5

Matrix: Air | Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-888-1

SDG No.:

Client Sample ID: 09672 | Lab Sample ID: 140-888-5

Matrix: Air | Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-888-1

SDG No.:

Client Sample ID: 09672 | Lab Sample ID: 140-888-5

Matrix: Air | Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 845 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1

SDG No.:

Client Sample ID: 09672 Lab Sample ID: 140-888-5

Matrix: Air Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D				
Lims ID:	140-888-A-5	Lab Sample ID:	140-888-5		
Client ID:	09672				
Sample Type:	Client				
Inject. Date:	16-Feb-2014 17:22:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09672				
Misc. Info.:	E021614,TO155,,140-0000438-007				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	17-Feb-2014 07:35:45	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: tajh		Date:	17-Feb-2014 07:35:45		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	83	250068	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1251873	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	90	1085736	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	923696	3.89	
44 Tetrahydrofuran	42	8.782	8.760	0.022	69	4094	0.0638	

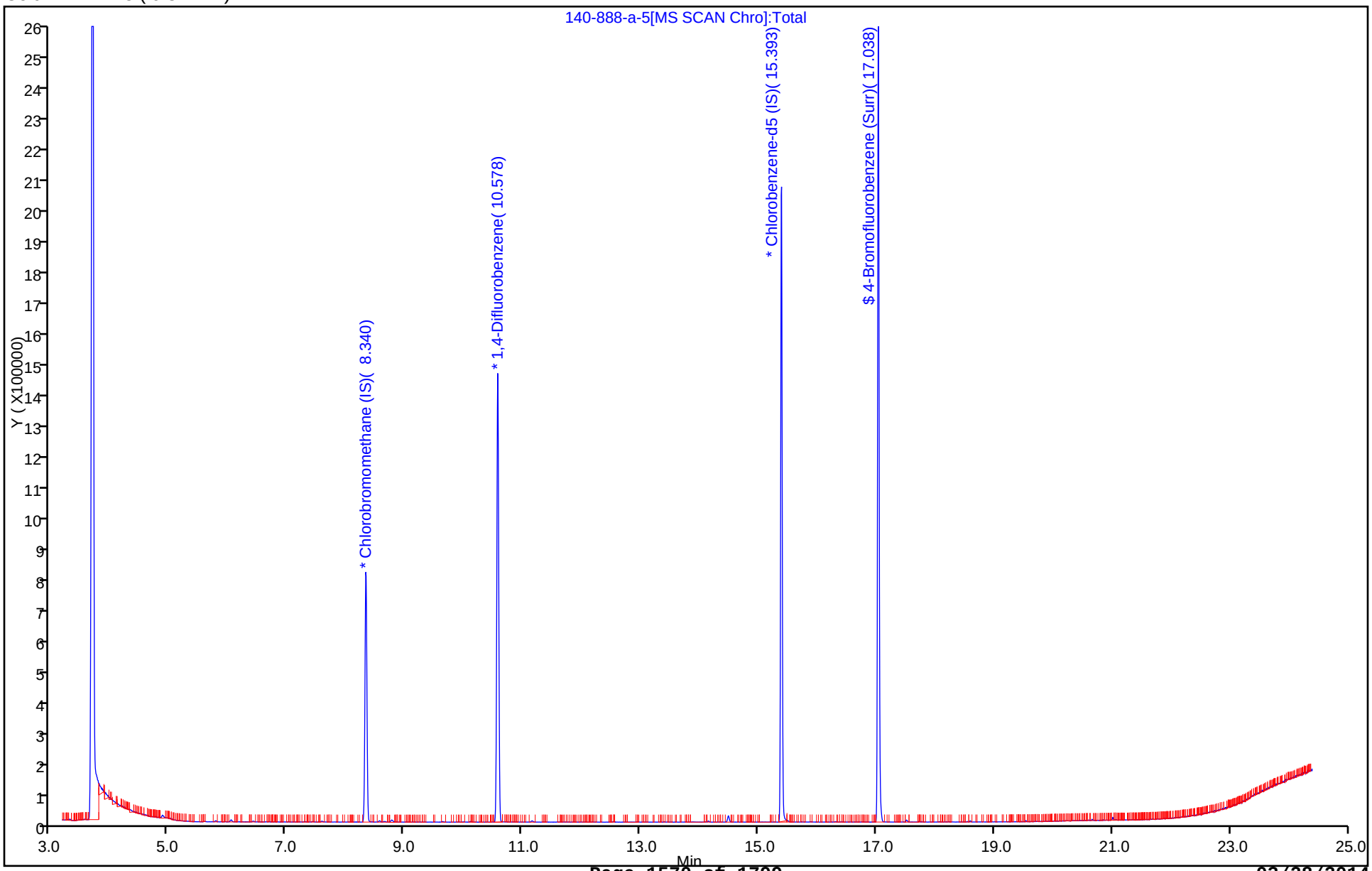
Report Date: 17-Feb-2014 07:35:45 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D

Injection Date:	16-Feb-2014 17:22:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-888-A-5	Lab Sample ID:	140-888-5	Worklist Smp#:	7
Client ID:	09672				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-889-1

SDG No.:

Client Sample ID: 10010 | Lab Sample ID: 140-889-13

Matrix: Air | Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-889-1

SDG No.:

Client Sample ID: 10010 | Lab Sample ID: 140-889-13

Matrix: Air | Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-889-1

SDG No.:

Client Sample ID: 10010 | Lab Sample ID: 140-889-13

Matrix: Air | Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1

SDG No.:

Client Sample ID: 10010 Lab Sample ID: 140-889-13

Matrix: Air Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D
Lims ID: 140-889-A-13 Lab Sample ID: 140-889-13
Client ID: 10010
Sample Type: Client
Inject. Date: 17-Feb-2014 15:49:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10010
Misc. Info.: J021714,TO15,,140-0000443-004
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 20-Feb-2014 14:56:29 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: wilesd Date: 20-Feb-2014 14:46:02

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234959	4.00	
*	2 1,4-Difluorobenzene	114	11.568	11.570	-0.002	98	1131499	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	955572	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	769817	4.04	
	13 Butane	43	4.526	4.523	0.003	60	9068	0.0678	
	19 2-Methylbutane	43	5.419	5.421	-0.002	65	3030	0.0274	
	28 2-Methyl-2-propanol	59	6.522	6.492	0.030	48	3776	0.0267	
	31 Methylene Chloride	84	6.780	6.777	0.003	74	4068	0.0571	
	44 Tetrahydrofuran	42	9.706	9.833	-0.127	18	7552	0.0920	
	47 n-Butanol	31	10.987	10.968	0.019	8	2135	0.0520	
	62 4-Methyl-2-pentanone (MIBK)	43	13.413	13.399	0.014	59	5415	0.0282	

Report Date: 20-Feb-2014 14:56:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D

Injection Date:	17-Feb-2014 15:49:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-889-A-13	Lab Sample ID:	140-889-13	Worklist Smp#:	4
Client ID:	10010				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 | Lab Sample ID: 140-890-1

Matrix: Air | Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09994 Lab Sample ID: 140-890-1

Matrix: Air Lab File ID: 140-890-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D				
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1		
Client ID:	09994				
Sample Type:	Client				
Inject. Date:	18-Feb-2014 22:23:30	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09994				
Misc. Info.:	E021814,TO155,,140-0000446-014				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 09:17:15	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 09:17:15		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.350	0.0	82	249824	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1244065	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1091614	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	934270	3.91	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	5258	0.0357	

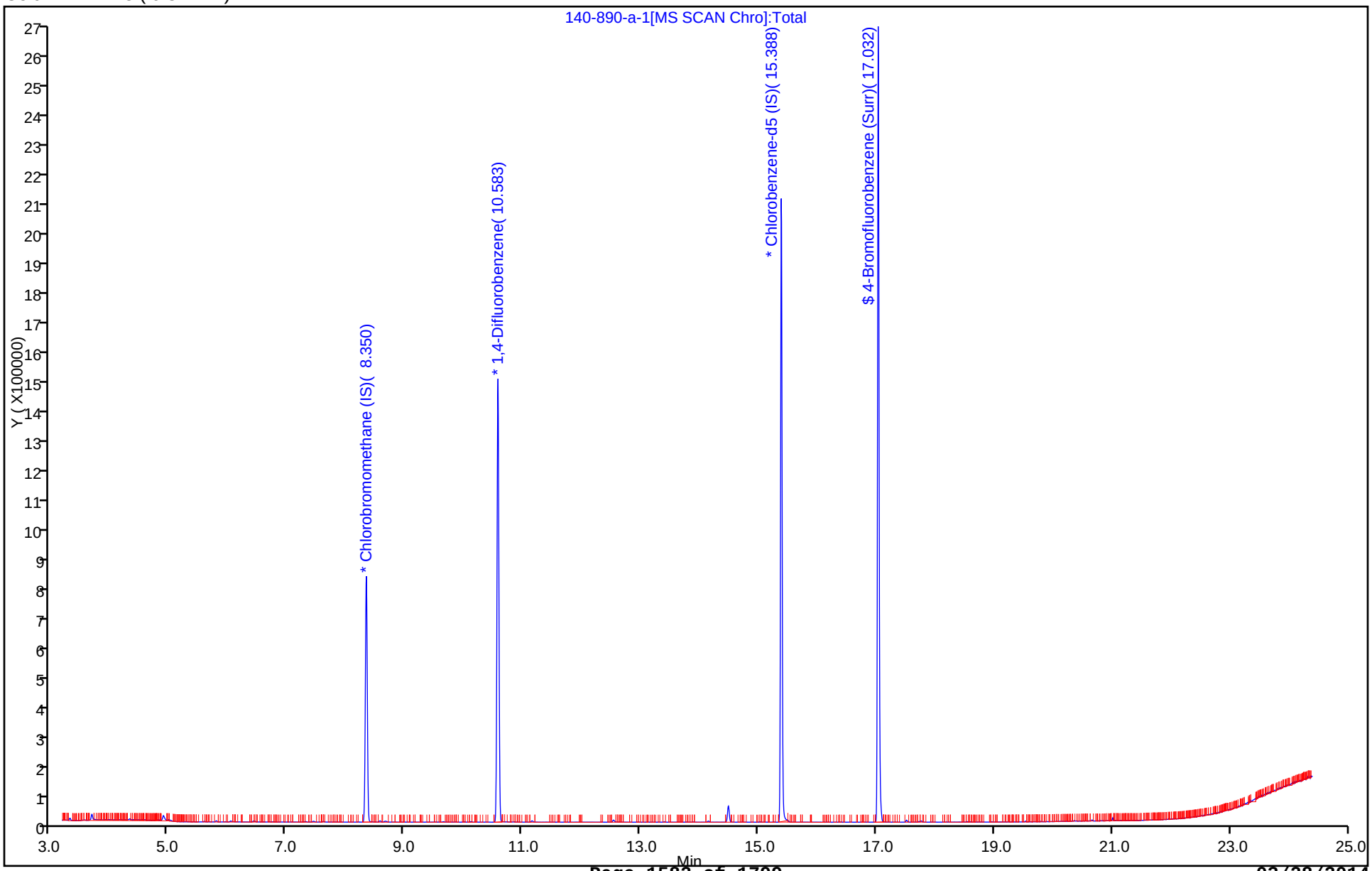
Report Date: 19-Feb-2014 09:17:16 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D

Injection Date:	18-Feb-2014 22:23:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-1	Lab Sample ID:	140-890-1	Worklist Smp#:	14
Client ID:	09994				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 | Lab Sample ID: 140-890-5

Matrix: Air | Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10829 Lab Sample ID: 140-890-5

Matrix: Air Lab File ID: 140-890-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D				
Lims ID:	140-890-A-5	Lab Sample ID:	140-890-5		
Client ID:	10829				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 01:25:30	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10829				
Misc. Info.:	E021814,TO155,,140-0000446-018				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 09:19:47	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 09:19:47		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	233449	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1163887	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1024194	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	887509	3.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	69	3548	0.0257	

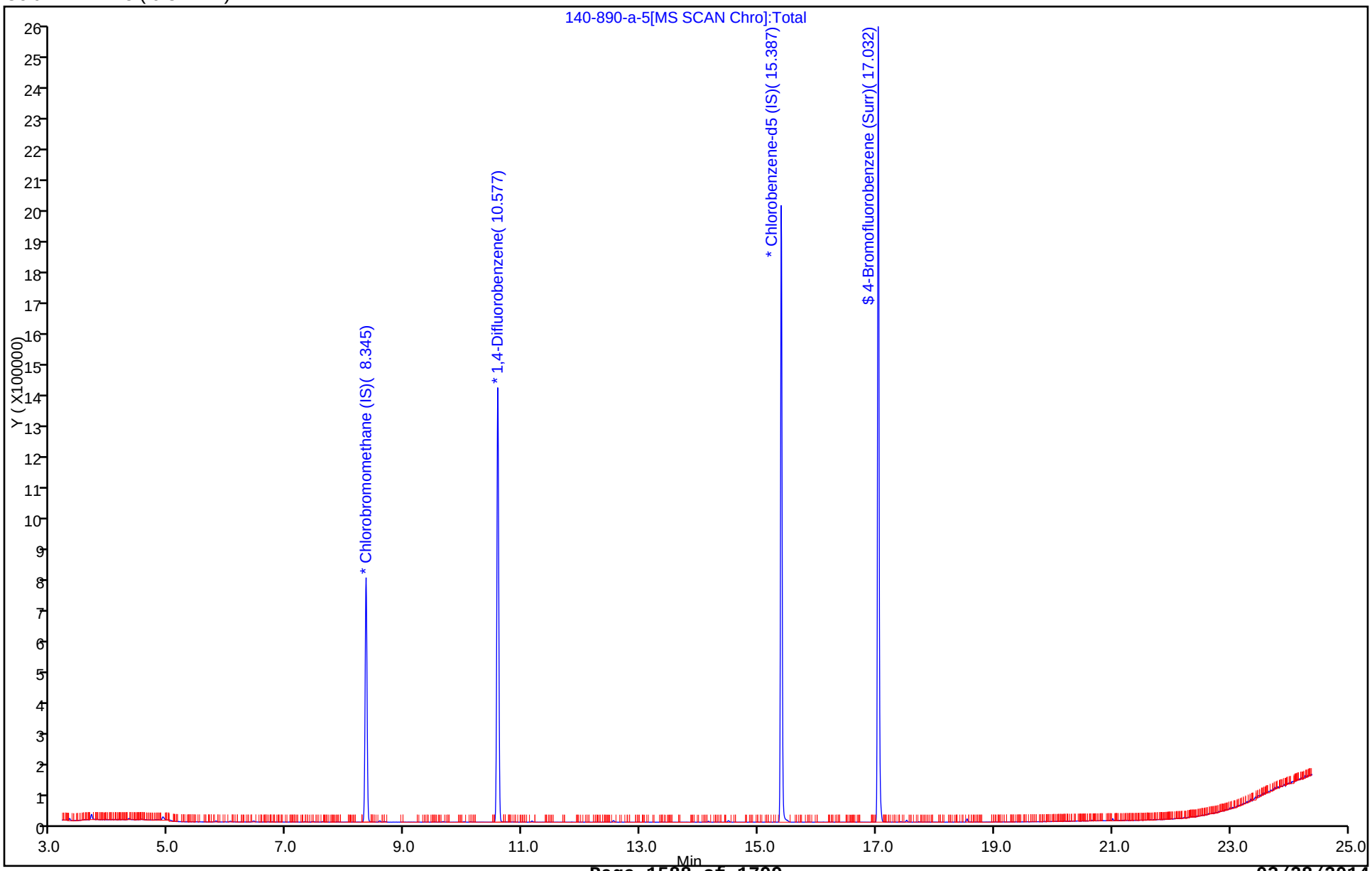
Report Date: 19-Feb-2014 09:19:48 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D

Injection Date:	19-Feb-2014 01:25:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-5	Lab Sample ID:	140-890-5	Worklist Smp#:	18
Client ID:	10829				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 | Lab Sample ID: 140-890-6

Matrix: Air | Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 851 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 Lab Sample ID: 140-890-6

Matrix: Air Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09516 Lab Sample ID: 140-890-6

Matrix: Air Lab File ID: 140-890-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D				
Lims ID:	140-890-A-6	Lab Sample ID:	140-890-6		
Client ID:	09516				
Sample Type:	Client				
Inject. Date:	17-Feb-2014 16:45:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09516				
Misc. Info.:	J021714,TO15,,140-0000443-005				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 13:48:28	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK031				
First Level Reviewer: barlozhetskayaa		Date:	19-Feb-2014 13:48:28		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.008	90	239088	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.570	-0.008	98	1194187	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	1002280	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	791782	3.96	
13 Butane	43	4.515	4.523	-0.008	70	3953	0.0290	
28 2-Methyl-2-propanol	59	6.511	6.492	0.019	52	4198	0.0292	
44 Tetrahydrofuran	42	9.701	9.833	-0.132	6	7078	0.0847	
47 n-Butanol	31	10.992	10.968	0.024	57	1793	0.0414	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	73	12686	0.0626	

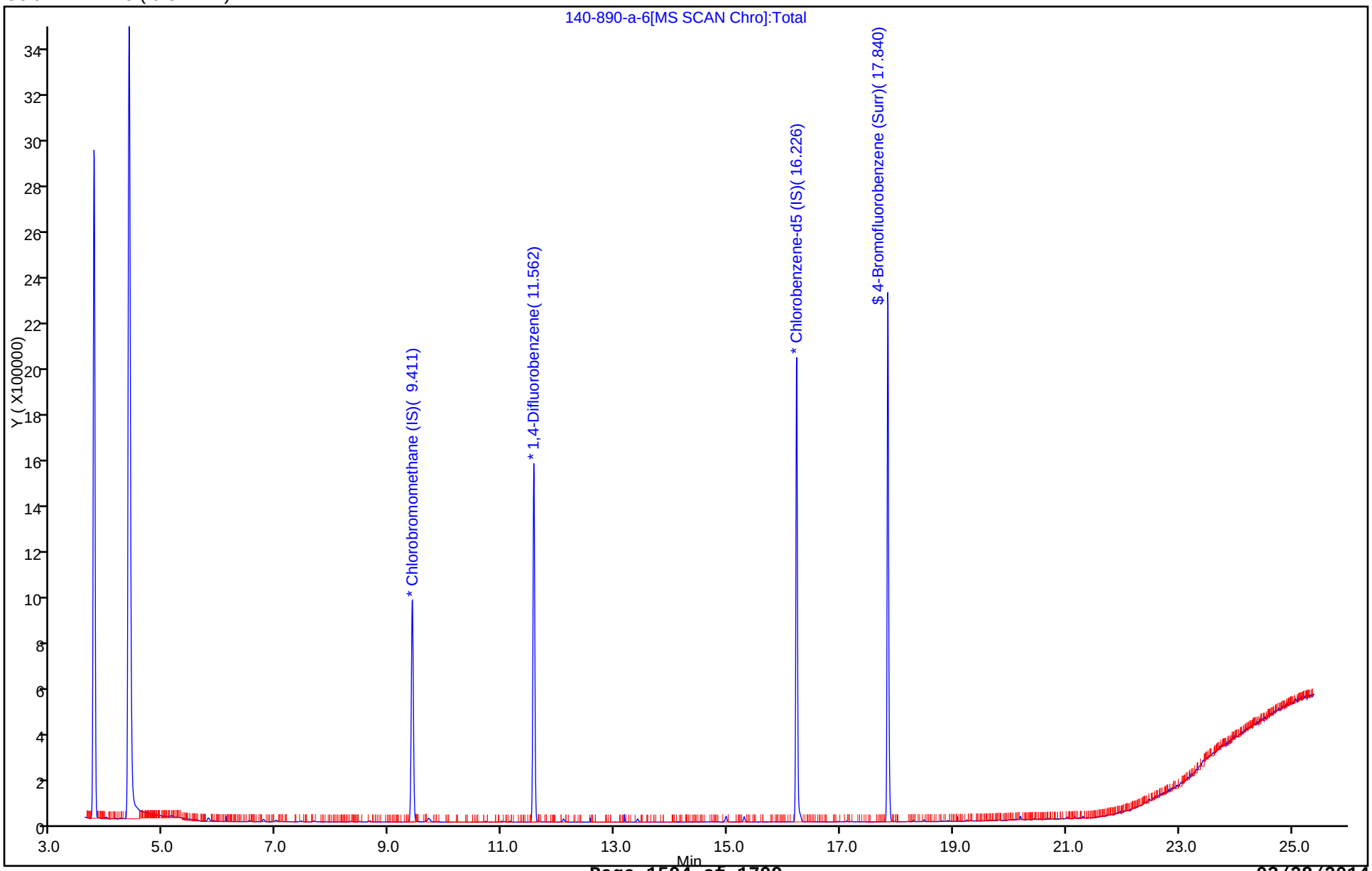
Report Date: 19-Feb-2014 13:48:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D

Injection Date:	17-Feb-2014 16:45:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-890-A-6	Lab Sample ID:	140-890-6	Worklist Smp#:	5
Client ID:	09516				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 | Lab Sample ID: 140-890-9

Matrix: Air | Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 854 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09514 Lab Sample ID: 140-890-9

Matrix: Air Lab File ID: 140-890-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D
Lims ID: 140-890-A-9 Lab Sample ID: 140-890-9
Client ID: 09514
Sample Type: Client
Inject. Date: 19-Feb-2014 03:40:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09514
Misc. Info.: E021814,TO155,,140-0000446-021
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 09:21:06 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	227568	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1144242	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	998758	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	872183	3.99	
7 Propene	41	3.319	3.314	0.005	89	1956	0.0342	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	4362	0.0322	

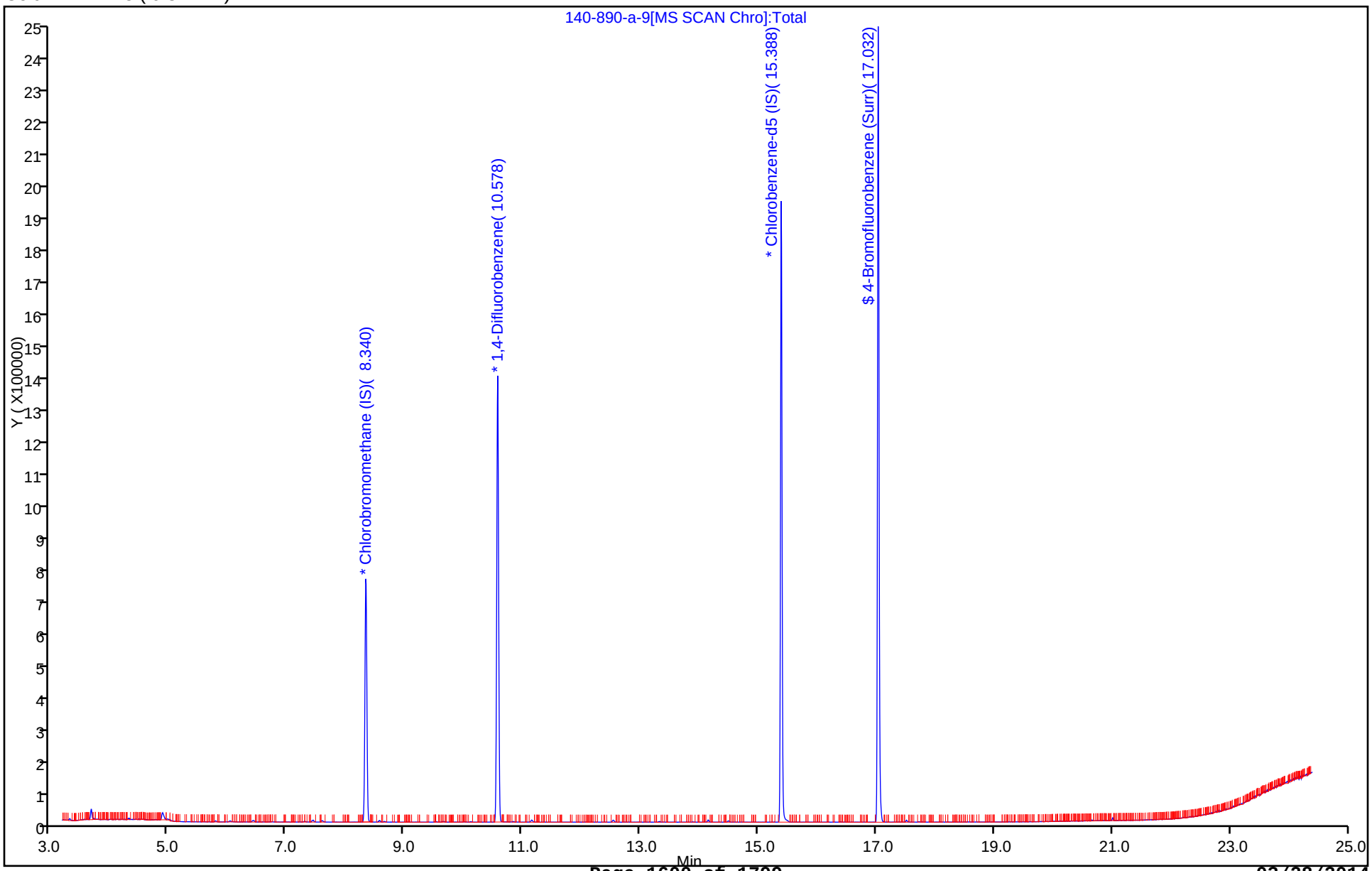
Report Date: 19-Feb-2014 09:21:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D

Injection Date:	19-Feb-2014 03:40:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-890-A-9	Lab Sample ID:	140-890-9	Worklist Smp#:	21
Client ID:	09514				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 | Lab Sample ID: 140-890-10

Matrix: Air | Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10716 Lab Sample ID: 140-890-10

Matrix: Air Lab File ID: 140-890-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D				
Lims ID:	140-890-A-10	Lab Sample ID:	140-890-10		
Client ID:	10716				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 00:31:30	ALS Bottle#:	7	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10716				
Misc. Info.:	J021814,TO15,,140-0000448-016				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 07:51:30	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 07:51:30		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.411	-0.002	93	257619	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.568	-0.002	97	1197722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.227	-0.002	93	1016182	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.841	-0.002	81	802603	3.96	

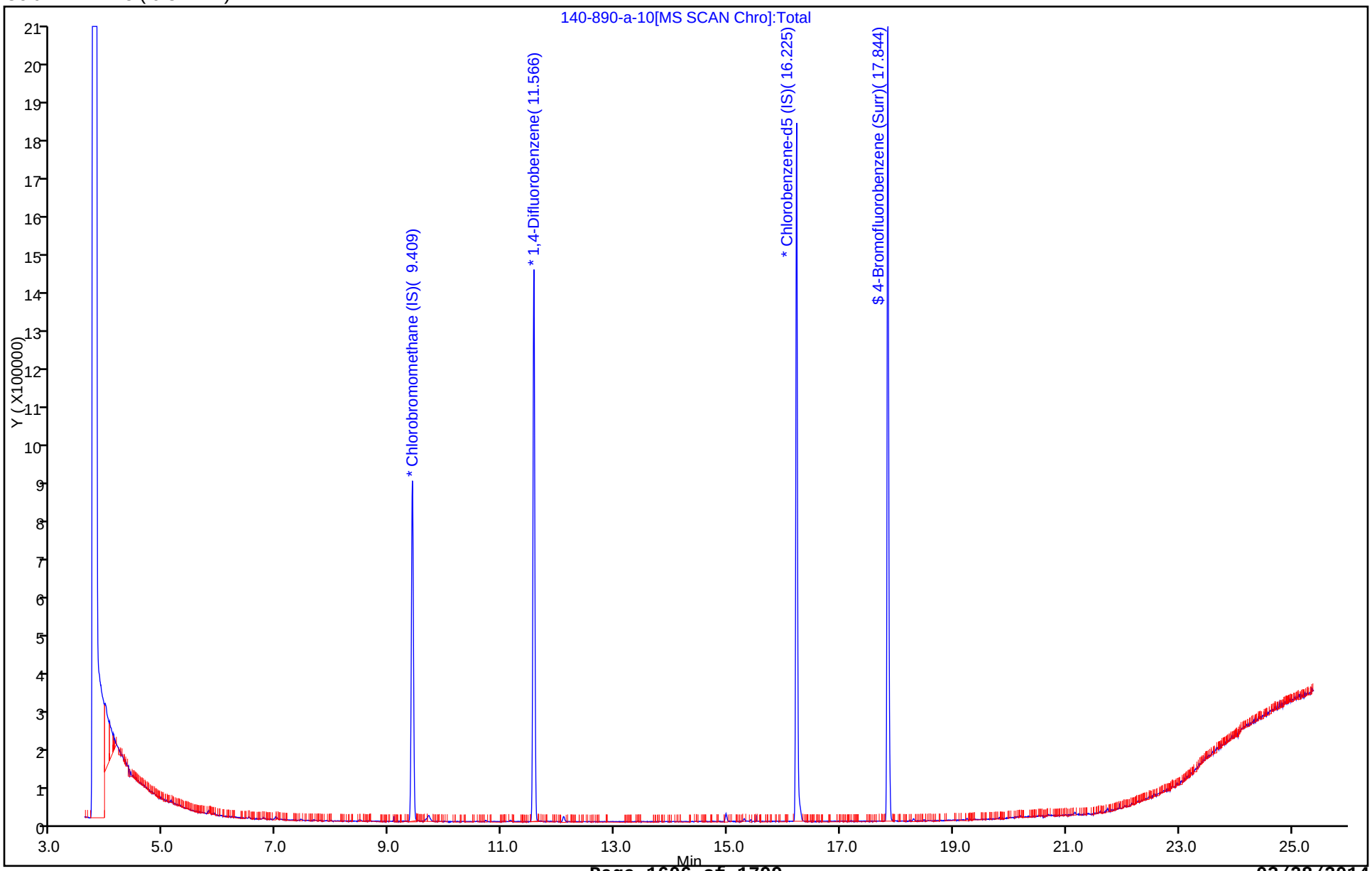
Report Date: 19-Feb-2014 07:51:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D

Injection Date:	19-Feb-2014 00:31:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-10	Lab Sample ID:	140-890-10	Worklist Smp#:	16
Client ID:	10716				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.065		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 | Lab Sample ID: 140-890-11

Matrix: Air | Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D
Lims ID: 140-890-A-11 Lab Sample ID: 140-890-11
Client ID: 10332
Sample Type: Client
Inject. Date: 19-Feb-2014 01:27:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10332
Misc. Info.: J021814,TO15,,140-0000448-017
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:54:41 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.408	9.411	-0.003	94	253024	4.00	
* 2 1,4-Difluorobenzene	114	11.565	11.568	-0.003	97	1223072	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	93	1007290	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	81	787777	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.397	0.002	85	11803	0.0568	
73 Tetrachloroethene	129	15.406	15.409	-0.003	73	5816	0.0649	

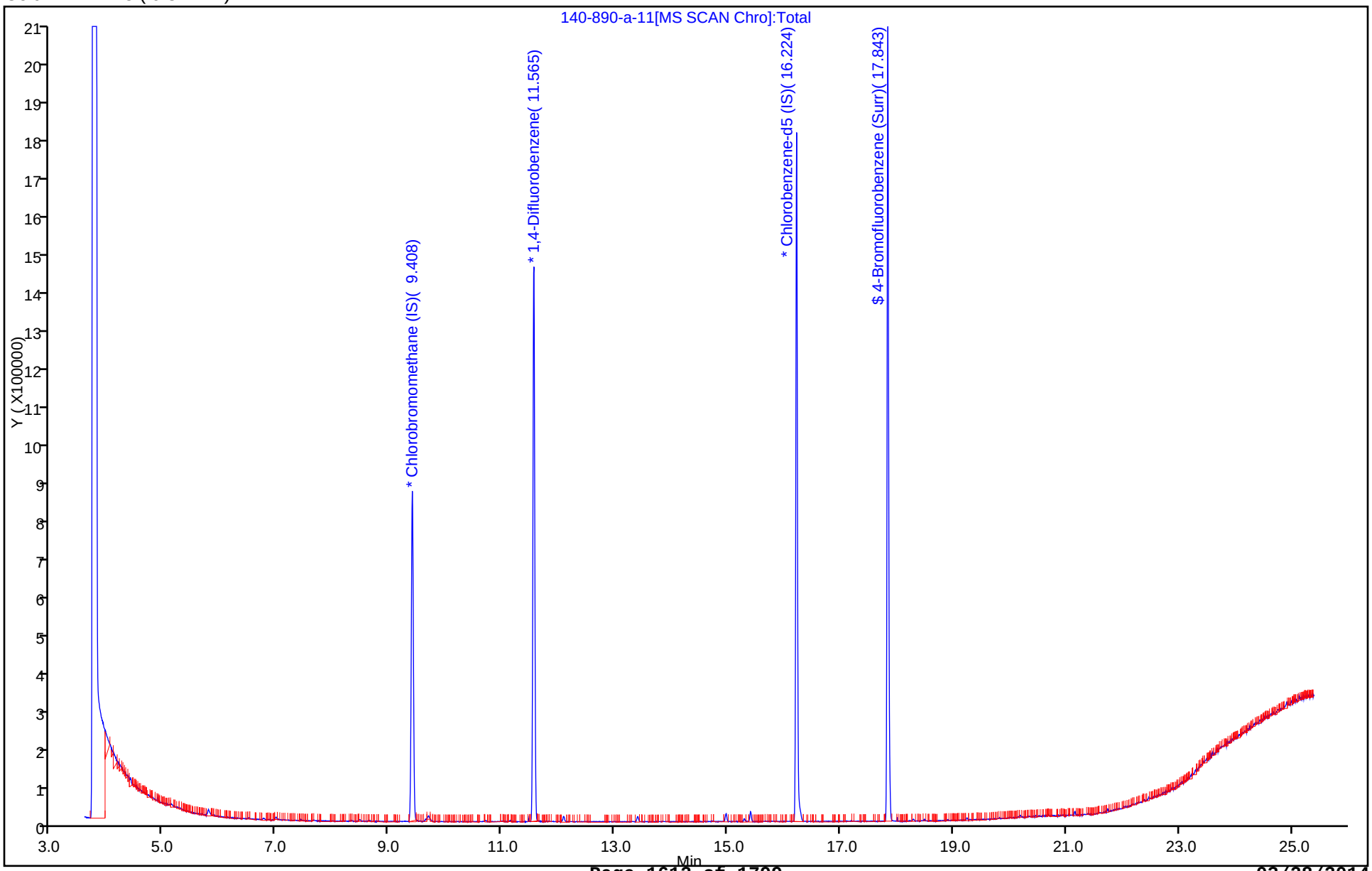
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11	Worklist Smp#:	17
Client ID:	10332				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



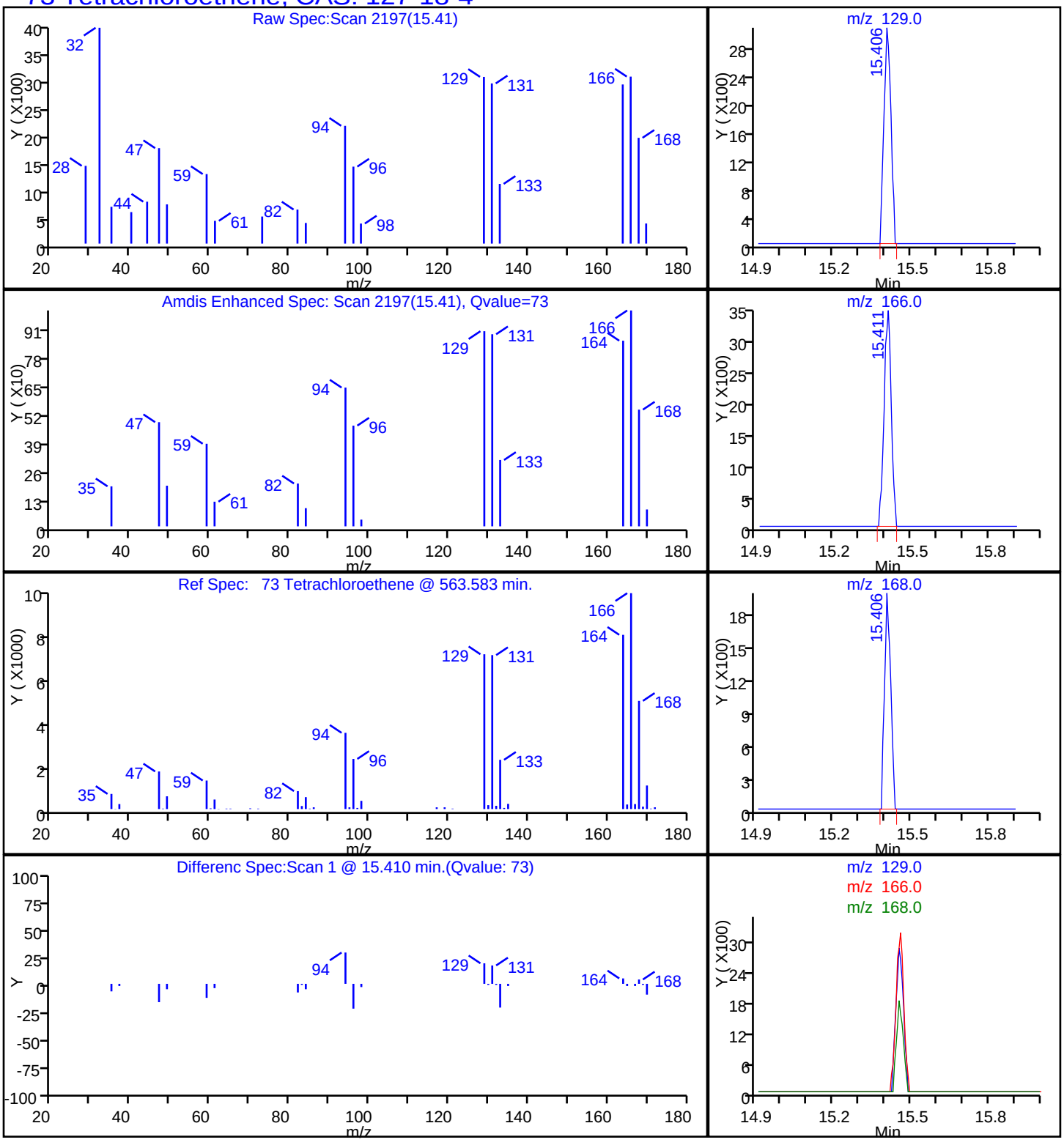
Report Date: 19-Feb-2014 07:54:42 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date:	19-Feb-2014 01:27:30	Instrument ID:	MJ		
Lims ID:	140-890-A-11	Lab Sample ID:	140-890-11		
Client ID:	10332				
Operator ID:	7126	ALS Bottle#:	8	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

73 Tetrachloroethene, CAS: 127-18-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 | Lab Sample ID: 140-890-13

Matrix: Air | Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 09675 Lab Sample ID: 140-890-13

Matrix: Air Lab File ID: 140-890-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 19-Feb-2014 07:57:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D
Lims ID: 140-890-A-13 Lab Sample ID: 140-890-13
Client ID: 09675
Sample Type: Client
Inject. Date: 19-Feb-2014 03:16:30 ALS Bottle#: 10 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09675
Misc. Info.: J021814,TO15,,140-0000448-019
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 19-Feb-2014 07:57:17 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:57:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.412	9.411	0.001	94	254679	4.00	
*	2 1,4-Difluorobenzene	114	11.564	11.568	-0.004	97	1217733	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.222	16.227	-0.005	93	1047481	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.841	17.841	0.0	82	841261	4.03	
	9 Chloromethane	52	4.231	4.231	0.0	47	2838	0.0864	
	47 n-Butanol	31	10.988	10.966	0.022	58	1764	0.0399	
	62 4-Methyl-2-pentanone (MIBK)	43	13.409	13.397	0.012	86	8200	0.0397	

Report Date: 19-Feb-2014 07:57:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D

Injection Date:	19-Feb-2014 03:16:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-13	Lab Sample ID:	140-890-13	Worklist Smp#:	19
Client ID:	09675				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 | Lab Sample ID: 140-890-14

Matrix: Air | Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) | Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 856 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10005 Lab Sample ID: 140-890-14

Matrix: Air Lab File ID: 140-890-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D				
Lims ID:	140-890-A-14	Lab Sample ID:	140-890-14		
Client ID:	10005				
Sample Type:	Client				
Inject. Date:	19-Feb-2014 04:11:30	ALS Bottle#:	11	Worklist Smp#:	20
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10005				
Misc. Info.:	J021814,TO15,,140-0000448-020				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	19-Feb-2014 07:57:39	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: tajh		Date:	19-Feb-2014 07:57:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.411	-0.008	93	249140	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.568	-0.008	97	1242271	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	92	1006844	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	85	658099	3.28	
62 4-Methyl-2-pentanone (MIBK)	43	13.405	13.397	0.008	76	8084	0.0383	

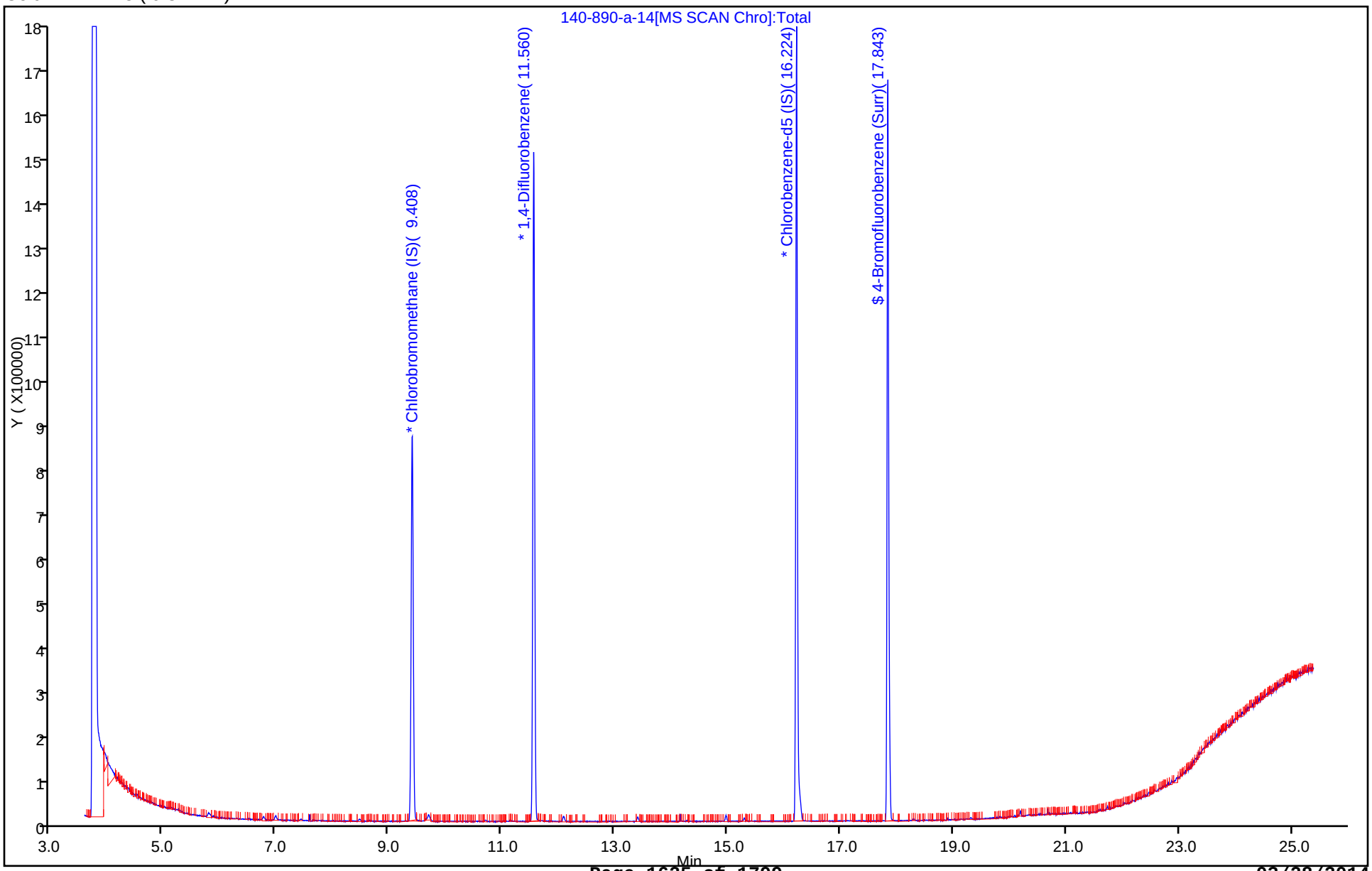
Report Date: 19-Feb-2014 07:57:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D

Injection Date:	19-Feb-2014 04:11:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-890-A-14	Lab Sample ID:	140-890-14	Worklist Smp#:	20
Client ID:	10005				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 | Lab Sample ID: 140-935-1

Matrix: Air | Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 | Lab Sample ID: 140-935-1

Matrix: Air | Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 | Lab Sample ID: 140-935-1

Matrix: Air | Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10967 Lab Sample ID: 140-935-1

Matrix: Air Lab File ID: 140-935-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D
Lims ID: 140-935-A-1 Lab Sample ID: 140-935-1
Client ID: 10967
Sample Type: Client
Inject. Date: 24-Feb-2014 11:45:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10967
Misc. Info.: E022414,TO155,,140-0000468-005
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:38:50 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	301761	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1556647	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	93	1352626	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1157772	3.91	
7 Propene	41	3.320	3.314	0.006	76	5200	0.0685	
14 Butane	43	3.778	3.778	0.0	88	9000	0.0624	
19 2-Methylbutane	43	4.544	4.544	0.0	70	2143	0.0203	
23 Acetone	58	4.894	4.883	0.011	96	35359	0.7736	
25 Pentane	72	4.970	4.970	0.0	82	646	0.0326	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	93	4553	0.0922	
40 Hexane	56	7.596	7.596	0.0	49	2010	0.0250	
53 Isooctane	57	10.783	10.793	-0.010	72	15783	0.0326	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	79	4982	0.0270	
70 n-Octane	85	14.104	14.104	0.0	67	2144	0.0166	

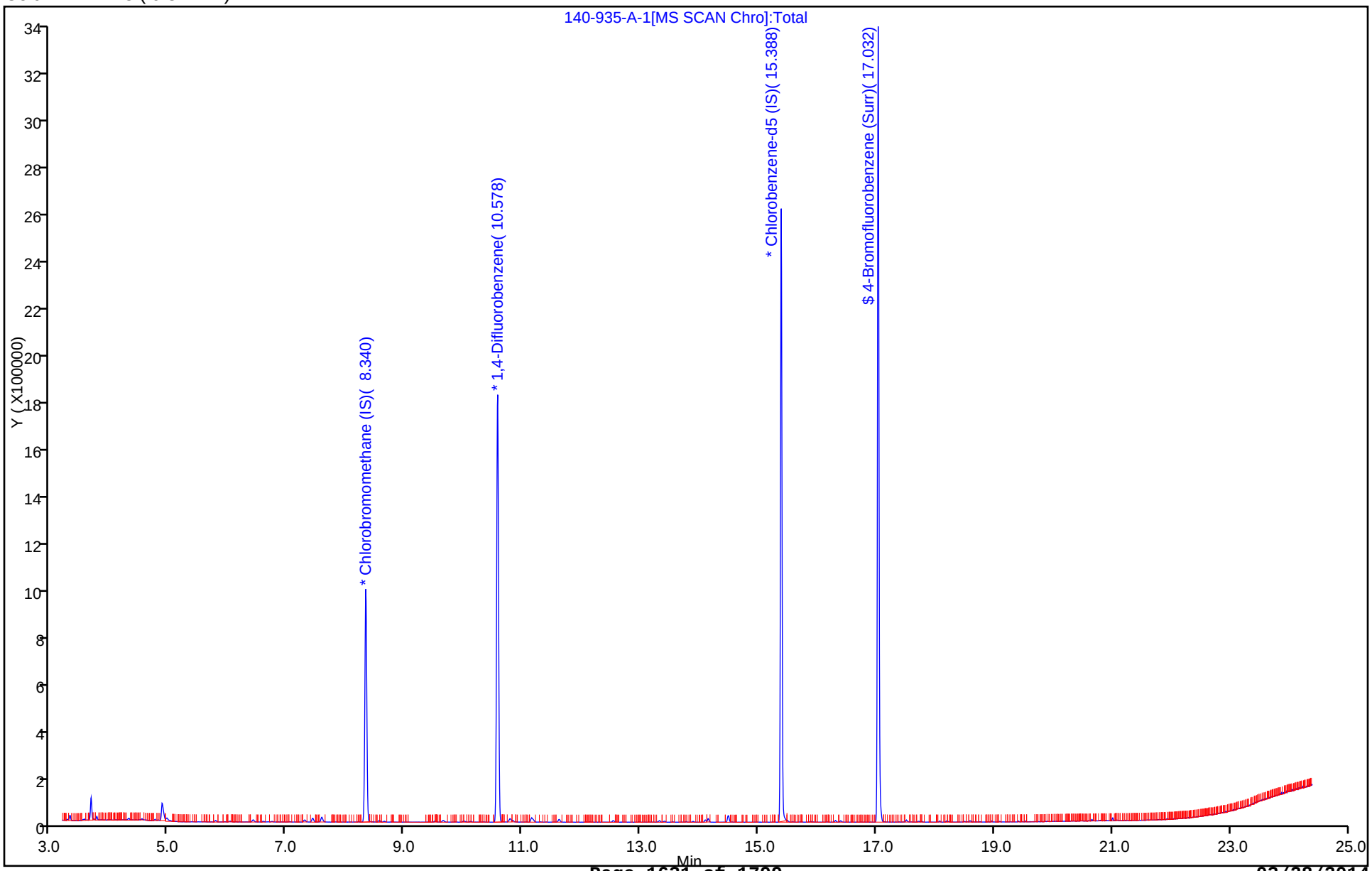
Report Date: 25-Feb-2014 08:38:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D

Injection Date:	24-Feb-2014 11:45:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-1	Lab Sample ID:	140-935-1	Worklist Smp#:	5
Client ID:	10967				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 | Lab Sample ID: 140-935-4

Matrix: Air | Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 | Lab Sample ID: 140-935-4

Matrix: Air | Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 Lab Sample ID: 140-935-4

Matrix: Air Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10188 Lab Sample ID: 140-935-4

Matrix: Air Lab File ID: 140-935-A-4.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D
Lims ID: 140-935-A-4 Lab Sample ID: 140-935-4
Client ID: 10188
Sample Type: Client
Inject. Date: 24-Feb-2014 14:03:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10188
Misc. Info.: E022414,TO155,,140-0000468-008
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:38:50 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:40:57

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	268913	4.00	
*	2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1351618	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1197176	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1046768	3.99	
	7 Propene	41	3.319	3.314	0.005	85	2145	0.0317	
	62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	82	4043	0.0252	

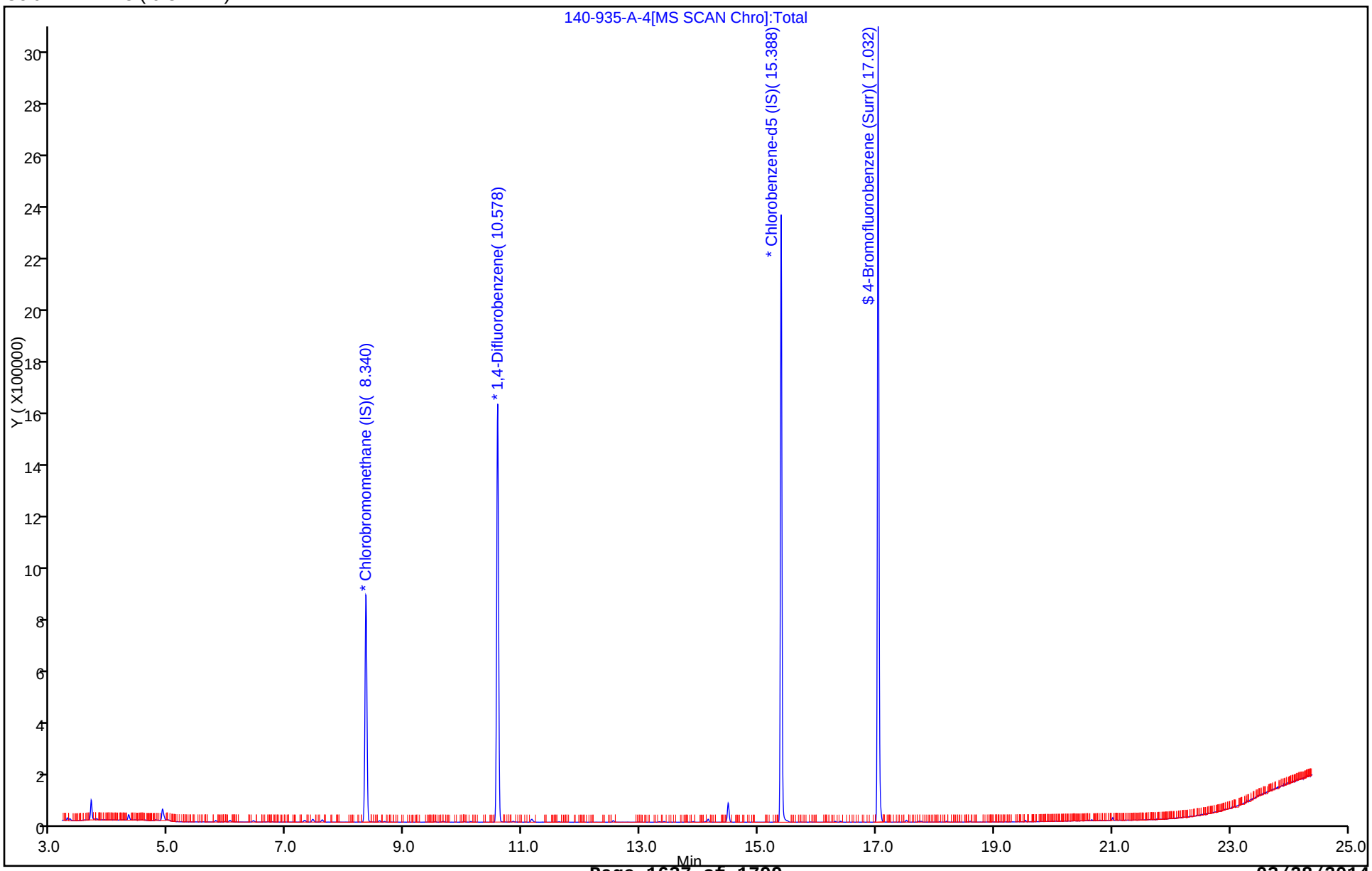
Report Date: 25-Feb-2014 08:40:58 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D

Injection Date:	24-Feb-2014 14:03:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-4	Lab Sample ID:	140-935-4	Worklist Smp#:	8
Client ID:	10188				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 | Lab Sample ID: 140-935-6

Matrix: Air | Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 | Lab Sample ID: 140-935-6

Matrix: Air | Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 | Lab Sample ID: 140-935-6

Matrix: Air | Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1

SDG No.:

Client Sample ID: 10401 Lab Sample ID: 140-935-6

Matrix: Air Lab File ID: 140-935-A-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

Report Date: 25-Feb-2014 08:41:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D
Lims ID: 140-935-A-6 Lab Sample ID: 140-935-6
Client ID: 10401
Sample Type: Client
Inject. Date: 24-Feb-2014 15:34:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10401
Misc. Info.: E022414,TO155,,140-0000468-010
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:41:49 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:41:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	270190	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1379161	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1193335	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1038922	3.98	
7 Propene	41	3.319	3.314	0.005	77	4590	0.0675	
14 Butane	43	3.778	3.778	0.0	80	8380	0.0649	
19 2-Methylbutane	43	4.549	4.544	0.005	67	2389	0.0252	
23 Acetone	58	4.889	4.883	0.006	98	41196	1.01	
25 Pentane	72	4.964	4.970	-0.006	90	627	0.0353	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	95	5392	0.1219	
40 Hexane	56	7.590	7.596	-0.006	46	1928	0.0268	
54 n-Heptane	71	11.187	11.187	0.0	50	2531	0.0241	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	84	6326	0.0387	
70 n-Octane	85	14.099	14.104	-0.005	67	2149	0.0189	

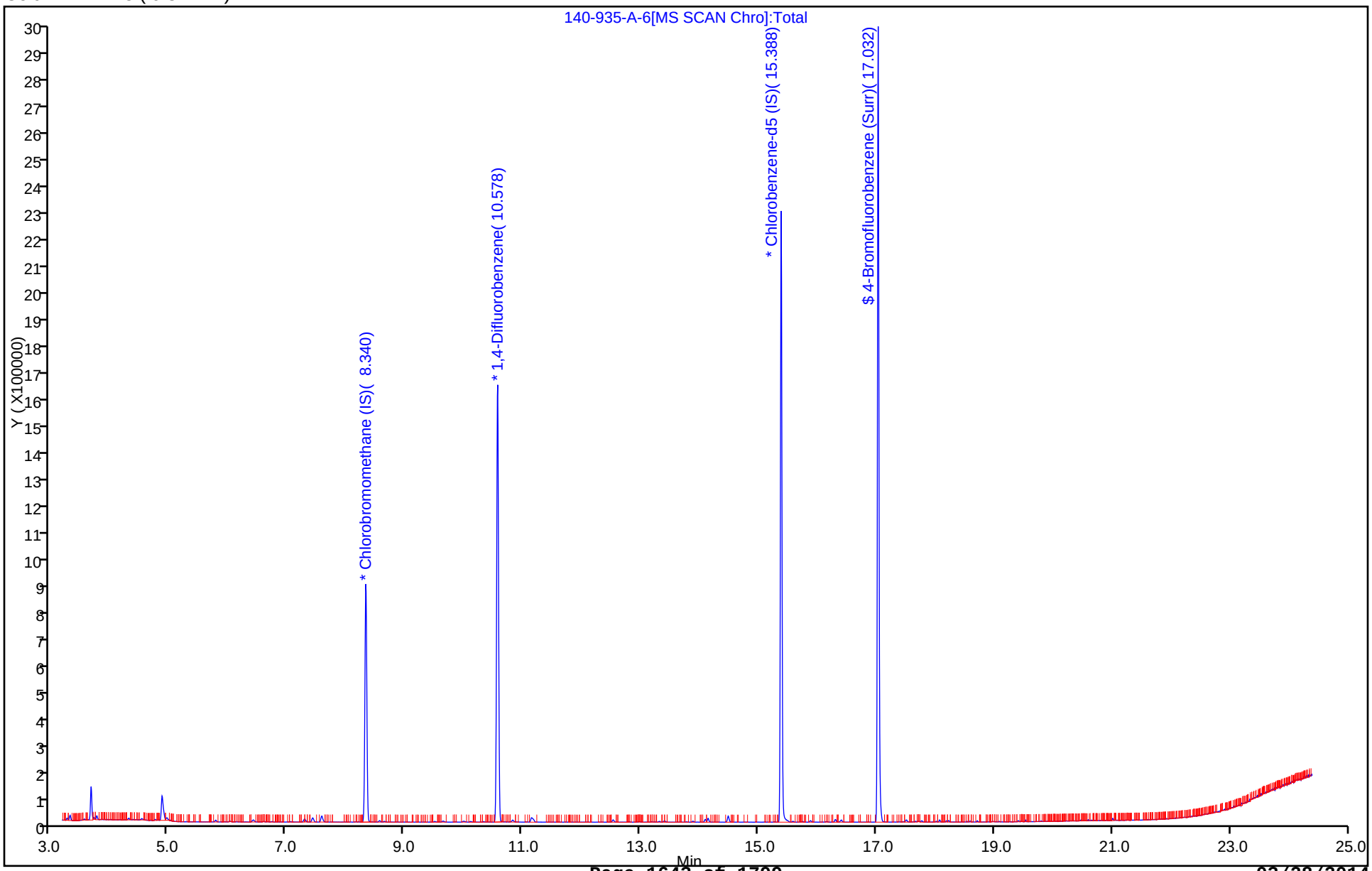
Report Date: 25-Feb-2014 08:41:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D

Injection Date:	24-Feb-2014 15:34:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-935-A-6	Lab Sample ID:	140-935-6	Worklist Smp#:	10
Client ID:	10401				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 | Lab Sample ID: 140-941-5

Matrix: Air | Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10207 Lab Sample ID: 140-941-5

Matrix: Air Lab File ID: 140-941-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D				
Lims ID:	140-941-A-5	Lab Sample ID:	140-941-5		
Client ID:	10207				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 03:40:30	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10207				
Misc. Info.:	J022414,TO15,,140-0000467-017				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 07:36:10	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 07:36:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.400	9.403	-0.003	92	219634	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.560	-0.002	97	1060786	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.216	16.219	-0.003	93	889822	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.833	0.002	82	699453	3.94	
13 Butane	43	4.527	4.519	0.008	61	4722	0.0378	
62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.389	0.008	84	12867	0.0714	

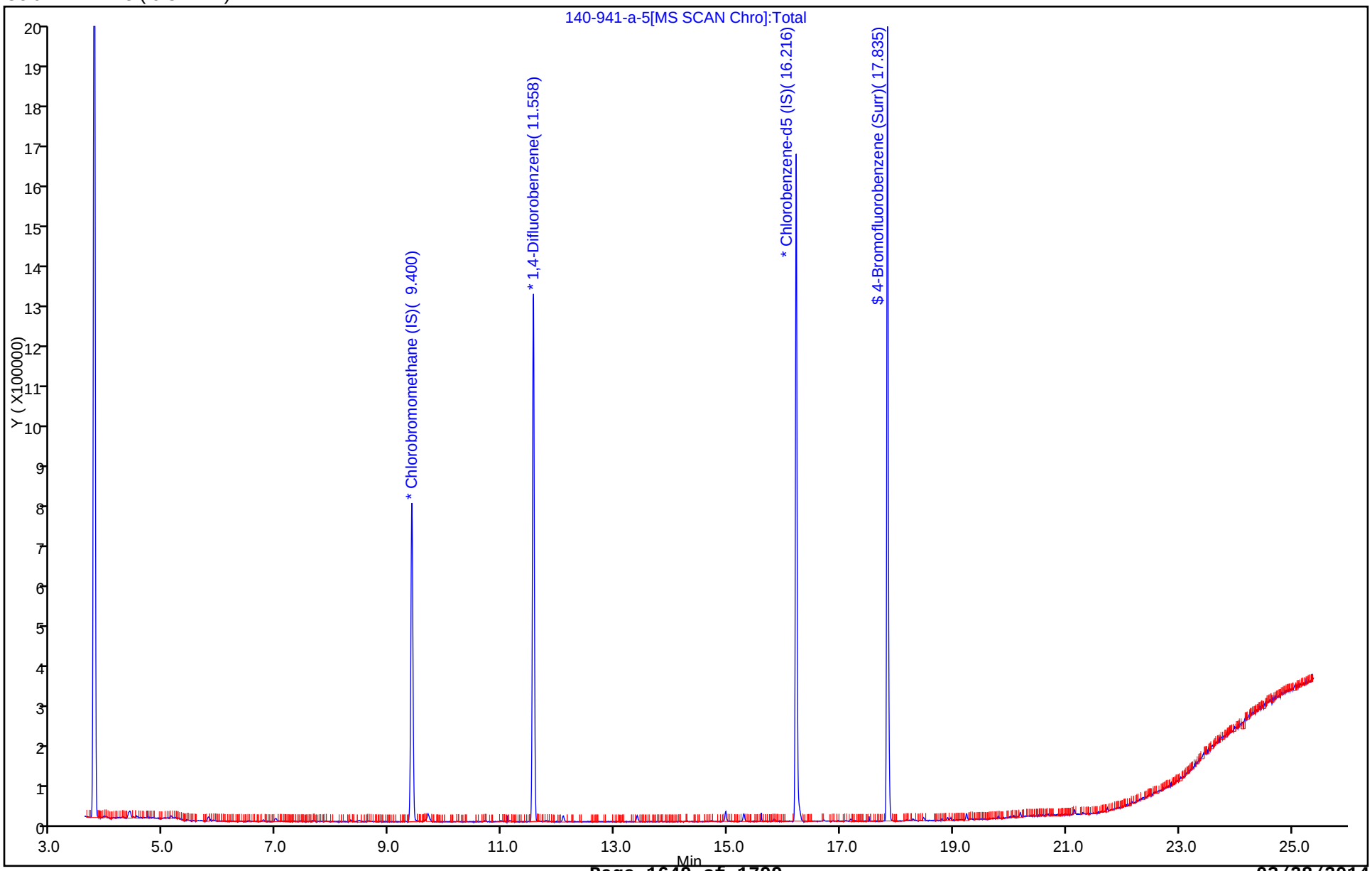
Report Date: 25-Feb-2014 07:36:17 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D

Injection Date:	25-Feb-2014 03:40:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-5	Lab Sample ID:	140-941-5	Worklist Smp#:	17
Client ID:	10207				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 | Lab Sample ID: 140-941-6

Matrix: Air | Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 | Lab Sample ID: 140-941-6

Matrix: Air | Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 | Lab Sample ID: 140-941-6

Matrix: Air | Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10513 Lab Sample ID: 140-941-6

Matrix: Air Lab File ID: 140-941-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D				
Lims ID:	140-941-A-6	Lab Sample ID:	140-941-6		
Client ID:	10513				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 04:37:30	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10513				
Misc. Info.:	J022414,TO15,,140-0000467-018				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 07:36:10	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 07:36:27		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	216371	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.560	-0.004	95	971711	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	94	754923	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	81	573569	3.81	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	48	4534	0.0275	

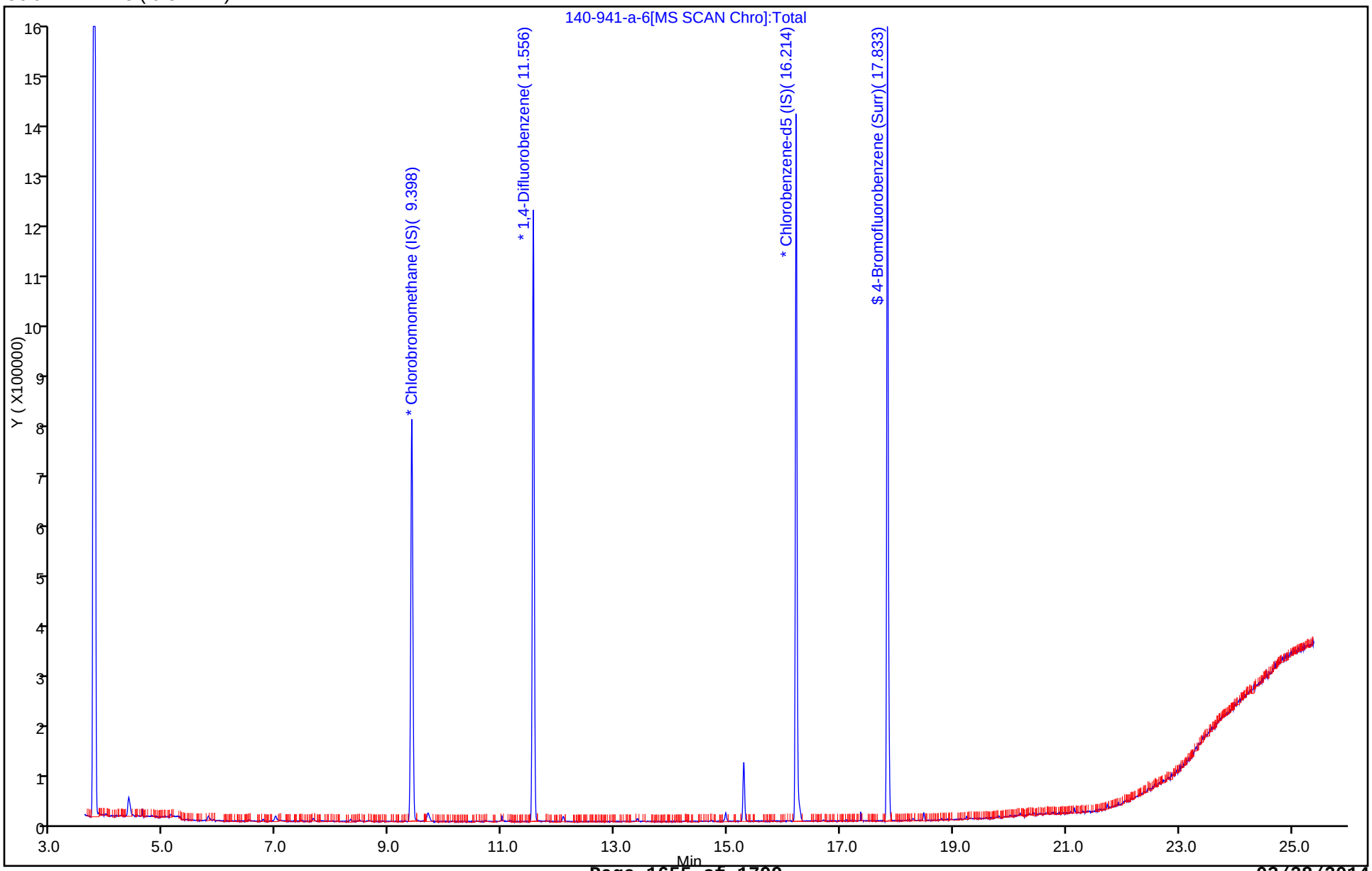
Report Date: 25-Feb-2014 07:36:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D

Injection Date:	25-Feb-2014 04:37:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-6	Lab Sample ID:	140-941-6	Worklist Smp#:	18
Client ID:	10513				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 | Lab Sample ID: 140-941-9

Matrix: Air | Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 | Lab Sample ID: 140-941-9

Matrix: Air | Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 | Lab Sample ID: 140-941-9

Matrix: Air | Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 882 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10852 Lab Sample ID: 140-941-9

Matrix: Air Lab File ID: 140-941-a-9.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 05:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D
Lims ID: 140-941-A-9 Lab Sample ID: 140-941-9
Client ID: 10852
Sample Type: Client
Inject. Date: 25-Feb-2014 05:31:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10852
Misc. Info.: J022414,TO15,,140-0000467-019
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 07:36:10 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 07:36:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	222619	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.560	-0.005	95	1087148	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.219	-0.005	94	939678	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	82	745194	3.97	
13 Butane	43	4.524	4.519	0.005	81	8459	0.0667	
19 2-Methylbutane	43	5.423	5.417	0.006	62	2601	0.0249	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	84	14779	0.0801	
69 2-Hexanone	58	14.708	14.697	0.011	51	3557	0.0500	

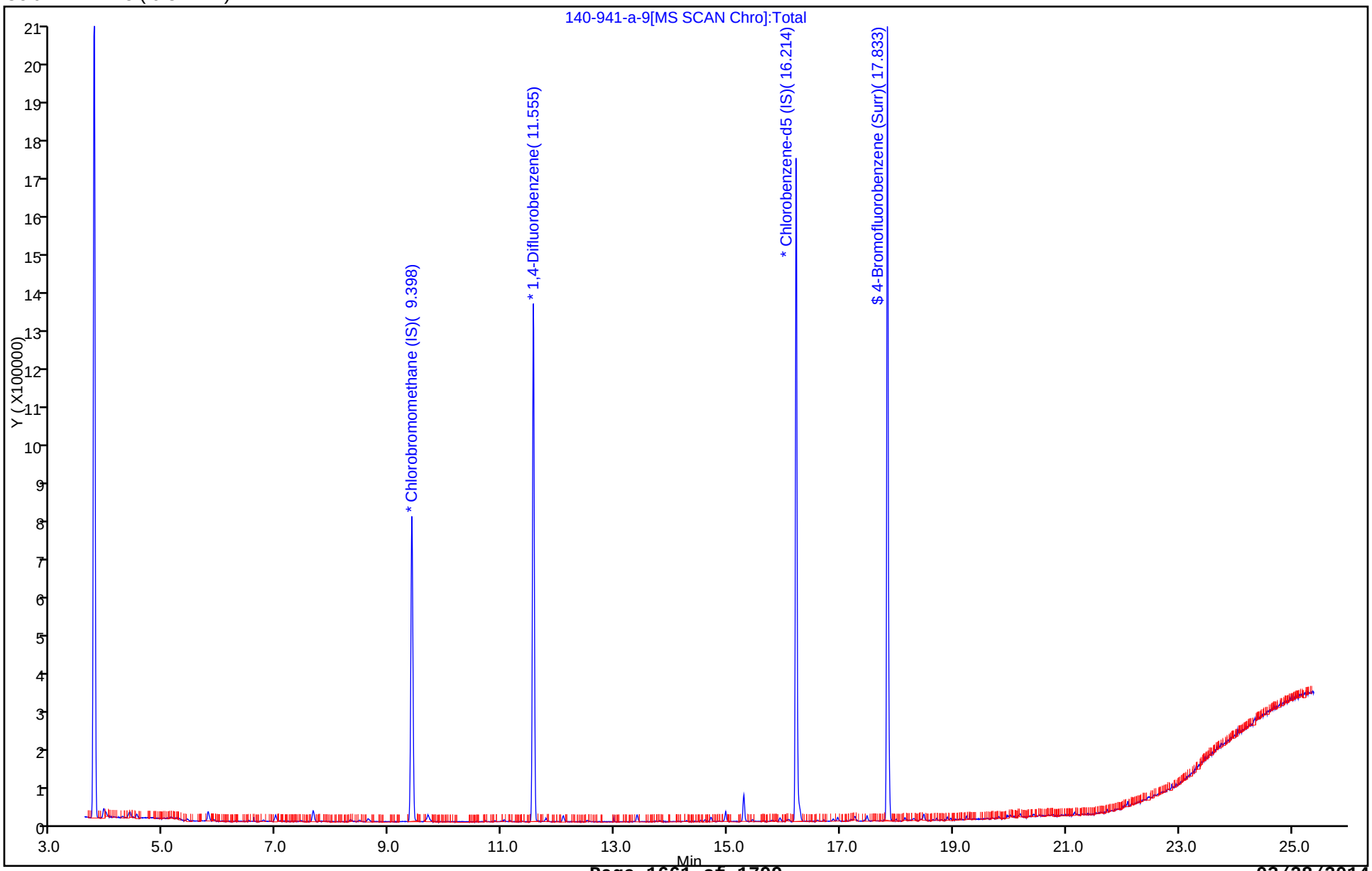
Report Date: 25-Feb-2014 07:36:39 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D

Injection Date:	25-Feb-2014 05:31:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-941-A-9	Lab Sample ID:	140-941-9	Worklist Smp#:	19
Client ID:	10852				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 | Lab Sample ID: 140-941-11

Matrix: Air | Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1

SDG No.:

Client Sample ID: 10092 Lab Sample ID: 140-941-11

Matrix: Air Lab File ID: 140-941-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D
Lims ID: 140-941-A-11 Lab Sample ID: 140-941-11
Client ID: 10092
Sample Type: Client
Inject. Date: 24-Feb-2014 21:04:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10092
Misc. Info.: E022414,TO155,,140-0000468-017
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:48:39 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:48:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	254148	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1274216	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	1104896	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	959304	3.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	4188	0.0277	

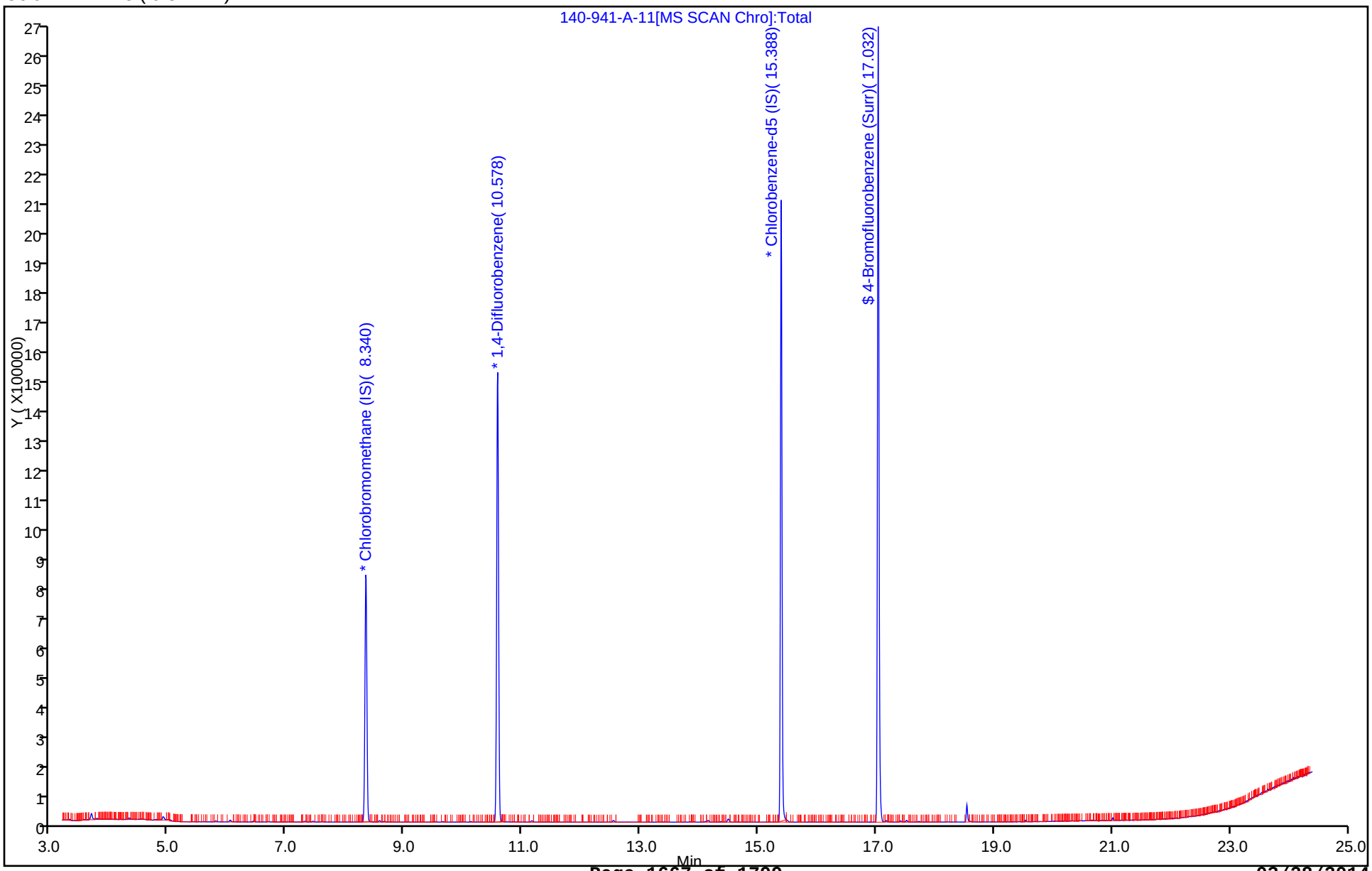
Report Date: 25-Feb-2014 08:48:40 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D

Injection Date:	24-Feb-2014 21:04:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-941-A-11	Lab Sample ID:	140-941-11	Worklist Smp#:	17
Client ID:	10092				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-946-1

SDG No.:

Client Sample ID: 09761 | Lab Sample ID: 140-946-11

Matrix: Air | Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-946-1

SDG No.:

Client Sample ID: 09761 | Lab Sample ID: 140-946-11

Matrix: Air | Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-946-1

SDG No.:

Client Sample ID: 09761 | Lab Sample ID: 140-946-11

Matrix: Air | Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 883 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1

SDG No.:

Client Sample ID: 09761 Lab Sample ID: 140-946-11

Matrix: Air Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D
Lims ID: 140-946-A-11 Lab Sample ID: 140-946-11
Client ID: 09761
Sample Type: Client
Inject. Date: 24-Feb-2014 11:00:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09761
Misc. Info.: E022414,TO155,,140-0000468-004
Operator ID: 7126 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:38:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:38:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	81	336893	4.00	
*	2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1714709	4.00	
*	3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	90	1479308	4.00	
$	4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	1244674	3.84	

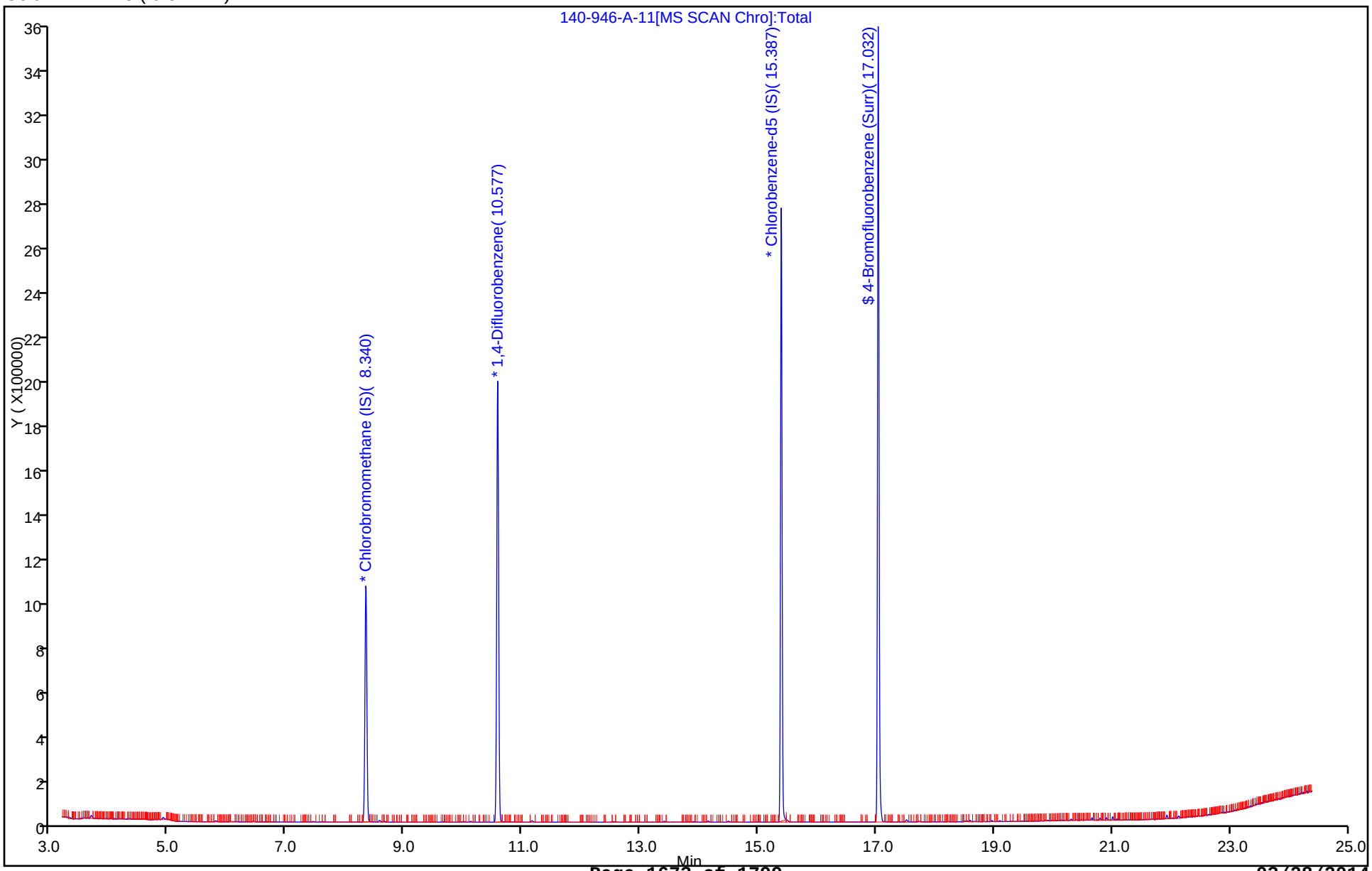
Report Date: 25-Feb-2014 08:38:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D

Injection Date:	24-Feb-2014 11:00:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-946-A-11	Lab Sample ID:	140-946-11	Worklist Smp#:	4
Client ID:	09761				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10187 | Lab Sample ID: 140-947-6

Matrix: Air | Lab File ID: 140-947-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10187 | Lab Sample ID: 140-947-6

Matrix: Air | Lab File ID: 140-947-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10187 | Lab Sample ID: 140-947-6

Matrix: Air | Lab File ID: 140-947-A-6.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 21:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1

SDG No.:

Client Sample ID: 10187 Lab Sample ID: 140-947-6

Matrix: Air Lab File ID: 140-947-A-6.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-6.D				
Lims ID:	140-947-A-6	Lab Sample ID:	140-947-6		
Client ID:	10187				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 21:18:30	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10187				
Misc. Info.:	G022414,TO15,140-0000469-009				
Operator ID:	403648	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 09:47:06	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 09:47:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.614	9.624	-0.010	77	547843	4.00	
* 2 1,4-Difluorobenzene	114	11.744	11.749	-0.005	93	2154650	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	85	1035215	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	94	377814	2.75	
62 4-Methyl-2-pentanone (MIBK)	43	13.626	13.599	0.027	79	4447	0.0209	

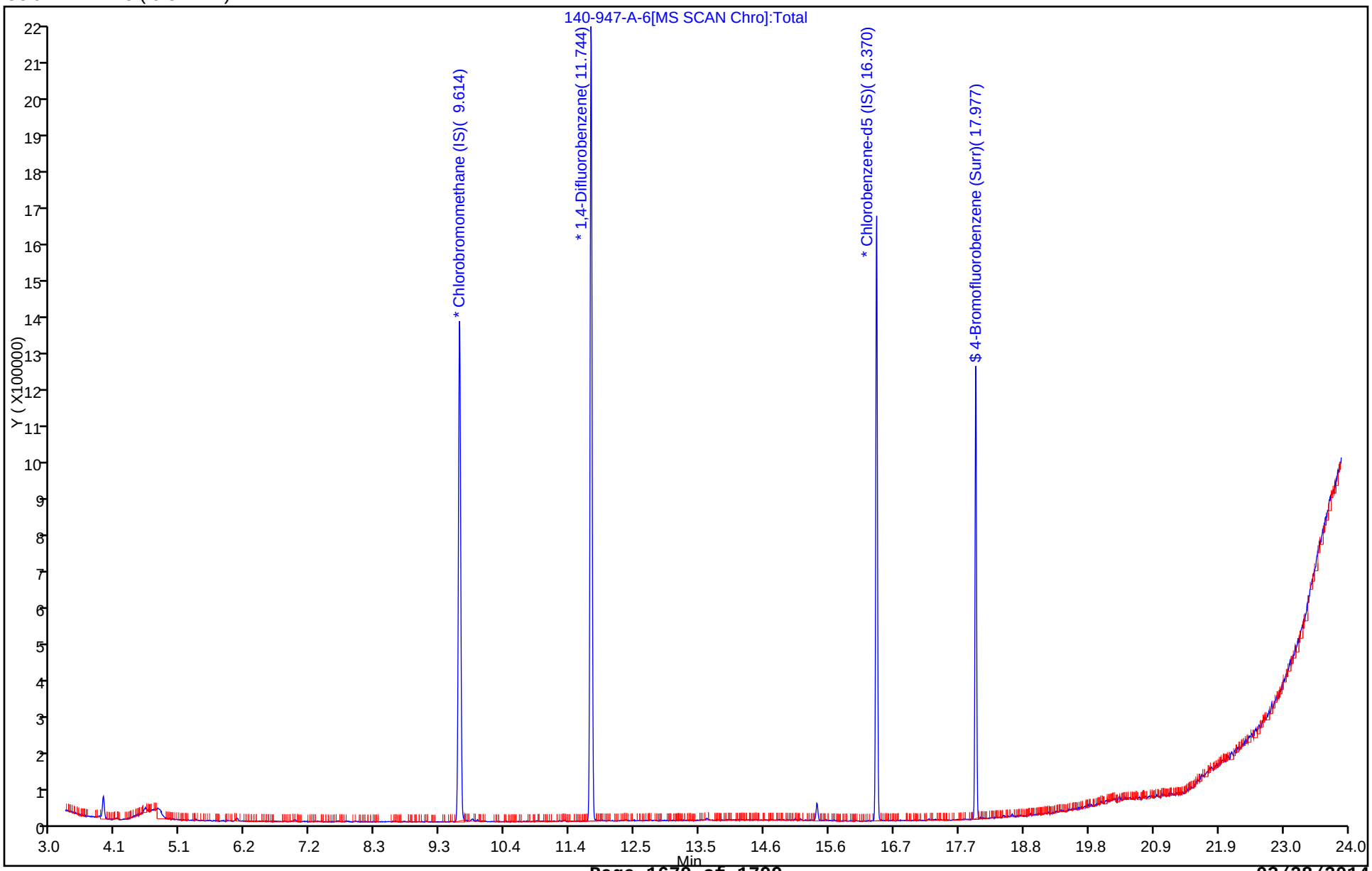
Report Date: 25-Feb-2014 09:47:07 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-6.D

Injection Date:	24-Feb-2014 21:18:30	Instrument ID:	MG	Operator ID:	403648
Lims ID:	140-947-A-6	Lab Sample ID:	140-947-6	Worklist Smp#:	9
Client ID:	10187				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 09509 | Lab Sample ID: 140-947-7

Matrix: Air | Lab File ID: 140-947-A-7.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 22:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 09509 | Lab Sample ID: 140-947-7

Matrix: Air | Lab File ID: 140-947-A-7.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 22:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 09509 | Lab Sample ID: 140-947-7

Matrix: Air | Lab File ID: 140-947-A-7.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/24/2014 22:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1

SDG No.:

Client Sample ID: 09509 Lab Sample ID: 140-947-7

Matrix: Air Lab File ID: 140-947-A-7.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 22:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-7.D				
Lims ID:	140-947-A-7	Lab Sample ID:	140-947-7		
Client ID:	09509				
Sample Type:	Client				
Inject. Date:	24-Feb-2014 22:13:30	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09509				
Misc. Info.:	G022414,TO15,140-0000469-010				
Operator ID:	403648	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 09:47:38	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 09:47:38		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.624	-0.005	77	581963	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.749	0.0	93	2399427	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	86	1134547	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	400815	2.67	
43 Chloroform	83	9.625	9.630	-0.005	15	5696	0.0154	

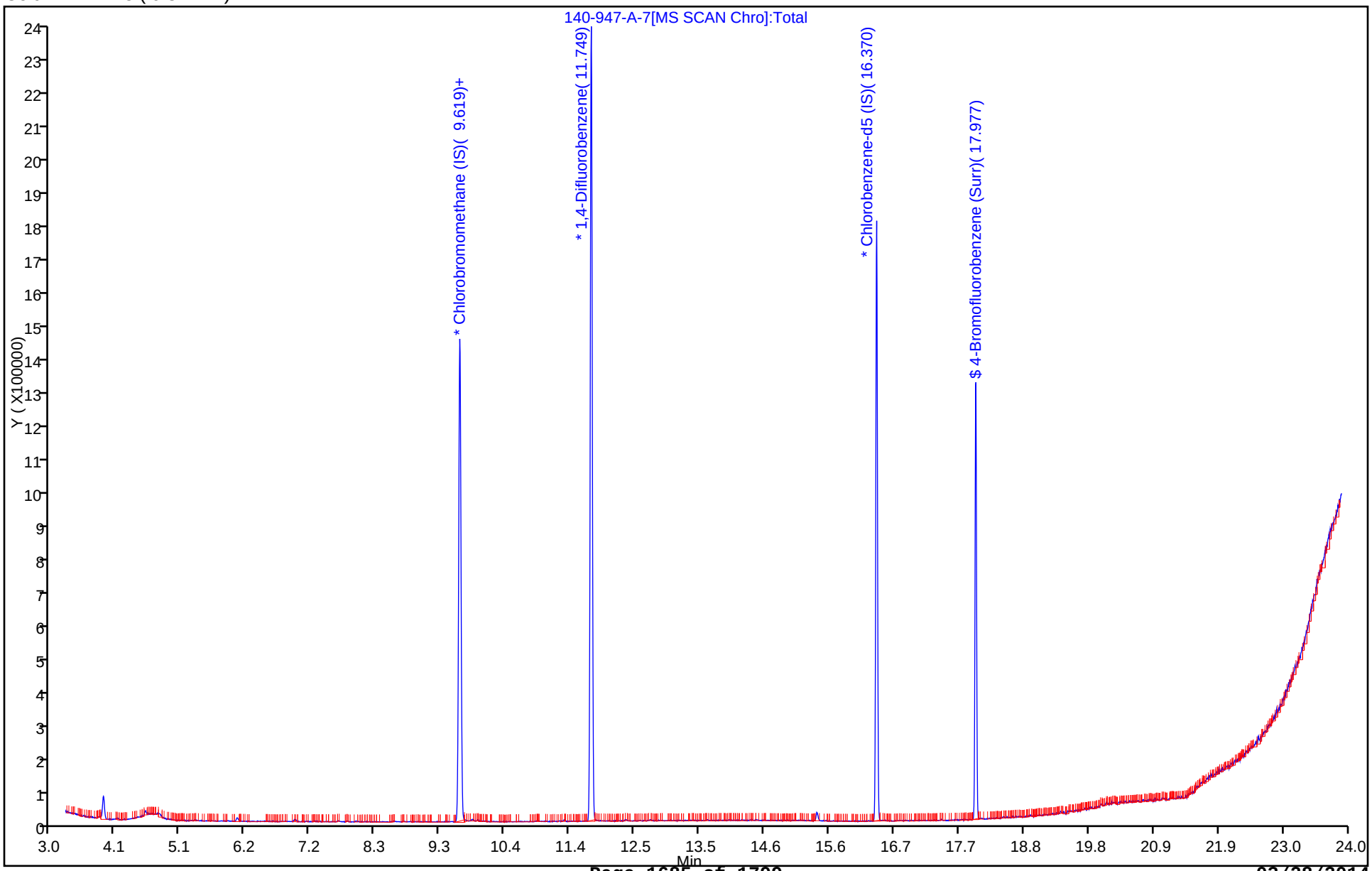
Report Date: 25-Feb-2014 09:47:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-7.D

Injection Date:	24-Feb-2014 22:13:30	Instrument ID:	MG	Operator ID:	403648
Lims ID:	140-947-A-7	Lab Sample ID:	140-947-7	Worklist Smp#:	10
Client ID:	09509				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10993 | Lab Sample ID: 140-947-9

Matrix: Air | Lab File ID: 140-947-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 00:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10993 | Lab Sample ID: 140-947-9

Matrix: Air | Lab File ID: 140-947-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 00:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10993 | Lab Sample ID: 140-947-9

Matrix: Air | Lab File ID: 140-947-A-9.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 00:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1

SDG No.:

Client Sample ID: 10993 Lab Sample ID: 140-947-9

Matrix: Air Lab File ID: 140-947-A-9.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 00:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-9.D
Lims ID: 140-947-A-9 Lab Sample ID: 140-947-9
Client ID: 10993
Sample Type: Client
Inject. Date: 25-Feb-2014 00:02:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10993
Misc. Info.: G022414,TO15,140-0000469-012
Operator ID: 403648 Instrument ID: MG

Method: \\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 09:48:48 Calib Date: 11-Feb-2014 18:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 09:48:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.624	-0.005	78	583929	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.749	0.0	94	2482270	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	86	1317442	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	94	535700	3.07	
48 Benzene	78	11.242	11.237	0.005	88	16316	0.0393	
73 Tetrachloroethene	129	15.545	15.551	-0.006	89	6189	0.0360	
112 Naphthalene	128	21.612	21.622	-0.010	73	4511	0.0394	

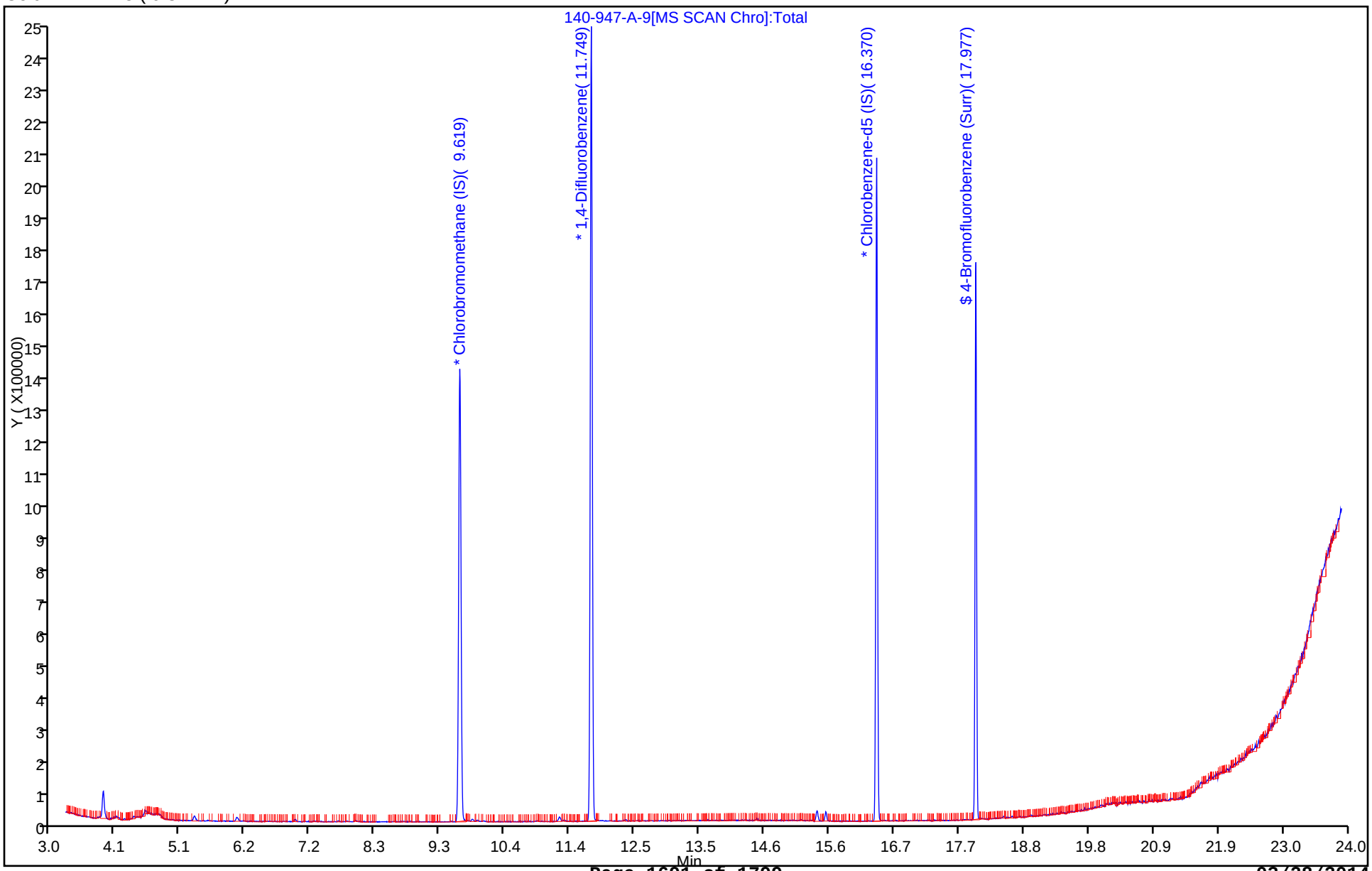
Report Date: 25-Feb-2014 09:48:49 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-9.D

Injection Date:	25-Feb-2014 00:02:30	Instrument ID:	MG	Operator ID:	403648
Lims ID:	140-947-A-9	Lab Sample ID:	140-947-9	Worklist Smp#:	12
Client ID:	10993				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10269 | Lab Sample ID: 140-947-14

Matrix: Air | Lab File ID: 140-947-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	0.097		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10269 | Lab Sample ID: 140-947-14

Matrix: Air | Lab File ID: 140-947-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-947-1

SDG No.:

Client Sample ID: 10269 | Lab Sample ID: 140-947-14

Matrix: Air | Lab File ID: 140-947-A-14.D

Analysis Method: TO 15 LL | Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 04:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 884 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1

SDG No.:

Client Sample ID: 10269 Lab Sample ID: 140-947-14

Matrix: Air Lab File ID: 140-947-A-14.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D				
Lims ID:	140-947-A-14	Lab Sample ID:	140-947-14		
Client ID:	10269				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 04:36:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10269				
Misc. Info.:	G022414,TO15,140-0000469-017				
Operator ID:	403648	Instrument ID:	MG		
Method:	\\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Feb-2014 09:52:42	Calib Date:	11-Feb-2014 18:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: tajh		Date:	25-Feb-2014 09:52:42		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.614	9.624	-0.010	77	578061	4.00	
* 2 1,4-Difluorobenzene	114	11.744	11.749	-0.005	93	2464369	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	85	1303948	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	94	529605	3.06	
43 Chloroform	83	9.614	9.630	-0.016	28	35471	0.0968	
62 4-Methyl-2-pentanone (MIBK)	43	13.609	13.599	0.010	94	18709	0.0767	
112 Naphthalene	128	21.579	21.622	-0.043	52	4609	0.0406	

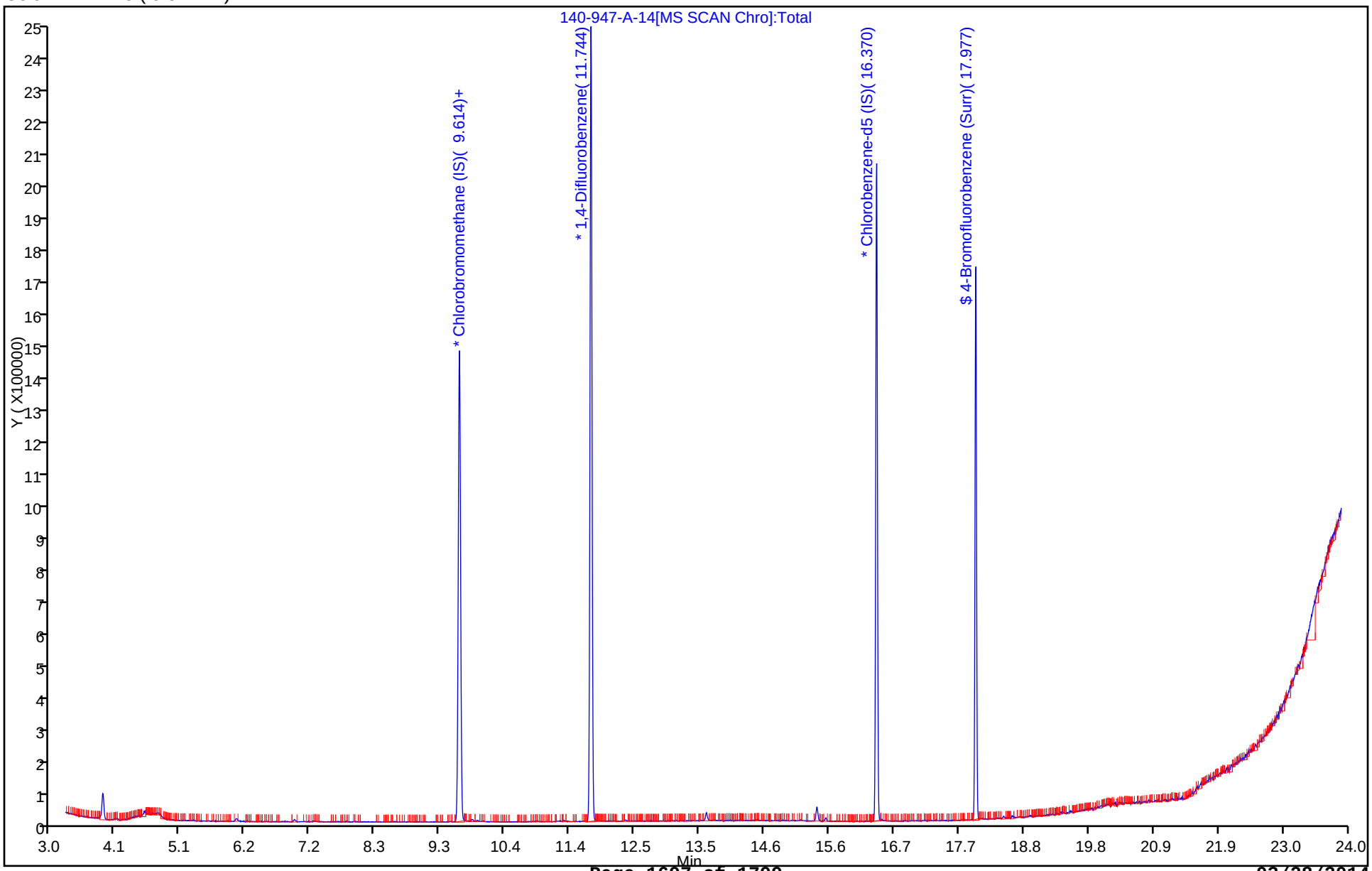
Report Date: 25-Feb-2014 09:52:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D

Injection Date:	25-Feb-2014 04:36:30	Instrument ID:	MG	Operator ID:	403648
Lims ID:	140-947-A-14	Lab Sample ID:	140-947-14	Worklist Smp#:	17
Client ID:	10269				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



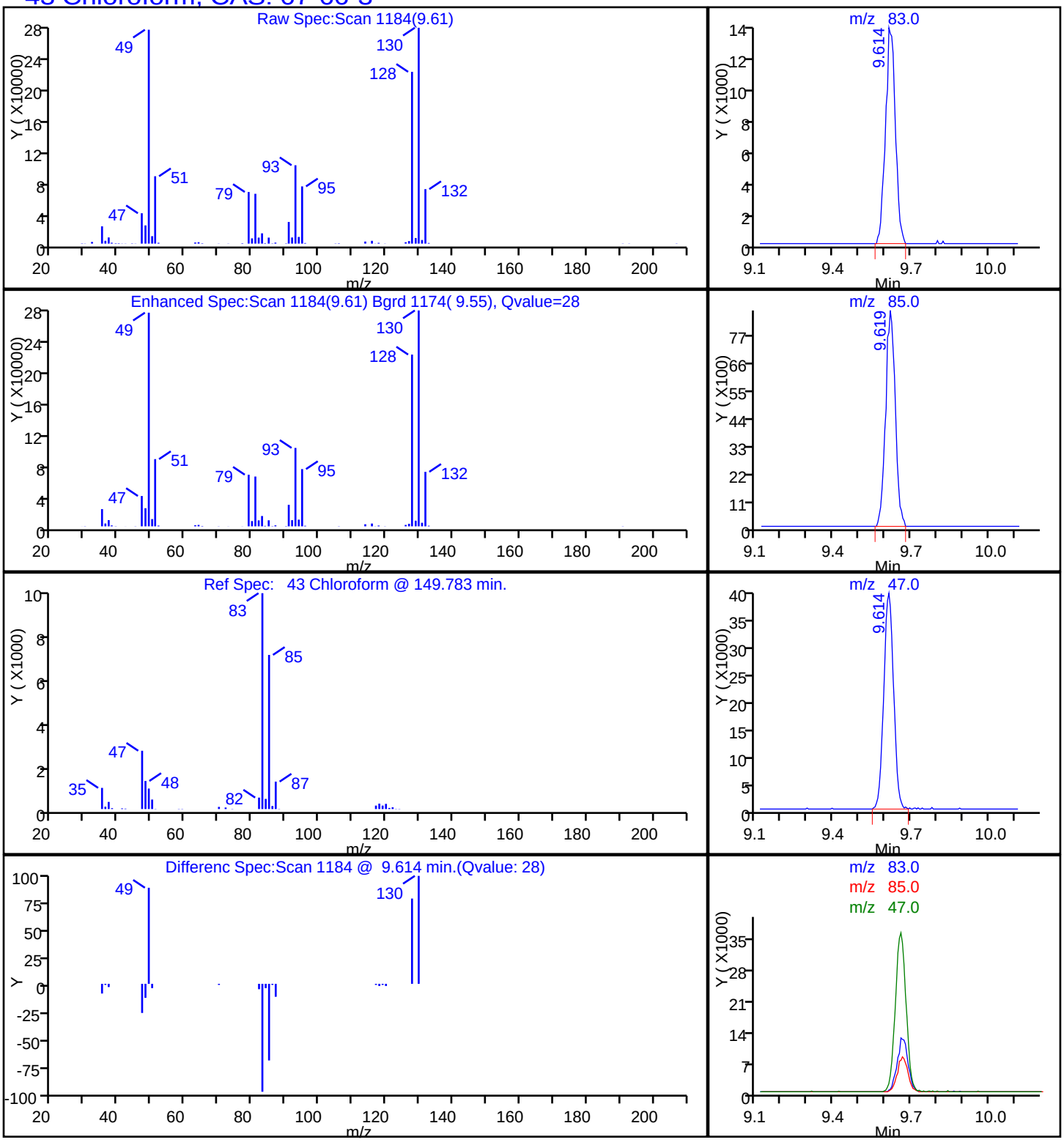
Report Date: 25-Feb-2014 09:52:43 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D

Injection Date:	25-Feb-2014 04:36:30	Instrument ID:	MG		
Lims ID:	140-947-A-14	Lab Sample ID:	140-947-14		
Client ID:	10269				
Operator ID:	403648	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MG_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

43 Chloroform, CAS: 67-66-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-948-1

SDG No.:

Client Sample ID: 10327 | Lab Sample ID: 140-948-1

Matrix: Air | Lab File ID: 140-948-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 10:45

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 23:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-948-1

SDG No.:

Client Sample ID: 10327 | Lab Sample ID: 140-948-1

Matrix: Air | Lab File ID: 140-948-A-1.D

Analysis Method: TO 15 LL | Date Collected: 02/24/2014 10:45

Sample wt/vol: 500(mL) | Date Analyzed: 02/25/2014 23:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 886 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1

SDG No.:

Client Sample ID: 10327 Lab Sample ID: 140-948-1

Matrix: Air Lab File ID: 140-948-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 23:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1

SDG No.:

Client Sample ID: 10327 Lab Sample ID: 140-948-1

Matrix: Air Lab File ID: 140-948-A-1.D

Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45

Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 23:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\ME\20140224-471.b\140-948-A-1.D				
Lims ID:	140-948-A-1	Lab Sample ID:	140-948-1		
Client ID:	10327				
Sample Type:	Client				
Inject. Date:	25-Feb-2014 23:26:30	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10327				
Misc. Info.:	E022514,TO155,,140-0000471-018				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	26-Feb-2014 08:20:04	Calib Date:	28-Jan-2014 20:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: tajh		Date:	26-Feb-2014 08:20:04		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	84	229662	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1122277	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1000628	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	890958	4.07	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	97	55052	0.6147	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	78	4674	0.0351	

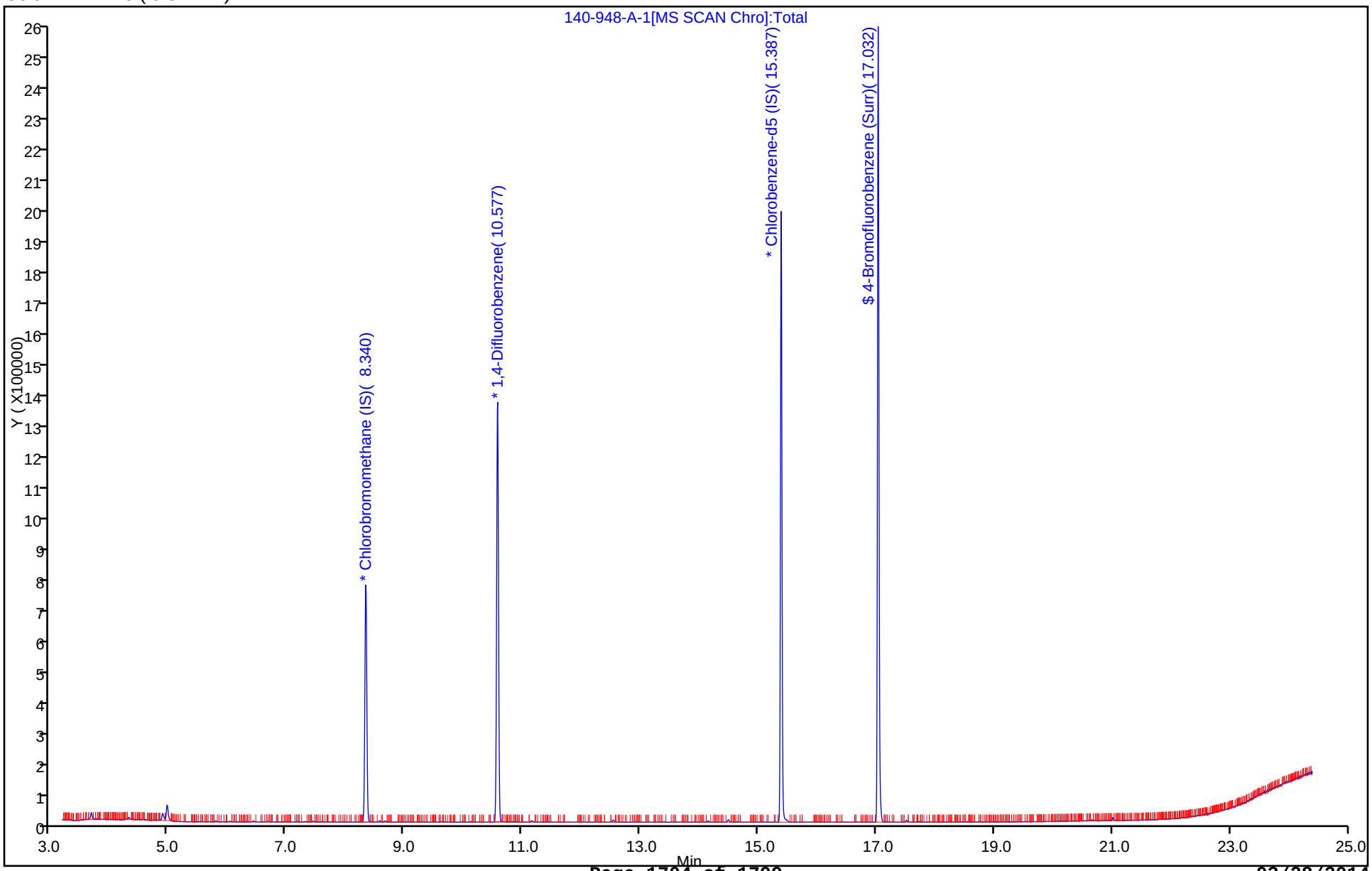
Report Date: 26-Feb-2014 08:20:06 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-948-A-1.D

Injection Date:	25-Feb-2014 23:26:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	140-948-A-1	Lab Sample ID:	140-948-1	Worklist Smp#:	18
Client ID:	10327				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 | Lab Sample ID: 140-959-1

Matrix: Air | Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 | Lab Sample ID: 140-959-1

Matrix: Air | Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 Lab Sample ID: 140-959-1

Matrix: Air Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10120 Lab Sample ID: 140-959-1

Matrix: Air Lab File ID: 140-959-a-1.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D
Lims ID: 140-959-A-1 Lab Sample ID: 140-959-1
Client ID: 10120
Sample Type: Client
Inject. Date: 01-Mar-2014 09:16:30 ALS Bottle#: 5 Worklist Smp#: 27
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10120
Misc. Info.: J022814,TO15,,140-0000480-027
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tajh Date: 03-Mar-2014 08:19:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208834	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	980719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	805864	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	632837	3.94	
62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	84	15220	0.0914	

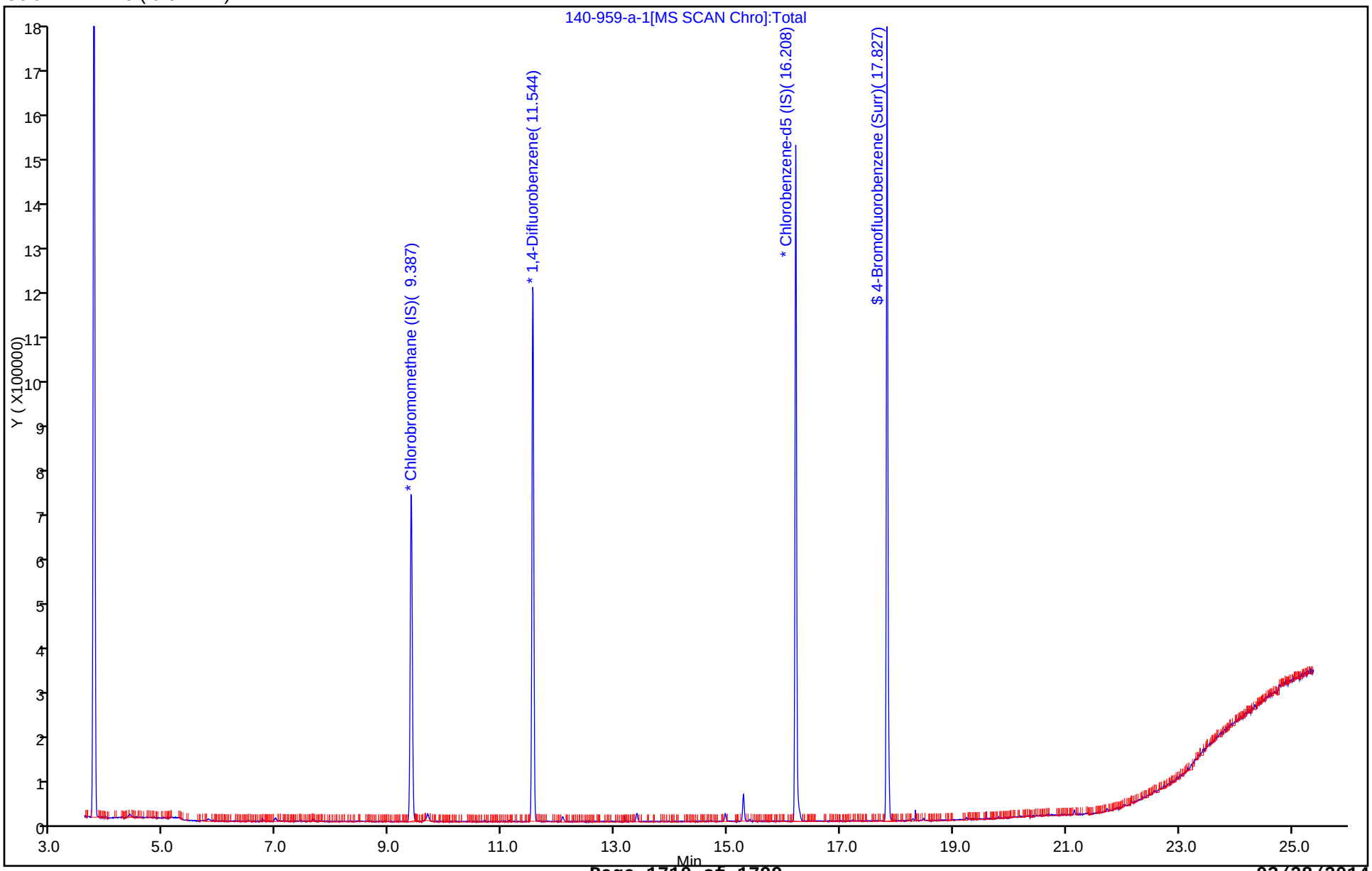
Report Date: 03-Mar-2014 12:18:32 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D

Injection Date:	01-Mar-2014 09:16:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-1	Lab Sample ID:	140-959-1	Worklist Smp#:	27
Client ID:	10120				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 | Lab Sample ID: 140-959-2

Matrix: Air | Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 | Lab Sample ID: 140-959-2

Matrix: Air | Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 894 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 Lab Sample ID: 140-959-2

Matrix: Air Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09819 Lab Sample ID: 140-959-2

Matrix: Air Lab File ID: 140-959-a-2.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D
Lims ID: 140-959-A-2 Lab Sample ID: 140-959-2
Client ID: 09819
Sample Type: Client
Inject. Date: 01-Mar-2014 10:11:30 ALS Bottle#: 6 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09819
Misc. Info.: J022814,TO15,,140-0000480-028
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tajh Date: 03-Mar-2014 08:20:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208112	4.00	
*	2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	956583	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	790948	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	614966	3.90	
	28 2-Methyl-2-propanol	59	6.509	6.480	0.029	57	3328	0.0266	
	62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	88	24740	0.1523	

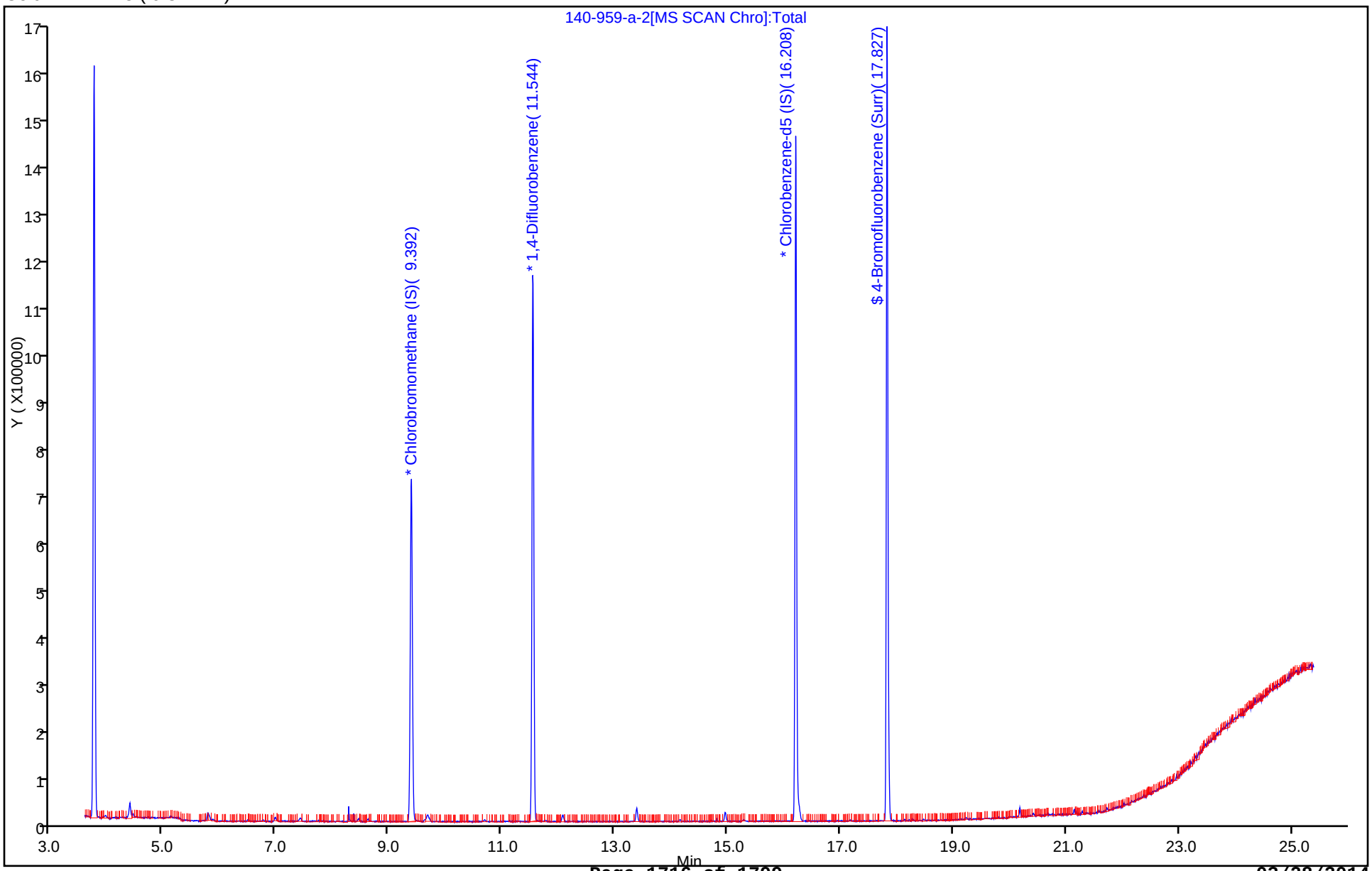
Report Date: 03-Mar-2014 08:20:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D

Injection Date:	01-Mar-2014 10:11:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-2	Lab Sample ID:	140-959-2	Worklist Smp#:	28
Client ID:	09819				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 | Lab Sample ID: 140-959-3

Matrix: Air | Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 | Lab Sample ID: 140-959-3

Matrix: Air | Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 | Lab Sample ID: 140-959-3

Matrix: Air | Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10185 Lab Sample ID: 140-959-3

Matrix: Air Lab File ID: 140-959-a-3.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D
Lims ID: 140-959-A-3 Lab Sample ID: 140-959-3
Client ID: 10185
Sample Type: Client
Inject. Date: 03-Mar-2014 10:34:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10185
Misc. Info.: J030314,TO15,,140-0000490-004
Operator ID: 7126 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 06:48:30 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:51:26

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	199842	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	930867	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.214	16.212	0.002	93	759559	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	83	596717	3.94	

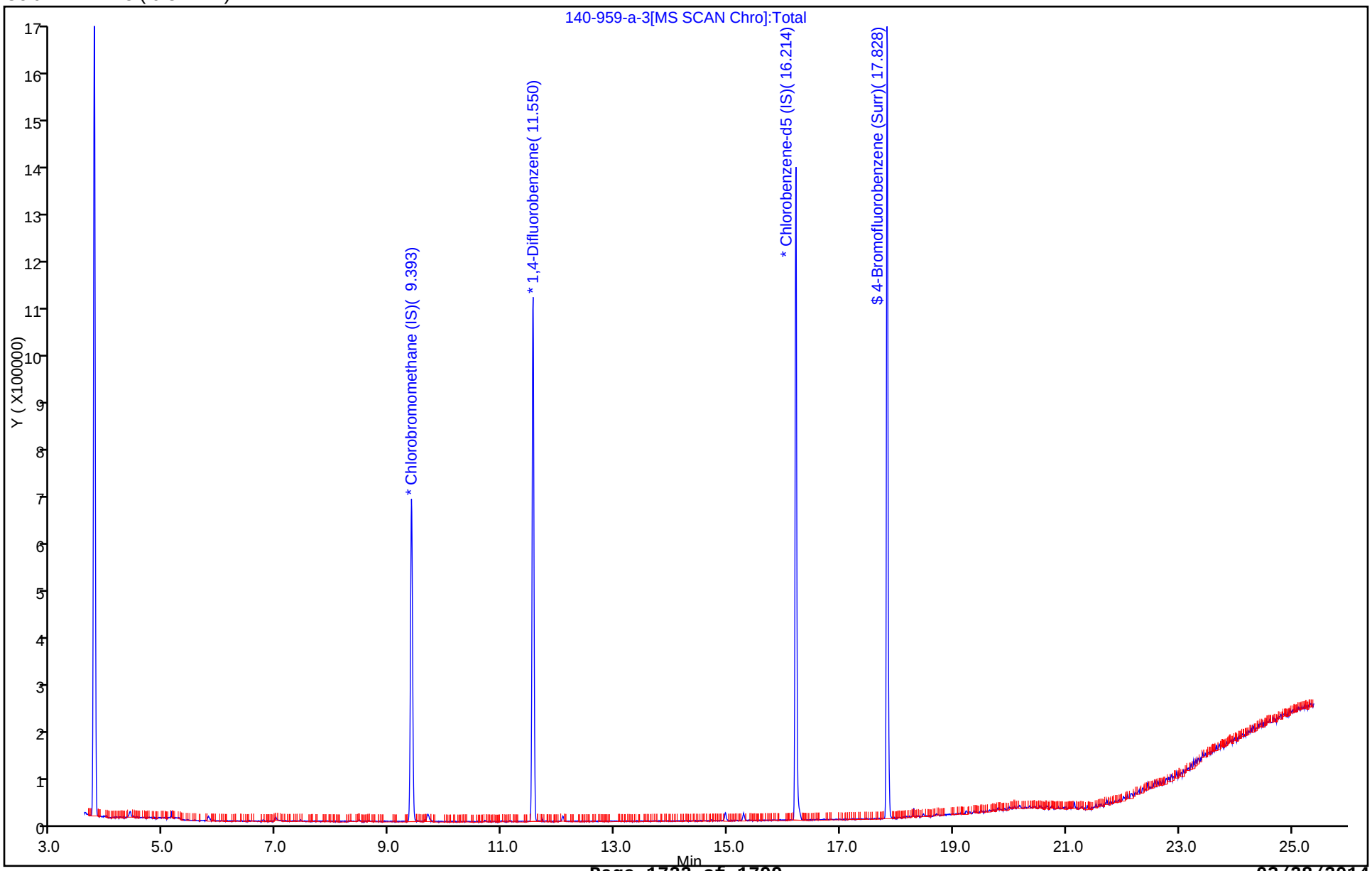
Report Date: 04-Mar-2014 08:51:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D

Injection Date:	03-Mar-2014 10:34:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-959-A-3	Lab Sample ID:	140-959-3	Worklist Smp#:	4
Client ID:	10185				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 | Lab Sample ID: 140-959-4

Matrix: Air | Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 | Lab Sample ID: 140-959-4

Matrix: Air | Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 | Lab Sample ID: 140-959-4

Matrix: Air | Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10848 Lab Sample ID: 140-959-4

Matrix: Air Lab File ID: 140-959-a-4.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D				
Lims ID:	140-959-A-4	Lab Sample ID:	140-959-4		
Client ID:	10848				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 11:29:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10848				
Misc. Info.:	J030314,TO15,,140-0000490-004				
Operator ID:	7126	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:26:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: barlozhetskayaa		Date:	03-Mar-2014 12:37:55		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.400	9.402	-0.002	93	198839	4.00	
* 2 1,4-Difluorobenzene	114	11.552	11.553	-0.001	94	939904	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.211	16.212	-0.001	93	784853	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	83	609598	3.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.383	0.015	47	4665	0.0292	

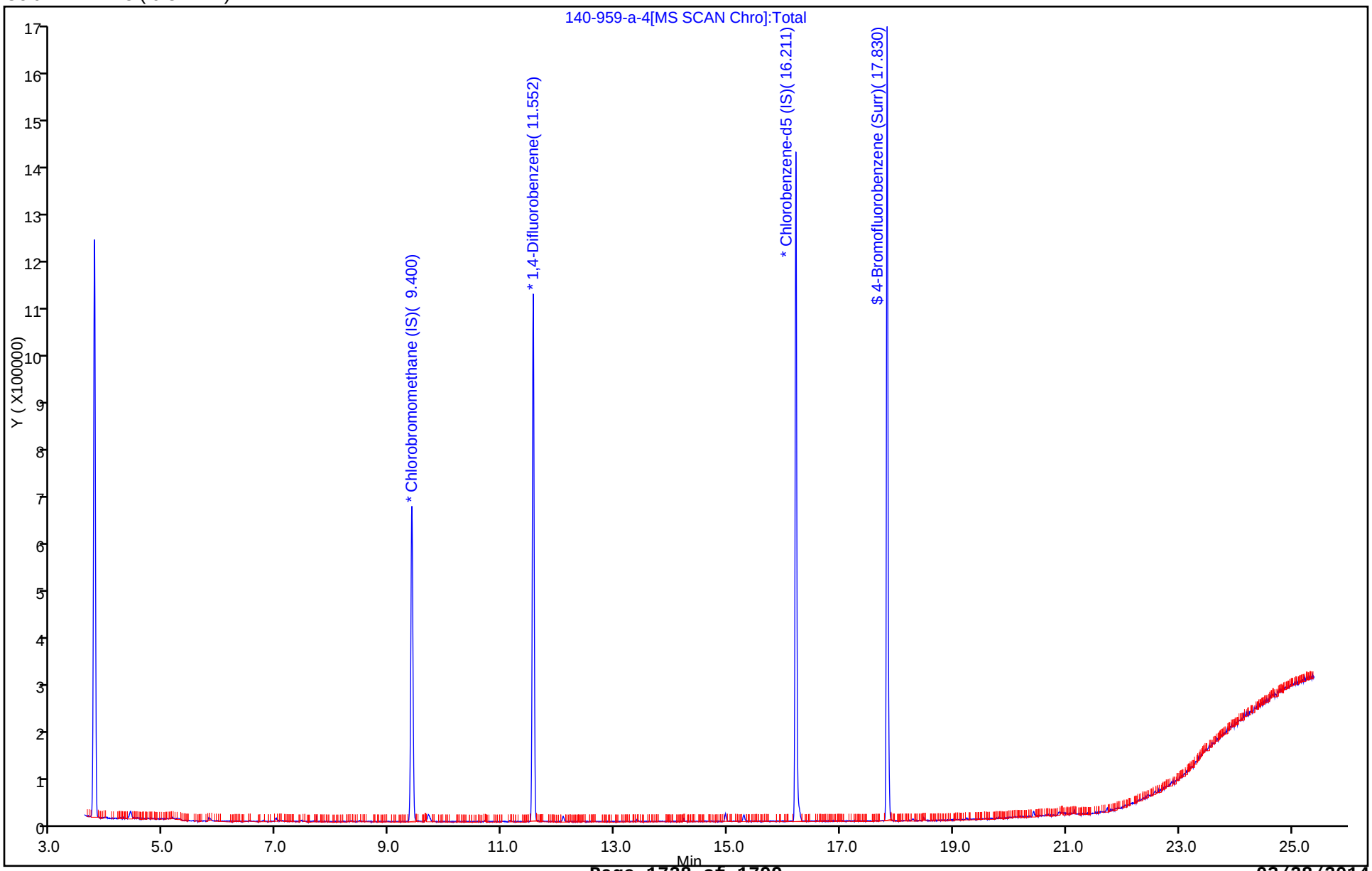
Report Date: 04-Mar-2014 07:30:28 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D

Injection Date:	03-Mar-2014 11:29:30	Instrument ID:	MJ	Operator ID:	7126
Lims ID:	140-959-A-4	Lab Sample ID:	140-959-4	Worklist Smp#:	5
Client ID:	10848				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 Lab Sample ID: 140-959-6

Matrix: Air Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 | Lab Sample ID: 140-959-6

Matrix: Air | Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 | Lab Sample ID: 140-959-6

Matrix: Air | Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10778 Lab Sample ID: 140-959-6

Matrix: Air Lab File ID: 140-959-a-6.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D				
Lims ID:	140-959-A-6	Lab Sample ID:	140-959-6		
Client ID:	10778				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 13:52:30	ALS Bottle#:	1	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	10778				
Misc. Info.:	J030314,TO15,,140-0000490-007				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:26:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: barlozhetskayaa		Date:	03-Mar-2014 17:09:46		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.402	-0.015	93	189725	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	897457	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	711149	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	82	533899	3.76	
13 Butane	43	4.519	4.523	-0.004	74	3725	0.0345	
24 Isopropyl alcohol	45	5.858	5.857	0.001	49	5617	0.0511	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	83	15930	0.1045	

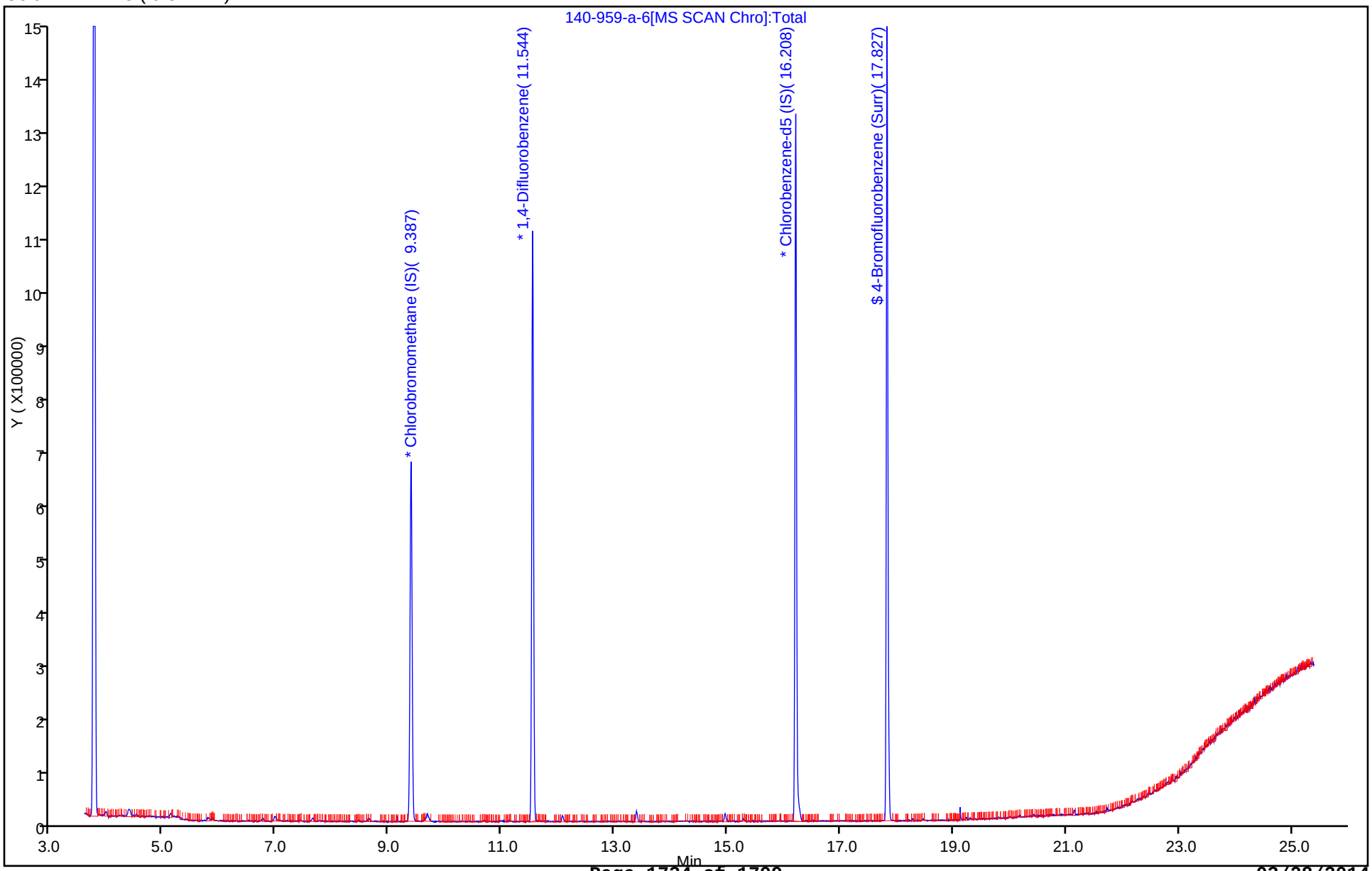
Report Date: 04-Mar-2014 07:30:34 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D

Injection Date:	03-Mar-2014 13:52:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-6	Lab Sample ID:	140-959-6	Worklist Smp#:	7
Client ID:	10778				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 | Lab Sample ID: 140-959-7

Matrix: Air | Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 | Lab Sample ID: 140-959-7

Matrix: Air | Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 | Lab Sample ID: 140-959-7

Matrix: Air | Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10315 Lab Sample ID: 140-959-7

Matrix: Air Lab File ID: 140-959-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D
Lims ID: 140-959-A-7 Lab Sample ID: 140-959-7
Client ID: 10315
Sample Type: Client
Inject. Date: 03-Mar-2014 14:47:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10315
Misc. Info.: J030314,TO15,,140-0000490-008
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 17:10:10

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	92	188834	4.00	
*	2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	900379	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	757972	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	597016	3.95	
	62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	85	24559	0.1606	

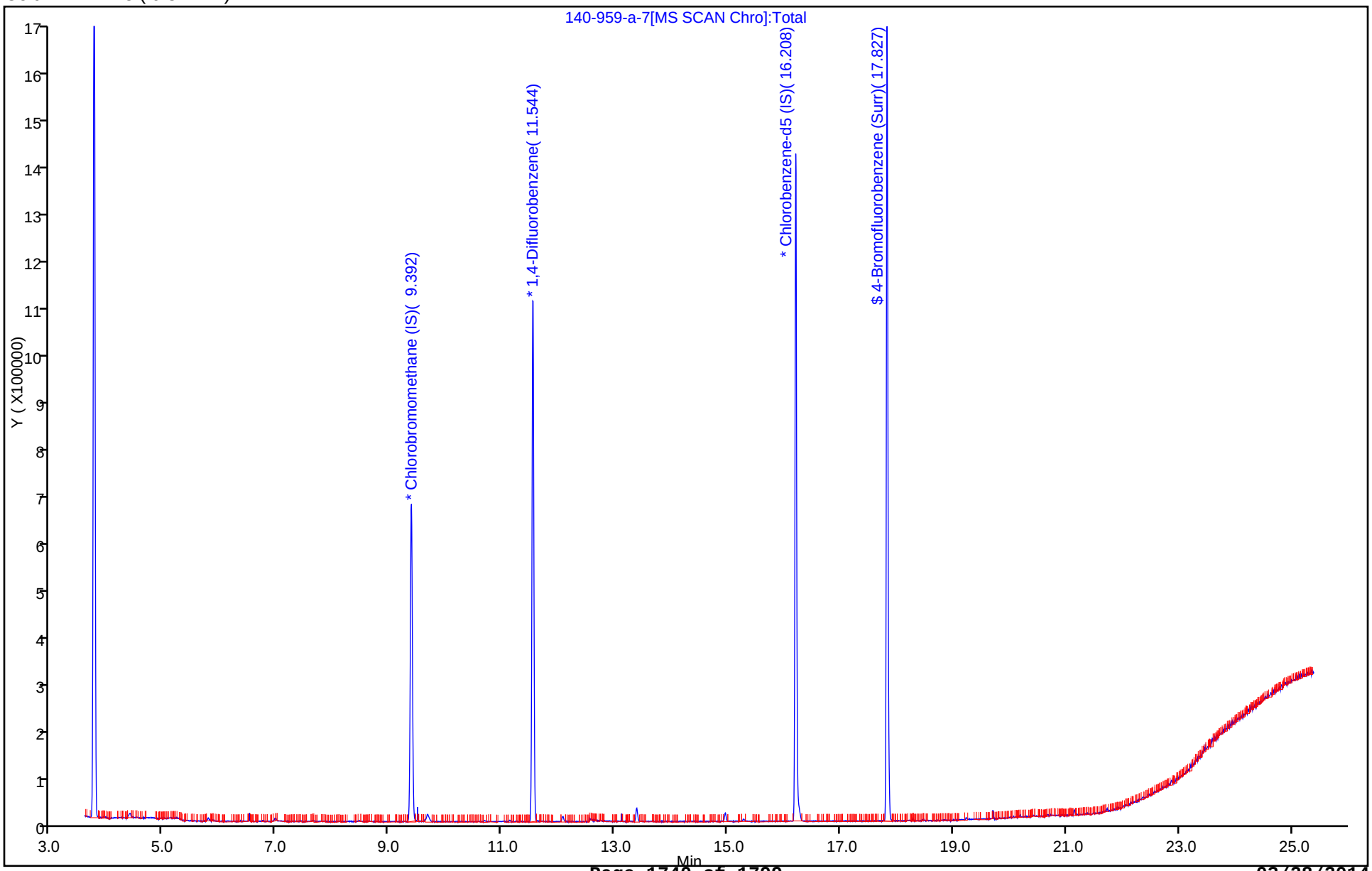
Report Date: 04-Mar-2014 07:30:36 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D

Injection Date:	03-Mar-2014 14:47:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-7	Lab Sample ID:	140-959-7	Worklist Smp#:	8
Client ID:	10315				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.20		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 Lab Sample ID: 140-959-8

Matrix: Air Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D				
Lims ID:	140-959-A-8	Lab Sample ID:	140-959-8		
Client ID:	09629				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 15:41:30	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09629				
Misc. Info.:	J030314,TO15,,140-0000490-009				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:26:49	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: barlozhetskayaa		Date:	03-Mar-2014 17:12:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.389	9.402	-0.013	92	191903	4.00	
* 2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	877030	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	696616	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	85	540341	3.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.392	13.383	0.010	87	29040	0.1950	

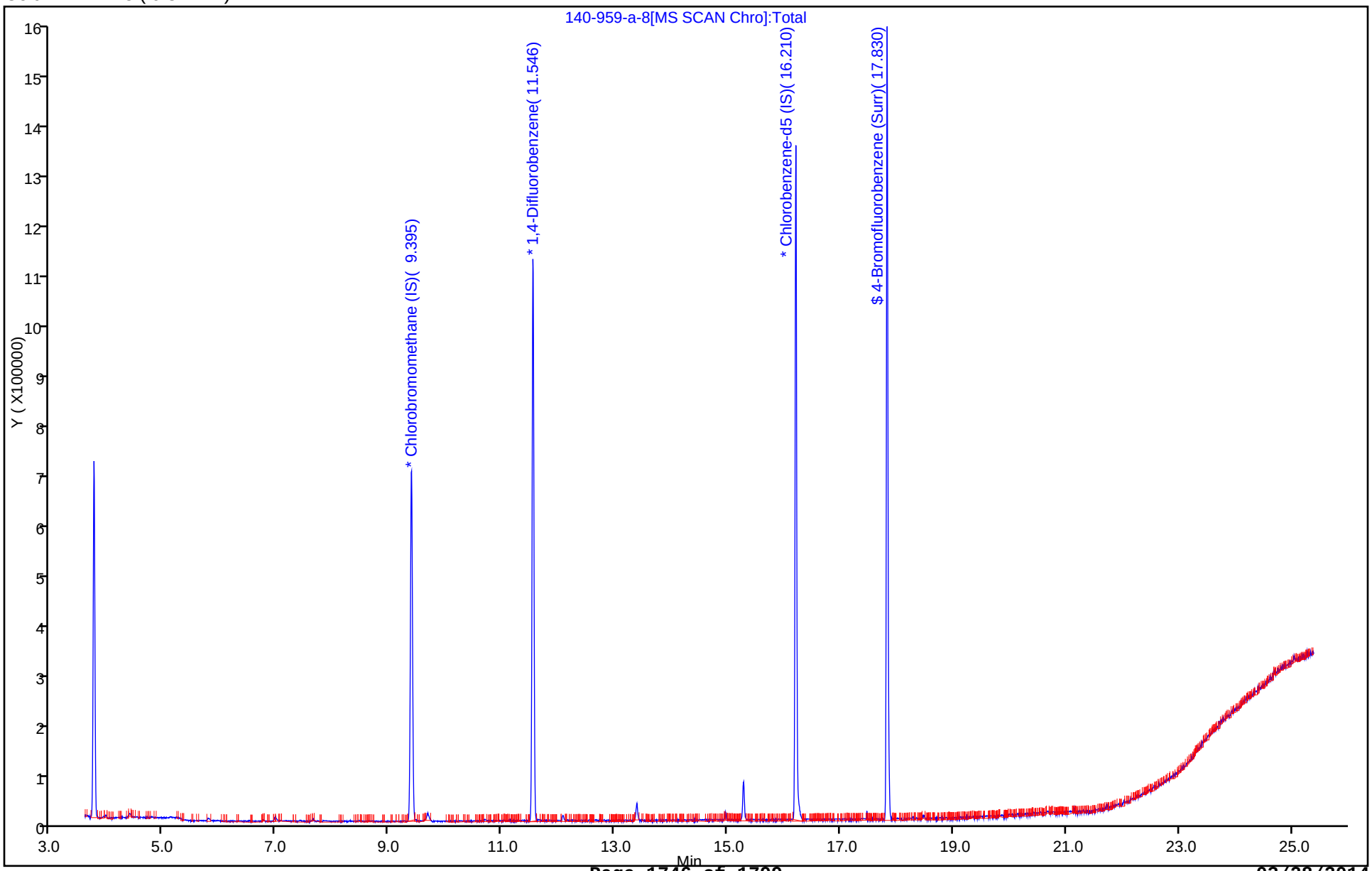
Report Date: 04-Mar-2014 07:30:37 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date:	03-Mar-2014 15:41:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-8	Lab Sample ID:	140-959-8	Worklist Smp#:	9
Client ID:	09629				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



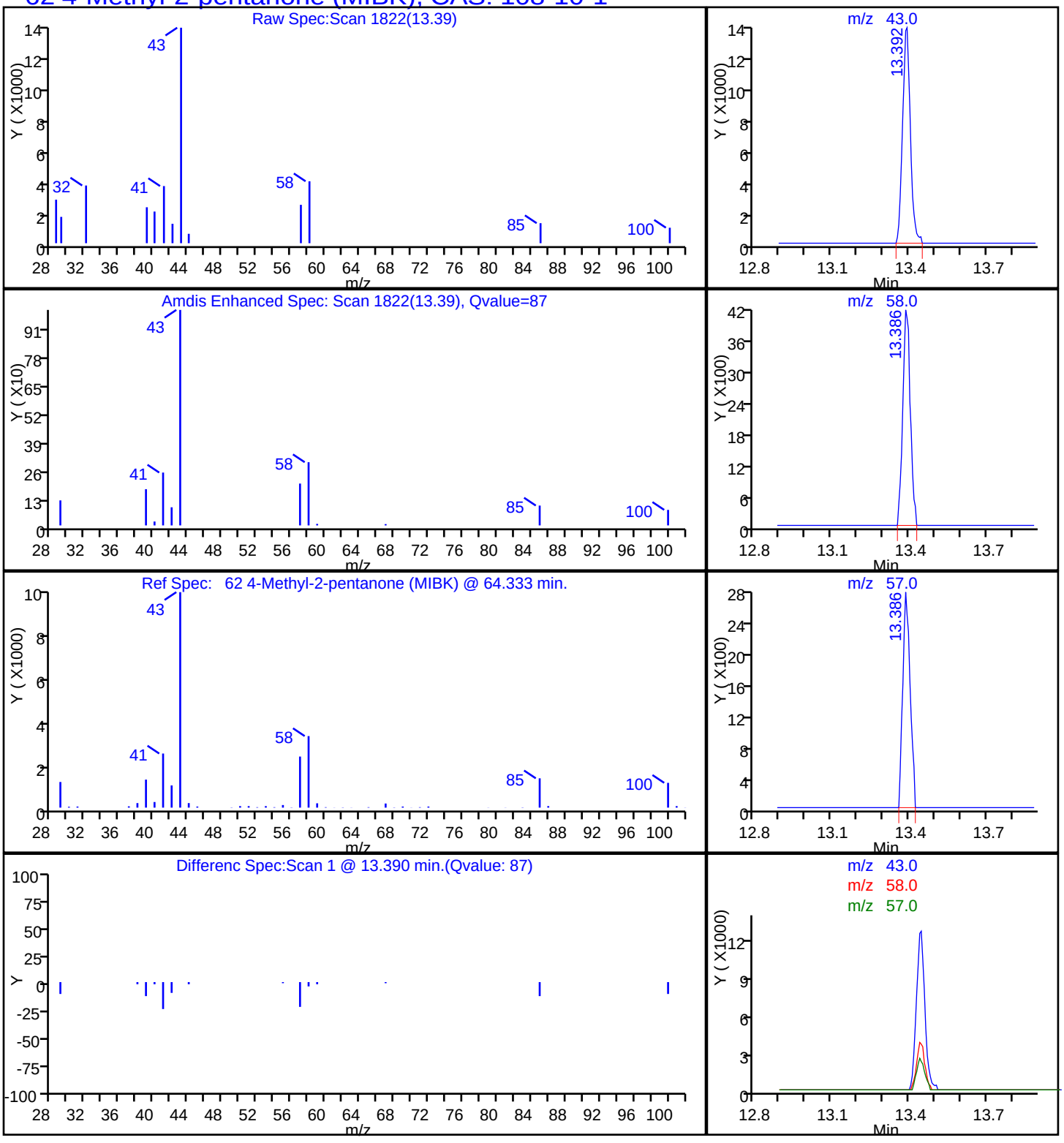
Report Date: 04-Mar-2014 07:30:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date:	03-Mar-2014 15:41:30	Instrument ID:	MJ		
Lims ID:	140-959-A-8	Lab Sample ID:	140-959-8		
Client ID:	09629				
Operator ID:	403648	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 | Lab Sample ID: 140-959-10

Matrix: Air | Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10719 Lab Sample ID: 140-959-10

Matrix: Air Lab File ID: 140-959-a-10.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D
Lims ID: 140-959-A-10 Lab Sample ID: 140-959-10
Client ID: 10719
Sample Type: Client
Inject. Date: 03-Mar-2014 17:30:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10719
Misc. Info.: J030314,TO15,,140-0000490-011
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:31:51 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:31:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	181700	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	836306	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	686661	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	537047	3.92	
33 Carbon disulfide	76	6.945	6.949	-0.004	88	8852	0.0450	

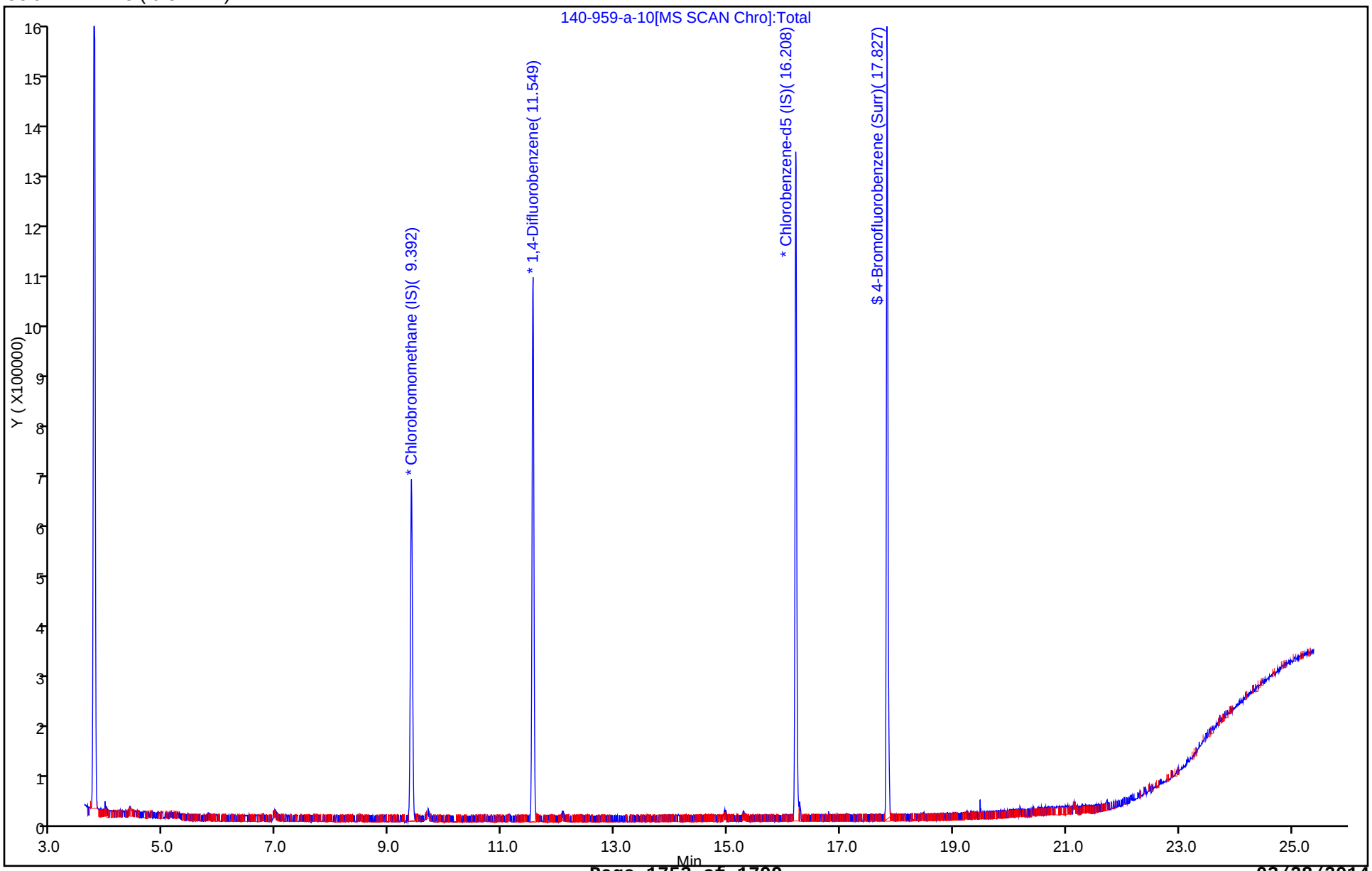
Report Date: 04-Mar-2014 07:31:52 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D

Injection Date:	03-Mar-2014 17:30:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-10	Lab Sample ID:	140-959-10	Worklist Smp#:	11
Client ID:	10719				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 Lab Sample ID: 140-959-11

Matrix: Air Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 | Lab Sample ID: 140-959-11

Matrix: Air | Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 | Lab Sample ID: 140-959-11

Matrix: Air | Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09534 Lab Sample ID: 140-959-11

Matrix: Air Lab File ID: 140-959-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D				
Lims ID:	140-959-A-11	Lab Sample ID:	140-959-11		
Client ID:	09534				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 18:24:30	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	09534				
Misc. Info.:	J030314,TO15,,140-0000490-012				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:32:19	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 07:32:19		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	188607	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	858612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	710639	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	547894	3.86	

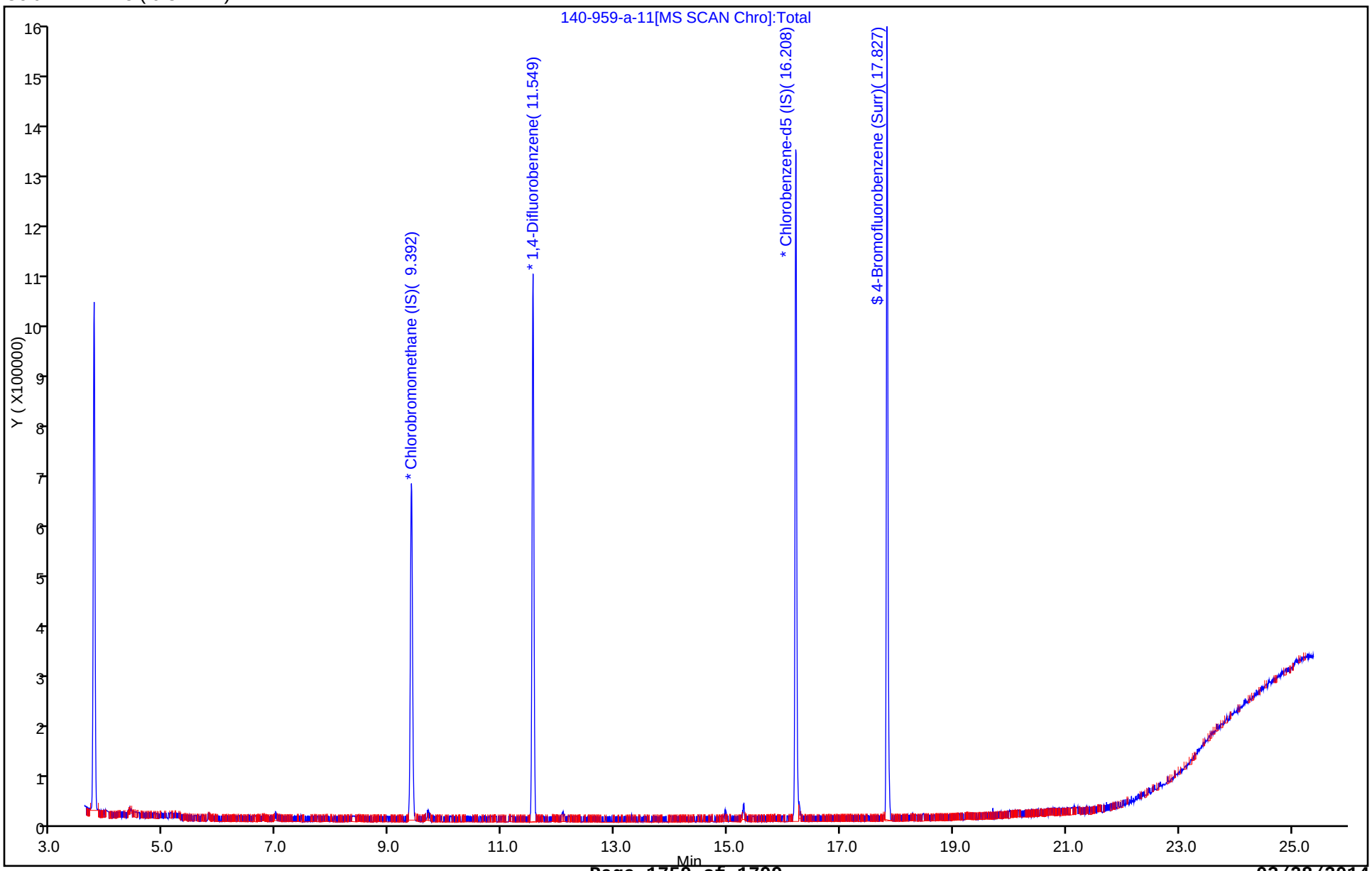
Report Date: 04-Mar-2014 07:32:20 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D

Injection Date:	03-Mar-2014 18:24:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-11	Lab Sample ID:	140-959-11	Worklist Smp#:	12
Client ID:	09534				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 | Lab Sample ID: 140-959-12

Matrix: Air | Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 | Lab Sample ID: 140-959-12

Matrix: Air | Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 Lab Sample ID: 140-959-12

Matrix: Air Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 11043 Lab Sample ID: 140-959-12

Matrix: Air Lab File ID: 140-959-a-12.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D				
Lims ID:	140-959-A-12	Lab Sample ID:	140-959-12		
Client ID:	11043				
Sample Type:	Client				
Inject. Date:	03-Mar-2014 19:19:30	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	11043				
Misc. Info.:	J030314,TO15,,140-0000490-013				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	04-Mar-2014 07:33:37	Calib Date:	13-Dec-2013 09:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: tajh		Date:	04-Mar-2014 07:33:37		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.402	-0.008	93	187675	4.00	
* 2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	882439	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	745022	4.00	
$ 5 4-Bromofluorobenzene (Surr)	95	17.829	17.831	-0.002	82	571868	3.85	
13 Butane	43	4.525	4.523	0.002	64	3215	0.0301	

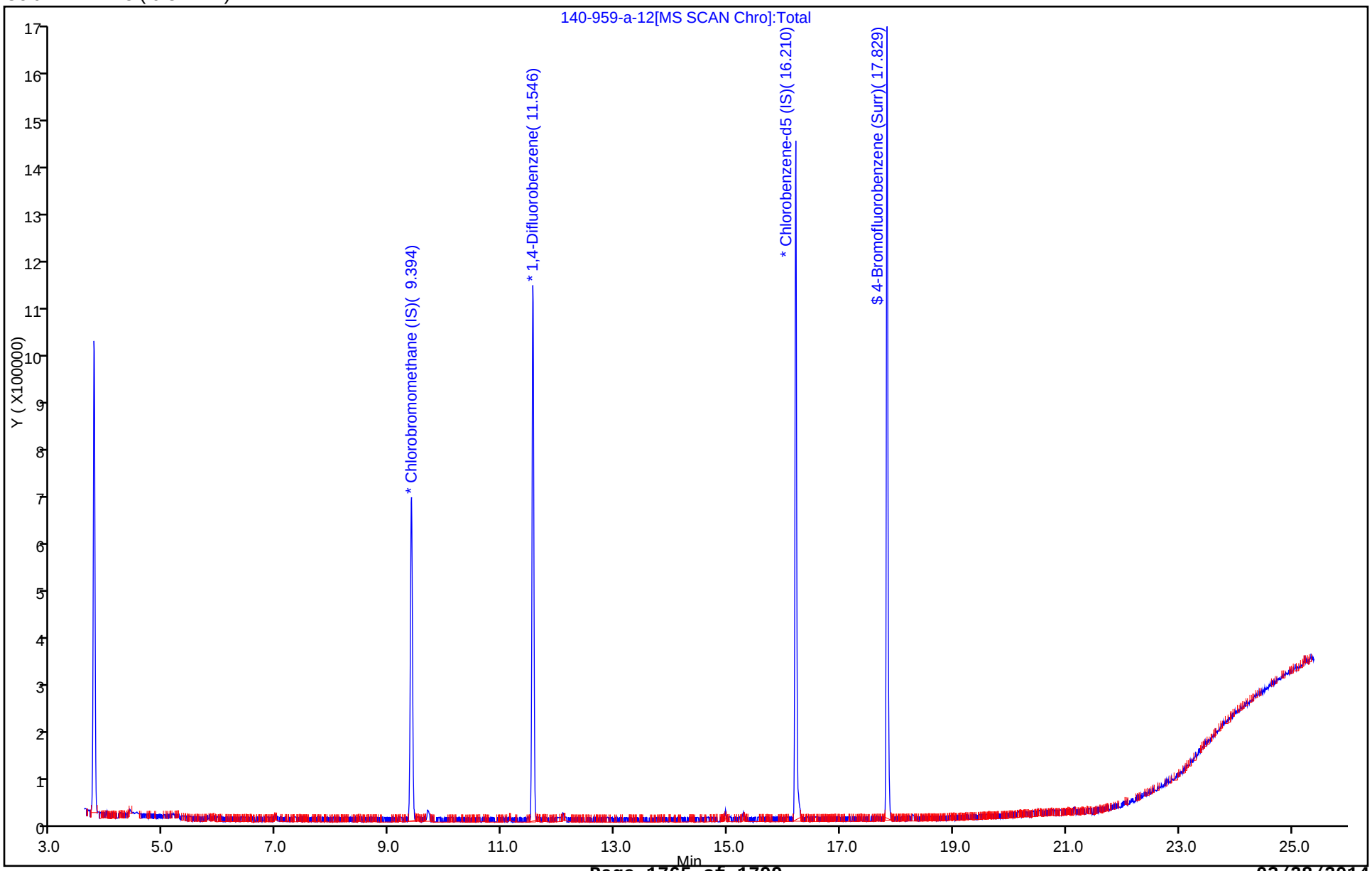
Report Date: 04-Mar-2014 07:33:38 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D

Injection Date:	03-Mar-2014 19:19:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-12	Lab Sample ID:	140-959-12	Worklist Smp#:	13
Client ID:	11043				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 | Lab Sample ID: 140-959-13

Matrix: Air | Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 10515 Lab Sample ID: 140-959-13

Matrix: Air Lab File ID: 140-959-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 20:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D
Lims ID: 140-959-A-13 Lab Sample ID: 140-959-13
Client ID: 10515
Sample Type: Client
Inject. Date: 03-Mar-2014 20:13:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10515
Misc. Info.: J030314,TO15,,140-0000490-014
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:34:00 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:33:59

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	185379	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	879359	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	742147	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	84	576579	3.89	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	46	4587	0.0307	

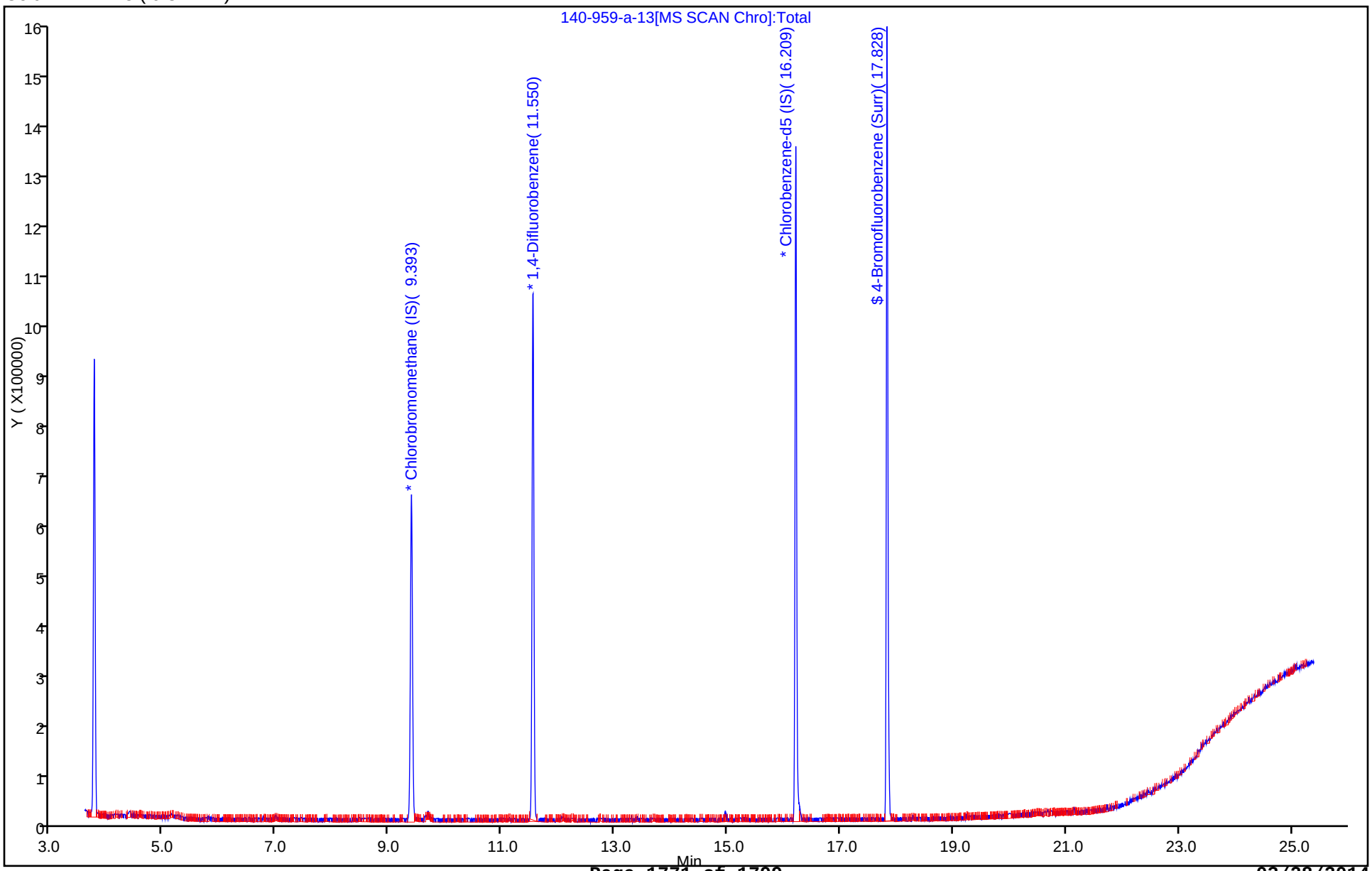
Report Date: 04-Mar-2014 07:34:00 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D

Injection Date:	03-Mar-2014 20:13:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-13	Lab Sample ID:	140-959-13	Worklist Smp#:	14
Client ID:	10515				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 | Lab Sample ID: 140-959-14

Matrix: Air | Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09696 Lab Sample ID: 140-959-14

Matrix: Air Lab File ID: 140-959-a-14.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 21:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D
Lims ID: 140-959-A-14 Lab Sample ID: 140-959-14
Client ID: 09696
Sample Type: Client
Inject. Date: 03-Mar-2014 21:08:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09696
Misc. Info.: J030314,TO15,,140-0000490-015
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:34:23 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:34:23

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	184985	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	875475	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	724675	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	566372	3.92	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	85	10358	0.0697	

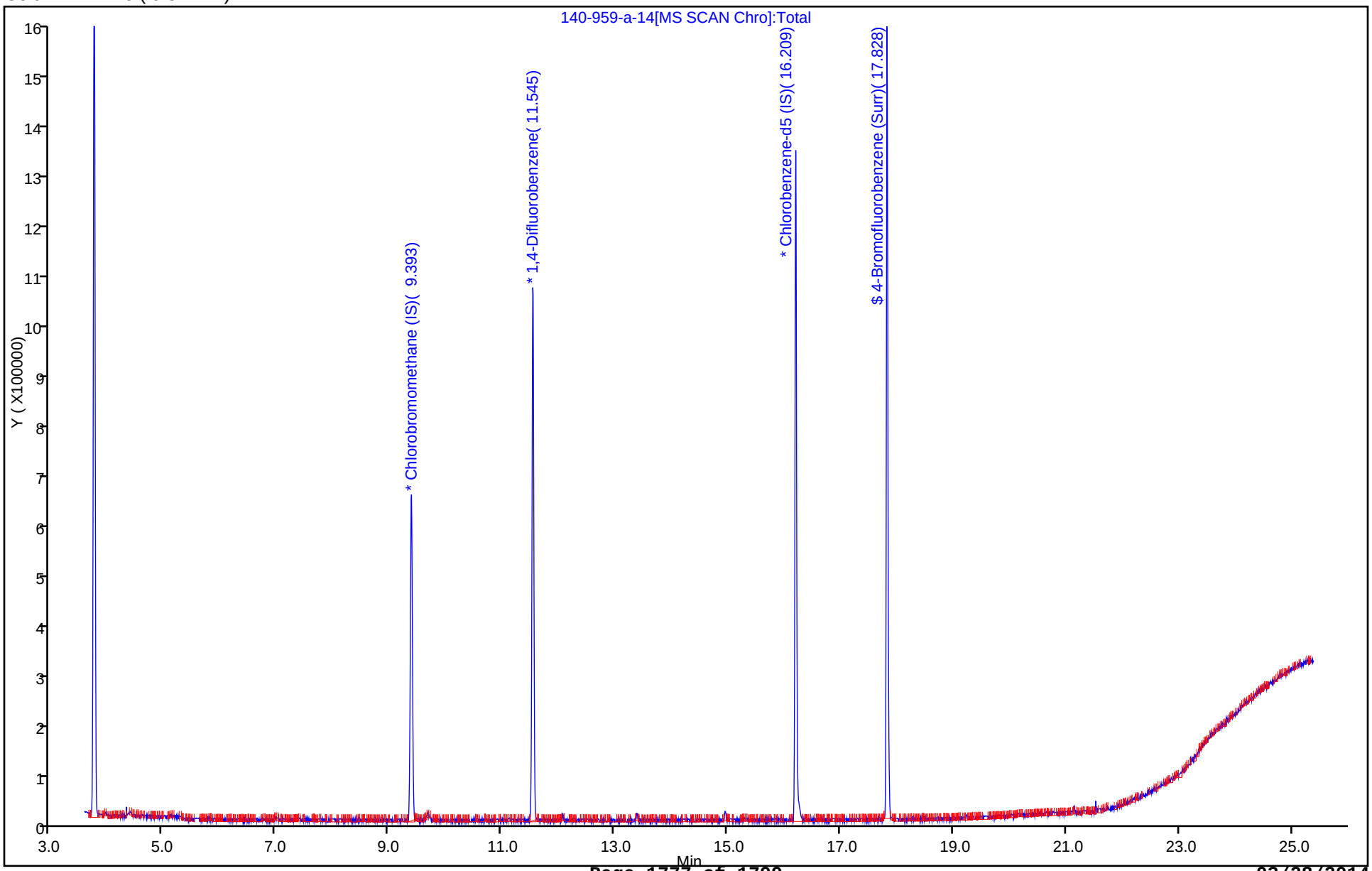
Report Date: 04-Mar-2014 07:34:24 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D

Injection Date:	03-Mar-2014 21:08:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-14	Lab Sample ID:	140-959-14	Worklist Smp#:	15
Client ID:	09696				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 | Lab Sample ID: 140-959-16

Matrix: Air | Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1

SDG No.:

Client Sample ID: 09918 Lab Sample ID: 140-959-16

Matrix: Air Lab File ID: 140-959-a-16.D

Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 22:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D
Lims ID: 140-959-A-16 Lab Sample ID: 140-959-16
Client ID: 09918
Sample Type: Client
Inject. Date: 03-Mar-2014 22:57:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09918
Misc. Info.: J030314,TO15,,140-0000490-017
Operator ID: 403648 Instrument ID: MJ

Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 07:35:17 Calib Date: 13-Dec-2013 09:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:35:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	183786	4.00	
*	2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	809290	4.00	
*	3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	95	652574	4.00	
$	5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	518506	3.98	
	9 Chloromethane	52	4.234	4.232	0.002	42	2105	0.0888	
	62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	81	16416	0.1195	

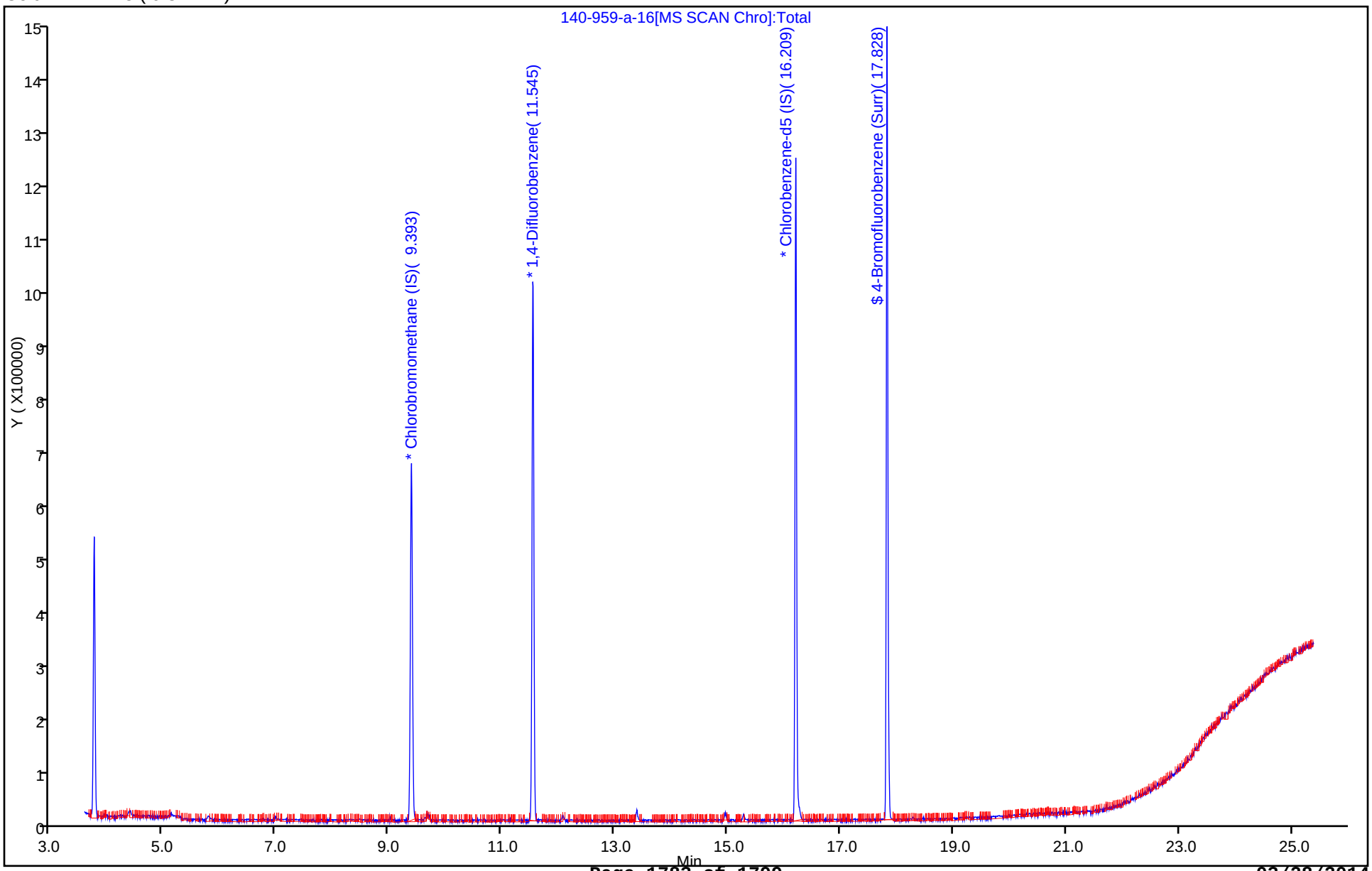
Report Date: 04-Mar-2014 07:35:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D

Injection Date:	03-Mar-2014 22:57:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-959-A-16	Lab Sample ID:	140-959-16	Worklist Smp#:	17
Client ID:	09918				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MJ_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-987-1

SDG No.:

Client Sample ID: 10276 | Lab Sample ID: 140-987-4

Matrix: Air | Lab File ID: 140-987-a-4.D

Analysis Method: TO 15 LL | Date Collected: 03/03/2014 14:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-987-1

SDG No.:

Client Sample ID: 10276 | Lab Sample ID: 140-987-4

Matrix: Air | Lab File ID: 140-987-a-4.D

Analysis Method: TO 15 LL | Date Collected: 03/03/2014 14:35

Sample wt/vol: 500(mL) | Date Analyzed: 03/04/2014 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 905 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1

SDG No.:

Client Sample ID: 10276 Lab Sample ID: 140-987-4

Matrix: Air Lab File ID: 140-987-a-4.D

Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 09:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1

SDG No.:

Client Sample ID: 10276 Lab Sample ID: 140-987-4

Matrix: Air Lab File ID: 140-987-a-4.D

Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 09:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-987-a-4.D
Lims ID: 140-987-A-4 Lab Sample ID: 140-987-4
Client ID: 10276
Sample Type: Client
Inject. Date: 04-Mar-2014 09:03:30 ALS Bottle#: 12 Worklist Smp#: 27
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10276
Misc. Info.: E030314,TO155,,140-0000488-026
Operator ID: 403648 Instrument ID: ME

Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 04-Mar-2014 10:19:53 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:19:52

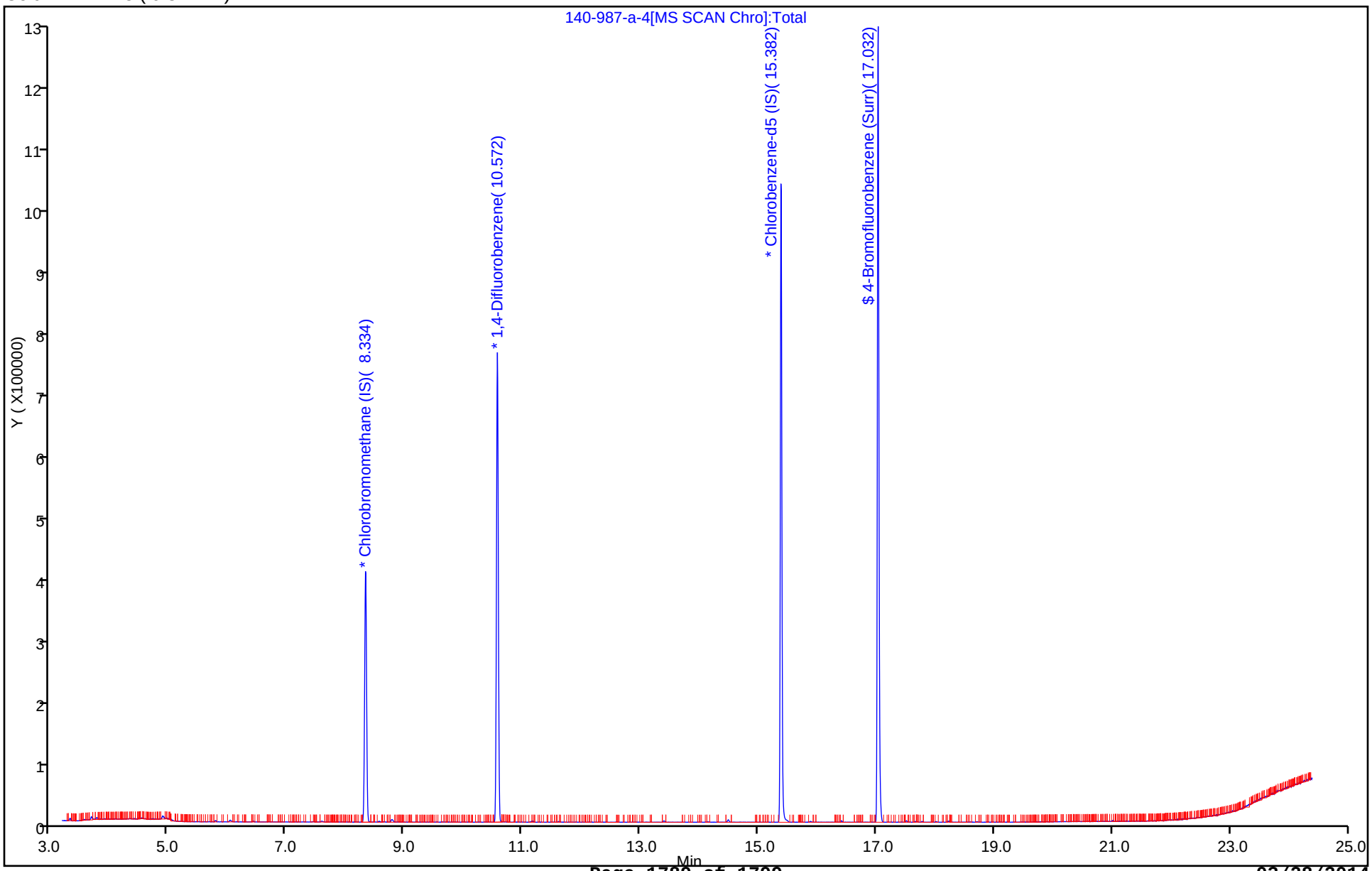
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	78	121724	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	613587	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	90	538375	4.00	
$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	91	448355	3.80	
14 Butane	43	3.778	3.778	0.0	65	1799	0.0309	
19 2-Methylbutane	43	4.538	4.544	-0.006	33	1143	0.0268	
44 Tetrahydrofuran	42	8.782	8.755	0.027	74	2286	0.0732	

Report Date: 04-Mar-2014 10:19:53 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File:	\\KNXCHROM\ChromData\ME\20140228-488.b\140-987-a-4.D				
Injection Date:	04-Mar-2014 09:03:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-987-A-4	Lab Sample ID:	140-987-4	Worklist Smp#:	27
Client ID:	10276				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
seg	"03/18/14"	0835	140-1063-A-1	x		-8.3	
seg	"03/18/14"	0836	140-1063-A-2	x		-3.6	
seg	"03/18/14"	0837	140-1063-A-3	x		-5.4	
seg	"03/18/14"	0838	140-1063-A-4	x		-2.7	
seg	"03/18/14"	0848	140-1063-A-5	x		-3.0	
seg	"03/18/14"	0849	140-1063-A-6	x		-2.0	
seg	"03/18/14"	0850	140-1063-A-8	x		-5.9	
seg	"03/18/14"	0851	140-1063-A-9	x		-5.8	
seg	"03/18/14"	0852	140-1063-A-10	x		-3.5	
seg	"03/18/14"	0855	140-1063-A-11	x		-4.6	
seg	"03/18/14"	0856	140-1063-A-12	x		-11	
seg	"03/18/14"	0857	140-1063-A-13	x		-6.3	
seg	"03/18/14"	0858	140-1063-A-14	x		-5.8	
seg	"03/18/14"	0859	140-1063-A-15	x		-13.7	
seg	"03/18/14"	0909	140-1063-A-16	x		-4.3	
seg	"03/18/14"	0910	140-1063-A-17	x		-4.2	
seg	"03/18/14"	0911	140-1063-A-18	x		-5.1	
seg	"03/18/14"	0912	140-1063-A-19	x		-5.1	
seg	"03/18/14"	0913	140-1063-A-20	x		-3.7	
seg	"03/18/14"	0916	140-1063-A-21	x		-6.7	
seg	"03/18/14"	0917	140-1063-A-22	x		-4.6	
seg	"03/18/14"	0918	140-1063-A-23	x		-3.7	
seg	"03/18/14"	0919	140-1063-A-24	x		-6.7	
seg	"03/18/14"	0920	140-1063-A-25	x		-6.3	
				x			
				x			

Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer	Sampled By: Sara Meissner	3 of 3 COCs
Company: AECOM		Phone: 516-581-7313		
Address: 125 Broad Street		Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004		TAL Contact: Jamie McKinney		
Phone: 212-377-8400				
FAX: 212-377-8410				
Project Name: Stuy Town IA		Analysis Turnaround Time		
Site/location: Stuy Town, NYC		Standard (Specify) X		
PO #		Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Grab 8 hr)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA4 - E14	3/13/14	1020	1712	-30	-8	10062	09683	X						X	X				71°
IA5 - E14	3/13/14	0858	1640	-30	-5	10297	10010	X						X	X				71°
IA6 - E14	3/13/14	0856	1645	-30	-4	10359	10188	X						X	X				71°
IA7 - E14	3/13/14	0850	1552	-30	-4	10792	09513	X						X	X				71°
AMB - 2	3/13/14	0910	1648	-30	-5	10666	09514	X						X		X			25°
AMB - 4	3/13/14	0915	1649	-30	-5	09914	10401	X						X		X			25°

Sampled by : Sara Meissner

Temperature (Fahrenheit)	Interior	Ambient
Start	71° F	21° F
Stop	72° F	32° F

Sampled by : Sara Meissner

Pressure (inches of Hg)	Interior	Ambient
Start		29.48"
Stop		29.74"

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
BKD 3-17-14
SHIPPED FED EX MASTER # 7982 2138 4083

25 CANS / 25 FLOWS / 9 C.C

Special Instructions/QC Requirements & Comments:

140-1063 Chain of Custody

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/13/14 1721	Received by:
Relinquished by: B. Sommer	Date/Time: 03-14-14 14:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Kristen Barbour	2 of 3 JE COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Peter Cooper Village IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Can Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (COMPASS Id)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
* PCV-IA1-B7	3/12/14	0855	1617	-30+	-19	09860	10207	X						X	X				63°F
PCV-IA2-B7	3/12/14	0848	1600	-30	-6	10784	10187	X						X	X				60°F
PCV-IA3-B7	3/12/14	0853	1610	-30	-5	09718	10513	X						X	X				61°F
PCV-IA1-B11	3/12/14	0833	1634	-30	-4	10861	09761	X						X	X				68°F
PCV-IA2-B11	3/12/14	0833	1632	-28.5	-4	10595	10327	X						X	X				65°F
PCV-IA3-B11	3/12/14	0836	1630	-30	-10	00660	09509	X						X	X				66°F

Sampled by :

Kristen Barbour

Temperature (Fahrenheit)	Interior	Ambient
Start		47°F
Stop		50°F

Kristen Barbour

Pressure (inches of Hg)	Interior	Ambient
Start		29.57
Stop		29.21

Special Instructions/QC Requirements & Comments:

Other = temp in sample room.

* Hold sample PCV-IA1-B7 wait for further instruction

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: Jessica Ehlen	Date/Time: 3/13/14 17:22	Received by:
Relinquished by: B. Sommi	Date/Time: 03-14-14 - 14:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Kristen Barbour	23 of 26 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-5400			
FAX: 212-377-5460			
Project Name: Stuyvestant Town IA	Analysis Turnaround Time		
Site/location: Stuyvestant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + MGP List - Con Ed	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Confirm)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
~~IA1E1A~~ IA1E1A	3/13/14	936	1609	-30+	-10	806600	10367	X						X	X				
IA2E1A	↓	932	1653	-30	-5	~~10352~~	09916	X						X	X				
IA3E1A	↓	~~932~~	1652	-28	-10	10348	10885	X						X	X				

Sampled by :
Kristen Barbour

Temperature (Fahrenheit)	Interior	Ambient
Start		21°F
Stop		33°F

Kristen Barbour

Pressure (inches of Hg)	Interior	Ambient
Start		29.48
Stop		29.72

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/13/14 17:17	Received by:
Relinquished by: B. Sonnn	Date/Time: 03-14-14 14:00	Received by: [illegible] 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	4 of 6 COCs
Company: AECOM	Phone: 212-377-8706		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8410			
Project Name: Peter Cooper Village, NY	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) X		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed + MCP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Composite)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-BS	3-12-14	8:36	15:59	-30	-5	10632	10992	X						X	X				
PCV-IA2-BS	1	8:41	15:56	-29	-4	9700	10718	X						X	X				
PCV-IAPC-BS	1	8:27	15:59	-30	-5	09947	10119	X						X	X				

Sampled by :

Jennifer Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		47°F
Stop		50°F

Temperatures @ sample locations
PCV-IA1-BS - 69°F
PCV-IA2-BS - 70°F
PCV-IAPC-BS - 70°F

Jennifer Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		29.57
Stop		29.21

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: 3/13/14 17:22	Received by:
Relinquished by: B. Sennie	Date/Time: 03-14-14 17:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Jennifer Christoffel	5 of 6 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Stuyvestant Town In	Analysis Turnaround Time		
Site/location: Stuyvestant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 fCon Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (Composite/Grab)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
AMB-1	3/13/14	0937	1625	-29	-6	10360	10512	X						X		X			32 °F
AMB-3	3/13/14	0935	1706	-30	-6	09913	09607	X						X		X			32 °F
IA1-E19	3/13/14	0921	1618	-29	-5	10668	10103	X						X	X				65 °F
IA2-E19	3/13/14	0925	~~1618~~ 1618	-30	~~-8~~ -5	10622	09672	X						X	X				65° F
IA1-E17	3/13/14	0848	1517	-30	-5	4205	10120	X						X	X				73° F
IA1FD-E17	3/13/14	0940	1645	-30	-8	09555	10276	X						X	X				73 °F

Sampled by :

J. Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		21°F
Stop		32°F

J. Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		29.48
Stop		29.74

Special Instructions/QC Requirements & Comments:

Other = Room temp of canisters | outdoor temp of canisters (for ambient)

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: ~~3/12/14~~ 3/13/14 17:22	Received by:
Relinquished by: B. Sonnier	Date/Time: 03-14-14- 14:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	6 of 6 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8418			
Project Name: Stuyvesant Town IA	Analysis Turnaround Time		
Site/location: Stuyvestant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Cor Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type (composite)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA2-E17	3/13/14	0851	1618	-29	-5	10659	10038	X						X	X				71 °F

Sampled by : J. Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		21 °F
Stop		32°F

J. Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		29.48
Stop		29.74

Special Instructions/QC Requirements & Comments:

other = Temp of room canister was sampled in.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/17/14 17:17	Received by:
Relinquished by: B. Sonni	Date/Time: 03-14-14 14:00	Received by: 3-17-14 11:15

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063

List Source: TestAmerica Knoxville

List Number: 1

Creator: Dameron, Bryan K

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	CHECKED IN LAB
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063

List Source: TestAmerica Knoxville

List Number: 2

Creator: Dameron, Bryan K

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		

Appendix D

Data Usability Study Report (DUSR)

(Provided on CD)

AECOM Environment

Submitted to:
ConEd
New York, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60313314-500
April 2014

April 17, 2014

Data Usability Summary Report
East 21st Street Former MGP Site
TestAmerica-Knoxville Air Data
March 2014 Sampling Event
Final

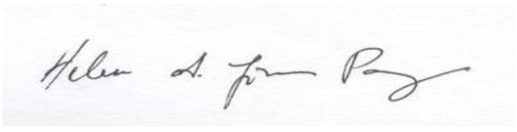
AECOM Environment

Submitted to:
ConEd
New York, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60313314-500
April 2014

Data Usability Summary Report East 21st Street Former MGP Site TestAmerica-Knoxville Air Data March 2014 Sampling Event Final

Prepared By
Gregory Malzone, Project Chemist
AECOM
Gulf Tower
707 Grant Street, 5th floor
Pittsburgh, PA 15219



Reviewed By
Helen Jones-Parry, Project Chemist
AECOM
250 Apollo Drive
Chelmsford, MA 01824

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Appendix B Data Qualification Summaries

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Executive Summary

Overview

Indoor and ambient air sampling events were conducted at the ConEd/East 21st Street, Former MGP site on March 10-14, 2014. The samples were analyzed by TestAmerica Laboratories, Inc., 5815 Middlebrook Pike, Knoxville, TN, 37921 (TestAmerica-Knoxville) using the following method as requested on the chain-of-custody (CoC) records.

- Volatile Organic Compounds by USEPA Compendium Method TO-15.

The data were evaluated for conformance to method specifications in *Compendium of Methods for the Determination of Toxic Organic Compounds in Air, Compendium Method TO-15: Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999 and qualifiers were applied using the validation criteria set forth in the *USEPA Region II Validation Standard Operating Procedure for Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15* SOP# HW-31, Revision #4, October, 2006 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999, as they apply to the analytical method employed.

The project samples are listed in Table 1 below.

Table 1
Sample Submittals
ConEd/East 21st Street Former MGP Site

Field ID	TestAmerica ID	Matrix	Date Sampled
PCV-IA1-B10	140-1037-1	Indoor Air	3/10/2014
PCV-IA2-B10	140-1037-2	Indoor Air	3/10/2014
PCV-IA3-B10	140-1037-3	Indoor Air	3/10/2014
PCV-IALC-B10	140-1037-4	Indoor Air	3/10/2014
PCV-AMB-2	140-1037-5	Ambient Air	3/10/2014
PCV-IA2-B16	140-1037-6	Indoor Air	3/10/2014
PCV-IA1-B16	140-1037-7	Indoor Air	3/10/2014
PCV-IA3-B16	140-1037-8	Indoor Air	3/10/2014
PCV-IA2-B18	140-1037-9	Indoor Air	3/10/2014
PCV-IA3-B18	140-1037-10	Indoor Air	3/10/2014
PCV-IA1-B18	140-1037-11	Indoor Air	3/10/2014
PCV-IATC-B18	140-1037-12	Indoor Air	3/10/2014
PCV-AMB-1	140-1037-13	Ambient Air	3/10/2014
PCV-IA3-B21	140-1054-1	Indoor Air	3/10/2014
PCV-IA2-B19	140-1054-2	Indoor Air	3/10/2014
PCV-IA1-B21	140-1054-3	Indoor Air	3/10/2014

Table 1
Sample Submittals (Continued)
ConEd/East 21st Street Former MGP Site

Field ID	TestAmerica ID	Matrix	Date Sampled
PCV-IA1-B19	140-1054-4	Indoor Air	3/10/2014
PCV-IA3-B19	140-1054-5	Indoor Air	3/10/2014
PCV-IA2-B21	140-1054-6	Indoor Air	3/10/2014
PCV-IA1-B1	140-1041-1	Indoor Air	3/11/2014
PCV-IA1-B1	140-1041-2	Indoor Air	3/11/2014
PCV-IA1-B2	140-1041-3	Indoor Air	3/11/2014
PCV-IA2-B2	140-1041-4	Indoor Air	3/11/2014
PCV-IA1-B13	140-1041-5	Indoor Air	3/11/2014
PCV-IA2-B13	140-1041-6	Indoor Air	3/11/2014
PCV-IA3-B13	140-1041-7	Indoor Air	3/11/2014
PCV-AMB-3	140-1041-8	Ambient Air	3/11/2014
PCV-IA1-B14	140-1041-9	Indoor Air	3/11/2014
PCV-IA1FD-B14	140-1041-10	Indoor Air (QC)	3/11/2014
PCV-IA2-B14	140-1041-11	Indoor Air	3/11/2014
PCV-IA1-B4	140-1041-12	Indoor Air	3/11/2014
PCV-IA1-B3	140-1041-13	Indoor Air	3/11/2014
PCV-IA2-B3	140-1041-14	Indoor Air	3/11/2014
PCV-IA3-B3	140-1041-15	Indoor Air	3/11/2014
PCV-AMB-4	140-1041-17	Ambient Air	3/11/2014
PCV-IA1-B12	140-1051-1	Indoor Air	3/12/2014
PCV-IA2-B12	140-1051-2	Indoor Air	3/12/2014
PCV-IA3-B12	140-1051-3	Indoor Air	3/12/2014
PCV-AMB-5	140-1051-4	Ambient Air	3/12/2014
PCV-AMB-6	140-1051-5	Ambient Air	3/12/2014
PCV-IA2-B7	140-1063-8	Indoor Air	3/12/2014
PCV-IA3-B7	140-1063-9	Indoor Air	3/12/2014
PCV-IA1-B11	140-1063-10	Indoor Air	3/12/2014
PCV-IA2-B11	140-1063-11	Indoor Air	3/12/2014
PCV-IA3-B11	140-1063-12	Indoor Air	3/12/2014
PCV-IA1-B5	140-1063-16	Indoor Air	3/12/2014
PCV-IA2-B5	140-1063-17	Indoor Air	3/12/2014
PCV-IAPC-B5	140-1063-18	Ambient Air	3/12/2014
PCV-IA1-B7	140-1060-1	Indoor Air	3/14/2014
PCV-IA2-B4	140-1060-2	Indoor Air	3/14/2014
PCV-IA1-B6	140-1060-3	Indoor Air	3/14/2014
PCV-IA2-B6	140-1060-4	Indoor Air	3/14/2014
PCV-IA1-B15	140-1060-5	Indoor Air	3/14/2014
PCV-IA2-B15	140-1060-6	Indoor Air	3/14/2014

Table 1
Sample Submittals (Continued)
ConEd/East 21st Street Former MGP Site

Field ID	TestAmerica ID	Matrix	Date Sampled
PCV-IA3-B15	140-1060-7	Indoor Air	3/14/2014
PCV-AMB-7	140-1060-8	Ambient Air	3/14/2014
PCV-IA1-B17	140-1060-9	Indoor Air	3/14/2014
PCV-IA2-B17	140-1060-10	Indoor Air	3/14/2014
PCV-IA3FD-B17	140-1060-11	Indoor Air (QC)	3/14/2014
PCV-IA3-B17	140-1060-12	Indoor Air	3/14/2014
PCV-IA4-B17	140-1060-13	Indoor Air	3/14/2014
PCV-IA5-B17	140-1060-14	Indoor Air	3/14/2014
PCV-IA1-B9	140-1060-15	Indoor Air	3/14/2014
PCV-IA1FD-B9	140-1060-16	Indoor Air (QC)	3/14/2014
PCV-IA2-B9	140-1060-17	Indoor Air	3/14/2014
PCV-IA1-B8	140-1060-18	Indoor Air	3/14/2014
PCV-IA1FD-B8	140-1060-19	Indoor Air (QC)	3/14/2014
PCV-IA2-B8	140-1060-20	Indoor Air	3/14/2014
PCV-IA1-B20	140-1060-21	Indoor Air	3/14/2014
PCV-IA2-B20	140-1060-22	Indoor Air	3/14/2014
PCV-IA3-B20	140-1060-23	Indoor Air	3/14/2014
PCV-AMB-8	140-1060-24	Ambient Air	3/14/2014

Summary

Data quality for the air and soil vapor analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, clean canister certification records, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air) with the qualifications described below. No data points were rejected. Completeness of 100% was achieved for this data set. The data qualification summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each nonconformance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

140-1037-1

Sample Custody and Integrity: The following sample(s) were listed on the CoC however; the sample(s) were not received at TestAmerica-Knoxville: PCV-IA3-B21, PCV-IA2-B19, PCV-IA1-B21, PCV-IA1-B19, PCV-IA3-B19, and PCV-IA2-B21.

Calibrations: The 01/28/14 initial calibration relative standard deviation (RSD) for 2-butanone was greater than the quality control limit of 30% on instrument ME. All samples within this sample delivery group were affected. All 2-butanone samples were positive for 2-butanone except for sample PCV-IATC-B18. The positive 2-butanone results were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

Dilutions: Sample PCV-IA2-B10 required analysis at a dilution to bring the isopropyl alcohol concentration into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualification was required.

Sample PCV-IA2-B18 required analysis at a dilution to bring the ethanol concentration into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualification was required.

140-1041-1

Sample Custody and Integrity: The canister for sample PCV-IA2-B4 (140-1041-16) was received with the valve removed. This sample could not be analyzed and was canceled.

Canister Certification Contamination: Tetrachloroethene was detected in canisters 10332 (PCV-IA2-B13) at 0.065 ppb v/v and in canister 10247 (PCV-IA3-B3) at 0.061 ppb v/v. The tetrachloroethene results for samples PCV-IA2-B13 and PCV-IA3-B3 were estimated below the reporting limits and were less than five times the blank levels. The tetrachloroethene results for samples PCV-IA2-B13 and PCV-IA3-B3 (140-1041-6 and 140-1041-15) were qualified "U," as undetected at the reporting limit, because of canister contamination.

Calibrations: The 01/28/14 initial calibration RSD for 2-butanone was greater than the quality control limit of 30% on instrument ME. All samples within this sample delivery group were affected. All samples were positive for 2-butanone. The positive 2-butanone results were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent difference for trichlorofluoromethane was greater than the upper method specification limit of 20% on 03/14/14 at 09:55 on instrument ME. All samples within this sample delivery group were affected. All samples were positive for trichlorofluoromethane. The positive trichlorofluoromethane results were qualified "J," as estimated concentrations, because of the high instrument bias.

Laboratory Control Sample Recoveries: The trichlorofluoromethane recovery was greater than the upper quality control limit of 130% for LCS 140-958/1002. All samples within this sample delivery group

were affected. All samples were positive for trichlorofluoromethane. The positive trichlorofluoromethane results were qualified "J," as estimated concentrations, because of the high instrument/method bias.

Dilutions: Samples PCV-IA2-B13 and PCV-IA3-B13 required analysis at a dilution to bring the acetone and toluene concentrations into the calibration range. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits. No data qualification was required.

140-1051-1

Calibrations: The 01/28/14 initial calibration RSD for 2-butanone was greater than the quality control limit of 30% on instrument ME. All samples within this sample delivery group were affected. All samples were positive for 2-butanone. The positive 2-butanone results were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent differences for Freon-114, bromomethane, chloroethane and trichlorofluoromethane were greater than the upper method specification limit of 20% on 03/17/14 at 14:10 on instrument ME. All samples within this sample delivery group were affected. The trichlorofluoromethane results for samples PCV-IA1-B12, PCV-IA2-B12, PCV-IA3-B12, PCV-AMB-5 and PCV-AMB-6 and the bromomethane result for sample PCV-AMB-6 were positive and were qualified "J," as estimated concentrations, because of the high instrument bias. Non-detect results were not qualified on this basis.

Laboratory Control Sample Recoveries: The Freon-114, bromomethane, chloroethane and trichlorofluoromethane recoveries were greater than the upper quality control limit of 130% for LCS 140-967/1002. All samples within this sample delivery group were affected. The trichlorofluoromethane results for samples PCV-IA1-B12, PCV-IA2-B12, PCV-IA3-B12, PCV-AMB-5 and PCV-AMB-6 and the bromomethane result for sample PCV-AMB-6 were positive and were qualified "J," as estimated concentrations, because of the high instrument/method bias. Non-detect results were not qualified on this basis.

Dilutions: Sample PCV-IA2-B12 required analysis at a dilution to bring the ethanol concentration into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualification was required.

140-1054-1

Sample Custody and Integrity: An inadvertent transcription error caused the canister ID for sample PCV-IA3-B19 to be written as "09822" on the CoC. The correct canister ID for sample PCV-IA3-B19 was "09872."

Calibrations: The 01/28/14 initial calibration RSD for 2-butanone was greater than the quality control limit of 30% on instrument ME. All samples within this sample delivery group were affected. All samples were positive for 2-butanone within this sample delivery group except for sample PCV-IA1-B19. The positive 2-butanone results were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent difference for trichlorofluoromethane was greater than the upper method specification limit of 20% on 03/14/14 at 09:55 on instrument ME. The trichlorofluoromethane

results for associated samples PCV-IA3-B21, PCV-IA2-B19, PCV-IA1-B21 and PCV-IA1-B19 were positive and were qualified "J," as estimated concentrations, because of the high instrument bias.

The continuing calibration percent differences for Freon-114, bromomethane, chloroethane and trichlorofluoromethane were greater than the upper method specification limit of 20% on 03/17/14 at 14:10 on instrument ME. The trichlorofluoromethane results for samples PCV-IA3-B19 and PCV-IA2-B21 and the bromomethane result for sample PCV-IA2-B21 were positive and were qualified "J," as estimated concentrations, because of the high instrument bias. Non-detect results were not qualified on this basis.

Laboratory Control Sample Recoveries: The trichlorofluoromethane recovery was greater than the upper quality control limit of 130% for LCS 140-958/1002. The trichlorofluoromethane results for associated samples PCV-IA3-B21, PCV-IA2-B19, PCV-IA1-B21 and PCV-IA1-B19 were positive and were qualified "J," as estimated concentrations, because of the high instrument/method bias.

The Freon-114, bromomethane, chloroethane and trichlorofluoromethane recoveries were greater than the upper quality control limit of 130% for LCS 140-967/1002. The trichlorofluoromethane results for associated samples PCV-IA3-B19 and PCV-IA2-B21 and the bromomethane result for sample PCV-IA2-B21 were positive and were qualified "J," as estimated concentrations, because of the high instrument/method bias. Non-detect results were not qualified on this basis.

140-1060-1

Canister Certification Contamination: 4-Methyl-2-pentanone was detected in canister 09629 (PCV-IA1-B15) at 0.20 ppb v/v. The 4-methyl-2-pentanone result for sample PCV-IA1-B15 was estimated below the reporting limit and was less than five times the blank level. The 4-methyl-2-pentanone result for sample PCV-IA1-B15 was qualified "U," as undetected at the reporting limit, because of canister contamination.

Sample Custody and Integrity: Inadvertent transcription errors caused the canister sampling and identification information for samples PCV-IA1-B17, PCV-IA2-B17, PCV-IA3-B17, PCV-IA3FD-B17, PCV-IA4-B17 and PCV-IA5-B17 to be omitted or entered incorrectly on the CoC. Photographs of the sample tags were attached to the CoC record in Appendix C. The canister tag information agrees with the TestAmerica-Knoxville log-in records.

The final vacuum measurements, as measured upon receipt by TestAmerica-Knoxville, were 0 "Hg, for samples PCV-IA1-B15, PCV-IA3-B17, PCV-IA4-B17, PCV-IA1-B9 and PCV-IA2-B9. The vacuum measurements indicate that there was inadequate differential pressure to drive the flow controller. It cannot be determined that the desired sampling interval was achieved before the canister arrived at ambient conditions. TestAmerica-Knoxville determined that the sample canisters could still be analyzed because no leaks were detected. The canisters still contained sample from the site. Based on professional judgment, the positive and non-detect results for samples PCV-IA1-B15, PCV-IA3-B17, PCV-IA4-B17, PCV-IA1-B9 and PCV-IA2-B9 were qualified "J" and "UJ," respectively, as estimates.

The residual vacuum measurements taken upon receipt at TestAmerica-Knoxville for samples PCV-IA1-B17 and PCV-IA2-B17 were 0.5 psi and 0.6 psi, respectively. These were slightly positive pressure readings upon receipt at TestAmerica-Knoxville. It is uncertain whether the required sampling interval was achieved before the canisters arrived at near ambient conditions. There was inadequate differential pressure to drive the flow controller approaching 0.0 "Hg. TestAmerica determined that the sample

canisters could still be analyzed because no leaks were detected. The canisters still contained sample from the site. Based on professional judgment, all positive and non-detect results for sample PCV-IA1-B17 and PCV-IA2-B17 were qualified "J" and "UJ," as estimates, because of the sample integrity issue.

The residual vacuum measurement taken upon receipt at TestAmerica-Knoxville for sample PCV-IA3-B20 was greater than -10 "Hg at -11.9 "Hg. The canister was less than half full upon receipt at TestAmerica-Knoxville. The required sampling interval was not achieved. TestAmerica-Knoxville determined that the sample canister could still be analyzed because no leaks were detected. The canister still contained sample from the site. TestAmerica-Knoxville analyzed a larger aliquot of sample (332 mls instead of the routine 200 mls) to achieve the low-level reporting limits and MDLs. No data qualifications were required.

Calibrations: The 01/28/14 initial calibration RSD for 2-butanone was greater than the quality control limit of 30% on instrument ME. Samples PCV-IA1-B7, PCV-IA2-B4, PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were affected. The positive 2-butanone results were qualified "J," as estimated concentrations, because of the nonconforming initial calibration. The non-detect 2-butanone results were not qualified on this basis.

The 03/11/14 initial calibration RSD for acetone was greater than the quality control limit of 30% on instrument MJ. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were affected. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were positive for acetone and were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent differences for Freon-114, bromomethane, chloroethane and trichlorofluoromethane were greater than the upper method specification limit of 20% on 03/17/14 at 14:10 on instrument ME. Samples PCV-IA1-B7 and PCV-IA2-B4 were affected. The trichlorofluoromethane results for samples PCV-IA1-B7 and PCV-IA2-B4 were positive and were qualified "J," as estimated concentrations, because of the high instrument bias. Non-detect results were not qualified on this basis.

The continuing calibration percent differences for 2-methylpentane, tetrahydrofuran and 4-methyl-2-pentanone were less than the lower method specification limit of -20% on 03/20/14 at 13:10 on instrument ME. Samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were affected. The positive and non-detect 2-methylpentane, tetrahydrofuran and 4-methyl-2-pentanone results for samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were qualified "J/UJ," as estimates, because of the low instrument bias.

The continuing calibration percent differences for bromoform, 1,2,4-trichlorobenzene, naphthalene and hexachlorobutadiene were greater than the upper method specification limit of 20% on 03/20/14 at 13:10 on instrument ME. Samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were affected. The naphthalene result for sample PCV-IA5-B17 was positive and was qualified "J,"

as an estimated concentration, because of the high instrument bias. Non-detect results were not qualified on this basis.

The continuing calibration percent difference for acetone was less than the lower method specification limit of -20% on 03/21/14 at 11:30 on instrument MJ. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were affected. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were positive for acetone and were qualified "J," as estimated concentrations, because of the low instrument/method bias.

Laboratory Control Sample Recoveries: The LCS 140-967/1002 recoveries for Freon-114, bromomethane, chloroethane and trichlorofluoromethane were greater than the upper quality control limit of 130%. Samples PCV-IA1-B7 and PCV-IA2-B4 were affected. The trichlorofluoromethane results for samples PCV-IA1-B7 and PCV-IA2-B4 were positive and were qualified "J," as estimated concentrations, because of the high instrument/method bias. Non-detect results were not qualified on this basis.

The LCS 140-977/1002 recoveries for 2-methylpentane, tetrahydrofuran and 4-methyl-2-pentanone were less than the lower quality control limit of 70%, but greater than 10%. Samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were affected. The positive and non-detect 2-methylpentane, tetrahydrofuran and 4-methyl-2-pentanone results for samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were qualified "J/UJ," as estimates, because of the low instrument/method bias.

The LCS 140-977/1002 recoveries for bromoform, 1,2,4-trichlorobenzene, naphthalene and hexachlorobutadiene were greater than the upper quality control limit of 130%. Samples PCV-IA1-B6, PCV-IA2-B6, PCV-IA1-B15, PCV-IA2-B15, PCV-IA3-B15, PCV-AMB-7, PCV-IA1-B17, PCV-IA2-B17, PCV-IA3FD-B17, PCV-IA3-B17, PCV-IA4-B17, PCV-IA5-B17, PCV-IA1-B9, PCV-IA1FD-B9, PCV-IA2-B9, PCV-IA1-B8, PCV-IA1FD-B8 and PCV-IA2-B8 were affected. The naphthalene result for sample PCV-IA5-B17 was positive and was qualified "J," as an estimated concentration, because of the high instrument bias. Non-detect results were not qualified on this basis.

The LCS 140-984/1002 recovery for acetone was less than the lower quality control limit of 70%, but greater than 10%. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were affected. Samples PCV-IA1-B20, PCV-IA2-B20, PCV-IA3-B20 and PCV-AMB-8 were positive for acetone and were qualified "J," as estimated concentrations, because of the low instrument/method bias.

Dilutions: Samples PCV-IA1-B9, PCV-IA1FD-B9 and PCV-IA2-B20 required analysis at a dilution to bring the ethanol concentration into the calibration range. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits. No data qualifications were required.

Samples PCV-IA1-B8 and PCV-IA1FD-B8 required analysis at a dilution to bring the m&p-xylene concentration into the calibration range. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits. No data qualifications were required.

140-1063-1

Sample Custody and Integrity: The residual vacuum measurement taken upon receipt at TestAmerica-Knoxville for sample PCV-IA3-B11 was greater than -10 “Hg at -11 “Hg. The canister was less than half full upon receipt at TestAmerica-Knoxville. The required sampling interval was not achieved. TestAmerica-Knoxville determined that the sample canister could still be analyzed because no leak was detected. The canister still contained sample from the site. TestAmerica-Knoxville analyzed a larger sample aliquot to achieve the low-level reporting limits and MDLs. No data qualifications were required.

Calibrations: The 03/11/14 initial calibration RSD for acetone was greater than the quality control limit of 30% on instrument MJ. The acetone results for all samples within this sample delivery group except for sample PCV-IA2-B5 were affected. All associated sample acetone results were positive and were qualified “J,” as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent differences for acetone were less than the lower method specification limit of -20% on 03/18/14 at 10:16 and on 03/21/14 at 11:30 on instrument MJ. Samples PCV-IA2-B7, PCV-IA3-B7, PCV-IA1-B11, PCV-IA2-B11, PCV-IA3-B11, PCV-IA1-B5, PCV-IA2-B5 and PCV-IAPC-B5 were affected. Samples PCV-IA2-B7, PCV-IA3-B7, PCV-IA1-B11, PCV-IA2-B11, PCV-IA3-B11, PCV-IA1-B5, PCV-IA2-B5 and PCV-IAPC-B5 were positive for acetone and were qualified “J,” as estimated concentrations, because of the low instrument/method bias.

Laboratory Control Sample Recoveries: The LCS 140-971/1002 and LCS 140-984/1002 recoveries for acetone were less than the lower quality control limit of 70%, but greater than 10%. Samples PCV-IA2-B7, PCV-IA3-B7, PCV-IA1-B11, PCV-IA2-B11, PCV-IA3-B11, PCV-IA1-B5, PCV-IA2-B5 and PCV-IAPC-B5 were affected. Samples PCV-IA2-B7, PCV-IA3-B7, PCV-IA1-B11, PCV-IA2-B11, PCV-IA3-B11, PCV-IA1-B5, PCV-IA2-B5 and PCV-IAPC-B5 were positive for acetone and were qualified “J,” as estimated concentrations, because of the low instrument/method bias.

Dilutions: Sample PCV-IA1-B5 required analysis at a dilution to bring the acetone, ethanol and toluene concentrations into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualifications were required.

Sample PCV-IA2-B5 required analysis at a dilution to bring the acetone and toluene concentrations into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualifications were required.

Sample PCV-IAPC-B5 required analysis at a dilution to bring the ethanol and methylene chloride concentrations into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualifications were required.

2.0 Field Duplicate Comparison

A field duplicate sample was collected for PCV-IA1-B14, PCV-IA3-B17, PCV-IA1-B9 and PCV-IA1-B8. The results for the parent and field duplicate samples were non-detects, with exception to those compounds listed in Tables 2A to 2D below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 25% for results greater than or equal to five times the reporting limit. If one of the results is non-detect or less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to the reporting limit.

Action applies only to the affected analyte in the organic duplicate sample pair. The primary and field duplicate results in bolded text required qualification (i.e., "J/UJ") as estimates, because of field sampling and/or laboratory imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

NC: The RPD could not be calculated.

ppb v/v: Part per billion by volume

±RL: The difference between the parent and field duplicate results was less than or equal to the reporting limit for results up to five times the reporting limit. Variation of this magnitude is acceptable.

Table 2A
Field Duplicate Precision
ConEd/East 21st Street Former MGP Site

Parameter	PCV-IA1-B14		PCV-IA1FD-B14		RPD (%)	Qual
Freon-113	0.071 J	ppb v/v	0.070 J	ppb v/v	1.4	
1,4-Dichlorobenzene	0.37	ppb v/v	0.42	ppb v/v	13	
2,2,4-Trimethylpentane	0.045 J	ppb v/v	0.048 J	ppb v/v	6.5	
2-Butanone	0.25 J	ppb v/v	0.35 J	ppb v/v	33	±RL
2-Methylbutane	0.69	ppb v/v	0.73	ppb v/v	5.6	
4-Methyl-2-pentanone	0.32 J	ppb v/v	0.084 J	ppb v/v	117	±RL
Acetone	2.7 J	ppb v/v	3.5 J	ppb v/v	26	±RL
Benzene	0.19 J	ppb v/v	0.20	ppb v/v	5.1	
Carbon tetrachloride	0.065 J	ppb v/v	0.072 J	ppb v/v	10	
Chloromethane	0.60	ppb v/v	0.49 J	ppb v/v	20	
Cyclohexane	0.50 U	ppb v/v	0.043 J	ppb v/v	NC	±RL
Freon-12	0.46	ppb v/v	0.50	ppb v/v	8.3	
Ethanol	12	ppb v/v	13	ppb v/v	8.0	
Heptane	0.061 J	ppb v/v	0.075 J	ppb v/v	21	
Hexane	0.15 J	ppb v/v	0.14 J	ppb v/v	6.9	
Isopropyl alcohol	1.1 J	ppb v/v	1.2 J	ppb v/v	8.7	
Methylene chloride	0.39 J	ppb v/v	0.43 J	ppb v/v	10	
m&p-Xylene	0.13 J	ppb v/v	0.13 J	ppb v/v	0	
Propene	0.95	ppb v/v	1.1	ppb v/v	15	
Tetrachloroethene	0.067 J	ppb v/v	0.067 J	ppb v/v	0	
Toluene	0.27	ppb v/v	0.27	ppb v/v	0	
Freon-11	0.26	ppb v/v	0.27	ppb v/v	3.8	

Table 2B
Field Duplicate Precision
ConEd/East 21st Street Former MGP Site

Parameter	PCV-IA3-B17		PCV-IA3FD-B17		RPD (%)	Qual
Freon-113	0.083 J	ppb v/v	0.067 J	ppb v/v	21	
1,3-Butadiene	0.10 J	ppb v/v	0.076 J	ppb v/v	27	±RL
2,2,4-Trimethylpentane	0.051 J	ppb v/v	0.044 J	ppb v/v	15	
2-Butanone	0.43 J	ppb v/v	0.50 U	ppb v/v	NC	±RL
2-Methylbutane	0.97	ppb v/v	0.80	ppb v/v	19	
4-Methyl-2-pentanone	0.059 J	ppb v/v	0.054 J	ppb v/v	8.8	
Acetone	5.0	ppb v/v	2.6 J	ppb v/v	63	±RL
Benzene	0.24	ppb v/v	0.18 J	ppb v/v	29	±RL
Bromomethane	0.047 J	ppb v/v	0.20 U	ppb v/v	NC	±RL
Carbon tetrachloride	0.088 J	ppb v/v	0.073 J	ppb v/v	19	
Chloroform	0.085 J	ppb v/v	0.098 J	ppb v/v	14	
Chloromethane	0.51	ppb v/v	0.41 J	ppb v/v	22	
Cyclohexane	0.50 U	ppb v/v	0.046 J	ppb v/v	NC	±RL
Freon-12	0.51	ppb v/v	0.45	ppb v/v	13	
Ethanol	12	ppb v/v	13	ppb v/v	8.0	
Heptane	0.060 J	ppb v/v	0.50 U	ppb v/v	NC	±RL
Hexane	0.12 J	ppb v/v	0.15 J	ppb v/v	22	
Isopropyl alcohol	**5.4**	**ppb v/v**	**8.8**	**ppb v/v**	**48**	**J**
Methylene chloride	**3.1**	**ppb v/v**	**1.6**	**ppb v/v**	**64**	**J**
Propene	1.2	ppb v/v	0.92	ppb v/v	26	±RL
Tetrachloroethene	0.061 J	ppb v/v	0.052 J	ppb v/v	16	
Toluene	0.28	ppb v/v	0.16 J	ppb v/v	55	±RL
Freon-11	0.30	ppb v/v	0.28	ppb v/v	6.9	

Table 2C
Field Duplicate Precision
ConEd/East 21st Street Former MGP Site

Parameter	PCV-IA1-B9		PCV-IA1FD-B9		RPD (%)	Qual
Freon-113	0.074 J	ppb v/v	0.058 J	ppb v/v	24	
1,2,4-Trimethylbenzene	0.074 J	ppb v/v	0.092 J	ppb v/v	22	
1,3-Butadiene	0.18 J	ppb v/v	0.17 J	ppb v/v	5.7	
2,2,4-Trimethylpentane	0.17 J	ppb v/v	0.20 J	ppb v/v	16	
2-Methylbutane	0.81	ppb v/v	0.77	ppb v/v	5.1	
4-Methyl-2-pentanone	0.045 J	ppb v/v	0.50 U	ppb v/v	NC	±RL
Acetone	4.5 J	ppb v/v	3.3 J	ppb v/v	31	±RL
Benzene	0.22	ppb v/v	0.19 J	ppb v/v	15	
Carbon tetrachloride	0.080 J	ppb v/v	0.069 J	ppb v/v	15	
Chloroform	0.071 J	ppb v/v	0.064 J	ppb v/v	10	
Chloromethane	0.55	ppb v/v	0.48 J	ppb v/v	14	
Cyclohexane	0.053 J	ppb v/v	0.045 J	ppb v/v	16	
Freon-12	0.49	ppb v/v	0.43	ppb v/v	13	
Ethanol	280	ppb v/v	220	ppb v/v	24	
Ethylbenzene	2.2	ppb v/v	2.2	ppb v/v	0	
Heptane	0.073 J	ppb v/v	0.063 J	ppb v/v	15	
Hexane	0.11 J	ppb v/v	0.094 J	ppb v/v	16	
Isopropyl alcohol	5.9	ppb v/v	5.4	ppb v/v	8.8	
Methylene chloride	1.2	ppb v/v	0.99	ppb v/v	19	
m&p-Xylene	12	ppb v/v	12	ppb v/v	0	
o-Xylene	3.3	ppb v/v	3.2	ppb v/v	3.1	
Propene	1.4	ppb v/v	1.3	ppb v/v	7.4	
Tetrachloroethene	0.047 J	ppb v/v	0.051 J	ppb v/v	8.2	
Toluene	**3.3**	**ppb v/v**	**4.5**	**ppb v/v**	**31**	**J**
Freon-11	0.29	ppb v/v	0.24	ppb v/v	19	

Table 2D
Field Duplicate Precision
ConEd/East 21st Street Former MGP Site

Parameter	PCV-IA1-B8		PCV-IA1FD-B8		RPD (%)	Qual
Freon-113	0.077 J	ppb v/v	0.068 J	ppb v/v	12	
1,2,4-Trimethylbenzene	0.075 J	ppb v/v	0.069 J	ppb v/v	8.3	
1,3-Butadiene	0.069 J	ppb v/v	0.091 J	ppb v/v	27	±RL
2-Butanone	1.0 U	ppb v/v	0.23 J	ppb v/v	NC	±RL
2-Methylbutane	0.68	ppb v/v	0.97	ppb v/v	35	±RL
4-Methyl-2-pentanone	**0.11 J**	**ppb v/v**	**0.76**	**ppb v/v**	**149**	**J**
Acetone	2.8 J	ppb v/v	3.8 J	ppb v/v	30	±RL
Benzene	0.24	ppb v/v	0.25	ppb v/v	4.1	
Carbon tetrachloride	0.077 J	ppb v/v	0.074 J	ppb v/v	4.0	
Chloromethane	0.64	ppb v/v	0.60	ppb v/v	6.5	
Freon-12	0.52	ppb v/v	0.51	ppb v/v	1.9	
Ethanol	17	ppb v/v	21	ppb v/v	21	
Ethylbenzene	26	ppb v/v	31	ppb v/v	18	
Hexane	0.10 J	ppb v/v	0.16 J	ppb v/v	46	±RL
Isopropyl alcohol	0.76 J	ppb v/v	0.89 J	ppb v/v	16	
Methylene chloride	0.53	ppb v/v	0.78	ppb v/v	38	±RL
m&p-Xylene	**100**	**ppb v/v**	**130**	**ppb v/v**	**26**	**J**
o-Xylene	35	ppb v/v	41	ppb v/v	16	
Propene	0.79	ppb v/v	0.96	ppb v/v	19	
Tetrachloroethene	0.045 J	ppb v/v	0.20 U	ppb v/v	NC	±RL
Toluene	0.65	ppb v/v	0.78	ppb v/v	18	
Trichloroethene	0.042 J	ppb v/v	0.20 U	ppb v/v	NC	±RL
Freon-11	0.27	ppb v/v	0.28	ppb v/v	3.6	

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3.0 Notes

Data Reporting: Positive organic compound results less than the reporting limit (i.e., practical quantitation limit), but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit. These "J" qualifiers were maintained in this data validation.

Propene Quantitation: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. The positive propene results were qualified "J," as estimated concentrations, biased high because of matrix interference.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Client Sample ID: PCV-IA1-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/13/14 19:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 19:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 19:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 19:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 19:42	1
1,2,4-Trimethylbenzene	0.39		0.20	0.063	ppb v/v			03/13/14 19:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 19:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 19:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 19:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 19:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 19:42	1
1,3,5-Trimethylbenzene	0.092	J	0.20	0.065	ppb v/v			03/13/14 19:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 19:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 19:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 19:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 19:42	1
2,2,4-Trimethylpentane	0.052	J	0.50	0.039	ppb v/v			03/13/14 19:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v			03/13/14 19:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 19:42	1
2-Methylbutane	0.71		0.50	0.031	ppb v/v			03/13/14 19:42	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/13/14 19:42	1
4-Methyl-2-pentanone (MIBK)	0.20	J	0.50	0.045	ppb v/v			03/13/14 19:42	1
Acetone	3.5	J	5.0	1.4	ppb v/v			03/13/14 19:42	1
Benzene	0.24		0.20	0.056	ppb v/v			03/13/14 19:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 19:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 19:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 19:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 19:42	1
Carbon disulfide	0.044	J	0.50	0.031	ppb v/v			03/13/14 19:42	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/13/14 19:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 19:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 19:42	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 19:42	1
Chloromethane	0.65		0.50	0.16	ppb v/v			03/13/14 19:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 19:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 19:42	1
Cyclohexane	0.051	J	0.50	0.040	ppb v/v			03/13/14 19:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 19:42	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/13/14 19:42	1
Ethanol	60		2.0	2.0	ppb v/v			03/13/14 19:42	1
Ethylbenzene	0.24		0.20	0.068	ppb v/v			03/13/14 19:42	1
Heptane	0.10	J	0.50	0.047	ppb v/v			03/13/14 19:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 19:42	1

Client Sample ID: PCV-IA1-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.13	J	0.50	0.032	ppb v/v			03/13/14 19:42	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 19:42	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/13/14 19:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 19:42	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/13/14 19:42	1
m-Xylene & p-Xylene	1.0		0.20	0.12	ppb v/v			03/13/14 19:42	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 19:42	1
o-Xylene	0.41		0.20	0.061	ppb v/v			03/13/14 19:42	1
Propene	1.2	~~on~~ J	0.50	0.077	ppb v/v			03/13/14 19:42	1
Styrene	0.096	J	0.20	0.058	ppb v/v			03/13/14 19:42	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/13/14 19:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 19:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 19:42	1
Toluene	0.29		0.20	0.12	ppb v/v			03/13/14 19:42	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 19:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 19:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 19:42	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/13/14 19:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 19:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 19:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/13/14 19:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 19:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 19:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 19:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 19:42	1
1,2,4-Trimethylbenzene	1.9		0.98	0.31	ug/m3			03/13/14 19:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 19:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 19:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 19:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 19:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 19:42	1
1,3,5-Trimethylbenzene	0.45	J	0.98	0.32	ug/m3			03/13/14 19:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 19:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 19:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 19:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 19:42	1
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3			03/13/14 19:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 19:42	1
2-Butanone (MEK)	0.83	J	2.9	0.59	ug/m3			03/13/14 19:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 19:42	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/13/14 19:42	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 19:42	1
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/13/14 19:42	1
4-Methyl-2-pentanone (MIBK)	0.81	J	2.0	0.18	ug/m3			03/13/14 19:42	1

Client Sample ID: PCV-IA1-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.2	J	12	3.3	ug/m3			03/13/14 19:42	1
Benzene	0.75		0.64	0.18	ug/m3			03/13/14 19:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 19:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 19:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 19:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 19:42	1
Carbon disulfide	0.14	J	1.6	0.097	ug/m3			03/13/14 19:42	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/13/14 19:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 19:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 19:42	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 19:42	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/13/14 19:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 19:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 19:42	1
Cyclohexane	0.18	J	1.7	0.14	ug/m3			03/13/14 19:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 19:42	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/13/14 19:42	1
Ethanol	110		3.8	3.8	ug/m3			03/13/14 19:42	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/13/14 19:42	1
Heptane	0.41	J	2.0	0.19	ug/m3			03/13/14 19:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 19:42	1
Hexane	0.47	J	1.8	0.11	ug/m3			03/13/14 19:42	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 19:42	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 19:42	1
Isopropyl alcohol	3.4	J	4.9	0.23	ug/m3			03/13/14 19:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 19:42	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/13/14 19:42	1
m-Xylene & p-Xylene	4.5		0.87	0.52	ug/m3			03/13/14 19:42	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 19:42	1
o-Xylene	1.8		0.87	0.26	ug/m3			03/13/14 19:42	1
Propene	2.1	~~cn~~ J	0.86	0.13	ug/m3			03/13/14 19:42	1
Styrene	0.41	J	0.85	0.25	ug/m3			03/13/14 19:42	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/13/14 19:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 19:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 19:42	1
Toluene	1.1		0.75	0.45	ug/m3			03/13/14 19:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 19:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 19:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 19:42	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/13/14 19:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/13/14 19:42*	*1*

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 20:27	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.062	J	0.20	0.031	ppb v/v			03/13/14 20:27	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 20:27	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 20:27	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 20:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 20:27	1
1,2,4-Trimethylbenzene	0.49		0.20	0.063	ppb v/v			03/13/14 20:27	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 20:27	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 20:27	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 20:27	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 20:27	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 20:27	1
1,3,5-Trimethylbenzene	0.10	J	0.20	0.065	ppb v/v			03/13/14 20:27	1
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v			03/13/14 20:27	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 20:27	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 20:27	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 20:27	1
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v			03/13/14 20:27	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
2-Butanone (MEK)	0.45	J	1.0	0.20	ppb v/v			03/13/14 20:27	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 20:27	1
2-Methylbutane	1.0		0.50	0.031	ppb v/v			03/13/14 20:27	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v			03/13/14 20:27	1
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v			03/13/14 20:27	1
Acetone	6.0		5.0	1.4	ppb v/v			03/13/14 20:27	1
Benzene	0.24		0.20	0.056	ppb v/v			03/13/14 20:27	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 20:27	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 20:27	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 20:27	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 20:27	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 20:27	1
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v			03/13/14 20:27	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 20:27	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 20:27	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 20:27	1
Chloromethane	0.44	J	0.50	0.16	ppb v/v			03/13/14 20:27	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 20:27	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 20:27	1
Cyclohexane	0.065	J	0.50	0.040	ppb v/v			03/13/14 20:27	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 20:27	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/13/14 20:27	1
Ethanol	36		2.0	2.0	ppb v/v			03/13/14 20:27	1
Ethylbenzene	2.9		0.20	0.068	ppb v/v			03/13/14 20:27	1
Heptane	0.17	J	0.50	0.047	ppb v/v			03/13/14 20:27	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 20:27	1
Hexane	0.16	J	0.50	0.032	ppb v/v			03/13/14 20:27	1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 20:27	1
~~Isopropyl alcohol~~	~~82~~	~~E~~	~~2.0~~	~~0.094~~	~~ppb v/v~~			~~03/13/14 20:27~~	~~1~~
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 20:27	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/13/14 20:27	1
m-Xylene & p-Xylene	14		0.20	0.12	ppb v/v			03/13/14 20:27	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 20:27	1
o-Xylene	5.0		0.20	0.061	ppb v/v			03/13/14 20:27	1
Propene	1.3	~~cn~~ J	0.50	0.077	ppb v/v			03/13/14 20:27	1
Styrene	0.079	J	0.20	0.058	ppb v/v			03/13/14 20:27	1
Tetrachloroethene	0.040	J	0.20	0.040	ppb v/v			03/13/14 20:27	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 20:27	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 20:27	1
Toluene	0.42		0.20	0.12	ppb v/v			03/13/14 20:27	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 20:27	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 20:27	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 20:27	1
Trichlorofluoromethane	0.23		0.20	0.024	ppb v/v			03/13/14 20:27	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 20:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 20:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3			03/13/14 20:27	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 20:27	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 20:27	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 20:27	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 20:27	1
1,2,4-Trimethylbenzene	2.4		0.98	0.31	ug/m3			03/13/14 20:27	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 20:27	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 20:27	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 20:27	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 20:27	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 20:27	1
1,3,5-Trimethylbenzene	0.50	J	0.98	0.32	ug/m3			03/13/14 20:27	1
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3			03/13/14 20:27	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 20:27	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 20:27	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 20:27	1
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3			03/13/14 20:27	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 20:27	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/13/14 20:27	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 20:27	1
2-Methylbutane	3.0		1.5	0.091	ug/m3			03/13/14 20:27	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 20:27	1
4-Ethyltoluene	0.95	J	2.0	0.32	ug/m3			03/13/14 20:27	1
4-Methyl-2-pentanone (MIBK)	0.62	J	2.0	0.18	ug/m3			03/13/14 20:27	1
Acetone	14		12	3.3	ug/m3			03/13/14 20:27	1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.77		0.64	0.18	ug/m3			03/13/14 20:27	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 20:27	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 20:27	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 20:27	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 20:27	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 20:27	1
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3			03/13/14 20:27	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 20:27	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 20:27	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 20:27	1
Chloromethane	0.91	J	1.0	0.33	ug/m3			03/13/14 20:27	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 20:27	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 20:27	1
Cyclohexane	0.23	J	1.7	0.14	ug/m3			03/13/14 20:27	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 20:27	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/13/14 20:27	1
Ethanol	67		3.8	3.8	ug/m3			03/13/14 20:27	1
Ethylbenzene	13		0.87	0.30	ug/m3			03/13/14 20:27	1
Heptane	0.72	J	2.0	0.19	ug/m3			03/13/14 20:27	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 20:27	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/13/14 20:27	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 20:27	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 20:27	1
~~Isopropyl alcohol~~	~~200~~	~~E~~	~~4.9~~	~~0.23~~	~~ug/m3~~			~~03/13/14 20:27~~	~~1~~
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 20:27	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/13/14 20:27	1
m-Xylene & p-Xylene	61		0.87	0.52	ug/m3			03/13/14 20:27	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 20:27	1
o-Xylene	22		0.87	0.26	ug/m3			03/13/14 20:27	1
Propene	2.2	~~cR~~ J	0.86	0.13	ug/m3			03/13/14 20:27	1
Styrene	0.34	J	0.85	0.25	ug/m3			03/13/14 20:27	1
Tetrachloroethene	0.27	J	1.4	0.27	ug/m3			03/13/14 20:27	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 20:27	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 20:27	1
Toluene	1.6		0.75	0.45	ug/m3			03/13/14 20:27	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 20:27	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 20:27	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 20:27	1
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3			03/13/14 20:27	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/13/14 20:27*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	98		8.0	0.38	ppb v/v			03/14/14 07:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	240		20	0.92	ug/m3			03/14/14 07:46	1

Client Sample ID: PCV-IA2-B10
Date Collected: 03/10/14 14:00
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-2
Matrix: Air

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140		03/14/14 07:46	1

Client Sample ID: PCV-IA3-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 21:14	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 21:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/13/14 21:14	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 21:14	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 21:14	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 21:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 21:14	1
1,2,4-Trimethylbenzene	1.0		0.20	0.063	ppb v/v			03/13/14 21:14	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 21:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 21:14	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 21:14	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 21:14	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 21:14	1
1,3,5-Trimethylbenzene	0.21		0.20	0.065	ppb v/v			03/13/14 21:14	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 21:14	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 21:14	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 21:14	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 21:14	1
2,2,4-Trimethylpentane	0.072	J	0.50	0.039	ppb v/v			03/13/14 21:14	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
2-Butanone (MEK)	0.41	J	1.0	0.20	ppb v/v			03/13/14 21:14	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 21:14	1
2-Methylbutane	2.6		0.50	0.031	ppb v/v			03/13/14 21:14	1
2-Methylpentane	0.21		0.20	0.20	ppb v/v			03/13/14 21:14	1
4-Ethyltoluene	0.26	J	0.40	0.066	ppb v/v			03/13/14 21:14	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v			03/13/14 21:14	1
Acetone	3.9	J	5.0	1.4	ppb v/v			03/13/14 21:14	1
Benzene	0.49		0.20	0.056	ppb v/v			03/13/14 21:14	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 21:14	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 21:14	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 21:14	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 21:14	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 21:14	1
Carbon tetrachloride	0.091	J	0.20	0.038	ppb v/v			03/13/14 21:14	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 21:14	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 21:14	1
Chloroform	0.30		0.20	0.038	ppb v/v			03/13/14 21:14	1
Chloromethane	0.67		0.50	0.16	ppb v/v			03/13/14 21:14	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 21:14	1

Client Sample ID: PCV-IA3-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 21:14	1
Cyclohexane	0.14	J	0.50	0.040	ppb v/v			03/13/14 21:14	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 21:14	1
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v			03/13/14 21:14	1
Ethanol	35		2.0	2.0	ppb v/v			03/13/14 21:14	1
Ethylbenzene	0.56		0.20	0.068	ppb v/v			03/13/14 21:14	1
Heptane	0.22	J	0.50	0.047	ppb v/v			03/13/14 21:14	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 21:14	1
Hexane	0.26	J	0.50	0.032	ppb v/v			03/13/14 21:14	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 21:14	1
Isopropyl alcohol	36		2.0	0.094	ppb v/v			03/13/14 21:14	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 21:14	1
Methylene Chloride	1.5		0.50	0.13	ppb v/v			03/13/14 21:14	1
m-Xylene & p-Xylene	2.4		0.20	0.12	ppb v/v			03/13/14 21:14	1
Naphthalene	0.091	J	0.50	0.090	ppb v/v			03/13/14 21:14	1
o-Xylene	0.87		0.20	0.061	ppb v/v			03/13/14 21:14	1
Propene	1.4	~~cn~~ J	0.50	0.077	ppb v/v			03/13/14 21:14	1
Styrene	0.070	J	0.20	0.058	ppb v/v			03/13/14 21:14	1
Tetrachloroethene	0.041	J	0.20	0.040	ppb v/v			03/13/14 21:14	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 21:14	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 21:14	1
Toluene	2.0		0.20	0.12	ppb v/v			03/13/14 21:14	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 21:14	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 21:14	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 21:14	1
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v			03/13/14 21:14	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 21:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 21:14	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 21:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/13/14 21:14	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 21:14	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 21:14	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 21:14	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 21:14	1
1,2,4-Trimethylbenzene	5.1		0.98	0.31	ug/m3			03/13/14 21:14	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 21:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 21:14	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 21:14	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 21:14	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 21:14	1
1,3,5-Trimethylbenzene	1.0		0.98	0.32	ug/m3			03/13/14 21:14	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 21:14	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 21:14	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 21:14	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 21:14	1

Client Sample ID: PCV-IA3-B10
Date Collected: 03/10/14 16:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/13/14 21:14	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 21:14	1
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3			03/13/14 21:14	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 21:14	1
2-Methylbutane	7.8		1.5	0.091	ug/m3			03/13/14 21:14	1
2-Methylpentane	0.74		0.70	0.70	ug/m3			03/13/14 21:14	1
4-Ethyltoluene	1.3	J	2.0	0.32	ug/m3			03/13/14 21:14	1
4-Methyl-2-pentanone (MIBK)	0.53	J	2.0	0.18	ug/m3			03/13/14 21:14	1
Acetone	9.3	J	12	3.3	ug/m3			03/13/14 21:14	1
Benzene	1.6		0.64	0.18	ug/m3			03/13/14 21:14	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 21:14	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 21:14	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 21:14	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 21:14	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 21:14	1
Carbon tetrachloride	0.57	J	1.3	0.24	ug/m3			03/13/14 21:14	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 21:14	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 21:14	1
Chloroform	1.5		0.98	0.19	ug/m3			03/13/14 21:14	1
Chloromethane	1.4		1.0	0.33	ug/m3			03/13/14 21:14	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 21:14	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 21:14	1
Cyclohexane	0.48	J	1.7	0.14	ug/m3			03/13/14 21:14	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 21:14	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/13/14 21:14	1
Ethanol	66		3.8	3.8	ug/m3			03/13/14 21:14	1
Ethylbenzene	2.5		0.87	0.30	ug/m3			03/13/14 21:14	1
Heptane	0.91	J	2.0	0.19	ug/m3			03/13/14 21:14	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 21:14	1
Hexane	0.93	J	1.8	0.11	ug/m3			03/13/14 21:14	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 21:14	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 21:14	1
Isopropyl alcohol	88		4.9	0.23	ug/m3			03/13/14 21:14	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 21:14	1
Methylene Chloride	5.2		1.7	0.45	ug/m3			03/13/14 21:14	1
m-Xylene & p-Xylene	10		0.87	0.52	ug/m3			03/13/14 21:14	1
Naphthalene	0.48	J	2.6	0.47	ug/m3			03/13/14 21:14	1
o-Xylene	3.8		0.87	0.26	ug/m3			03/13/14 21:14	1
Propene	2.4	~~or~~ J	0.86	0.13	ug/m3			03/13/14 21:14	1
Styrene	0.30	J	0.85	0.25	ug/m3			03/13/14 21:14	1
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3			03/13/14 21:14	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 21:14	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 21:14	1
Toluene	7.4		0.75	0.45	ug/m3			03/13/14 21:14	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 21:14	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 21:14	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 21:14	1
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3			03/13/14 21:14	1

Client Sample ID: PCV-IA3-B10

Lab Sample ID: 140-1037-3

Date Collected: 03/10/14 16:15
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/13/14 21:14*	*1*

Client Sample ID: PCV-IALC-B10

Lab Sample ID: 140-1037-4

Date Collected: 03/10/14 16:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 21:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.060	J	0.20	0.031	ppb v/v			03/13/14 21:59	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 21:59	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 21:59	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 21:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 21:59	1
1,2,4-Trimethylbenzene	0.39		0.20	0.063	ppb v/v			03/13/14 21:59	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 21:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 21:59	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 21:59	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 21:59	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 21:59	1
1,3,5-Trimethylbenzene	0.091	J	0.20	0.065	ppb v/v			03/13/14 21:59	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 21:59	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 21:59	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 21:59	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 21:59	1
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v			03/13/14 21:59	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
2-Butanone (MEK)	0.39	J	1.0	0.20	ppb v/v			03/13/14 21:59	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 21:59	1
2-Methylbutane	0.72		0.50	0.031	ppb v/v			03/13/14 21:59	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v			03/13/14 21:59	1
4-Methyl-2-pentanone (MIBK)	0.16	J	0.50	0.045	ppb v/v			03/13/14 21:59	1
Acetone	5.3		5.0	1.4	ppb v/v			03/13/14 21:59	1
Benzene	0.22		0.20	0.056	ppb v/v			03/13/14 21:59	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 21:59	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 21:59	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 21:59	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 21:59	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 21:59	1
Carbon tetrachloride	0.057	J	0.20	0.038	ppb v/v			03/13/14 21:59	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 21:59	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 21:59	1

Client Sample ID: PCV-IALC-B10
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.12	J	0.20	0.038	ppb v/v			03/13/14 21:59	1
Chloromethane	0.45	J	0.50	0.16	ppb v/v			03/13/14 21:59	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 21:59	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 21:59	1
Cyclohexane	0.060	J	0.50	0.040	ppb v/v			03/13/14 21:59	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 21:59	1
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v			03/13/14 21:59	1
Ethanol	110		2.0	2.0	ppb v/v			03/13/14 21:59	1
Ethylbenzene	0.89		0.20	0.068	ppb v/v			03/13/14 21:59	1
Heptane	0.18	J	0.50	0.047	ppb v/v			03/13/14 21:59	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 21:59	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/13/14 21:59	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 21:59	1
Isopropyl alcohol	20		2.0	0.094	ppb v/v			03/13/14 21:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 21:59	1
Methylene Chloride	0.57		0.50	0.13	ppb v/v			03/13/14 21:59	1
m-Xylene & p-Xylene	4.3		0.20	0.12	ppb v/v			03/13/14 21:59	1
Naphthalene	0.47	J	0.50	0.090	ppb v/v			03/13/14 21:59	1
o-Xylene	1.5		0.20	0.061	ppb v/v			03/13/14 21:59	1
Propene	1.4	~~en~~ J	0.50	0.077	ppb v/v			03/13/14 21:59	1
Styrene	0.12	J	0.20	0.058	ppb v/v			03/13/14 21:59	1
Tetrachloroethene	0.069	J	0.20	0.040	ppb v/v			03/13/14 21:59	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 21:59	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 21:59	1
Toluene	0.66		0.20	0.12	ppb v/v			03/13/14 21:59	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 21:59	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 21:59	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 21:59	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/13/14 21:59	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 21:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 21:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3			03/13/14 21:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 21:59	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 21:59	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 21:59	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 21:59	1
1,2,4-Trimethylbenzene	1.9		0.98	0.31	ug/m3			03/13/14 21:59	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 21:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 21:59	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 21:59	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 21:59	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 21:59	1
1,3,5-Trimethylbenzene	0.45	J	0.98	0.32	ug/m3			03/13/14 21:59	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 21:59	1

Client Sample ID: PCV-IALC-B10
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 21:59	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 21:59	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 21:59	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/13/14 21:59	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 21:59	1
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3			03/13/14 21:59	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 21:59	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/13/14 21:59	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 21:59	1
4-Ethyltoluene	0.63	J	2.0	0.32	ug/m3			03/13/14 21:59	1
4-Methyl-2-pentanone (MIBK)	0.64	J	2.0	0.18	ug/m3			03/13/14 21:59	1
Acetone	13		12	3.3	ug/m3			03/13/14 21:59	1
Benzene	0.69		0.64	0.18	ug/m3			03/13/14 21:59	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 21:59	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 21:59	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 21:59	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 21:59	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 21:59	1
Carbon tetrachloride	0.36	J	1.3	0.24	ug/m3			03/13/14 21:59	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 21:59	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 21:59	1
Chloroform	0.58	J	0.98	0.19	ug/m3			03/13/14 21:59	1
Chloromethane	0.92	J	1.0	0.33	ug/m3			03/13/14 21:59	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 21:59	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 21:59	1
Cyclohexane	0.21	J	1.7	0.14	ug/m3			03/13/14 21:59	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 21:59	1
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3			03/13/14 21:59	1
Ethanol	200		3.8	3.8	ug/m3			03/13/14 21:59	1
Ethylbenzene	3.9		0.87	0.30	ug/m3			03/13/14 21:59	1
Heptane	0.74	J	2.0	0.19	ug/m3			03/13/14 21:59	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 21:59	1
Hexane	0.51	J	1.8	0.11	ug/m3			03/13/14 21:59	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 21:59	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 21:59	1
Isopropyl alcohol	48		4.9	0.23	ug/m3			03/13/14 21:59	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 21:59	1
Methylene Chloride	2.0		1.7	0.45	ug/m3			03/13/14 21:59	1
m-Xylene & p-Xylene	19		0.87	0.52	ug/m3			03/13/14 21:59	1
Naphthalene	2.5	J	2.6	0.47	ug/m3			03/13/14 21:59	1
o-Xylene	6.6		0.87	0.26	ug/m3			03/13/14 21:59	1
Propene	2.5	~~on~~ J	0.86	0.13	ug/m3			03/13/14 21:59	1
Styrene	0.51	J	0.85	0.25	ug/m3			03/13/14 21:59	1
Tetrachloroethene	0.47	J	1.4	0.27	ug/m3			03/13/14 21:59	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 21:59	1
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 21:59	1
Toluene	2.5		0.75	0.45	ug/m3			03/13/14 21:59	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 21:59	1

Client Sample ID: PCV-IALC-B10

Lab Sample ID: 140-1037-4

Date Collected: 03/10/14 16:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 21:59	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 21:59	1
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3			03/13/14 21:59	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*03/13/14 21:59*	*1*

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

Date Collected: 03/10/14 15:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/13/14 22:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/13/14 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/13/14 22:44	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/13/14 22:44	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/13/14 22:44	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/13/14 22:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/13/14 22:44	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/13/14 22:44	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/13/14 22:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/13/14 22:44	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/13/14 22:44	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/13/14 22:44	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/13/14 22:44	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/13/14 22:44	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/13/14 22:44	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/13/14 22:44	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/13/14 22:44	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/13/14 22:44	1
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v			03/13/14 22:44	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v			03/13/14 22:44	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/13/14 22:44	1
2-Methylbutane	0.61		0.50	0.031	ppb v/v			03/13/14 22:44	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/13/14 22:44	1
4-Methyl-2-pentanone (MIBK)	0.061	J	0.50	0.045	ppb v/v			03/13/14 22:44	1
Acetone	1.8	J	5.0	1.4	ppb v/v			03/13/14 22:44	1
Benzene	0.21		0.20	0.056	ppb v/v			03/13/14 22:44	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/13/14 22:44	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/13/14 22:44	1
Bromoform	ND		0.20	0.048	ppb v/v			03/13/14 22:44	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/13/14 22:44	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/13/14 22:44	1

Client Sample ID: PCV-AMB-2
Date Collected: 03/10/14 15:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.062	J	0.20	0.038	ppb v/v			03/13/14 22:44	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/13/14 22:44	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/13/14 22:44	1
Chloroform	ND		0.20	0.038	ppb v/v			03/13/14 22:44	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/13/14 22:44	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/13/14 22:44	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/13/14 22:44	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/13/14 22:44	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/13/14 22:44	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/13/14 22:44	1
Ethanol	12		2.0	2.0	ppb v/v			03/13/14 22:44	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/13/14 22:44	1
Heptane	0.049	J	0.50	0.047	ppb v/v			03/13/14 22:44	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/13/14 22:44	1
Hexane	0.13	J	0.50	0.032	ppb v/v			03/13/14 22:44	1
Indane	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
Indene	ND		0.40	0.40	ppb v/v			03/13/14 22:44	1
Isopropyl alcohol	0.89	J	2.0	0.094	ppb v/v			03/13/14 22:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/13/14 22:44	1
Methylene Chloride	0.52		0.50	0.13	ppb v/v			03/13/14 22:44	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/13/14 22:44	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/13/14 22:44	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/13/14 22:44	1
Propene	1.1	~~or~~ J	0.50	0.077	ppb v/v			03/13/14 22:44	1
Styrene	ND		0.20	0.058	ppb v/v			03/13/14 22:44	1
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v			03/13/14 22:44	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/13/14 22:44	1
Thiophene	ND		0.20	0.20	ppb v/v			03/13/14 22:44	1
Toluene	0.19	J	0.20	0.12	ppb v/v			03/13/14 22:44	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/13/14 22:44	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/13/14 22:44	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/13/14 22:44	1
Trichlorofluoromethane	0.23		0.20	0.024	ppb v/v			03/13/14 22:44	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/13/14 22:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/13/14 22:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/13/14 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/13/14 22:44	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/13/14 22:44	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/13/14 22:44	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/13/14 22:44	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/13/14 22:44	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/13/14 22:44	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/13/14 22:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/13/14 22:44	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/13/14 22:44	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/13/14 22:44	1

Client Sample ID: PCV-AMB-2
Date Collected: 03/10/14 15:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/13/14 22:44	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/13/14 22:44	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/13/14 22:44	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/13/14 22:44	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/13/14 22:44	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/13/14 22:44	1
2,2,4-Trimethylpentane	**0.22**	**J**	2.3	0.18	ug/m3			03/13/14 22:44	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/13/14 22:44	1
2-Butanone (MEK)	**0.61**	**J**	2.9	0.59	ug/m3			03/13/14 22:44	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/13/14 22:44	1
2-Methylbutane	**1.8**		1.5	0.091	ug/m3			03/13/14 22:44	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/13/14 22:44	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/13/14 22:44	1
4-Methyl-2-pentanone (MIBK)	**0.25**	**J**	2.0	0.18	ug/m3			03/13/14 22:44	1
Acetone	**4.4**	**J**	12	3.3	ug/m3			03/13/14 22:44	1
Benzene	**0.68**		0.64	0.18	ug/m3			03/13/14 22:44	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/13/14 22:44	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/13/14 22:44	1
Bromoform	ND		2.1	0.50	ug/m3			03/13/14 22:44	1
Bromomethane	ND		0.78	0.12	ug/m3			03/13/14 22:44	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/13/14 22:44	1
Carbon tetrachloride	**0.39**	**J**	1.3	0.24	ug/m3			03/13/14 22:44	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/13/14 22:44	1
Chloroethane	ND		0.53	0.092	ug/m3			03/13/14 22:44	1
Chloroform	ND		0.98	0.19	ug/m3			03/13/14 22:44	1
Chloromethane	**1.0**		1.0	0.33	ug/m3			03/13/14 22:44	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/13/14 22:44	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/13/14 22:44	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/13/14 22:44	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/13/14 22:44	1
Dichlorodifluoromethane	**2.2**		0.99	0.34	ug/m3			03/13/14 22:44	1
Ethanol	**22**		3.8	3.8	ug/m3			03/13/14 22:44	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/13/14 22:44	1
Heptane	**0.20**	**J**	2.0	0.19	ug/m3			03/13/14 22:44	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/13/14 22:44	1
Hexane	**0.45**	**J**	1.8	0.11	ug/m3			03/13/14 22:44	1
Indane	ND		0.97	0.97	ug/m3			03/13/14 22:44	1
Indene	ND		1.9	1.9	ug/m3			03/13/14 22:44	1
Isopropyl alcohol	**2.2**	**J**	4.9	0.23	ug/m3			03/13/14 22:44	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/13/14 22:44	1
Methylene Chloride	**1.8**		1.7	0.45	ug/m3			03/13/14 22:44	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/13/14 22:44	1
Naphthalene	ND		2.6	0.47	ug/m3			03/13/14 22:44	1
o-Xylene	ND		0.87	0.26	ug/m3			03/13/14 22:44	1
Propene	**2.0**	~~on~~ J	0.86	0.13	ug/m3			03/13/14 22:44	1
Styrene	ND		0.85	0.25	ug/m3			03/13/14 22:44	1
Tetrachloroethene	**0.35**	**J**	1.4	0.27	ug/m3			03/13/14 22:44	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/13/14 22:44	1

Client Sample ID: PCV-AMB-2

Lab Sample ID: 140-1037-5

Date Collected: 03/10/14 15:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.69	0.69	ug/m3			03/13/14 22:44	1
Toluene	**0.72**	**J**	0.75	0.45	ug/m3			03/13/14 22:44	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/13/14 22:44	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/13/14 22:44	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/13/14 22:44	1
Trichlorofluoromethane	**1.3**		1.1	0.13	ug/m3			03/13/14 22:44	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/13/14 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/13/14 22:44*	*1*

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Date Collected: 03/10/14 16:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 00:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.066**	**J**	0.20	0.031	ppb v/v			03/14/14 00:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 00:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 00:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 00:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 00:15	1
1,2,4-Trimethylbenzene	**0.069**	**J**	0.20	0.063	ppb v/v			03/14/14 00:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 00:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 00:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 00:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 00:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 00:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 00:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 00:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 00:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 00:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 00:15	1
2,2,4-Trimethylpentane	**0.042**	**J**	0.50	0.039	ppb v/v			03/14/14 00:15	1
2,3-Dimethylpentane	**0.44**		0.20	0.20	ppb v/v			03/14/14 00:15	1
2-Butanone (MEK)	**0.33**	**J**	1.0	0.20	ppb v/v			03/14/14 00:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 00:15	1
2-Methylbutane	**0.80**		0.50	0.031	ppb v/v			03/14/14 00:15	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 00:15	1
4-Methyl-2-pentanone (MIBK)	**0.059**	**J**	0.50	0.045	ppb v/v			03/14/14 00:15	1
Acetone	**9.5**		5.0	1.4	ppb v/v			03/14/14 00:15	1
Benzene	**0.22**		0.20	0.056	ppb v/v			03/14/14 00:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 00:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 00:15	1

Client Sample ID: PCV-IA2-B16
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 00:15	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 00:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 00:15	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/14/14 00:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 00:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 00:15	1
Chloroform	0.088	J	0.20	0.038	ppb v/v			03/14/14 00:15	1
Chloromethane	0.46	J	0.50	0.16	ppb v/v			03/14/14 00:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 00:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 00:15	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 00:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 00:15	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/14/14 00:15	1
Ethanol	54		2.0	2.0	ppb v/v			03/14/14 00:15	1
Ethylbenzene	0.68		0.20	0.068	ppb v/v			03/14/14 00:15	1
Heptane	0.25	J	0.50	0.047	ppb v/v			03/14/14 00:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 00:15	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/14/14 00:15	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 00:15	1
Isopropyl alcohol	4.6		2.0	0.094	ppb v/v			03/14/14 00:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 00:15	1
Methylene Chloride	3.3		0.50	0.13	ppb v/v			03/14/14 00:15	1
m-Xylene & p-Xylene	3.7		0.20	0.12	ppb v/v			03/14/14 00:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 00:15	1
o-Xylene	1.3		0.20	0.061	ppb v/v			03/14/14 00:15	1
Propene	1.3 ~~or~~ J		0.50	0.077	ppb v/v			03/14/14 00:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 00:15	1
Tetrachloroethene	0.089	J	0.20	0.040	ppb v/v			03/14/14 00:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 00:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 00:15	1
Toluene	0.26		0.20	0.12	ppb v/v			03/14/14 00:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 00:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 00:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 00:15	1
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v			03/14/14 00:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 00:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 00:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/14/14 00:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 00:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 00:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 00:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 00:15	1
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3			03/14/14 00:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 00:15	1

Client Sample ID: PCV-IA2-B16
Date Collected: 03/10/14 16:30
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 00:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 00:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 00:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 00:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 00:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 00:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 00:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 00:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 00:15	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/14/14 00:15	1
2,3-Dimethylpentane	1.8		0.82	0.82	ug/m3			03/14/14 00:15	1
2-Butanone (MEK)	0.98	J	2.9	0.59	ug/m3			03/14/14 00:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 00:15	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/14/14 00:15	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 00:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 00:15	1
4-Methyl-2-pentanone (MIBK)	0.24	J	2.0	0.18	ug/m3			03/14/14 00:15	1
Acetone	23		12	3.3	ug/m3			03/14/14 00:15	1
Benzene	0.70		0.64	0.18	ug/m3			03/14/14 00:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 00:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 00:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 00:15	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 00:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 00:15	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/14/14 00:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 00:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 00:15	1
Chloroform	0.43	J	0.98	0.19	ug/m3			03/14/14 00:15	1
Chloromethane	0.96	J	1.0	0.33	ug/m3			03/14/14 00:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 00:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 00:15	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 00:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 00:15	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 00:15	1
Ethanol	100		3.8	3.8	ug/m3			03/14/14 00:15	1
Ethylbenzene	3.0		0.87	0.30	ug/m3			03/14/14 00:15	1
Heptane	1.0	J	2.0	0.19	ug/m3			03/14/14 00:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 00:15	1
Hexane	0.54	J	1.8	0.11	ug/m3			03/14/14 00:15	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 00:15	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 00:15	1
Isopropyl alcohol	11		4.9	0.23	ug/m3			03/14/14 00:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 00:15	1
Methylene Chloride	11		1.7	0.45	ug/m3			03/14/14 00:15	1
m-Xylene & p-Xylene	16		0.87	0.52	ug/m3			03/14/14 00:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 00:15	1
o-Xylene	5.5		0.87	0.26	ug/m3			03/14/14 00:15	1
Propene	2.2	~~cn~~ J	0.86	0.13	ug/m3			03/14/14 00:15	1

Client Sample ID: PCV-IA2-B16

Lab Sample ID: 140-1037-6

Date Collected: 03/10/14 16:30
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.85	0.25	ug/m3			03/14/14 00:15	1
Tetrachloroethene	**0.60**	**J**	1.4	0.27	ug/m3			03/14/14 00:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 00:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 00:15	1
Toluene	**0.99**		0.75	0.45	ug/m3			03/14/14 00:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 00:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 00:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 00:15	1
Trichlorofluoromethane	**1.5**		1.1	0.13	ug/m3			03/14/14 00:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*03/14/14 00:15*	*1*

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Date Collected: 03/10/14 16:42
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 01:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.067**	**J**	0.20	0.031	ppb v/v			03/14/14 01:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 01:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 01:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 01:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 01:01	1
1,2,4-Trimethylbenzene	**0.099**	**J**	0.20	0.063	ppb v/v			03/14/14 01:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 01:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 01:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 01:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 01:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 01:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 01:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 01:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 01:01	1
2,2,4-Trimethylpentane	**0.047**	**J**	0.50	0.039	ppb v/v			03/14/14 01:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
2-Butanone (MEK)	**0.38**	**J**	1.0	0.20	ppb v/v			03/14/14 01:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 01:01	1
2-Methylbutane	**0.72**		0.50	0.031	ppb v/v			03/14/14 01:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 01:01	1
Acetone	**4.2**	**J**	5.0	1.4	ppb v/v			03/14/14 01:01	1

Client Sample ID: PCV-IA1-B16
Date Collected: 03/10/14 16:42
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26		0.20	0.056	ppb v/v			03/14/14 01:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 01:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 01:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 01:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 01:01	1
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v			03/14/14 01:01	1
Carbon tetrachloride	0.062	J	0.20	0.038	ppb v/v			03/14/14 01:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 01:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 01:01	1
Chloroform	0.046	J	0.20	0.038	ppb v/v			03/14/14 01:01	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			03/14/14 01:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 01:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 01:01	1
Cyclohexane	0.045	J	0.50	0.040	ppb v/v			03/14/14 01:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 01:01	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/14/14 01:01	1
Ethanol	27		2.0	2.0	ppb v/v			03/14/14 01:01	1
Ethylbenzene	0.13	J	0.20	0.068	ppb v/v			03/14/14 01:01	1
Heptane	0.12	J	0.50	0.047	ppb v/v			03/14/14 01:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 01:01	1
Hexane	0.26	J	0.50	0.032	ppb v/v			03/14/14 01:01	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 01:01	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/14/14 01:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 01:01	1
Methylene Chloride	0.70		0.50	0.13	ppb v/v			03/14/14 01:01	1
m-Xylene & p-Xylene	0.65		0.20	0.12	ppb v/v			03/14/14 01:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 01:01	1
o-Xylene	0.25		0.20	0.061	ppb v/v			03/14/14 01:01	1
Propene	1.4 ~~or~~ J		0.50	0.077	ppb v/v			03/14/14 01:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 01:01	1
Tetrachloroethene	0.085	J	0.20	0.040	ppb v/v			03/14/14 01:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 01:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 01:01	1
Toluene	0.36		0.20	0.12	ppb v/v			03/14/14 01:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 01:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 01:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 01:01	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/14/14 01:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 01:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 01:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/14/14 01:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 01:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 01:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 01:01	1

Client Sample ID: PCV-IA1-B16
Date Collected: 03/10/14 16:42
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 01:01	1
1,2,4-Trimethylbenzene	0.49	J	0.98	0.31	ug/m3			03/14/14 01:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 01:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 01:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 01:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 01:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 01:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 01:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 01:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 01:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 01:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 01:01	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/14/14 01:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 01:01	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/14/14 01:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 01:01	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/14/14 01:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 01:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 01:01	1
Acetone	10	J	12	3.3	ug/m3			03/14/14 01:01	1
Benzene	0.83		0.64	0.18	ug/m3			03/14/14 01:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 01:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 01:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 01:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 01:01	1
Carbon disulfide	0.11	J	1.6	0.097	ug/m3			03/14/14 01:01	1
Carbon tetrachloride	0.39	J	1.3	0.24	ug/m3			03/14/14 01:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 01:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 01:01	1
Chloroform	0.23	J	0.98	0.19	ug/m3			03/14/14 01:01	1
Chloromethane	0.97	J	1.0	0.33	ug/m3			03/14/14 01:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 01:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 01:01	1
Cyclohexane	0.15	J	1.7	0.14	ug/m3			03/14/14 01:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 01:01	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/14/14 01:01	1
Ethanol	51		3.8	3.8	ug/m3			03/14/14 01:01	1
Ethylbenzene	0.57	J	0.87	0.30	ug/m3			03/14/14 01:01	1
Heptane	0.48	J	2.0	0.19	ug/m3			03/14/14 01:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 01:01	1
Hexane	0.92	J	1.8	0.11	ug/m3			03/14/14 01:01	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 01:01	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 01:01	1
Isopropyl alcohol	3.3	J	4.9	0.23	ug/m3			03/14/14 01:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 01:01	1
Methylene Chloride	2.4		1.7	0.45	ug/m3			03/14/14 01:01	1
m-Xylene & p-Xylene	2.8		0.87	0.52	ug/m3			03/14/14 01:01	1

Client Sample ID: PCV-IA1-B16

Lab Sample ID: 140-1037-7

Date Collected: 03/10/14 16:42
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 01:01	1
o-Xylene	1.1		0.87	0.26	ug/m3			03/14/14 01:01	1
Propene	2.5	~~on~~ J	0.86	0.13	ug/m3			03/14/14 01:01	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 01:01	1
Tetrachloroethene	0.58	J	1.4	0.27	ug/m3			03/14/14 01:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 01:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 01:01	1
Toluene	1.4		0.75	0.45	ug/m3			03/14/14 01:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 01:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 01:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 01:01	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/14/14 01:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/14/14 01:01*	*1*

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Date Collected: 03/10/14 16:35
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/14/14 01:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 01:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 01:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 01:46	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/14/14 01:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 01:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 01:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 01:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 01:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 01:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 01:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 01:46	1
2,2,4-Trimethylpentane	0.075	J	0.50	0.039	ppb v/v			03/14/14 01:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v			03/14/14 01:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 01:46	1
2-Methylbutane	0.67		0.50	0.031	ppb v/v			03/14/14 01:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1

Client Sample ID: PCV-IA3-B16
Date Collected: 03/10/14 16:35
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	0.095	J	0.40	0.066	ppb v/v			03/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	0.057	J	0.50	0.045	ppb v/v			03/14/14 01:46	1
Acetone	6.1		5.0	1.4	ppb v/v			03/14/14 01:46	1
Benzene	0.23		0.20	0.056	ppb v/v			03/14/14 01:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 01:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 01:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 01:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 01:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 01:46	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/14/14 01:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 01:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 01:46	1
Chloroform	0.13	J	0.20	0.038	ppb v/v			03/14/14 01:46	1
Chloromethane	0.59		0.50	0.16	ppb v/v			03/14/14 01:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 01:46	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/14/14 01:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 01:46	1
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v			03/14/14 01:46	1
Ethanol	47		2.0	2.0	ppb v/v			03/14/14 01:46	1
Ethylbenzene	0.24		0.20	0.068	ppb v/v			03/14/14 01:46	1
Heptane	0.17	J	0.50	0.047	ppb v/v			03/14/14 01:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 01:46	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/14/14 01:46	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 01:46	1
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v			03/14/14 01:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 01:46	1
Methylene Chloride	1.4		0.50	0.13	ppb v/v			03/14/14 01:46	1
m-Xylene & p-Xylene	1.5		0.20	0.12	ppb v/v			03/14/14 01:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 01:46	1
o-Xylene	0.45		0.20	0.061	ppb v/v			03/14/14 01:46	1
Propene	1.3	~~or~~ J	0.50	0.077	ppb v/v			03/14/14 01:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 01:46	1
Tetrachloroethene	0.064	J	0.20	0.040	ppb v/v			03/14/14 01:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 01:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 01:46	1
Toluene	0.29		0.20	0.12	ppb v/v			03/14/14 01:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 01:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 01:46	1
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v			03/14/14 01:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 01:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/14/14 01:46	1

Client Sample ID: PCV-IA3-B16
Date Collected: 03/10/14 16:35
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 01:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 01:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 01:46	1
1,2,4-Trimethylbenzene	0.53	J	0.98	0.31	ug/m3			03/14/14 01:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 01:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 01:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 01:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 01:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 01:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 01:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 01:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 01:46	1
2,2,4-Trimethylpentane	0.35	J	2.3	0.18	ug/m3			03/14/14 01:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 01:46	1
2-Butanone (MEK)	0.78	J	2.9	0.59	ug/m3			03/14/14 01:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 01:46	1
2-Methylbutane	2.0		1.5	0.091	ug/m3			03/14/14 01:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 01:46	1
4-Ethyltoluene	0.47	J	2.0	0.32	ug/m3			03/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	0.23	J	2.0	0.18	ug/m3			03/14/14 01:46	1
Acetone	15		12	3.3	ug/m3			03/14/14 01:46	1
Benzene	0.73		0.64	0.18	ug/m3			03/14/14 01:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 01:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 01:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 01:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 01:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 01:46	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/14/14 01:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 01:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 01:46	1
Chloroform	0.63	J	0.98	0.19	ug/m3			03/14/14 01:46	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/14/14 01:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 01:46	1
Cyclohexane	0.41	J	1.7	0.14	ug/m3			03/14/14 01:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 01:46	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/14/14 01:46	1
Ethanol	89		3.8	3.8	ug/m3			03/14/14 01:46	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/14/14 01:46	1
Heptane	0.70	J	2.0	0.19	ug/m3			03/14/14 01:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 01:46	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/14/14 01:46	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 01:46	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 01:46	1
Isopropyl alcohol	7.3		4.9	0.23	ug/m3			03/14/14 01:46	1

Client Sample ID: PCV-IA3-B16

Lab Sample ID: 140-1037-8

Date Collected: 03/10/14 16:35
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 01:46	1
Methylene Chloride	4.9		1.7	0.45	ug/m3			03/14/14 01:46	1
m-Xylene & p-Xylene	6.6		0.87	0.52	ug/m3			03/14/14 01:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 01:46	1
o-Xylene	1.9		0.87	0.26	ug/m3			03/14/14 01:46	1
Propene	2.3	~~cn~~ J	0.86	0.13	ug/m3			03/14/14 01:46	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 01:46	1
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3			03/14/14 01:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 01:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 01:46	1
Toluene	1.1		0.75	0.45	ug/m3			03/14/14 01:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 01:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 01:46	1
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3			03/14/14 01:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 01:46*	*1*

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Date Collected: 03/10/14 17:08
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 02:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/14/14 02:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 02:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 02:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 02:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 02:31	1
1,2,4-Trimethylbenzene	0.12	J	0.20	0.063	ppb v/v			03/14/14 02:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 02:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 02:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 02:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 02:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 02:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 02:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 02:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 02:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 02:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 02:31	1
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v			03/14/14 02:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v			03/14/14 02:31	1

Client Sample ID: PCV-IA2-B18
Date Collected: 03/10/14 17:08
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 02:31	1
2-Methylbutane	0.84		0.50	0.031	ppb v/v			03/14/14 02:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 02:31	1
4-Methyl-2-pentanone (MIBK)	2.8		0.50	0.045	ppb v/v			03/14/14 02:31	1
Acetone	19		5.0	1.4	ppb v/v			03/14/14 02:31	1
Benzene	0.23		0.20	0.056	ppb v/v			03/14/14 02:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 02:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 02:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 02:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 02:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 02:31	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/14/14 02:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 02:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 02:31	1
Chloroform	0.063	J	0.20	0.038	ppb v/v			03/14/14 02:31	1
Chloromethane	0.61		0.50	0.16	ppb v/v			03/14/14 02:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 02:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 02:31	1
Cyclohexane	0.080	J	0.50	0.040	ppb v/v			03/14/14 02:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 02:31	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/14/14 02:31	1
~~Ethanol~~	~~490~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/14/14 02:31~~	~~1~~
Ethylbenzene	0.24		0.20	0.068	ppb v/v			03/14/14 02:31	1
Heptane	0.13	J	0.50	0.047	ppb v/v			03/14/14 02:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 02:31	1
Hexane	0.16	J	0.50	0.032	ppb v/v			03/14/14 02:31	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 02:31	1
Isopropyl alcohol	2.5		2.0	0.094	ppb v/v			03/14/14 02:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 02:31	1
Methylene Chloride	0.52		0.50	0.13	ppb v/v			03/14/14 02:31	1
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v			03/14/14 02:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 02:31	1
o-Xylene	0.54		0.20	0.061	ppb v/v			03/14/14 02:31	1
Propene	1.7	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 02:31	1
Styrene	1.8		0.20	0.058	ppb v/v			03/14/14 02:31	1
Tetrachloroethene	0.098	J	0.20	0.040	ppb v/v			03/14/14 02:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 02:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 02:31	1
Toluene	0.46		0.20	0.12	ppb v/v			03/14/14 02:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 02:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 02:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 02:31	1
Trichlorofluoromethane	0.26		0.20	0.024	ppb v/v			03/14/14 02:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 02:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 02:31	1

Client Sample ID: PCV-IA2-B18
Date Collected: 03/10/14 17:08
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/14/14 02:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 02:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 02:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 02:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 02:31	1
1,2,4-Trimethylbenzene	0.60	J	0.98	0.31	ug/m3			03/14/14 02:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 02:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 02:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 02:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 02:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 02:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 02:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 02:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 02:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 02:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 02:31	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/14/14 02:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 02:31	1
2-Butanone (MEK)	0.83	J	2.9	0.59	ug/m3			03/14/14 02:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 02:31	1
2-Methylbutane	2.5		1.5	0.091	ug/m3			03/14/14 02:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 02:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 02:31	1
4-Methyl-2-pentanone (MIBK)	12		2.0	0.18	ug/m3			03/14/14 02:31	1
Acetone	45		12	3.3	ug/m3			03/14/14 02:31	1
Benzene	0.73		0.64	0.18	ug/m3			03/14/14 02:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 02:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 02:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 02:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 02:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 02:31	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/14/14 02:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 02:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 02:31	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/14/14 02:31	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 02:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 02:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 02:31	1
Cyclohexane	0.27	J	1.7	0.14	ug/m3			03/14/14 02:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 02:31	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 02:31	1
~~Ethanol~~	~~920~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/14/14 02:31~~	~~1~~
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/14/14 02:31	1
Heptane	0.53	J	2.0	0.19	ug/m3			03/14/14 02:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 02:31	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/14/14 02:31	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 02:31	1

Client Sample ID: PCV-IA2-B18

Lab Sample ID: 140-1037-9

Date Collected: 03/10/14 17:08
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 02:31	1
Isopropyl alcohol	6.2		4.9	0.23	ug/m3			03/14/14 02:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 02:31	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/14/14 02:31	1
m-Xylene & p-Xylene	5.4		0.87	0.52	ug/m3			03/14/14 02:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 02:31	1
o-Xylene	2.4		0.87	0.26	ug/m3			03/14/14 02:31	1
Propene	2.9 ~~on~~ J		0.86	0.13	ug/m3			03/14/14 02:31	1
Styrene	7.8		0.85	0.25	ug/m3			03/14/14 02:31	1
Tetrachloroethene	0.67	J	1.4	0.27	ug/m3			03/14/14 02:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 02:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 02:31	1
Toluene	1.7		0.75	0.45	ug/m3			03/14/14 02:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 02:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 02:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 02:31	1
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3			03/14/14 02:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/14/14 02:31*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	470		8.0	8.0	ppb v/v			03/14/14 08:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	880		15	15	ug/m3			03/14/14 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/14/14 08:31*	*1*

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Date Collected: 03/10/14 17:12
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 03:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v			03/14/14 03:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 03:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 03:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 03:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 03:16	1
1,2,4-Trimethylbenzene	0.085	J	0.20	0.063	ppb v/v			03/14/14 03:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 03:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 03:16	1

Client Sample ID: PCV-IA3-B18
Date Collected: 03/10/14 17:12
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 03:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 03:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 03:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 03:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 03:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 03:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 03:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 03:16	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 03:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
2-Butanone (MEK)	0.23	J	1.0	0.20	ppb v/v			03/14/14 03:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 03:16	1
2-Methylbutane	0.63		0.50	0.031	ppb v/v			03/14/14 03:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 03:16	1
4-Methyl-2-pentanone (MIBK)	0.050	J	0.50	0.045	ppb v/v			03/14/14 03:16	1
Acetone	3.3	J	5.0	1.4	ppb v/v			03/14/14 03:16	1
Benzene	0.20		0.20	0.056	ppb v/v			03/14/14 03:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 03:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 03:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 03:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 03:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 03:16	1
Carbon tetrachloride	0.061	J	0.20	0.038	ppb v/v			03/14/14 03:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 03:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 03:16	1
Chloroform	0.043	J	0.20	0.038	ppb v/v			03/14/14 03:16	1
Chloromethane	0.46	J	0.50	0.16	ppb v/v			03/14/14 03:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 03:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 03:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 03:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 03:16	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/14/14 03:16	1
Ethanol	32		2.0	2.0	ppb v/v			03/14/14 03:16	1
Ethylbenzene	0.37		0.20	0.068	ppb v/v			03/14/14 03:16	1
Heptane	0.075	J	0.50	0.047	ppb v/v			03/14/14 03:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 03:16	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/14/14 03:16	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 03:16	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/14/14 03:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 03:16	1
Methylene Chloride	2.0		0.50	0.13	ppb v/v			03/14/14 03:16	1
m-Xylene & p-Xylene	2.0		0.20	0.12	ppb v/v			03/14/14 03:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 03:16	1
o-Xylene	0.74		0.20	0.061	ppb v/v			03/14/14 03:16	1
Propene	1.4	~~or~~ J	0.50	0.077	ppb v/v			03/14/14 03:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 03:16	1

Client Sample ID: PCV-IA3-B18
Date Collected: 03/10/14 17:12
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 03:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 03:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 03:16	1
Toluene	**0.26**		0.20	0.12	ppb v/v			03/14/14 03:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 03:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 03:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 03:16	1
Trichlorofluoromethane	**0.25**		0.20	0.024	ppb v/v			03/14/14 03:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 03:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 03:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.46**	**J**	1.5	0.24	ug/m3			03/14/14 03:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 03:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 03:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 03:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 03:16	1
1,2,4-Trimethylbenzene	**0.42**	**J**	0.98	0.31	ug/m3			03/14/14 03:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 03:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 03:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 03:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 03:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 03:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 03:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 03:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 03:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 03:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 03:16	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 03:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 03:16	1
2-Butanone (MEK)	**0.68**	**J**	2.9	0.59	ug/m3			03/14/14 03:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 03:16	1
2-Methylbutane	**1.9**		1.5	0.091	ug/m3			03/14/14 03:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 03:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 03:16	1
4-Methyl-2-pentanone (MIBK)	**0.20**	**J**	2.0	0.18	ug/m3			03/14/14 03:16	1
Acetone	**7.9**	**J**	12	3.3	ug/m3			03/14/14 03:16	1
Benzene	**0.64**		0.64	0.18	ug/m3			03/14/14 03:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 03:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 03:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 03:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 03:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 03:16	1
Carbon tetrachloride	**0.38**	**J**	1.3	0.24	ug/m3			03/14/14 03:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 03:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 03:16	1
Chloroform	**0.21**	**J**	0.98	0.19	ug/m3			03/14/14 03:16	1

Client Sample ID: PCV-IA3-B18

Lab Sample ID: 140-1037-10

Date Collected: 03/10/14 17:12
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.95	J	1.0	0.33	ug/m3			03/14/14 03:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 03:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 03:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 03:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 03:16	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/14/14 03:16	1
Ethanol	59		3.8	3.8	ug/m3			03/14/14 03:16	1
Ethylbenzene	1.6		0.87	0.30	ug/m3			03/14/14 03:16	1
Heptane	0.31	J	2.0	0.19	ug/m3			03/14/14 03:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 03:16	1
Hexane	0.59	J	1.8	0.11	ug/m3			03/14/14 03:16	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 03:16	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 03:16	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/14/14 03:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 03:16	1
Methylene Chloride	6.9		1.7	0.45	ug/m3			03/14/14 03:16	1
m-Xylene & p-Xylene	8.5		0.87	0.52	ug/m3			03/14/14 03:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 03:16	1
o-Xylene	3.2		0.87	0.26	ug/m3			03/14/14 03:16	1
Propene	2.4	~~on~~ J	0.86	0.13	ug/m3			03/14/14 03:16	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 03:16	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 03:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 03:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 03:16	1
Toluene	0.98		0.75	0.45	ug/m3			03/14/14 03:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 03:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 03:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 03:16	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/14/14 03:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/14/14 03:16*	*1*

Client Sample ID: PCV-IA1-B18

Lab Sample ID: 140-1037-11

Date Collected: 03/10/14 17:18
Matrix: Air
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 04:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.060	J	0.20	0.031	ppb v/v			03/14/14 04:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 04:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 04:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 04:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 04:01	1

Client Sample ID: PCV-IA1-B18
Date Collected: 03/10/14 17:18
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.081	J	0.20	0.063	ppb v/v			03/14/14 04:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 04:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 04:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 04:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 04:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 04:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 04:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 04:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 04:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 04:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v			03/14/14 04:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 04:01	1
2-Methylbutane	0.62		0.50	0.031	ppb v/v			03/14/14 04:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 04:01	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v			03/14/14 04:01	1
Acetone	4.1	J	5.0	1.4	ppb v/v			03/14/14 04:01	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/14/14 04:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 04:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 04:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 04:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 04:01	1
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v			03/14/14 04:01	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/14/14 04:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 04:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 04:01	1
Chloroform	0.041	J	0.20	0.038	ppb v/v			03/14/14 04:01	1
Chloromethane	0.48	J	0.50	0.16	ppb v/v			03/14/14 04:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 04:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 04:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 04:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 04:01	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/14/14 04:01	1
Ethanol	25		2.0	2.0	ppb v/v			03/14/14 04:01	1
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/14/14 04:01	1
Heptane	0.059	J	0.50	0.047	ppb v/v			03/14/14 04:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 04:01	1
Hexane	0.13	J	0.50	0.032	ppb v/v			03/14/14 04:01	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 04:01	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/14/14 04:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 04:01	1
Methylene Chloride	0.45	J	0.50	0.13	ppb v/v			03/14/14 04:01	1
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v			03/14/14 04:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 04:01	1

Client Sample ID: PCV-IA1-B18
Date Collected: 03/10/14 17:18
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.47		0.20	0.061	ppb v/v			03/14/14 04:01	1
Propene	1.4	~~cm~~ J	0.50	0.077	ppb v/v			03/14/14 04:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 04:01	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 04:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 04:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 04:01	1
Toluene	0.22		0.20	0.12	ppb v/v			03/14/14 04:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 04:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 04:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 04:01	1
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v			03/14/14 04:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 04:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 04:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	1.5	0.24	ug/m3			03/14/14 04:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 04:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 04:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 04:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 04:01	1
1,2,4-Trimethylbenzene	0.40	J	0.98	0.31	ug/m3			03/14/14 04:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 04:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 04:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 04:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 04:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 04:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 04:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 04:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 04:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 04:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 04:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 04:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 04:01	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/14/14 04:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 04:01	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/14/14 04:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 04:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 04:01	1
4-Methyl-2-pentanone (MIBK)	0.47	J	2.0	0.18	ug/m3			03/14/14 04:01	1
Acetone	9.7	J	12	3.3	ug/m3			03/14/14 04:01	1
Benzene	0.59	J	0.64	0.18	ug/m3			03/14/14 04:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 04:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 04:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 04:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 04:01	1
Carbon disulfide	0.12	J	1.6	0.097	ug/m3			03/14/14 04:01	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/14/14 04:01	1

Client Sample ID: PCV-IA1-B18
Date Collected: 03/10/14 17:18
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 04:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 04:01	1
Chloroform	0.20	J	0.98	0.19	ug/m3			03/14/14 04:01	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/14/14 04:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 04:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 04:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 04:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 04:01	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 04:01	1
Ethanol	48		3.8	3.8	ug/m3			03/14/14 04:01	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/14/14 04:01	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/14/14 04:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 04:01	1
Hexane	0.44	J	1.8	0.11	ug/m3			03/14/14 04:01	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 04:01	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 04:01	1
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3			03/14/14 04:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 04:01	1
Methylene Chloride	1.6	J	1.7	0.45	ug/m3			03/14/14 04:01	1
m-Xylene & p-Xylene	5.4		0.87	0.52	ug/m3			03/14/14 04:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 04:01	1
o-Xylene	2.0		0.87	0.26	ug/m3			03/14/14 04:01	1
Propene	2.4	~~on~~ J	0.86	0.13	ug/m3			03/14/14 04:01	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 04:01	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 04:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 04:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 04:01	1
Toluene	0.81		0.75	0.45	ug/m3			03/14/14 04:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 04:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 04:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 04:01	1
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3			03/14/14 04:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 04:01*	*1*

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/14/14 04:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 04:46	1

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 04:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 04:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 04:46	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 04:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 04:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 04:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 04:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 04:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 04:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 04:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 04:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 04:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 04:46	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/14/14 04:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/14/14 04:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 04:46	1
2-Methylbutane	**0.67**		0.50	0.031	ppb v/v			03/14/14 04:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 04:46	1
4-Methyl-2-pentanone (MIBK)	**0.10**	**J**	0.50	0.045	ppb v/v			03/14/14 04:46	1
Acetone	**2.7**	**J**	5.0	1.4	ppb v/v			03/14/14 04:46	1
Benzene	**0.19**	**J**	0.20	0.056	ppb v/v			03/14/14 04:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 04:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 04:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 04:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 04:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 04:46	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/14/14 04:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 04:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 04:46	1
Chloroform	**0.045**	**J**	0.20	0.038	ppb v/v			03/14/14 04:46	1
Chloromethane	**0.65**		0.50	0.16	ppb v/v			03/14/14 04:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 04:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 04:46	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 04:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 04:46	1
Dichlorodifluoromethane	**0.45**		0.20	0.068	ppb v/v			03/14/14 04:46	1
Ethanol	**25**		2.0	2.0	ppb v/v			03/14/14 04:46	1
Ethylbenzene	**0.27**		0.20	0.068	ppb v/v			03/14/14 04:46	1
Heptane	**0.058**	**J**	0.50	0.047	ppb v/v			03/14/14 04:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 04:46	1
Hexane	**0.13**	**J**	0.50	0.032	ppb v/v			03/14/14 04:46	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 04:46	1
Isopropyl alcohol	**1.2**	**J**	2.0	0.094	ppb v/v			03/14/14 04:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 04:46	1

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50		0.50	0.13	ppb v/v			03/14/14 04:46	1
m-Xylene & p-Xylene	1.4		0.20	0.12	ppb v/v			03/14/14 04:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 04:46	1
o-Xylene	0.56		0.20	0.061	ppb v/v			03/14/14 04:46	1
Propene	1.4 ~~or~~ J		0.50	0.077	ppb v/v			03/14/14 04:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 04:46	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 04:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 04:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 04:46	1
Toluene	0.22		0.20	0.12	ppb v/v			03/14/14 04:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 04:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 04:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 04:46	1
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v			03/14/14 04:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 04:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/14/14 04:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 04:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 04:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 04:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 04:46	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 04:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 04:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 04:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 04:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 04:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 04:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 04:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 04:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 04:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 04:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 04:46	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/14/14 04:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 04:46	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/14/14 04:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 04:46	1
2-Methylbutane	2.0		1.5	0.091	ug/m3			03/14/14 04:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 04:46	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 04:46	1
4-Methyl-2-pentanone (MIBK)	0.43	J	2.0	0.18	ug/m3			03/14/14 04:46	1
Acetone	6.3	J	12	3.3	ug/m3			03/14/14 04:46	1
Benzene	0.61	J	0.64	0.18	ug/m3			03/14/14 04:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 04:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 04:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 04:46	1

Client Sample ID: PCV-IATC-B18
Date Collected: 03/10/14 17:15
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 04:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 04:46	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/14/14 04:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 04:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 04:46	1
Chloroform	0.22	J	0.98	0.19	ug/m3			03/14/14 04:46	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 04:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 04:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 04:46	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 04:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 04:46	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/14/14 04:46	1
Ethanol	47		3.8	3.8	ug/m3			03/14/14 04:46	1
Ethylbenzene	1.2		0.87	0.30	ug/m3			03/14/14 04:46	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/14/14 04:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 04:46	1
Hexane	0.47	J	1.8	0.11	ug/m3			03/14/14 04:46	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 04:46	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 04:46	1
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3			03/14/14 04:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 04:46	1
Methylene Chloride	1.7		1.7	0.45	ug/m3			03/14/14 04:46	1
m-Xylene & p-Xylene	6.2		0.87	0.52	ug/m3			03/14/14 04:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 04:46	1
o-Xylene	2.4		0.87	0.26	ug/m3			03/14/14 04:46	1
Propene	2.4 ~~en~~ J		0.86	0.13	ug/m3			03/14/14 04:46	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 04:46	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 04:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 04:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 04:46	1
Toluene	0.84		0.75	0.45	ug/m3			03/14/14 04:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 04:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 04:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 04:46	1
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3			03/14/14 04:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 04:46*	*1*

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 06:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 06:16	1

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v			03/14/14 06:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 06:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 06:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 06:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 06:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 06:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 06:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 06:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 06:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 06:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 06:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 06:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 06:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 06:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 06:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 06:16	1
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v			03/14/14 06:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
2-Butanone (MEK)	0.41	J	1.0	0.20	ppb v/v			03/14/14 06:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 06:16	1
2-Methylbutane	1.1		0.50	0.031	ppb v/v			03/14/14 06:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 06:16	1
4-Methyl-2-pentanone (MIBK)	4.4		0.50	0.045	ppb v/v			03/14/14 06:16	1
Acetone	5.0		5.0	1.4	ppb v/v			03/14/14 06:16	1
Benzene	0.22		0.20	0.056	ppb v/v			03/14/14 06:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 06:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 06:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 06:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 06:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 06:16	1
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v			03/14/14 06:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 06:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 06:16	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 06:16	1
Chloromethane	0.65		0.50	0.16	ppb v/v			03/14/14 06:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 06:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 06:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 06:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 06:16	1
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v			03/14/14 06:16	1
Ethanol	11		2.0	2.0	ppb v/v			03/14/14 06:16	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 06:16	1
Heptane	0.060	J	0.50	0.047	ppb v/v			03/14/14 06:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 06:16	1
Hexane	0.20	J	0.50	0.032	ppb v/v			03/14/14 06:16	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 06:16	1

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/14/14 06:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 06:16	1
Methylene Chloride	1.9		0.50	0.13	ppb v/v			03/14/14 06:16	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 06:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 06:16	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 06:16	1
Propene	1.3	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 06:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 06:16	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/14/14 06:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 06:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 06:16	1
Toluene	0.26		0.20	0.12	ppb v/v			03/14/14 06:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 06:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 06:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 06:16	1
Trichlorofluoromethane	0.31		0.20	0.024	ppb v/v			03/14/14 06:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 06:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 06:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 06:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3			03/14/14 06:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 06:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 06:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 06:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 06:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 06:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 06:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 06:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 06:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 06:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 06:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 06:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 06:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 06:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 06:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 06:16	1
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3			03/14/14 06:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 06:16	1
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3			03/14/14 06:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 06:16	1
2-Methylbutane	3.2		1.5	0.091	ug/m3			03/14/14 06:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 06:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 06:16	1
4-Methyl-2-pentanone (MIBK)	18		2.0	0.18	ug/m3			03/14/14 06:16	1
Acetone	12		12	3.3	ug/m3			03/14/14 06:16	1
Benzene	0.71		0.64	0.18	ug/m3			03/14/14 06:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 06:16	1

Client Sample ID: PCV-AMB1
Date Collected: 03/10/14 16:59
Date Received: 03/12/14 08:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1037-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 06:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 06:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 06:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 06:16	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/14/14 06:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 06:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 06:16	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 06:16	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 06:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 06:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 06:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 06:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 06:16	1
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3			03/14/14 06:16	1
Ethanol	20		3.8	3.8	ug/m3			03/14/14 06:16	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 06:16	1
Heptane	0.25	J	2.0	0.19	ug/m3			03/14/14 06:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 06:16	1
Hexane	0.69	J	1.8	0.11	ug/m3			03/14/14 06:16	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 06:16	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 06:16	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/14/14 06:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 06:16	1
Methylene Chloride	6.7		1.7	0.45	ug/m3			03/14/14 06:16	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 06:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 06:16	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 06:16	1
Propene	2.3	~~cn.~~ J	0.86	0.13	ug/m3			03/14/14 06:16	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 06:16	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/14/14 06:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 06:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 06:16	1
Toluene	0.97		0.75	0.45	ug/m3			03/14/14 06:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 06:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 06:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 06:16	1
Trichlorofluoromethane	1.7		1.1	0.13	ug/m3			03/14/14 06:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 06:16*	*1*

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 14:54	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.083	J	0.20	0.031	ppb v/v			03/14/14 14:54	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 14:54	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 14:54	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 14:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 14:54	1
1,2,4-Trimethylbenzene	0.089	J	0.20	0.063	ppb v/v			03/14/14 14:54	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 14:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 14:54	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 14:54	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 14:54	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 14:54	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:54	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 14:54	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 14:54	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 14:54	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 14:54	1
2,2,4-Trimethylpentane	0.078	J	0.50	0.039	ppb v/v			03/14/14 14:54	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
2-Butanone (MEK)	0.74	J	1.0	0.20	ppb v/v			03/14/14 14:54	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 14:54	1
2-Methylbutane	1.7		0.50	0.031	ppb v/v			03/14/14 14:54	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 14:54	1
4-Methyl-2-pentanone (MIBK)	0.070	J	0.50	0.045	ppb v/v			03/14/14 14:54	1
Acetone	6.6		5.0	1.4	ppb v/v			03/14/14 14:54	1
Benzene	0.33		0.20	0.056	ppb v/v			03/14/14 14:54	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 14:54	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 14:54	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 14:54	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 14:54	1
Carbon disulfide	0.041	J	0.50	0.031	ppb v/v			03/14/14 14:54	1
Carbon tetrachloride	0.083	J	0.20	0.038	ppb v/v			03/14/14 14:54	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 14:54	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 14:54	1
Chloroform	0.48		0.20	0.038	ppb v/v			03/14/14 14:54	1
Chloromethane	0.65		0.50	0.16	ppb v/v			03/14/14 14:54	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 14:54	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 14:54	1
Cyclohexane	0.11	J	0.50	0.040	ppb v/v			03/14/14 14:54	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 14:54	1
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v			03/14/14 14:54	1
Ethanol	79		2.0	2.0	ppb v/v			03/14/14 14:54	1
Ethylbenzene	0.093	J	0.20	0.068	ppb v/v			03/14/14 14:54	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/14/14 14:54	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 14:54	1

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.23	J	0.50	0.032	ppb v/v			03/14/14 14:54	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 14:54	1
Isopropyl alcohol	14		2.0	0.094	ppb v/v			03/14/14 14:54	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 14:54	1
Methylene Chloride	9.8		0.50	0.13	ppb v/v			03/14/14 14:54	1
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v			03/14/14 14:54	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 14:54	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/14/14 14:54	1
Propene	1.9	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 14:54	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 14:54	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/14/14 14:54	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 14:54	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 14:54	1
Toluene	0.44		0.20	0.12	ppb v/v			03/14/14 14:54	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 14:54	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 14:54	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 14:54	1
Trichlorofluoromethane	0.31	J	0.20	0.024	ppb v/v			03/14/14 14:54	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 14:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3			03/14/14 14:54	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 14:54	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 14:54	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 14:54	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 14:54	1
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3			03/14/14 14:54	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 14:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 14:54	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 14:54	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 14:54	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 14:54	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 14:54	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 14:54	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 14:54	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 14:54	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 14:54	1
2,2,4-Trimethylpentane	0.37	J	2.3	0.18	ug/m3			03/14/14 14:54	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 14:54	1
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3			03/14/14 14:54	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 14:54	1
2-Methylbutane	5.0		1.5	0.091	ug/m3			03/14/14 14:54	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 14:54	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 14:54	1
4-Methyl-2-pentanone (MIBK)	0.28	J	2.0	0.18	ug/m3			03/14/14 14:54	1

Client Sample ID: PCV-IA1-B1
Date Collected: 03/11/14 16:20
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16		12	3.3	ug/m3			03/14/14 14:54	1
Benzene	1.1		0.64	0.18	ug/m3			03/14/14 14:54	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 14:54	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 14:54	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 14:54	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 14:54	1
Carbon disulfide	0.13	J	1.6	0.097	ug/m3			03/14/14 14:54	1
Carbon tetrachloride	0.52	J	1.3	0.24	ug/m3			03/14/14 14:54	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 14:54	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 14:54	1
Chloroform	2.4		0.98	0.19	ug/m3			03/14/14 14:54	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 14:54	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 14:54	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 14:54	1
Cyclohexane	0.37	J	1.7	0.14	ug/m3			03/14/14 14:54	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 14:54	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/14/14 14:54	1
Ethanol	150		3.8	3.8	ug/m3			03/14/14 14:54	1
Ethylbenzene	0.40	J	0.87	0.30	ug/m3			03/14/14 14:54	1
Heptane	0.45	J	2.0	0.19	ug/m3			03/14/14 14:54	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 14:54	1
Hexane	0.82	J	1.8	0.11	ug/m3			03/14/14 14:54	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 14:54	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 14:54	1
Isopropyl alcohol	33		4.9	0.23	ug/m3			03/14/14 14:54	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 14:54	1
Methylene Chloride	34		1.7	0.45	ug/m3			03/14/14 14:54	1
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3			03/14/14 14:54	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 14:54	1
o-Xylene	0.45	J	0.87	0.26	ug/m3			03/14/14 14:54	1
Propene	3.2	~~en~~ J	0.86	0.13	ug/m3			03/14/14 14:54	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 14:54	1
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3			03/14/14 14:54	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 14:54	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 14:54	1
Toluene	1.6		0.75	0.45	ug/m3			03/14/14 14:54	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 14:54	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 14:54	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 14:54	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/14/14 14:54	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 14:54*	*1*

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.031	J	0.20	0.030	ppb v/v			03/14/14 15:40	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v			03/14/14 15:40	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 15:40	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 15:40	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 15:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 15:40	1
1,2,4-Trimethylbenzene	0.085	J	0.20	0.063	ppb v/v			03/14/14 15:40	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 15:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 15:40	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 15:40	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 15:40	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 15:40	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 15:40	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 15:40	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 15:40	1
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v			03/14/14 15:40	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 15:40	1
2,2,4-Trimethylpentane	0.079	J	0.50	0.039	ppb v/v			03/14/14 15:40	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
2-Butanone (MEK)	0.65	J	1.0	0.20	ppb v/v			03/14/14 15:40	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 15:40	1
2-Methylbutane	2.4		0.50	0.031	ppb v/v			03/14/14 15:40	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 15:40	1
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v			03/14/14 15:40	1
Acetone	5.9		5.0	1.4	ppb v/v			03/14/14 15:40	1
Benzene	0.31		0.20	0.056	ppb v/v			03/14/14 15:40	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 15:40	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 15:40	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 15:40	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 15:40	1
Carbon disulfide	0.081	J	0.50	0.031	ppb v/v			03/14/14 15:40	1
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v			03/14/14 15:40	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 15:40	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 15:40	1
Chloroform	0.34		0.20	0.038	ppb v/v			03/14/14 15:40	1
Chloromethane	0.63		0.50	0.16	ppb v/v			03/14/14 15:40	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 15:40	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 15:40	1
Cyclohexane	0.088	J	0.50	0.040	ppb v/v			03/14/14 15:40	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 15:40	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/14/14 15:40	1
Ethanol	84		2.0	2.0	ppb v/v			03/14/14 15:40	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/14/14 15:40	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/14/14 15:40	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 15:40	1
Hexane	0.24	J	0.50	0.032	ppb v/v			03/14/14 15:40	1

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 15:40	1
Isopropyl alcohol	3.2		2.0	0.094	ppb v/v			03/14/14 15:40	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 15:40	1
Methylene Chloride	0.76		0.50	0.13	ppb v/v			03/14/14 15:40	1
m-Xylene & p-Xylene	0.26		0.20	0.12	ppb v/v			03/14/14 15:40	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 15:40	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/14/14 15:40	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 15:40	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 15:40	1
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v			03/14/14 15:40	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 15:40	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 15:40	1
Toluene	0.42		0.20	0.12	ppb v/v			03/14/14 15:40	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 15:40	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 15:40	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 15:40	1
Trichlorofluoromethane	0.32	J	0.20	0.024	ppb v/v			03/14/14 15:40	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 15:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.17	J	1.1	0.16	ug/m3			03/14/14 15:40	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3			03/14/14 15:40	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 15:40	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 15:40	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 15:40	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 15:40	1
1,2,4-Trimethylbenzene	0.42	J	0.98	0.31	ug/m3			03/14/14 15:40	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 15:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 15:40	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 15:40	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 15:40	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 15:40	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 15:40	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 15:40	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 15:40	1
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3			03/14/14 15:40	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 15:40	1
2,2,4-Trimethylpentane	0.37	J	2.3	0.18	ug/m3			03/14/14 15:40	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 15:40	1
2-Butanone (MEK)	1.9	J	2.9	0.59	ug/m3			03/14/14 15:40	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 15:40	1
2-Methylbutane	7.1		1.5	0.091	ug/m3			03/14/14 15:40	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 15:40	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 15:40	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/14/14 15:40	1
Acetone	14		12	3.3	ug/m3			03/14/14 15:40	1

Client Sample ID: PCV-IA2-B1
Date Collected: 03/11/14 16:17
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0		0.64	0.18	ug/m3			03/14/14 15:40	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 15:40	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 15:40	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 15:40	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 15:40	1
Carbon disulfide	0.25	J	1.6	0.097	ug/m3			03/14/14 15:40	1
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3			03/14/14 15:40	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 15:40	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 15:40	1
Chloroform	1.7		0.98	0.19	ug/m3			03/14/14 15:40	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 15:40	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 15:40	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 15:40	1
Cyclohexane	0.30	J	1.7	0.14	ug/m3			03/14/14 15:40	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 15:40	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/14/14 15:40	1
Ethanol	160		3.8	3.8	ug/m3			03/14/14 15:40	1
Ethylbenzene	0.43	J	0.87	0.30	ug/m3			03/14/14 15:40	1
Heptane	0.44	J	2.0	0.19	ug/m3			03/14/14 15:40	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 15:40	1
Hexane	0.84	J	1.8	0.11	ug/m3			03/14/14 15:40	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 15:40	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 15:40	1
Isopropyl alcohol	8.0		4.9	0.23	ug/m3			03/14/14 15:40	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 15:40	1
Methylene Chloride	2.6		1.7	0.45	ug/m3			03/14/14 15:40	1
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3			03/14/14 15:40	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 15:40	1
o-Xylene	0.45	J	0.87	0.26	ug/m3			03/14/14 15:40	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 15:40	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 15:40	1
Tetrachloroethene	0.83	J	1.4	0.27	ug/m3			03/14/14 15:40	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 15:40	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 15:40	1
Toluene	1.6		0.75	0.45	ug/m3			03/14/14 15:40	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 15:40	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 15:40	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 15:40	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/14/14 15:40	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 15:40*	*1*

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 16:24	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/14/14 16:24	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 16:24	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 16:24	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 16:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 16:24	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 16:24	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 16:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 16:24	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 16:24	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 16:24	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 16:24	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 16:24	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 16:24	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 16:24	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 16:24	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 16:24	1
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v			03/14/14 16:24	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v			03/14/14 16:24	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 16:24	1
2-Methylbutane	0.74		0.50	0.031	ppb v/v			03/14/14 16:24	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 16:24	1
4-Methyl-2-pentanone (MIBK)	0.091	J	0.50	0.045	ppb v/v			03/14/14 16:24	1
Acetone	3.4	J	5.0	1.4	ppb v/v			03/14/14 16:24	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/14/14 16:24	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 16:24	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 16:24	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 16:24	1
Bromomethane	0.039	J	0.20	0.032	ppb v/v			03/14/14 16:24	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 16:24	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/14/14 16:24	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 16:24	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 16:24	1
Chloroform	0.039	J	0.20	0.038	ppb v/v			03/14/14 16:24	1
Chloromethane	0.70		0.50	0.16	ppb v/v			03/14/14 16:24	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 16:24	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 16:24	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 16:24	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 16:24	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/14/14 16:24	1
Ethanol	31		2.0	2.0	ppb v/v			03/14/14 16:24	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 16:24	1
Heptane	ND		0.50	0.047	ppb v/v			03/14/14 16:24	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 16:24	1
Hexane	0.13	J	0.50	0.032	ppb v/v			03/14/14 16:24	1

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 16:24	1
Isopropyl alcohol	2.0		2.0	0.094	ppb v/v			03/14/14 16:24	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 16:24	1
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v			03/14/14 16:24	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 16:24	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 16:24	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 16:24	1
Propene	1.1	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 16:24	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 16:24	1
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v			03/14/14 16:24	1
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v			03/14/14 16:24	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 16:24	1
Toluene	0.25		0.20	0.12	ppb v/v			03/14/14 16:24	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 16:24	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 16:24	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 16:24	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/14/14 16:24	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 16:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 16:24	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/14/14 16:24	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 16:24	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 16:24	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 16:24	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 16:24	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 16:24	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 16:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 16:24	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 16:24	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 16:24	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 16:24	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 16:24	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 16:24	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 16:24	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 16:24	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 16:24	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/14/14 16:24	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 16:24	1
2-Butanone (MEK)	0.79	J	2.9	0.59	ug/m3			03/14/14 16:24	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 16:24	1
2-Methylbutane	2.2		1.5	0.091	ug/m3			03/14/14 16:24	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 16:24	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 16:24	1
4-Methyl-2-pentanone (MIBK)	0.37	J	2.0	0.18	ug/m3			03/14/14 16:24	1
Acetone	8.0	J	12	3.3	ug/m3			03/14/14 16:24	1

Client Sample ID: PCV-IA1-B2
Date Collected: 03/11/14 16:40
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.59	J	0.64	0.18	ug/m3			03/14/14 16:24	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 16:24	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 16:24	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 16:24	1
Bromomethane	0.15	J	0.78	0.12	ug/m3			03/14/14 16:24	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 16:24	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/14/14 16:24	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 16:24	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 16:24	1
Chloroform	0.19	J	0.98	0.19	ug/m3			03/14/14 16:24	1
Chloromethane	1.5		1.0	0.33	ug/m3			03/14/14 16:24	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 16:24	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 16:24	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 16:24	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 16:24	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/14/14 16:24	1
Ethanol	59		3.8	3.8	ug/m3			03/14/14 16:24	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 16:24	1
Heptane	ND		2.0	0.19	ug/m3			03/14/14 16:24	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 16:24	1
Hexane	0.45	J	1.8	0.11	ug/m3			03/14/14 16:24	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 16:24	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 16:24	1
Isopropyl alcohol	4.9		4.9	0.23	ug/m3			03/14/14 16:24	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 16:24	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/14/14 16:24	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 16:24	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 16:24	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 16:24	1
Propene	2.0	~~on~~ J	0.86	0.13	ug/m3			03/14/14 16:24	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 16:24	1
Tetrachloroethene	0.68	J	1.4	0.27	ug/m3			03/14/14 16:24	1
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3			03/14/14 16:24	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 16:24	1
Toluene	0.95		0.75	0.45	ug/m3			03/14/14 16:24	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 16:24	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 16:24	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 16:24	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 16:24	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 16:24*	*1*

Client Sample ID: PCV-IA2-B2
Date Collected: 03/11/14 16:36
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/14/14 17:10	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 17:10	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 17:10	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 17:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 17:10	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 17:10	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 17:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 17:10	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 17:10	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 17:10	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 17:10	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:10	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 17:10	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:10	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 17:10	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 17:10	1
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v			03/14/14 17:10	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v			03/14/14 17:10	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 17:10	1
2-Methylbutane	1.2		0.50	0.031	ppb v/v			03/14/14 17:10	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/14/14 17:10	1
Acetone	3.5	J	5.0	1.4	ppb v/v			03/14/14 17:10	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/14/14 17:10	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 17:10	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 17:10	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 17:10	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 17:10	1
Carbon disulfide	0.070	J	0.50	0.031	ppb v/v			03/14/14 17:10	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/14/14 17:10	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 17:10	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 17:10	1
Chloroform	0.052	J	0.20	0.038	ppb v/v			03/14/14 17:10	1
Chloromethane	0.63		0.50	0.16	ppb v/v			03/14/14 17:10	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 17:10	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 17:10	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 17:10	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 17:10	1
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v			03/14/14 17:10	1
Ethanol	22		2.0	2.0	ppb v/v			03/14/14 17:10	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 17:10	1
Heptane	0.053	J	0.50	0.047	ppb v/v			03/14/14 17:10	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 17:10	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/14/14 17:10	1

Client Sample ID: PCV-IA2-B2
Date Collected: 03/11/14 16:36
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 17:10	1
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v			03/14/14 17:10	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 17:10	1
Methylene Chloride	0.35	J	0.50	0.13	ppb v/v			03/14/14 17:10	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/14/14 17:10	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 17:10	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 17:10	1
Propene	1.2	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 17:10	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 17:10	1
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v			03/14/14 17:10	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 17:10	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 17:10	1
Toluene	0.25		0.20	0.12	ppb v/v			03/14/14 17:10	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 17:10	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 17:10	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 17:10	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/14/14 17:10	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 17:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/14/14 17:10	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 17:10	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 17:10	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 17:10	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 17:10	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 17:10	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 17:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 17:10	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 17:10	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 17:10	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 17:10	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 17:10	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 17:10	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 17:10	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 17:10	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 17:10	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/14/14 17:10	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 17:10	1
2-Butanone (MEK)	0.76	J	2.9	0.59	ug/m3			03/14/14 17:10	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 17:10	1
2-Methylbutane	3.4		1.5	0.091	ug/m3			03/14/14 17:10	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 17:10	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/14/14 17:10	1
Acetone	8.4	J	12	3.3	ug/m3			03/14/14 17:10	1

Client Sample ID: PCV-IA2-B2
Date Collected: 03/11/14 16:36
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.61	J	0.64	0.18	ug/m3			03/14/14 17:10	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 17:10	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 17:10	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 17:10	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 17:10	1
Carbon disulfide	0.22	J	1.6	0.097	ug/m3			03/14/14 17:10	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/14/14 17:10	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 17:10	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 17:10	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/14/14 17:10	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/14/14 17:10	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 17:10	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 17:10	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 17:10	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 17:10	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 17:10	1
Ethanol	41		3.8	3.8	ug/m3			03/14/14 17:10	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 17:10	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/14/14 17:10	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 17:10	1
Hexane	0.48	J	1.8	0.11	ug/m3			03/14/14 17:10	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 17:10	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 17:10	1
Isopropyl alcohol	5.8		4.9	0.23	ug/m3			03/14/14 17:10	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 17:10	1
Methylene Chloride	1.2	J	1.7	0.45	ug/m3			03/14/14 17:10	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/14/14 17:10	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 17:10	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 17:10	1
Propene	2.0	~~cn~~ J	0.86	0.13	ug/m3			03/14/14 17:10	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 17:10	1
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3			03/14/14 17:10	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 17:10	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 17:10	1
Toluene	0.95		0.75	0.45	ug/m3			03/14/14 17:10	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 17:10	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 17:10	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 17:10	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/14/14 17:10	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 17:10*	*1*

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.080	J	0.20	0.031	ppb v/v			03/14/14 17:56	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 17:56	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 17:56	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 17:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 17:56	1
1,2,4-Trimethylbenzene	0.23		0.20	0.063	ppb v/v			03/14/14 17:56	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 17:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 17:56	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 17:56	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 17:56	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 17:56	1
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v			03/14/14 17:56	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 17:56	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 17:56	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 17:56	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 17:56	1
2,2,4-Trimethylpentane	0.067	J	0.50	0.039	ppb v/v			03/14/14 17:56	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v			03/14/14 17:56	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 17:56	1
2-Methylbutane	0.99		0.50	0.031	ppb v/v			03/14/14 17:56	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/14/14 17:56	1
4-Methyl-2-pentanone (MIBK)	5.5		0.50	0.045	ppb v/v			03/14/14 17:56	1
Acetone	25		5.0	1.4	ppb v/v			03/14/14 17:56	1
Benzene	0.30		0.20	0.056	ppb v/v			03/14/14 17:56	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 17:56	1
Bromodichloromethane	0.078	J	0.20	0.044	ppb v/v			03/14/14 17:56	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 17:56	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 17:56	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 17:56	1
Carbon tetrachloride	0.078	J	0.20	0.038	ppb v/v			03/14/14 17:56	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 17:56	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 17:56	1
Chloroform	1.4		0.20	0.038	ppb v/v			03/14/14 17:56	1
Chloromethane	0.55		0.50	0.16	ppb v/v			03/14/14 17:56	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 17:56	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 17:56	1
Cyclohexane	0.046	J	0.50	0.040	ppb v/v			03/14/14 17:56	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 17:56	1
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v			03/14/14 17:56	1
Ethanol	48		2.0	2.0	ppb v/v			03/14/14 17:56	1
Ethylbenzene	0.082	J	0.20	0.068	ppb v/v			03/14/14 17:56	1
Heptane	0.078	J	0.50	0.047	ppb v/v			03/14/14 17:56	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 17:56	1
Hexane	0.21	J	0.50	0.032	ppb v/v			03/14/14 17:56	1

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 17:56	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/14/14 17:56	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 17:56	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/14/14 17:56	1
m-Xylene & p-Xylene	0.29		0.20	0.12	ppb v/v			03/14/14 17:56	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 17:56	1
o-Xylene	0.12	J	0.20	0.061	ppb v/v			03/14/14 17:56	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 17:56	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 17:56	1
Tetrachloroethene	0.31		0.20	0.040	ppb v/v			03/14/14 17:56	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 17:56	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 17:56	1
Toluene	10		0.20	0.12	ppb v/v			03/14/14 17:56	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 17:56	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 17:56	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 17:56	1
Trichlorofluoromethane	0.30	J	0.20	0.024	ppb v/v			03/14/14 17:56	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 17:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 17:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	J	1.5	0.24	ug/m3			03/14/14 17:56	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 17:56	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 17:56	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 17:56	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 17:56	1
1,2,4-Trimethylbenzene	1.1		0.98	0.31	ug/m3			03/14/14 17:56	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 17:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 17:56	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 17:56	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 17:56	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 17:56	1
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3			03/14/14 17:56	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 17:56	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 17:56	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 17:56	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 17:56	1
2,2,4-Trimethylpentane	0.31	J	2.3	0.18	ug/m3			03/14/14 17:56	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 17:56	1
2-Butanone (MEK)	0.78	J	2.9	0.59	ug/m3			03/14/14 17:56	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 17:56	1
2-Methylbutane	2.9		1.5	0.091	ug/m3			03/14/14 17:56	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 17:56	1
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/14/14 17:56	1
4-Methyl-2-pentanone (MIBK)	22		2.0	0.18	ug/m3			03/14/14 17:56	1
Acetone	60		12	3.3	ug/m3			03/14/14 17:56	1

Client Sample ID: PCV-IA1-B13
Date Collected: 03/11/14 15:06
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.96		0.64	0.18	ug/m3			03/14/14 17:56	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 17:56	1
Bromodichloromethane	0.52	J	1.3	0.29	ug/m3			03/14/14 17:56	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 17:56	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 17:56	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 17:56	1
Carbon tetrachloride	0.49	J	1.3	0.24	ug/m3			03/14/14 17:56	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 17:56	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 17:56	1
Chloroform	6.6		0.98	0.19	ug/m3			03/14/14 17:56	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/14/14 17:56	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 17:56	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 17:56	1
Cyclohexane	0.16	J	1.7	0.14	ug/m3			03/14/14 17:56	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 17:56	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 17:56	1
Ethanol	90		3.8	3.8	ug/m3			03/14/14 17:56	1
Ethylbenzene	0.36	J	0.87	0.30	ug/m3			03/14/14 17:56	1
Heptane	0.32	J	2.0	0.19	ug/m3			03/14/14 17:56	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 17:56	1
Hexane	0.73	J	1.8	0.11	ug/m3			03/14/14 17:56	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 17:56	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 17:56	1
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3			03/14/14 17:56	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 17:56	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/14/14 17:56	1
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3			03/14/14 17:56	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 17:56	1
o-Xylene	0.52	J	0.87	0.26	ug/m3			03/14/14 17:56	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 17:56	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 17:56	1
Tetrachloroethene	2.1		1.4	0.27	ug/m3			03/14/14 17:56	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 17:56	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 17:56	1
Toluene	38		0.75	0.45	ug/m3			03/14/14 17:56	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 17:56	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 17:56	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 17:56	1
Trichlorofluoromethane	1.7	J	1.1	0.13	ug/m3			03/14/14 17:56	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/14/14 17:56*	*1*

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 18:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/14/14 18:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 18:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 18:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 18:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 18:42	1
1,2,4-Trimethylbenzene	8.0		0.20	0.063	ppb v/v			03/14/14 18:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 18:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 18:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 18:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 18:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 18:42	1
1,3,5-Trimethylbenzene	3.0		0.20	0.065	ppb v/v			03/14/14 18:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 18:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 18:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 18:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 18:42	1
2,2,4-Trimethylpentane	0.087	J	0.50	0.039	ppb v/v			03/14/14 18:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 18:42	1
2-Butanone (MEK)	0.58	J	1.0	0.20	ppb v/v			03/14/14 18:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 18:42	1
2-Methylbutane	1.5		0.50	0.031	ppb v/v			03/14/14 18:42	1
2-Methylpentane	0.21		0.20	0.20	ppb v/v			03/14/14 18:42	1
4-Ethyltoluene	3.4		0.40	0.066	ppb v/v			03/14/14 18:42	1
4-Methyl-2-pentanone (MIBK)	0.41	J	0.50	0.045	ppb v/v			03/14/14 18:42	1
Acetone	560	E	5.0	1.4	ppb v/v			03/14/14 18:42	1
Benzene	0.51		0.20	0.056	ppb v/v			03/14/14 18:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 18:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 18:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 18:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 18:42	1
Carbon disulfide	0.033	J	0.50	0.031	ppb v/v			03/14/14 18:42	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/14/14 18:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 18:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 18:42	1
Chloroform	0.24		0.20	0.038	ppb v/v			03/14/14 18:42	1
Chloromethane	0.57		0.50	0.16	ppb v/v			03/14/14 18:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 18:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 18:42	1
Cyclohexane	0.092	J	0.50	0.040	ppb v/v			03/14/14 18:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 18:42	1
Dichlorodifluoromethane	0.69		0.20	0.068	ppb v/v			03/14/14 18:42	1
Ethanol	29		2.0	2.0	ppb v/v			03/14/14 18:42	1
Ethylbenzene	0.63		0.20	0.068	ppb v/v			03/14/14 18:42	1
Heptane	0.31	J	0.50	0.047	ppb v/v			03/14/14 18:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 18:42	1
Hexane	0.26	J	0.50	0.032	ppb v/v			03/14/14 18:42	1

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	0.79		0.20	0.20	ppb v/v			03/14/14 18:42	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 18:42	1
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v			03/14/14 18:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 18:42	1
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v			03/14/14 18:42	1
m-Xylene & p-Xylene	2.9		0.20	0.12	ppb v/v			03/14/14 18:42	1
Naphthalene	2.9		0.50	0.090	ppb v/v			03/14/14 18:42	1
o-Xylene	1.2		0.20	0.061	ppb v/v			03/14/14 18:42	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 18:42	1
Styrene	1.1		0.20	0.058	ppb v/v			03/14/14 18:42	1
Tetrachloroethene	~~0.14~~	~~J~~ 0.20 U	0.20	0.040	ppb v/v			03/14/14 18:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 18:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 18:42	1
~~Toluene~~	~~110~~	~~E~~	~~0.20~~	~~0.12~~	~~ppb v/v~~			~~03/14/14 18:42~~	~~1~~
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 18:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 18:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 18:42	1
Trichlorofluoromethane	0.28	J	0.20	0.024	ppb v/v			03/14/14 18:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 18:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 18:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/14/14 18:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 18:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 18:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 18:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 18:42	1
1,2,4-Trimethylbenzene	39		0.98	0.31	ug/m3			03/14/14 18:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 18:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 18:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 18:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 18:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 18:42	1
1,3,5-Trimethylbenzene	15		0.98	0.32	ug/m3			03/14/14 18:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 18:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 18:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 18:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 18:42	1
2,2,4-Trimethylpentane	0.41	J	2.3	0.18	ug/m3			03/14/14 18:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 18:42	1
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3			03/14/14 18:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 18:42	1
2-Methylbutane	4.3		1.5	0.091	ug/m3			03/14/14 18:42	1
2-Methylpentane	0.74		0.70	0.70	ug/m3			03/14/14 18:42	1
4-Ethyltoluene	17		2.0	0.32	ug/m3			03/14/14 18:42	1
4-Methyl-2-pentanone (MIBK)	1.7	J	2.0	0.18	ug/m3			03/14/14 18:42	1
~~Acetone~~	~~1300~~	~~E~~	~~12~~	~~3.3~~	~~ug/m3~~			~~03/14/14 18:42~~	~~1~~

Client Sample ID: PCV-IA2-B13
Date Collected: 03/11/14 16:10
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.6		0.64	0.18	ug/m3			03/14/14 18:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 18:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 18:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 18:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 18:42	1
Carbon disulfide	0.10	J	1.6	0.097	ug/m3			03/14/14 18:42	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/14/14 18:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 18:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 18:42	1
Chloroform	1.2		0.98	0.19	ug/m3			03/14/14 18:42	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/14/14 18:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 18:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 18:42	1
Cyclohexane	0.32	J	1.7	0.14	ug/m3			03/14/14 18:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 18:42	1
Dichlorodifluoromethane	3.4		0.99	0.34	ug/m3			03/14/14 18:42	1
Ethanol	55		3.8	3.8	ug/m3			03/14/14 18:42	1
Ethylbenzene	2.7		0.87	0.30	ug/m3			03/14/14 18:42	1
Heptane	1.3	J	2.0	0.19	ug/m3			03/14/14 18:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 18:42	1
Hexane	0.93	J	1.8	0.11	ug/m3			03/14/14 18:42	1
Indane	3.8		0.97	0.97	ug/m3			03/14/14 18:42	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 18:42	1
Isopropyl alcohol	5.5		4.9	0.23	ug/m3			03/14/14 18:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 18:42	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/14/14 18:42	1
m-Xylene & p-Xylene	13		0.87	0.52	ug/m3			03/14/14 18:42	1
Naphthalene	15		2.6	0.47	ug/m3			03/14/14 18:42	1
o-Xylene	5.4		0.87	0.26	ug/m3			03/14/14 18:42	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 18:42	1
Styrene	4.5		0.85	0.25	ug/m3			03/14/14 18:42	1
Tetrachloroethene	~~0.96~~	~~J~~ 1.4 U	1.4	0.27	ug/m3			03/14/14 18:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 18:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 18:42	1
~~Toluene~~	~~430~~	~~E~~	~~0.75~~	~~0.45~~	~~ug/m3~~			~~03/14/14 18:42~~	~~1~~
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 18:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 18:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 18:42	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 18:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*60 - 140*		*03/14/14 18:42*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	370		91	25	ppb v/v			03/14/14 20:43	1
Toluene	110		3.6	2.2	ppb v/v			03/14/14 20:43	1

Client Sample ID: PCV-IA2-B13

Lab Sample ID: 140-1041-6

Date Collected: 03/11/14 16:10
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	880		220	60	ug/m3			03/14/14 20:43	1
Toluene	420		14	8.2	ug/m3			03/14/14 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/14/14 20:43*	*1*

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Date Collected: 03/11/14 16:14
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 21:28	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.070	J	0.20	0.031	ppb v/v			03/14/14 21:28	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 21:28	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 21:28	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 21:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 21:28	1
1,2,4-Trimethylbenzene	1.7		0.20	0.063	ppb v/v			03/14/14 21:28	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 21:28	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 21:28	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 21:28	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 21:28	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 21:28	1
1,3,5-Trimethylbenzene	0.63		0.20	0.065	ppb v/v			03/14/14 21:28	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 21:28	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 21:28	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 21:28	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 21:28	1
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v			03/14/14 21:28	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
2-Butanone (MEK)	0.37	J	1.0	0.20	ppb v/v			03/14/14 21:28	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 21:28	1
2-Methylbutane	1.2		0.50	0.031	ppb v/v			03/14/14 21:28	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
4-Ethyltoluene	0.68		0.40	0.066	ppb v/v			03/14/14 21:28	1
4-Methyl-2-pentanone (MIBK)	0.54		0.50	0.045	ppb v/v			03/14/14 21:28	1
Acetone	170	E	5.0	1.4	ppb v/v			03/14/14 21:28	1
Benzene	0.34		0.20	0.056	ppb v/v			03/14/14 21:28	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 21:28	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 21:28	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 21:28	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 21:28	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 21:28	1
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v			03/14/14 21:28	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 21:28	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 21:28	1

Client Sample ID: PCV-IA3-B13
Date Collected: 03/11/14 16:14
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.18	J	0.20	0.038	ppb v/v			03/14/14 21:28	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/14/14 21:28	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 21:28	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 21:28	1
Cyclohexane	0.075	J	0.50	0.040	ppb v/v			03/14/14 21:28	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 21:28	1
Dichlorodifluoromethane	0.48		0.20	0.068	ppb v/v			03/14/14 21:28	1
Ethanol	28		2.0	2.0	ppb v/v			03/14/14 21:28	1
Ethylbenzene	0.22		0.20	0.068	ppb v/v			03/14/14 21:28	1
Heptane	0.17	J	0.50	0.047	ppb v/v			03/14/14 21:28	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 21:28	1
Hexane	0.25	J	0.50	0.032	ppb v/v			03/14/14 21:28	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 21:28	1
Isopropyl alcohol	1.5	J	2.0	0.094	ppb v/v			03/14/14 21:28	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 21:28	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/14/14 21:28	1
m-Xylene & p-Xylene	0.96		0.20	0.12	ppb v/v			03/14/14 21:28	1
Naphthalene	0.70		0.50	0.090	ppb v/v			03/14/14 21:28	1
o-Xylene	0.40		0.20	0.061	ppb v/v			03/14/14 21:28	1
Propene	ND		0.50	0.077	ppb v/v			03/14/14 21:28	1
Styrene	0.25		0.20	0.058	ppb v/v			03/14/14 21:28	1
Tetrachloroethene	0.11	J	0.20	0.040	ppb v/v			03/14/14 21:28	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 21:28	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 21:28	1
~~Toluene~~	~~55~~	~~E~~	0.20	0.12	ppb v/v			03/14/14 21:28	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 21:28	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 21:28	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 21:28	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/14/14 21:28	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 21:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 21:28	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/14/14 21:28	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 21:28	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 21:28	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 21:28	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 21:28	1
1,2,4-Trimethylbenzene	8.4		0.98	0.31	ug/m3			03/14/14 21:28	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 21:28	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 21:28	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 21:28	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 21:28	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 21:28	1
1,3,5-Trimethylbenzene	3.1		0.98	0.32	ug/m3			03/14/14 21:28	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 21:28	1

Client Sample ID: PCV-IA3-B13
Date Collected: 03/11/14 16:14
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 21:28	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 21:28	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 21:28	1
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3			03/14/14 21:28	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 21:28	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/14/14 21:28	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 21:28	1
2-Methylbutane	3.5		1.5	0.091	ug/m3			03/14/14 21:28	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 21:28	1
4-Ethyltoluene	3.4		2.0	0.32	ug/m3			03/14/14 21:28	1
4-Methyl-2-pentanone (MIBK)	2.2		2.0	0.18	ug/m3			03/14/14 21:28	1
~~Acetone~~	~~400~~	~~E~~	~~12~~	~~3.3~~	~~ug/m3~~			~~03/14/14 21:28~~	~~1~~
Benzene	1.1		0.64	0.18	ug/m3			03/14/14 21:28	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 21:28	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 21:28	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 21:28	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 21:28	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 21:28	1
Carbon tetrachloride	0.36	J	1.3	0.24	ug/m3			03/14/14 21:28	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 21:28	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 21:28	1
Chloroform	0.86	J	0.98	0.19	ug/m3			03/14/14 21:28	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/14/14 21:28	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 21:28	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 21:28	1
Cyclohexane	0.26	J	1.7	0.14	ug/m3			03/14/14 21:28	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 21:28	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/14/14 21:28	1
Ethanol	53		3.8	3.8	ug/m3			03/14/14 21:28	1
Ethylbenzene	0.97		0.87	0.30	ug/m3			03/14/14 21:28	1
Heptane	0.68	J	2.0	0.19	ug/m3			03/14/14 21:28	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 21:28	1
Hexane	0.87	J	1.8	0.11	ug/m3			03/14/14 21:28	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 21:28	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 21:28	1
Isopropyl alcohol	3.7	J	4.9	0.23	ug/m3			03/14/14 21:28	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 21:28	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/14/14 21:28	1
m-Xylene & p-Xylene	4.2		0.87	0.52	ug/m3			03/14/14 21:28	1
Naphthalene	3.7		2.6	0.47	ug/m3			03/14/14 21:28	1
o-Xylene	1.7		0.87	0.26	ug/m3			03/14/14 21:28	1
Propene	ND		0.86	0.13	ug/m3			03/14/14 21:28	1
Styrene	1.1		0.85	0.25	ug/m3			03/14/14 21:28	1
Tetrachloroethene	0.77	J	1.4	0.27	ug/m3			03/14/14 21:28	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 21:28	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 21:28	1
~~Toluene~~	~~210~~	~~E~~	~~0.75~~	~~0.45~~	~~ug/m3~~			~~03/14/14 21:28~~	~~1~~
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 21:28	1

Client Sample ID: PCV-IA3-B13

Lab Sample ID: 140-1041-7

Date Collected: 03/11/14 16:14
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 21:28	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 21:28	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 21:28	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/14/14 21:28*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	220		33	9.3	ppb v/v			03/18/14 06:03	1
Toluene	72		1.3	0.80	ppb v/v			03/18/14 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	520		79	22	ug/m3			03/18/14 06:03	1
Toluene	270		5.0	3.0	ug/m3			03/18/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*60 - 140*		*03/18/14 06:03*	*1*

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 22:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v			03/14/14 22:13	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 22:13	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 22:13	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 22:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 22:13	1
1,2,4-Trimethylbenzene	0.069	J	0.20	0.063	ppb v/v			03/14/14 22:13	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 22:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 22:13	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 22:13	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 22:13	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 22:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:13	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 22:13	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:13	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/14/14 22:13	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 22:13	1
2,2,4-Trimethylpentane	0.049	J	0.50	0.039	ppb v/v			03/14/14 22:13	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
2-Butanone (MEK)	0.60	J	1.0	0.20	ppb v/v			03/14/14 22:13	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 22:13	1

Client Sample ID: PCV-AMB-3
Date Collected: 03/11/14 16:18
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	0.66		0.50	0.031	ppb v/v			03/14/14 22:13	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 22:13	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v			03/14/14 22:13	1
Acetone	7.2		5.0	1.4	ppb v/v			03/14/14 22:13	1
Benzene	0.22		0.20	0.056	ppb v/v			03/14/14 22:13	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 22:13	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 22:13	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 22:13	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 22:13	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 22:13	1
Carbon tetrachloride	0.063	J	0.20	0.038	ppb v/v			03/14/14 22:13	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 22:13	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 22:13	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 22:13	1
Chloromethane	0.43	J	0.50	0.16	ppb v/v			03/14/14 22:13	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 22:13	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 22:13	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 22:13	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 22:13	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/14/14 22:13	1
Ethanol	14		2.0	2.0	ppb v/v			03/14/14 22:13	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 22:13	1
Heptane	0.057	J	0.50	0.047	ppb v/v			03/14/14 22:13	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 22:13	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/14/14 22:13	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 22:13	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/14/14 22:13	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 22:13	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/14/14 22:13	1
m-Xylene & p-Xylene	0.18	J	0.20	0.12	ppb v/v			03/14/14 22:13	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 22:13	1
o-Xylene	0.067	J	0.20	0.061	ppb v/v			03/14/14 22:13	1
Propene	1.3	~~cn~~ J	0.50	0.077	ppb v/v			03/14/14 22:13	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 22:13	1
Tetrachloroethene	0.076	J	0.20	0.040	ppb v/v			03/14/14 22:13	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 22:13	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 22:13	1
Toluene	0.60		0.20	0.12	ppb v/v			03/14/14 22:13	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 22:13	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 22:13	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 22:13	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/14/14 22:13	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 22:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 22:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 22:13	1

Client Sample ID: PCV-AMB-3
Date Collected: 03/11/14 16:18
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3			03/14/14 22:13	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 22:13	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 22:13	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 22:13	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 22:13	1
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3			03/14/14 22:13	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 22:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 22:13	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 22:13	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 22:13	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 22:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 22:13	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 22:13	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 22:13	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/14/14 22:13	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 22:13	1
2,2,4-Trimethylpentane	0.23	J	2.3	0.18	ug/m3			03/14/14 22:13	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 22:13	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/14/14 22:13	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 22:13	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/14/14 22:13	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 22:13	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 22:13	1
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3			03/14/14 22:13	1
Acetone	17		12	3.3	ug/m3			03/14/14 22:13	1
Benzene	0.70		0.64	0.18	ug/m3			03/14/14 22:13	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 22:13	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 22:13	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 22:13	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 22:13	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 22:13	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/14/14 22:13	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 22:13	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 22:13	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 22:13	1
Chloromethane	0.89	J	1.0	0.33	ug/m3			03/14/14 22:13	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 22:13	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 22:13	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 22:13	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 22:13	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/14/14 22:13	1
Ethanol	26		3.8	3.8	ug/m3			03/14/14 22:13	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 22:13	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/14/14 22:13	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 22:13	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/14/14 22:13	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 22:13	1
Indene	ND		1.9	1.9	ug/m3			03/14/14 22:13	1

Client Sample ID: PCV-AMB-3

Lab Sample ID: 140-1041-8

Date Collected: 03/11/14 16:18
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/14/14 22:13	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 22:13	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/14/14 22:13	1
m-Xylene & p-Xylene	0.77	J	0.87	0.52	ug/m3			03/14/14 22:13	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 22:13	1
o-Xylene	0.29	J	0.87	0.26	ug/m3			03/14/14 22:13	1
Propene	2.2	~~or~~ J	0.86	0.13	ug/m3			03/14/14 22:13	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 22:13	1
Tetrachloroethene	0.52	J	1.4	0.27	ug/m3			03/14/14 22:13	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 22:13	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 22:13	1
Toluene	2.2		0.75	0.45	ug/m3			03/14/14 22:13	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 22:13	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 22:13	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 22:13	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 22:13	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/14/14 22:13*	*1*

Client Sample ID: PCV-IA1-B14

Lab Sample ID: 140-1041-9

Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/14/14 22:59	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 22:59	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 22:59	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 22:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 22:59	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 22:59	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 22:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 22:59	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 22:59	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 22:59	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 22:59	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:59	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 22:59	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 22:59	1
1,4-Dichlorobenzene	0.37		0.20	0.064	ppb v/v			03/14/14 22:59	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 22:59	1
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v			03/14/14 22:59	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1

Client Sample ID: PCV-IA1-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v			03/14/14 22:59	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 22:59	1
2-Methylbutane	0.69		0.50	0.031	ppb v/v			03/14/14 22:59	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 22:59	1
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v			03/14/14 22:59	1
Acetone	2.7	J	5.0	1.4	ppb v/v			03/14/14 22:59	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/14/14 22:59	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 22:59	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 22:59	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 22:59	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 22:59	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 22:59	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/14/14 22:59	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 22:59	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 22:59	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 22:59	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/14/14 22:59	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 22:59	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 22:59	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/14/14 22:59	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 22:59	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/14/14 22:59	1
Ethanol	12		2.0	2.0	ppb v/v			03/14/14 22:59	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 22:59	1
Heptane	0.061	J	0.50	0.047	ppb v/v			03/14/14 22:59	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 22:59	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/14/14 22:59	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 22:59	1
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v			03/14/14 22:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 22:59	1
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v			03/14/14 22:59	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/14/14 22:59	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 22:59	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 22:59	1
Propene	0.95	~~on~~ J	0.50	0.077	ppb v/v			03/14/14 22:59	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 22:59	1
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v			03/14/14 22:59	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 22:59	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 22:59	1
Toluene	0.27		0.20	0.12	ppb v/v			03/14/14 22:59	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 22:59	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 22:59	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 22:59	1
Trichlorofluoromethane	0.26	J	0.20	0.024	ppb v/v			03/14/14 22:59	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 22:59	1

Client Sample ID: PCV-IA1-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/14/14 22:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 22:59	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 22:59	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 22:59	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 22:59	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 22:59	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 22:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 22:59	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 22:59	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 22:59	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 22:59	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 22:59	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 22:59	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 22:59	1
1,4-Dichlorobenzene	2.2		1.2	0.38	ug/m3			03/14/14 22:59	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 22:59	1
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3			03/14/14 22:59	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 22:59	1
2-Butanone (MEK)	0.74	J	2.9	0.59	ug/m3			03/14/14 22:59	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 22:59	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/14/14 22:59	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 22:59	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 22:59	1
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3			03/14/14 22:59	1
Acetone	6.5	J	12	3.3	ug/m3			03/14/14 22:59	1
Benzene	0.61	J	0.64	0.18	ug/m3			03/14/14 22:59	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 22:59	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 22:59	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 22:59	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 22:59	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 22:59	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/14/14 22:59	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 22:59	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 22:59	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 22:59	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/14/14 22:59	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 22:59	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 22:59	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/14/14 22:59	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 22:59	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/14/14 22:59	1
Ethanol	24		3.8	3.8	ug/m3			03/14/14 22:59	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 22:59	1
Heptane	0.25	J	2.0	0.19	ug/m3			03/14/14 22:59	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 22:59	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/14/14 22:59	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 22:59	1

Client Sample ID: PCV-IA1-B14

Lab Sample ID: 140-1041-9

Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 22:59	1
Isopropyl alcohol	2.6	J	4.9	0.23	ug/m3			03/14/14 22:59	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 22:59	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/14/14 22:59	1
m-Xylene & p-Xylene	0.56	J	0.87	0.52	ug/m3			03/14/14 22:59	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 22:59	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 22:59	1
Propene	1.6	~~cn~~ J	0.86	0.13	ug/m3			03/14/14 22:59	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 22:59	1
Tetrachloroethene	0.45	J	1.4	0.27	ug/m3			03/14/14 22:59	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 22:59	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 22:59	1
Toluene	1.0		0.75	0.45	ug/m3			03/14/14 22:59	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 22:59	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 22:59	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 22:59	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 22:59	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/14/14 22:59*	*1*

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/14/14 23:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/14/14 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/14/14 23:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/14/14 23:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/14/14 23:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/14/14 23:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/14/14 23:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/14/14 23:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/14/14 23:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/14/14 23:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/14/14 23:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/14/14 23:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/14/14 23:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/14/14 23:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/14/14 23:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/14/14 23:45	1
1,4-Dichlorobenzene	0.42		0.20	0.064	ppb v/v			03/14/14 23:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/14/14 23:45	1
2,2,4-Trimethylpentane	0.048	J	0.50	0.039	ppb v/v			03/14/14 23:45	1

Client Sample ID: PCV-IA1FD-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v			03/14/14 23:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/14/14 23:45	1
2-Methylbutane	0.73		0.50	0.031	ppb v/v			03/14/14 23:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/14/14 23:45	1
4-Methyl-2-pentanone (MIBK)	0.084	J	0.50	0.045	ppb v/v			03/14/14 23:45	1
Acetone	3.5	J	5.0	1.4	ppb v/v			03/14/14 23:45	1
Benzene	0.20		0.20	0.056	ppb v/v			03/14/14 23:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/14/14 23:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/14/14 23:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/14/14 23:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/14/14 23:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/14/14 23:45	1
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v			03/14/14 23:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/14/14 23:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/14/14 23:45	1
Chloroform	ND		0.20	0.038	ppb v/v			03/14/14 23:45	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/14/14 23:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/14/14 23:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/14/14 23:45	1
Cyclohexane	0.043	J	0.50	0.040	ppb v/v			03/14/14 23:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/14/14 23:45	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/14/14 23:45	1
Ethanol	13		2.0	2.0	ppb v/v			03/14/14 23:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/14/14 23:45	1
Heptane	0.075	J	0.50	0.047	ppb v/v			03/14/14 23:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/14/14 23:45	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/14/14 23:45	1
Indane	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
Indene	ND		0.40	0.40	ppb v/v			03/14/14 23:45	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/14/14 23:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/14/14 23:45	1
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v			03/14/14 23:45	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/14/14 23:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/14/14 23:45	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/14/14 23:45	1
Propene	1.1	~~cn~~ J	0.50	0.077	ppb v/v			03/14/14 23:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/14/14 23:45	1
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v			03/14/14 23:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/14/14 23:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/14/14 23:45	1
Toluene	0.27		0.20	0.12	ppb v/v			03/14/14 23:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/14/14 23:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/14/14 23:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/14/14 23:45	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/14/14 23:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/14/14 23:45	1

Client Sample ID: PCV-IA1FD-B14
Date Collected: 03/11/14 16:35
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-10
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/14/14 23:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/14/14 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/14/14 23:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/14/14 23:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/14/14 23:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/14/14 23:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/14/14 23:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/14/14 23:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/14/14 23:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/14/14 23:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/14/14 23:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/14/14 23:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/14/14 23:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/14/14 23:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/14/14 23:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/14/14 23:45	1
1,4-Dichlorobenzene	2.5		1.2	0.38	ug/m3			03/14/14 23:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/14/14 23:45	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/14/14 23:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/14/14 23:45	1
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3			03/14/14 23:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/14/14 23:45	1
2-Methylbutane	2.2		1.5	0.091	ug/m3			03/14/14 23:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/14/14 23:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/14/14 23:45	1
4-Methyl-2-pentanone (MIBK)	0.34	J	2.0	0.18	ug/m3			03/14/14 23:45	1
Acetone	8.4	J	12	3.3	ug/m3			03/14/14 23:45	1
Benzene	0.64		0.64	0.18	ug/m3			03/14/14 23:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/14/14 23:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/14/14 23:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/14/14 23:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/14/14 23:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/14/14 23:45	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/14/14 23:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/14/14 23:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/14/14 23:45	1
Chloroform	ND		0.98	0.19	ug/m3			03/14/14 23:45	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/14/14 23:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/14/14 23:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/14/14 23:45	1
Cyclohexane	0.15	J	1.7	0.14	ug/m3			03/14/14 23:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/14/14 23:45	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/14/14 23:45	1
Ethanol	25		3.8	3.8	ug/m3			03/14/14 23:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/14/14 23:45	1
Heptane	0.31	J	2.0	0.19	ug/m3			03/14/14 23:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/14/14 23:45	1
Hexane	0.49	J	1.8	0.11	ug/m3			03/14/14 23:45	1
Indane	ND		0.97	0.97	ug/m3			03/14/14 23:45	1

Client Sample ID: PCV-IA1FD-B14

Lab Sample ID: 140-1041-10

Date Collected: 03/11/14 16:35
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/14/14 23:45	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/14/14 23:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/14/14 23:45	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/14/14 23:45	1
m-Xylene & p-Xylene	0.57	J	0.87	0.52	ug/m3			03/14/14 23:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/14/14 23:45	1
o-Xylene	ND		0.87	0.26	ug/m3			03/14/14 23:45	1
Propene	1.8	~~or~~ J	0.86	0.13	ug/m3			03/14/14 23:45	1
Styrene	ND		0.85	0.25	ug/m3			03/14/14 23:45	1
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3			03/14/14 23:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/14/14 23:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/14/14 23:45	1
Toluene	1.0		0.75	0.45	ug/m3			03/14/14 23:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/14/14 23:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/14/14 23:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/14/14 23:45	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/14/14 23:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/14/14 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/14/14 23:45*	*1*

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Date Collected: 03/11/14 16:42
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/15/14 00:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 00:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 00:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 00:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 00:31	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 00:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 00:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 00:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 00:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 00:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 00:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 00:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 00:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 00:31	1
1,4-Dichlorobenzene	0.38		0.20	0.064	ppb v/v			03/15/14 00:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 00:31	1
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v			03/15/14 00:31	1

Client Sample ID: PCV-IA2-B14
Date Collected: 03/11/14 16:42
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v			03/15/14 00:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 00:31	1
2-Methylbutane	0.85		0.50	0.031	ppb v/v			03/15/14 00:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 00:31	1
4-Methyl-2-pentanone (MIBK)	0.052	J	0.50	0.045	ppb v/v			03/15/14 00:31	1
Acetone	6.1		5.0	1.4	ppb v/v			03/15/14 00:31	1
Benzene	0.21		0.20	0.056	ppb v/v			03/15/14 00:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 00:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 00:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 00:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 00:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 00:31	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/15/14 00:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 00:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 00:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 00:31	1
Chloromethane	0.48	J	0.50	0.16	ppb v/v			03/15/14 00:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 00:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 00:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 00:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 00:31	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/15/14 00:31	1
Ethanol	17		2.0	2.0	ppb v/v			03/15/14 00:31	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 00:31	1
Heptane	0.078	J	0.50	0.047	ppb v/v			03/15/14 00:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 00:31	1
Hexane	0.16	J	0.50	0.032	ppb v/v			03/15/14 00:31	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 00:31	1
Isopropyl alcohol	15		2.0	0.094	ppb v/v			03/15/14 00:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 00:31	1
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v			03/15/14 00:31	1
m-Xylene & p-Xylene	0.16	J	0.20	0.12	ppb v/v			03/15/14 00:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 00:31	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 00:31	1
Propene	1.0	~~or~~ J	0.50	0.077	ppb v/v			03/15/14 00:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 00:31	1
Tetrachloroethene	0.065	J	0.20	0.040	ppb v/v			03/15/14 00:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 00:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 00:31	1
Toluene	0.29		0.20	0.12	ppb v/v			03/15/14 00:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 00:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 00:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 00:31	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/15/14 00:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 00:31	1

Client Sample ID: PCV-IA2-B14
Date Collected: 03/11/14 16:42
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-11
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.50	J	1.5	0.24	ug/m3			03/15/14 00:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 00:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 00:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 00:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 00:31	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 00:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 00:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 00:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 00:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 00:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 00:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 00:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 00:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 00:31	1
1,4-Dichlorobenzene	2.3		1.2	0.38	ug/m3			03/15/14 00:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 00:31	1
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3			03/15/14 00:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 00:31	1
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3			03/15/14 00:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 00:31	1
2-Methylbutane	2.5		1.5	0.091	ug/m3			03/15/14 00:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 00:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 00:31	1
4-Methyl-2-pentanone (MIBK)	0.21	J	2.0	0.18	ug/m3			03/15/14 00:31	1
Acetone	14		12	3.3	ug/m3			03/15/14 00:31	1
Benzene	0.67		0.64	0.18	ug/m3			03/15/14 00:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 00:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 00:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 00:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 00:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 00:31	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/15/14 00:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 00:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 00:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 00:31	1
Chloromethane	0.99	J	1.0	0.33	ug/m3			03/15/14 00:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 00:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 00:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 00:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 00:31	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/15/14 00:31	1
Ethanol	31		3.8	3.8	ug/m3			03/15/14 00:31	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 00:31	1
Heptane	0.32	J	2.0	0.19	ug/m3			03/15/14 00:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 00:31	1
Hexane	0.58	J	1.8	0.11	ug/m3			03/15/14 00:31	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 00:31	1

Client Sample ID: PCV-IA2-B14

Lab Sample ID: 140-1041-11

Date Collected: 03/11/14 16:42
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 00:31	1
Isopropyl alcohol	37		4.9	0.23	ug/m3			03/15/14 00:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 00:31	1
Methylene Chloride	1.1	J	1.7	0.45	ug/m3			03/15/14 00:31	1
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3			03/15/14 00:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 00:31	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 00:31	1
Propene	1.8	~~cn~~ J	0.86	0.13	ug/m3			03/15/14 00:31	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 00:31	1
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3			03/15/14 00:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 00:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 00:31	1
Toluene	1.1		0.75	0.45	ug/m3			03/15/14 00:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 00:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 00:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 00:31	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/15/14 00:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 00:31*	*1*

Client Sample ID: PCV-IA1-B4

Lab Sample ID: 140-1041-12

Date Collected: 03/11/14 15:26
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 01:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/15/14 01:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 01:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 01:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 01:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 01:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 01:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 01:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 01:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 01:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 01:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 01:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 01:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 01:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 01:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 01:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 01:16	1
2,2,4-Trimethylpentane	0.061	J	0.50	0.039	ppb v/v			03/15/14 01:16	1

Client Sample ID: PCV-IA1-B4
Date Collected: 03/11/14 15:26
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v			03/15/14 01:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 01:16	1
2-Methylbutane	1.4		0.50	0.031	ppb v/v			03/15/14 01:16	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 01:16	1
Acetone	3.6	J	5.0	1.4	ppb v/v			03/15/14 01:16	1
Benzene	0.22		0.20	0.056	ppb v/v			03/15/14 01:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 01:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 01:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 01:16	1
Bromomethane	0.041	J	0.20	0.032	ppb v/v			03/15/14 01:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 01:16	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/15/14 01:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 01:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 01:16	1
Chloroform	0.040	J	0.20	0.038	ppb v/v			03/15/14 01:16	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/15/14 01:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 01:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 01:16	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 01:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 01:16	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/15/14 01:16	1
Ethanol	32		2.0	2.0	ppb v/v			03/15/14 01:16	1
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v			03/15/14 01:16	1
Heptane	0.070	J	0.50	0.047	ppb v/v			03/15/14 01:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 01:16	1
Hexane	0.59		0.50	0.032	ppb v/v			03/15/14 01:16	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 01:16	1
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v			03/15/14 01:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 01:16	1
Methylene Chloride	4.5		0.50	0.13	ppb v/v			03/15/14 01:16	1
m-Xylene & p-Xylene	0.29		0.20	0.12	ppb v/v			03/15/14 01:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 01:16	1
o-Xylene	0.097	J	0.20	0.061	ppb v/v			03/15/14 01:16	1
Propene	1.3	~~cn~~ J	0.50	0.077	ppb v/v			03/15/14 01:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 01:16	1
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v			03/15/14 01:16	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 01:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 01:16	1
Toluene	0.67		0.20	0.12	ppb v/v			03/15/14 01:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 01:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 01:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 01:16	1
Trichlorofluoromethane	0.35	J	0.20	0.024	ppb v/v			03/15/14 01:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 01:16	1

Client Sample ID: PCV-IA1-B4
Date Collected: 03/11/14 15:26
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 01:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3			03/15/14 01:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 01:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 01:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 01:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 01:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 01:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 01:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 01:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 01:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 01:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 01:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 01:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 01:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 01:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 01:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 01:16	1
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3			03/15/14 01:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 01:16	1
2-Butanone (MEK)	0.81	J	2.9	0.59	ug/m3			03/15/14 01:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 01:16	1
2-Methylbutane	4.0		1.5	0.091	ug/m3			03/15/14 01:16	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 01:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 01:16	1
Acetone	8.6	J	12	3.3	ug/m3			03/15/14 01:16	1
Benzene	0.71		0.64	0.18	ug/m3			03/15/14 01:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 01:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 01:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 01:16	1
Bromomethane	0.16	J	0.78	0.12	ug/m3			03/15/14 01:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 01:16	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/15/14 01:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 01:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 01:16	1
Chloroform	0.19	J	0.98	0.19	ug/m3			03/15/14 01:16	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/15/14 01:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 01:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 01:16	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 01:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 01:16	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/15/14 01:16	1
Ethanol	60		3.8	3.8	ug/m3			03/15/14 01:16	1
Ethylbenzene	0.32	J	0.87	0.30	ug/m3			03/15/14 01:16	1
Heptane	0.29	J	2.0	0.19	ug/m3			03/15/14 01:16	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 01:16	1
Hexane	2.1		1.8	0.11	ug/m3			03/15/14 01:16	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 01:16	1

Client Sample ID: PCV-IA1-B4
Date Collected: 03/11/14 15:26
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 01:16	1
Isopropyl alcohol	6.4		4.9	0.23	ug/m3			03/15/14 01:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 01:16	1
Methylene Chloride	16		1.7	0.45	ug/m3			03/15/14 01:16	1
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3			03/15/14 01:16	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 01:16	1
o-Xylene	0.42	J	0.87	0.26	ug/m3			03/15/14 01:16	1
Propene	2.2 ~~on~~ J		0.86	0.13	ug/m3			03/15/14 01:16	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 01:16	1
Tetrachloroethene	0.45	J	1.4	0.27	ug/m3			03/15/14 01:16	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 01:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 01:16	1
Toluene	2.5		0.75	0.45	ug/m3			03/15/14 01:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 01:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 01:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 01:16	1
Trichlorofluoromethane	1.9 J		1.1	0.13	ug/m3			03/15/14 01:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/15/14 01:16*	*1*

Client Sample ID: PCV-IA1-B3
Date Collected: 03/11/14 15:50
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/15/14 02:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 02:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 02:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 02:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 02:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 02:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 02:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 02:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 02:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 02:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 02:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 02:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 02:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 02:01	1
2,2,4-Trimethylpentane	0.053	J	0.50	0.039	ppb v/v			03/15/14 02:01	1

Client Sample ID: PCV-IA1-B3
Date Collected: 03/11/14 15:50
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
2-Butanone (MEK)	0.28	J	1.0	0.20	ppb v/v			03/15/14 02:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 02:01	1
2-Methylbutane	0.78		0.50	0.031	ppb v/v			03/15/14 02:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 02:01	1
4-Methyl-2-pentanone (MIBK)	0.056	J	0.50	0.045	ppb v/v			03/15/14 02:01	1
Acetone	3.3	J	5.0	1.4	ppb v/v			03/15/14 02:01	1
Benzene	0.23		0.20	0.056	ppb v/v			03/15/14 02:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 02:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 02:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 02:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 02:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 02:01	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/15/14 02:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 02:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 02:01	1
Chloroform	0.30		0.20	0.038	ppb v/v			03/15/14 02:01	1
Chloromethane	0.54		0.50	0.16	ppb v/v			03/15/14 02:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 02:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 02:01	1
Cyclohexane	0.049	J	0.50	0.040	ppb v/v			03/15/14 02:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 02:01	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/15/14 02:01	1
Ethanol	35		2.0	2.0	ppb v/v			03/15/14 02:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 02:01	1
Heptane	0.055	J	0.50	0.047	ppb v/v			03/15/14 02:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 02:01	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/15/14 02:01	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 02:01	1
Isopropyl alcohol	1.8	J	2.0	0.094	ppb v/v			03/15/14 02:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 02:01	1
Methylene Chloride	0.73		0.50	0.13	ppb v/v			03/15/14 02:01	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/15/14 02:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 02:01	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 02:01	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 02:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 02:01	1
Tetrachloroethene	0.11	J	0.20	0.040	ppb v/v			03/15/14 02:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 02:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 02:01	1
Toluene	0.28		0.20	0.12	ppb v/v			03/15/14 02:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 02:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 02:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 02:01	1
Trichlorofluoromethane	0.31	J	0.20	0.024	ppb v/v			03/15/14 02:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 02:01	1

Client Sample ID: PCV-IA1-B3
Date Collected: 03/11/14 15:50
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 02:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/15/14 02:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 02:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 02:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 02:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 02:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 02:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 02:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 02:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 02:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 02:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 02:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 02:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 02:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 02:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 02:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 02:01	1
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3			03/15/14 02:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 02:01	1
2-Butanone (MEK)	0.84	J	2.9	0.59	ug/m3			03/15/14 02:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 02:01	1
2-Methylbutane	2.3		1.5	0.091	ug/m3			03/15/14 02:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 02:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 02:01	1
4-Methyl-2-pentanone (MIBK)	0.23	J	2.0	0.18	ug/m3			03/15/14 02:01	1
Acetone	7.8	J	12	3.3	ug/m3			03/15/14 02:01	1
Benzene	0.74		0.64	0.18	ug/m3			03/15/14 02:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 02:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 02:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 02:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 02:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 02:01	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/15/14 02:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 02:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 02:01	1
Chloroform	1.5		0.98	0.19	ug/m3			03/15/14 02:01	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/15/14 02:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 02:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 02:01	1
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/15/14 02:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 02:01	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/15/14 02:01	1
Ethanol	66		3.8	3.8	ug/m3			03/15/14 02:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 02:01	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/15/14 02:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 02:01	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/15/14 02:01	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 02:01	1

Client Sample ID: PCV-IA1-B3

Lab Sample ID: 140-1041-13

Date Collected: 03/11/14 15:50
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 02:01	1
Isopropyl alcohol	4.4	J	4.9	0.23	ug/m3			03/15/14 02:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 02:01	1
Methylene Chloride	2.5		1.7	0.45	ug/m3			03/15/14 02:01	1
m-Xylene & p-Xylene	0.58	J	0.87	0.52	ug/m3			03/15/14 02:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 02:01	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 02:01	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 02:01	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 02:01	1
Tetrachloroethene	0.77	J	1.4	0.27	ug/m3			03/15/14 02:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 02:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 02:01	1
Toluene	1.0		0.75	0.45	ug/m3			03/15/14 02:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 02:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 02:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 02:01	1
Trichlorofluoromethane	1.7	J	1.1	0.13	ug/m3			03/15/14 02:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 02:01*	*1*

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Date Collected: 03/11/14 16:04
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 02:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/15/14 02:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 02:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 02:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 02:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 02:46	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 02:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 02:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 02:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 02:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 02:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 02:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:46	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 02:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 02:46	1
1,4-Dichlorobenzene	0.35		0.20	0.064	ppb v/v			03/15/14 02:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 02:46	1
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v			03/15/14 02:46	1

Client Sample ID: PCV-IA2-B3
Date Collected: 03/11/14 16:04
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
2-Butanone (MEK)	0.45	J	1.0	0.20	ppb v/v			03/15/14 02:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 02:46	1
2-Methylbutane	0.87		0.50	0.031	ppb v/v			03/15/14 02:46	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 02:46	1
Acetone	5.4		5.0	1.4	ppb v/v			03/15/14 02:46	1
Benzene	0.22		0.20	0.056	ppb v/v			03/15/14 02:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 02:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 02:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 02:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 02:46	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 02:46	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/15/14 02:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 02:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 02:46	1
Chloroform	0.98		0.20	0.038	ppb v/v			03/15/14 02:46	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/15/14 02:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 02:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 02:46	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 02:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 02:46	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/15/14 02:46	1
Ethanol	22		2.0	2.0	ppb v/v			03/15/14 02:46	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 02:46	1
Heptane	0.059	J	0.50	0.047	ppb v/v			03/15/14 02:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 02:46	1
Hexane	0.13	J	0.50	0.032	ppb v/v			03/15/14 02:46	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 02:46	1
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v			03/15/14 02:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 02:46	1
Methylene Chloride	0.59		0.50	0.13	ppb v/v			03/15/14 02:46	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/15/14 02:46	1
Naphthalene	0.43	J	0.50	0.090	ppb v/v			03/15/14 02:46	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 02:46	1
Propene	1.2	~~CR~~ J	0.50	0.077	ppb v/v			03/15/14 02:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 02:46	1
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v			03/15/14 02:46	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 02:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 02:46	1
Toluene	0.25		0.20	0.12	ppb v/v			03/15/14 02:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 02:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 02:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 02:46	1
Trichlorofluoromethane	0.31	J	0.20	0.024	ppb v/v			03/15/14 02:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 02:46	1

Client Sample ID: PCV-IA2-B3
Date Collected: 03/11/14 16:04
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 02:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/15/14 02:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 02:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 02:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 02:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 02:46	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 02:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 02:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 02:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 02:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 02:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 02:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 02:46	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 02:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 02:46	1
1,4-Dichlorobenzene	2.1		1.2	0.38	ug/m3			03/15/14 02:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 02:46	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/15/14 02:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 02:46	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/15/14 02:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 02:46	1
2-Methylbutane	2.6		1.5	0.091	ug/m3			03/15/14 02:46	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 02:46	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 02:46	1
Acetone	13		12	3.3	ug/m3			03/15/14 02:46	1
Benzene	0.69		0.64	0.18	ug/m3			03/15/14 02:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 02:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 02:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 02:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 02:46	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 02:46	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/15/14 02:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 02:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 02:46	1
Chloroform	4.8		0.98	0.19	ug/m3			03/15/14 02:46	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/15/14 02:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 02:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 02:46	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 02:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 02:46	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/15/14 02:46	1
Ethanol	42		3.8	3.8	ug/m3			03/15/14 02:46	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 02:46	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/15/14 02:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 02:46	1
Hexane	0.46	J	1.8	0.11	ug/m3			03/15/14 02:46	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 02:46	1

Client Sample ID: PCV-IA2-B3

Lab Sample ID: 140-1041-14

Date Collected: 03/11/14 16:04
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 02:46	1
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3			03/15/14 02:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 02:46	1
Methylene Chloride	2.1		1.7	0.45	ug/m3			03/15/14 02:46	1
m-Xylene & p-Xylene	0.55	J	0.87	0.52	ug/m3			03/15/14 02:46	1
Naphthalene	2.3	J	2.6	0.47	ug/m3			03/15/14 02:46	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 02:46	1
Propene	2.1	~~or~~ J	0.86	0.13	ug/m3			03/15/14 02:46	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 02:46	1
Tetrachloroethene	0.68	J	1.4	0.27	ug/m3			03/15/14 02:46	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 02:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 02:46	1
Toluene	0.94		0.75	0.45	ug/m3			03/15/14 02:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 02:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 02:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 02:46	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/15/14 02:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 02:46*	*1*

Client Sample ID: PCV-IA3-B3

Lab Sample ID: 140-1041-15

Date Collected: 03/11/14 16:21
Matrix: Air
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 03:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/15/14 03:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 03:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 03:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 03:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 03:32	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 03:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 03:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 03:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 03:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 03:32	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 03:32	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 03:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 03:32	1
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v			03/15/14 03:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 03:32	1
2,2,4-Trimethylpentane	0.054	J	0.50	0.039	ppb v/v			03/15/14 03:32	1

Client Sample ID: PCV-IA3-B3
Date Collected: 03/11/14 16:21
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
2-Butanone (MEK)	0.39	J	1.0	0.20	ppb v/v			03/15/14 03:32	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 03:32	1
2-Methylbutane	0.90		0.50	0.031	ppb v/v			03/15/14 03:32	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 03:32	1
4-Methyl-2-pentanone (MIBK)	0.052	J	0.50	0.045	ppb v/v			03/15/14 03:32	1
Acetone	4.7	J	5.0	1.4	ppb v/v			03/15/14 03:32	1
Benzene	0.23		0.20	0.056	ppb v/v			03/15/14 03:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 03:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 03:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 03:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 03:32	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 03:32	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/15/14 03:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 03:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 03:32	1
Chloroform	0.85		0.20	0.038	ppb v/v			03/15/14 03:32	1
Chloromethane	0.61		0.50	0.16	ppb v/v			03/15/14 03:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 03:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 03:32	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 03:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 03:32	1
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v			03/15/14 03:32	1
Ethanol	33		2.0	2.0	ppb v/v			03/15/14 03:32	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 03:32	1
Heptane	0.15	J	0.50	0.047	ppb v/v			03/15/14 03:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 03:32	1
Hexane	0.33	J	0.50	0.032	ppb v/v			03/15/14 03:32	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 03:32	1
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v			03/15/14 03:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 03:32	1
Methylene Chloride	1.1		0.50	0.13	ppb v/v			03/15/14 03:32	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/15/14 03:32	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 03:32	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 03:32	1
Propene	1.6	~~BR~~ J	0.50	0.077	ppb v/v			03/15/14 03:32	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 03:32	1
Tetrachloroethene	~~0.098~~ ~~J~~ 0.20 U		0.20	0.040	ppb v/v			03/15/14 03:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 03:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 03:32	1
Toluene	0.27		0.20	0.12	ppb v/v			03/15/14 03:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 03:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 03:32	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 03:32	1
Trichlorofluoromethane	0.36	J	0.20	0.024	ppb v/v			03/15/14 03:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 03:32	1

Client Sample ID: PCV-IA3-B3
Date Collected: 03/11/14 16:21
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 03:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/15/14 03:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 03:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 03:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 03:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 03:32	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 03:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 03:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 03:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 03:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 03:32	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 03:32	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 03:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 03:32	1
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3			03/15/14 03:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 03:32	1
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3			03/15/14 03:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 03:32	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/15/14 03:32	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 03:32	1
2-Methylbutane	2.6		1.5	0.091	ug/m3			03/15/14 03:32	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 03:32	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 03:32	1
4-Methyl-2-pentanone (MIBK)	0.21	J	2.0	0.18	ug/m3			03/15/14 03:32	1
Acetone	11	J	12	3.3	ug/m3			03/15/14 03:32	1
Benzene	0.74		0.64	0.18	ug/m3			03/15/14 03:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 03:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 03:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 03:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 03:32	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 03:32	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/15/14 03:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 03:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 03:32	1
Chloroform	4.2		0.98	0.19	ug/m3			03/15/14 03:32	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/15/14 03:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 03:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 03:32	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 03:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 03:32	1
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3			03/15/14 03:32	1
Ethanol	61		3.8	3.8	ug/m3			03/15/14 03:32	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 03:32	1
Heptane	0.60	J	2.0	0.19	ug/m3			03/15/14 03:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 03:32	1
Hexane	1.2	J	1.8	0.11	ug/m3			03/15/14 03:32	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 03:32	1

Client Sample ID: PCV-IA3-B3
Date Collected: 03/11/14 16:21
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 03:32	1
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3			03/15/14 03:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 03:32	1
Methylene Chloride	3.7		1.7	0.45	ug/m3			03/15/14 03:32	1
m-Xylene & p-Xylene	0.56	J	0.87	0.52	ug/m3			03/15/14 03:32	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 03:32	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 03:32	1
Propene	2.7	~~on~~ J	0.86	0.13	ug/m3			03/15/14 03:32	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 03:32	1
Tetrachloroethene	~~0.67~~ ~~J~~	1.4 U	1.4	0.27	ug/m3			03/15/14 03:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 03:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 03:32	1
Toluene	1.0		0.75	0.45	ug/m3			03/15/14 03:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 03:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 03:32	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 03:32	1
Trichlorofluoromethane	2.0	J	1.1	0.13	ug/m3			03/15/14 03:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 03:32*	*1*

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 05:03	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 05:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/15/14 05:03	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 05:03	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 05:03	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 05:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 05:03	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 05:03	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 05:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 05:03	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 05:03	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 05:03	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 05:03	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:03	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 05:03	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:03	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 05:03	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 05:03	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/15/14 05:03	1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v			03/15/14 05:03	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 05:03	1
2-Methylbutane	0.60		0.50	0.031	ppb v/v			03/15/14 05:03	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 05:03	1
4-Methyl-2-pentanone (MIBK)	0.068	J	0.50	0.045	ppb v/v			03/15/14 05:03	1
Acetone	5.5		5.0	1.4	ppb v/v			03/15/14 05:03	1
Benzene	0.17	J	0.20	0.056	ppb v/v			03/15/14 05:03	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 05:03	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 05:03	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 05:03	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 05:03	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 05:03	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/15/14 05:03	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 05:03	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 05:03	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 05:03	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			03/15/14 05:03	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 05:03	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 05:03	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 05:03	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 05:03	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/15/14 05:03	1
Ethanol	15		2.0	2.0	ppb v/v			03/15/14 05:03	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 05:03	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/15/14 05:03	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 05:03	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/15/14 05:03	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 05:03	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/15/14 05:03	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 05:03	1
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v			03/15/14 05:03	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/15/14 05:03	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 05:03	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 05:03	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 05:03	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 05:03	1
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v			03/15/14 05:03	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 05:03	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 05:03	1
Toluene	0.21		0.20	0.12	ppb v/v			03/15/14 05:03	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 05:03	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 05:03	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 05:03	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/15/14 05:03	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 05:03	1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 05:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 05:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/15/14 05:03	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 05:03	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 05:03	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 05:03	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 05:03	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 05:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 05:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 05:03	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 05:03	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 05:03	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 05:03	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 05:03	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 05:03	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 05:03	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 05:03	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 05:03	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/15/14 05:03	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 05:03	1
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3			03/15/14 05:03	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 05:03	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/15/14 05:03	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 05:03	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 05:03	1
4-Methyl-2-pentanone (MIBK)	0.28	J	2.0	0.18	ug/m3			03/15/14 05:03	1
Acetone	13		12	3.3	ug/m3			03/15/14 05:03	1
Benzene	0.53	J	0.64	0.18	ug/m3			03/15/14 05:03	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 05:03	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 05:03	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 05:03	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 05:03	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 05:03	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/15/14 05:03	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 05:03	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 05:03	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 05:03	1
Chloromethane	0.97	J	1.0	0.33	ug/m3			03/15/14 05:03	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 05:03	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 05:03	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 05:03	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 05:03	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/15/14 05:03	1
Ethanol	29		3.8	3.8	ug/m3			03/15/14 05:03	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 05:03	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/15/14 05:03	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 05:03	1
Hexane	0.39	J	1.8	0.11	ug/m3			03/15/14 05:03	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 05:03	1

Client Sample ID: PCV-AMB4
Date Collected: 03/11/14 16:39
Date Received: 03/12/14 09:59
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1041-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/15/14 05:03	1
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3			03/15/14 05:03	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 05:03	1
Methylene Chloride	1.2	J	1.7	0.45	ug/m3			03/15/14 05:03	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/15/14 05:03	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 05:03	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 05:03	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 05:03	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 05:03	1
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3			03/15/14 05:03	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 05:03	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 05:03	1
Toluene	0.77		0.75	0.45	ug/m3			03/15/14 05:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 05:03	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 05:03	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 05:03	1
Trichlorofluoromethane	1.7	J	1.1	0.13	ug/m3			03/15/14 05:03	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 05:03*	*1*

Client Sample ID: PCV-IA1-B12
Date Collected: 03/12/14 14:24
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 00:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.067	J	0.20	0.031	ppb v/v			03/18/14 00:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 00:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 00:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 00:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 00:00	1
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v			03/18/14 00:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 00:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 00:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 00:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 00:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 00:00	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:00	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 00:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:00	1
1,4-Dichlorobenzene	0.13	J	0.20	0.064	ppb v/v			03/18/14 00:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 00:00	1
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v			03/18/14 00:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v			03/18/14 00:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 00:00	1
2-Methylbutane	1.6		0.50	0.031	ppb v/v			03/18/14 00:00	1
2-Methylpentane	0.30		0.20	0.20	ppb v/v			03/18/14 00:00	1
4-Ethyltoluene	0.091	J	0.40	0.066	ppb v/v			03/18/14 00:00	1
4-Methyl-2-pentanone (MIBK)	0.096	J	0.50	0.045	ppb v/v			03/18/14 00:00	1
Acetone	11		5.0	1.4	ppb v/v			03/18/14 00:00	1
Benzene	0.41		0.20	0.056	ppb v/v			03/18/14 00:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 00:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 00:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 00:00	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 00:00	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 00:00	1
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/18/14 00:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 00:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 00:00	1
Chloroform	0.082	J	0.20	0.038	ppb v/v			03/18/14 00:00	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/18/14 00:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 00:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 00:00	1
Cyclohexane	0.16	J	0.50	0.040	ppb v/v			03/18/14 00:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 00:00	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/18/14 00:00	1
Ethanol	71		2.0	2.0	ppb v/v			03/18/14 00:00	1
Ethylbenzene	0.17	J	0.20	0.068	ppb v/v			03/18/14 00:00	1
Heptane	0.27	J	0.50	0.047	ppb v/v			03/18/14 00:00	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 00:00	1

Client Sample ID: PCV-IA1-B12
Date Collected: 03/12/14 14:24
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.36	J	0.50	0.032	ppb v/v			03/18/14 00:00	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 00:00	1
Isopropyl alcohol	30		2.0	0.094	ppb v/v			03/18/14 00:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 00:00	1
Methylene Chloride	0.55		0.50	0.13	ppb v/v			03/18/14 00:00	1
m-Xylene & p-Xylene	0.70		0.20	0.12	ppb v/v			03/18/14 00:00	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 00:00	1
o-Xylene	0.27		0.20	0.061	ppb v/v			03/18/14 00:00	1
Propene	2.6	~~cn~~ J	0.50	0.077	ppb v/v			03/18/14 00:00	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 00:00	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/18/14 00:00	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 00:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 00:00	1
Toluene	1.2		0.20	0.12	ppb v/v			03/18/14 00:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 00:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 00:00	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 00:00	1
Trichlorofluoromethane	0.24	J	0.20	0.024	ppb v/v			03/18/14 00:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 00:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 00:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/18/14 00:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 00:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 00:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 00:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 00:00	1
1,2,4-Trimethylbenzene	0.73	J	0.98	0.31	ug/m3			03/18/14 00:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 00:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 00:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 00:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 00:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 00:00	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 00:00	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 00:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 00:00	1
1,4-Dichlorobenzene	0.77	J	1.2	0.38	ug/m3			03/18/14 00:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 00:00	1
2,2,4-Trimethylpentane	0.64	J	2.3	0.18	ug/m3			03/18/14 00:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 00:00	1
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3			03/18/14 00:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 00:00	1
2-Methylbutane	4.8		1.5	0.091	ug/m3			03/18/14 00:00	1
2-Methylpentane	1.1		0.70	0.70	ug/m3			03/18/14 00:00	1
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3			03/18/14 00:00	1
4-Methyl-2-pentanone (MIBK)	0.39	J	2.0	0.18	ug/m3			03/18/14 00:00	1

Client Sample ID: PCV-IA1-B12
Date Collected: 03/12/14 14:24
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		12	3.3	ug/m3			03/18/14 00:00	1
Benzene	1.3		0.64	0.18	ug/m3			03/18/14 00:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 00:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 00:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 00:00	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 00:00	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 00:00	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/18/14 00:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 00:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 00:00	1
Chloroform	0.40	J	0.98	0.19	ug/m3			03/18/14 00:00	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 00:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 00:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 00:00	1
Cyclohexane	0.54	J	1.7	0.14	ug/m3			03/18/14 00:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 00:00	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 00:00	1
Ethanol	130		3.8	3.8	ug/m3			03/18/14 00:00	1
Ethylbenzene	0.75	J	0.87	0.30	ug/m3			03/18/14 00:00	1
Heptane	1.1	J	2.0	0.19	ug/m3			03/18/14 00:00	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 00:00	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/18/14 00:00	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 00:00	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 00:00	1
Isopropyl alcohol	73		4.9	0.23	ug/m3			03/18/14 00:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 00:00	1
Methylene Chloride	1.9		1.7	0.45	ug/m3			03/18/14 00:00	1
m-Xylene & p-Xylene	3.0		0.87	0.52	ug/m3			03/18/14 00:00	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 00:00	1
o-Xylene	1.2		0.87	0.26	ug/m3			03/18/14 00:00	1
Propene	4.4	~~or~~ J	0.86	0.13	ug/m3			03/18/14 00:00	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 00:00	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/18/14 00:00	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 00:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 00:00	1
Toluene	4.5		0.75	0.45	ug/m3			03/18/14 00:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 00:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 00:00	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 00:00	1
Trichlorofluoromethane	1.4	J	1.1	0.13	ug/m3			03/18/14 00:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/18/14 00:00*	*1*

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 00:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.078	J	0.20	0.031	ppb v/v			03/18/14 00:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 00:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 00:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 00:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 00:45	1
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v			03/18/14 00:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 00:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 00:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 00:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 00:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 00:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 00:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 00:45	1
1,4-Dichlorobenzene	0.13	J	0.20	0.064	ppb v/v			03/18/14 00:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 00:45	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/18/14 00:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
2-Butanone (MEK)	1.4	J	1.0	0.20	ppb v/v			03/18/14 00:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 00:45	1
2-Methylbutane	3.6		0.50	0.031	ppb v/v			03/18/14 00:45	1
2-Methylpentane	0.37		0.20	0.20	ppb v/v			03/18/14 00:45	1
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/18/14 00:45	1
4-Methyl-2-pentanone (MIBK)	1.5		0.50	0.045	ppb v/v			03/18/14 00:45	1
Acetone	10		5.0	1.4	ppb v/v			03/18/14 00:45	1
Benzene	0.44		0.20	0.056	ppb v/v			03/18/14 00:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 00:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 00:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 00:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 00:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 00:45	1
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/18/14 00:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 00:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 00:45	1
Chloroform	0.075	J	0.20	0.038	ppb v/v			03/18/14 00:45	1
Chloromethane	0.68		0.50	0.16	ppb v/v			03/18/14 00:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 00:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 00:45	1
Cyclohexane	0.14	J	0.50	0.040	ppb v/v			03/18/14 00:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 00:45	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/18/14 00:45	1
~~Ethanol~~	~~230~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/18/14 00:45~~	~~1~~
Ethylbenzene	0.20		0.20	0.068	ppb v/v			03/18/14 00:45	1
Heptane	0.50		0.50	0.047	ppb v/v			03/18/14 00:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 00:45	1
Hexane	0.37	J	0.50	0.032	ppb v/v			03/18/14 00:45	1

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 00:45	1
Isopropyl alcohol	6.8		2.0	0.094	ppb v/v			03/18/14 00:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 00:45	1
Methylene Chloride	0.70		0.50	0.13	ppb v/v			03/18/14 00:45	1
m-Xylene & p-Xylene	0.89		0.20	0.12	ppb v/v			03/18/14 00:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 00:45	1
o-Xylene	0.34		0.20	0.061	ppb v/v			03/18/14 00:45	1
Propene	2.2	~~on~~ J	0.50	0.077	ppb v/v			03/18/14 00:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 00:45	1
Tetrachloroethene	0.17	J	0.20	0.040	ppb v/v			03/18/14 00:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 00:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 00:45	1
Toluene	5.5		0.20	0.12	ppb v/v			03/18/14 00:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 00:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 00:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 00:45	1
Trichlorofluoromethane	0.26	J	0.20	0.024	ppb v/v			03/18/14 00:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 00:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 00:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 00:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	J	1.5	0.24	ug/m3			03/18/14 00:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 00:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 00:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 00:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 00:45	1
1,2,4-Trimethylbenzene	0.68	J	0.98	0.31	ug/m3			03/18/14 00:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 00:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 00:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 00:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 00:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 00:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 00:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 00:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 00:45	1
1,4-Dichlorobenzene	0.75	J	1.2	0.38	ug/m3			03/18/14 00:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 00:45	1
2,2,4-Trimethylpentane	0.69	J	2.3	0.18	ug/m3			03/18/14 00:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 00:45	1
2-Butanone (MEK)	4.2	J	2.9	0.59	ug/m3			03/18/14 00:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 00:45	1
2-Methylbutane	10		1.5	0.091	ug/m3			03/18/14 00:45	1
2-Methylpentane	1.3		0.70	0.70	ug/m3			03/18/14 00:45	1
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/18/14 00:45	1
4-Methyl-2-pentanone (MIBK)	6.1		2.0	0.18	ug/m3			03/18/14 00:45	1
Acetone	25		12	3.3	ug/m3			03/18/14 00:45	1

Client Sample ID: PCV-IA2-B12
Date Collected: 03/12/14 13:50
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		0.64	0.18	ug/m3			03/18/14 00:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 00:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 00:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 00:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 00:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 00:45	1
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/18/14 00:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 00:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 00:45	1
Chloroform	0.37	J	0.98	0.19	ug/m3			03/18/14 00:45	1
Chloromethane	1.4		1.0	0.33	ug/m3			03/18/14 00:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 00:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 00:45	1
Cyclohexane	0.50	J	1.7	0.14	ug/m3			03/18/14 00:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 00:45	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 00:45	1
~~Ethanol~~	~~440~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/18/14 00:45~~	~~1~~
Ethylbenzene	0.85		0.87	0.30	ug/m3			03/18/14 00:45	1
Heptane	2.0		2.0	0.19	ug/m3			03/18/14 00:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 00:45	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/18/14 00:45	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 00:45	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 00:45	1
Isopropyl alcohol	17		4.9	0.23	ug/m3			03/18/14 00:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 00:45	1
Methylene Chloride	2.4		1.7	0.45	ug/m3			03/18/14 00:45	1
m-Xylene & p-Xylene	3.9		0.87	0.52	ug/m3			03/18/14 00:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 00:45	1
o-Xylene	1.5		0.87	0.26	ug/m3			03/18/14 00:45	1
Propene	3.8	~~cn~~ J	0.86	0.13	ug/m3			03/18/14 00:45	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 00:45	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/18/14 00:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 00:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 00:45	1
Toluene	21		0.75	0.45	ug/m3			03/18/14 00:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 00:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 00:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 00:45	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/18/14 00:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 00:45*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	290		4.0	4.0	ppb v/v			03/18/14 08:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	550		7.5	7.5	ug/m3			03/18/14 08:20	1

Client Sample ID: PCV-IA2-B12 — **Lab Sample ID: 140-1051-2**
Date Collected: 03/12/14 13:50 — **Matrix: Air**
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		60 - 140		03/18/14 08:20	1

Client Sample ID: PCV-IA3-B12 — **Lab Sample ID: 140-1051-3**
Date Collected: 03/12/14 15:19 — **Matrix: Air**
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 01:30	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/18/14 01:30	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 01:30	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 01:30	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 01:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 01:30	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/18/14 01:30	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 01:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 01:30	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 01:30	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 01:30	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 01:30	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 01:30	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 01:30	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 01:30	1
1,4-Dichlorobenzene	0.086	J	0.20	0.064	ppb v/v			03/18/14 01:30	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 01:30	1
2,2,4-Trimethylpentane	0.11	J	0.50	0.039	ppb v/v			03/18/14 01:30	1
2,3-Dimethylpentane	0.23		0.20	0.20	ppb v/v			03/18/14 01:30	1
2-Butanone (MEK)	0.57	J	1.0	0.20	ppb v/v			03/18/14 01:30	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 01:30	1
2-Methylbutane	2.1		0.50	0.031	ppb v/v			03/18/14 01:30	1
2-Methylpentane	0.25		0.20	0.20	ppb v/v			03/18/14 01:30	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 01:30	1
4-Methyl-2-pentanone (MIBK)	0.25	J	0.50	0.045	ppb v/v			03/18/14 01:30	1
Acetone	5.5		5.0	1.4	ppb v/v			03/18/14 01:30	1
Benzene	0.34		0.20	0.056	ppb v/v			03/18/14 01:30	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 01:30	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 01:30	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 01:30	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 01:30	1
Carbon disulfide	0.034	J	0.50	0.031	ppb v/v			03/18/14 01:30	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/18/14 01:30	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 01:30	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 01:30	1
Chloroform	0.063	J	0.20	0.038	ppb v/v			03/18/14 01:30	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/18/14 01:30	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12
Date Collected: 03/12/14 15:19
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 01:30	1
Cyclohexane	0.13	J	0.50	0.040	ppb v/v			03/18/14 01:30	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 01:30	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/18/14 01:30	1
Ethanol	94		2.0	2.0	ppb v/v			03/18/14 01:30	1
Ethylbenzene	0.12	J	0.20	0.068	ppb v/v			03/18/14 01:30	1
Heptane	0.25	J	0.50	0.047	ppb v/v			03/18/14 01:30	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 01:30	1
Hexane	0.26	J	0.50	0.032	ppb v/v			03/18/14 01:30	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 01:30	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 01:30	1
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v			03/18/14 01:30	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 01:30	1
Methylene Chloride	0.61		0.50	0.13	ppb v/v			03/18/14 01:30	1
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v			03/18/14 01:30	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 01:30	1
o-Xylene	0.18	J	0.20	0.061	ppb v/v			03/18/14 01:30	1
Propene	1.7 ~~on~~ J		0.50	0.077	ppb v/v			03/18/14 01:30	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 01:30	1
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v			03/18/14 01:30	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 01:30	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 01:30	1
Toluene	2.3		0.20	0.12	ppb v/v			03/18/14 01:30	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 01:30	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 01:30	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 01:30	1
Trichlorofluoromethane	0.27 J		0.20	0.024	ppb v/v			03/18/14 01:30	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 01:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 01:30	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/18/14 01:30	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 01:30	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 01:30	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 01:30	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 01:30	1
1,2,4-Trimethylbenzene	0.52	J	0.98	0.31	ug/m3			03/18/14 01:30	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 01:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 01:30	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 01:30	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 01:30	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 01:30	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 01:30	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 01:30	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 01:30	1
1,4-Dichlorobenzene	0.52	J	1.2	0.38	ug/m3			03/18/14 01:30	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12
Date Collected: 03/12/14 15:19
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.53	J	2.3	0.18	ug/m3			03/18/14 01:30	1
2,3-Dimethylpentane	0.93		0.82	0.82	ug/m3			03/18/14 01:30	1
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3			03/18/14 01:30	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 01:30	1
2-Methylbutane	6.1		1.5	0.091	ug/m3			03/18/14 01:30	1
2-Methylpentane	0.89		0.70	0.70	ug/m3			03/18/14 01:30	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 01:30	1
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3			03/18/14 01:30	1
Acetone	13		12	3.3	ug/m3			03/18/14 01:30	1
Benzene	1.1		0.64	0.18	ug/m3			03/18/14 01:30	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 01:30	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 01:30	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 01:30	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 01:30	1
Carbon disulfide	0.10	J	1.6	0.097	ug/m3			03/18/14 01:30	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/18/14 01:30	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 01:30	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 01:30	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/18/14 01:30	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 01:30	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 01:30	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 01:30	1
Cyclohexane	0.44	J	1.7	0.14	ug/m3			03/18/14 01:30	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 01:30	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/18/14 01:30	1
Ethanol	180		3.8	3.8	ug/m3			03/18/14 01:30	1
Ethylbenzene	0.51	J	0.87	0.30	ug/m3			03/18/14 01:30	1
Heptane	1.0	J	2.0	0.19	ug/m3			03/18/14 01:30	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 01:30	1
Hexane	0.91	J	1.8	0.11	ug/m3			03/18/14 01:30	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 01:30	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 01:30	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/18/14 01:30	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 01:30	1
Methylene Chloride	2.1		1.7	0.45	ug/m3			03/18/14 01:30	1
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3			03/18/14 01:30	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 01:30	1
o-Xylene	0.76	J	0.87	0.26	ug/m3			03/18/14 01:30	1
Propene	3.0	~~on~~ J	0.86	0.13	ug/m3			03/18/14 01:30	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 01:30	1
Tetrachloroethene	0.92	J	1.4	0.27	ug/m3			03/18/14 01:30	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 01:30	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 01:30	1
Toluene	8.8		0.75	0.45	ug/m3			03/18/14 01:30	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 01:30	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 01:30	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 01:30	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/18/14 01:30	1

Client Sample ID: PCV-IA3-B12 — **Lab Sample ID: 140-1051-3**

Date Collected: 03/12/14 15:19 — **Matrix: Air**

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 01:30*	*1*

Client Sample ID: PCV-AMB-5 — **Lab Sample ID: 140-1051-4**

Date Collected: 03/12/14 14:55 — **Matrix: Air**

Date Received: 03/13/14 10:25

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 02:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.063	J	0.20	0.031	ppb v/v			03/18/14 02:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 02:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 02:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 02:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 02:15	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 02:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 02:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 02:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 02:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 02:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 02:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 02:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 02:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 02:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 02:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 02:15	1
2,2,4-Trimethylpentane	0.090	J	0.50	0.039	ppb v/v			03/18/14 02:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
2-Butanone (MEK)	0.32	J	1.0	0.20	ppb v/v			03/18/14 02:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 02:15	1
2-Methylbutane	1.1		0.50	0.031	ppb v/v			03/18/14 02:15	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 02:15	1
4-Methyl-2-pentanone (MIBK)	0.054	J	0.50	0.045	ppb v/v			03/18/14 02:15	1
Acetone	3.0	J	5.0	1.4	ppb v/v			03/18/14 02:15	1
Benzene	0.27		0.20	0.056	ppb v/v			03/18/14 02:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 02:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 02:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 02:15	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 02:15	1
Carbon disulfide	0.049	J	0.50	0.031	ppb v/v			03/18/14 02:15	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/18/14 02:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 02:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 02:15	1

Client Sample ID: PCV-AMB-5
Date Collected: 03/12/14 14:55
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 02:15	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			03/18/14 02:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 02:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 02:15	1
Cyclohexane	0.062	J	0.50	0.040	ppb v/v			03/18/14 02:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 02:15	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/18/14 02:15	1
Ethanol	15		2.0	2.0	ppb v/v			03/18/14 02:15	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 02:15	1
Heptane	0.095	J	0.50	0.047	ppb v/v			03/18/14 02:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 02:15	1
Hexane	0.20	J	0.50	0.032	ppb v/v			03/18/14 02:15	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 02:15	1
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v			03/18/14 02:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 02:15	1
Methylene Chloride	0.63		0.50	0.13	ppb v/v			03/18/14 02:15	1
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v			03/18/14 02:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 02:15	1
o-Xylene	0.075	J	0.20	0.061	ppb v/v			03/18/14 02:15	1
Propene	1.2	~~or~~ J	0.50	0.077	ppb v/v			03/18/14 02:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 02:15	1
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v			03/18/14 02:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 02:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 02:15	1
Toluene	0.61		0.20	0.12	ppb v/v			03/18/14 02:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 02:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 02:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 02:15	1
Trichlorofluoromethane	0.25	J	0.20	0.024	ppb v/v			03/18/14 02:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 02:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 02:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	J	1.5	0.24	ug/m3			03/18/14 02:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 02:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 02:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 02:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 02:15	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 02:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 02:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 02:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 02:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 02:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 02:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 02:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 02:15	1

Client Sample ID: PCV-AMB-5
Date Collected: 03/12/14 14:55
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 02:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 02:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 02:15	1
2,2,4-Trimethylpentane	0.42	J	2.3	0.18	ug/m3			03/18/14 02:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 02:15	1
2-Butanone (MEK)	0.94	J	2.9	0.59	ug/m3			03/18/14 02:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 02:15	1
2-Methylbutane	3.2		1.5	0.091	ug/m3			03/18/14 02:15	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 02:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 02:15	1
4-Methyl-2-pentanone (MIBK)	0.22	J	2.0	0.18	ug/m3			03/18/14 02:15	1
Acetone	7.1	J	12	3.3	ug/m3			03/18/14 02:15	1
Benzene	0.86		0.64	0.18	ug/m3			03/18/14 02:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 02:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 02:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 02:15	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 02:15	1
Carbon disulfide	0.15	J	1.6	0.097	ug/m3			03/18/14 02:15	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/18/14 02:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 02:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 02:15	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 02:15	1
Chloromethane	0.98	J	1.0	0.33	ug/m3			03/18/14 02:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 02:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 02:15	1
Cyclohexane	0.21	J	1.7	0.14	ug/m3			03/18/14 02:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 02:15	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/18/14 02:15	1
Ethanol	28		3.8	3.8	ug/m3			03/18/14 02:15	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 02:15	1
Heptane	0.39	J	2.0	0.19	ug/m3			03/18/14 02:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 02:15	1
Hexane	0.70	J	1.8	0.11	ug/m3			03/18/14 02:15	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 02:15	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 02:15	1
Isopropyl alcohol	2.8	J	4.9	0.23	ug/m3			03/18/14 02:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 02:15	1
Methylene Chloride	2.2		1.7	0.45	ug/m3			03/18/14 02:15	1
m-Xylene & p-Xylene	0.98		0.87	0.52	ug/m3			03/18/14 02:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 02:15	1
o-Xylene	0.33	J	0.87	0.26	ug/m3			03/18/14 02:15	1
Propene	2.1	~~cn~~ J	0.86	0.13	ug/m3			03/18/14 02:15	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 02:15	1
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3			03/18/14 02:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 02:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 02:15	1
Toluene	2.3		0.75	0.45	ug/m3			03/18/14 02:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 02:15	1

Client Sample ID: PCV-AMB-5

Lab Sample ID: 140-1051-4

Date Collected: 03/12/14 14:55
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 02:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 02:15	1
Trichlorofluoromethane	1.4	J	1.1	0.13	ug/m3			03/18/14 02:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 02:15*	*1*

Client Sample ID: PCV-AMB-6

Lab Sample ID: 140-1051-5

Date Collected: 03/12/14 15:02
Matrix: Air
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 03:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/18/14 03:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 03:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 03:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 03:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 03:01	1
1,2,4-Trimethylbenzene	0.063	J	0.20	0.063	ppb v/v			03/18/14 03:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 03:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 03:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 03:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 03:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 03:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 03:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:01	1
1,4-Dichlorobenzene	0.085	J	0.20	0.064	ppb v/v			03/18/14 03:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 03:01	1
2,2,4-Trimethylpentane	0.11	J	0.50	0.039	ppb v/v			03/18/14 03:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
2-Butanone (MEK)	0.32	J	1.0	0.20	ppb v/v			03/18/14 03:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 03:01	1
2-Methylbutane	2.1		0.50	0.031	ppb v/v			03/18/14 03:01	1
2-Methylpentane	0.28		0.20	0.20	ppb v/v			03/18/14 03:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 03:01	1
4-Methyl-2-pentanone (MIBK)	2.9		0.50	0.045	ppb v/v			03/18/14 03:01	1
Acetone	3.6	J	5.0	1.4	ppb v/v			03/18/14 03:01	1
Benzene	0.32		0.20	0.056	ppb v/v			03/18/14 03:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 03:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 03:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 03:01	1
Bromomethane	0.059	J	0.20	0.032	ppb v/v			03/18/14 03:01	1
Carbon disulfide	0.15	J	0.50	0.031	ppb v/v			03/18/14 03:01	1

Client Sample ID: PCV-AMB-6
Date Collected: 03/12/14 15:02
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/18/14 03:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 03:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 03:01	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 03:01	1
Chloromethane	0.66		0.50	0.16	ppb v/v			03/18/14 03:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 03:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 03:01	1
Cyclohexane	0.078	J	0.50	0.040	ppb v/v			03/18/14 03:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 03:01	1
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v			03/18/14 03:01	1
Ethanol	16		2.0	2.0	ppb v/v			03/18/14 03:01	1
Ethylbenzene	0.087	J	0.20	0.068	ppb v/v			03/18/14 03:01	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/18/14 03:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 03:01	1
Hexane	0.69		0.50	0.032	ppb v/v			03/18/14 03:01	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 03:01	1
Isopropyl alcohol	1.1	J	2.0	0.094	ppb v/v			03/18/14 03:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 03:01	1
Methylene Chloride	4.3		0.50	0.13	ppb v/v			03/18/14 03:01	1
m-Xylene & p-Xylene	0.31		0.20	0.12	ppb v/v			03/18/14 03:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 03:01	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/18/14 03:01	1
Propene	1.3	~~on~~ J	0.50	0.077	ppb v/v			03/18/14 03:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 03:01	1
Tetrachloroethene	0.10	J	0.20	0.040	ppb v/v			03/18/14 03:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 03:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 03:01	1
Toluene	1.1		0.20	0.12	ppb v/v			03/18/14 03:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 03:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 03:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 03:01	1
Trichlorofluoromethane	0.37	J	0.20	0.024	ppb v/v			03/18/14 03:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 03:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 03:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/18/14 03:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 03:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 03:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 03:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 03:01	1
1,2,4-Trimethylbenzene	0.31	J	0.98	0.31	ug/m3			03/18/14 03:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 03:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 03:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 03:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 03:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-6
Date Collected: 03/12/14 15:02
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 03:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 03:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 03:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 03:01	1
1,4-Dichlorobenzene	0.51	J	1.2	0.38	ug/m3			03/18/14 03:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 03:01	1
2,2,4-Trimethylpentane	0.53	J	2.3	0.18	ug/m3			03/18/14 03:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 03:01	1
2-Butanone (MEK)	0.94	J	2.9	0.59	ug/m3			03/18/14 03:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 03:01	1
2-Methylbutane	6.2		1.5	0.091	ug/m3			03/18/14 03:01	1
2-Methylpentane	1.0		0.70	0.70	ug/m3			03/18/14 03:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 03:01	1
4-Methyl-2-pentanone (MIBK)	12		2.0	0.18	ug/m3			03/18/14 03:01	1
Acetone	8.5	J	12	3.3	ug/m3			03/18/14 03:01	1
Benzene	1.0		0.64	0.18	ug/m3			03/18/14 03:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 03:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 03:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 03:01	1
Bromomethane	0.23	J	0.78	0.12	ug/m3			03/18/14 03:01	1
Carbon disulfide	0.46	J	1.6	0.097	ug/m3			03/18/14 03:01	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/18/14 03:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 03:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 03:01	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 03:01	1
Chloromethane	1.4		1.0	0.33	ug/m3			03/18/14 03:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 03:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 03:01	1
Cyclohexane	0.27	J	1.7	0.14	ug/m3			03/18/14 03:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 03:01	1
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3			03/18/14 03:01	1
Ethanol	29		3.8	3.8	ug/m3			03/18/14 03:01	1
Ethylbenzene	0.38	J	0.87	0.30	ug/m3			03/18/14 03:01	1
Heptane	0.43	J	2.0	0.19	ug/m3			03/18/14 03:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 03:01	1
Hexane	2.4		1.8	0.11	ug/m3			03/18/14 03:01	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 03:01	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 03:01	1
Isopropyl alcohol	2.6	J	4.9	0.23	ug/m3			03/18/14 03:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 03:01	1
Methylene Chloride	15		1.7	0.45	ug/m3			03/18/14 03:01	1
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3			03/18/14 03:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 03:01	1
o-Xylene	0.45	J	0.87	0.26	ug/m3			03/18/14 03:01	1
Propene	2.2	~~en~~ J	0.86	0.13	ug/m3			03/18/14 03:01	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 03:01	1
Tetrachloroethene	0.69	J	1.4	0.27	ug/m3			03/18/14 03:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 03:01	1

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Client Sample ID: PCV-AMB-6
Date Collected: 03/12/14 15:02
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1051-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 03:01	1
Toluene	4.1		0.75	0.45	ug/m3			03/18/14 03:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 03:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 03:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 03:01	1
Trichlorofluoromethane	2.1	J	1.1	0.13	ug/m3			03/18/14 03:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/18/14 03:01*	*1*

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 05:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 05:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/15/14 05:49	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 05:49	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 05:49	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 05:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 05:49	1
1,2,4-Trimethylbenzene	0.072	J	0.20	0.063	ppb v/v			03/15/14 05:49	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 05:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 05:49	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 05:49	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 05:49	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 05:49	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:49	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 05:49	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 05:49	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 05:49	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 05:49	1
2,2,4-Trimethylpentane	0.057	J	0.50	0.039	ppb v/v			03/15/14 05:49	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
2-Butanone (MEK)	0.40	J	1.0	0.20	ppb v/v			03/15/14 05:49	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 05:49	1
2-Methylbutane	1.9		0.50	0.031	ppb v/v			03/15/14 05:49	1
2-Methylpentane	0.39		0.20	0.20	ppb v/v			03/15/14 05:49	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 05:49	1
4-Methyl-2-pentanone (MIBK)	0.091	J	0.50	0.045	ppb v/v			03/15/14 05:49	1
Acetone	8.6		5.0	1.4	ppb v/v			03/15/14 05:49	1
Benzene	0.29		0.20	0.056	ppb v/v			03/15/14 05:49	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 05:49	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 05:49	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 05:49	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 05:49	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 05:49	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/15/14 05:49	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 05:49	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 05:49	1
Chloroform	0.047	J	0.20	0.038	ppb v/v			03/15/14 05:49	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/15/14 05:49	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 05:49	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 05:49	1
Cyclohexane	0.060	J	0.50	0.040	ppb v/v			03/15/14 05:49	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 05:49	1
Dichlorodifluoromethane	0.55		0.20	0.068	ppb v/v			03/15/14 05:49	1
Ethanol	34		2.0	2.0	ppb v/v			03/15/14 05:49	1
Ethylbenzene	0.076	J	0.20	0.068	ppb v/v			03/15/14 05:49	1
Heptane	0.083	J	0.50	0.047	ppb v/v			03/15/14 05:49	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 05:49	1

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	2.8		0.50	0.032	ppb v/v			03/15/14 05:49	1
Indane	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 05:49	1
Isopropyl alcohol	8.1		2.0	0.094	ppb v/v			03/15/14 05:49	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 05:49	1
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v			03/15/14 05:49	1
m-Xylene & p-Xylene	0.27		0.20	0.12	ppb v/v			03/15/14 05:49	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 05:49	1
o-Xylene	0.11	J	0.20	0.061	ppb v/v			03/15/14 05:49	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 05:49	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 05:49	1
Tetrachloroethene	0.041	J	0.20	0.040	ppb v/v			03/15/14 05:49	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 05:49	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 05:49	1
Toluene	0.35		0.20	0.12	ppb v/v			03/15/14 05:49	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 05:49	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 05:49	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 05:49	1
Trichlorofluoromethane	0.32	J	0.20	0.024	ppb v/v			03/15/14 05:49	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 05:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 05:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 05:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/15/14 05:49	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 05:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 05:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 05:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 05:49	1
1,2,4-Trimethylbenzene	0.35	J	0.98	0.31	ug/m3			03/15/14 05:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 05:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 05:49	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 05:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 05:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 05:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 05:49	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 05:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 05:49	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 05:49	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 05:49	1
2,2,4-Trimethylpentane	0.27	J	2.3	0.18	ug/m3			03/15/14 05:49	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 05:49	1
2-Butanone (MEK)	1.2	J	2.9	0.59	ug/m3			03/15/14 05:49	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 05:49	1
2-Methylbutane	5.6		1.5	0.091	ug/m3			03/15/14 05:49	1
2-Methylpentane	1.4		0.70	0.70	ug/m3			03/15/14 05:49	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 05:49	1
4-Methyl-2-pentanone (MIBK)	0.37	J	2.0	0.18	ug/m3			03/15/14 05:49	1

Client Sample ID: PCV-IA3-B21
Date Collected: 03/10/14 16:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		12	3.3	ug/m3			03/15/14 05:49	1
Benzene	0.92		0.64	0.18	ug/m3			03/15/14 05:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 05:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 05:49	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 05:49	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 05:49	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 05:49	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/15/14 05:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 05:49	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 05:49	1
Chloroform	0.23	J	0.98	0.19	ug/m3			03/15/14 05:49	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/15/14 05:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 05:49	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 05:49	1
Cyclohexane	0.21	J	1.7	0.14	ug/m3			03/15/14 05:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 05:49	1
Dichlorodifluoromethane	2.7		0.99	0.34	ug/m3			03/15/14 05:49	1
Ethanol	64		3.8	3.8	ug/m3			03/15/14 05:49	1
Ethylbenzene	0.33	J	0.87	0.30	ug/m3			03/15/14 05:49	1
Heptane	0.34	J	2.0	0.19	ug/m3			03/15/14 05:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 05:49	1
Hexane	9.8		1.8	0.11	ug/m3			03/15/14 05:49	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 05:49	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 05:49	1
Isopropyl alcohol	20		4.9	0.23	ug/m3			03/15/14 05:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 05:49	1
Methylene Chloride	1.7	J	1.7	0.45	ug/m3			03/15/14 05:49	1
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3			03/15/14 05:49	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 05:49	1
o-Xylene	0.49	J	0.87	0.26	ug/m3			03/15/14 05:49	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 05:49	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 05:49	1
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3			03/15/14 05:49	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 05:49	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 05:49	1
Toluene	1.3		0.75	0.45	ug/m3			03/15/14 05:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 05:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 05:49	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 05:49	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/15/14 05:49	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*60 - 140*		*03/15/14 05:49*	*1*

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 06:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/15/14 06:34	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 06:34	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 06:34	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 06:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 06:34	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 06:34	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 06:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 06:34	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 06:34	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 06:34	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 06:34	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 06:34	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 06:34	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 06:34	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 06:34	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 06:34	1
2,2,4-Trimethylpentane	0.043	J	0.50	0.039	ppb v/v			03/15/14 06:34	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v			03/15/14 06:34	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 06:34	1
2-Methylbutane	1.7		0.50	0.031	ppb v/v			03/15/14 06:34	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 06:34	1
4-Methyl-2-pentanone (MIBK)	2.4		0.50	0.045	ppb v/v			03/15/14 06:34	1
Acetone	3.6	J	5.0	1.4	ppb v/v			03/15/14 06:34	1
Benzene	0.20		0.20	0.056	ppb v/v			03/15/14 06:34	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 06:34	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 06:34	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 06:34	1
Bromomethane	0.034	J	0.20	0.032	ppb v/v			03/15/14 06:34	1
Carbon disulfide	0.086	J	0.50	0.031	ppb v/v			03/15/14 06:34	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/15/14 06:34	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 06:34	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 06:34	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 06:34	1
Chloromethane	0.53		0.50	0.16	ppb v/v			03/15/14 06:34	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 06:34	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 06:34	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 06:34	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 06:34	1
Dichlorodifluoromethane	0.59		0.20	0.068	ppb v/v			03/15/14 06:34	1
Ethanol	21		2.0	2.0	ppb v/v			03/15/14 06:34	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 06:34	1
Heptane	0.049	J	0.50	0.047	ppb v/v			03/15/14 06:34	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 06:34	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/15/14 06:34	1

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 06:34	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/15/14 06:34	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 06:34	1
Methylene Chloride	0.62		0.50	0.13	ppb v/v			03/15/14 06:34	1
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v			03/15/14 06:34	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 06:34	1
o-Xylene	0.088	J	0.20	0.061	ppb v/v			03/15/14 06:34	1
Propene	1.3	~~cn~~ J	0.50	0.077	ppb v/v			03/15/14 06:34	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 06:34	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 06:34	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 06:34	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 06:34	1
Toluene	0.25		0.20	0.12	ppb v/v			03/15/14 06:34	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 06:34	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 06:34	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 06:34	1
Trichlorofluoromethane	0.32	J	0.20	0.024	ppb v/v			03/15/14 06:34	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 06:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 06:34	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/15/14 06:34	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 06:34	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 06:34	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 06:34	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 06:34	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 06:34	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 06:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 06:34	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 06:34	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 06:34	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 06:34	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 06:34	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 06:34	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 06:34	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 06:34	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 06:34	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/15/14 06:34	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 06:34	1
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3			03/15/14 06:34	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 06:34	1
2-Methylbutane	5.0		1.5	0.091	ug/m3			03/15/14 06:34	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 06:34	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 06:34	1
4-Methyl-2-pentanone (MIBK)	9.8		2.0	0.18	ug/m3			03/15/14 06:34	1
Acetone	8.6	J	12	3.3	ug/m3			03/15/14 06:34	1

Client Sample ID: PCV-IA2-B19
Date Collected: 03/10/14 16:28
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.65		0.64	0.18	ug/m3			03/15/14 06:34	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 06:34	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 06:34	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 06:34	1
Bromomethane	0.13	J	0.78	0.12	ug/m3			03/15/14 06:34	1
Carbon disulfide	0.27	J	1.6	0.097	ug/m3			03/15/14 06:34	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/15/14 06:34	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 06:34	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 06:34	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 06:34	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/15/14 06:34	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 06:34	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 06:34	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 06:34	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 06:34	1
Dichlorodifluoromethane	2.9		0.99	0.34	ug/m3			03/15/14 06:34	1
Ethanol	39		3.8	3.8	ug/m3			03/15/14 06:34	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 06:34	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/15/14 06:34	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 06:34	1
Hexane	0.59	J	1.8	0.11	ug/m3			03/15/14 06:34	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 06:34	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 06:34	1
Isopropyl alcohol	3.4	J	4.9	0.23	ug/m3			03/15/14 06:34	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 06:34	1
Methylene Chloride	2.2		1.7	0.45	ug/m3			03/15/14 06:34	1
m-Xylene & p-Xylene	0.99		0.87	0.52	ug/m3			03/15/14 06:34	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 06:34	1
o-Xylene	0.38	J	0.87	0.26	ug/m3			03/15/14 06:34	1
Propene	2.3	~~on~~ J	0.86	0.13	ug/m3			03/15/14 06:34	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 06:34	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 06:34	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 06:34	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 06:34	1
Toluene	0.95		0.75	0.45	ug/m3			03/15/14 06:34	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 06:34	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 06:34	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 06:34	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/15/14 06:34	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/15/14 06:34*	*1*

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 07:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 07:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/15/14 07:19	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 07:19	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 07:19	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 07:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 07:19	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 07:19	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 07:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 07:19	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 07:19	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 07:19	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 07:19	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 07:19	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 07:19	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 07:19	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 07:19	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 07:19	1
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v			03/15/14 07:19	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/15/14 07:19	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 07:19	1
2-Methylbutane	2.9		0.50	0.031	ppb v/v			03/15/14 07:19	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 07:19	1
Acetone	3.7	J	5.0	1.4	ppb v/v			03/15/14 07:19	1
Benzene	0.20		0.20	0.056	ppb v/v			03/15/14 07:19	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 07:19	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 07:19	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 07:19	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/15/14 07:19	1
Carbon disulfide	0.044	J	0.50	0.031	ppb v/v			03/15/14 07:19	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/15/14 07:19	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 07:19	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 07:19	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 07:19	1
Chloromethane	0.61		0.50	0.16	ppb v/v			03/15/14 07:19	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 07:19	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 07:19	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 07:19	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 07:19	1
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v			03/15/14 07:19	1
Ethanol	17		2.0	2.0	ppb v/v			03/15/14 07:19	1
Ethylbenzene	0.081	J	0.20	0.068	ppb v/v			03/15/14 07:19	1
Heptane	0.053	J	0.50	0.047	ppb v/v			03/15/14 07:19	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 07:19	1
Hexane	0.27	J	0.50	0.032	ppb v/v			03/15/14 07:19	1

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 07:19	1
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v			03/15/14 07:19	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 07:19	1
Methylene Chloride	0.44	J	0.50	0.13	ppb v/v			03/15/14 07:19	1
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v			03/15/14 07:19	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 07:19	1
o-Xylene	0.11	J	0.20	0.061	ppb v/v			03/15/14 07:19	1
Propene	1.5	~~or~~ J	0.50	0.077	ppb v/v			03/15/14 07:19	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 07:19	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 07:19	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 07:19	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 07:19	1
Toluene	0.24		0.20	0.12	ppb v/v			03/15/14 07:19	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 07:19	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 07:19	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 07:19	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/15/14 07:19	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 07:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 07:19	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 07:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/15/14 07:19	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 07:19	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 07:19	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 07:19	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 07:19	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 07:19	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 07:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 07:19	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 07:19	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 07:19	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 07:19	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 07:19	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 07:19	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 07:19	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 07:19	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 07:19	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/15/14 07:19	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 07:19	1
2-Butanone (MEK)	0.71	J	2.9	0.59	ug/m3			03/15/14 07:19	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 07:19	1
2-Methylbutane	8.6		1.5	0.091	ug/m3			03/15/14 07:19	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 07:19	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 07:19	1
Acetone	8.7	J	12	3.3	ug/m3			03/15/14 07:19	1

Client Sample ID: PCV-IA1-B21
Date Collected: 03/10/14 17:15
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.65		0.64	0.18	ug/m3			03/15/14 07:19	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 07:19	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 07:19	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 07:19	1
Bromomethane	ND		0.78	0.12	ug/m3			03/15/14 07:19	1
Carbon disulfide	0.14	J	1.6	0.097	ug/m3			03/15/14 07:19	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/15/14 07:19	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 07:19	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 07:19	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 07:19	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/15/14 07:19	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 07:19	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 07:19	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 07:19	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 07:19	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/15/14 07:19	1
Ethanol	31		3.8	3.8	ug/m3			03/15/14 07:19	1
Ethylbenzene	0.35	J	0.87	0.30	ug/m3			03/15/14 07:19	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/15/14 07:19	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 07:19	1
Hexane	0.95	J	1.8	0.11	ug/m3			03/15/14 07:19	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 07:19	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 07:19	1
Isopropyl alcohol	5.3		4.9	0.23	ug/m3			03/15/14 07:19	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 07:19	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/15/14 07:19	1
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3			03/15/14 07:19	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 07:19	1
o-Xylene	0.47	J	0.87	0.26	ug/m3			03/15/14 07:19	1
Propene	2.6	~~or~~ J	0.86	0.13	ug/m3			03/15/14 07:19	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 07:19	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 07:19	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 07:19	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 07:19	1
Toluene	0.89		0.75	0.45	ug/m3			03/15/14 07:19	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 07:19	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 07:19	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 07:19	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/15/14 07:19	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*03/15/14 07:19*	*1*

Client Sample ID: PCV-IA1-B19
Date Collected: 03/10/14 16:42
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/15/14 08:05	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/15/14 08:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/15/14 08:05	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/15/14 08:05	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/15/14 08:05	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/15/14 08:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/15/14 08:05	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/15/14 08:05	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/15/14 08:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/15/14 08:05	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/15/14 08:05	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/15/14 08:05	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/15/14 08:05	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/15/14 08:05	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/15/14 08:05	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/15/14 08:05	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/15/14 08:05	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/15/14 08:05	1
2,2,4-Trimethylpentane	0.044	J	0.50	0.039	ppb v/v			03/15/14 08:05	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/15/14 08:05	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/15/14 08:05	1
2-Methylbutane	0.80		0.50	0.031	ppb v/v			03/15/14 08:05	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/15/14 08:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/15/14 08:05	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/15/14 08:05	1
Benzene	0.21		0.20	0.056	ppb v/v			03/15/14 08:05	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/15/14 08:05	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/15/14 08:05	1
Bromoform	ND		0.20	0.048	ppb v/v			03/15/14 08:05	1
Bromomethane	0.040	J	0.20	0.032	ppb v/v			03/15/14 08:05	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/15/14 08:05	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/15/14 08:05	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/15/14 08:05	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/15/14 08:05	1
Chloroform	ND		0.20	0.038	ppb v/v			03/15/14 08:05	1
Chloromethane	0.53		0.50	0.16	ppb v/v			03/15/14 08:05	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/15/14 08:05	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/15/14 08:05	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/15/14 08:05	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/15/14 08:05	1
Dichlorodifluoromethane	0.53		0.20	0.068	ppb v/v			03/15/14 08:05	1
Ethanol	10		2.0	2.0	ppb v/v			03/15/14 08:05	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/15/14 08:05	1
Heptane	ND		0.50	0.047	ppb v/v			03/15/14 08:05	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/15/14 08:05	1
Hexane	0.13	J	0.50	0.032	ppb v/v			03/15/14 08:05	1

Client Sample ID: PCV-IA1-B19
Date Collected: 03/10/14 16:42
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
Indene	ND		0.40	0.40	ppb v/v			03/15/14 08:05	1
Isopropyl alcohol	1.7	J	2.0	0.094	ppb v/v			03/15/14 08:05	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/15/14 08:05	1
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v			03/15/14 08:05	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/15/14 08:05	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/15/14 08:05	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/15/14 08:05	1
Propene	ND		0.50	0.077	ppb v/v			03/15/14 08:05	1
Styrene	ND		0.20	0.058	ppb v/v			03/15/14 08:05	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/15/14 08:05	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/15/14 08:05	1
Thiophene	ND		0.20	0.20	ppb v/v			03/15/14 08:05	1
Toluene	0.20		0.20	0.12	ppb v/v			03/15/14 08:05	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/15/14 08:05	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/15/14 08:05	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/15/14 08:05	1
Trichlorofluoromethane	0.32	J	0.20	0.024	ppb v/v			03/15/14 08:05	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/15/14 08:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/15/14 08:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/15/14 08:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/15/14 08:05	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/15/14 08:05	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/15/14 08:05	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/15/14 08:05	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/15/14 08:05	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/15/14 08:05	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/15/14 08:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/15/14 08:05	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/15/14 08:05	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/15/14 08:05	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/15/14 08:05	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/15/14 08:05	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/15/14 08:05	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/15/14 08:05	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/15/14 08:05	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/15/14 08:05	1
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3			03/15/14 08:05	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/15/14 08:05	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/15/14 08:05	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/15/14 08:05	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/15/14 08:05	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/15/14 08:05	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/15/14 08:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/15/14 08:05	1
Acetone	5.5	J	12	3.3	ug/m3			03/15/14 08:05	1

Client Sample ID: PCV-IA1-B19
Date Collected: 03/10/14 16:42
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.67		0.64	0.18	ug/m3			03/15/14 08:05	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/15/14 08:05	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/15/14 08:05	1
Bromoform	ND		2.1	0.50	ug/m3			03/15/14 08:05	1
Bromomethane	0.15	J	0.78	0.12	ug/m3			03/15/14 08:05	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/15/14 08:05	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/15/14 08:05	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/15/14 08:05	1
Chloroethane	ND		0.53	0.092	ug/m3			03/15/14 08:05	1
Chloroform	ND		0.98	0.19	ug/m3			03/15/14 08:05	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/15/14 08:05	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/15/14 08:05	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/15/14 08:05	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/15/14 08:05	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/15/14 08:05	1
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3			03/15/14 08:05	1
Ethanol	20		3.8	3.8	ug/m3			03/15/14 08:05	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/15/14 08:05	1
Heptane	ND		2.0	0.19	ug/m3			03/15/14 08:05	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/15/14 08:05	1
Hexane	0.46	J	1.8	0.11	ug/m3			03/15/14 08:05	1
Indane	ND		0.97	0.97	ug/m3			03/15/14 08:05	1
Indene	ND		1.9	1.9	ug/m3			03/15/14 08:05	1
Isopropyl alcohol	4.1	J	4.9	0.23	ug/m3			03/15/14 08:05	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/15/14 08:05	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/15/14 08:05	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/15/14 08:05	1
Naphthalene	ND		2.6	0.47	ug/m3			03/15/14 08:05	1
o-Xylene	ND		0.87	0.26	ug/m3			03/15/14 08:05	1
Propene	ND		0.86	0.13	ug/m3			03/15/14 08:05	1
Styrene	ND		0.85	0.25	ug/m3			03/15/14 08:05	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/15/14 08:05	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/15/14 08:05	1
Thiophene	ND		0.69	0.69	ug/m3			03/15/14 08:05	1
Toluene	0.75		0.75	0.45	ug/m3			03/15/14 08:05	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/15/14 08:05	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/15/14 08:05	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/15/14 08:05	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/15/14 08:05	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/15/14 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*03/15/14 08:05*	*1*

Client Sample ID: PCV-IA3-B19
Date Collected: 03/10/14 16:48
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 09:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 09:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/18/14 09:06	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 09:06	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 09:06	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 09:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 09:06	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 09:06	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 09:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 09:06	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 09:06	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 09:06	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 09:06	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 09:06	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 09:06	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 09:06	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 09:06	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 09:06	1
2,2,4-Trimethylpentane	0.048	J	0.50	0.039	ppb v/v			03/18/14 09:06	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v			03/18/14 09:06	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 09:06	1
2-Methylbutane	0.94		0.50	0.031	ppb v/v			03/18/14 09:06	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 09:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/18/14 09:06	1
Acetone	3.3	J	5.0	1.4	ppb v/v			03/18/14 09:06	1
Benzene	0.24		0.20	0.056	ppb v/v			03/18/14 09:06	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 09:06	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 09:06	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 09:06	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 09:06	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 09:06	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/18/14 09:06	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 09:06	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 09:06	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 09:06	1
Chloromethane	0.72		0.50	0.16	ppb v/v			03/18/14 09:06	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 09:06	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 09:06	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 09:06	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 09:06	1
Dichlorodifluoromethane	0.55		0.20	0.068	ppb v/v			03/18/14 09:06	1
Ethanol	21		2.0	2.0	ppb v/v			03/18/14 09:06	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 09:06	1
Heptane	0.056	J	0.50	0.047	ppb v/v			03/18/14 09:06	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 09:06	1
Hexane	0.26	J	0.50	0.032	ppb v/v			03/18/14 09:06	1

Client Sample ID: PCV-IA3-B19
Date Collected: 03/10/14 16:48
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 09:06	1
Isopropyl alcohol	2.2		2.0	0.094	ppb v/v			03/18/14 09:06	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 09:06	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/18/14 09:06	1
m-Xylene & p-Xylene	0.19	J	0.20	0.12	ppb v/v			03/18/14 09:06	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 09:06	1
o-Xylene	0.070	J	0.20	0.061	ppb v/v			03/18/14 09:06	1
Propene	1.5	~~on~~ J	0.50	0.077	ppb v/v			03/18/14 09:06	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 09:06	1
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v			03/18/14 09:06	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 09:06	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 09:06	1
Toluene	0.23		0.20	0.12	ppb v/v			03/18/14 09:06	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 09:06	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 09:06	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 09:06	1
Trichlorofluoromethane	0.32	J	0.20	0.024	ppb v/v			03/18/14 09:06	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 09:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 09:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 09:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/18/14 09:06	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 09:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 09:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 09:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 09:06	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 09:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 09:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 09:06	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 09:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 09:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 09:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 09:06	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 09:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 09:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 09:06	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 09:06	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/18/14 09:06	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 09:06	1
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3			03/18/14 09:06	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 09:06	1
2-Methylbutane	2.8		1.5	0.091	ug/m3			03/18/14 09:06	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 09:06	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 09:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/18/14 09:06	1
Acetone	7.8	J	12	3.3	ug/m3			03/18/14 09:06	1

Client Sample ID: PCV-IA3-B19
Date Collected: 03/10/14 16:48
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.77		0.64	0.18	ug/m3			03/18/14 09:06	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 09:06	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 09:06	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 09:06	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 09:06	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 09:06	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/18/14 09:06	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 09:06	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 09:06	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 09:06	1
Chloromethane	1.5		1.0	0.33	ug/m3			03/18/14 09:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 09:06	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 09:06	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 09:06	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 09:06	1
Dichlorodifluoromethane	2.7		0.99	0.34	ug/m3			03/18/14 09:06	1
Ethanol	39		3.8	3.8	ug/m3			03/18/14 09:06	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 09:06	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/18/14 09:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 09:06	1
Hexane	0.92	J	1.8	0.11	ug/m3			03/18/14 09:06	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 09:06	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 09:06	1
Isopropyl alcohol	5.3		4.9	0.23	ug/m3			03/18/14 09:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 09:06	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/18/14 09:06	1
m-Xylene & p-Xylene	0.80	J	0.87	0.52	ug/m3			03/18/14 09:06	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 09:06	1
o-Xylene	0.31	J	0.87	0.26	ug/m3			03/18/14 09:06	1
Propene	2.6	~~cn~~ J	0.86	0.13	ug/m3			03/18/14 09:06	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 09:06	1
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3			03/18/14 09:06	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 09:06	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 09:06	1
Toluene	0.86		0.75	0.45	ug/m3			03/18/14 09:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 09:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 09:06	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 09:06	1
Trichlorofluoromethane	1.8	J	1.1	0.13	ug/m3			03/18/14 09:06	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*03/18/14 09:06*	*1*

Client Sample ID: PCV-IA2-B21
Date Collected: 03/10/14 17:10
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/17/14 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/17/14 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.063	J	0.20	0.031	ppb v/v			03/17/14 23:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/17/14 23:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/17/14 23:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/17/14 23:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/17/14 23:15	1
1,2,4-Trimethylbenzene	0.32		0.20	0.063	ppb v/v			03/17/14 23:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/17/14 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/17/14 23:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/17/14 23:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/17/14 23:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/17/14 23:15	1
1,3,5-Trimethylbenzene	0.072	J	0.20	0.065	ppb v/v			03/17/14 23:15	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/17/14 23:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/17/14 23:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/17/14 23:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/17/14 23:15	1
2,2,4-Trimethylpentane	0.053	J	0.50	0.039	ppb v/v			03/17/14 23:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
2-Butanone (MEK)	0.64	J	1.0	0.20	ppb v/v			03/17/14 23:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/17/14 23:15	1
2-Methylbutane	0.92		0.50	0.031	ppb v/v			03/17/14 23:15	1
2-Methylpentane	1.6		0.20	0.20	ppb v/v			03/17/14 23:15	1
4-Ethyltoluene	0.12	J	0.40	0.066	ppb v/v			03/17/14 23:15	1
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v			03/17/14 23:15	1
Acetone	19		5.0	1.4	ppb v/v			03/17/14 23:15	1
Benzene	0.25		0.20	0.056	ppb v/v			03/17/14 23:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/17/14 23:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/17/14 23:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/17/14 23:15	1
Bromomethane	0.035	J	0.20	0.032	ppb v/v			03/17/14 23:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/17/14 23:15	1
Carbon tetrachloride	0.060	J	0.20	0.038	ppb v/v			03/17/14 23:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/17/14 23:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/17/14 23:15	1
Chloroform	0.071	J	0.20	0.038	ppb v/v			03/17/14 23:15	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/17/14 23:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/17/14 23:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/17/14 23:15	1
Cyclohexane	0.095	J	0.50	0.040	ppb v/v			03/17/14 23:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/17/14 23:15	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/17/14 23:15	1
Ethanol	54		2.0	2.0	ppb v/v			03/17/14 23:15	1
Ethylbenzene	0.28		0.20	0.068	ppb v/v			03/17/14 23:15	1
Heptane	0.18	J	0.50	0.047	ppb v/v			03/17/14 23:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/17/14 23:15	1
Hexane	13		0.50	0.032	ppb v/v			03/17/14 23:15	1

Client Sample ID: PCV-IA2-B21
Date Collected: 03/10/14 17:10
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
Indene	ND		0.40	0.40	ppb v/v			03/17/14 23:15	1
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v			03/17/14 23:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/17/14 23:15	1
Methylene Chloride	0.39	J	0.50	0.13	ppb v/v			03/17/14 23:15	1
m-Xylene & p-Xylene	1.2		0.20	0.12	ppb v/v			03/17/14 23:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/17/14 23:15	1
o-Xylene	0.43		0.20	0.061	ppb v/v			03/17/14 23:15	1
Propene	7.4	~~cn.~~ J	0.50	0.077	ppb v/v			03/17/14 23:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/17/14 23:15	1
Tetrachloroethene	0.057	J	0.20	0.040	ppb v/v			03/17/14 23:15	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/17/14 23:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/17/14 23:15	1
Toluene	0.69		0.20	0.12	ppb v/v			03/17/14 23:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/17/14 23:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/17/14 23:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/17/14 23:15	1
Trichlorofluoromethane	0.23	J	0.20	0.024	ppb v/v			03/17/14 23:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/17/14 23:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/17/14 23:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/17/14 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	J	1.5	0.24	ug/m3			03/17/14 23:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/17/14 23:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/17/14 23:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/17/14 23:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/17/14 23:15	1
1,2,4-Trimethylbenzene	1.6		0.98	0.31	ug/m3			03/17/14 23:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/17/14 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/17/14 23:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/17/14 23:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/17/14 23:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/17/14 23:15	1
1,3,5-Trimethylbenzene	0.36	J	0.98	0.32	ug/m3			03/17/14 23:15	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/17/14 23:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/17/14 23:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/17/14 23:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/17/14 23:15	1
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3			03/17/14 23:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/17/14 23:15	1
2-Butanone (MEK)	1.9	J	2.9	0.59	ug/m3			03/17/14 23:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/17/14 23:15	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/17/14 23:15	1
2-Methylpentane	5.5		0.70	0.70	ug/m3			03/17/14 23:15	1
4-Ethyltoluene	0.61	J	2.0	0.32	ug/m3			03/17/14 23:15	1
4-Methyl-2-pentanone (MIBK)	0.41	J	2.0	0.18	ug/m3			03/17/14 23:15	1
Acetone	45		12	3.3	ug/m3			03/17/14 23:15	1

Client Sample ID: PCV-IA2-B21
Date Collected: 03/10/14 17:10
Date Received: 03/13/14 10:25
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1054-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.79		0.64	0.18	ug/m3			03/17/14 23:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/17/14 23:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/17/14 23:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/17/14 23:15	1
Bromomethane	0.14	J	0.78	0.12	ug/m3			03/17/14 23:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/17/14 23:15	1
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3			03/17/14 23:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/17/14 23:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/17/14 23:15	1
Chloroform	0.35	J	0.98	0.19	ug/m3			03/17/14 23:15	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/17/14 23:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/17/14 23:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/17/14 23:15	1
Cyclohexane	0.33	J	1.7	0.14	ug/m3			03/17/14 23:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/17/14 23:15	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/17/14 23:15	1
Ethanol	100		3.8	3.8	ug/m3			03/17/14 23:15	1
Ethylbenzene	1.2		0.87	0.30	ug/m3			03/17/14 23:15	1
Heptane	0.72	J	2.0	0.19	ug/m3			03/17/14 23:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/17/14 23:15	1
Hexane	45		1.8	0.11	ug/m3			03/17/14 23:15	1
Indane	ND		0.97	0.97	ug/m3			03/17/14 23:15	1
Indene	ND		1.9	1.9	ug/m3			03/17/14 23:15	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/17/14 23:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/17/14 23:15	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/17/14 23:15	1
m-Xylene & p-Xylene	5.2		0.87	0.52	ug/m3			03/17/14 23:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/17/14 23:15	1
o-Xylene	1.9		0.87	0.26	ug/m3			03/17/14 23:15	1
Propene	13	~~cn~~ J	0.86	0.13	ug/m3			03/17/14 23:15	1
Styrene	ND		0.85	0.25	ug/m3			03/17/14 23:15	1
Tetrachloroethene	0.39	J	1.4	0.27	ug/m3			03/17/14 23:15	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/17/14 23:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/17/14 23:15	1
Toluene	2.6		0.75	0.45	ug/m3			03/17/14 23:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/17/14 23:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/17/14 23:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/17/14 23:15	1
Trichlorofluoromethane	1.3	J	1.1	0.13	ug/m3			03/17/14 23:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/17/14 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/17/14 23:15*	*1*

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 03:47	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/18/14 03:47	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 03:47	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 03:47	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 03:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 03:47	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 03:47	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 03:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 03:47	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 03:47	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 03:47	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 03:47	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:47	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 03:47	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 03:47	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 03:47	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 03:47	1
2,2,4-Trimethylpentane	0.045	J	0.50	0.039	ppb v/v			03/18/14 03:47	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/18/14 03:47	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 03:47	1
2-Methylbutane	0.81		0.50	0.031	ppb v/v			03/18/14 03:47	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 03:47	1
4-Methyl-2-pentanone (MIBK)	0.22	J	0.50	0.045	ppb v/v			03/18/14 03:47	1
Acetone	2.8	J	5.0	1.4	ppb v/v			03/18/14 03:47	1
Benzene	0.22		0.20	0.056	ppb v/v			03/18/14 03:47	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 03:47	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 03:47	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 03:47	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 03:47	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 03:47	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/18/14 03:47	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 03:47	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 03:47	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 03:47	1
Chloromethane	0.65		0.50	0.16	ppb v/v			03/18/14 03:47	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 03:47	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 03:47	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 03:47	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 03:47	1
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v			03/18/14 03:47	1
Ethanol	9.5		2.0	2.0	ppb v/v			03/18/14 03:47	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 03:47	1
Heptane	0.077	J	0.50	0.047	ppb v/v			03/18/14 03:47	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 03:47	1

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.16	J	0.50	0.032	ppb v/v			03/18/14 03:47	1
Indane	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 03:47	1
Isopropyl alcohol	0.67	J	2.0	0.094	ppb v/v			03/18/14 03:47	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 03:47	1
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/18/14 03:47	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/18/14 03:47	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 03:47	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/18/14 03:47	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 03:47	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 03:47	1
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v			03/18/14 03:47	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 03:47	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 03:47	1
Toluene	0.28		0.20	0.12	ppb v/v			03/18/14 03:47	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 03:47	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 03:47	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 03:47	1
Trichlorofluoromethane	0.26	J	0.20	0.024	ppb v/v			03/18/14 03:47	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 03:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 03:47	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/18/14 03:47	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 03:47	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 03:47	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 03:47	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 03:47	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 03:47	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 03:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 03:47	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 03:47	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 03:47	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 03:47	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 03:47	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 03:47	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 03:47	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 03:47	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 03:47	1
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3			03/18/14 03:47	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 03:47	1
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3			03/18/14 03:47	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 03:47	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/18/14 03:47	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 03:47	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 03:47	1
4-Methyl-2-pentanone (MIBK)	0.88	J	2.0	0.18	ug/m3			03/18/14 03:47	1

Client Sample ID: PCV-IA1-B7
Date Collected: 03/14/14 15:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.7	J	12	3.3	ug/m3			03/18/14 03:47	1
Benzene	0.70		0.64	0.18	ug/m3			03/18/14 03:47	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 03:47	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 03:47	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 03:47	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 03:47	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 03:47	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/18/14 03:47	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 03:47	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 03:47	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 03:47	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/18/14 03:47	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 03:47	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 03:47	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 03:47	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 03:47	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 03:47	1
Ethanol	18		3.8	3.8	ug/m3			03/18/14 03:47	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 03:47	1
Heptane	0.32	J	2.0	0.19	ug/m3			03/18/14 03:47	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 03:47	1
Hexane	0.58	J	1.8	0.11	ug/m3			03/18/14 03:47	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 03:47	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 03:47	1
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3			03/18/14 03:47	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 03:47	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/18/14 03:47	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/18/14 03:47	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 03:47	1
o-Xylene	ND		0.87	0.26	ug/m3			03/18/14 03:47	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 03:47	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 03:47	1
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3			03/18/14 03:47	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 03:47	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 03:47	1
Toluene	1.1		0.75	0.45	ug/m3			03/18/14 03:47	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 03:47	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 03:47	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 03:47	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/18/14 03:47	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/18/14 03:47*	*1*

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/18/14 04:33	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 04:33	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 04:33	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 04:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 04:33	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 04:33	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 04:33	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 04:33	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 04:33	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 04:33	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 04:33	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 04:33	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 04:33	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 04:33	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/18/14 04:33	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/18/14 04:33	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 04:33	1
2-Methylbutane	0.85		0.50	0.031	ppb v/v			03/18/14 04:33	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 04:33	1
4-Methyl-2-pentanone (MIBK)	0.28	J	0.50	0.045	ppb v/v			03/18/14 04:33	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/18/14 04:33	1
Benzene	0.18	J	0.20	0.056	ppb v/v			03/18/14 04:33	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 04:33	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 04:33	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 04:33	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 04:33	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 04:33	1
Carbon tetrachloride	0.059	J	0.20	0.038	ppb v/v			03/18/14 04:33	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 04:33	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 04:33	1
Chloroform	0.063	J	0.20	0.038	ppb v/v			03/18/14 04:33	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/18/14 04:33	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 04:33	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 04:33	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 04:33	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 04:33	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/18/14 04:33	1
Ethanol	38		2.0	2.0	ppb v/v			03/18/14 04:33	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 04:33	1
Heptane	ND		0.50	0.047	ppb v/v			03/18/14 04:33	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 04:33	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/18/14 04:33	1

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 04:33	1
Isopropyl alcohol	23		2.0	0.094	ppb v/v			03/18/14 04:33	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 04:33	1
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/18/14 04:33	1
m-Xylene & p-Xylene	0.26		0.20	0.12	ppb v/v			03/18/14 04:33	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 04:33	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/18/14 04:33	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 04:33	1
Styrene	0.27		0.20	0.058	ppb v/v			03/18/14 04:33	1
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v			03/18/14 04:33	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 04:33	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 04:33	1
Toluene	0.26		0.20	0.12	ppb v/v			03/18/14 04:33	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 04:33	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 04:33	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 04:33	1
Trichlorofluoromethane	0.27	J	0.20	0.024	ppb v/v			03/18/14 04:33	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 04:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/18/14 04:33	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 04:33	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 04:33	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 04:33	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 04:33	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 04:33	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 04:33	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 04:33	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 04:33	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 04:33	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 04:33	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 04:33	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 04:33	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 04:33	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/18/14 04:33	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 04:33	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/18/14 04:33	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 04:33	1
2-Methylbutane	2.5		1.5	0.091	ug/m3			03/18/14 04:33	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 04:33	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 04:33	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/18/14 04:33	1
Acetone	5.5	J	12	3.3	ug/m3			03/18/14 04:33	1

Client Sample ID: PCV-IA2-B4
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.56	J	0.64	0.18	ug/m3			03/18/14 04:33	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 04:33	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 04:33	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 04:33	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 04:33	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 04:33	1
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3			03/18/14 04:33	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 04:33	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 04:33	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/18/14 04:33	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/18/14 04:33	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 04:33	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 04:33	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 04:33	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 04:33	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 04:33	1
Ethanol	72		3.8	3.8	ug/m3			03/18/14 04:33	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 04:33	1
Heptane	ND		2.0	0.19	ug/m3			03/18/14 04:33	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 04:33	1
Hexane	0.42	J	1.8	0.11	ug/m3			03/18/14 04:33	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 04:33	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 04:33	1
Isopropyl alcohol	57		4.9	0.23	ug/m3			03/18/14 04:33	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 04:33	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/18/14 04:33	1
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3			03/18/14 04:33	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 04:33	1
o-Xylene	0.44	J	0.87	0.26	ug/m3			03/18/14 04:33	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 04:33	1
Styrene	1.1		0.85	0.25	ug/m3			03/18/14 04:33	1
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3			03/18/14 04:33	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 04:33	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 04:33	1
Toluene	0.97		0.75	0.45	ug/m3			03/18/14 04:33	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 04:33	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 04:33	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 04:33	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/18/14 04:33	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/18/14 04:33*	*1*

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 16:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v			03/20/14 16:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 16:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 16:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 16:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 16:31	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 16:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 16:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 16:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 16:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 16:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 16:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 16:31	1
1,3-Butadiene	0.080	J	0.40	0.064	ppb v/v			03/20/14 16:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 16:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 16:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 16:31	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 16:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 16:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 16:31	1
2-Methylbutane	0.61		0.50	0.031	ppb v/v			03/20/14 16:31	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 16:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 16:31	1
4-Methyl-2-pentanone (MIBK)	0.070	J	0.50	0.045	ppb v/v			03/20/14 16:31	1
Acetone	1.5	J	5.0	1.4	ppb v/v			03/20/14 16:31	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/20/14 16:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 16:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 16:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 16:31	1
Bromomethane	0.042	J	0.20	0.032	ppb v/v			03/20/14 16:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 16:31	1
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v			03/20/14 16:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 16:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 16:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 16:31	1
Chloromethane	0.46	J	0.50	0.16	ppb v/v			03/20/14 16:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 16:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 16:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 16:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 16:31	1
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v			03/20/14 16:31	1
Ethanol	6.9		2.0	2.0	ppb v/v			03/20/14 16:31	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/20/14 16:31	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/20/14 16:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 16:31	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/20/14 16:31	1

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 16:31	1
Isopropyl alcohol	0.47	J	2.0	0.094	ppb v/v			03/20/14 16:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 16:31	1
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v			03/20/14 16:31	1
m-Xylene & p-Xylene	0.55		0.20	0.12	ppb v/v			03/20/14 16:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 16:31	1
o-Xylene	0.20		0.20	0.061	ppb v/v			03/20/14 16:31	1
Propene	0.72	~~or~~ J	0.50	0.077	ppb v/v			03/20/14 16:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 16:31	1
Tetrachloroethene	0.049	J	0.20	0.040	ppb v/v			03/20/14 16:31	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 16:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 16:31	1
Toluene	0.28		0.20	0.12	ppb v/v			03/20/14 16:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 16:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 16:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 16:31	1
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v			03/20/14 16:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 16:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3			03/20/14 16:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 16:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 16:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 16:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 16:31	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 16:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 16:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 16:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 16:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 16:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 16:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 16:31	1
1,3-Butadiene	0.18	J	0.88	0.14	ug/m3			03/20/14 16:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 16:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 16:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 16:31	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 16:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 16:31	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 16:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 16:31	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/20/14 16:31	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 16:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 16:31	1
4-Methyl-2-pentanone (MIBK)	0.29	J	2.0	0.18	ug/m3			03/20/14 16:31	1
Acetone	3.7	J	12	3.3	ug/m3			03/20/14 16:31	1

Client Sample ID: PCV-IA1-B6
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.62	J	0.64	0.18	ug/m3			03/20/14 16:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 16:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 16:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 16:31	1
Bromomethane	0.16	J	0.78	0.12	ug/m3			03/20/14 16:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 16:31	1
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3			03/20/14 16:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 16:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 16:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 16:31	1
Chloromethane	0.95	J	1.0	0.33	ug/m3			03/20/14 16:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 16:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 16:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 16:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 16:31	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/20/14 16:31	1
Ethanol	13		3.8	3.8	ug/m3			03/20/14 16:31	1
Ethylbenzene	0.44	J	0.87	0.30	ug/m3			03/20/14 16:31	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/20/14 16:31	1
Hexachlorobutadiene	ND	✗	11	0.83	ug/m3			03/20/14 16:31	1
Hexane	0.37	J	1.8	0.11	ug/m3			03/20/14 16:31	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 16:31	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 16:31	1
Isopropyl alcohol	1.2	J	4.9	0.23	ug/m3			03/20/14 16:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 16:31	1
Methylene Chloride	1.7	J	1.7	0.45	ug/m3			03/20/14 16:31	1
m-Xylene & p-Xylene	2.4		0.87	0.52	ug/m3			03/20/14 16:31	1
Naphthalene	ND	✗	2.6	0.47	ug/m3			03/20/14 16:31	1
o-Xylene	0.85		0.87	0.26	ug/m3			03/20/14 16:31	1
Propene	1.2	~~cn~~ J	0.86	0.13	ug/m3			03/20/14 16:31	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 16:31	1
Tetrachloroethene	0.33	J	1.4	0.27	ug/m3			03/20/14 16:31	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 16:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 16:31	1
Toluene	1.0		0.75	0.45	ug/m3			03/20/14 16:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 16:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 16:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 16:31	1
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3			03/20/14 16:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/20/14 16:31*	*1*

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 17:15	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 17:15	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 17:15	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 17:15	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 17:15	1
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v			03/20/14 17:15	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 17:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 17:15	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 17:15	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 17:15	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 17:15	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 17:15	1
1,3-Butadiene	0.064	J	0.40	0.064	ppb v/v			03/20/14 17:15	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 17:15	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 17:15	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 17:15	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 17:15	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/20/14 17:15	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 17:15	1
2-Methylbutane	0.60		0.50	0.031	ppb v/v			03/20/14 17:15	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 17:15	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 17:15	1
4-Methyl-2-pentanone (MIBK)	0.99	J	0.50	0.045	ppb v/v			03/20/14 17:15	1
Acetone	3.4	J	5.0	1.4	ppb v/v			03/20/14 17:15	1
Benzene	0.16	J	0.20	0.056	ppb v/v			03/20/14 17:15	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 17:15	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 17:15	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 17:15	1
Bromomethane	0.038	J	0.20	0.032	ppb v/v			03/20/14 17:15	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 17:15	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/20/14 17:15	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 17:15	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 17:15	1
Chloroform	0.076	J	0.20	0.038	ppb v/v			03/20/14 17:15	1
Chloromethane	0.45	J	0.50	0.16	ppb v/v			03/20/14 17:15	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 17:15	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 17:15	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 17:15	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 17:15	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/20/14 17:15	1
Ethanol	8.0		2.0	2.0	ppb v/v			03/20/14 17:15	1
Ethylbenzene	0.22		0.20	0.068	ppb v/v			03/20/14 17:15	1
Heptane	0.063	J	0.50	0.047	ppb v/v			03/20/14 17:15	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 17:15	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/20/14 17:15	1

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 17:15	1
Isopropyl alcohol	0.80	J	2.0	0.094	ppb v/v			03/20/14 17:15	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 17:15	1
Methylene Chloride	0.48	J	0.50	0.13	ppb v/v			03/20/14 17:15	1
m-Xylene & p-Xylene	1.3		0.20	0.12	ppb v/v			03/20/14 17:15	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 17:15	1
o-Xylene	0.44		0.20	0.061	ppb v/v			03/20/14 17:15	1
Propene	0.73	~~cn~~ J	0.50	0.077	ppb v/v			03/20/14 17:15	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 17:15	1
Tetrachloroethene	0.040	J	0.20	0.040	ppb v/v			03/20/14 17:15	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 17:15	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 17:15	1
Toluene	0.25		0.20	0.12	ppb v/v			03/20/14 17:15	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 17:15	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 17:15	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 17:15	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/20/14 17:15	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 17:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 17:15	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 17:15	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 17:15	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 17:15	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 17:15	1
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/20/14 17:15	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 17:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 17:15	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 17:15	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 17:15	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 17:15	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 17:15	1
1,3-Butadiene	0.14	J	0.88	0.14	ug/m3			03/20/14 17:15	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 17:15	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 17:15	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 17:15	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 17:15	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 17:15	1
2-Butanone (MEK)	0.72	J	2.9	0.59	ug/m3			03/20/14 17:15	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 17:15	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/20/14 17:15	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 17:15	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 17:15	1
4-Methyl-2-pentanone (MIBK)	4.1	J	2.0	0.18	ug/m3			03/20/14 17:15	1
Acetone	8.1	J	12	3.3	ug/m3			03/20/14 17:15	1

Client Sample ID: PCV-IA2-B6
Date Collected: 03/14/14 16:34
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	J	0.64	0.18	ug/m3			03/20/14 17:15	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 17:15	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 17:15	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 17:15	1
Bromomethane	0.15	J	0.78	0.12	ug/m3			03/20/14 17:15	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 17:15	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/20/14 17:15	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 17:15	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 17:15	1
Chloroform	0.37	J	0.98	0.19	ug/m3			03/20/14 17:15	1
Chloromethane	0.94	J	1.0	0.33	ug/m3			03/20/14 17:15	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 17:15	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 17:15	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 17:15	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 17:15	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 17:15	1
Ethanol	15		3.8	3.8	ug/m3			03/20/14 17:15	1
Ethylbenzene	0.97		0.87	0.30	ug/m3			03/20/14 17:15	1
Heptane	0.26	J	2.0	0.19	ug/m3			03/20/14 17:15	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 17:15	1
Hexane	0.37	J	1.8	0.11	ug/m3			03/20/14 17:15	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 17:15	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 17:15	1
Isopropyl alcohol	2.0	J	4.9	0.23	ug/m3			03/20/14 17:15	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 17:15	1
Methylene Chloride	1.7	J	1.7	0.45	ug/m3			03/20/14 17:15	1
m-Xylene & p-Xylene	5.7		0.87	0.52	ug/m3			03/20/14 17:15	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 17:15	1
o-Xylene	1.9		0.87	0.26	ug/m3			03/20/14 17:15	1
Propene	1.3	~~or~~ J	0.86	0.13	ug/m3			03/20/14 17:15	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 17:15	1
Tetrachloroethene	0.27	J	1.4	0.27	ug/m3			03/20/14 17:15	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 17:15	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 17:15	1
Toluene	0.93		0.75	0.45	ug/m3			03/20/14 17:15	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 17:15	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 17:15	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 17:15	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/20/14 17:15	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/20/14 17:15*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/20/14 18:00	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/20/14 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/20/14 18:00	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/20/14 18:00	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/20/14 18:00	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/20/14 18:00	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/20/14 18:00	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/20/14 18:00	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/20/14 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 18:00	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/20/14 18:00	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/20/14 18:00	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/20/14 18:00	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 18:00	1
1,3-Butadiene	0.067	J	0.40	0.064	ppb v/v			03/20/14 18:00	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 18:00	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/20/14 18:00	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/20/14 18:00	1
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v			03/20/14 18:00	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 18:00	1
2-Butanone (MEK)	ND	UJ	1.0	0.20	ppb v/v			03/20/14 18:00	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/20/14 18:00	1
2-Methylbutane	0.73		0.50	0.031	ppb v/v			03/20/14 18:00	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 18:00	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/20/14 18:00	1
4-Methyl-2-pentanone (MIBK)	~~0.35 J~~ 0.50	UJ	0.50	0.045	ppb v/v			03/20/14 18:00	1
Acetone	3.9	J	5.0	1.4	ppb v/v			03/20/14 18:00	1
Benzene	0.21	J	0.20	0.056	ppb v/v			03/20/14 18:00	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/20/14 18:00	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/20/14 18:00	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/20/14 18:00	1
Bromomethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 18:00	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/20/14 18:00	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/20/14 18:00	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/20/14 18:00	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/20/14 18:00	1
Chloroform	0.047	J	0.20	0.038	ppb v/v			03/20/14 18:00	1
Chloromethane	0.62	J	0.50	0.16	ppb v/v			03/20/14 18:00	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/20/14 18:00	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/20/14 18:00	1
Cyclohexane	0.040	J	0.50	0.040	ppb v/v			03/20/14 18:00	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/20/14 18:00	1
Dichlorodifluoromethane	0.49	J	0.20	0.068	ppb v/v			03/20/14 18:00	1
Ethanol	12	J	2.0	2.0	ppb v/v			03/20/14 18:00	1
Ethylbenzene	0.79	J	0.20	0.068	ppb v/v			03/20/14 18:00	1
Heptane	0.062	J	0.50	0.047	ppb v/v			03/20/14 18:00	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/20/14 18:00	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/20/14 18:00	1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 18:00	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/20/14 18:00	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/20/14 18:00	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/20/14 18:00	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/20/14 18:00	1
m-Xylene & p-Xylene	5.4	J	0.20	0.12	ppb v/v			03/20/14 18:00	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/20/14 18:00	1
o-Xylene	1.9	J	0.20	0.061	ppb v/v			03/20/14 18:00	1
Propene	1.0 ~~cn~~	J	0.50	0.077	ppb v/v			03/20/14 18:00	1
Styrene	0.066	J	0.20	0.058	ppb v/v			03/20/14 18:00	1
Tetrachloroethene	0.055	J	0.20	0.040	ppb v/v			03/20/14 18:00	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 18:00	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/20/14 18:00	1
Toluene	0.44	J	0.20	0.12	ppb v/v			03/20/14 18:00	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/20/14 18:00	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/20/14 18:00	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/20/14 18:00	1
Trichlorofluoromethane	0.28	J	0.20	0.024	ppb v/v			03/20/14 18:00	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/20/14 18:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/20/14 18:00	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/20/14 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3			03/20/14 18:00	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/20/14 18:00	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/20/14 18:00	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/20/14 18:00	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/20/14 18:00	1
1,2,4-Trimethylbenzene	0.55	J	0.98	0.31	ug/m3			03/20/14 18:00	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/20/14 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/20/14 18:00	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/20/14 18:00	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/20/14 18:00	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/20/14 18:00	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/20/14 18:00	1
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3			03/20/14 18:00	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/20/14 18:00	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/20/14 18:00	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/20/14 18:00	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/20/14 18:00	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/20/14 18:00	1
2-Butanone (MEK)	ND	UJ	2.9	0.59	ug/m3			03/20/14 18:00	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/20/14 18:00	1
2-Methylbutane	2.2	J	1.5	0.091	ug/m3			03/20/14 18:00	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 18:00	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/20/14 18:00	1
4-Methyl-2-pentanone (MIBK)	~~4.4 J~~	2.0 UJ	2.0	0.18	ug/m3			03/20/14 18:00	1
Acetone	9.2	J	12	3.3	ug/m3			03/20/14 18:00	1

Client Sample ID: PCV-IA1-B15
Date Collected: 03/14/14 16:10
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.68	J	0.64	0.18	ug/m3			03/20/14 18:00	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/20/14 18:00	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/20/14 18:00	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/20/14 18:00	1
Bromomethane	ND	UJ	0.78	0.12	ug/m3			03/20/14 18:00	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/20/14 18:00	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/20/14 18:00	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/20/14 18:00	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/20/14 18:00	1
Chloroform	0.23	J	0.98	0.19	ug/m3			03/20/14 18:00	1
Chloromethane	1.3	J	1.0	0.33	ug/m3			03/20/14 18:00	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/20/14 18:00	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/20/14 18:00	1
Cyclohexane	0.14	J	1.7	0.14	ug/m3			03/20/14 18:00	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/20/14 18:00	1
Dichlorodifluoromethane	2.4	J	0.99	0.34	ug/m3			03/20/14 18:00	1
Ethanol	23	J	3.8	3.8	ug/m3			03/20/14 18:00	1
Ethylbenzene	3.4	J	0.87	0.30	ug/m3			03/20/14 18:00	1
Heptane	0.25	J	2.0	0.19	ug/m3			03/20/14 18:00	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/20/14 18:00	1
Hexane	0.38	J	1.8	0.11	ug/m3			03/20/14 18:00	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/20/14 18:00	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/20/14 18:00	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/20/14 18:00	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/20/14 18:00	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/20/14 18:00	1
m-Xylene & p-Xylene	24	J	0.87	0.52	ug/m3			03/20/14 18:00	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/20/14 18:00	1
o-Xylene	8.4	J	0.87	0.26	ug/m3			03/20/14 18:00	1
Propene	1.7	~~on~~ J	0.86	0.13	ug/m3			03/20/14 18:00	1
Styrene	0.28	J	0.85	0.25	ug/m3			03/20/14 18:00	1
Tetrachloroethene	0.37	J	1.4	0.27	ug/m3			03/20/14 18:00	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 18:00	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/20/14 18:00	1
Toluene	1.7	J	0.75	0.45	ug/m3			03/20/14 18:00	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/20/14 18:00	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/20/14 18:00	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/20/14 18:00	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/20/14 18:00	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/20/14 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/20/14 18:00*	*1*

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 18:46	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v			03/20/14 18:46	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 18:46	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 18:46	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 18:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 18:46	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/20/14 18:46	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 18:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 18:46	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 18:46	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 18:46	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 18:46	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:46	1
1,3-Butadiene	0.33	J	0.40	0.064	ppb v/v			03/20/14 18:46	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 18:46	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 18:46	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 18:46	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 18:46	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 18:46	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 18:46	1
2-Methylbutane	0.65		0.50	0.031	ppb v/v			03/20/14 18:46	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 18:46	1
4-Ethyltoluene	0.085	J	0.40	0.066	ppb v/v			03/20/14 18:46	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	0.50	0.045	ppb v/v			03/20/14 18:46	1
Acetone	3.3	J	5.0	1.4	ppb v/v			03/20/14 18:46	1
Benzene	0.22		0.20	0.056	ppb v/v			03/20/14 18:46	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 18:46	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 18:46	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 18:46	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 18:46	1
Carbon disulfide	0.041	J	0.50	0.031	ppb v/v			03/20/14 18:46	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/20/14 18:46	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 18:46	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 18:46	1
Chloroform	0.55		0.20	0.038	ppb v/v			03/20/14 18:46	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/20/14 18:46	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 18:46	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 18:46	1
Cyclohexane	0.040	J	0.50	0.040	ppb v/v			03/20/14 18:46	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 18:46	1
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v			03/20/14 18:46	1
Ethanol	13		2.0	2.0	ppb v/v			03/20/14 18:46	1
Ethylbenzene	0.36		0.20	0.068	ppb v/v			03/20/14 18:46	1
Heptane	0.054	J	0.50	0.047	ppb v/v			03/20/14 18:46	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 18:46	1
Hexane	0.19	J	0.50	0.032	ppb v/v			03/20/14 18:46	1

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 18:46	1
Isopropyl alcohol	0.91	J	2.0	0.094	ppb v/v			03/20/14 18:46	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 18:46	1
Methylene Chloride	0.76		0.50	0.13	ppb v/v			03/20/14 18:46	1
m-Xylene & p-Xylene	2.2		0.20	0.12	ppb v/v			03/20/14 18:46	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 18:46	1
o-Xylene	0.70		0.20	0.061	ppb v/v			03/20/14 18:46	1
Propene	1.3	~~UJ~~ J	0.50	0.077	ppb v/v			03/20/14 18:46	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 18:46	1
Tetrachloroethene	0.086	J	0.20	0.040	ppb v/v			03/20/14 18:46	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 18:46	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 18:46	1
Toluene	0.41		0.20	0.12	ppb v/v			03/20/14 18:46	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 18:46	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 18:46	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 18:46	1
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v			03/20/14 18:46	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 18:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3			03/20/14 18:46	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 18:46	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 18:46	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 18:46	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 18:46	1
1,2,4-Trimethylbenzene	0.57	J	0.98	0.31	ug/m3			03/20/14 18:46	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 18:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 18:46	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 18:46	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 18:46	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 18:46	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 18:46	1
1,3-Butadiene	0.73	J	0.88	0.14	ug/m3			03/20/14 18:46	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 18:46	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 18:46	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 18:46	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 18:46	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 18:46	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 18:46	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 18:46	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/20/14 18:46	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 18:46	1
4-Ethyltoluene	0.42	J	2.0	0.32	ug/m3			03/20/14 18:46	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	2.0	0.18	ug/m3			03/20/14 18:46	1
Acetone	7.7	J	12	3.3	ug/m3			03/20/14 18:46	1

Client Sample ID: PCV-IA2-B15
Date Collected: 03/14/14 16:16
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.70		0.64	0.18	ug/m3			03/20/14 18:46	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 18:46	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 18:46	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 18:46	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 18:46	1
Carbon disulfide	0.13	J	1.6	0.097	ug/m3			03/20/14 18:46	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/20/14 18:46	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 18:46	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 18:46	1
Chloroform	2.7		0.98	0.19	ug/m3			03/20/14 18:46	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/20/14 18:46	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 18:46	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 18:46	1
Cyclohexane	0.14	J	1.7	0.14	ug/m3			03/20/14 18:46	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 18:46	1
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3			03/20/14 18:46	1
Ethanol	24		3.8	3.8	ug/m3			03/20/14 18:46	1
Ethylbenzene	1.6		0.87	0.30	ug/m3			03/20/14 18:46	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/20/14 18:46	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 18:46	1
Hexane	0.66	J	1.8	0.11	ug/m3			03/20/14 18:46	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 18:46	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 18:46	1
Isopropyl alcohol	2.2	J	4.9	0.23	ug/m3			03/20/14 18:46	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 18:46	1
Methylene Chloride	2.6		1.7	0.45	ug/m3			03/20/14 18:46	1
m-Xylene & p-Xylene	9.6		0.87	0.52	ug/m3			03/20/14 18:46	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 18:46	1
o-Xylene	3.0		0.87	0.26	ug/m3			03/20/14 18:46	1
Propene	2.3	~~cn~~ J	0.86	0.13	ug/m3			03/20/14 18:46	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 18:46	1
Tetrachloroethene	0.58	J	1.4	0.27	ug/m3			03/20/14 18:46	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 18:46	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 18:46	1
Toluene	1.6		0.75	0.45	ug/m3			03/20/14 18:46	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 18:46	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 18:46	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 18:46	1
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3			03/20/14 18:46	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/20/14 18:46*	*1*

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/20/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 19:31	1
1,2,4-Trimethylbenzene	0.076	J	0.20	0.063	ppb v/v			03/20/14 19:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 19:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 19:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 19:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 19:31	1
1,3-Butadiene	0.078	J	0.40	0.064	ppb v/v			03/20/14 19:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 19:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 19:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 19:31	1
2,2,4-Trimethylpentane	0.041	J	0.50	0.039	ppb v/v			03/20/14 19:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 19:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 19:31	1
2-Methylbutane	0.81		0.50	0.031	ppb v/v			03/20/14 19:31	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 19:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 19:31	1
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v			03/20/14 19:31	1
Acetone	2.6	J	5.0	1.4	ppb v/v			03/20/14 19:31	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/20/14 19:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 19:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 19:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 19:31	1
Bromomethane	0.054	J	0.20	0.032	ppb v/v			03/20/14 19:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 19:31	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/20/14 19:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 19:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 19:31	1
Chloroform	0.11	J	0.20	0.038	ppb v/v			03/20/14 19:31	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/20/14 19:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 19:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 19:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 19:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 19:31	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/20/14 19:31	1
Ethanol	12		2.0	2.0	ppb v/v			03/20/14 19:31	1
Ethylbenzene	0.29		0.20	0.068	ppb v/v			03/20/14 19:31	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 19:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 19:31	1
Hexane	0.10	J	0.50	0.032	ppb v/v			03/20/14 19:31	1

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 19:31	1
Isopropyl alcohol	1.6	J	2.0	0.094	ppb v/v			03/20/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 19:31	1
Methylene Chloride	0.43	J	0.50	0.13	ppb v/v			03/20/14 19:31	1
m-Xylene & p-Xylene	1.9		0.20	0.12	ppb v/v			03/20/14 19:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 19:31	1
o-Xylene	0.61		0.20	0.061	ppb v/v			03/20/14 19:31	1
Propene	1.1	~~on~~ J	0.50	0.077	ppb v/v			03/20/14 19:31	1
Styrene	0.12	J	0.20	0.058	ppb v/v			03/20/14 19:31	1
Tetrachloroethene	0.065	J	0.20	0.040	ppb v/v			03/20/14 19:31	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 19:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 19:31	1
Toluene	0.38		0.20	0.12	ppb v/v			03/20/14 19:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 19:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 19:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 19:31	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/20/14 19:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 19:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/20/14 19:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 19:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 19:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 19:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 19:31	1
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/20/14 19:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 19:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 19:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 19:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 19:31	1
1,3-Butadiene	0.17	J	0.88	0.14	ug/m3			03/20/14 19:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 19:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 19:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 19:31	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/20/14 19:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 19:31	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 19:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 19:31	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/20/14 19:31	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 19:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 19:31	1
4-Methyl-2-pentanone (MIBK)	0.98	J	2.0	0.18	ug/m3			03/20/14 19:31	1
Acetone	6.2	J	12	3.3	ug/m3			03/20/14 19:31	1

Client Sample ID: PCV-IA3-B15
Date Collected: 03/14/14 16:20
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.60	J	0.64	0.18	ug/m3			03/20/14 19:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 19:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 19:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 19:31	1
Bromomethane	0.21	J	0.78	0.12	ug/m3			03/20/14 19:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 19:31	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/20/14 19:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 19:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 19:31	1
Chloroform	0.52	J	0.98	0.19	ug/m3			03/20/14 19:31	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/20/14 19:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 19:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 19:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 19:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 19:31	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/20/14 19:31	1
Ethanol	23		3.8	3.8	ug/m3			03/20/14 19:31	1
Ethylbenzene	1.3		0.87	0.30	ug/m3			03/20/14 19:31	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 19:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 19:31	1
Hexane	0.36	J	1.8	0.11	ug/m3			03/20/14 19:31	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 19:31	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 19:31	1
Isopropyl alcohol	4.0	J	4.9	0.23	ug/m3			03/20/14 19:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 19:31	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/20/14 19:31	1
m-Xylene & p-Xylene	8.1		0.87	0.52	ug/m3			03/20/14 19:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 19:31	1
o-Xylene	2.7		0.87	0.26	ug/m3			03/20/14 19:31	1
Propene	1.9	~~UJ~~ J	0.86	0.13	ug/m3			03/20/14 19:31	1
Styrene	0.50	J	0.85	0.25	ug/m3			03/20/14 19:31	1
Tetrachloroethene	0.44	J	1.4	0.27	ug/m3			03/20/14 19:31	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 19:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 19:31	1
Toluene	1.5		0.75	0.45	ug/m3			03/20/14 19:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 19:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 19:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 19:31	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/20/14 19:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/20/14 19:31*	*1*

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 20:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 20:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.087	J	0.20	0.031	ppb v/v			03/20/14 20:16	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 20:16	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 20:16	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 20:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 20:16	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 20:16	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 20:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 20:16	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 20:16	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 20:16	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 20:16	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 20:16	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 20:16	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 20:16	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 20:16	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 20:16	1
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v			03/20/14 20:16	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/20/14 20:16	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 20:16	1
2-Methylbutane	0.87		0.50	0.031	ppb v/v			03/20/14 20:16	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 20:16	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 20:16	1
4-Methyl-2-pentanone (MIBK)	0.095	J	0.50	0.045	ppb v/v			03/20/14 20:16	1
Acetone	3.0	J	5.0	1.4	ppb v/v			03/20/14 20:16	1
Benzene	0.22		0.20	0.056	ppb v/v			03/20/14 20:16	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 20:16	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 20:16	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 20:16	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 20:16	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 20:16	1
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v			03/20/14 20:16	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 20:16	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 20:16	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 20:16	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/20/14 20:16	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 20:16	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 20:16	1
Cyclohexane	0.080	J	0.50	0.040	ppb v/v			03/20/14 20:16	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 20:16	1
Dichlorodifluoromethane	0.50		0.20	0.068	ppb v/v			03/20/14 20:16	1
Ethanol	10		2.0	2.0	ppb v/v			03/20/14 20:16	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 20:16	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/20/14 20:16	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 20:16	1
Hexane	0.24	J	0.50	0.032	ppb v/v			03/20/14 20:16	1

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 20:16	1
Isopropyl alcohol	0.95	J	2.0	0.094	ppb v/v			03/20/14 20:16	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 20:16	1
Methylene Chloride	0.85		0.50	0.13	ppb v/v			03/20/14 20:16	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 20:16	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 20:16	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 20:16	1
Propene	0.97	~~on~~ J	0.50	0.077	ppb v/v			03/20/14 20:16	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 20:16	1
Tetrachloroethene	0.068	J	0.20	0.040	ppb v/v			03/20/14 20:16	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 20:16	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 20:16	1
Toluene	0.32		0.20	0.12	ppb v/v			03/20/14 20:16	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 20:16	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 20:16	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 20:16	1
Trichlorofluoromethane	0.32		0.20	0.024	ppb v/v			03/20/14 20:16	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 20:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 20:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 20:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	J	1.5	0.24	ug/m3			03/20/14 20:16	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 20:16	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 20:16	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 20:16	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 20:16	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 20:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 20:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 20:16	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 20:16	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 20:16	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 20:16	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 20:16	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 20:16	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 20:16	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 20:16	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 20:16	1
2,2,4-Trimethylpentane	0.20	J	2.3	0.18	ug/m3			03/20/14 20:16	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 20:16	1
2-Butanone (MEK)	0.72	J	2.9	0.59	ug/m3			03/20/14 20:16	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 20:16	1
2-Methylbutane	2.6		1.5	0.091	ug/m3			03/20/14 20:16	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 20:16	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 20:16	1
4-Methyl-2-pentanone (MIBK)	0.39	J	2.0	0.18	ug/m3			03/20/14 20:16	1
Acetone	7.2	J	12	3.3	ug/m3			03/20/14 20:16	1

Client Sample ID: PCV-AMB7
Date Collected: 03/14/14 15:47
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.70		0.64	0.18	ug/m3			03/20/14 20:16	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 20:16	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 20:16	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 20:16	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 20:16	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 20:16	1
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3			03/20/14 20:16	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 20:16	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 20:16	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 20:16	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/20/14 20:16	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 20:16	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 20:16	1
Cyclohexane	0.27	J	1.7	0.14	ug/m3			03/20/14 20:16	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 20:16	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/20/14 20:16	1
Ethanol	19		3.8	3.8	ug/m3			03/20/14 20:16	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 20:16	1
Heptane	0.46	J	2.0	0.19	ug/m3			03/20/14 20:16	1
Hexachlorobutadiene	ND	✓	11	0.83	ug/m3			03/20/14 20:16	1
Hexane	0.83	J	1.8	0.11	ug/m3			03/20/14 20:16	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 20:16	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 20:16	1
Isopropyl alcohol	2.3	J	4.9	0.23	ug/m3			03/20/14 20:16	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 20:16	1
Methylene Chloride	3.0		1.7	0.45	ug/m3			03/20/14 20:16	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 20:16	1
Naphthalene	ND	✓	2.6	0.47	ug/m3			03/20/14 20:16	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 20:16	1
Propene	1.7	~~CR~~ J	0.86	0.13	ug/m3			03/20/14 20:16	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 20:16	1
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3			03/20/14 20:16	1
Tetrahydrofuran	ND	WJ	2.9	0.19	ug/m3			03/20/14 20:16	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 20:16	1
Toluene	1.2		0.75	0.45	ug/m3			03/20/14 20:16	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 20:16	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 20:16	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 20:16	1
Trichlorofluoromethane	1.8		1.1	0.13	ug/m3			03/20/14 20:16	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*03/20/14 20:16*	*1*

Client Sample ID: PCV-IA1-B17
Date Collected: 03/14/14 08:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/20/14 21:00	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/20/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.081	J	0.20	0.031	ppb v/v			03/20/14 21:00	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/20/14 21:00	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/20/14 21:00	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/20/14 21:00	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/20/14 21:00	1
1,2,4-Trimethylbenzene	ND	UJ	0.20	0.063	ppb v/v			03/20/14 21:00	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/20/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 21:00	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/20/14 21:00	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/20/14 21:00	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/20/14 21:00	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 21:00	1
1,3-Butadiene	0.097	J	0.40	0.064	ppb v/v			03/20/14 21:00	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 21:00	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/20/14 21:00	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/20/14 21:00	1
2,2,4-Trimethylpentane	0.054	J	0.50	0.039	ppb v/v			03/20/14 21:00	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:00	1
2-Butanone (MEK)	0.20	J	1.0	0.20	ppb v/v			03/20/14 21:00	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/20/14 21:00	1
2-Methylbutane	0.85	J	0.50	0.031	ppb v/v			03/20/14 21:00	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:00	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/20/14 21:00	1
4-Methyl-2-pentanone (MIBK)	0.072	J	0.50	0.045	ppb v/v			03/20/14 21:00	1
Acetone	2.1	J	5.0	1.4	ppb v/v			03/20/14 21:00	1
Benzene	0.23	J	0.20	0.056	ppb v/v			03/20/14 21:00	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/20/14 21:00	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/20/14 21:00	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/20/14 21:00	1
Bromomethane	0.045	J	0.20	0.032	ppb v/v			03/20/14 21:00	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/20/14 21:00	1
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v			03/20/14 21:00	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/20/14 21:00	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/20/14 21:00	1
Chloroform	0.060	J	0.20	0.038	ppb v/v			03/20/14 21:00	1
Chloromethane	0.51	J	0.50	0.16	ppb v/v			03/20/14 21:00	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/20/14 21:00	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/20/14 21:00	1
Cyclohexane	ND	UJ	0.50	0.040	ppb v/v			03/20/14 21:00	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/20/14 21:00	1
Dichlorodifluoromethane	0.48	J	0.20	0.068	ppb v/v			03/20/14 21:00	1
Ethanol	11	J	2.0	2.0	ppb v/v			03/20/14 21:00	1
Ethylbenzene	ND	UJ	0.20	0.068	ppb v/v			03/20/14 21:00	1
Heptane	0.051	J	0.50	0.047	ppb v/v			03/20/14 21:00	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/20/14 21:00	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/20/14 21:00	1

Client Sample ID: PCV-IA1-B17
Date Collected: 03/14/14 08:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:00	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/20/14 21:00	1
Isopropyl alcohol	2.6	J	2.0	0.094	ppb v/v			03/20/14 21:00	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/20/14 21:00	1
Methylene Chloride	0.85	J	0.50	0.13	ppb v/v			03/20/14 21:00	1
m-Xylene & p-Xylene	ND	UJ	0.20	0.12	ppb v/v			03/20/14 21:00	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/20/14 21:00	1
o-Xylene	ND	UJ	0.20	0.061	ppb v/v			03/20/14 21:00	1
Propene	1.0 ~~on~~	J	0.50	0.077	ppb v/v			03/20/14 21:00	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/20/14 21:00	1
Tetrachloroethene	0.41	J	0.20	0.040	ppb v/v			03/20/14 21:00	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 21:00	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:00	1
Toluene	0.24	J	0.20	0.12	ppb v/v			03/20/14 21:00	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/20/14 21:00	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/20/14 21:00	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/20/14 21:00	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/20/14 21:00	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/20/14 21:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/20/14 21:00	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/20/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	J	1.5	0.24	ug/m3			03/20/14 21:00	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/20/14 21:00	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/20/14 21:00	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/20/14 21:00	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/20/14 21:00	1
1,2,4-Trimethylbenzene	ND	UJ	0.98	0.31	ug/m3			03/20/14 21:00	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/20/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/20/14 21:00	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/20/14 21:00	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/20/14 21:00	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/20/14 21:00	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/20/14 21:00	1
1,3-Butadiene	0.22	J	0.88	0.14	ug/m3			03/20/14 21:00	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/20/14 21:00	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/20/14 21:00	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/20/14 21:00	1
2,2,4-Trimethylpentane	0.25	J	2.3	0.18	ug/m3			03/20/14 21:00	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/20/14 21:00	1
2-Butanone (MEK)	0.60	J	2.9	0.59	ug/m3			03/20/14 21:00	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/20/14 21:00	1
2-Methylbutane	2.5	J	1.5	0.091	ug/m3			03/20/14 21:00	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 21:00	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/20/14 21:00	1
4-Methyl-2-pentanone (MIBK)	0.29	J	2.0	0.18	ug/m3			03/20/14 21:00	1
Acetone	4.9	J	12	3.3	ug/m3			03/20/14 21:00	1

Client Sample ID: PCV-IA1-B17
Date Collected: 03/14/14 08:50
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.74	J	0.64	0.18	ug/m3			03/20/14 21:00	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/20/14 21:00	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/20/14 21:00	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/20/14 21:00	1
Bromomethane	0.17	J	0.78	0.12	ug/m3			03/20/14 21:00	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/20/14 21:00	1
Carbon tetrachloride	0.55	J	1.3	0.24	ug/m3			03/20/14 21:00	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/20/14 21:00	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/20/14 21:00	1
Chloroform	0.29	J	0.98	0.19	ug/m3			03/20/14 21:00	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/20/14 21:00	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/20/14 21:00	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/20/14 21:00	1
Cyclohexane	ND	UJ	1.7	0.14	ug/m3			03/20/14 21:00	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/20/14 21:00	1
Dichlorodifluoromethane	2.4	J	0.99	0.34	ug/m3			03/20/14 21:00	1
Ethanol	20	J	3.8	3.8	ug/m3			03/20/14 21:00	1
Ethylbenzene	ND	UJ	0.87	0.30	ug/m3			03/20/14 21:00	1
Heptane	0.21	J	2.0	0.19	ug/m3			03/20/14 21:00	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/20/14 21:00	1
Hexane	0.42	J	1.8	0.11	ug/m3			03/20/14 21:00	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/20/14 21:00	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/20/14 21:00	1
Isopropyl alcohol	6.3	J	4.9	0.23	ug/m3			03/20/14 21:00	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/20/14 21:00	1
Methylene Chloride	3.0	J	1.7	0.45	ug/m3			03/20/14 21:00	1
m-Xylene & p-Xylene	ND	UJ	0.87	0.52	ug/m3			03/20/14 21:00	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/20/14 21:00	1
o-Xylene	ND	UJ	0.87	0.26	ug/m3			03/20/14 21:00	1
Propene	1.7 ~~cn~~	J	0.86	0.13	ug/m3			03/20/14 21:00	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/20/14 21:00	1
Tetrachloroethene	2.8	J	1.4	0.27	ug/m3			03/20/14 21:00	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 21:00	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/20/14 21:00	1
Toluene	0.91	J	0.75	0.45	ug/m3			03/20/14 21:00	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/20/14 21:00	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/20/14 21:00	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/20/14 21:00	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/20/14 21:00	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/20/14 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/20/14 21:00*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA2-B17
Date Collected: 03/14/14 16:30
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/20/14 21:45	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/20/14 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.082	J	0.20	0.031	ppb v/v			03/20/14 21:45	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/20/14 21:45	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/20/14 21:45	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/20/14 21:45	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/20/14 21:45	1
1,2,4-Trimethylbenzene	ND	UJ	0.20	0.063	ppb v/v			03/20/14 21:45	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/20/14 21:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 21:45	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/20/14 21:45	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/20/14 21:45	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/20/14 21:45	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 21:45	1
1,3-Butadiene	ND	UJ	0.40	0.064	ppb v/v			03/20/14 21:45	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 21:45	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/20/14 21:45	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/20/14 21:45	1
2,2,4-Trimethylpentane	ND	UJ	0.50	0.039	ppb v/v			03/20/14 21:45	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:45	1
2-Butanone (MEK)	0.34	J	1.0	0.20	ppb v/v			03/20/14 21:45	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/20/14 21:45	1
2-Methylbutane	0.73	J	0.50	0.031	ppb v/v			03/20/14 21:45	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:45	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/20/14 21:45	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	0.50	0.045	ppb v/v			03/20/14 21:45	1
Acetone	4.3	J	5.0	1.4	ppb v/v			03/20/14 21:45	1
Benzene	0.20	J	0.20	0.056	ppb v/v			03/20/14 21:45	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/20/14 21:45	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/20/14 21:45	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/20/14 21:45	1
Bromomethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 21:45	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/20/14 21:45	1
Carbon tetrachloride	0.090	J	0.20	0.038	ppb v/v			03/20/14 21:45	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/20/14 21:45	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/20/14 21:45	1
Chloroform	0.040	J	0.20	0.038	ppb v/v			03/20/14 21:45	1
Chloromethane	0.84	J	0.50	0.16	ppb v/v			03/20/14 21:45	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/20/14 21:45	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/20/14 21:45	1
Cyclohexane	ND	UJ	0.50	0.040	ppb v/v			03/20/14 21:45	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/20/14 21:45	1
Dichlorodifluoromethane	0.53	J	0.20	0.068	ppb v/v			03/20/14 21:45	1
Ethanol	11	J	2.0	2.0	ppb v/v			03/20/14 21:45	1
Ethylbenzene	ND	UJ	0.20	0.068	ppb v/v			03/20/14 21:45	1
Heptane	ND	UJ	0.50	0.047	ppb v/v			03/20/14 21:45	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/20/14 21:45	1
Hexane	0.10	J	0.50	0.032	ppb v/v			03/20/14 21:45	1

Client Sample ID: PCV-IA2-B17
Date Collected: 03/14/14 16:30
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:45	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/20/14 21:45	1
Isopropyl alcohol	7.9	J	2.0	0.094	ppb v/v			03/20/14 21:45	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/20/14 21:45	1
Methylene Chloride	8.9	J	0.50	0.13	ppb v/v			03/20/14 21:45	1
m-Xylene & p-Xylene	0.19	J	0.20	0.12	ppb v/v			03/20/14 21:45	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/20/14 21:45	1
o-Xylene	0.076	J	0.20	0.061	ppb v/v			03/20/14 21:45	1
Propene	0.82	~~cn~~ J	0.50	0.077	ppb v/v			03/20/14 21:45	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/20/14 21:45	1
Tetrachloroethene	0.051	J	0.20	0.040	ppb v/v			03/20/14 21:45	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 21:45	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/20/14 21:45	1
Toluene	0.22	J	0.20	0.12	ppb v/v			03/20/14 21:45	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/20/14 21:45	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/20/14 21:45	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/20/14 21:45	1
Trichlorofluoromethane	0.28	J	0.20	0.024	ppb v/v			03/20/14 21:45	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/20/14 21:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/20/14 21:45	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/20/14 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3			03/20/14 21:45	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/20/14 21:45	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/20/14 21:45	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/20/14 21:45	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/20/14 21:45	1
1,2,4-Trimethylbenzene	ND	UJ	0.98	0.31	ug/m3			03/20/14 21:45	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/20/14 21:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/20/14 21:45	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/20/14 21:45	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/20/14 21:45	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/20/14 21:45	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/20/14 21:45	1
1,3-Butadiene	ND	UJ	0.88	0.14	ug/m3			03/20/14 21:45	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/20/14 21:45	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/20/14 21:45	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/20/14 21:45	1
2,2,4-Trimethylpentane	ND	UJ	2.3	0.18	ug/m3			03/20/14 21:45	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/20/14 21:45	1
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3			03/20/14 21:45	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/20/14 21:45	1
2-Methylbutane	2.2	J	1.5	0.091	ug/m3			03/20/14 21:45	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 21:45	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/20/14 21:45	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	2.0	0.18	ug/m3			03/20/14 21:45	1
Acetone	10	J	12	3.3	ug/m3			03/20/14 21:45	1

Client Sample ID: PCV-IA2-B17
Date Collected: 03/14/14 16:30
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.63	J	0.64	0.18	ug/m3			03/20/14 21:45	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/20/14 21:45	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/20/14 21:45	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/20/14 21:45	1
Bromomethane	ND	UJ	0.78	0.12	ug/m3			03/20/14 21:45	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/20/14 21:45	1
Carbon tetrachloride	0.57	J	1.3	0.24	ug/m3			03/20/14 21:45	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/20/14 21:45	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/20/14 21:45	1
Chloroform	0.19	J	0.98	0.19	ug/m3			03/20/14 21:45	1
Chloromethane	1.7	J	1.0	0.33	ug/m3			03/20/14 21:45	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/20/14 21:45	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/20/14 21:45	1
Cyclohexane	ND	UJ	1.7	0.14	ug/m3			03/20/14 21:45	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/20/14 21:45	1
Dichlorodifluoromethane	2.6	J	0.99	0.34	ug/m3			03/20/14 21:45	1
Ethanol	20	J	3.8	3.8	ug/m3			03/20/14 21:45	1
Ethylbenzene	ND	UJ	0.87	0.30	ug/m3			03/20/14 21:45	1
Heptane	ND	UJ	2.0	0.19	ug/m3			03/20/14 21:45	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/20/14 21:45	1
Hexane	0.36	J	1.8	0.11	ug/m3			03/20/14 21:45	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/20/14 21:45	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/20/14 21:45	1
Isopropyl alcohol	19	J	4.9	0.23	ug/m3			03/20/14 21:45	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/20/14 21:45	1
Methylene Chloride	31	J	1.7	0.45	ug/m3			03/20/14 21:45	1
m-Xylene & p-Xylene	0.83	J	0.87	0.52	ug/m3			03/20/14 21:45	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/20/14 21:45	1
o-Xylene	0.33	J	0.87	0.26	ug/m3			03/20/14 21:45	1
Propene	1.4 ~~cn~~	J	0.86	0.13	ug/m3			03/20/14 21:45	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/20/14 21:45	1
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3			03/20/14 21:45	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 21:45	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/20/14 21:45	1
Toluene	0.83	J	0.75	0.45	ug/m3			03/20/14 21:45	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/20/14 21:45	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/20/14 21:45	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/20/14 21:45	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/20/14 21:45	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/20/14 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*03/20/14 21:45*	*1*

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 22:30	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/20/14 22:30	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 22:30	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 22:30	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 22:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 22:30	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 22:30	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 22:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 22:30	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 22:30	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 22:30	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 22:30	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 22:30	1
1,3-Butadiene	0.076	J	0.40	0.064	ppb v/v			03/20/14 22:30	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 22:30	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 22:30	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 22:30	1
2,2,4-Trimethylpentane	0.044	J	0.50	0.039	ppb v/v			03/20/14 22:30	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 22:30	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 22:30	1
2-Methylbutane	0.80		0.50	0.031	ppb v/v			03/20/14 22:30	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 22:30	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 22:30	1
4-Methyl-2-pentanone (MIBK)	0.054	J	0.50	0.045	ppb v/v			03/20/14 22:30	1
Acetone	2.6	J	5.0	1.4	ppb v/v			03/20/14 22:30	1
Benzene	0.18	J	0.20	0.056	ppb v/v			03/20/14 22:30	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 22:30	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 22:30	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 22:30	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 22:30	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 22:30	1
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v			03/20/14 22:30	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 22:30	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 22:30	1
Chloroform	0.098	J	0.20	0.038	ppb v/v			03/20/14 22:30	1
Chloromethane	0.41	J	0.50	0.16	ppb v/v			03/20/14 22:30	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 22:30	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 22:30	1
Cyclohexane	0.046	J	0.50	0.040	ppb v/v			03/20/14 22:30	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 22:30	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/20/14 22:30	1
Ethanol	13		2.0	2.0	ppb v/v			03/20/14 22:30	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 22:30	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 22:30	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 22:30	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/20/14 22:30	1

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 22:30	1
Isopropyl alcohol	8.8	J	2.0	0.094	ppb v/v			03/20/14 22:30	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 22:30	1
Methylene Chloride	1.6	J	0.50	0.13	ppb v/v			03/20/14 22:30	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 22:30	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 22:30	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 22:30	1
Propene	0.92	~~on~~ J	0.50	0.077	ppb v/v			03/20/14 22:30	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 22:30	1
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v			03/20/14 22:30	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 22:30	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 22:30	1
Toluene	0.16	J	0.20	0.12	ppb v/v			03/20/14 22:30	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 22:30	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 22:30	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 22:30	1
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v			03/20/14 22:30	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 22:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 22:30	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/20/14 22:30	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 22:30	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 22:30	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 22:30	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 22:30	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 22:30	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 22:30	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 22:30	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 22:30	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 22:30	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 22:30	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 22:30	1
1,3-Butadiene	0.17	J	0.88	0.14	ug/m3			03/20/14 22:30	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 22:30	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 22:30	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 22:30	1
2,2,4-Trimethylpentane	0.21	J	2.3	0.18	ug/m3			03/20/14 22:30	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 22:30	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 22:30	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 22:30	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/20/14 22:30	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 22:30	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 22:30	1
4-Methyl-2-pentanone (MIBK)	0.22	J	2.0	0.18	ug/m3			03/20/14 22:30	1
Acetone	6.2	J	12	3.3	ug/m3			03/20/14 22:30	1

Client Sample ID: PCV-IA3FD-B17
Date Collected: 03/14/14 16:08
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.57	J	0.64	0.18	ug/m3			03/20/14 22:30	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 22:30	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 22:30	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 22:30	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 22:30	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 22:30	1
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/20/14 22:30	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 22:30	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 22:30	1
Chloroform	0.48	J	0.98	0.19	ug/m3			03/20/14 22:30	1
Chloromethane	0.84	J	1.0	0.33	ug/m3			03/20/14 22:30	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 22:30	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 22:30	1
Cyclohexane	0.16	J	1.7	0.14	ug/m3			03/20/14 22:30	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 22:30	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 22:30	1
Ethanol	24		3.8	3.8	ug/m3			03/20/14 22:30	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 22:30	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 22:30	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 22:30	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/20/14 22:30	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 22:30	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 22:30	1
Isopropyl alcohol	22	J	4.9	0.23	ug/m3			03/20/14 22:30	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 22:30	1
Methylene Chloride	5.7	J	1.7	0.45	ug/m3			03/20/14 22:30	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 22:30	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 22:30	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 22:30	1
Propene	1.6	~~or~~ J	0.86	0.13	ug/m3			03/20/14 22:30	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 22:30	1
Tetrachloroethene	0.36	J	1.4	0.27	ug/m3			03/20/14 22:30	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 22:30	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 22:30	1
Toluene	0.60	J	0.75	0.45	ug/m3			03/20/14 22:30	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 22:30	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 22:30	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 22:30	1
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3			03/20/14 22:30	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/20/14 22:30*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Client Sample ID: PCV-IA3-B17
Date Collected: 03/14/14 13:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/20/14 23:16	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/20/14 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.083	J	0.20	0.031	ppb v/v			03/20/14 23:16	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/20/14 23:16	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/20/14 23:16	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/20/14 23:16	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/20/14 23:16	1
1,2,4-Trimethylbenzene	ND	UJ	0.20	0.063	ppb v/v			03/20/14 23:16	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/20/14 23:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/20/14 23:16	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/20/14 23:16	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/20/14 23:16	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/20/14 23:16	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 23:16	1
1,3-Butadiene	0.10	J	0.40	0.064	ppb v/v			03/20/14 23:16	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/20/14 23:16	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/20/14 23:16	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/20/14 23:16	1
2,2,4-Trimethylpentane	0.051	J	0.50	0.039	ppb v/v			03/20/14 23:16	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 23:16	1
2-Butanone (MEK)	0.43	J	1.0	0.20	ppb v/v			03/20/14 23:16	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/20/14 23:16	1
2-Methylbutane	0.97	J	0.50	0.031	ppb v/v			03/20/14 23:16	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 23:16	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/20/14 23:16	1
4-Methyl-2-pentanone (MIBK)	0.059	J	0.50	0.045	ppb v/v			03/20/14 23:16	1
Acetone	5.0	J	5.0	1.4	ppb v/v			03/20/14 23:16	1
Benzene	0.24	J	0.20	0.056	ppb v/v			03/20/14 23:16	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/20/14 23:16	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/20/14 23:16	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/20/14 23:16	1
Bromomethane	0.047	J	0.20	0.032	ppb v/v			03/20/14 23:16	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/20/14 23:16	1
Carbon tetrachloride	0.088	J	0.20	0.038	ppb v/v			03/20/14 23:16	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/20/14 23:16	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/20/14 23:16	1
Chloroform	0.085	J	0.20	0.038	ppb v/v			03/20/14 23:16	1
Chloromethane	0.51	J	0.50	0.16	ppb v/v			03/20/14 23:16	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/20/14 23:16	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/20/14 23:16	1
Cyclohexane	ND	UJ	0.50	0.040	ppb v/v			03/20/14 23:16	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/20/14 23:16	1
Dichlorodifluoromethane	0.51	J	0.20	0.068	ppb v/v			03/20/14 23:16	1
Ethanol	12	J	2.0	2.0	ppb v/v			03/20/14 23:16	1
Ethylbenzene	ND	UJ	0.20	0.068	ppb v/v			03/20/14 23:16	1
Heptane	0.060	J	0.50	0.047	ppb v/v			03/20/14 23:16	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/20/14 23:16	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/20/14 23:16	1

Client Sample ID: PCV-IA3-B17
Date Collected: 03/14/14 13:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/20/14 23:16	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/20/14 23:16	1
Isopropyl alcohol	5.4	J	2.0	0.094	ppb v/v			03/20/14 23:16	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/20/14 23:16	1
Methylene Chloride	3.1	J	0.50	0.13	ppb v/v			03/20/14 23:16	1
m-Xylene & p-Xylene	ND	UJ	0.20	0.12	ppb v/v			03/20/14 23:16	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/20/14 23:16	1
o-Xylene	ND	UJ	0.20	0.061	ppb v/v			03/20/14 23:16	1
Propene	1.2	~~on~~ J	0.50	0.077	ppb v/v			03/20/14 23:16	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/20/14 23:16	1
Tetrachloroethene	0.061	J	0.20	0.040	ppb v/v			03/20/14 23:16	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/20/14 23:16	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/20/14 23:16	1
Toluene	0.28	J	0.20	0.12	ppb v/v			03/20/14 23:16	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/20/14 23:16	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/20/14 23:16	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/20/14 23:16	1
Trichlorofluoromethane	0.30	J	0.20	0.024	ppb v/v			03/20/14 23:16	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/20/14 23:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/20/14 23:16	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/20/14 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	J	1.5	0.24	ug/m3			03/20/14 23:16	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/20/14 23:16	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/20/14 23:16	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/20/14 23:16	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/20/14 23:16	1
1,2,4-Trimethylbenzene	ND	UJ	0.98	0.31	ug/m3			03/20/14 23:16	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/20/14 23:16	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/20/14 23:16	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/20/14 23:16	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/20/14 23:16	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/20/14 23:16	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/20/14 23:16	1
1,3-Butadiene	0.22	J	0.88	0.14	ug/m3			03/20/14 23:16	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/20/14 23:16	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/20/14 23:16	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/20/14 23:16	1
2,2,4-Trimethylpentane	0.24	J	2.3	0.18	ug/m3			03/20/14 23:16	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/20/14 23:16	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/20/14 23:16	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/20/14 23:16	1
2-Methylbutane	2.8	J	1.5	0.091	ug/m3			03/20/14 23:16	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/20/14 23:16	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/20/14 23:16	1
4-Methyl-2-pentanone (MIBK)	0.24	J	2.0	0.18	ug/m3			03/20/14 23:16	1
Acetone	12	J	12	3.3	ug/m3			03/20/14 23:16	1

Client Sample ID: PCV-IA3-B17
Date Collected: 03/14/14 13:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.76	J	0.64	0.18	ug/m3			03/20/14 23:16	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/20/14 23:16	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/20/14 23:16	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/20/14 23:16	1
Bromomethane	0.18	J	0.78	0.12	ug/m3			03/20/14 23:16	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/20/14 23:16	1
Carbon tetrachloride	0.56	J	1.3	0.24	ug/m3			03/20/14 23:16	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/20/14 23:16	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/20/14 23:16	1
Chloroform	0.41	J	0.98	0.19	ug/m3			03/20/14 23:16	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/20/14 23:16	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/20/14 23:16	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/20/14 23:16	1
Cyclohexane	ND	UJ	1.7	0.14	ug/m3			03/20/14 23:16	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/20/14 23:16	1
Dichlorodifluoromethane	2.5	J	0.99	0.34	ug/m3			03/20/14 23:16	1
Ethanol	23	J	3.8	3.8	ug/m3			03/20/14 23:16	1
Ethylbenzene	ND	UJ	0.87	0.30	ug/m3			03/20/14 23:16	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/20/14 23:16	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/20/14 23:16	1
Hexane	0.44	J	1.8	0.11	ug/m3			03/20/14 23:16	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/20/14 23:16	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/20/14 23:16	1
Isopropyl alcohol	13	J	4.9	0.23	ug/m3			03/20/14 23:16	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/20/14 23:16	1
Methylene Chloride	11	J	1.7	0.45	ug/m3			03/20/14 23:16	1
m-Xylene & p-Xylene	ND	UJ	0.87	0.52	ug/m3			03/20/14 23:16	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/20/14 23:16	1
o-Xylene	ND	UJ	0.87	0.26	ug/m3			03/20/14 23:16	1
Propene	2.0 ~~or~~	J	0.86	0.13	ug/m3			03/20/14 23:16	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/20/14 23:16	1
Tetrachloroethene	0.41	J	1.4	0.27	ug/m3			03/20/14 23:16	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/20/14 23:16	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/20/14 23:16	1
Toluene	1.0	J	0.75	0.45	ug/m3			03/20/14 23:16	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/20/14 23:16	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/20/14 23:16	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/20/14 23:16	1
Trichlorofluoromethane	1.7	J	1.1	0.13	ug/m3			03/20/14 23:16	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/20/14 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/20/14 23:16*	*1*

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/21/14 00:01	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/21/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/21/14 00:01	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/21/14 00:01	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/21/14 00:01	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/21/14 00:01	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/21/14 00:01	1
1,2,4-Trimethylbenzene	ND	UJ	0.20	0.063	ppb v/v			03/21/14 00:01	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/21/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/21/14 00:01	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/21/14 00:01	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/21/14 00:01	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/21/14 00:01	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 00:01	1
1,3-Butadiene	ND	UJ	0.40	0.064	ppb v/v			03/21/14 00:01	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 00:01	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/21/14 00:01	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/21/14 00:01	1
2,2,4-Trimethylpentane	ND	UJ	0.50	0.039	ppb v/v			03/21/14 00:01	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 00:01	1
2-Butanone (MEK)	ND	UJ	1.0	0.20	ppb v/v			03/21/14 00:01	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/21/14 00:01	1
2-Methylbutane	0.88	J	0.50	0.031	ppb v/v			03/21/14 00:01	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 00:01	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/21/14 00:01	1
4-Methyl-2-pentanone (MIBK)	0.048	J	0.50	0.045	ppb v/v			03/21/14 00:01	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/21/14 00:01	1
Benzene	0.16	J	0.20	0.056	ppb v/v			03/21/14 00:01	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/21/14 00:01	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/21/14 00:01	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/21/14 00:01	1
Bromomethane	ND	UJ	0.20	0.032	ppb v/v			03/21/14 00:01	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/21/14 00:01	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/21/14 00:01	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/21/14 00:01	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/21/14 00:01	1
Chloroform	0.18	J	0.20	0.038	ppb v/v			03/21/14 00:01	1
Chloromethane	0.41	J	0.50	0.16	ppb v/v			03/21/14 00:01	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/21/14 00:01	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/21/14 00:01	1
Cyclohexane	ND	UJ	0.50	0.040	ppb v/v			03/21/14 00:01	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/21/14 00:01	1
Dichlorodifluoromethane	0.44	J	0.20	0.068	ppb v/v			03/21/14 00:01	1
Ethanol	9.9	J	2.0	2.0	ppb v/v			03/21/14 00:01	1
Ethylbenzene	ND	UJ	0.20	0.068	ppb v/v			03/21/14 00:01	1
Heptane	ND	UJ	0.50	0.047	ppb v/v			03/21/14 00:01	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/21/14 00:01	1
Hexane	0.081	J	0.50	0.032	ppb v/v			03/21/14 00:01	1

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 00:01	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/21/14 00:01	1
Isopropyl alcohol	18	J	2.0	0.094	ppb v/v			03/21/14 00:01	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/21/14 00:01	1
Methylene Chloride	1.3	J	0.50	0.13	ppb v/v			03/21/14 00:01	1
m-Xylene & p-Xylene	0.13	J	0.20	0.12	ppb v/v			03/21/14 00:01	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/21/14 00:01	1
o-Xylene	ND	UJ	0.20	0.061	ppb v/v			03/21/14 00:01	1
Propene	0.76	~~cn~~ J	0.50	0.077	ppb v/v			03/21/14 00:01	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/21/14 00:01	1
Tetrachloroethene	0.057	J	0.20	0.040	ppb v/v			03/21/14 00:01	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 00:01	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/21/14 00:01	1
Toluene	0.18	J	0.20	0.12	ppb v/v			03/21/14 00:01	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/21/14 00:01	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/21/14 00:01	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/21/14 00:01	1
Trichlorofluoromethane	0.26	J	0.20	0.024	ppb v/v			03/21/14 00:01	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/21/14 00:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/21/14 00:01	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/21/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/21/14 00:01	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/21/14 00:01	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/21/14 00:01	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/21/14 00:01	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/21/14 00:01	1
1,2,4-Trimethylbenzene	ND	UJ	0.98	0.31	ug/m3			03/21/14 00:01	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/21/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/21/14 00:01	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/21/14 00:01	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/21/14 00:01	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/21/14 00:01	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/21/14 00:01	1
1,3-Butadiene	ND	UJ	0.88	0.14	ug/m3			03/21/14 00:01	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/21/14 00:01	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/21/14 00:01	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/21/14 00:01	1
2,2,4-Trimethylpentane	ND	UJ	2.3	0.18	ug/m3			03/21/14 00:01	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/21/14 00:01	1
2-Butanone (MEK)	ND	UJ	2.9	0.59	ug/m3			03/21/14 00:01	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/21/14 00:01	1
2-Methylbutane	2.6	J	1.5	0.091	ug/m3			03/21/14 00:01	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 00:01	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/21/14 00:01	1
4-Methyl-2-pentanone (MIBK)	0.20	J	2.0	0.18	ug/m3			03/21/14 00:01	1
Acetone	5.8	J	12	3.3	ug/m3			03/21/14 00:01	1

Client Sample ID: PCV-IA4-B17
Date Collected: 03/14/14 15:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	J	0.64	0.18	ug/m3			03/21/14 00:01	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/21/14 00:01	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/21/14 00:01	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/21/14 00:01	1
Bromomethane	ND	UJ	0.78	0.12	ug/m3			03/21/14 00:01	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/21/14 00:01	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/21/14 00:01	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/21/14 00:01	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/21/14 00:01	1
Chloroform	0.90	J	0.98	0.19	ug/m3			03/21/14 00:01	1
Chloromethane	0.85	J	1.0	0.33	ug/m3			03/21/14 00:01	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/21/14 00:01	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/21/14 00:01	1
Cyclohexane	ND	UJ	1.7	0.14	ug/m3			03/21/14 00:01	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/21/14 00:01	1
Dichlorodifluoromethane	2.2	J	0.99	0.34	ug/m3			03/21/14 00:01	1
Ethanol	19	J	3.8	3.8	ug/m3			03/21/14 00:01	1
Ethylbenzene	ND	UJ	0.87	0.30	ug/m3			03/21/14 00:01	1
Heptane	ND	UJ	2.0	0.19	ug/m3			03/21/14 00:01	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/21/14 00:01	1
Hexane	0.29	J	1.8	0.11	ug/m3			03/21/14 00:01	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/21/14 00:01	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/21/14 00:01	1
Isopropyl alcohol	45	J	4.9	0.23	ug/m3			03/21/14 00:01	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/21/14 00:01	1
Methylene Chloride	4.6	J	1.7	0.45	ug/m3			03/21/14 00:01	1
m-Xylene & p-Xylene	0.57	J	0.87	0.52	ug/m3			03/21/14 00:01	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/21/14 00:01	1
o-Xylene	ND	UJ	0.87	0.26	ug/m3			03/21/14 00:01	1
Propene	1.3 ~~ca~~	J	0.86	0.13	ug/m3			03/21/14 00:01	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/21/14 00:01	1
Tetrachloroethene	0.39	J	1.4	0.27	ug/m3			03/21/14 00:01	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 00:01	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/21/14 00:01	1
Toluene	0.67	J	0.75	0.45	ug/m3			03/21/14 00:01	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/21/14 00:01	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/21/14 00:01	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/21/14 00:01	1
Trichlorofluoromethane	1.5	J	1.1	0.13	ug/m3			03/21/14 00:01	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/21/14 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/21/14 00:01*	*1*

Client Sample ID: PCV-IA5-B17
Date Collected: 03/14/14 15:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 00:47	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	J	0.20	0.031	ppb v/v			03/21/14 00:47	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 00:47	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 00:47	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 00:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 00:47	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 00:47	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 00:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 00:47	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 00:47	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 00:47	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 00:47	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:47	1
1,3-Butadiene	0.087	J	0.40	0.064	ppb v/v			03/21/14 00:47	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 00:47	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 00:47	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 00:47	1
2,2,4-Trimethylpentane	0.040	J	0.50	0.039	ppb v/v			03/21/14 00:47	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
2-Butanone (MEK)	0.31	J	1.0	0.20	ppb v/v			03/21/14 00:47	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 00:47	1
2-Methylbutane	0.88		0.50	0.031	ppb v/v			03/21/14 00:47	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 00:47	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 00:47	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v			03/21/14 00:47	1
Acetone	4.3	J	5.0	1.4	ppb v/v			03/21/14 00:47	1
Benzene	0.26		0.20	0.056	ppb v/v			03/21/14 00:47	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 00:47	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 00:47	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 00:47	1
Bromomethane	0.034	J	0.20	0.032	ppb v/v			03/21/14 00:47	1
Carbon disulfide	0.10	J	0.50	0.031	ppb v/v			03/21/14 00:47	1
Carbon tetrachloride	0.084	J	0.20	0.038	ppb v/v			03/21/14 00:47	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 00:47	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 00:47	1
Chloroform	0.60		0.20	0.038	ppb v/v			03/21/14 00:47	1
Chloromethane	0.73		0.50	0.16	ppb v/v			03/21/14 00:47	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 00:47	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 00:47	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 00:47	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 00:47	1
Dichlorodifluoromethane	0.49		0.20	0.068	ppb v/v			03/21/14 00:47	1
Ethanol	24		2.0	2.0	ppb v/v			03/21/14 00:47	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 00:47	1
Heptane	0.055	J	0.50	0.047	ppb v/v			03/21/14 00:47	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 00:47	1
Hexane	0.10	J	0.50	0.032	ppb v/v			03/21/14 00:47	1

Client Sample ID: PCV-IA5-B17
Date Collected: 03/14/14 15:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 00:47	1
Isopropyl alcohol	3.1		2.0	0.094	ppb v/v			03/21/14 00:47	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 00:47	1
Methylene Chloride	1.7		0.50	0.13	ppb v/v			03/21/14 00:47	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 00:47	1
Naphthalene	0.16	J	0.50	0.090	ppb v/v			03/21/14 00:47	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 00:47	1
Propene	1.2	~~on~~ J	0.50	0.077	ppb v/v			03/21/14 00:47	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 00:47	1
Tetrachloroethene	0.055	J	0.20	0.040	ppb v/v			03/21/14 00:47	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 00:47	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 00:47	1
Toluene	0.22		0.20	0.12	ppb v/v			03/21/14 00:47	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 00:47	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 00:47	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 00:47	1
Trichlorofluoromethane	0.29		0.20	0.024	ppb v/v			03/21/14 00:47	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 00:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 00:47	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/21/14 00:47	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 00:47	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 00:47	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 00:47	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 00:47	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 00:47	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 00:47	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 00:47	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 00:47	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 00:47	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 00:47	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 00:47	1
1,3-Butadiene	0.19	J	0.88	0.14	ug/m3			03/21/14 00:47	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 00:47	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 00:47	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 00:47	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/21/14 00:47	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 00:47	1
2-Butanone (MEK)	0.92	J	2.9	0.59	ug/m3			03/21/14 00:47	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 00:47	1
2-Methylbutane	2.6		1.5	0.091	ug/m3			03/21/14 00:47	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 00:47	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 00:47	1
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3			03/21/14 00:47	1
Acetone	10	J	12	3.3	ug/m3			03/21/14 00:47	1

Client Sample ID: PCV-IA5-B17
Date Collected: 03/14/14 15:55
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-14
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.82		0.64	0.18	ug/m3			03/21/14 00:47	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 00:47	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 00:47	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 00:47	1
Bromomethane	0.13	J	0.78	0.12	ug/m3			03/21/14 00:47	1
Carbon disulfide	0.31	J	1.6	0.097	ug/m3			03/21/14 00:47	1
Carbon tetrachloride	0.53	J	1.3	0.24	ug/m3			03/21/14 00:47	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 00:47	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 00:47	1
Chloroform	2.9		0.98	0.19	ug/m3			03/21/14 00:47	1
Chloromethane	1.5		1.0	0.33	ug/m3			03/21/14 00:47	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 00:47	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 00:47	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 00:47	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 00:47	1
Dichlorodifluoromethane	2.4		0.99	0.34	ug/m3			03/21/14 00:47	1
Ethanol	44		3.8	3.8	ug/m3			03/21/14 00:47	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 00:47	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/21/14 00:47	1
Hexachlorobutadiene	ND	✓	11	0.83	ug/m3			03/21/14 00:47	1
Hexane	0.36	J	1.8	0.11	ug/m3			03/21/14 00:47	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 00:47	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 00:47	1
Isopropyl alcohol	7.7		4.9	0.23	ug/m3			03/21/14 00:47	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 00:47	1
Methylene Chloride	5.9		1.7	0.45	ug/m3			03/21/14 00:47	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 00:47	1
Naphthalene	0.86	J ✓	2.6	0.47	ug/m3			03/21/14 00:47	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 00:47	1
Propene	2.0	~~cn~~ J	0.86	0.13	ug/m3			03/21/14 00:47	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 00:47	1
Tetrachloroethene	0.37	J	1.4	0.27	ug/m3			03/21/14 00:47	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 00:47	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 00:47	1
Toluene	0.84		0.75	0.45	ug/m3			03/21/14 00:47	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 00:47	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 00:47	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 00:47	1
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3			03/21/14 00:47	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/21/14 00:47*	*1*

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/21/14 01:33	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/21/14 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v			03/21/14 01:33	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/21/14 01:33	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/21/14 01:33	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/21/14 01:33	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/21/14 01:33	1
1,2,4-Trimethylbenzene	0.074	J	0.20	0.063	ppb v/v			03/21/14 01:33	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/21/14 01:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/21/14 01:33	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/21/14 01:33	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/21/14 01:33	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/21/14 01:33	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 01:33	1
1,3-Butadiene	0.18	J	0.40	0.064	ppb v/v			03/21/14 01:33	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 01:33	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/21/14 01:33	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/21/14 01:33	1
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v			03/21/14 01:33	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 01:33	1
2-Butanone (MEK)	ND	UJ	1.0	0.20	ppb v/v			03/21/14 01:33	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/21/14 01:33	1
2-Methylbutane	0.81	J	0.50	0.031	ppb v/v			03/21/14 01:33	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 01:33	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/21/14 01:33	1
4-Methyl-2-pentanone (MIBK)	0.045	J	0.50	0.045	ppb v/v			03/21/14 01:33	1
Acetone	4.5	J	5.0	1.4	ppb v/v			03/21/14 01:33	1
Benzene	0.22	J	0.20	0.056	ppb v/v			03/21/14 01:33	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/21/14 01:33	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/21/14 01:33	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/21/14 01:33	1
Bromomethane	ND	UJ	0.20	0.032	ppb v/v			03/21/14 01:33	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/21/14 01:33	1
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v			03/21/14 01:33	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/21/14 01:33	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/21/14 01:33	1
Chloroform	0.071	J	0.20	0.038	ppb v/v			03/21/14 01:33	1
Chloromethane	0.55	J	0.50	0.16	ppb v/v			03/21/14 01:33	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/21/14 01:33	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/21/14 01:33	1
Cyclohexane	0.053	J	0.50	0.040	ppb v/v			03/21/14 01:33	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/21/14 01:33	1
Dichlorodifluoromethane	0.49	J	0.20	0.068	ppb v/v			03/21/14 01:33	1
~~Ethanol~~	~~230~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/21/14 01:33~~	~~1~~
Ethylbenzene	2.2	J	0.20	0.068	ppb v/v			03/21/14 01:33	1
Heptane	0.073	J	0.50	0.047	ppb v/v			03/21/14 01:33	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/21/14 01:33	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/21/14 01:33	1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 01:33	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/21/14 01:33	1
Isopropyl alcohol	5.9	J	2.0	0.094	ppb v/v			03/21/14 01:33	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/21/14 01:33	1
Methylene Chloride	1.2	J	0.50	0.13	ppb v/v			03/21/14 01:33	1
m-Xylene & p-Xylene	12	J	0.20	0.12	ppb v/v			03/21/14 01:33	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/21/14 01:33	1
o-Xylene	3.3	J	0.20	0.061	ppb v/v			03/21/14 01:33	1
Propene	1.4 ~~on~~	J	0.50	0.077	ppb v/v			03/21/14 01:33	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/21/14 01:33	1
Tetrachloroethene	0.047	J	0.20	0.040	ppb v/v			03/21/14 01:33	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 01:33	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/21/14 01:33	1
Toluene	3.3	J	0.20	0.12	ppb v/v			03/21/14 01:33	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/21/14 01:33	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/21/14 01:33	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/21/14 01:33	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/21/14 01:33	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/21/14 01:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/21/14 01:33	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/21/14 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3			03/21/14 01:33	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/21/14 01:33	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/21/14 01:33	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/21/14 01:33	1
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/21/14 01:33	1
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/21/14 01:33	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/21/14 01:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/21/14 01:33	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/21/14 01:33	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/21/14 01:33	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/21/14 01:33	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/21/14 01:33	1
1,3-Butadiene	0.41	J	0.88	0.14	ug/m3			03/21/14 01:33	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/21/14 01:33	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/21/14 01:33	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/21/14 01:33	1
2,2,4-Trimethylpentane	0.81	J	2.3	0.18	ug/m3			03/21/14 01:33	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/21/14 01:33	1
2-Butanone (MEK)	ND	UJ	2.9	0.59	ug/m3			03/21/14 01:33	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/21/14 01:33	1
2-Methylbutane	2.4	J	1.5	0.091	ug/m3			03/21/14 01:33	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 01:33	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/21/14 01:33	1
4-Methyl-2-pentanone (MIBK)	0.19	J	2.0	0.18	ug/m3			03/21/14 01:33	1
Acetone	11	J	12	3.3	ug/m3			03/21/14 01:33	1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.71	J	0.64	0.18	ug/m3			03/21/14 01:33	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/21/14 01:33	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/21/14 01:33	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/21/14 01:33	1
Bromomethane	ND	UJ	0.78	0.12	ug/m3			03/21/14 01:33	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/21/14 01:33	1
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3			03/21/14 01:33	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/21/14 01:33	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/21/14 01:33	1
Chloroform	0.35	J	0.98	0.19	ug/m3			03/21/14 01:33	1
Chloromethane	1.1	J	1.0	0.33	ug/m3			03/21/14 01:33	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/21/14 01:33	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/21/14 01:33	1
Cyclohexane	0.18	J	1.7	0.14	ug/m3			03/21/14 01:33	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/21/14 01:33	1
Dichlorodifluoromethane	2.4	J	0.99	0.34	ug/m3			03/21/14 01:33	1
~~Ethanol~~	~~430~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/21/14 01:33~~	~~1~~
Ethylbenzene	9.6	J	0.87	0.30	ug/m3			03/21/14 01:33	1
Heptane	0.30	J	2.0	0.19	ug/m3			03/21/14 01:33	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/21/14 01:33	1
Hexane	0.39	J	1.8	0.11	ug/m3			03/21/14 01:33	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/21/14 01:33	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/21/14 01:33	1
Isopropyl alcohol	14	J	4.9	0.23	ug/m3			03/21/14 01:33	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/21/14 01:33	1
Methylene Chloride	4.3	J	1.7	0.45	ug/m3			03/21/14 01:33	1
m-Xylene & p-Xylene	52	J	0.87	0.52	ug/m3			03/21/14 01:33	1
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/21/14 01:33	1
o-Xylene	14	J	0.87	0.26	ug/m3			03/21/14 01:33	1
Propene	2.4	~~on~~ J	0.86	0.13	ug/m3			03/21/14 01:33	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/21/14 01:33	1
Tetrachloroethene	0.32	J	1.4	0.27	ug/m3			03/21/14 01:33	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 01:33	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/21/14 01:33	1
Toluene	12	J	0.75	0.45	ug/m3			03/21/14 01:33	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/21/14 01:33	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/21/14 01:33	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/21/14 01:33	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/21/14 01:33	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/21/14 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 01:33*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	280	J	4.0	4.0	ppb v/v			03/21/14 20:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	520	J	7.5	7.5	ug/m3			03/21/14 20:00	1

Client Sample ID: PCV-IA1-B9
Date Collected: 03/14/14 16:19
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-15
Matrix: Air

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/21/14 20:00	1

Client Sample ID: PCV-IA1FD-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 02:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.058	J	0.20	0.031	ppb v/v			03/21/14 02:19	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 02:19	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 02:19	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 02:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 02:19	1
1,2,4-Trimethylbenzene	0.092	J	0.20	0.063	ppb v/v			03/21/14 02:19	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 02:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 02:19	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 02:19	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 02:19	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 02:19	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 02:19	1
1,3-Butadiene	0.17	J	0.40	0.064	ppb v/v			03/21/14 02:19	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 02:19	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 02:19	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 02:19	1
2,2,4-Trimethylpentane	0.20	J	0.50	0.039	ppb v/v			03/21/14 02:19	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 02:19	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 02:19	1
2-Methylbutane	0.77		0.50	0.031	ppb v/v			03/21/14 02:19	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 02:19	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 02:19	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	0.50	0.045	ppb v/v			03/21/14 02:19	1
Acetone	3.3	J	5.0	1.4	ppb v/v			03/21/14 02:19	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/21/14 02:19	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 02:19	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 02:19	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 02:19	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 02:19	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 02:19	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/21/14 02:19	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 02:19	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 02:19	1
Chloroform	0.064	J	0.20	0.038	ppb v/v			03/21/14 02:19	1
Chloromethane	0.48	J	0.50	0.16	ppb v/v			03/21/14 02:19	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 02:19	1

Client Sample ID: PCV-IA1FD-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 02:19	1
Cyclohexane	0.045	J	0.50	0.040	ppb v/v			03/21/14 02:19	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 02:19	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/21/14 02:19	1
~~Ethanol~~	~~200~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/21/14 02:19~~	~~1~~
Ethylbenzene	2.2		0.20	0.068	ppb v/v			03/21/14 02:19	1
Heptane	0.063	J	0.50	0.047	ppb v/v			03/21/14 02:19	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 02:19	1
Hexane	0.094	J	0.50	0.032	ppb v/v			03/21/14 02:19	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 02:19	1
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v			03/21/14 02:19	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 02:19	1
Methylene Chloride	0.99		0.50	0.13	ppb v/v			03/21/14 02:19	1
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v			03/21/14 02:19	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 02:19	1
o-Xylene	3.2		0.20	0.061	ppb v/v			03/21/14 02:19	1
Propene	1.3	~~en~~ J	0.50	0.077	ppb v/v			03/21/14 02:19	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 02:19	1
Tetrachloroethene	0.051	J	0.20	0.040	ppb v/v			03/21/14 02:19	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 02:19	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 02:19	1
Toluene	4.5	J	0.20	0.12	ppb v/v			03/21/14 02:19	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 02:19	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 02:19	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 02:19	1
Trichlorofluoromethane	0.24		0.20	0.024	ppb v/v			03/21/14 02:19	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 02:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 02:19	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	J	1.5	0.24	ug/m3			03/21/14 02:19	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 02:19	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 02:19	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 02:19	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 02:19	1
1,2,4-Trimethylbenzene	0.45	J	0.98	0.31	ug/m3			03/21/14 02:19	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 02:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 02:19	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 02:19	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 02:19	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 02:19	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 02:19	1
1,3-Butadiene	0.37	J	0.88	0.14	ug/m3			03/21/14 02:19	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 02:19	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 02:19	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 02:19	1

Client Sample ID: PCV-IA1FD-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.93	J	2.3	0.18	ug/m3			03/21/14 02:19	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 02:19	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 02:19	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 02:19	1
2-Methylbutane	2.3		1.5	0.091	ug/m3			03/21/14 02:19	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 02:19	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 02:19	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	2.0	0.18	ug/m3			03/21/14 02:19	1
Acetone	7.9	J	12	3.3	ug/m3			03/21/14 02:19	1
Benzene	0.62	J	0.64	0.18	ug/m3			03/21/14 02:19	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 02:19	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 02:19	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 02:19	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 02:19	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 02:19	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/21/14 02:19	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 02:19	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 02:19	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/21/14 02:19	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/21/14 02:19	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 02:19	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 02:19	1
Cyclohexane	0.15	J	1.7	0.14	ug/m3			03/21/14 02:19	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 02:19	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/21/14 02:19	1
~~Ethanol~~	~~390~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/21/14 02:19~~	~~1~~
Ethylbenzene	9.7		0.87	0.30	ug/m3			03/21/14 02:19	1
Heptane	0.26	J	2.0	0.19	ug/m3			03/21/14 02:19	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 02:19	1
Hexane	0.33	J	1.8	0.11	ug/m3			03/21/14 02:19	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 02:19	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 02:19	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/21/14 02:19	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 02:19	1
Methylene Chloride	3.4		1.7	0.45	ug/m3			03/21/14 02:19	1
m-Xylene & p-Xylene	50		0.87	0.52	ug/m3			03/21/14 02:19	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 02:19	1
o-Xylene	14		0.87	0.26	ug/m3			03/21/14 02:19	1
Propene	2.3	~~cn~~ J	0.86	0.13	ug/m3			03/21/14 02:19	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 02:19	1
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3			03/21/14 02:19	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 02:19	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 02:19	1
Toluene	17	J	0.75	0.45	ug/m3			03/21/14 02:19	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 02:19	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 02:19	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 02:19	1
Trichlorofluoromethane	1.3		1.1	0.13	ug/m3			03/21/14 02:19	1

Client Sample ID: PCV-IA1FD-B9

Lab Sample ID: 140-1060-16

Date Collected: 03/14/14 16:17
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/21/14 02:19*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	220		4.0	4.0	ppb v/v			03/24/14 17:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	410		7.5	7.5	ug/m3			03/24/14 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/24/14 17:39*	*1*

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Date Collected: 03/14/14 16:17
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	0.20	0.030	ppb v/v			03/21/14 03:04	1
1,1,2,2-Tetrachloroethane	ND	UJ	0.20	0.061	ppb v/v			03/21/14 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/21/14 03:04	1
1,1,2-Trichloroethane	ND	UJ	0.20	0.054	ppb v/v			03/21/14 03:04	1
1,1-Dichloroethane	ND	UJ	0.20	0.026	ppb v/v			03/21/14 03:04	1
1,1-Dichloroethene	ND	UJ	0.20	0.034	ppb v/v			03/21/14 03:04	1
1,2,4-Trichlorobenzene	ND	UJ	1.0	0.098	ppb v/v			03/21/14 03:04	1
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v			03/21/14 03:04	1
1,2-Dibromoethane (EDB)	ND	UJ	0.20	0.044	ppb v/v			03/21/14 03:04	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	0.20	0.032	ppb v/v			03/21/14 03:04	1
1,2-Dichlorobenzene	ND	UJ	0.20	0.070	ppb v/v			03/21/14 03:04	1
1,2-Dichloroethane	ND	UJ	0.20	0.047	ppb v/v			03/21/14 03:04	1
1,2-Dichloropropane	ND	UJ	0.20	0.052	ppb v/v			03/21/14 03:04	1
1,3,5-Trimethylbenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 03:04	1
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v			03/21/14 03:04	1
1,3-Dichlorobenzene	ND	UJ	0.20	0.065	ppb v/v			03/21/14 03:04	1
1,4-Dichlorobenzene	ND	UJ	0.20	0.064	ppb v/v			03/21/14 03:04	1
1,4-Dioxane	ND	UJ	0.50	0.080	ppb v/v			03/21/14 03:04	1
2,2,4-Trimethylpentane	0.087	J	0.50	0.039	ppb v/v			03/21/14 03:04	1
2,3-Dimethylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 03:04	1
2-Butanone (MEK)	ND	UJ	1.0	0.20	ppb v/v			03/21/14 03:04	1
2-Hexanone	ND	UJ	0.50	0.058	ppb v/v			03/21/14 03:04	1
2-Methylbutane	0.79	J	0.50	0.031	ppb v/v			03/21/14 03:04	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 03:04	1
4-Ethyltoluene	ND	UJ	0.40	0.066	ppb v/v			03/21/14 03:04	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	0.50	0.045	ppb v/v			03/21/14 03:04	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/21/14 03:04	1

Client Sample ID: PCV-IA2-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.21	J	0.20	0.056	ppb v/v			03/21/14 03:04	1
Benzyl chloride	ND	UJ	0.40	0.078	ppb v/v			03/21/14 03:04	1
Bromodichloromethane	ND	UJ	0.20	0.044	ppb v/v			03/21/14 03:04	1
Bromoform	ND	UJ	0.20	0.048	ppb v/v			03/21/14 03:04	1
Bromomethane	0.049	J	0.20	0.032	ppb v/v			03/21/14 03:04	1
Carbon disulfide	ND	UJ	0.50	0.031	ppb v/v			03/21/14 03:04	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/21/14 03:04	1
Chlorobenzene	ND	UJ	0.20	0.049	ppb v/v			03/21/14 03:04	1
Chloroethane	ND	UJ	0.20	0.035	ppb v/v			03/21/14 03:04	1
Chloroform	0.12	J	0.20	0.038	ppb v/v			03/21/14 03:04	1
Chloromethane	0.58	J	0.50	0.16	ppb v/v			03/21/14 03:04	1
cis-1,2-Dichloroethene	ND	UJ	0.20	0.060	ppb v/v			03/21/14 03:04	1
cis-1,3-Dichloropropene	ND	UJ	0.20	0.074	ppb v/v			03/21/14 03:04	1
Cyclohexane	ND	UJ	0.50	0.040	ppb v/v			03/21/14 03:04	1
Dibromochloromethane	ND	UJ	0.20	0.042	ppb v/v			03/21/14 03:04	1
Dichlorodifluoromethane	0.54	J	0.20	0.068	ppb v/v			03/21/14 03:04	1
Ethanol	45	J	2.0	2.0	ppb v/v			03/21/14 03:04	1
Ethylbenzene	17	J	0.20	0.068	ppb v/v			03/21/14 03:04	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/21/14 03:04	1
Hexachlorobutadiene	ND	UJ	1.0	0.078	ppb v/v			03/21/14 03:04	1
Hexane	0.086	J	0.50	0.032	ppb v/v			03/21/14 03:04	1
Indane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 03:04	1
Indene	ND	UJ	0.40	0.40	ppb v/v			03/21/14 03:04	1
Isopropyl alcohol	1.5	J	2.0	0.094	ppb v/v			03/21/14 03:04	1
Methyl tert-butyl ether	ND	UJ	1.0	0.17	ppb v/v			03/21/14 03:04	1
Methylene Chloride	0.57	J	0.50	0.13	ppb v/v			03/21/14 03:04	1
m-Xylene & p-Xylene	69	J	0.20	0.12	ppb v/v			03/21/14 03:04	1
Naphthalene	ND	UJ	0.50	0.090	ppb v/v			03/21/14 03:04	1
o-Xylene	24	J	0.20	0.061	ppb v/v			03/21/14 03:04	1
Propene	1.1 ~~cn~~	J	0.50	0.077	ppb v/v			03/21/14 03:04	1
Styrene	ND	UJ	0.20	0.058	ppb v/v			03/21/14 03:04	1
Tetrachloroethene	0.052	J	0.20	0.040	ppb v/v			03/21/14 03:04	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 03:04	1
Thiophene	ND	UJ	0.20	0.20	ppb v/v			03/21/14 03:04	1
Toluene	4.0	J	0.20	0.12	ppb v/v			03/21/14 03:04	1
trans-1,2-Dichloroethene	ND	UJ	0.20	0.050	ppb v/v			03/21/14 03:04	1
trans-1,3-Dichloropropene	ND	UJ	0.20	0.048	ppb v/v			03/21/14 03:04	1
Trichloroethene	ND	UJ	0.20	0.036	ppb v/v			03/21/14 03:04	1
Trichlorofluoromethane	0.29	J	0.20	0.024	ppb v/v			03/21/14 03:04	1
Vinyl chloride	ND	UJ	0.20	0.071	ppb v/v			03/21/14 03:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	UJ	1.1	0.16	ug/m3			03/21/14 03:04	1
1,1,2,2-Tetrachloroethane	ND	UJ	1.4	0.42	ug/m3			03/21/14 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/21/14 03:04	1
1,1,2-Trichloroethane	ND	UJ	1.1	0.29	ug/m3			03/21/14 03:04	1
1,1-Dichloroethane	ND	UJ	0.81	0.11	ug/m3			03/21/14 03:04	1
1,1-Dichloroethene	ND	UJ	0.79	0.13	ug/m3			03/21/14 03:04	1

Client Sample ID: PCV-IA2-B9
Date Collected: 03/14/14 16:17
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	UJ	7.4	0.73	ug/m3			03/21/14 03:04	1
1,2,4-Trimethylbenzene	0.62	J	0.98	0.31	ug/m3			03/21/14 03:04	1
1,2-Dibromoethane (EDB)	ND	UJ	1.5	0.34	ug/m3			03/21/14 03:04	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	UJ	1.4	0.22	ug/m3			03/21/14 03:04	1
1,2-Dichlorobenzene	ND	UJ	1.2	0.42	ug/m3			03/21/14 03:04	1
1,2-Dichloroethane	ND	UJ	0.81	0.19	ug/m3			03/21/14 03:04	1
1,2-Dichloropropane	ND	UJ	0.92	0.24	ug/m3			03/21/14 03:04	1
1,3,5-Trimethylbenzene	ND	UJ	0.98	0.32	ug/m3			03/21/14 03:04	1
1,3-Butadiene	0.29	J	0.88	0.14	ug/m3			03/21/14 03:04	1
1,3-Dichlorobenzene	ND	UJ	1.2	0.39	ug/m3			03/21/14 03:04	1
1,4-Dichlorobenzene	ND	UJ	1.2	0.38	ug/m3			03/21/14 03:04	1
1,4-Dioxane	ND	UJ	1.8	0.29	ug/m3			03/21/14 03:04	1
2,2,4-Trimethylpentane	0.41	J	2.3	0.18	ug/m3			03/21/14 03:04	1
2,3-Dimethylpentane	ND	UJ	0.82	0.82	ug/m3			03/21/14 03:04	1
2-Butanone (MEK)	ND	UJ	2.9	0.59	ug/m3			03/21/14 03:04	1
2-Hexanone	ND	UJ	2.0	0.24	ug/m3			03/21/14 03:04	1
2-Methylbutane	2.3	J	1.5	0.091	ug/m3			03/21/14 03:04	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 03:04	1
4-Ethyltoluene	ND	UJ	2.0	0.32	ug/m3			03/21/14 03:04	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	2.0	0.18	ug/m3			03/21/14 03:04	1
Acetone	5.8	J	12	3.3	ug/m3			03/21/14 03:04	1
Benzene	0.68	J	0.64	0.18	ug/m3			03/21/14 03:04	1
Benzyl chloride	ND	UJ	2.1	0.40	ug/m3			03/21/14 03:04	1
Bromodichloromethane	ND	UJ	1.3	0.29	ug/m3			03/21/14 03:04	1
Bromoform	ND	UJ	2.1	0.50	ug/m3			03/21/14 03:04	1
Bromomethane	0.19	J	0.78	0.12	ug/m3			03/21/14 03:04	1
Carbon disulfide	ND	UJ	1.6	0.097	ug/m3			03/21/14 03:04	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/21/14 03:04	1
Chlorobenzene	ND	UJ	0.92	0.23	ug/m3			03/21/14 03:04	1
Chloroethane	ND	UJ	0.53	0.092	ug/m3			03/21/14 03:04	1
Chloroform	0.58	J	0.98	0.19	ug/m3			03/21/14 03:04	1
Chloromethane	1.2	J	1.0	0.33	ug/m3			03/21/14 03:04	1
cis-1,2-Dichloroethene	ND	UJ	0.79	0.24	ug/m3			03/21/14 03:04	1
cis-1,3-Dichloropropene	ND	UJ	0.91	0.34	ug/m3			03/21/14 03:04	1
Cyclohexane	ND	UJ	1.7	0.14	ug/m3			03/21/14 03:04	1
Dibromochloromethane	ND	UJ	1.7	0.36	ug/m3			03/21/14 03:04	1
Dichlorodifluoromethane	2.7	J	0.99	0.34	ug/m3			03/21/14 03:04	1
Ethanol	86	J	3.8	3.8	ug/m3			03/21/14 03:04	1
Ethylbenzene	73	J	0.87	0.30	ug/m3			03/21/14 03:04	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/21/14 03:04	1
Hexachlorobutadiene	ND	UJ	11	0.83	ug/m3			03/21/14 03:04	1
Hexane	0.30	J	1.8	0.11	ug/m3			03/21/14 03:04	1
Indane	ND	UJ	0.97	0.97	ug/m3			03/21/14 03:04	1
Indene	ND	UJ	1.9	1.9	ug/m3			03/21/14 03:04	1
Isopropyl alcohol	3.6	J	4.9	0.23	ug/m3			03/21/14 03:04	1
Methyl tert-butyl ether	ND	UJ	3.6	0.61	ug/m3			03/21/14 03:04	1
Methylene Chloride	2.0	J	1.7	0.45	ug/m3			03/21/14 03:04	1
m-Xylene & p-Xylene	300	J	0.87	0.52	ug/m3			03/21/14 03:04	1

Client Sample ID: PCV-IA2-B9

Lab Sample ID: 140-1060-17

Date Collected: 03/14/14 16:17
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	UJ	2.6	0.47	ug/m3			03/21/14 03:04	1
o-Xylene	110	J	0.87	0.26	ug/m3			03/21/14 03:04	1
Propene	1.9	~~on~~ J	0.86	0.13	ug/m3			03/21/14 03:04	1
Styrene	ND	UJ	0.85	0.25	ug/m3			03/21/14 03:04	1
Tetrachloroethene	0.35	J	1.4	0.27	ug/m3			03/21/14 03:04	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 03:04	1
Thiophene	ND	UJ	0.69	0.69	ug/m3			03/21/14 03:04	1
Toluene	15	J	0.75	0.45	ug/m3			03/21/14 03:04	1
trans-1,2-Dichloroethene	ND	UJ	0.79	0.20	ug/m3			03/21/14 03:04	1
trans-1,3-Dichloropropene	ND	UJ	0.91	0.22	ug/m3			03/21/14 03:04	1
Trichloroethene	ND	UJ	1.1	0.19	ug/m3			03/21/14 03:04	1
Trichlorofluoromethane	1.6	J	1.1	0.13	ug/m3			03/21/14 03:04	1
Vinyl chloride	ND	UJ	0.51	0.18	ug/m3			03/21/14 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/21/14 03:04*	*1*

Client Sample ID: PCV-IA1-B8

Lab Sample ID: 140-1060-18

Date Collected: 03/14/14 16:45
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	J	0.20	0.031	ppb v/v			03/21/14 04:33	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 04:33	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 04:33	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 04:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 04:33	1
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v			03/21/14 04:33	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 04:33	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 04:33	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 04:33	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 04:33	1
1,3-Butadiene	0.069	J	0.40	0.064	ppb v/v			03/21/14 04:33	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 04:33	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 04:33	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 04:33	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 04:33	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 04:33	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 04:33	1
2-Methylbutane	0.68		0.50	0.031	ppb v/v			03/21/14 04:33	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 04:33	1

Client Sample ID: PCV-IA1-B8
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 04:33	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.50	0.045	ppb v/v			03/21/14 04:33	1
Acetone	2.8	J	5.0	1.4	ppb v/v			03/21/14 04:33	1
Benzene	0.24		0.20	0.056	ppb v/v			03/21/14 04:33	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 04:33	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 04:33	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 04:33	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 04:33	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 04:33	1
Carbon tetrachloride	0.077	J	0.20	0.038	ppb v/v			03/21/14 04:33	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 04:33	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 04:33	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 04:33	1
Chloromethane	0.64		0.50	0.16	ppb v/v			03/21/14 04:33	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 04:33	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 04:33	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 04:33	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 04:33	1
Dichlorodifluoromethane	0.52		0.20	0.068	ppb v/v			03/21/14 04:33	1
Ethanol	17		2.0	2.0	ppb v/v			03/21/14 04:33	1
Ethylbenzene	26		0.20	0.068	ppb v/v			03/21/14 04:33	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 04:33	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 04:33	1
Hexane	0.10	J	0.50	0.032	ppb v/v			03/21/14 04:33	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 04:33	1
Isopropyl alcohol	0.76	J	2.0	0.094	ppb v/v			03/21/14 04:33	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 04:33	1
Methylene Chloride	0.53		0.50	0.13	ppb v/v			03/21/14 04:33	1
~~m-Xylene & p-Xylene~~	~~86~~	~~E~~	~~0.20~~	~~0.12~~	~~ppb v/v~~			~~03/21/14 04:33~~	~~1~~
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 04:33	1
o-Xylene	35		0.20	0.061	ppb v/v			03/21/14 04:33	1
Propene	0.79	~~cn~~ J	0.50	0.077	ppb v/v			03/21/14 04:33	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 04:33	1
Tetrachloroethene	0.045	J	0.20	0.040	ppb v/v			03/21/14 04:33	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 04:33	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 04:33	1
Toluene	0.65		0.20	0.12	ppb v/v			03/21/14 04:33	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 04:33	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 04:33	1
Trichloroethene	0.042	J	0.20	0.036	ppb v/v			03/21/14 04:33	1
Trichlorofluoromethane	0.27		0.20	0.024	ppb v/v			03/21/14 04:33	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 04:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 04:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.5	0.24	ug/m3			03/21/14 04:33	1

Client Sample ID: PCV-IA1-B8
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 04:33	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 04:33	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 04:33	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 04:33	1
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/21/14 04:33	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 04:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 04:33	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 04:33	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 04:33	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 04:33	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 04:33	1
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3			03/21/14 04:33	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 04:33	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 04:33	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 04:33	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 04:33	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 04:33	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 04:33	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 04:33	1
2-Methylbutane	2.0		1.5	0.091	ug/m3			03/21/14 04:33	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 04:33	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 04:33	1
4-Methyl-2-pentanone (MIBK)	0.44	J	2.0	0.18	ug/m3			03/21/14 04:33	1
Acetone	6.6	J	12	3.3	ug/m3			03/21/14 04:33	1
Benzene	0.75		0.64	0.18	ug/m3			03/21/14 04:33	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 04:33	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 04:33	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 04:33	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 04:33	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 04:33	1
Carbon tetrachloride	0.49	J	1.3	0.24	ug/m3			03/21/14 04:33	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 04:33	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 04:33	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 04:33	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/21/14 04:33	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 04:33	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 04:33	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 04:33	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 04:33	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/21/14 04:33	1
Ethanol	32		3.8	3.8	ug/m3			03/21/14 04:33	1
Ethylbenzene	110		0.87	0.30	ug/m3			03/21/14 04:33	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 04:33	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 04:33	1
Hexane	0.36	J	1.8	0.11	ug/m3			03/21/14 04:33	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 04:33	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 04:33	1
Isopropyl alcohol	1.9	J	4.9	0.23	ug/m3			03/21/14 04:33	1

Client Sample ID: PCV-IA1-B8
Date Collected: 03/14/14 16:45
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 04:33	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/21/14 04:33	1
~~m-Xylene & p-Xylene~~	~~370~~	~~E~~	~~0.87~~	~~0.52~~	~~ug/m3~~			~~03/21/14 04:33~~	~~1~~
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 04:33	1
o-Xylene	150		0.87	0.26	ug/m3			03/21/14 04:33	1
Propene	1.4	~~en~~ J	0.86	0.13	ug/m3			03/21/14 04:33	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 04:33	1
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3			03/21/14 04:33	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 04:33	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 04:33	1
Toluene	2.4		0.75	0.45	ug/m3			03/21/14 04:33	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 04:33	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 04:33	1
Trichloroethene	0.22	J	1.1	0.19	ug/m3			03/21/14 04:33	1
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3			03/21/14 04:33	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*03/21/14 04:33*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	100	J	0.40	0.24	ppb v/v			03/24/14 18:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	450	J	1.7	1.0	ug/m3			03/24/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/24/14 18:24*	*1*

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 05:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/21/14 05:18	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 05:18	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 05:18	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 05:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 05:18	1
1,2,4-Trimethylbenzene	0.069	J	0.20	0.063	ppb v/v			03/21/14 05:18	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 05:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 05:18	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 05:18	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 05:18	1

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 05:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 05:18	1
1,3-Butadiene	0.091	J	0.40	0.064	ppb v/v			03/21/14 05:18	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 05:18	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 05:18	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 05:18	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 05:18	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
2-Butanone (MEK)	0.23	J	1.0	0.20	ppb v/v			03/21/14 05:18	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 05:18	1
2-Methylbutane	0.97		0.50	0.031	ppb v/v			03/21/14 05:18	1
2-Methylpentane	ND	UJ	0.20	0.20	ppb v/v			03/21/14 05:18	1
4-Ethyltoluene	0.070	J	0.40	0.066	ppb v/v			03/21/14 05:18	1
4-Methyl-2-pentanone (MIBK)	0.76	J	0.50	0.045	ppb v/v			03/21/14 05:18	1
Acetone	3.8	J	5.0	1.4	ppb v/v			03/21/14 05:18	1
Benzene	0.25		0.20	0.056	ppb v/v			03/21/14 05:18	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 05:18	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 05:18	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 05:18	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 05:18	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 05:18	1
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/21/14 05:18	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 05:18	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 05:18	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 05:18	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/21/14 05:18	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 05:18	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 05:18	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 05:18	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 05:18	1
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v			03/21/14 05:18	1
Ethanol	21		2.0	2.0	ppb v/v			03/21/14 05:18	1
Ethylbenzene	31		0.20	0.068	ppb v/v			03/21/14 05:18	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 05:18	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 05:18	1
Hexane	0.16	J	0.50	0.032	ppb v/v			03/21/14 05:18	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 05:18	1
Isopropyl alcohol	0.89	J	2.0	0.094	ppb v/v			03/21/14 05:18	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 05:18	1
Methylene Chloride	0.78		0.50	0.13	ppb v/v			03/21/14 05:18	1
~~m-Xylene & p-Xylene~~	~~88~~	~~E~~	~~0.20~~	~~0.12~~	~~ppb v/v~~			~~03/21/14 05:18~~	~~1~~
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 05:18	1
o-Xylene	41		0.20	0.061	ppb v/v			03/21/14 05:18	1
Propene	0.96	~~or~~ J	0.50	0.077	ppb v/v			03/21/14 05:18	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 05:18	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 05:18	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 05:18	1

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 05:18	1
Toluene	0.78		0.20	0.12	ppb v/v			03/21/14 05:18	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 05:18	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 05:18	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 05:18	1
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v			03/21/14 05:18	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 05:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 05:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/21/14 05:18	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 05:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 05:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 05:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 05:18	1
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3			03/21/14 05:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 05:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 05:18	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 05:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 05:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 05:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 05:18	1
1,3-Butadiene	0.20	J	0.88	0.14	ug/m3			03/21/14 05:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 05:18	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 05:18	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 05:18	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 05:18	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 05:18	1
2-Butanone (MEK)	0.68	J	2.9	0.59	ug/m3			03/21/14 05:18	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 05:18	1
2-Methylbutane	2.9		1.5	0.091	ug/m3			03/21/14 05:18	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 05:18	1
4-Ethyltoluene	0.35	J	2.0	0.32	ug/m3			03/21/14 05:18	1
4-Methyl-2-pentanone (MIBK)	3.1	J	2.0	0.18	ug/m3			03/21/14 05:18	1
Acetone	9.1	J	12	3.3	ug/m3			03/21/14 05:18	1
Benzene	0.79		0.64	0.18	ug/m3			03/21/14 05:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 05:18	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 05:18	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 05:18	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 05:18	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 05:18	1
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/21/14 05:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 05:18	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 05:18	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 05:18	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/21/14 05:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 05:18	1

Client Sample ID: PCV-IA1FD-B8
Date Collected: 03/14/14 13:15
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 05:18	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 05:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 05:18	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/21/14 05:18	1
Ethanol	40		3.8	3.8	ug/m3			03/21/14 05:18	1
Ethylbenzene	130		0.87	0.30	ug/m3			03/21/14 05:18	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 05:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 05:18	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/21/14 05:18	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 05:18	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 05:18	1
Isopropyl alcohol	2.2	J	4.9	0.23	ug/m3			03/21/14 05:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 05:18	1
Methylene Chloride	2.7		1.7	0.45	ug/m3			03/21/14 05:18	1
m-Xylene & p-Xylene	380	E	0.87	0.52	ug/m3			03/21/14 05:18	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 05:18	1
o-Xylene	180		0.87	0.26	ug/m3			03/21/14 05:18	1
Propene	1.6	~~or~~ J	0.86	0.13	ug/m3			03/21/14 05:18	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 05:18	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 05:18	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 05:18	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 05:18	1
Toluene	2.9		0.75	0.45	ug/m3			03/21/14 05:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 05:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 05:18	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 05:18	1
Trichlorofluoromethane	1.5		1.1	0.13	ug/m3			03/21/14 05:18	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/21/14 05:18*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	130	J	0.40	0.24	ppb v/v			03/24/14 19:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	580	J	1.7	1.0	ug/m3			03/24/14 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*03/24/14 19:08*	*1*

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 06:03	1

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 06:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.076	J	0.20	0.031	ppb v/v			03/21/14 06:03	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 06:03	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 06:03	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 06:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 06:03	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 06:03	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 06:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 06:03	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 06:03	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 06:03	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 06:03	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 06:03	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 06:03	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 06:03	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 06:03	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 06:03	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 06:03	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 06:03	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 06:03	1
2-Methylbutane	0.85		0.50	0.031	ppb v/v			03/21/14 06:03	1
2-Methylpentane	ND	WJ	0.20	0.20	ppb v/v			03/21/14 06:03	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 06:03	1
4-Methyl-2-pentanone (MIBK)	18	J	0.50	0.045	ppb v/v			03/21/14 06:03	1
Acetone	5.7		5.0	1.4	ppb v/v			03/21/14 06:03	1
Benzene	0.19	J	0.20	0.056	ppb v/v			03/21/14 06:03	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 06:03	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 06:03	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 06:03	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 06:03	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 06:03	1
Carbon tetrachloride	0.081	J	0.20	0.038	ppb v/v			03/21/14 06:03	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 06:03	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 06:03	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 06:03	1
Chloromethane	0.39	J	0.50	0.16	ppb v/v			03/21/14 06:03	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 06:03	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 06:03	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 06:03	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 06:03	1
Dichlorodifluoromethane	0.51		0.20	0.068	ppb v/v			03/21/14 06:03	1
Ethanol	17		2.0	2.0	ppb v/v			03/21/14 06:03	1
Ethylbenzene	0.52		0.20	0.068	ppb v/v			03/21/14 06:03	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/21/14 06:03	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 06:03	1
Hexane	0.095	J	0.50	0.032	ppb v/v			03/21/14 06:03	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		0.40	0.40	ppb v/v			03/21/14 06:03	1
Isopropyl alcohol	0.81	J	2.0	0.094	ppb v/v			03/21/14 06:03	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 06:03	1
Methylene Chloride	0.46	J	0.50	0.13	ppb v/v			03/21/14 06:03	1
m-Xylene & p-Xylene	2.8		0.20	0.12	ppb v/v			03/21/14 06:03	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 06:03	1
o-Xylene	0.77		0.20	0.061	ppb v/v			03/21/14 06:03	1
Propene	0.89	~~or~~ J	0.50	0.077	ppb v/v			03/21/14 06:03	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 06:03	1
Tetrachloroethene	0.045	J	0.20	0.040	ppb v/v			03/21/14 06:03	1
Tetrahydrofuran	ND	UJ	1.0	0.063	ppb v/v			03/21/14 06:03	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 06:03	1
Toluene	0.22		0.20	0.12	ppb v/v			03/21/14 06:03	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 06:03	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 06:03	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 06:03	1
Trichlorofluoromethane	0.28		0.20	0.024	ppb v/v			03/21/14 06:03	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 06:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 06:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	J	1.5	0.24	ug/m3			03/21/14 06:03	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 06:03	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 06:03	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 06:03	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 06:03	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 06:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 06:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 06:03	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 06:03	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 06:03	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 06:03	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 06:03	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 06:03	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 06:03	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 06:03	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 06:03	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 06:03	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 06:03	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 06:03	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 06:03	1
2-Methylbutane	2.5		1.5	0.091	ug/m3			03/21/14 06:03	1
2-Methylpentane	ND	UJ	0.70	0.70	ug/m3			03/21/14 06:03	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 06:03	1
4-Methyl-2-pentanone (MIBK)	73	J	2.0	0.18	ug/m3			03/21/14 06:03	1
Acetone	14		12	3.3	ug/m3			03/21/14 06:03	1
Benzene	0.60	J	0.64	0.18	ug/m3			03/21/14 06:03	1

Client Sample ID: PCV-IA2-B8
Date Collected: 03/14/14 16:03
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-20
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 06:03	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 06:03	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 06:03	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 06:03	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 06:03	1
Carbon tetrachloride	0.51	J	1.3	0.24	ug/m3			03/21/14 06:03	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 06:03	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 06:03	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 06:03	1
Chloromethane	0.81	J	1.0	0.33	ug/m3			03/21/14 06:03	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 06:03	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 06:03	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 06:03	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 06:03	1
Dichlorodifluoromethane	2.5		0.99	0.34	ug/m3			03/21/14 06:03	1
Ethanol	33		3.8	3.8	ug/m3			03/21/14 06:03	1
Ethylbenzene	2.3		0.87	0.30	ug/m3			03/21/14 06:03	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/21/14 06:03	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 06:03	1
Hexane	0.33	J	1.8	0.11	ug/m3			03/21/14 06:03	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 06:03	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 06:03	1
Isopropyl alcohol	2.0	J	4.9	0.23	ug/m3			03/21/14 06:03	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 06:03	1
Methylene Chloride	1.6	J	1.7	0.45	ug/m3			03/21/14 06:03	1
m-Xylene & p-Xylene	12		0.87	0.52	ug/m3			03/21/14 06:03	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 06:03	1
o-Xylene	3.3		0.87	0.26	ug/m3			03/21/14 06:03	1
Propene	1.5	~~or~~ J	0.86	0.13	ug/m3			03/21/14 06:03	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 06:03	1
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3			03/21/14 06:03	1
Tetrahydrofuran	ND	UJ	2.9	0.19	ug/m3			03/21/14 06:03	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 06:03	1
Toluene	0.83		0.75	0.45	ug/m3			03/21/14 06:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 06:03	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 06:03	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 06:03	1
Trichlorofluoromethane	1.6		1.1	0.13	ug/m3			03/21/14 06:03	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/21/14 06:03*	*1*

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 16:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/21/14 16:26	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 16:26	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 16:26	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 16:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 16:26	1
1,2,4-Trimethylbenzene	0.37		0.20	0.063	ppb v/v			03/21/14 16:26	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 16:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 16:26	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 16:26	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 16:26	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 16:26	1
1,3,5-Trimethylbenzene	0.099	J	0.20	0.065	ppb v/v			03/21/14 16:26	1
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v			03/21/14 16:26	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 16:26	1
1,4-Dichlorobenzene	0.072	J	0.20	0.064	ppb v/v			03/21/14 16:26	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 16:26	1
2,2,4-Trimethylpentane	0.091	J	0.50	0.039	ppb v/v			03/21/14 16:26	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
2-Butanone (MEK)	0.25	J	1.0	0.20	ppb v/v			03/21/14 16:26	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 16:26	1
2-Methylbutane	0.82		0.50	0.031	ppb v/v			03/21/14 16:26	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v			03/21/14 16:26	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v			03/21/14 16:26	1
Acetone	3.2	J	5.0	1.4	ppb v/v			03/21/14 16:26	1
Benzene	0.32		0.20	0.056	ppb v/v			03/21/14 16:26	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 16:26	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 16:26	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 16:26	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 16:26	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 16:26	1
Carbon tetrachloride	0.053	J	0.20	0.038	ppb v/v			03/21/14 16:26	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 16:26	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 16:26	1
Chloroform	0.063	J	0.20	0.038	ppb v/v			03/21/14 16:26	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/21/14 16:26	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 16:26	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 16:26	1
Cyclohexane	0.059	J	0.50	0.040	ppb v/v			03/21/14 16:26	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 16:26	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/21/14 16:26	1
Ethanol	130		2.0	2.0	ppb v/v			03/21/14 16:26	1
Ethylbenzene	1.1		0.20	0.068	ppb v/v			03/21/14 16:26	1
Heptane	0.12	J	0.50	0.047	ppb v/v			03/21/14 16:26	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 16:26	1
Hexane	0.23	J	0.50	0.032	ppb v/v			03/21/14 16:26	1

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 16:26	1
Isopropyl alcohol	2.5		2.0	0.094	ppb v/v			03/21/14 16:26	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 16:26	1
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/21/14 16:26	1
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v			03/21/14 16:26	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 16:26	1
o-Xylene	2.0		0.20	0.061	ppb v/v			03/21/14 16:26	1
Propene	1.2	~~cn~~ J	0.50	0.077	ppb v/v			03/21/14 16:26	1
Styrene	0.068	J	0.20	0.058	ppb v/v			03/21/14 16:26	1
Tetrachloroethene	0.048	J	0.20	0.040	ppb v/v			03/21/14 16:26	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 16:26	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 16:26	1
Toluene	0.63		0.20	0.12	ppb v/v			03/21/14 16:26	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 16:26	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 16:26	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 16:26	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/21/14 16:26	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 16:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 16:26	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/21/14 16:26	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 16:26	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 16:26	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 16:26	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 16:26	1
1,2,4-Trimethylbenzene	1.8		0.98	0.31	ug/m3			03/21/14 16:26	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 16:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 16:26	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 16:26	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 16:26	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 16:26	1
1,3,5-Trimethylbenzene	0.48	J	0.98	0.32	ug/m3			03/21/14 16:26	1
1,3-Butadiene	0.31	J	0.88	0.14	ug/m3			03/21/14 16:26	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 16:26	1
1,4-Dichlorobenzene	0.43	J	1.2	0.38	ug/m3			03/21/14 16:26	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 16:26	1
2,2,4-Trimethylpentane	0.42	J	2.3	0.18	ug/m3			03/21/14 16:26	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 16:26	1
2-Butanone (MEK)	0.75	J	2.9	0.59	ug/m3			03/21/14 16:26	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 16:26	1
2-Methylbutane	2.4		1.5	0.091	ug/m3			03/21/14 16:26	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 16:26	1
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3			03/21/14 16:26	1
4-Methyl-2-pentanone (MIBK)	0.52	J	2.0	0.18	ug/m3			03/21/14 16:26	1
Acetone	7.5	J	12	3.3	ug/m3			03/21/14 16:26	1

Client Sample ID: PCV-IA1-B20
Date Collected: 03/14/14 16:37
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-21
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0		0.64	0.18	ug/m3			03/21/14 16:26	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 16:26	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 16:26	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 16:26	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 16:26	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 16:26	1
Carbon tetrachloride	0.34	J	1.3	0.24	ug/m3			03/21/14 16:26	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 16:26	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 16:26	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/21/14 16:26	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/21/14 16:26	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 16:26	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 16:26	1
Cyclohexane	0.20	J	1.7	0.14	ug/m3			03/21/14 16:26	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 16:26	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/21/14 16:26	1
Ethanol	240		3.8	3.8	ug/m3			03/21/14 16:26	1
Ethylbenzene	5.0		0.87	0.30	ug/m3			03/21/14 16:26	1
Heptane	0.50	J	2.0	0.19	ug/m3			03/21/14 16:26	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 16:26	1
Hexane	0.80	J	1.8	0.11	ug/m3			03/21/14 16:26	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 16:26	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 16:26	1
Isopropyl alcohol	6.0		4.9	0.23	ug/m3			03/21/14 16:26	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 16:26	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/21/14 16:26	1
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3			03/21/14 16:26	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 16:26	1
o-Xylene	8.7		0.87	0.26	ug/m3			03/21/14 16:26	1
Propene	2.1	~~or~~ J	0.86	0.13	ug/m3			03/21/14 16:26	1
Styrene	0.29	J	0.85	0.25	ug/m3			03/21/14 16:26	1
Tetrachloroethene	0.33	J	1.4	0.27	ug/m3			03/21/14 16:26	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 16:26	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 16:26	1
Toluene	2.4		0.75	0.45	ug/m3			03/21/14 16:26	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 16:26	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 16:26	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 16:26	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/21/14 16:26	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 16:26*	*1*

Client Sample ID: PCV-IA2-B20
Date Collected: 03/14/14 16:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/21/14 17:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 17:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 17:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 17:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 17:20	1
1,2,4-Trimethylbenzene	0.75		0.20	0.063	ppb v/v			03/21/14 17:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 17:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 17:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 17:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 17:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 17:20	1
1,3,5-Trimethylbenzene	0.20		0.20	0.065	ppb v/v			03/21/14 17:20	1
1,3-Butadiene	0.12	J	0.40	0.064	ppb v/v			03/21/14 17:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 17:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 17:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 17:20	1
2,2,4-Trimethylpentane	0.094	J	0.50	0.039	ppb v/v			03/21/14 17:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
2-Butanone (MEK)	0.49	J	1.0	0.20	ppb v/v			03/21/14 17:20	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 17:20	1
2-Methylbutane	0.93		0.50	0.031	ppb v/v			03/21/14 17:20	1
2-Methylpentane	0.20		0.20	0.20	ppb v/v			03/21/14 17:20	1
4-Ethyltoluene	0.32	J	0.40	0.066	ppb v/v			03/21/14 17:20	1
4-Methyl-2-pentanone (MIBK)	0.86		0.50	0.045	ppb v/v			03/21/14 17:20	1
Acetone	4.8	J	5.0	1.4	ppb v/v			03/21/14 17:20	1
Benzene	0.34		0.20	0.056	ppb v/v			03/21/14 17:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 17:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 17:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 17:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 17:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 17:20	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/21/14 17:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 17:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 17:20	1
Chloroform	0.093	J	0.20	0.038	ppb v/v			03/21/14 17:20	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/21/14 17:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 17:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 17:20	1
Cyclohexane	0.078	J	0.50	0.040	ppb v/v			03/21/14 17:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 17:20	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/21/14 17:20	1
~~Ethanol~~	~~280~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/21/14 17:20~~	~~1~~
Ethylbenzene	1.9		0.20	0.068	ppb v/v			03/21/14 17:20	1
Heptane	0.15	J	0.50	0.047	ppb v/v			03/21/14 17:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 17:20	1
Hexane	0.27	J	0.50	0.032	ppb v/v			03/21/14 17:20	1

Client Sample ID: PCV-IA2-B20
Date Collected: 03/14/14 16:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 17:20	1
Isopropyl alcohol	4.7		2.0	0.094	ppb v/v			03/21/14 17:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 17:20	1
Methylene Chloride	0.49	J	0.50	0.13	ppb v/v			03/21/14 17:20	1
m-Xylene & p-Xylene	8.0		0.20	0.12	ppb v/v			03/21/14 17:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 17:20	1
o-Xylene	3.1		0.20	0.061	ppb v/v			03/21/14 17:20	1
Propene	1.2	~~on~~ J	0.50	0.077	ppb v/v			03/21/14 17:20	1
Styrene	0.075	J	0.20	0.058	ppb v/v			03/21/14 17:20	1
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v			03/21/14 17:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 17:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 17:20	1
Toluene	0.77		0.20	0.12	ppb v/v			03/21/14 17:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 17:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 17:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 17:20	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/21/14 17:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 17:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/21/14 17:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 17:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 17:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 17:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 17:20	1
1,2,4-Trimethylbenzene	3.7		0.98	0.31	ug/m3			03/21/14 17:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 17:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 17:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 17:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 17:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 17:20	1
1,3,5-Trimethylbenzene	0.98		0.98	0.32	ug/m3			03/21/14 17:20	1
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3			03/21/14 17:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 17:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 17:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 17:20	1
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3			03/21/14 17:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 17:20	1
2-Butanone (MEK)	1.5	J	2.9	0.59	ug/m3			03/21/14 17:20	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 17:20	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/21/14 17:20	1
2-Methylpentane	0.71		0.70	0.70	ug/m3			03/21/14 17:20	1
4-Ethyltoluene	1.6	J	2.0	0.32	ug/m3			03/21/14 17:20	1
4-Methyl-2-pentanone (MIBK)	3.5		2.0	0.18	ug/m3			03/21/14 17:20	1
Acetone	11	J	12	3.3	ug/m3			03/21/14 17:20	1

Client Sample ID: PCV-IA2-B20
Date Collected: 03/14/14 16:35
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-22
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		0.64	0.18	ug/m3			03/21/14 17:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 17:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 17:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 17:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 17:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 17:20	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/21/14 17:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 17:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 17:20	1
Chloroform	0.46	J	0.98	0.19	ug/m3			03/21/14 17:20	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 17:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 17:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 17:20	1
Cyclohexane	0.27	J	1.7	0.14	ug/m3			03/21/14 17:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 17:20	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/21/14 17:20	1
~~Ethanol~~	~~530~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/21/14 17:20~~	~~1~~
Ethylbenzene	8.0		0.87	0.30	ug/m3			03/21/14 17:20	1
Heptane	0.63	J	2.0	0.19	ug/m3			03/21/14 17:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 17:20	1
Hexane	0.96	J	1.8	0.11	ug/m3			03/21/14 17:20	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 17:20	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 17:20	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/21/14 17:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 17:20	1
Methylene Chloride	1.7	J	1.7	0.45	ug/m3			03/21/14 17:20	1
m-Xylene & p-Xylene	35		0.87	0.52	ug/m3			03/21/14 17:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 17:20	1
o-Xylene	13		0.87	0.26	ug/m3			03/21/14 17:20	1
Propene	2.1	~~or~~ J	0.86	0.13	ug/m3			03/21/14 17:20	1
Styrene	0.32	J	0.85	0.25	ug/m3			03/21/14 17:20	1
Tetrachloroethene	0.32	J	1.4	0.27	ug/m3			03/21/14 17:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 17:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 17:20	1
Toluene	2.9		0.75	0.45	ug/m3			03/21/14 17:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 17:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 17:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 17:20	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/21/14 17:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 17:20*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	240		5.0	5.0	ppb v/v			03/24/14 19:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	450		9.4	9.4	ug/m3			03/24/14 19:53	1

Client Sample ID: PCV-IA2-B20

Lab Sample ID: 140-1060-22

Date Collected: 03/14/14 16:35
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/24/14 19:53	1

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Date Collected: 03/14/14 17:01
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 18:13	1.66
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 18:13	1.66
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	J	0.20	0.031	ppb v/v			03/21/14 18:13	1.66
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 18:13	1.66
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 18:13	1.66
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 18:13	1.66
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 18:13	1.66
1,2,4-Trimethylbenzene	0.20		0.20	0.063	ppb v/v			03/21/14 18:13	1.66
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 18:13	1.66
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 18:13	1.66
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 18:13	1.66
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 18:13	1.66
1,3-Butadiene	0.11	J	0.40	0.064	ppb v/v			03/21/14 18:13	1.66
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 18:13	1.66
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 18:13	1.66
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 18:13	1.66
2,2,4-Trimethylpentane	0.10	J	0.50	0.039	ppb v/v			03/21/14 18:13	1.66
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
2-Butanone (MEK)	0.26	J	1.0	0.20	ppb v/v			03/21/14 18:13	1.66
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 18:13	1.66
2-Methylbutane	0.72		0.50	0.031	ppb v/v			03/21/14 18:13	1.66
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/21/14 18:13	1.66
4-Methyl-2-pentanone (MIBK)	6.1		0.50	0.045	ppb v/v			03/21/14 18:13	1.66
Acetone	2.2	J	5.0	1.4	ppb v/v			03/21/14 18:13	1.66
Benzene	0.33		0.20	0.056	ppb v/v			03/21/14 18:13	1.66
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 18:13	1.66
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 18:13	1.66
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 18:13	1.66
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 18:13	1.66
Carbon disulfide	0.038	J	0.50	0.031	ppb v/v			03/21/14 18:13	1.66
Carbon tetrachloride	0.063	J	0.20	0.038	ppb v/v			03/21/14 18:13	1.66
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 18:13	1.66
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 18:13	1.66
Chloroform	0.14	J	0.20	0.038	ppb v/v			03/21/14 18:13	1.66
Chloromethane	0.54		0.50	0.16	ppb v/v			03/21/14 18:13	1.66
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 18:13	1.66

Client Sample ID: PCV-IA3-B20
Date Collected: 03/14/14 17:01
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 18:13	1.66
Cyclohexane	0.048	J	0.50	0.040	ppb v/v			03/21/14 18:13	1.66
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 18:13	1.66
Dichlorodifluoromethane	0.39		0.20	0.068	ppb v/v			03/21/14 18:13	1.66
Ethanol	36		2.0	2.0	ppb v/v			03/21/14 18:13	1.66
Ethylbenzene	0.58		0.20	0.068	ppb v/v			03/21/14 18:13	1.66
Heptane	0.12	J	0.50	0.047	ppb v/v			03/21/14 18:13	1.66
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 18:13	1.66
Hexane	0.21	J	0.50	0.032	ppb v/v			03/21/14 18:13	1.66
Indane	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
Indene	ND		0.40	0.40	ppb v/v			03/21/14 18:13	1.66
Isopropyl alcohol	1.3	J	2.0	0.094	ppb v/v			03/21/14 18:13	1.66
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 18:13	1.66
Methylene Chloride	0.55		0.50	0.13	ppb v/v			03/21/14 18:13	1.66
m-Xylene & p-Xylene	2.6		0.20	0.12	ppb v/v			03/21/14 18:13	1.66
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 18:13	1.66
o-Xylene	1.0		0.20	0.061	ppb v/v			03/21/14 18:13	1.66
Propene	1.0	~~or~~ J	0.50	0.077	ppb v/v			03/21/14 18:13	1.66
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 18:13	1.66
Tetrachloroethene	0.046	J	0.20	0.040	ppb v/v			03/21/14 18:13	1.66
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 18:13	1.66
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 18:13	1.66
Toluene	0.51		0.20	0.12	ppb v/v			03/21/14 18:13	1.66
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 18:13	1.66
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 18:13	1.66
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 18:13	1.66
Trichlorofluoromethane	0.18	J	0.20	0.024	ppb v/v			03/21/14 18:13	1.66
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 18:13	1.66

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 18:13	1.66
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 18:13	1.66
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	J	1.5	0.24	ug/m3			03/21/14 18:13	1.66
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 18:13	1.66
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 18:13	1.66
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 18:13	1.66
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 18:13	1.66
1,2,4-Trimethylbenzene	0.98		0.98	0.31	ug/m3			03/21/14 18:13	1.66
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 18:13	1.66
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 18:13	1.66
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 18:13	1.66
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 18:13	1.66
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 18:13	1.66
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 18:13	1.66
1,3-Butadiene	0.24	J	0.88	0.14	ug/m3			03/21/14 18:13	1.66
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 18:13	1.66
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 18:13	1.66
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 18:13	1.66

Client Sample ID: PCV-IA3-B20
Date Collected: 03/14/14 17:01
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-23
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	0.48	J	2.3	0.18	ug/m3			03/21/14 18:13	1.66
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 18:13	1.66
2-Butanone (MEK)	0.77	J	2.9	0.59	ug/m3			03/21/14 18:13	1.66
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 18:13	1.66
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/21/14 18:13	1.66
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 18:13	1.66
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/21/14 18:13	1.66
4-Methyl-2-pentanone (MIBK)	25		2.0	0.18	ug/m3			03/21/14 18:13	1.66
Acetone	5.3	J	12	3.3	ug/m3			03/21/14 18:13	1.66
Benzene	1.1		0.64	0.18	ug/m3			03/21/14 18:13	1.66
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 18:13	1.66
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 18:13	1.66
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 18:13	1.66
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 18:13	1.66
Carbon disulfide	0.12	J	1.6	0.097	ug/m3			03/21/14 18:13	1.66
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/21/14 18:13	1.66
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 18:13	1.66
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 18:13	1.66
Chloroform	0.68	J	0.98	0.19	ug/m3			03/21/14 18:13	1.66
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 18:13	1.66
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 18:13	1.66
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 18:13	1.66
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/21/14 18:13	1.66
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 18:13	1.66
Dichlorodifluoromethane	1.9		0.99	0.34	ug/m3			03/21/14 18:13	1.66
Ethanol	68		3.8	3.8	ug/m3			03/21/14 18:13	1.66
Ethylbenzene	2.5		0.87	0.30	ug/m3			03/21/14 18:13	1.66
Heptane	0.49	J	2.0	0.19	ug/m3			03/21/14 18:13	1.66
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 18:13	1.66
Hexane	0.75	J	1.8	0.11	ug/m3			03/21/14 18:13	1.66
Indane	ND		0.97	0.97	ug/m3			03/21/14 18:13	1.66
Indene	ND		1.9	1.9	ug/m3			03/21/14 18:13	1.66
Isopropyl alcohol	3.2	J	4.9	0.23	ug/m3			03/21/14 18:13	1.66
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 18:13	1.66
Methylene Chloride	1.9		1.7	0.45	ug/m3			03/21/14 18:13	1.66
m-Xylene & p-Xylene	11		0.87	0.52	ug/m3			03/21/14 18:13	1.66
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 18:13	1.66
o-Xylene	4.5		0.87	0.26	ug/m3			03/21/14 18:13	1.66
Propene	1.8	~~cn~~ J	0.86	0.13	ug/m3			03/21/14 18:13	1.66
Styrene	ND		0.85	0.25	ug/m3			03/21/14 18:13	1.66
Tetrachloroethene	0.31	J	1.4	0.27	ug/m3			03/21/14 18:13	1.66
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 18:13	1.66
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 18:13	1.66
Toluene	1.9		0.75	0.45	ug/m3			03/21/14 18:13	1.66
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 18:13	1.66
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 18:13	1.66
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 18:13	1.66
Trichlorofluoromethane	1.0	J	1.1	0.13	ug/m3			03/21/14 18:13	1.66

Client Sample ID: PCV-IA3-B20

Lab Sample ID: 140-1060-23

Date Collected: 03/14/14 17:01
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 18:13	1.66

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/21/14 18:13*	*1.66*

Client Sample ID: PCV-AMB-8

Lab Sample ID: 140-1060-24

Date Collected: 03/14/14 16:31
Matrix: Air
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 19:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**0.065**	**J**	0.20	0.031	ppb v/v			03/21/14 19:07	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 19:07	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 19:07	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 19:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 19:07	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 19:07	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 19:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 19:07	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 19:07	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 19:07	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 19:07	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 19:07	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 19:07	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 19:07	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 19:07	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 19:07	1
2,2,4-Trimethylpentane	**0.066**	**J**	0.50	0.039	ppb v/v			03/21/14 19:07	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
2-Butanone (MEK)	**0.30**	**J**	1.0	0.20	ppb v/v			03/21/14 19:07	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 19:07	1
2-Methylbutane	**0.55**		0.50	0.031	ppb v/v			03/21/14 19:07	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 19:07	1
4-Methyl-2-pentanone (MIBK)	**0.97**		0.50	0.045	ppb v/v			03/21/14 19:07	1
Acetone	**2.0**	**J**	5.0	1.4	ppb v/v			03/21/14 19:07	1
Benzene	**0.25**		0.20	0.056	ppb v/v			03/21/14 19:07	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 19:07	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 19:07	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 19:07	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 19:07	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 19:07	1
Carbon tetrachloride	**0.064**	**J**	0.20	0.038	ppb v/v			03/21/14 19:07	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 19:07	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 19:07	1

Client Sample ID: PCV-AMB-8
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 19:07	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/21/14 19:07	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 19:07	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 19:07	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 19:07	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 19:07	1
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v			03/21/14 19:07	1
Ethanol	9.7		2.0	2.0	ppb v/v			03/21/14 19:07	1
Ethylbenzene	0.072	J	0.20	0.068	ppb v/v			03/21/14 19:07	1
Heptane	0.091	J	0.50	0.047	ppb v/v			03/21/14 19:07	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 19:07	1
Hexane	0.16	J	0.50	0.032	ppb v/v			03/21/14 19:07	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 19:07	1
Isopropyl alcohol	0.55	J	2.0	0.094	ppb v/v			03/21/14 19:07	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 19:07	1
Methylene Chloride	0.50		0.50	0.13	ppb v/v			03/21/14 19:07	1
m-Xylene & p-Xylene	0.23		0.20	0.12	ppb v/v			03/21/14 19:07	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 19:07	1
o-Xylene	0.091	J	0.20	0.061	ppb v/v			03/21/14 19:07	1
Propene	0.73	~~on~~ J	0.50	0.077	ppb v/v			03/21/14 19:07	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 19:07	1
Tetrachloroethene	0.050	J	0.20	0.040	ppb v/v			03/21/14 19:07	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 19:07	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 19:07	1
Toluene	0.44		0.20	0.12	ppb v/v			03/21/14 19:07	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 19:07	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 19:07	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 19:07	1
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/21/14 19:07	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 19:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/21/14 19:07	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 19:07	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 19:07	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 19:07	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 19:07	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 19:07	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 19:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 19:07	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 19:07	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 19:07	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 19:07	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 19:07	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 19:07	1

Client Sample ID: PCV-AMB-8
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 19:07	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 19:07	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 19:07	1
2,2,4-Trimethylpentane	0.31	J	2.3	0.18	ug/m3			03/21/14 19:07	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 19:07	1
2-Butanone (MEK)	0.87	J	2.9	0.59	ug/m3			03/21/14 19:07	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 19:07	1
2-Methylbutane	1.6		1.5	0.091	ug/m3			03/21/14 19:07	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 19:07	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 19:07	1
4-Methyl-2-pentanone (MIBK)	4.0		2.0	0.18	ug/m3			03/21/14 19:07	1
Acetone	4.7	J	12	3.3	ug/m3			03/21/14 19:07	1
Benzene	0.80		0.64	0.18	ug/m3			03/21/14 19:07	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 19:07	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 19:07	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 19:07	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 19:07	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 19:07	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/21/14 19:07	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 19:07	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 19:07	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 19:07	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 19:07	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 19:07	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 19:07	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 19:07	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 19:07	1
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3			03/21/14 19:07	1
Ethanol	18		3.8	3.8	ug/m3			03/21/14 19:07	1
Ethylbenzene	0.31	J	0.87	0.30	ug/m3			03/21/14 19:07	1
Heptane	0.37	J	2.0	0.19	ug/m3			03/21/14 19:07	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 19:07	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/21/14 19:07	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 19:07	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 19:07	1
Isopropyl alcohol	1.4	J	4.9	0.23	ug/m3			03/21/14 19:07	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 19:07	1
Methylene Chloride	1.7		1.7	0.45	ug/m3			03/21/14 19:07	1
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3			03/21/14 19:07	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 19:07	1
o-Xylene	0.40	J	0.87	0.26	ug/m3			03/21/14 19:07	1
Propene	1.2	~~or~~ J	0.86	0.13	ug/m3			03/21/14 19:07	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 19:07	1
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3			03/21/14 19:07	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 19:07	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 19:07	1
Toluene	1.7		0.75	0.45	ug/m3			03/21/14 19:07	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 19:07	1

Client Sample ID: PCV-AMB-8
Date Collected: 03/14/14 16:31
Date Received: 03/15/14 09:02
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1060-24
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 19:07	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 19:07	1
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/21/14 19:07	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*60 - 140*		*03/21/14 19:07*	*1*

Client Sample ID: PCV-IA2-B7
Date Collected: 03/12/14 16:00
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 04:13	1
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 04:13	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 04:13	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
2-Butanone (MEK)	0.75	J	1.0	0.20	ppb v/v			03/19/14 04:13	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 04:13	1
2-Methylbutane	1.1		0.50	0.031	ppb v/v			03/19/14 04:13	1
2-Methylpentane	0.25		0.20	0.20	ppb v/v			03/19/14 04:13	1
4-Ethyltoluene	0.16	J	0.40	0.066	ppb v/v			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	0.60		0.50	0.045	ppb v/v			03/19/14 04:13	1
Acetone	4.6	J	5.0	1.4	ppb v/v			03/19/14 04:13	1
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 04:13	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 04:13	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 04:13	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 04:13	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 04:13	1
Chloroform	0.16	J	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chloromethane	0.57		0.50	0.16	ppb v/v			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 04:13	1
Cyclohexane	0.072	J	0.50	0.040	ppb v/v			03/19/14 04:13	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 04:13	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 04:13	1
Ethanol	53		2.0	2.0	ppb v/v			03/19/14 04:13	1
Ethylbenzene	0.38		0.20	0.068	ppb v/v			03/19/14 04:13	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/19/14 04:13	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 04:13	1
Hexane	0.29	J	0.50	0.032	ppb v/v			03/19/14 04:13	1

Client Sample ID: PCV-IA2-B7
Date Collected: 03/12/14 16:00
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 04:13	1
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v			03/19/14 04:13	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 04:13	1
Methylene Chloride	3.6		0.50	0.13	ppb v/v			03/19/14 04:13	1
m-Xylene & p-Xylene	1.7		0.20	0.12	ppb v/v			03/19/14 04:13	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 04:13	1
o-Xylene	0.68		0.20	0.061	ppb v/v			03/19/14 04:13	1
Propene	0.97	~~on~~ J	0.50	0.077	ppb v/v			03/19/14 04:13	1
Styrene	0.14	J	0.20	0.058	ppb v/v			03/19/14 04:13	1
Tetrachloroethene	0.22		0.20	0.040	ppb v/v			03/19/14 04:13	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 04:13	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Toluene	1.4		0.20	0.12	ppb v/v			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 04:13	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 04:13	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 04:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 04:13	1
1,2,4-Trimethylbenzene	0.75	J	0.98	0.31	ug/m3			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 04:13	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 04:13	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 04:13	1
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 04:13	1
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3			03/19/14 04:13	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 04:13	1
2-Methylbutane	3.2		1.5	0.091	ug/m3			03/19/14 04:13	1
2-Methylpentane	0.88		0.70	0.70	ug/m3			03/19/14 04:13	1
4-Ethyltoluene	0.78	J	2.0	0.32	ug/m3			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	2.5		2.0	0.18	ug/m3			03/19/14 04:13	1
Acetone	11	J	12	3.3	ug/m3			03/19/14 04:13	1

Client Sample ID: PCV-IA2-B7
Date Collected: 03/12/14 16:00
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 04:13	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 04:13	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 04:13	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 04:13	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 04:13	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 04:13	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 04:13	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 04:13	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 04:13	1
Chloroform	0.78	J	0.98	0.19	ug/m3			03/19/14 04:13	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 04:13	1
Cyclohexane	0.25	J	1.7	0.14	ug/m3			03/19/14 04:13	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 04:13	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 04:13	1
Ethanol	99		3.8	3.8	ug/m3			03/19/14 04:13	1
Ethylbenzene	1.7		0.87	0.30	ug/m3			03/19/14 04:13	1
Heptane	0.79	J	2.0	0.19	ug/m3			03/19/14 04:13	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 04:13	1
Hexane	1.0	J	1.8	0.11	ug/m3			03/19/14 04:13	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 04:13	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 04:13	1
Isopropyl alcohol	5.8		4.9	0.23	ug/m3			03/19/14 04:13	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 04:13	1
Methylene Chloride	13		1.7	0.45	ug/m3			03/19/14 04:13	1
m-Xylene & p-Xylene	7.3		0.87	0.52	ug/m3			03/19/14 04:13	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 04:13	1
o-Xylene	3.0		0.87	0.26	ug/m3			03/19/14 04:13	1
Propene	1.7	~~on~~ J	0.86	0.13	ug/m3			03/19/14 04:13	1
Styrene	0.61	J	0.85	0.25	ug/m3			03/19/14 04:13	1
Tetrachloroethene	1.5		1.4	0.27	ug/m3			03/19/14 04:13	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 04:13	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 04:13	1
Toluene	5.3		0.75	0.45	ug/m3			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 04:13	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 04:13	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 04:13	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/19/14 04:13*	*1*

Client Sample ID: PCV-IA3-B7
Date Collected: 03/12/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.071	J	0.20	0.031	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 05:07	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 05:07	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 05:07	1
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v			03/19/14 05:07	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 05:07	1
2-Methylbutane	0.92		0.50	0.031	ppb v/v			03/19/14 05:07	1
2-Methylpentane	0.23		0.20	0.20	ppb v/v			03/19/14 05:07	1
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	0.21	J	0.50	0.045	ppb v/v			03/19/14 05:07	1
Acetone	3.8	J	5.0	1.4	ppb v/v			03/19/14 05:07	1
Benzene	0.36		0.20	0.056	ppb v/v			03/19/14 05:07	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 05:07	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 05:07	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 05:07	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 05:07	1
Chloroform	0.056	J	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 05:07	1
Cyclohexane	0.068	J	0.50	0.040	ppb v/v			03/19/14 05:07	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 05:07	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 05:07	1
Ethanol	23		2.0	2.0	ppb v/v			03/19/14 05:07	1
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/19/14 05:07	1
Heptane	0.15	J	0.50	0.047	ppb v/v			03/19/14 05:07	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 05:07	1
Hexane	0.36	J	0.50	0.032	ppb v/v			03/19/14 05:07	1

Client Sample ID: PCV-IA3-B7
Date Collected: 03/12/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 05:07	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/19/14 05:07	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 05:07	1
Methylene Chloride	0.82		0.50	0.13	ppb v/v			03/19/14 05:07	1
m-Xylene & p-Xylene	0.94		0.20	0.12	ppb v/v			03/19/14 05:07	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 05:07	1
o-Xylene	0.38		0.20	0.061	ppb v/v			03/19/14 05:07	1
Propene	1.1	~~on~~ J	0.50	0.077	ppb v/v			03/19/14 05:07	1
Styrene	0.073	J	0.20	0.058	ppb v/v			03/19/14 05:07	1
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v			03/19/14 05:07	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 05:07	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Toluene	1.1		0.20	0.12	ppb v/v			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 05:07	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 05:07	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 05:07	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 05:07	1
1,2,4-Trimethylbenzene	0.81	J	0.98	0.31	ug/m3			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 05:07	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 05:07	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 05:07	1
2,2,4-Trimethylpentane	0.63	J	2.3	0.18	ug/m3			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 05:07	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/19/14 05:07	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 05:07	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/19/14 05:07	1
2-Methylpentane	0.83		0.70	0.70	ug/m3			03/19/14 05:07	1
4-Ethyltoluene	0.62	J	2.0	0.32	ug/m3			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	0.86	J	2.0	0.18	ug/m3			03/19/14 05:07	1
Acetone	8.9	J	12	3.3	ug/m3			03/19/14 05:07	1

Client Sample ID: PCV-IA3-B7
Date Collected: 03/12/14 16:10
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		0.64	0.18	ug/m3			03/19/14 05:07	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 05:07	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 05:07	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 05:07	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 05:07	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 05:07	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/19/14 05:07	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 05:07	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 05:07	1
Chloroform	0.27	J	0.98	0.19	ug/m3			03/19/14 05:07	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 05:07	1
Cyclohexane	0.23	J	1.7	0.14	ug/m3			03/19/14 05:07	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 05:07	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 05:07	1
Ethanol	44		3.8	3.8	ug/m3			03/19/14 05:07	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/19/14 05:07	1
Heptane	0.60	J	2.0	0.19	ug/m3			03/19/14 05:07	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 05:07	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/19/14 05:07	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 05:07	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 05:07	1
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3			03/19/14 05:07	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 05:07	1
Methylene Chloride	2.8		1.7	0.45	ug/m3			03/19/14 05:07	1
m-Xylene & p-Xylene	4.1		0.87	0.52	ug/m3			03/19/14 05:07	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 05:07	1
o-Xylene	1.6		0.87	0.26	ug/m3			03/19/14 05:07	1
Propene	1.8	~~on~~ J	0.86	0.13	ug/m3			03/19/14 05:07	1
Styrene	0.31	J	0.85	0.25	ug/m3			03/19/14 05:07	1
Tetrachloroethene	0.97	J	1.4	0.27	ug/m3			03/19/14 05:07	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 05:07	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 05:07	1
Toluene	4.2		0.75	0.45	ug/m3			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 05:07	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 05:07	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 05:07	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*03/19/14 05:07*	*1*

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:01	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,4-Dichlorobenzene	0.096	J	0.20	0.064	ppb v/v			03/19/14 06:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:01	1
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/19/14 06:01	1
2-Hexanone	0.099	J	0.50	0.058	ppb v/v			03/19/14 06:01	1
2-Methylbutane	2.5		0.50	0.031	ppb v/v			03/19/14 06:01	1
2-Methylpentane	0.40		0.20	0.20	ppb v/v			03/19/14 06:01	1
4-Ethyltoluene	0.17	J	0.40	0.066	ppb v/v			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	0.34	J	0.50	0.045	ppb v/v			03/19/14 06:01	1
Acetone	8.5	J	5.0	1.4	ppb v/v			03/19/14 06:01	1
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 06:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 06:01	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:01	1
Chloroform	0.14	J	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chloromethane	0.57		0.50	0.16	ppb v/v			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:01	1
Cyclohexane	0.13	J	0.50	0.040	ppb v/v			03/19/14 06:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:01	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 06:01	1
Ethanol	160		2.0	2.0	ppb v/v			03/19/14 06:01	1
Ethylbenzene	0.21		0.20	0.068	ppb v/v			03/19/14 06:01	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/19/14 06:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:01	1
Hexane	0.50		0.50	0.032	ppb v/v			03/19/14 06:01	1

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:01	1
Isopropyl alcohol	8.7		2.0	0.094	ppb v/v			03/19/14 06:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:01	1
Methylene Chloride	0.60		0.50	0.13	ppb v/v			03/19/14 06:01	1
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v			03/19/14 06:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:01	1
o-Xylene	0.32		0.20	0.061	ppb v/v			03/19/14 06:01	1
Propene	5.1	~~on~~ J	0.50	0.077	ppb v/v			03/19/14 06:01	1
Styrene	0.070	J	0.20	0.058	ppb v/v			03/19/14 06:01	1
Tetrachloroethene	0.20		0.20	0.040	ppb v/v			03/19/14 06:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Toluene	1.2		0.20	0.12	ppb v/v			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:01	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 06:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:01	1
1,2,4-Trimethylbenzene	0.79	J	0.98	0.31	ug/m3			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:01	1
1,4-Dichlorobenzene	0.58	J	1.2	0.38	ug/m3			03/19/14 06:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:01	1
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:01	1
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3			03/19/14 06:01	1
2-Hexanone	0.41	J	2.0	0.24	ug/m3			03/19/14 06:01	1
2-Methylbutane	7.3		1.5	0.091	ug/m3			03/19/14 06:01	1
2-Methylpentane	1.4		0.70	0.70	ug/m3			03/19/14 06:01	1
4-Ethyltoluene	0.85	J	2.0	0.32	ug/m3			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	1.4	J	2.0	0.18	ug/m3			03/19/14 06:01	1
Acetone	20	J	12	3.3	ug/m3			03/19/14 06:01	1

Client Sample ID: PCV-IA1-B11
Date Collected: 03/12/14 16:34
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-10
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 06:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 06:01	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 06:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:01	1
Chloroform	0.67	J	0.98	0.19	ug/m3			03/19/14 06:01	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:01	1
Cyclohexane	0.43	J	1.7	0.14	ug/m3			03/19/14 06:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:01	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 06:01	1
Ethanol	290		3.8	3.8	ug/m3			03/19/14 06:01	1
Ethylbenzene	0.90		0.87	0.30	ug/m3			03/19/14 06:01	1
Heptane	0.77	J	2.0	0.19	ug/m3			03/19/14 06:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:01	1
Hexane	1.8		1.8	0.11	ug/m3			03/19/14 06:01	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:01	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:01	1
Isopropyl alcohol	21		4.9	0.23	ug/m3			03/19/14 06:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:01	1
Methylene Chloride	2.1		1.7	0.45	ug/m3			03/19/14 06:01	1
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3			03/19/14 06:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:01	1
o-Xylene	1.4		0.87	0.26	ug/m3			03/19/14 06:01	1
Propene	8.8	~~or~~ J	0.86	0.13	ug/m3			03/19/14 06:01	1
Styrene	0.30	J	0.85	0.25	ug/m3			03/19/14 06:01	1
Tetrachloroethene	1.3		1.4	0.27	ug/m3			03/19/14 06:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:01	1
Toluene	4.5		0.75	0.45	ug/m3			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:01	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 06:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/19/14 06:01*	*1*

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:56	1
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,4-Dichlorobenzene	0.10	J	0.20	0.064	ppb v/v			03/19/14 06:56	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:56	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
2-Butanone (MEK)	0.83	J	1.0	0.20	ppb v/v			03/19/14 06:56	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 06:56	1
2-Methylbutane	1.5		0.50	0.031	ppb v/v			03/19/14 06:56	1
2-Methylpentane	0.29		0.20	0.20	ppb v/v			03/19/14 06:56	1
4-Ethyltoluene	0.099	J	0.40	0.066	ppb v/v			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v			03/19/14 06:56	1
Acetone	5.5	J	5.0	1.4	ppb v/v			03/19/14 06:56	1
Benzene	0.37		0.20	0.056	ppb v/v			03/19/14 06:56	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:56	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
Carbon disulfide	0.042	J	0.50	0.031	ppb v/v			03/19/14 06:56	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:56	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:56	1
Chloroform	0.077	J	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chloromethane	0.64		0.50	0.16	ppb v/v			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:56	1
Cyclohexane	0.090	J	0.50	0.040	ppb v/v			03/19/14 06:56	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:56	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 06:56	1
Ethanol	56		2.0	2.0	ppb v/v			03/19/14 06:56	1
Ethylbenzene	0.18	J	0.20	0.068	ppb v/v			03/19/14 06:56	1
Heptane	0.18	J	0.50	0.047	ppb v/v			03/19/14 06:56	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:56	1
Hexane	0.31	J	0.50	0.032	ppb v/v			03/19/14 06:56	1

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:56	1
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v			03/19/14 06:56	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:56	1
Methylene Chloride	0.47	J	0.50	0.13	ppb v/v			03/19/14 06:56	1
m-Xylene & p-Xylene	0.61		0.20	0.12	ppb v/v			03/19/14 06:56	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:56	1
o-Xylene	0.24		0.20	0.061	ppb v/v			03/19/14 06:56	1
Propene	1.9	~~on~~ J	0.50	0.077	ppb v/v			03/19/14 06:56	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 06:56	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/19/14 06:56	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:56	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Toluene	1.1		0.20	0.12	ppb v/v			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:56	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 06:56	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:56	1
1,2,4-Trimethylbenzene	0.64	J	0.98	0.31	ug/m3			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:56	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:56	1
1,4-Dichlorobenzene	0.61	J	1.2	0.38	ug/m3			03/19/14 06:56	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:56	1
2,2,4-Trimethylpentane	0.72	J	2.3	0.18	ug/m3			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:56	1
2-Butanone (MEK)	2.5	J	2.9	0.59	ug/m3			03/19/14 06:56	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 06:56	1
2-Methylbutane	4.4		1.5	0.091	ug/m3			03/19/14 06:56	1
2-Methylpentane	1.0		0.70	0.70	ug/m3			03/19/14 06:56	1
4-Ethyltoluene	0.49	J	2.0	0.32	ug/m3			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3			03/19/14 06:56	1
Acetone	13	J	12	3.3	ug/m3			03/19/14 06:56	1

Client Sample ID: PCV-IA2-B11
Date Collected: 03/12/14 16:32
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-11
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 06:56	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:56	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:56	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:56	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:56	1
Carbon disulfide	0.13	J	1.6	0.097	ug/m3			03/19/14 06:56	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/19/14 06:56	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:56	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:56	1
Chloroform	0.38	J	0.98	0.19	ug/m3			03/19/14 06:56	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:56	1
Cyclohexane	0.31	J	1.7	0.14	ug/m3			03/19/14 06:56	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:56	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 06:56	1
Ethanol	110		3.8	3.8	ug/m3			03/19/14 06:56	1
Ethylbenzene	0.77	J	0.87	0.30	ug/m3			03/19/14 06:56	1
Heptane	0.73	J	2.0	0.19	ug/m3			03/19/14 06:56	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:56	1
Hexane	1.1	J	1.8	0.11	ug/m3			03/19/14 06:56	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:56	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:56	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/19/14 06:56	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:56	1
Methylene Chloride	1.6	J	1.7	0.45	ug/m3			03/19/14 06:56	1
m-Xylene & p-Xylene	2.7		0.87	0.52	ug/m3			03/19/14 06:56	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:56	1
o-Xylene	1.0		0.87	0.26	ug/m3			03/19/14 06:56	1
Propene	3.2	~~cn~~ J	0.86	0.13	ug/m3			03/19/14 06:56	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 06:56	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/19/14 06:56	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:56	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:56	1
Toluene	4.3		0.75	0.45	ug/m3			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:56	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:56	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 06:56	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/19/14 06:56*	*1*

Client Sample ID: PCV-IA3-B11
Date Collected: 03/12/14 16:30
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	0.21		0.20	0.063	ppb v/v			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v			03/19/14 07:51	1.64
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
2-Butanone (MEK)	1.6		1.0	0.20	ppb v/v			03/19/14 07:51	1.64
2-Hexanone	0.088	J	0.50	0.058	ppb v/v			03/19/14 07:51	1.64
2-Methylbutane	1.4		0.50	0.031	ppb v/v			03/19/14 07:51	1.64
2-Methylpentane	0.33		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
4-Ethyltoluene	0.31	J	0.40	0.066	ppb v/v			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	0.56		0.50	0.045	ppb v/v			03/19/14 07:51	1.64
Acetone	7.1	J	5.0	1.4	ppb v/v			03/19/14 07:51	1.64
Benzene	0.40		0.20	0.056	ppb v/v			03/19/14 07:51	1.64
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 07:51	1.64
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v			03/19/14 07:51	1.64
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 07:51	1.64
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 07:51	1.64
Chloroform	0.40		0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chloromethane	0.59		0.50	0.16	ppb v/v			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 07:51	1.64
Cyclohexane	0.10	J	0.50	0.040	ppb v/v			03/19/14 07:51	1.64
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 07:51	1.64
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Ethanol	110		2.0	2.0	ppb v/v			03/19/14 07:51	1.64
Ethylbenzene	0.21		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Heptane	0.24	J	0.50	0.047	ppb v/v			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 07:51	1.64
Hexane	0.42	J	0.50	0.032	ppb v/v			03/19/14 07:51	1.64

Client Sample ID: PCV-IA3-B11
Date Collected: 03/12/14 16:30
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Indene	ND		0.40	0.40	ppb v/v			03/19/14 07:51	1.64
Isopropyl alcohol	8.9		2.0	0.094	ppb v/v			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 07:51	1.64
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/19/14 07:51	1.64
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 07:51	1.64
o-Xylene	0.31		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
Propene	1.7	~~en~~ J	0.50	0.077	ppb v/v			03/19/14 07:51	1.64
Styrene	0.12	J	0.20	0.058	ppb v/v			03/19/14 07:51	1.64
Tetrachloroethene	0.20		0.20	0.040	ppb v/v			03/19/14 07:51	1.64
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 07:51	1.64
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Toluene	1.3		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 07:51	1.64
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 07:51	1.64
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 07:51	1.64

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	1.0		0.98	0.31	ug/m3			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 07:51	1.64
1,4-Dichlorobenzene	0.86	J	1.2	0.38	ug/m3			03/19/14 07:51	1.64
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 07:51	1.64
2-Butanone (MEK)	4.6		2.9	0.59	ug/m3			03/19/14 07:51	1.64
2-Hexanone	0.36	J	2.0	0.24	ug/m3			03/19/14 07:51	1.64
2-Methylbutane	4.1		1.5	0.091	ug/m3			03/19/14 07:51	1.64
2-Methylpentane	1.2		0.70	0.70	ug/m3			03/19/14 07:51	1.64
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	2.3		2.0	0.18	ug/m3			03/19/14 07:51	1.64
Acetone	17 J		12	3.3	ug/m3			03/19/14 07:51	1.64

Client Sample ID: PCV-IA3-B11
Date Collected: 03/12/14 16:30
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/19/14 07:51	1.64
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 07:51	1.64
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 07:51	1.64
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 07:51	1.64
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 07:51	1.64
Carbon disulfide	0.12	J	1.6	0.097	ug/m3			03/19/14 07:51	1.64
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 07:51	1.64
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 07:51	1.64
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 07:51	1.64
Chloroform	2.0		0.98	0.19	ug/m3			03/19/14 07:51	1.64
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 07:51	1.64
Cyclohexane	0.36	J	1.7	0.14	ug/m3			03/19/14 07:51	1.64
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 07:51	1.64
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 07:51	1.64
Ethanol	210		3.8	3.8	ug/m3			03/19/14 07:51	1.64
Ethylbenzene	0.93		0.87	0.30	ug/m3			03/19/14 07:51	1.64
Heptane	0.97	J	2.0	0.19	ug/m3			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 07:51	1.64
Hexane	1.5	J	1.8	0.11	ug/m3			03/19/14 07:51	1.64
Indane	ND		0.97	0.97	ug/m3			03/19/14 07:51	1.64
Indene	ND		1.9	1.9	ug/m3			03/19/14 07:51	1.64
Isopropyl alcohol	22		4.9	0.23	ug/m3			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 07:51	1.64
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/19/14 07:51	1.64
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3			03/19/14 07:51	1.64
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 07:51	1.64
o-Xylene	1.4		0.87	0.26	ug/m3			03/19/14 07:51	1.64
Propene	3.0	~~CR~~ J	0.86	0.13	ug/m3			03/19/14 07:51	1.64
Styrene	0.52	J	0.85	0.25	ug/m3			03/19/14 07:51	1.64
Tetrachloroethene	1.4		1.4	0.27	ug/m3			03/19/14 07:51	1.64
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 07:51	1.64
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 07:51	1.64
Toluene	5.0		0.75	0.45	ug/m3			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 07:51	1.64
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 07:51	1.64
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 07:51	1.64
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 07:51	1.64

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*03/19/14 07:51*	*1.64*

Client Sample ID: PCV-IA1-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 21:00	1
1,2,4-Trimethylbenzene	0.52		0.20	0.063	ppb v/v			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 21:00	1
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v			03/18/14 21:00	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 21:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 21:00	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
2-Butanone (MEK)	3.1		1.0	0.20	ppb v/v			03/18/14 21:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 21:00	1
2-Methylbutane	2.9		0.50	0.031	ppb v/v			03/18/14 21:00	1
2-Methylpentane	0.27		0.20	0.20	ppb v/v			03/18/14 21:00	1
4-Ethyltoluene	0.30	J	0.40	0.066	ppb v/v			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	0.44	J	0.50	0.045	ppb v/v			03/18/14 21:00	1
~~Acetone~~	~~270~~	~~E~~	~~5.0~~	~~1.4~~	~~ppb v/v~~			~~03/18/14 21:00~~	~~1~~
Benzene	0.41		0.20	0.056	ppb v/v			03/18/14 21:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 21:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
Carbon disulfide	0.13	J	0.50	0.031	ppb v/v			03/18/14 21:00	1
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 21:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 21:00	1
Chloroform	0.053	J	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chloromethane	0.59		0.50	0.16	ppb v/v			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 21:00	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/18/14 21:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 21:00	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/18/14 21:00	1
~~Ethanol~~	~~200~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/18/14 21:00~~	~~1~~
Ethylbenzene	4.6		0.20	0.068	ppb v/v			03/18/14 21:00	1
Heptane	0.39	J	0.50	0.047	ppb v/v			03/18/14 21:00	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 21:00	1
Hexane	0.35	J	0.50	0.032	ppb v/v			03/18/14 21:00	1

Client Sample ID: PCV-IA1-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 21:00	1
Isopropyl alcohol	4.3		2.0	0.094	ppb v/v			03/18/14 21:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 21:00	1
Methylene Chloride	14		0.50	0.13	ppb v/v			03/18/14 21:00	1
m-Xylene & p-Xylene	19		0.20	0.12	ppb v/v			03/18/14 21:00	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 21:00	1
o-Xylene	5.2		0.20	0.061	ppb v/v			03/18/14 21:00	1
Propene	31	~~on~~ J	0.50	0.077	ppb v/v			03/18/14 21:00	1
Styrene	0.93		0.20	0.058	ppb v/v			03/18/14 21:00	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/18/14 21:00	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 21:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
~~Toluene~~	~~130~~	~~E~~	~~0.20~~	~~0.12~~	~~ppb v/v~~			~~03/18/14 21:00~~	~~1~~
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Trichloroethene	0.057	J	0.20	0.036	ppb v/v			03/18/14 21:00	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/18/14 21:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 21:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 21:00	1
1,2,4-Trimethylbenzene	2.5		0.98	0.31	ug/m3			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 21:00	1
1,3,5-Trimethylbenzene	0.66	J	0.98	0.32	ug/m3			03/18/14 21:00	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 21:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 21:00	1
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 21:00	1
2-Butanone (MEK)	9.2		2.9	0.59	ug/m3			03/18/14 21:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 21:00	1
2-Methylbutane	8.5		1.5	0.091	ug/m3			03/18/14 21:00	1
2-Methylpentane	0.94		0.70	0.70	ug/m3			03/18/14 21:00	1
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	1.8	J	2.0	0.18	ug/m3			03/18/14 21:00	1
~~Acetone~~	~~640~~	~~E~~	~~12~~	~~3.3~~	~~ug/m3~~			~~03/18/14 21:00~~	~~1~~

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-16
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/18/14 21:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 21:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 21:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 21:00	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 21:00	1
Carbon disulfide	0.39	J	1.6	0.097	ug/m3			03/18/14 21:00	1
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/18/14 21:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 21:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 21:00	1
Chloroform	0.26	J	0.98	0.19	ug/m3			03/18/14 21:00	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 21:00	1
Cyclohexane	0.42	J	1.7	0.14	ug/m3			03/18/14 21:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 21:00	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/18/14 21:00	1
~~Ethanol~~	~~390~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/18/14 21:00~~	~~1~~
Ethylbenzene	20		0.87	0.30	ug/m3			03/18/14 21:00	1
Heptane	1.6	J	2.0	0.19	ug/m3			03/18/14 21:00	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 21:00	1
Hexane	1.2	J	1.8	0.11	ug/m3			03/18/14 21:00	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 21:00	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 21:00	1
Isopropyl alcohol	10		4.9	0.23	ug/m3			03/18/14 21:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 21:00	1
Methylene Chloride	50		1.7	0.45	ug/m3			03/18/14 21:00	1
m-Xylene & p-Xylene	81		0.87	0.52	ug/m3			03/18/14 21:00	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 21:00	1
o-Xylene	23		0.87	0.26	ug/m3			03/18/14 21:00	1
Propene	53	~~on~~ J	0.86	0.13	ug/m3			03/18/14 21:00	1
Styrene	4.0		0.85	0.25	ug/m3			03/18/14 21:00	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/18/14 21:00	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 21:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 21:00	1
~~Toluene~~	~~500~~	~~E~~	~~0.75~~	~~0.45~~	~~ug/m3~~			~~03/18/14 21:00~~	~~1~~
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 21:00	1
Trichloroethene	0.31	J	1.1	0.19	ug/m3			03/18/14 21:00	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/18/14 21:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/18/14 21:00*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	260	J	91	25	ppb v/v			03/20/14 07:15	1
Ethanol	200		36	36	ppb v/v			03/20/14 07:15	1
Toluene	110		3.6	2.2	ppb v/v			03/20/14 07:15	1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	630	J	220	60	ug/m3			03/20/14 07:15	1
Ethanol	380		69	69	ug/m3			03/20/14 07:15	1
Toluene	420		14	8.2	ug/m3			03/20/14 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*60 - 140*		*03/20/14 07:15*	*1*

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 09:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 09:39	1
1,2,4-Trimethylbenzene	0.35		0.20	0.063	ppb v/v			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 09:39	1
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v			03/19/14 09:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 09:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 09:39	1
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
2-Butanone (MEK)	3.3		1.0	0.20	ppb v/v			03/19/14 09:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 09:39	1
2-Methylbutane	3.2		0.50	0.031	ppb v/v			03/19/14 09:39	1
2-Methylpentane	0.32		0.20	0.20	ppb v/v			03/19/14 09:39	1
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	0.62		0.50	0.045	ppb v/v			03/19/14 09:39	1
~~Acetone~~	~~230~~	~~E~~	~~5.0~~	~~1.4~~	~~ppb v/v~~			~~03/19/14 09:39~~	~~1~~
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 09:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 09:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
Carbon disulfide	0.24	J	0.50	0.031	ppb v/v			03/19/14 09:39	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 09:39	1

Client Sample ID: PCV-IA2-B5
Date Collected: 03/12/14 15:56
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 09:39	1
Chloroform	0.089	J	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 09:39	1
Cyclohexane	0.18	J	0.50	0.040	ppb v/v			03/19/14 09:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 09:39	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/19/14 09:39	1
Ethanol	200		2.0	2.0	ppb v/v			03/19/14 09:39	1
Ethylbenzene	3.2		0.20	0.068	ppb v/v			03/19/14 09:39	1
Heptane	0.44	J	0.50	0.047	ppb v/v			03/19/14 09:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 09:39	1
Hexane	0.38	J	0.50	0.032	ppb v/v			03/19/14 09:39	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 09:39	1
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v			03/19/14 09:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 09:39	1
Methylene Chloride	17		0.50	0.13	ppb v/v			03/19/14 09:39	1
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v			03/19/14 09:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 09:39	1
o-Xylene	3.3		0.20	0.061	ppb v/v			03/19/14 09:39	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 09:39	1
Styrene	0.91		0.20	0.058	ppb v/v			03/19/14 09:39	1
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v			03/19/14 09:39	1
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v			03/19/14 09:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
~~Toluene~~	~~100~~	~~E~~	~~0.20~~	~~0.12~~	~~ppb v/v~~			~~03/19/14 09:39~~	~~1~~
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Trichloroethene	0.061	J	0.20	0.036	ppb v/v			03/19/14 09:39	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 09:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 09:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 09:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 09:39	1
1,2,4-Trimethylbenzene	1.7		0.98	0.31	ug/m3			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 09:39	1
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3			03/19/14 09:39	1

Client Sample ID: PCV-IA2-B5
Date Collected: 03/12/14 15:56
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-17
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 09:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 09:39	1
2,2,4-Trimethylpentane	0.75	J	2.3	0.18	ug/m3			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 09:39	1
2-Butanone (MEK)	9.8		2.9	0.59	ug/m3			03/19/14 09:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 09:39	1
2-Methylbutane	9.4		1.5	0.091	ug/m3			03/19/14 09:39	1
2-Methylpentane	1.1		0.70	0.70	ug/m3			03/19/14 09:39	1
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	2.6		2.0	0.18	ug/m3			03/19/14 09:39	1
Acetone	540	E	12	3.3	ug/m3			03/19/14 09:39	1
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 09:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 09:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 09:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 09:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 09:39	1
Carbon disulfide	0.74	J	1.6	0.097	ug/m3			03/19/14 09:39	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 09:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 09:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 09:39	1
Chloroform	0.43	J	0.98	0.19	ug/m3			03/19/14 09:39	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 09:39	1
Cyclohexane	0.63	J	1.7	0.14	ug/m3			03/19/14 09:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 09:39	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 09:39	1
Ethanol	370		3.8	3.8	ug/m3			03/19/14 09:39	1
Ethylbenzene	14		0.87	0.30	ug/m3			03/19/14 09:39	1
Heptane	1.8	J	2.0	0.19	ug/m3			03/19/14 09:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 09:39	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/19/14 09:39	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 09:39	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 09:39	1
Isopropyl alcohol	11		4.9	0.23	ug/m3			03/19/14 09:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 09:39	1
Methylene Chloride	59		1.7	0.45	ug/m3			03/19/14 09:39	1
m-Xylene & p-Xylene	53		0.87	0.52	ug/m3			03/19/14 09:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 09:39	1
o-Xylene	14		0.87	0.26	ug/m3			03/19/14 09:39	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 09:39	1
Styrene	3.9		0.85	0.25	ug/m3			03/19/14 09:39	1
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3			03/19/14 09:39	1
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3			03/19/14 09:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 09:39	1
Toluene	380	E	0.75	0.45	ug/m3			03/19/14 09:39	1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 09:39	1
Trichloroethene	0.33	J	1.1	0.19	ug/m3			03/19/14 09:39	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 09:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*03/19/14 09:39*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	220		91	25	ppb v/v			03/24/14 13:17	1
Toluene	65		3.6	2.2	ppb v/v			03/24/14 13:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	510		220	60	ug/m3			03/24/14 13:17	1
Toluene	250		14	8.2	ug/m3			03/24/14 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*03/24/14 13:17*	*1*

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59
Matrix: Air
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 15:32	1
1,2,4-Trimethylbenzene	0.48		0.20	0.063	ppb v/v			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 15:32	1
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v			03/21/14 15:32	1
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 15:32	1
1,4-Dichlorobenzene	0.095	J	0.20	0.064	ppb v/v			03/21/14 15:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 15:32	1
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
2-Butanone (MEK)	8.6		1.0	0.20	ppb v/v			03/21/14 15:32	1

Client Sample ID: PCV-IAPC-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 15:32	1
2-Methylbutane	3.2		0.50	0.031	ppb v/v			03/21/14 15:32	1
2-Methylpentane	0.24		0.20	0.20	ppb v/v			03/21/14 15:32	1
4-Ethyltoluene	0.22	J	0.40	0.066	ppb v/v			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	3.3		0.50	0.045	ppb v/v			03/21/14 15:32	1
Acetone	9.8	J	5.0	1.4	ppb v/v			03/21/14 15:32	1
Benzene	0.37		0.20	0.056	ppb v/v			03/21/14 15:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 15:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
Carbon disulfide	0.054	J	0.50	0.031	ppb v/v			03/21/14 15:32	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 15:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 15:32	1
Chloroform	0.064	J	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 15:32	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/21/14 15:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 15:32	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/21/14 15:32	1
~~Ethanol~~	~~720~~	~~E~~	~~2.0~~	~~2.0~~	~~ppb v/v~~			~~03/21/14 15:32~~	~~1~~
Ethylbenzene	1.3		0.20	0.068	ppb v/v			03/21/14 15:32	1
Heptane	1.2		0.50	0.047	ppb v/v			03/21/14 15:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 15:32	1
Hexane	0.30	J	0.50	0.032	ppb v/v			03/21/14 15:32	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 15:32	1
Isopropyl alcohol	8.5		2.0	0.094	ppb v/v			03/21/14 15:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 15:32	1
~~Methylene Chloride~~	~~46~~	~~E~~	~~0.50~~	~~0.13~~	~~ppb v/v~~			~~03/21/14 15:32~~	~~1~~
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v			03/21/14 15:32	1
Naphthalene	0.10	J	0.50	0.090	ppb v/v			03/21/14 15:32	1
o-Xylene	1.6		0.20	0.061	ppb v/v			03/21/14 15:32	1
Propene	1.1	~~on~~ J	0.50	0.077	ppb v/v			03/21/14 15:32	1
Styrene	9.5		0.20	0.058	ppb v/v			03/21/14 15:32	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/21/14 15:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 15:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Toluene	17		0.20	0.12	ppb v/v			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Trichloroethene	0.23		0.20	0.036	ppb v/v			03/21/14 15:32	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/21/14 15:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 15:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 15:32	1

Client Sample ID: PCV-IAPC-B5
Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 15:32	1
1,2,4-Trimethylbenzene	2.3		0.98	0.31	ug/m3			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 15:32	1
1,3,5-Trimethylbenzene	0.62	J	0.98	0.32	ug/m3			03/21/14 15:32	1
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 15:32	1
1,4-Dichlorobenzene	0.57	J	1.2	0.38	ug/m3			03/21/14 15:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 15:32	1
2,2,4-Trimethylpentane	0.67	J	2.3	0.18	ug/m3			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 15:32	1
2-Butanone (MEK)	25		2.9	0.59	ug/m3			03/21/14 15:32	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 15:32	1
2-Methylbutane	9.4		1.5	0.091	ug/m3			03/21/14 15:32	1
2-Methylpentane	0.85		0.70	0.70	ug/m3			03/21/14 15:32	1
4-Ethyltoluene	1.1	J	2.0	0.32	ug/m3			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	13		2.0	0.18	ug/m3			03/21/14 15:32	1
Acetone	23	J	12	3.3	ug/m3			03/21/14 15:32	1
Benzene	1.2		0.64	0.18	ug/m3			03/21/14 15:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 15:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 15:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 15:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 15:32	1
Carbon disulfide	0.17	J	1.6	0.097	ug/m3			03/21/14 15:32	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/21/14 15:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 15:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 15:32	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/21/14 15:32	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 15:32	1
Cyclohexane	0.42	J	1.7	0.14	ug/m3			03/21/14 15:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 15:32	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/21/14 15:32	1
~~Ethanol~~	~~1400~~	~~E~~	~~3.8~~	~~3.8~~	~~ug/m3~~			~~03/21/14 15:32~~	~~1~~
Ethylbenzene	5.5		0.87	0.30	ug/m3			03/21/14 15:32	1
Heptane	5.0		2.0	0.19	ug/m3			03/21/14 15:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 15:32	1
Hexane	1.0	J	1.8	0.11	ug/m3			03/21/14 15:32	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 15:32	1

Client Sample ID: PCV-IAPC-B5

Date Collected: 03/12/14 15:59
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-18
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/21/14 15:32	1
Isopropyl alcohol	21		4.9	0.23	ug/m3			03/21/14 15:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 15:32	1
~~Methylene Chloride~~	~~160~~	~~E~~	~~1.7~~	~~0.45~~	~~ug/m3~~			~~03/21/14 15:32~~	~~1~~
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3			03/21/14 15:32	1
Naphthalene	0.54	J	2.6	0.47	ug/m3			03/21/14 15:32	1
o-Xylene	6.9		0.87	0.26	ug/m3			03/21/14 15:32	1
Propene	1.9	~~or~~ J	0.86	0.13	ug/m3			03/21/14 15:32	1
Styrene	40		0.85	0.25	ug/m3			03/21/14 15:32	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/21/14 15:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 15:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 15:32	1
Toluene	65		0.75	0.45	ug/m3			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 15:32	1
Trichloroethene	1.2		1.1	0.19	ug/m3			03/21/14 15:32	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/21/14 15:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*03/21/14 15:32*	*1*

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	760		20	20	ppb v/v			03/24/14 14:38	1
Methylene Chloride	33		5.0	1.3	ppb v/v			03/24/14 14:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1400		38	38	ug/m3			03/24/14 14:38	1
Methylene Chloride	120		17	4.5	ug/m3			03/24/14 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*60 - 140*		*03/24/14 14:38*	*1*

Client Sample ID: AMB-1

Date Collected: 03/13/14 16:25
Date Received: 03/17/14 11:15
Sample Container: Summa Canister 6L

Lab Sample ID: 140-1063-19
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 19:31	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 19:31	1

Appendix C

Support Documentation

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1037-1	PCV-IA1-B10	Air	03/10/14 16:15	03/12/14 08:45
140-1037-2	PCV-IA2-B10	Air	03/10/14 14:00	03/12/14 08:45
140-1037-3	PCV-IA3-B10	Air	03/10/14 16:15	03/12/14 08:45
140-1037-4	PCV-IALC-B10	Air	03/10/14 16:30	03/12/14 08:45
140-1037-5	PCV-AMB-2	Air	03/10/14 15:30	03/12/14 08:45
140-1037-6	PCV-IA2-B16	Air	03/10/14 16:30	03/12/14 08:45
140-1037-7	PCV-IA1-B16	Air	03/10/14 16:42	03/12/14 08:45
140-1037-8	PCV-IA3-B16	Air	03/10/14 16:35	03/12/14 08:45
140-1037-9	PCV-IA2-B18	Air	03/10/14 17:08	03/12/14 08:45
140-1037-10	PCV-IA3-B18	Air	03/10/14 17:12	03/12/14 08:45
140-1037-11	PCV-IA1-B18	Air	03/10/14 17:18	03/12/14 08:45
140-1037-12	PCV-IATC-B18	Air	03/10/14 17:15	03/12/14 08:45
140-1037-13	PCV-AMB1	Air	03/10/14 16:59	03/12/14 08:45

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Sara Meissner	COC No: 1 of 3 COCs
Company Name: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		For Lab Use Only:
City/State/Zip: New York, NY 10004	Site Contact: Jessica Fehlen		Walk-in Client:
Phone: 212-377-8400	TA Contact: Jamie McKinney		Lab Sampling:
FAX: 212-377-8410	Anaylsis Turnaround Time		Job / SDG No.:
Project Name: Peter Cooper Village 1A	Standard (Specific): X		(See below for Add'l Items)
Site/Location: Peter Cooper Village, NYC	Rush (Specify):		
PO#			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med+Std+Low+SIM) 3 Hour List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3688	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type: Canister ID	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B10	3/10/14	0827	1615	-28	-4	K503	09597	X								X	X					62°F
PCV-1A2-B10	3/10/14	0836	1400	-30	-5	K101	10178	X								X	X					62°F
PCV-1A3-B10	3/10/14	0840	1615	-30	-4	K354	11040	X								X	X					65°F
PCV-1ALC-B10	3/10/14	0846	1630	-30	-5	K455	09595	X								X	X					67°F
PCV-AMB-2	3/10/14	0852	1530	-30	-4	K441	09613	X								X		X				45°F

140-1037 Chain of Custody

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	Temperature (Fahrenheit)			
S. Meissner	Start	Interior	Ambient ~~OUTSIDE~~ Ambient	
	Stop	—	Start 40°F	Stop 52°F
S. Meissner	~~Temperature (Fahrenheit)~~			Pressure (Hg)
	Start	Interior	Ambient	29.86
	Stop	—	~~OUTSIDE~~	29.71

3 BOXES NO CUSTODY SEALS
RECEIVED @ AMBIENT TEMP
R.H 3/12/14
3 BOXES MSTR# 798177027991 SD
13 CANS, 13 FLOWS

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: R. Hamlett 3/12/14 08:45
Samples Relinquished by:	Date / Time: 3/10/14 1647	Received by:
Relinquished by:	Date / Time: 3/10/14 18:10	Received by:
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

140037.8

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeffer	Samples Collected By: Kristen Barbaur	COC No:
Company Name: AECOM	Phone: 516-581-7313		2 of 3 COCs
Address: 125 Broad St	Email:		
City/State/Zip: NY, NY 10004			For Lab Use Only:
Phone: 212 377-8160	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212 377 8710	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village IA	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Peter Cooper Village NYC	Standard (Specific): Standard		(See below for Add'l Items)
PO#	Rush (Specify):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) + CarbEdit MSP List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type: Grab / 24hr	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA2-B16	3/10/14	9:11	16:30	-30	-6	10853	10806	X								X	X					temp 71°F FC# 10853
PCV-IA1-B16	3/10/14	9:19	16:42	-30	-5.5	10630	10369	X								X	X					temp 72°F FC# 10630 not used
PCV-IA3-B16	3/10/14	9:16	16:35	-30	-6.5	10358	10536	X								X	X					temp 72°F
PCV-IA2-B18	3/10/14	9:37	17:08	-30	-6	10647	11044	X								X	X					temp 71°F
PCV-IA3-B18	3/10/14	9:41	17:12	-27	-4	10645	10721	X								X	X					temp 63°F
PCV-IA1-B18	3/10/14	9:42	17:18	-30	-5.5	09715	10129	X								X	X					temp 65°F
PCV-IA2-B18	3/10/14	9:44	17:15	-30	-5	10630	09583	X								X	X					flow control #10361 not used for sample temp 65°F

	Temperature (Fahrenheit)			
Kristen Barbaur	Start	Interior	Ambient 40°F	52°F
	Stop			

Note: FC #10845 not used on IA2-B16
FC #10630 not used on IA1-B16

	Temperature (Fahrenheit)		Pressure (inches of Hg)
Kristen Barbaur	Start	Interior	Ambient	29.86
	Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: Rita Hancock 3/12/14 08:45
Samples Relinquished by: Kristen Barbaur	Date / Time: 3/10/14 17:36	Received by:
Relinquished by:	Date / Time: 3/10/14 18:10	Received by:
For Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No:
Company Name: AECOM	Phone: 516-586-7313		3 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8706	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212-377-8401	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village 1A	Analysis Turnaround Time		Job / SDG No.:
Site/Location: Peter Cooper Village, NY	Standard (Specific): X		(See below for Add'l Items)
PO #	Rush (Specify):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type - Composite	Indoor Air	Ambient Air (outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A3-B21	3-10-14	9:10	16:15	-30	-5	10063	10857	X								X	X	3C				Temp = 75°F
PCV-1A2-B19	3-10-14	8:54	16:18	-30	-5	10623	10422	X								X	X					Temp = 68°F
PCV-1A1-B21	3-10-14	9:13	17:15	-30	-5	09862	10556	X								X	X					Temp = 68°F 75°F
PCV-1A1-B19	3-10-14	8:43	16:42	-29	-5.5	10505	11039	X								X	X					Temp = 68°F
PCV-1A3-B19	3-10-14	8:48	16:48	-30	-8	10592	09822	X								X	X					Temp = 68°F
PCV-AMB1	3-10-14	10:09	16:59	-29	-7	10241	10812	X								X		X				Temp = 42°F
PCV-1A2-B21	3-10-14	9:22	17:10	-30	-6	10599	10092	X								X	X					Temp = 73°F

	Temperature (Fahrenheit)			
J. Christoffel	Start	Interior	Ambient 40°F	
	Stop	3C	52°F	
J. Christoffel	Start	Interior	Ambient 29.86	Barometric (in Hg)
	Stop		29.71	

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by: Rita Hancock 3/12/14 08:45
Samples Relinquished by: J. Christoffel	Date / Time: 3-10-14 15:35 PM	Received by:
Relinquished by:	Date / Time: 3/10/14 18:10	Received by:
Lab Use Only: Shipper Name:	Obtained by:	Condition:

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
AFB	3/12/2014	1515	140-1037-a-1	X		-2.7	
AFB	3/12/2014	1516	140-1037-a-2	X		-4.2	
AFB	3/12/2014	1517	140-1037-a-3	X		-1.4	
AFB	3/12/2014	1518	140-1037-a-4	X		-5.2	
AFB	3/12/2014	1519	140-1037-a-5	X		-1.4	
AFB	3/12/2014	1520	140-1037-a-6	X		-4.7	
AFB	3/12/2014	1543	140-1037-a-7	X		-5.2	
AFB	3/12/2014	1544	140-1037-a-8	X		-5.3	
AFB	3/12/2014	1545	140-1037-a-9	X		-5.2	
AFB	3/12/2014	1546	140-1037-a-10	X		-3.6	
AFB	3/12/2014	1547	140-1037-a-11	X		-4.3	
AFB	3/12/2014	1548	140-1037-a-12	X		-4.4	
AFB	3/12/2014	1549	140-1037-a-13	X		-5.5	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1037-1

Login Number: 1037
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Job Narrative
140-1037-1

Comments
No additional comments.

Receipt
The samples were received on 3/12/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: . PCV-IA3-B21, PCV-IA2-B19, PCV-IA1-B21, PCV-IA1-B19, PCV-IA3-B19, PCV-IA2-B21

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++	+++++	0.8601	1.1107	0.5039	Ave		0.6547				37.0	*	30.0			
	0.5268	0.5924	0.5062	0.4830													
Hexane	+++++	1.2793	1.1645	1.0729	1.0983	Ave		1.0640				11.0		30.0			
	1.0521	1.0059	0.9370	0.9019													
C6 Range	+++++	+++++	3.3356	3.4064	2.6621	Ave		2.7373				17.0		30.0			
	2.7654	2.5187	2.2767	2.1965													
cis-1,2-Dichloroethene	1.3889	1.4224	1.4697	1.3680	1.4258	Ave		1.3612				6.2		30.0			
	1.3728	1.3438	1.2497	1.2095													
Ethyl acetate	2.5552	2.1948	2.3675	2.2288	1.7988	Ave		2.1300				12.0		30.0			
	1.9215	2.2295	1.9811	1.8925													
Chloroform	3.7867	3.8316	3.8044	3.5448	3.5677	Ave		3.4271				12.0		30.0			
	3.3848	3.2852	2.9281	2.7108													
Tetrahydrofuran	1.1554	1.0993	1.1611	1.0713	0.8636	Ave		1.0261				11.0		30.0			
	0.9205	1.0675	0.9604	0.9360													
1,1,1-Trichloroethane	4.3435	4.3129	4.2088	4.0462	4.0377	Ave		3.8877				11.0		30.0			
	3.8810	3.7622	3.3408	3.0559													
1,2-Dichloroethane	0.5109	0.5474	0.5637	0.5166	0.4621	Ave		0.4903				10.0		30.0			
	0.4936	0.4768	0.4305	0.4107													
1-Butanol	+++++	+++++	0.0709	0.0941	0.0679	Ave		0.0746				15.0		30.0			
	0.0857	0.0639	0.0712	0.0682													
Cyclohexane	0.1482	0.1791	0.1650	0.1462	0.1558	Ave		0.1509				11.0		30.0			
	0.1621	0.1412	0.1323	0.1285													
Benzene	0.9673	0.9062	0.9156	0.8225	0.7228	Ave		0.8050				13.0		30.0			
	0.7817	0.7711	0.7033	0.6545													
Carbon tetrachloride	0.7885	0.8824	0.8363	0.7170	0.8449	Ave		0.7733				11.0		30.0			
	0.8484	0.7486	0.6619	0.6317													
2,3-Dimethylpentane	0.1905	0.2161	0.1974	0.1859	0.1912	Ave		0.1874				8.5		40.0			
	0.1954	0.1776	0.1664	0.1660													
Thiophene	0.5338	0.5459	0.5523	0.5089	0.4677	Ave		0.5002				7.9		40.0			
	0.5013	0.4962	0.4549	0.4410													
2,2,4-Trimethylpentane	1.3499	1.4560	1.3618	1.2643	1.2673	Ave		1.2427				12.0		30.0			
	1.2995	1.1648	1.0472	0.9736													
Heptane	+++++	+++++	0.3458	0.3110	0.3098	Ave		0.3047				8.7		30.0			
	0.3231	0.2984	0.2744	0.2705													
1,2-Dichloropropane	0.2656	0.2845	0.2902	0.2690	0.2283	Ave		0.2586				8.2		30.0			
	0.2506	0.2604	0.2407	0.2379													
Trichloroethene	0.4144	0.4415	0.4237	0.3955	0.4018	Ave		0.3975				7.8		30.0			
	0.4153	0.3821	0.3548	0.3483													
Dibromomethane	0.4031	0.4211	0.4155	0.3885	0.3643	Ave		0.3799				8.5		30.0			
	0.3887	0.3711	0.3395	0.3270													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII

AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo(b)thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6746		2.40	2.00	20.2	30.0
Propene	Ave	1.006	0.9746		1.94	2.00	-3.1	30.0
Dichlorodifluoromethane	Ave	4.425	5.292		2.39	2.00	19.6	30.0
Chloromethane	Ave	0.3532	0.3910		2.21	2.00	10.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.094		2.32	2.00	16.0	30.0
Acetaldehyde	Ave	0.3349	0.3202		9.56	10.0	-4.4	50.0
Vinyl chloride	Ave	1.364	1.675		2.46	2.00	22.8	30.0
1,3-Butadiene	Ave	0.9428	1.089		2.31	2.00	15.5	30.0
Butane	Ave	1.913	2.133		2.23	2.00	11.5	30.0
Bromomethane	Ave	1.473	1.810		2.46	2.00	22.9	30.0
Chloroethane	Ave	0.6922	0.8215		2.37	2.00	18.7	30.0
Ethanol	Ave	0.4001	0.3541		8.85	10.0	-11.5	50.0
Vinyl bromide	Ave	1.331	1.688		2.54	2.00	26.8	30.0
2-Methylbutane	Ave	1.401	1.584		2.26	2.00	13.0	30.0
Trichlorofluoromethane	Ave	4.438	5.412		2.44	2.00	21.9	30.0
Acrolein	Ave	0.4230	0.3910		1.85	2.00	-7.6	30.0
Acetonitrile	Ave	0.3806	0.3630		1.91	2.00	-4.6	30.0
Acetone	Ave	0.6059	0.4459		1.47	2.00	-26.4	30.0
Pentane	Ave	0.2626	0.3274		2.49	2.00	24.7	30.0
Isopropyl alcohol	Ave	1.560	1.383		1.77	2.00	-11.3	30.0
Ethyl ether	Ave	1.018	0.8964		1.76	2.00	-11.9	30.0
1,1-Dichloroethene	Ave	1.190	1.255		2.11	2.00	5.4	30.0
tert-Butyl alcohol	Ave	2.208	1.828		1.66	2.00	-17.2	30.0
Acrylonitrile	Ave	0.7008	0.5873		1.68	2.00	-16.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	2.920		2.13	2.00	6.3	30.0
Methylene Chloride	Ave	1.143	1.187		2.08	2.00	3.8	30.0
3-Chloropropene	Ave	1.349	1.219		1.81	2.00	-9.7	30.0
Carbon disulfide	Ave	4.140	4.595		2.22	2.00	11.0	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.502		2.06	2.00	3.0	30.0
2-Methylpentane	Ave	2.634	2.426		1.84	2.00	-7.9	50.0
Methyl tert-butyl ether	Ave	3.630	3.354		1.85	2.00	-7.6	30.0
1,1-Dichloroethane	Ave	2.467	2.290		1.86	2.00	-7.2	30.0
Vinyl acetate	Ave	2.433	1.991		1.64	2.00	-18.2	30.0
2-Butanone (MEK)	Ave	0.6547	0.4678		1.43	2.00	-28.6	30.0
Hexane	Ave	1.064	0.9938		1.87	2.00	-6.6	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.342		1.97	2.00	-1.4	30.0
Ethyl acetate	Ave	2.130	1.719		1.61	2.00	-19.3	30.0
Chloroform	Ave	3.427	3.591		2.10	2.00	4.8	30.0
Tetrahydrofuran	Ave	1.026	0.7756		1.51	2.00	-24.4	30.0
1,1,1-Trichloroethane	Ave	3.888	4.026		2.07	2.00	3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5275		2.15	2.00	7.6	30.0
1-Butanol	Ave	0.0746	0.0572		1.53	2.00	-23.4	30.0
Cyclohexane	Ave	0.1509	0.1677		2.22	2.00	11.1	30.0
Benzene	Ave	0.8050	0.8269		2.05	2.00	2.7	30.0
Carbon tetrachloride	Ave	0.7733	0.9701		2.51	2.00	25.4	30.0
2,3-Dimethylpentane	Ave	0.1874	0.2015		2.15	2.00	7.5	50.0
Thiophene	Ave	0.5002	0.5192		2.08	2.00	3.8	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.223		1.97	2.00	-1.6	30.0
Heptane	Ave	0.3047	0.3304		2.17	2.00	8.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2535		1.96	2.00	-2.0	30.0
Trichloroethene	Ave	0.3975	0.4221		2.12	2.00	6.2	30.0
Dibromomethane	Ave	0.3799	0.4118		2.17	2.00	8.4	30.0
Bromodichloromethane	Ave	0.7571	0.8261		2.18	2.00	9.1	30.0
1,4-Dioxane	Ave	0.1068	0.0988		1.85	2.00	-7.5	30.0
Methyl methacrylate	Ave	0.3033	0.2707		1.79	2.00	-10.7	30.0
Methylcyclohexane	Ave	0.5694	0.6052		2.13	2.00	6.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4205		1.77	2.00	-11.3	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4789		2.10	2.00	4.9	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5255		1.95	2.00	-2.7	30.0
Toluene	Ave	1.072	1.027		1.92	2.00	-4.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3066		1.94	2.00	-2.8	30.0
2-Methylthiophene	Ave	0.9307	0.9054		1.95	2.00	-2.7	50.0
3-Methylthiophene	Ave	0.9375	0.9028		1.93	2.00	-3.7	50.0
2-Hexanone	Ave	0.2529	0.2172		1.72	2.00	-14.1	30.0
Octane	Ave	0.3821	0.3803		1.99	2.00	-0.5	30.0
Dibromochloromethane	Ave	0.7144	0.7016		1.96	2.00	-1.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5646		2.01	2.00	0.3	30.0
Tetrachloroethene	Ave	0.4564	0.4560		2.00	2.00	-0.0	30.0
Chlorobenzene	Ave	0.8545	0.8525		2.00	2.00	-0.2	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7287		1.78	2.00	-11.2	50.0
Ethylbenzene	Ave	1.374	1.376		2.00	2.00	0.1	30.0
2-Ethylthiophene	Ave	1.101	1.101		2.00	2.00	0.0	50.0
m-Xylene & p-Xylene	Ave	1.080	1.121		4.15	4.00	3.8	30.0
Nonane	Ave	0.5994	0.5423		1.81	2.00	-9.5	30.0
Bromoform	Ave	0.6422	0.5265		1.64	2.00	-18.0	30.0
Styrene	Ave	0.7475	0.7649		2.05	2.00	2.3	30.0
o-Xylene	Ave	1.168	1.173		2.01	2.00	0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.6832		1.99	2.00	-0.6	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2446		1.95	2.00	-2.3	30.0
Isopropylbenzene	Ave	1.542	1.526		1.98	2.00	-1.1	30.0
Propylbenzene	Ave	0.4031	0.3884		1.93	2.00	-3.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1037-1

SDG No.:

Lab Sample ID: CCVIS 140-951/2 Calibration Date: 03/13/2014 11:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3775		1.96	2.00	-1.8	30.0
4-Ethyltoluene	Ave	1.477	1.486		2.01	2.00	0.6	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6563		1.96	2.00	-2.0	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5597		2.03	2.00	1.3	30.0
Decane	Ave	0.6339	0.6478		2.04	2.00	2.2	30.0
tert-Butylbenzene	Ave	1.348	1.339		1.99	2.00	-0.7	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.269		2.07	2.00	3.4	30.0
sec-Butylbenzene	Ave	1.656	1.692		2.04	2.00	2.2	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8236		2.06	2.00	3.2	30.0
Benzyl chloride	Ave	1.010	1.042		2.06	2.00	3.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.7977		2.03	2.00	1.6	30.0
4-Isopropyltoluene	Ave	1.399	1.478		2.11	2.00	5.6	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.059		2.03	2.00	1.6	50.0
Butylcyclohexane	Ave	0.9625	1.002		2.08	2.00	4.1	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7835		2.06	2.00	3.0	30.0
Indane	Ave	1.073	1.088		2.03	2.00	1.4	50.0
Indene	Ave	1.019	1.064		2.09	2.00	4.5	50.0
Butylbenzene	Ave	1.239	1.397		2.25	2.00	12.7	30.0
Undecane	Ave	0.5595	0.5627		2.01	2.00	0.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.358		2.26	2.00	13.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.390		2.34	2.00	16.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8772		2.26	2.00	12.8	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.081		2.18	2.00	8.8	50.0
Dodecane	Ave	0.4200	0.4751		2.26	2.00	13.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.4757		1.87	2.00	-6.3	30.0
Naphthalene	Ave	0.8890	0.8960		2.02	2.00	0.8	30.0
Benzo(b)thiophene	Ave	0.6431	0.6062		1.89	2.00	-5.7	50.0
Hexachlorobutadiene	Ave	0.6633	0.6533		1.97	2.00	-1.5	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.3792		2.00	2.00	0.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0392		11.7	12.5	-6.7	50.0
1-Methylnaphthalene	Ave	0.0366	0.0331		11.3	12.5	-9.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9213		4.21	4.00	5.2	30.0

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1041-1	PCV-IA1-B1	Air	03/11/14 16:20	03/12/14 09:59
140-1041-2	PCV-IA2-B1	Air	03/11/14 16:17	03/12/14 09:59
140-1041-3	PCV-IA1-B2	Air	03/11/14 16:40	03/12/14 09:59
140-1041-4	PCV-IA2-B2	Air	03/11/14 16:36	03/12/14 09:59
140-1041-5	PCV-IA1-B13	Air	03/11/14 15:06	03/12/14 09:59
140-1041-6	PCV-IA2-B13	Air	03/11/14 16:10	03/12/14 09:59
140-1041-7	PCV-IA3-B13	Air	03/11/14 16:14	03/12/14 09:59
140-1041-8	PCV-AMB-3	Air	03/11/14 16:18	03/12/14 09:59
140-1041-9	PCV-IA1-B14	Air	03/11/14 16:35	03/12/14 09:59
140-1041-10	PCV-IA1FD-B14	Air	03/11/14 16:35	03/12/14 09:59
140-1041-11	PCV-IA2-B14	Air	03/11/14 16:42	03/12/14 09:59
140-1041-12	PCV-IA1-B4	Air	03/11/14 15:26	03/12/14 09:59
140-1041-13	PCV-IA1-B3	Air	03/11/14 15:50	03/12/14 09:59
140-1041-14	PCV-IA2-B3	Air	03/11/14 16:04	03/12/14 09:59
140-1041-15	PCV-IA3-B3	Air	03/11/14 16:21	03/12/14 09:59
140-1041-17	PCV-AMB4	Air	03/11/14 16:39	03/12/14 09:59

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Kristen Barbour	1 of 3 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8410			
Project Name: Peter Cooper Village IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Can Ed MSP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B1	3/11/14	850	1620	-30	-7	10869	10389	X							X				78°F
PCV-IA2-B1	3/11/14	842	1617	-30	-6	10862	09601	X							X				79°F
PCV-IA1-B2	3/11/14	910	1640	-28	-5	09704	10090	X							X				68°F
PCV-IA2-B2	3/11/14	930	1636	-30	-7	10058	10527	X							X				73°F

Sampled by : K. Barbour

Temperature (Fahrenheit)	Interior	Ambient
Start		44°F
Stop		

Sampled by : K. Barbour

Pressure (inches of Hg)	Interior	Ambient
Start		29.26
Stop		

4 Boxes UPS 1Z08395E0160641272
1Z08395E0160058091, 1Z08395E0158585105
1Z08395E0160855489 Next Day Air
19 CANS, 19 FLOWS, 13 CANDY CANES

4 Boxes RA 3/12/14 NO CUSTODY SEALS
RECEIVED @ Ambient Temp
RAf. 3/12/14

Special Instructions/QC Requirements & Comments:
Temperatures @ each location listed in other column

Canisters Shipped by:	Date/Time: 3/11/14 1945	Canisters Received by:	Rita Hancock 3/12/14 09:59
Samples Relinquished by:	Date/Time: 3/11/14 17:05	Received by:	
Relinquished by:	Date/Time:	Received by:	

140-1041 Chain of Custody

03/25/2014

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Jennifer Pfeiffer	**Samples Collected By:** Sara Meissner	COC No: 2 of 3 COCs
Company Name: AECOM	Phone: 516-581-7318		
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		For Lab Use Only:
City/State/Zip: New York, NY 10004	Site Contact: Jessica Ehlen		Walk-in Client:
Phone: 212-377-8400	TA Contact: Jamie McKinney		Lab Sampling:
FAX: 212-377-8410	**Anaylsis Turnaround Time**		Job / SDG No.:
Project Name: Peter Cooper Village 1A	Standard (Specific): X		(See below for Add'l Items)
Site/Location: Peter Cooper Village, NYC	Rush (Specify):		
PO#			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med-Std-Low+SIM) TCL+CS List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B13	3/11/14	0855	1506	-30	-3	K487	10578	X								X	X					67°F
PCV-1A2-B13	3/11/14	0900	1610	-29	-4	K213	10332	X								X	X					67°F
PCV-1A3-B13	3/11/14	0905	1614	-30	-5	K388	09675	X								X	X					67°F
PCV-AMB-3	3/11/14	0909	1618	-30	-5	K473	10330	X								X		X				62°F
PCV-1A1-B14	3/11/14	0920	1635	-28	-7	K494	09820	X								X	X					67°F
PCV-1A1FD-B14	3/11/14	0920	1635	-30	-5	K345	10716	X								X	X					67°F
PCV-1A2-B14	3/11/14	0925	1642	-30	-6	K315	10542	X								X	X					67°F

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Temperature (Fahrenheit)

	Interior	Ambient
Start	67°	44°
Stop	67°	62°

	Barometric Pressure
Start	29.62
Stop	29.62

Special Instructions/QC Requirements & Comments:
*Note: FC# K487 = 10698, FC# K213 = 10653, FC# K388 = 10293, FC# K473 = ~~09330~~ 10054, FC# K494 = 10057, FC# K345 = 10082, FC# K315 = 09559

Samples Shipped by:	**Date / Time:** 3/11/14 / 1945	**Samples Received by:** Rita Hancock	3/12/14 09:59
Samples Relinquished by:	**Date / Time:** 3/11/14 1705	**Received by:**	
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No:
Company Name: AECOM	Phone: 212-377-8706		5 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		
City/State/Zip: New York, NY 10004			For Lab Use Only:
Phone: 212-377-8400	Site Contact: Jessica Ehren		Walk-in Client:
FAX: 212-377-8410	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village, IA	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: PeterCooper Village, NYC	Standard (Specific): X		(See below for Add'l Items)
PO#	Rush (Specify):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1946 / 3688	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type (composite)	Indoor Air	Ambient Air (outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B4	3/11/14	9:41	15:26	-30	-5	09909	10331	X								X	X					Temp - 69°F
PCV-1A1-B3		9:42	15:50	-29	-5	10661	10212	X								X	X					Temp - 73°F
PCV-1A2-B3		8:38	16:04	-29	-5	10141	10411	X								X	X					Temp: 72°F
PCV-1A3-B3		8:47	16:21	-30	-5	10594	10247	X								X	X					Temp 72°F
PCV-1A2-B4		9:40	16:45	-30	-8	10621	10709	X								X	X					Temp: 70°F
PCV-AMB4		9:35	16:39	-30	-6	10631	10967	X								X		X				Temp: 58°F

	Temperature (Fahrenheit)			
J. Christoffel	Start	~~Interior~~ X	Ambient 44°F	
	Stop	X	62°F	
	Temperature (Fahrenheit)		Barometric	
J. Christoffel	Start	Interior X	Ambient 29.62	in Hg
	Stop	X	29.60	in Hg

Special Instructions/QC Requirements & Comments:
PCV-1A2-B4 - Hard time getting regulator off. When regulator came off it made hissing sound. Please hold sample ~~until~~

Samples Shipped by:	Date / Time: 3/11/14/1945	Samples Received by: Rob Hancock	3/12/14 09:59
Samples Relinquished by: J. Christoffel	Date / Time: 3-11-14	Received by:	
Relinquished by:	Date / Time:	Received by:	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DLW	3/13/2014	11:12	140-1041-a-1	X		-5.4	
DLW	3/13/2014	11:12	140-1041-a-2	X		-7.6	
DLW	3/13/2014	11:13	140-1041-a-3	X		-6.0	
DLW	3/13/2014	11:13	140-1041-a-4	X		-7.3	
DLW	3/13/2014	11:14	140-1041-a-5	X		-3.5	
DLW	3/13/2014	11:31	140-1041-a-6	X		-6.4	
DLW	3/13/2014	11:32	140-1041-a-7	X		-5.0	
DLW	3/13/2014	11:32	140-1041-a-8	X		-6.4	
DLW	3/13/2014	11:32	140-1041-a-9	X		-7.1	
DLW	3/13/2014	11:33	140-1041-a-10	X		-4.7	
DLW	3/13/2014	11:39	140-1041-a-11	X		-5.5	
DLW	3/13/2014	11:40	140-1041-a-12	X		-4.8	
DLW	3/13/2014	11:41	140-1041-a-13	X		-5.9	
DLW	3/13/2014	11:41	140-1041-a-14	X		-4.8	
DLW	3/13/2014	11:41	140-1041-a-15	X		-4.9	
DLW	3/13/2014	11:42	140-1041-a-17	X		-6.4	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1041-1

Login Number: 1041
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Job Narrative
140-1041-1

Comments
No additional comments.

Receipt
The samples were received on 3/12/2014 9:59 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

One or more containers for the following sample was received with the valve removed: PCV-IA2-B4 (140-1041-16). The sample could not be analyzed and was canceled.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 958 exhibited % difference of > 30% for the following analyte(s) trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the prppene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification # 890 and 986 for tetrachloroethene are shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1

SDG No.:

Client Sample ID: 10332 PCV-1A2-B13 #6 Lab Sample ID: 140-890-11

Matrix: Air Lab File ID: 140-890-a-11.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10

Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.065		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-986-1

SDG No.:

Client Sample ID: 10247 PCV-1A3-B3 #15 Lab Sample ID: 140-986-16

Matrix: Air Lab File ID: 140-986-a-16.D

Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:00

Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 08:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.061		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1041-1

Air - GC/MS VOA

Analysis Batch: 958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1041-1	PCV-IA1-B1	Total/NA	Air	TO-15	
140-1041-2	PCV-IA2-B1	Total/NA	Air	TO-15	
140-1041-3	PCV-IA1-B2	Total/NA	Air	TO-15	
140-1041-4	PCV-IA2-B2	Total/NA	Air	TO-15	
140-1041-5	PCV-IA1-B13	Total/NA	Air	TO-15	
140-1041-6	PCV-IA2-B13	Total/NA	Air	TO-15	
140-1041-6 - DL	PCV-IA2-B13	Total/NA	Air	TO-15	
140-1041-7	PCV-IA3-B13	Total/NA	Air	TO-15	
140-1041-8	PCV-AMB-3	Total/NA	Air	TO-15	
140-1041-9	PCV-IA1-B14	Total/NA	Air	TO-15	
140-1041-10	PCV-IA1FD-B14	Total/NA	Air	TO-15	
140-1041-11	PCV-IA2-B14	Total/NA	Air	TO-15	
140-1041-12	PCV-IA1-B4	Total/NA	Air	TO-15	
140-1041-13	PCV-IA1-B3	Total/NA	Air	TO-15	
140-1041-14	PCV-IA2-B3	Total/NA	Air	TO-15	
140-1041-15	PCV-IA3-B3	Total/NA	Air	TO-15	
140-1041-17	PCV-AMB4	Total/NA	Air	TO-15	
LCS 140-958/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-958/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1041-7 - DL	PCV-IA3-B13	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6952		2.48	2.00	23.9	30.0
Propene	Ave	1.006	0.9498		1.89	2.00	-5.6	30.0
Dichlorodifluoromethane	Ave	4.425	5.507		2.49	2.00	24.5	30.0
Chloromethane	Ave	0.3532	0.3951		2.24	2.00	11.9	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.103		2.33	2.00	16.3	30.0
Acetaldehyde	Ave	0.3349	0.3900		11.6	10.0	16.4	50.0
Vinyl chloride	Ave	1.364	1.686		2.47	2.00	23.6	30.0
1,3-Butadiene	Ave	0.9428	1.069		2.27	2.00	13.3	30.0
Butane	Ave	1.913	2.142		2.24	2.00	12.0	30.0
Bromomethane	Ave	1.473	1.863		2.53	2.00	26.5	30.0
Chloroethane	Ave	0.6922	0.8573		2.48	2.00	23.9	30.0
Ethanol	Ave	0.4001	0.4122		10.3	10.0	3.0	50.0
Vinyl bromide	Ave	1.331	1.743		2.62	2.00	30.9*	30.0
2-Methylbutane	Ave	1.401	1.589		2.27	2.00	13.4	30.0
Trichlorofluoromethane	Ave	4.438	5.867		2.64	2.00	32.2*	30.0
Acrolein	Ave	0.4230	0.5026		2.38	2.00	18.8	30.0
Acetonitrile	Ave	0.3806	0.4680		2.46	2.00	23.0	30.0
Acetone	Ave	0.6059	0.5810		1.92	2.00	-4.1	30.0
Pentane	Ave	0.2626	0.3401		2.59	2.00	29.5	30.0
Isopropyl alcohol	Ave	1.560	1.534		1.97	2.00	-1.7	30.0
Ethyl ether	Ave	1.018	1.145		2.25	2.00	12.4	30.0
1,1-Dichloroethene	Ave	1.190	1.224		2.06	2.00	2.9	30.0
tert-Butyl alcohol	Ave	2.208	1.753		1.59	2.00	-20.6	30.0
Acrylonitrile	Ave	0.7008	0.7150		2.04	2.00	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.072		2.24	2.00	11.8	30.0
Methylene Chloride	Ave	1.143	1.223		2.14	2.00	7.0	30.0
3-Chloropropene	Ave	1.349	1.358		2.01	2.00	0.7	30.0
Carbon disulfide	Ave	4.140	4.466		2.16	2.00	7.9	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.453		1.99	2.00	-0.3	30.0
2-Methylpentane	Ave	2.634	2.384		1.81	2.00	-9.5	50.0
Methyl tert-butyl ether	Ave	3.630	3.977		2.19	2.00	9.6	30.0
1,1-Dichloroethane	Ave	2.467	2.495		2.02	2.00	1.1	30.0
Vinyl acetate	Ave	2.433	2.377		1.95	2.00	-2.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5157		1.58	2.00	-21.2	30.0
Hexane	Ave	1.064	0.9911		1.86	2.00	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.296		1.90	2.00	-4.8	30.0
Ethyl acetate	Ave	2.130	1.902		1.79	2.00	-10.7	30.0
Chloroform	Ave	3.427	3.813		2.23	2.00	11.3	30.0
Tetrahydrofuran	Ave	1.026	0.8528		1.66	2.00	-16.9	30.0
1,1,1-Trichloroethane	Ave	3.888	4.364		2.25	2.00	12.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5564		2.27	2.00	13.5	30.0
1-Butanol	Ave	0.0746	0.0449		1.20	2.00	-39.9*	30.0
Cyclohexane	Ave	0.1509	0.1454		1.93	2.00	-3.7	30.0
Benzene	Ave	0.8050	0.8242		2.05	2.00	2.4	30.0
Carbon tetrachloride	Ave	0.7733	0.9483		2.45	2.00	22.6	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1809		1.93	2.00	-3.5	50.0
Thiophene	Ave	0.5002	0.4972		1.99	2.00	-0.6	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.113		1.79	2.00	-10.4	30.0
Heptane	Ave	0.3047	0.2923		1.92	2.00	-4.1	30.0
1,2-Dichloropropane	Ave	0.2586	0.2530		1.96	2.00	-2.2	30.0
Trichloroethene	Ave	0.3975	0.3758		1.89	2.00	-5.5	30.0
Dibromomethane	Ave	0.3799	0.4041		2.13	2.00	6.4	30.0
Bromodichloromethane	Ave	0.7571	0.8558		2.26	2.00	13.0	30.0
1,4-Dioxane	Ave	0.1068	0.0839		1.57	2.00	-21.5	30.0
Methyl methacrylate	Ave	0.3033	0.2803		1.85	2.00	-7.6	30.0
Methylcyclohexane	Ave	0.5694	0.5341		1.88	2.00	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3618		1.53	2.00	-23.7	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4943		2.17	2.00	8.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5386		1.99	2.00	-0.3	30.0
Toluene	Ave	1.072	1.039		1.94	2.00	-3.0	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3084		1.96	2.00	-2.2	30.0
2-Methylthiophene	Ave	0.9307	0.8963		1.93	2.00	-3.7	50.0
3-Methylthiophene	Ave	0.9375	0.8993		1.92	2.00	-4.1	50.0
2-Hexanone	Ave	0.2529	0.1933		1.53	2.00	-23.6	30.0
Octane	Ave	0.3821	0.3619		1.89	2.00	-5.3	30.0
Dibromochloromethane	Ave	0.7144	0.7225		2.02	2.00	1.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5645		2.00	2.00	0.2	30.0
Tetrachloroethene	Ave	0.4564	0.4272		1.87	2.00	-6.4	30.0
Chlorobenzene	Ave	0.8545	0.8469		1.98	2.00	-0.9	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7192		1.75	2.00	-12.4	50.0
Ethylbenzene	Ave	1.374	1.406		2.05	2.00	2.3	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.8	50.0
m-Xylene & p-Xylene	Ave	1.080	1.192		4.41	4.00	10.3	30.0
Nonane	Ave	0.5994	0.5418		1.81	2.00	-9.6	30.0
Bromoform	Ave	0.6422	0.5491		1.71	2.00	-14.5	30.0
Styrene	Ave	0.7475	0.7937		2.12	2.00	6.2	30.0
o-Xylene	Ave	1.168	1.227		2.10	2.00	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7137		2.08	2.00	3.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2626		2.10	2.00	4.9	30.0
Isopropylbenzene	Ave	1.542	1.598		2.07	2.00	3.6	30.0
Propylbenzene	Ave	0.4031	0.4020		1.99	2.00	-0.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3764		1.96	2.00	-2.0	30.0
4-Ethyltoluene	Ave	1.477	1.511		2.05	2.00	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6804		2.03	2.00	1.6	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5826		2.11	2.00	5.4	30.0
Decane	Ave	0.6339	0.6650		2.10	2.00	4.9	30.0
tert-Butylbenzene	Ave	1.348	1.404		2.08	2.00	4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.341		2.18	2.00	9.2	30.0
sec-Butylbenzene	Ave	1.656	1.766		2.13	2.00	6.6	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8224		2.06	2.00	3.0	30.0
Benzyl chloride	Ave	1.010	1.068		2.12	2.00	5.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.8004		2.04	2.00	1.9	30.0
4-Isopropyltoluene	Ave	1.399	1.514		2.16	2.00	8.2	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.098		2.11	2.00	5.4	50.0
Butylcyclohexane	Ave	0.9625	1.010		2.10	2.00	5.0	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7904		2.08	2.00	3.9	30.0
Indane	Ave	1.073	1.121		2.09	2.00	4.5	50.0
Indene	Ave	1.019	1.098		2.16	2.00	7.8	50.0
Butylbenzene	Ave	1.239	1.429		2.31	2.00	15.3	30.0
Undecane	Ave	0.5595	0.6079		2.17	2.00	8.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.304		2.17	2.00	8.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.316		2.21	2.00	10.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8243		2.12	2.00	6.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	0.9877		1.99	2.00	-0.5	50.0
Dodecane	Ave	0.4200	0.2761		1.31	2.00	-34.3*	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.3831		1.51	2.00	-24.5	30.0
Naphthalene	Ave	0.8890	0.6638		1.49	2.00	-25.3	30.0
Benzo(b)thiophene	Ave	0.6431	0.4027		1.25	2.00	-37.4	50.0
Hexachlorobutadiene	Ave	0.6633	0.6727		2.03	2.00	1.4	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.2398		1.27	2.00	-36.7*	30.0
2-Methylnaphthalene	Ave	0.0420	0.0193		5.75	12.5	-54.0*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0165		5.65	12.5	-54.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9602		4.38	4.00	9.6	30.0

Used for acetone and toluene only.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1041-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.25		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,1-Dichloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.51		ppb v/v		75	60 - 140
1,2,4-Trimethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.00		ppb v/v		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33		ppb v/v		116	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.27		ppb v/v		113	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,3,5-Trimethylbenzene	2.00	2.03		ppb v/v		102	70 - 130
1,3-Butadiene	2.00	2.27		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	2.00	2.04		ppb v/v		102	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.79		ppb v/v		90	70 - 130
2,3-Dimethylpentane	2.00	1.93		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.58		ppb v/v		79	60 - 140
2-Hexanone	2.00	1.53		ppb v/v		76	60 - 140
2-Methylbutane	2.00	2.27		ppb v/v		113	70 - 130
2-Methylpentane	2.00	1.81		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.05		ppb v/v		102	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.53		ppb v/v		76	60 - 140
Acetone	2.00	1.92	J	ppb v/v		96	60 - 140
Benzene	2.00	2.05		ppb v/v		102	70 - 130
Benzyl chloride	2.00	2.12		ppb v/v		106	70 - 130
Bromodichloromethane	2.00	2.26		ppb v/v		113	70 - 130
Bromoform	2.00	1.71		ppb v/v		86	60 - 140
Bromomethane	2.00	2.53		ppb v/v		126	70 - 130
Carbon disulfide	2.00	2.16		ppb v/v		108	70 - 130
Carbon tetrachloride	2.00	2.45		ppb v/v		123	70 - 130
Chlorobenzene	2.00	1.98		ppb v/v		99	70 - 130
Chloroethane	2.00	2.48		ppb v/v		124	70 - 130
Chloroform	2.00	2.23		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
cis-1,3-Dichloropropene	2.00	2.17		ppb v/v		108	70 - 130
Cyclohexane	2.00	1.93		ppb v/v		96	70 - 130
Dibromochloromethane	2.00	2.02		ppb v/v		101	70 - 130
Dichlorodifluoromethane	2.00	2.49		ppb v/v		124	60 - 140
Ethanol	10.0	10.3		ppb v/v		103	20 - 180
Ethylbenzene	2.00	2.05		ppb v/v		102	70 - 130
Heptane	2.00	1.92		ppb v/v		96	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.03		ppb v/v		101	60 - 140
Hexane	2.00	1.86		ppb v/v		93	70 - 130
Indane	2.00	2.09		ppb v/v		105	20 - 180
Indene	2.00	2.16		ppb v/v		108	20 - 180
Isopropyl alcohol	2.00	1.97		ppb v/v		98	60 - 140
Methyl tert-butyl ether	2.00	2.19		ppb v/v		110	60 - 140
Methylene Chloride	2.00	2.14		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	4.41		ppb v/v		110	70 - 130
Naphthalene	2.00	1.49		ppb v/v		75	40 - 140
o-Xylene	2.00	2.10		ppb v/v		105	70 - 130
Propene	2.00	1.89		ppb v/v		94	60 - 140
Styrene	2.00	2.12		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	1.87		ppb v/v		94	70 - 130
Tetrahydrofuran	2.00	1.66		ppb v/v		83	60 - 140
Thiophene	2.00	1.99		ppb v/v		99	20 - 180
Toluene	2.00	1.94		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	1.99		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	2.00	1.99		ppb v/v		100	70 - 130
Trichloroethene	2.00	1.89		ppb v/v		95	70 - 130
Trichlorofluoromethane	2.00	2.64		ppb v/v		132	60 - 140
Vinyl chloride	2.00	2.47		ppb v/v		124	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.3		ug/m3		112	70 - 130
1,1,2,2-Tetrachloroethane	14	14.3		ug/m3		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.1		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	10.7		ug/m3		98	70 - 130
1,1-Dichloroethane	8.1	8.19		ug/m3		101	70 - 130
1,1-Dichloroethene	7.9	8.16		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	11.2		ug/m3		75	60 - 140
1,2,4-Trimethylbenzene	9.8	10.7		ug/m3		109	70 - 130
1,2-Dibromoethane (EDB)	15	15.4		ug/m3		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	16.3		ug/m3		116	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	9.19		ug/m3		113	70 - 130
1,2-Dichloropropane	9.2	9.04		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	9.8	9.99		ug/m3		102	70 - 130
1,3-Butadiene	4.4	5.01		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,4-Dichlorobenzene	12	12.3		ug/m3		102	70 - 130
1,4-Dioxane	7.2	5.66		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	8.37		ug/m3		90	70 - 130
2,3-Dimethylpentane	8.2	7.91		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.65		ug/m3		79	60 - 140
2-Hexanone	8.2	6.26		ug/m3		76	60 - 140
2-Methylbutane	5.9	6.70		ug/m3		113	70 - 130
2-Methylpentane	7.0	6.38		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.1		ug/m3		102	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	6.25		ug/m3		76	60 - 140
Acetone	4.8	4.56	J	ug/m3		96	60 - 140
Benzene	6.4	6.54		ug/m3		102	70 - 130
Benzyl chloride	10	11.0		ug/m3		106	70 - 130
Bromodichloromethane	13	15.1		ug/m3		113	70 - 130
Bromoform	21	17.7		ug/m3		86	60 - 140
Bromomethane	7.8	9.82		ug/m3		126	70 - 130
Carbon disulfide	6.2	6.72		ug/m3		108	70 - 130
Carbon tetrachloride	13	15.4		ug/m3		123	70 - 130
Chlorobenzene	9.2	9.12		ug/m3		99	70 - 130
Chloroethane	5.3	6.54		ug/m3		124	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	7.55		ug/m3		95	70 - 130
cis-1,3-Dichloropropene	9.1	9.83		ug/m3		108	70 - 130
Cyclohexane	6.9	6.63		ug/m3		96	70 - 130
Dibromochloromethane	17	17.2		ug/m3		101	70 - 130
Dichlorodifluoromethane	9.9	12.3		ug/m3		124	60 - 140
Ethanol	19	19.4		ug/m3		103	20 - 180
Ethylbenzene	8.7	8.89		ug/m3		102	70 - 130
Heptane	8.2	7.86		ug/m3		96	70 - 130
Hexachlorobutadiene	21	21.6		ug/m3		101	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	10.1		ug/m3		105	20 - 180
Indene	9.5	10.2		ug/m3		108	20 - 180
Isopropyl alcohol	4.9	4.83		ug/m3		98	60 - 140
Methyl tert-butyl ether	7.2	7.90		ug/m3		110	60 - 140
Methylene Chloride	6.9	7.44		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	19.2		ug/m3		110	70 - 130
Naphthalene	10	7.83		ug/m3		75	40 - 140
o-Xylene	8.7	9.13		ug/m3		105	70 - 130
Propene	3.4	3.25		ug/m3		94	60 - 140
Styrene	8.5	9.05		ug/m3		106	70 - 130
Tetrachloroethene	14	12.7		ug/m3		94	70 - 130
Tetrahydrofuran	5.9	4.90		ug/m3		83	60 - 140
Thiophene	6.9	6.84		ug/m3		99	20 - 180
Toluene	7.5	7.31		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	7.91		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	9.1	9.05		ug/m3		100	70 - 130
Trichloroethene	11	10.2		ug/m3		95	70 - 130
Trichlorofluoromethane	11	14.9		ug/m3		132	60 - 140
Vinyl chloride	5.1	6.32		ug/m3		124	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*60 - 140*

Acetone and toluene only.

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1051-1	PCV-IA1-B12	Air	03/12/14 14:24	03/13/14 10:25
140-1051-2	PCV-IA2-B12	Air	03/12/14 13:50	03/13/14 10:25
140-1051-3	PCV-IA3-B12	Air	03/12/14 15:19	03/13/14 10:25
140-1051-4	PCV-AMB-5	Air	03/12/14 14:55	03/13/14 10:25
140-1051-5	PCV-AMB-6	Air	03/12/14 15:02	03/13/14 10:25

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Jennifer Pfeiffer	**Samples Collected By:** Sara Meissner	COC No: 1 of 1 COCs
Company Name: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		For Lab Use Only:
City/State/Zip: New York NY 10004	Site Contact: Jessica Ehlen		Walk-in Client:
Phone: 212-377-8400	TA Contact: Jamie McKinney		Lab Sampling:
FAX: 212-377-8410	**Anaylsis Turnaround Time**		Job / SDG No.:
Project Name: Peter Cooper Village/ST	Standard (Specific): X		(See below for Add'l Items)
Site/Location: Peter Cooper Village, NYC	Rush (Specify):		
PO#			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med-Ext+Low+SIM) + Cond, Ket, Napl, 1,4	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type: Composite	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA1-B12	3/12/14	0816	1424	-30	-4	10879	10001	X								X	X					Temp: 67°F
PCV-IA2-B12	3/12/14	0800	1350	-30	-4	10619	10729	X								X	X					Temp: 67°F
PCV-IA3-B12	3/12/14	0810	1519	-30	-5	09713	34000495	X								X	X					Temp: 69°F
PCV-AMB-5	3/12/14	0825	1455	-30	-5	10588	10043	X								X		X				Temp: 52°F
PCV-AMB-6	3/12/14	0750	1502	-30	-5	10593	10711	X								X		X				Temp: 50°F

140-1051 Chain of Custody

Received @ ambient
No Custody seal
1 box
KW 3/13/14

Temperature (Fahrenheit)				Barometric Pressure
Start	Interior 67°	Ambient 47°		29.57"
Stop	67°	50°		29.21

UPS Next Day Air
tr#1Z 083 95E 01 5836 6191

5 cans
5 flows

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 3/12/14/1800	Samples Received by:	
Samples Relinquished by:	Date / Time: 3/12/14 1530	Received by:	
Relinquished by:	Date / Time:	Received by: J/13/14	KW 3/13/14 0945 1025
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DDF	3/13/2013	1240	140-1051-a-1	X		-5.3	
DDF	3/13/2013	1241	140-1051-a-2	X		-3.0	
DDF	3/13/2013	1242	140-1051-a-3	X		-5.2	
DDF	3/13/2013	1243	140-1051-a-4	X		-5.9	
DDF	3/13/2013	1244	140-1051-a-5	X		-4.3	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1051-1

Login Number: 1051
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Job Narrative
140-1051-1

Comments
No additional comments.

Receipt
The samples were received on 3/13/2014 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification #949 for 1,4-dioxane is shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0	
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0	
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0	
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0	#1
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0	
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0	
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0	
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0	
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0	
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0	
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0	
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0	
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0	
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0	
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0	
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0	
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0	
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0	
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0	
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0	
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0	
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0	
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0	#3
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0	
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0	
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0	
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0	
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0	
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0	
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0	
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0	
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0	
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0	
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0	
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0	
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0	
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0	
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0	

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1051-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

From #3 114

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1054-1	PCV-IA3-B21	Air	03/10/14 16:15	03/13/14 10:25
140-1054-2	PCV-IA2-B19	Air	03/10/14 16:28	03/13/14 10:25
140-1054-3	PCV-IA1-B21	Air	03/10/14 17:15	03/13/14 10:25
140-1054-4	PCV-IA1-B19	Air	03/10/14 16:42	03/13/14 10:25
140-1054-5	PCV-IA3-B19	Air	03/10/14 16:48	03/13/14 10:25
140-1054-6	PCV-IA2-B21	Air	03/10/14 17:10	03/13/14 10:25

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: J. Christoffel	COC No: 3 of 3 COCs
Company Name: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com		For Lab Use Only:
City/State/Zip: New York, NY 10004			Walk-in Client:
Phone: 212-377-8706	Site Contact: Jessica Ehlen		Lab Sampling:
FAX: 212-377-8401	TA Contact: Jamie McKinney		Job / SDG No.:
Project Name: Peter Cooper Village 1A	Analysis Turnaround Time		(See below for Add'l Items)
Site/Location: Peter Cooper Village, NY	Standard (Specific): X		
P O #	Rush (Specify):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) Compound List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3688	EPA 18/18	TO-3	Other (Please specify in notes section)	Sample Type: Comp 24 hr	Indoor Air	Ambient Air (outside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A3-B21	3-10-14	9:10	16:15	-30	-5	10063	10857	X								X	X					Temp = 75°F
PCV-1A2-B19	3-10-14	8:54	16:18	-30	-5	10623	10422	X								X	X					Temp = 68°F
PCV-1A1-B21	3-10-14	9:13	17:15	-30	-5	09862	10515	X								X	X					Temp = 68°F 75°F
PCV-1A1-B19	3-10-14	8:43	16:42	-29	-5.5	10505	11039	X								X	X					Temp = 68°F
PCV-1A3-B19	3-10-14	8:48	16:48	-30	-8	10592	09822	X	09872							X	X					Temp = 68°F
PCV-AMB1	3-10-14	10:09	16:59	-29	-7	10241	10812	X								X		X				Temp = 42°F
PCV-1A2-B21	3-10-14	9:22	17:10	-30	-6	10599	10092	X								X	X					Temp = 73°F

cam 04/08/14

140-1054 Chain of Custody

Received @ ambient
No Custody Seal
1 box
KW 3/13/14
fedex SO
tr-k# 7981 7702 7991

	Temperature (Fahrenheit)		
	Interior	Ambient	
Start		40°F	
Stop	35	52°F	

J. Christoffel

J. Christoffel

	Temperature (Fahrenheit)		Barometric (in Hg)
	Interior	Ambient	
Start		29.86	
Stop		29.71	

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	6 cams 6 flows
Samples Relinquished by: A. Christoffel	Date / Time: 3-10-14 / 5:35 PM	Received by:	
Relinquished by:	Date / Time: 3/16/14 / 8:15	Received by: KW 3/13/14 1025	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

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>>> Select a Laboratory <<<

#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Jennifer Pfeiffer	**Samples Collected By:** Sara Meissner
Company Name: AECOM	Phone: 516-587-7313	COC No: 1 of 3 COCs
Address: 125 Broad Street	Email: Jennifer.Pfeiffer@aecom.com	
City/State/Zip: New York, NY 10004	Site Contact: Jessica Ehlen	For Lab Use Only:
Phone: 212-377-8480	TA Contact: Jamie McKinney	Walk-in Client:
FAX: 212-377-8410	Analysis Turnaround Time	Lab Sampling:
Project Name: Peter Cooper Village 1A	Standard (Specify): X	Job / SDG No.:
Site/Location: Peter Cooper Village, NYC	Rush (Specify):	(See below for Add'l Items)
PO #		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med+Std+Low+SIM) TCP/Lit MePlan	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type: Convex 1.8	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-1A1-B10	3/10/14	0827	1615	-28	-4	K503	09597	X								X	X					62°F
PCV-1A2-B10	3/10/14	0836	1400	-30	-5	K101	10178	X								X	X					62°F
PCV-1A3-B10	3/10/14	0840	1615	-30	-4	K354	11040	X								X	X					65°F
PCV-1A2C-B10	3/10/14	0846	1630	-30	-5	K455	09595	X								X	X					67°F
PCV-AMB-2	3/10/14	0852	1530	-30	-4	K441	09613	X								X		X				45°F

S. Meissner

Temperature (Fahrenheit)			
	Interior	Ambient	
Start		~~Start~~ 40°F	Ambient Start 52°F
Stop	—		Stop

S. Meissner

Temperature (Fahrenheit)			Pressure (Hg)
	Interior	Ambient	
Start			29.86
Stop	—		29.71

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by:	Date / Time: 3/10/14 1647	Received by:	
Relinquished by:	Date / Time: 3/10/14 1810	Received by:	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

03/26/2014

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Jennifer Pfeiffer	Samples Collected By: Kristen Barbour	COC No:
Company Name: AECOM	Phone: 516-581-7313		2 of 3 COCs
Address: 125 Broad St	Email:		
City/State/Zip: NY, NY 10004			For Lab Use Only:
Phone: 212 377 8666	Site Contact: Jessica Ehlen		Walk-in Client:
FAX: 212 377 8710	TA Contact: Jamie McKinney		Lab Sampling:
Project Name: Peter Cooper Village FA	Anaytsis Turnaround Time		
Site/Location: Peter Cooper Village NYC	Standard (Specific): Standard		Job / SDG No.:
PO#	Rush (Specify):		(See below for Add'l Items)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM) + Cond List	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3688	EPA 18/16	TO-3	Other (Please specify in notes section)	Sample Type (Check)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA2-B16	3/10/14	9:11	16:30	-30	-6	10853	10806	X								X	X					temp 71°F FC# 10853
PCV-IA1-B16	3/10/14	9:19	16:42	-30	-5.5	10630	10369	X								X	X					temp 72°F FC# (1063 0)not used
PCV-IA3-B16	3/10/14	9:16	16:35	-30	-6.5	10558	10536	X								X	X					temp 72°F
PCV-IA2-B18	3/10/14	9:37	17:08	-30	-6	10647	11044	X								X	X					temp 71°F
PCV-IA3-B18	3/10/14	9:41	17:12	-27	-4	10645	10721	X								X	X					temp 63°F
PCV-IA1-B18	3/10/14	9:42	17:18	-30	-5.5	09715	10129	X								X	X					temp 65°F
PCV-IA2-B18	3/10/14	9:42	17:15	-30	-5	10630	09523	X								X	X					flow control #10361 not used for sample temp 6

Note: FC #10845 not used on IA2-B16
FC #10630 not used on IA1-B16

	Temperature (Fahrenheit)			
Kristen Barbour	Start	Interior	Ambient 40°F	52°F
	Stop			

	Temperature (Fahrenheit)	Pressure (inches of Hg)		
Kristen Barbour	Start	Interior	Ambient	29.86
	Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by: Kristen Barbour	Date / Time: 3/10/14 17:36	Received by:	
Relinquished by:	Date / Time: 3/11/14 18:10	Received by:	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

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03/26/2014

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
AFB	3/13/2014	1745	140-1054-A-1	X		-4.7	
AFB	3/13/2014	1746	140-1054-A-2	X		-4.1	
AFB	3/13/2014	1747	140-1054-A-3	X		-3.0	
AFB	3/13/2014	1748	140-1054-A-4	X		-6.0	
AFB	3/13/2014	1749	140-1054-A-5	X		-6.9	
AFB	3/13/2014	1750	140-1054-A-6	X		-4.9	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1054-1

Login Number: 1054
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Job Narrative
140-1054-1

Comments
No additional comments.

Receipt
The samples were received on 3/13/2014 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

Sample PCV-AMB1 was listed on the chain of custody but wasn't receive. It was received with another shipment.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 958 exhibited % difference of > 30% for trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in some samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Malzone, Greg

From: McKinney, Jamie <Jamie.McKinney@testamericainc.com>
Sent: Tuesday, April 08, 2014 9:07 AM
To: Malzone, Greg
Cc: Ehlen, Jessica; Pfeiffer, Jennifer
Subject: RE: 140-1054-1 6-L Summa Canister ID Question

Hi Greg!
It was incorrect on the COC. The can used was 09872, Can 09822 is a 1L can that is out of commission until the valve is repaired. Please let me know if you have any other questions.
Jamie

JAMIE MCKINNEY
Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Knoxville, TN 37921
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www.testamericainc.com

From: Malzone, Greg [mailto:greg.malzone@aecom.com]
Sent: Tuesday, April 08, 2014 8:41 AM
To: McKinney, Jamie
Cc: Ehlen, Jessica; Pfeiffer, Jennifer
Subject: 140-1054-1 6-L Summa Canister ID Question

Hi Jamie:

In doing the data validation for the ConEd/21st Street air samples, I have a question regarding a canister ID. See attached information on project 140-1052-1.

The canister ID listed on the CoC for PCV-IA3-B19 is "09822." There is no clean canister certification record for "09872." The clean canister certification records do have an ID of "09872." Has there been a transcription of typographical error made?

Gregory A. Malzone
Project Chemist
Environment
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FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6952		2.48	2.00	23.9	30.0
Propene	Ave	1.006	0.9498		1.89	2.00	-5.6	30.0
Dichlorodifluoromethane	Ave	4.425	5.507		2.49	2.00	24.5	30.0
Chloromethane	Ave	0.3532	0.3951		2.24	2.00	11.9	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.103		2.33	2.00	16.3	30.0
Acetaldehyde	Ave	0.3349	0.3900		11.6	10.0	16.4	50.0
Vinyl chloride	Ave	1.364	1.686		2.47	2.00	23.6	30.0
1,3-Butadiene	Ave	0.9428	1.069		2.27	2.00	13.3	30.0
Butane	Ave	1.913	2.142		2.24	2.00	12.0	30.0
Bromomethane	Ave	1.473	1.863		2.53	2.00	26.5	30.0
Chloroethane	Ave	0.6922	0.8573		2.48	2.00	23.9	30.0
Ethanol	Ave	0.4001	0.4122		10.3	10.0	3.0	50.0
Vinyl bromide	Ave	1.331	1.743		2.62	2.00	30.9*	30.0
2-Methylbutane	Ave	1.401	1.589		2.27	2.00	13.4	30.0
Trichlorofluoromethane	Ave	4.438	5.867		2.64	2.00	32.2*	30.0
Acrolein	Ave	0.4230	0.5026		2.38	2.00	18.8	30.0
Acetonitrile	Ave	0.3806	0.4680		2.46	2.00	23.0	30.0
Acetone	Ave	0.6059	0.5810		1.92	2.00	-4.1	30.0
Pentane	Ave	0.2626	0.3401		2.59	2.00	29.5	30.0
Isopropyl alcohol	Ave	1.560	1.534		1.97	2.00	-1.7	30.0
Ethyl ether	Ave	1.018	1.145		2.25	2.00	12.4	30.0
1,1-Dichloroethene	Ave	1.190	1.224		2.06	2.00	2.9	30.0
tert-Butyl alcohol	Ave	2.208	1.753		1.59	2.00	-20.6	30.0
Acrylonitrile	Ave	0.7008	0.7150		2.04	2.00	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.072		2.24	2.00	11.8	30.0
Methylene Chloride	Ave	1.143	1.223		2.14	2.00	7.0	30.0
3-Chloropropene	Ave	1.349	1.358		2.01	2.00	0.7	30.0
Carbon disulfide	Ave	4.140	4.466		2.16	2.00	7.9	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.453		1.99	2.00	-0.3	30.0
2-Methylpentane	Ave	2.634	2.384		1.81	2.00	-9.5	50.0
Methyl tert-butyl ether	Ave	3.630	3.977		2.19	2.00	9.6	30.0
1,1-Dichloroethane	Ave	2.467	2.495		2.02	2.00	1.1	30.0
Vinyl acetate	Ave	2.433	2.377		1.95	2.00	-2.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5157		1.58	2.00	-21.2	30.0
Hexane	Ave	1.064	0.9911		1.86	2.00	-6.9	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.296		1.90	2.00	-4.8	30.0
Ethyl acetate	Ave	2.130	1.902		1.79	2.00	-10.7	30.0
Chloroform	Ave	3.427	3.813		2.23	2.00	11.3	30.0
Tetrahydrofuran	Ave	1.026	0.8528		1.66	2.00	-16.9	30.0
1,1,1-Trichloroethane	Ave	3.888	4.364		2.25	2.00	12.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5564		2.27	2.00	13.5	30.0
1-Butanol	Ave	0.0746	0.0449		1.20	2.00	-39.9*	30.0
Cyclohexane	Ave	0.1509	0.1454		1.93	2.00	-3.7	30.0
Benzene	Ave	0.8050	0.8242		2.05	2.00	2.4	30.0
Carbon tetrachloride	Ave	0.7733	0.9483		2.45	2.00	22.6	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1809		1.93	2.00	-3.5	50.0
Thiophene	Ave	0.5002	0.4972		1.99	2.00	-0.6	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.113		1.79	2.00	-10.4	30.0
Heptane	Ave	0.3047	0.2923		1.92	2.00	-4.1	30.0
1,2-Dichloropropane	Ave	0.2586	0.2530		1.96	2.00	-2.2	30.0
Trichloroethene	Ave	0.3975	0.3758		1.89	2.00	-5.5	30.0
Dibromomethane	Ave	0.3799	0.4041		2.13	2.00	6.4	30.0
Bromodichloromethane	Ave	0.7571	0.8558		2.26	2.00	13.0	30.0
1,4-Dioxane	Ave	0.1068	0.0839		1.57	2.00	-21.5	30.0
Methyl methacrylate	Ave	0.3033	0.2803		1.85	2.00	-7.6	30.0
Methylcyclohexane	Ave	0.5694	0.5341		1.88	2.00	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3618		1.53	2.00	-23.7	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4943		2.17	2.00	8.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5386		1.99	2.00	-0.3	30.0
Toluene	Ave	1.072	1.039		1.94	2.00	-3.0	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3084		1.96	2.00	-2.2	30.0
2-Methylthiophene	Ave	0.9307	0.8963		1.93	2.00	-3.7	50.0
3-Methylthiophene	Ave	0.9375	0.8993		1.92	2.00	-4.1	50.0
2-Hexanone	Ave	0.2529	0.1933		1.53	2.00	-23.6	30.0
Octane	Ave	0.3821	0.3619		1.89	2.00	-5.3	30.0
Dibromochloromethane	Ave	0.7144	0.7225		2.02	2.00	1.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5645		2.00	2.00	0.2	30.0
Tetrachloroethene	Ave	0.4564	0.4272		1.87	2.00	-6.4	30.0
Chlorobenzene	Ave	0.8545	0.8469		1.98	2.00	-0.9	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7192		1.75	2.00	-12.4	50.0
Ethylbenzene	Ave	1.374	1.406		2.05	2.00	2.3	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.8	50.0
m-Xylene & p-Xylene	Ave	1.080	1.192		4.41	4.00	10.3	30.0
Nonane	Ave	0.5994	0.5418		1.81	2.00	-9.6	30.0
Bromoform	Ave	0.6422	0.5491		1.71	2.00	-14.5	30.0
Styrene	Ave	0.7475	0.7937		2.12	2.00	6.2	30.0
o-Xylene	Ave	1.168	1.227		2.10	2.00	5.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7137		2.08	2.00	3.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2626		2.10	2.00	4.9	30.0
Isopropylbenzene	Ave	1.542	1.598		2.07	2.00	3.6	30.0
Propylbenzene	Ave	0.4031	0.4020		1.99	2.00	-0.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-958/2 Calibration Date: 03/14/2014 09:55

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC14.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3764		1.96	2.00	-2.0	30.0
4-Ethyltoluene	Ave	1.477	1.511		2.05	2.00	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.6804		2.03	2.00	1.6	30.0
Alpha Methyl Styrene	Ave	0.5526	0.5826		2.11	2.00	5.4	30.0
Decane	Ave	0.6339	0.6650		2.10	2.00	4.9	30.0
tert-Butylbenzene	Ave	1.348	1.404		2.08	2.00	4.1	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.341		2.18	2.00	9.2	30.0
sec-Butylbenzene	Ave	1.656	1.766		2.13	2.00	6.6	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.8224		2.06	2.00	3.0	30.0
Benzyl chloride	Ave	1.010	1.068		2.12	2.00	5.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.8004		2.04	2.00	1.9	30.0
4-Isopropyltoluene	Ave	1.399	1.514		2.16	2.00	8.2	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.098		2.11	2.00	5.4	50.0
Butylcyclohexane	Ave	0.9625	1.010		2.10	2.00	5.0	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.7904		2.08	2.00	3.9	30.0
Indane	Ave	1.073	1.121		2.09	2.00	4.5	50.0
Indene	Ave	1.019	1.098		2.16	2.00	7.8	50.0
Butylbenzene	Ave	1.239	1.429		2.31	2.00	15.3	30.0
Undecane	Ave	0.5595	0.6079		2.17	2.00	8.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.304		2.17	2.00	8.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.316		2.21	2.00	10.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8243		2.12	2.00	6.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	0.9877		1.99	2.00	-0.5	50.0
Dodecane	Ave	0.4200	0.2761		1.31	2.00	-34.3*	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.3831		1.51	2.00	-24.5	30.0
Naphthalene	Ave	0.8890	0.6638		1.49	2.00	-25.3	30.0
Benzo(b)thiophene	Ave	0.6431	0.4027		1.25	2.00	-37.4	50.0
Hexachlorobutadiene	Ave	0.6633	0.6727		2.03	2.00	1.4	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.2398		1.27	2.00	-36.7*	30.0
2-Methylnaphthalene	Ave	0.0420	0.0193		5.75	12.5	-54.0*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0165		5.65	12.5	-54.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9602		4.38	4.00	9.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1054-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1054-1

Air - GC/MS VOA

Analysis Batch: 958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1054-1	PCV-IA3-B21	Total/NA	Air	TO-15	
140-1054-2	PCV-IA2-B19	Total/NA	Air	TO-15	
140-1054-3	PCV-IA1-B21	Total/NA	Air	TO-15	
140-1054-4	PCV-IA1-B19	Total/NA	Air	TO-15	
LCS 140-958/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-958/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1054-5	PCV-IA3-B19	Total/NA	Air	TO-15	
140-1054-6	PCV-IA2-B21	Total/NA	Air	TO-15	
LCS 140-967/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-967/5	Method Blank	Total/NA	Air	TO-15	

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.25		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,1-Dichloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.51		ppb v/v		75	60 - 140
1,2,4-Trimethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.00		ppb v/v		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.33		ppb v/v		116	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.27		ppb v/v		113	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,3,5-Trimethylbenzene	2.00	2.03		ppb v/v		102	70 - 130
1,3-Butadiene	2.00	2.27		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	2.00	2.04		ppb v/v		102	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.79		ppb v/v		90	70 - 130
2,3-Dimethylpentane	2.00	1.93		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.58		ppb v/v		79	60 - 140
2-Hexanone	2.00	1.53		ppb v/v		76	60 - 140
2-Methylbutane	2.00	2.27		ppb v/v		113	70 - 130
2-Methylpentane	2.00	1.81		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.05		ppb v/v		102	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.53		ppb v/v		76	60 - 140
Acetone	2.00	1.92	J	ppb v/v		96	60 - 140
Benzene	2.00	2.05		ppb v/v		102	70 - 130
Benzyl chloride	2.00	2.12		ppb v/v		106	70 - 130
Bromodichloromethane	2.00	2.26		ppb v/v		113	70 - 130
Bromoform	2.00	1.71		ppb v/v		86	60 - 140
Bromomethane	2.00	2.53		ppb v/v		126	70 - 130
Carbon disulfide	2.00	2.16		ppb v/v		108	70 - 130
Carbon tetrachloride	2.00	2.45		ppb v/v		123	70 - 130
Chlorobenzene	2.00	1.98		ppb v/v		99	70 - 130
Chloroethane	2.00	2.48		ppb v/v		124	70 - 130
Chloroform	2.00	2.23		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
cis-1,3-Dichloropropene	2.00	2.17		ppb v/v		108	70 - 130
Cyclohexane	2.00	1.93		ppb v/v		96	70 - 130
Dibromochloromethane	2.00	2.02		ppb v/v		101	70 - 130
Dichlorodifluoromethane	2.00	2.49		ppb v/v		124	60 - 140
Ethanol	10.0	10.3		ppb v/v		103	20 - 180
Ethylbenzene	2.00	2.05		ppb v/v		102	70 - 130
Heptane	2.00	1.92		ppb v/v		96	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.03		ppb v/v		101	60 - 140
Hexane	2.00	1.86		ppb v/v		93	70 - 130
Indane	2.00	2.09		ppb v/v		105	20 - 180
Indene	2.00	2.16		ppb v/v		108	20 - 180
Isopropyl alcohol	2.00	1.97		ppb v/v		98	60 - 140
Methyl tert-butyl ether	2.00	2.19		ppb v/v		110	60 - 140
Methylene Chloride	2.00	2.14		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	4.41		ppb v/v		110	70 - 130
Naphthalene	2.00	1.49		ppb v/v		75	40 - 140
o-Xylene	2.00	2.10		ppb v/v		105	70 - 130
Propene	2.00	1.89		ppb v/v		94	60 - 140
Styrene	2.00	2.12		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	1.87		ppb v/v		94	70 - 130
Tetrahydrofuran	2.00	1.66		ppb v/v		83	60 - 140
Thiophene	2.00	1.99		ppb v/v		99	20 - 180
Toluene	2.00	1.94		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	1.99		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	2.00	1.99		ppb v/v		100	70 - 130
Trichloroethene	2.00	1.89		ppb v/v		95	70 - 130
Trichlorofluoromethane	2.00	2.64		ppb v/v		132	60 - 140
Vinyl chloride	2.00	2.47		ppb v/v		124	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.3		ug/m3		112	70 - 130
1,1,2,2-Tetrachloroethane	14	14.3		ug/m3		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.1		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	10.7		ug/m3		98	70 - 130
1,1-Dichloroethane	8.1	8.19		ug/m3		101	70 - 130
1,1-Dichloroethene	7.9	8.16		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	11.2		ug/m3		75	60 - 140
1,2,4-Trimethylbenzene	9.8	10.7		ug/m3		109	70 - 130
1,2-Dibromoethane (EDB)	15	15.4		ug/m3		100	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	16.3		ug/m3		116	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	9.19		ug/m3		113	70 - 130
1,2-Dichloropropane	9.2	9.04		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	9.8	9.99		ug/m3		102	70 - 130
1,3-Butadiene	4.4	5.01		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
1,4-Dichlorobenzene	12	12.3		ug/m3		102	70 - 130
1,4-Dioxane	7.2	5.66		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	8.37		ug/m3		90	70 - 130
2,3-Dimethylpentane	8.2	7.91		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.65		ug/m3		79	60 - 140
2-Hexanone	8.2	6.26		ug/m3		76	60 - 140
2-Methylbutane	5.9	6.70		ug/m3		113	70 - 130
2-Methylpentane	7.0	6.38		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-958/1002
Matrix: Air
Analysis Batch: 958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.1		ug/m3		102	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	6.25		ug/m3		76	60 - 140
Acetone	4.8	4.56	J	ug/m3		96	60 - 140
Benzene	6.4	6.54		ug/m3		102	70 - 130
Benzyl chloride	10	11.0		ug/m3		106	70 - 130
Bromodichloromethane	13	15.1		ug/m3		113	70 - 130
Bromoform	21	17.7		ug/m3		86	60 - 140
Bromomethane	7.8	9.82		ug/m3		126	70 - 130
Carbon disulfide	6.2	6.72		ug/m3		108	70 - 130
Carbon tetrachloride	13	15.4		ug/m3		123	70 - 130
Chlorobenzene	9.2	9.12		ug/m3		99	70 - 130
Chloroethane	5.3	6.54		ug/m3		124	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	7.55		ug/m3		95	70 - 130
cis-1,3-Dichloropropene	9.1	9.83		ug/m3		108	70 - 130
Cyclohexane	6.9	6.63		ug/m3		96	70 - 130
Dibromochloromethane	17	17.2		ug/m3		101	70 - 130
Dichlorodifluoromethane	9.9	12.3		ug/m3		124	60 - 140
Ethanol	19	19.4		ug/m3		103	20 - 180
Ethylbenzene	8.7	8.89		ug/m3		102	70 - 130
Heptane	8.2	7.86		ug/m3		96	70 - 130
Hexachlorobutadiene	21	21.6		ug/m3		101	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	10.1		ug/m3		105	20 - 180
Indene	9.5	10.2		ug/m3		108	20 - 180
Isopropyl alcohol	4.9	4.83		ug/m3		98	60 - 140
Methyl tert-butyl ether	7.2	7.90		ug/m3		110	60 - 140
Methylene Chloride	6.9	7.44		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	19.2		ug/m3		110	70 - 130
Naphthalene	10	7.83		ug/m3		75	40 - 140
o-Xylene	8.7	9.13		ug/m3		105	70 - 130
Propene	3.4	3.25		ug/m3		94	60 - 140
Styrene	8.5	9.05		ug/m3		106	70 - 130
Tetrachloroethene	14	12.7		ug/m3		94	70 - 130
Tetrahydrofuran	5.9	4.90		ug/m3		83	60 - 140
Thiophene	6.9	6.84		ug/m3		99	20 - 180
Toluene	7.5	7.31		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	7.91		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	9.1	9.05		ug/m3		100	70 - 130
Trichloroethene	11	10.2		ug/m3		95	70 - 130
Trichlorofluoromethane	11	14.9		ug/m3		132	60 - 140
Vinyl chloride	5.1	6.32		ug/m3		124	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1060-1	PCV-IA1-B7	Air	03/14/14 15:50	03/15/14 09:02
140-1060-2	PCV-IA2-B4	Air	03/14/14 16:45	03/15/14 09:02
140-1060-3	PCV-IA1-B6	Air	03/14/14 16:31	03/15/14 09:02
140-1060-4	PCV-IA2-B6	Air	03/14/14 16:34	03/15/14 09:02
140-1060-5	PCV-IA1-B15	Air	03/14/14 16:10	03/15/14 09:02
140-1060-6	PCV-IA2-B15	Air	03/14/14 16:16	03/15/14 09:02
140-1060-7	PCV-IA3-B15	Air	03/14/14 16:20	03/15/14 09:02
140-1060-8	PCV-AMB7	Air	03/14/14 15:47	03/15/14 09:02
140-1060-9	PCV-IA1-B17	Air	03/14/14 08:50	03/15/14 09:02
140-1060-10	PCV-IA2-B17	Air	03/14/14 16:30	03/15/14 09:02
140-1060-11	PCV-IA3FD-B17	Air	03/14/14 16:08	03/15/14 09:02
140-1060-12	PCV-IA3-B17	Air	03/14/14 13:55	03/15/14 09:02
140-1060-13	PCV-IA4-B17	Air	03/14/14 15:35	03/15/14 09:02
140-1060-14	PCV-IA5-B17	Air	03/14/14 15:55	03/15/14 09:02
140-1060-15	PCV-IA1-B9	Air	03/14/14 16:19	03/15/14 09:02
140-1060-16	PCV-IA1FD-B9	Air	03/14/14 16:17	03/15/14 09:02
140-1060-17	PCV-IA2-B9	Air	03/14/14 16:17	03/15/14 09:02
140-1060-18	PCV-IA1-B8	Air	03/14/14 16:45	03/15/14 09:02
140-1060-19	PCV-IA1FD-B8	Air	03/14/14 13:15	03/15/14 09:02
140-1060-20	PCV-IA2-B8	Air	03/14/14 16:03	03/15/14 09:02
140-1060-21	PCV-IA1-B20	Air	03/14/14 16:37	03/15/14 09:02
140-1060-22	PCV-IA2-B20	Air	03/14/14 16:35	03/15/14 09:02
140-1060-23	PCV-IA3-B20	Air	03/14/14 17:01	03/15/14 09:02
140-1060-24	PCV-AMB-8	Air	03/14/14 16:31	03/15/14 09:02

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Jessica Ehlen	1 of 4 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Peter Cooper Village - IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NY	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 +Cont Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B7	3/14/14	0815	1550	-30	-5	09915	09609	X							X				72 °F
PCV-IA2-B4	3/14/14	0834	1645	-30+	-6	2755	10815	X							X				68 °F

140-1060 Chain of Custody

Sampled by :	Temperature (Fahrenheit)	Interior	Ambient
J. Ehlen	Start		25°F
	Stop		46°F
J. Ehlen	Pressure (Inches of Hg)	Interior	Ambient
	Start		30.22
	Stop		30.07

Received @ ambient
No Custody seal
4 boxes
KL 3/15/14
UPS Next DAY AIR
1Z 083 95E 44 5931 6911

Special Instructions/QC Requirements & Comments:

* other = temp of room where sample was collected.

Canisters Shipped by:	Date/Time: 3/14/14 1900	Canisters Received by:
Samples Relinquished by: Jessica Ehlen	Date/Time: 3/14/14 17:50	Received by:
Relinquished by:	Date/Time:	Received by: KL 3/15/14 0902

KL 3/15/14
47cc 56 cc
24 cans
24 flow

TestAmerica Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921
phone 865.291.3000 fax 865.584.4315

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Jennifer Pfeffer	**Samples Collected By:** Kristen Barbour	COC No: 3 of 4 COCs
Company Name: AECOM	Phone: 516-591-7313		
Address: 125 Broad St	Email: Jessica.ehlen@aecom.com		For Lab Use Only:
City/State/Zip: NY NY 10004			Walk-in Client:
Phone: 212 377 8900	Site Contact: Jessica Ehlen		Lab Sampling:
FAX:	TA Contact: Janice McKinney		
Project Name: E 21st Street Works former MGP	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: Peter Cooper Village	Standard (Specific): Standard		(See below for Add'l Items)
PO#	Rush (Specify):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)"	Canister Vacuum in Field, "Hg (Stop)"	Flow Controller ID	Canister ID	TO-15 (Med / Storm Sew / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type: Comp / Grab	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
PCV-IA1-B17	3/14/14	850					10128	X								X	X	X				temp 70°F
PCV-IA2-B17		~~855~~	1630	-29	-6	~~10054~~ 09717	~~10358~~ 10259	X	10259							X	X	X				temp 66°F
PCV-IA~~FD~~ B17		900	1608	-30	-5.5	10617	10105	X								X	X	X				temp 65°F
PCV-IA3~~B~~-B17		900	1355	-26	-4	10357	~~10188~~	X	10815							X	X	X				temp 65°F
PCV-IA4-B17		905	1535	-30	-3	10128	~~10587~~	X	10262							X	X	X				temp 71°F
PCV-IA5-B17	↓	~~900~~	1555	-28	-5	10300	~~1073~~	X	10731							X	X	X				temp 65°F
PCV-IA1-B9		806	1619	-30	-2	09759	10238	X								X	X	X				temp 67°F
PCV-IAIFD-B9		804	1617	-30	-4	09706	11047	X								X	X	X				temp 67°F
PCV-IA2-B9	↓	800	1617	-30	-3	11239	10580	X								X	X	X				temp 62°F

KB

Temperature (Fahrenheit)				
	Interior	Ambient	START	END
Start				
Stop			25	44

KB

~~Temperature (Fahrenheit)~~ Pressure			
	Interior	Ambient	
Start			
Stop		30.22	30.05

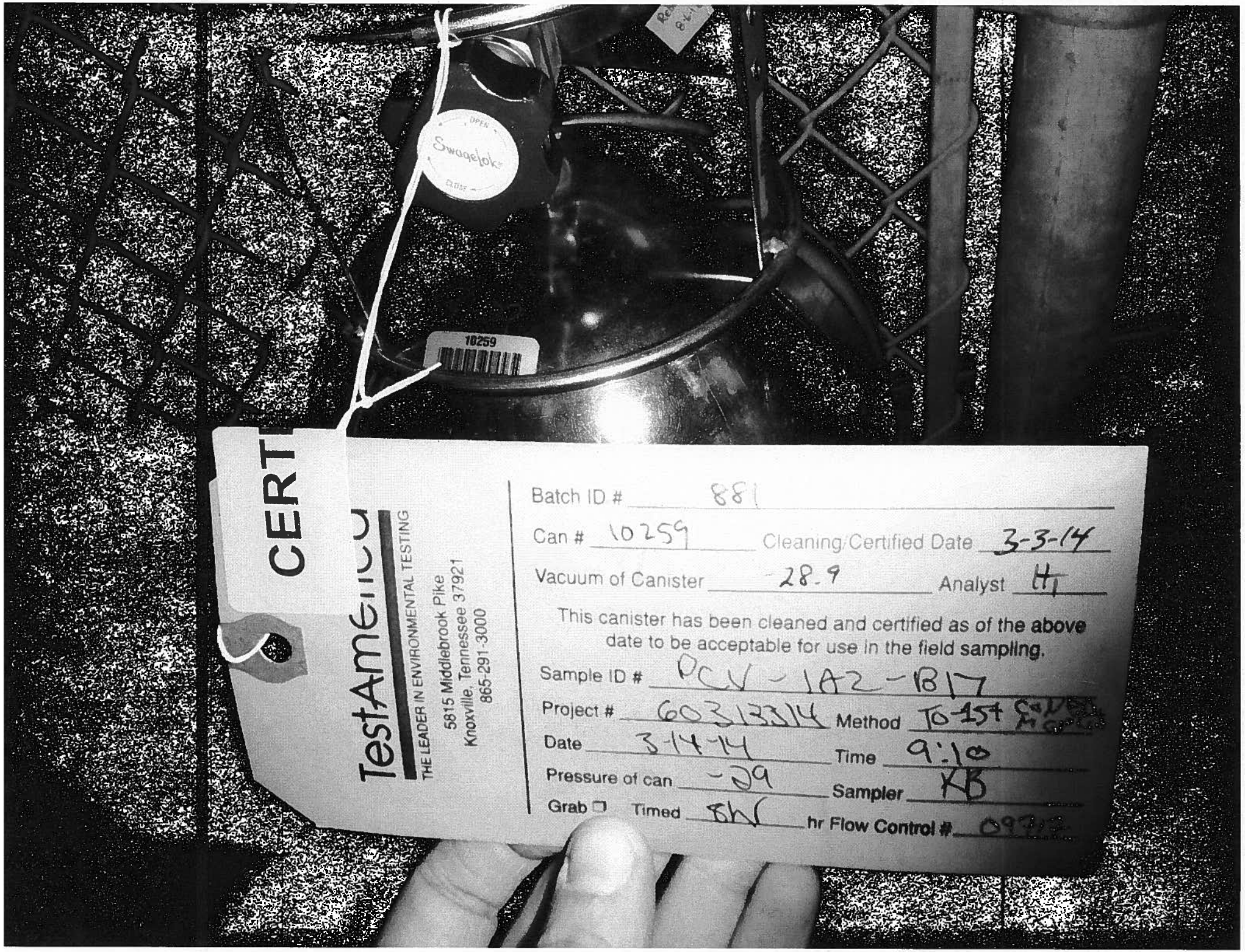
cmm 04/08/14 See attached photos of samples can tags for sampling information.

Special Instructions/QC Requirements & Comments:

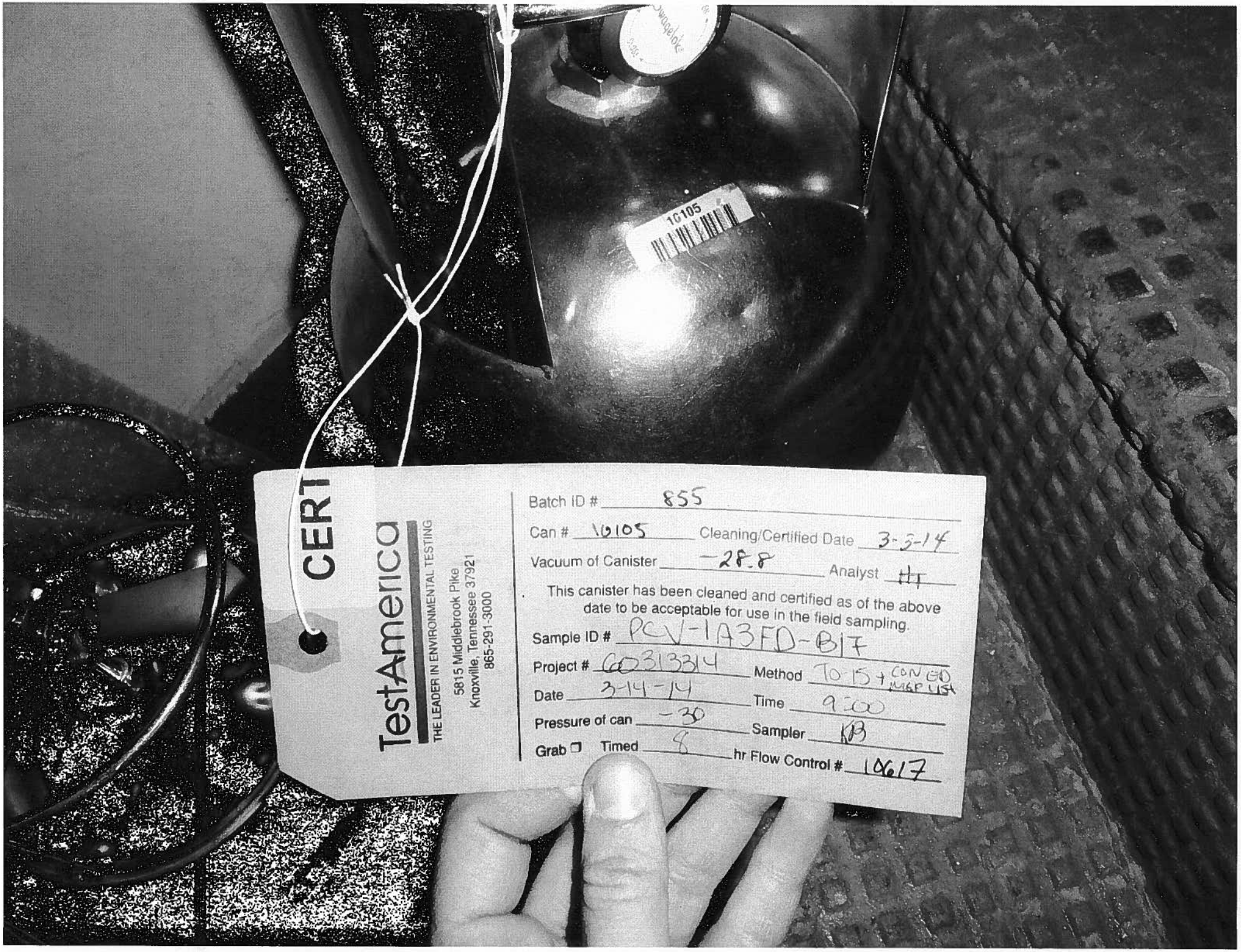
Samples Shipped by:	**Date / Time:** 3/14/14 1900	**Samples Received by:**
Samples Relinquished by:	**Date / Time:** 3/14/14 17:05	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:** KW 3/15/14 0902

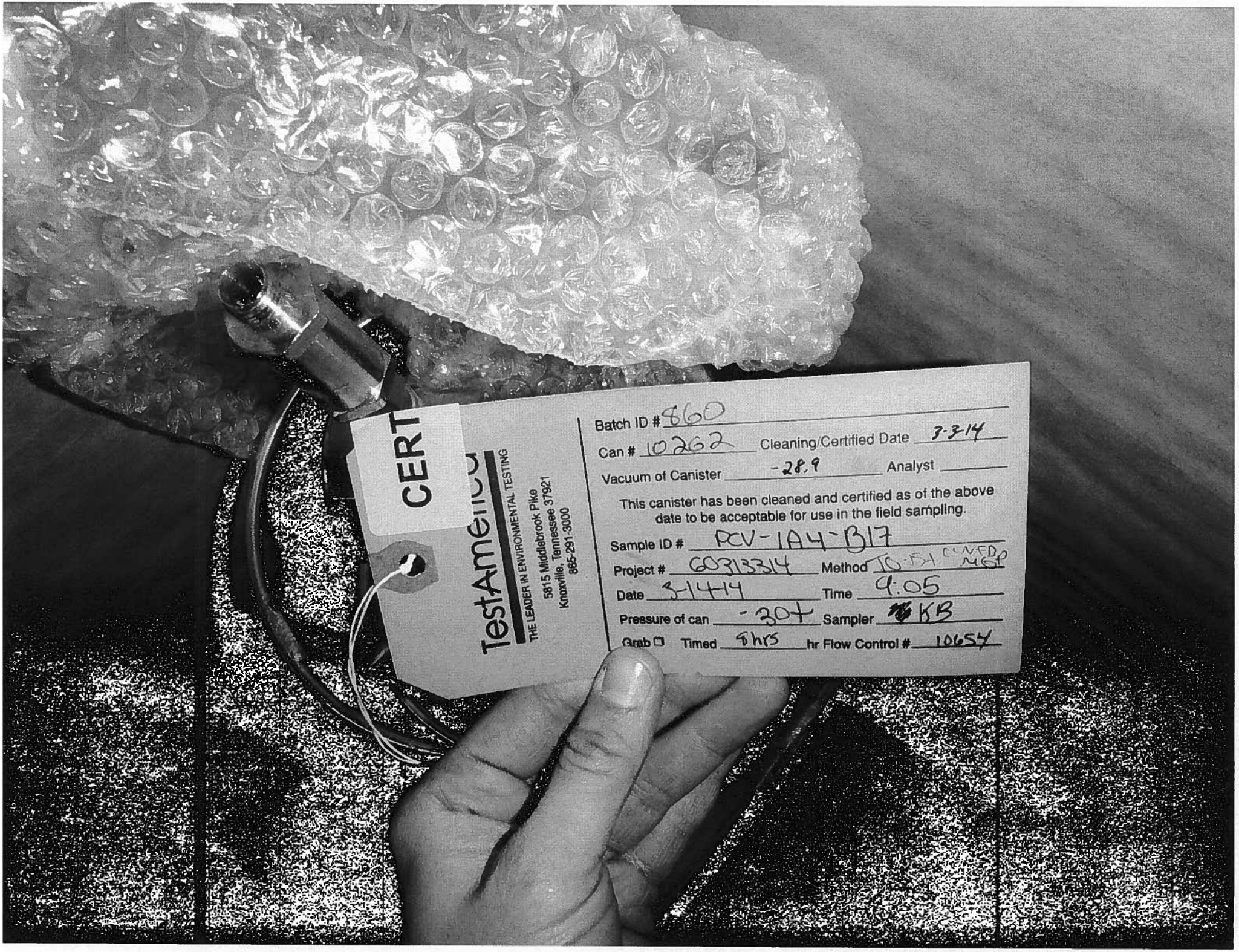
Lab Use Only: Shipper Name: Opened by: Condition:

CERT
TestAme
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 655
Can # 10128 Cleaning/Certified Date 3-3-14
Vacuum of Canister -28.9 Analyst KT
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # PCV-HH-1611
Project # 003334 Method TO-15 SCAN
Date 3/4/14 Time
Pressure of can
Grab


CERT
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 881
Can # 10259
Cleaning/Certified Date 3-3-14
Vacuum of Canister 28.9
Analyst
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # DCV - 1A2 - B17
Project # 603133.14
Method TO-15
Date 3-14-14
Time 9:10
Pressure of can -29
Sampler KB
Grab
Timed 8hr
hr Flow Control #
10259
OPEN
Swagelok
CLOSE

TestAmerica
CERTI
stAmerica
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 874
Can # 10815
Cleaning/Certified Date 3-3-14
Vacuum of Canister -29.2
Analyst HT
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # PCV-1A3-B17
Project # 60313314
Method TO-15+ CUMED MGP LIST
Date 3-14-14
Time 9:00
Pressure of can KB 30 -26
Sampler KB
Grab ☐ Timed 8 hr Flow Control # 10357


CERT
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 855
Can # 10105
Cleaning/Certified Date 3-3-14
Vacuum of Canister -28.8
Analyst HT
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # PCV-1A3FD-B17
Project # 60313314
Method TO 15 + CONED MGP LIST
Date 3-14-14
Time 9:00
Pressure of can -30
Sampler KB
Grab ☐ Timed 8 hr Flow Control # 10617
10105


CERT
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 860
Can # 10262
Cleaning/Certified Date 3-3-14
Vacuum of Canister -28.9
Analyst
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # PCV-1A4-B17
Project # 60313314
Method TO-15 CVFD SGP
Date 3-14-14
Time 9:05
Pressure of can -30
Sampler KB
Grab
Timed 9hrs
hr Flow Control # 10654

CERT
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
5815 Middlebrook Pike
Knoxville, Tennessee 37921
865-291-3000
Batch ID # 855
Can # 10731 Cleaning/Certified Date 3-3-14
Vacuum of Canister -29.0 Analyst HH
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # QCV-1AS-617
Project # 60313314 Method TO-15 + CONED MS(SIM)
Date 3-14-14 Time 0900
Pressure of can -28 Sampler KB
Grab ☐ Timed 8 hr Flow Control # 10300

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Jennifer Pfeiffer	**Sampled By:** Sara Meissner	4 of 4 COCs
Company: AECOM	**Phone:** 516-581-7313		
Address: 125 Broad Street	**Site Contact:** Jessica Ehlen		
City/State/Zip New York, NY	**TAL Contact:** Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Peter Cooper Village IA	**Analysis Turnaround Time**		
Site/location: Peter Cooper Village, NYC	Standard (Specify) X		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MbP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-B8	3/14/14	0830	1645	-30+	-5	10242	09994	X							X				59°
PCV-IA1FD-B8	3/14/14	0830	1715	-28	-5	10596	09990	X							X				59°
PCV-IA2-B8	3/14/14	0835	1603	-30	-5	10787	10005	X							X				63°
PCV-IA1-B20	3/14/14	0900	1637	-30	-5	09910	09824	X							X				67°
PCV-IA2-B20	3/14/14	0850	1635	-30	-4	09701	10248	X							X				67°
PCV-IA3-B20	3/14/14	0845	1701	-30	-12	10081	09516	X							X				65°
[redacted] PCV-AMB-8	3/14/14	0840	1631	[redacted]	[redacted]	10161	10829	X								X			33°

	Interior Temp	Ambient Temp
Start	69°	25° F
Stop	69°	46° F

Pressure (inches of Hg)	Interior	Ambient
Start		30.22"
Stop		30.07"

Special Instructions/QC Requirements & Comments:
Note: 7 samples on COC (Last one AMB-8 Start Hg = -30+, End Hg = -5)

Canisters Shipped by:	Date/Time: 3/14/14 1900	Canisters Received by:	
Samples Relinquished by:	Date/Time: 3/14/14 17:28	Received by:	
Relinquished by:	Date/Time:	Received by: KW 3/15/14 0802	

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03/28/2014

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	2 of 4 COCs
Company: AECOM	Phone: 212-377-8706		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: NY, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8916			
Project Name: Peter Cooper Village, JA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NY	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + CoEd MGP(15)	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air (curbside)	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-1A1-B6	3-14-14	8:26	-5	-30	16.31	31858	10848	X							X				61 °F
PCV-1A2-B6		8:20	-5	-30	16.34	09708	09819	X							X				60 °F
PCV-1A1-B15		8:48	-5	-30	16:10	3713	09629	X							X				73 °F
PCV-1A2-B15		8:59	-5	-30	16:16	41056	09534	X							X				74 °F
PCV-1A3-B15		9:50	-6	-30	16.20	3786	10778	X							X				74 °F
PCV-AMB7		8:31	-5	-30	15:47	10287	11045	X								X			32 °F

Sampled by : J. Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		25 °F
Stop		46 °F

J. Christoffel

Pressure (Inches of Hg)	Interior	Ambient
Start		30.22
Stop		30.07

Special Instructions/QC Requirements & Comments:
OTHER: TEMPS @ SAMPLE LOCATION

Canisters Shipped by:	Date/Time: 3/14/14 1900	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: 3/14/14 17:01	Received by:
Relinquished by:	Date/Time:	Received by: KW 3/15/14 0802

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
DDF	3/17/2014	10.01	140-1060-a-1	X		-4.6	
DDF	3/17/2014	10.02	140-1060-a-2	X		-3.5	
DDF	3/17/2014	10.03	140-1060-a-3	X		-1.3	
DDF	3/17/2014	10.04	140-1060-a-4	X		-2.50	
DDF	3/17/2014	10.05	140-1060-a-5	X		0	
DDF	3/17/2014	10.06	140-1060-a-6	X		-1.2	
DDF	3/17/2014	10.07	140-1060-a-7	X		-4.5	
DDF	3/17/2014	10.08	140-1060-a-8	X		-2.5	
DDF	3/17/2014	10.09	140-1060-a-9	X		+0.5	
DDF	3/17/2014	10.10	140-1060-a-10	X		+0.6	
DDF	3/17/2014	10.11	140-1060-a-11	X		-2.3	
DDF	3/17/2014	10.12	140-1060-a-12	X		0	
DDF	3/17/2014	10.13	140-1060-a-13	X		0	
DDF	3/17/2014	10.14	140-1060-a-14	X		-5.9	
DDF	3/17/2014	10.15	140-1060-a-15	X		0	
DDF	3/17/2014	10.16	140-1060-a-16	X		-3.2	
DDF	3/17/2014	10.17	140-1060-a-17	X		0	
DDF	3/17/2014	10.18	140-1060-a-18	X		-5.4	
DDF	3/17/2014	10.19	140-1060-a-19	X		-3.4	
DDF	3/17/2014	10.20	140-1060-a-20	X		-5.4	
DDF	3/17/2014	10.21	140-1060-a-21	X		-4.9	
DDF	3/17/2014	10.22	140-1060-a-22	X		-3.9	
DDF	3/17/2014	10.23	140-1060-a-23	X		-11.9	
DDF	3/17/2014	10.24	140-1060-a-24	X		-2.7	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1060-1

Login Number: 1060
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Malzone, Greg

From: McKinney, Jamie <Jamie.McKinney@testamericainc.com>
Sent: Tuesday, April 08, 2014 11:24 AM
To: Malzone, Greg
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: RE: 140-1060-1 6-L Summa Canister ID Question

Hey Greg!
See my comments below. Please let me know if you have any other questions.
Jamie

JAMIE MCKINNEY
Senior Project Manager

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From: Malzone, Greg [mailto:greg.malzone@aecom.com]
Sent: Tuesday, April 08, 2014 10:54 AM
To: McKinney, Jamie
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: 140-1060-1 6-L Summa Canister ID Question

Hi Jamie:

In doing the data validation for the ConEd/21st Street air samples, I have a question regarding three canister IDs. See attached information on project 140-1060-1.

The canister ID listed on the CoC for PCV-IA3-B17 is "10188." There is no clean canister certification record for "10188." The clean canister certification records do have an ID of "10185." The can listed on the COC was incorrect. This was can 10815. The data starts on page 1373.

The canister ID listed on the CoC for PCV-IA4-B17 is "10587." There is no clean canister certification record for "10587." The clean canister certification records do have an ID of "10578." The can listed on the COC was incorrect. This was can 10262. The data starts on page 1313.

The canister ID listed on the CoC for PCV-IA5-B17 is "1073." There is no clean canister certification record for "1073." The clean canister certification records do have IDs of "10731" and "10733." The can listed on the COC was incomplete. This was can 10731. The data starts on page 1289.

Has there been a transcription of typographical error made?

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Job Narrative
140-1060-1

Comments
No additional comments.

Receipt
The samples were received on 3/15/2014 9:02 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-14A, TO-15: The continuing calibration verification (CCV) associated with batch 967 exhibited % difference of > 30% for the following analyte(s) 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-14A, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 967: bromomethane, chloroethane and/or pentane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: The continuing calibration verification (CCV) associated with batch 977 exhibited % difference of > 30% for the following analyte(s) 4-methyl-2-pentanone, bromoform and 1,2,4-trichlorobenzene, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 977: tetrahydrofuran, hexachlorobutadiene and naphthalene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

Method(s) TO-15: Canister certification #959 forMIBK is shown as above the reporting limit for a low-level analysis, however, the result is less than the reporting limit required for this project.

No other analytical or quality issues were noted.

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-959-1

SDG No.:

Client Sample ID: 09629 | Lab Sample ID: 140-959-8 PCV-IA1-B15 #5

Matrix: Air | Lab File ID: 140-959-a-8.D

Analysis Method: TO 15 LL | Date Collected: 02/26/2014 11:10

Sample wt/vol: 500(mL) | Date Analyzed: 03/03/2014 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 907 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.20		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 758

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.5268	+++++ 0.5924	0.8601 0.5062	1.1107 0.4830	0.5039	Ave		0.6547				37.0	*	30.0			
Hexane	+++++ 1.0521	1.2793 1.0059	1.1645 0.9370	1.0729 0.9019	1.0983	Ave		1.0640				11.0		30.0			
C6 Range	+++++ 2.7654	+++++ 2.5187	3.3356 2.2767	3.4064 2.1965	2.6621	Ave		2.7373				17.0		30.0			
cis-1,2-Dichloroethene	1.3889 1.3728	1.4224 1.3438	1.4697 1.2497	1.3680 1.2095	1.4258	Ave		1.3612				6.2		30.0			
Ethyl acetate	2.5552 1.9215	2.1948 2.2295	2.3675 1.9811	2.2288 1.8925	1.7988	Ave		2.1300				12.0		30.0			
Chloroform	3.7867 3.3848	3.8316 3.2852	3.8044 2.9281	3.5448 2.7108	3.5677	Ave		3.4271				12.0		30.0			
Tetrahydrofuran	1.1554 0.9205	1.0993 1.0675	1.1611 0.9604	1.0713 0.9360	0.8636	Ave		1.0261				11.0		30.0			
1,1,1-Trichloroethane	4.3435 3.8810	4.3129 3.7622	4.2088 3.3408	4.0462 3.0559	4.0377	Ave		3.8877				11.0		30.0			
1,2-Dichloroethane	0.5109 0.4936	0.5474 0.4768	0.5637 0.4305	0.5166 0.4107	0.4621	Ave		0.4903				10.0		30.0			
1-Butanol	+++++ 0.0857	+++++ 0.0639	0.0709 0.0712	0.0941 0.0682	0.0679	Ave		0.0746				15.0		30.0			
Cyclohexane	0.1482 0.1621	0.1791 0.1412	0.1650 0.1323	0.1462 0.1285	0.1558	Ave		0.1509				11.0		30.0			
Benzene	0.9673 0.7817	0.9062 0.7711	0.9156 0.7033	0.8225 0.6545	0.7228	Ave		0.8050				13.0		30.0			
Carbon tetrachloride	0.7885 0.8484	0.8824 0.7486	0.8363 0.6619	0.7170 0.6317	0.8449	Ave		0.7733				11.0		30.0			
2,3-Dimethylpentane	0.1905 0.1954	0.2161 0.1776	0.1974 0.1664	0.1859 0.1660	0.1912	Ave		0.1874				8.5		40.0			
Thiophene	0.5338 0.5013	0.5459 0.4962	0.5523 0.4549	0.5089 0.4410	0.4677	Ave		0.5002				7.9		40.0			
2,2,4-Trimethylpentane	1.3499 1.2995	1.4560 1.1648	1.3618 1.0472	1.2643 0.9736	1.2673	Ave		1.2427				12.0		30.0			
Heptane	+++++ 0.3231	+++++ 0.2984	0.3458 0.2744	0.3110 0.2705	0.3098	Ave		0.3047				8.7		30.0			
1,2-Dichloropropane	0.2656 0.2506	0.2845 0.2604	0.2902 0.2407	0.2690 0.2379	0.2283	Ave		0.2586				8.2		30.0			
Trichloroethene	0.4144 0.4153	0.4415 0.3821	0.4237 0.3548	0.3955 0.3483	0.4018	Ave		0.3975				7.8		30.0			
Dibromomethane	0.4031 0.3887	0.4211 0.3711	0.4155 0.3395	0.3885 0.3270	0.3643	Ave		0.3799				8.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989				13.0		30.0			
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807				6.7		30.0			
Acrolein	+++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266				18.0		30.0			
Acetonitrile	+++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607				12.0		30.0			
Acetone	+++++ 0.5780	+++++ 0.3424	+++++ 0.3699	0.7210 +++++	0.8316	Ave		0.5686				38.0	*	30.0			
Isopropyl alcohol	+++++ 1.4403	+++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014				7.8		30.0			
Pentane	+++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152				7.7		30.0			
Ethyl ether	+++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466				13.0		30.0			
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230				7.9		30.0			
tert-Butyl alcohol	+++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495				12.0		30.0			
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119				6.2		30.0			
Methylene Chloride	+++++ 1.0284	+++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701				14.0		30.0			
3-Chloropropene	+++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131				17.0		30.0			
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629				7.3		30.0			
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526				9.5		30.0			
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866				12.0		40.0			
Methyl tert-butyl ether	+++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415				9.8		30.0			
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108				11.0		30.0			
Vinyl acetate	+++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6977		2.49	2.00	24.4	30.0
Propene	Ave	1.006	0.9218		1.83	2.00	-8.4	30.0
Dichlorodifluoromethane	Ave	4.425	5.594		2.53	2.00	26.4	30.0
Chloromethane	Ave	0.3532	0.3888		2.20	2.00	10.1	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.537		2.65	2.00	32.6*	30.0
Acetaldehyde	Ave	0.3349	0.4070		12.2	10.0	21.5	50.0
Vinyl chloride	Ave	1.364	1.720		2.52	2.00	26.1	30.0
1,3-Butadiene	Ave	0.9428	1.146		2.43	2.00	21.5	30.0
Butane	Ave	1.913	2.183		2.28	2.00	14.1	30.0
Bromomethane	Ave	1.473	1.945		2.64	2.00	32.1*	30.0
Chloroethane	Ave	0.6922	0.9185		2.65	2.00	32.7*	30.0
Ethanol	Ave	0.4001	0.4311		10.8	10.0	7.8	50.0
Vinyl bromide	Ave	1.331	1.833		2.75	2.00	37.7*	30.0
2-Methylbutane	Ave	1.401	1.682		2.40	2.00	20.1	30.0
Trichlorofluoromethane	Ave	4.438	5.973		2.69	2.00	34.6*	30.0
Acrolein	Ave	0.4230	0.5396		2.55	2.00	27.5	30.0
Acetonitrile	Ave	0.3806	0.4715		2.48	2.00	23.9	30.0
Acetone	Ave	0.6059	0.6001		1.98	2.00	-1.0	30.0
Pentane	Ave	0.2626	0.3539		2.69	2.00	34.7*	30.0
Isopropyl alcohol	Ave	1.560	1.781		2.28	2.00	14.2	30.0
Ethyl ether	Ave	1.018	1.146		2.25	2.00	12.6	30.0
1,1-Dichloroethene	Ave	1.190	1.232		2.07	2.00	3.6	30.0
tert-Butyl alcohol	Ave	2.208	2.309		2.09	2.00	4.6	30.0
Acrylonitrile	Ave	0.7008	0.6720		1.92	2.00	-4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.046		2.22	2.00	10.8	30.0
Methylene Chloride	Ave	1.143	1.196		2.09	2.00	4.7	30.0
3-Chloropropene	Ave	1.349	1.399		2.07	2.00	3.7	30.0
Carbon disulfide	Ave	4.140	4.280		2.07	2.00	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.495		2.05	2.00	2.5	30.0
2-Methylpentane	Ave	2.634	2.363		1.79	2.00	-10.3	50.0
Methyl tert-butyl ether	Ave	3.630	4.039		2.23	2.00	11.3	30.0
1,1-Dichloroethane	Ave	2.467	2.510		2.03	2.00	1.7	30.0
Vinyl acetate	Ave	2.433	2.329		1.91	2.00	-4.3	30.0
2-Butanone (MEK)	Ave	0.6547	0.5340		1.63	2.00	-18.4	30.0
Hexane	Ave	1.064	0.9923		1.87	2.00	-6.7	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.354		1.99	2.00	-0.5	30.0
Ethyl acetate	Ave	2.130	1.952		1.83	2.00	-8.4	30.0
Chloroform	Ave	3.427	3.849		2.25	2.00	12.3	30.0
Tetrahydrofuran	Ave	1.026	0.8459		1.65	2.00	-17.6	30.0
1,1,1-Trichloroethane	Ave	3.888	4.439		2.28	2.00	14.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5656		2.31	2.00	15.4	30.0
1-Butanol	Ave	0.0746	0.0598		1.60	2.00	-19.8	30.0
Cyclohexane	Ave	0.1509	0.1504		1.99	2.00	-0.4	30.0
Benzene	Ave	0.8050	0.8370		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7733	0.9379		2.43	2.00	21.3	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1827		1.95	2.00	-2.5	50.0
Thiophene	Ave	0.5002	0.5109		2.04	2.00	2.1	50.0
2,2,4-Trimethylpentane	Ave	1.243	1.147		1.85	2.00	-7.7	30.0
Heptane	Ave	0.3047	0.3089		2.03	2.00	1.4	30.0
1,2-Dichloropropane	Ave	0.2586	0.2551		1.97	2.00	-1.3	30.0
Trichloroethene	Ave	0.3975	0.3948		1.99	2.00	-0.7	30.0
Dibromomethane	Ave	0.3799	0.4090		2.15	2.00	7.7	30.0
Bromodichloromethane	Ave	0.7571	0.8749		2.31	2.00	15.6	30.0
1,4-Dioxane	Ave	0.1068	0.0977		1.83	2.00	-8.5	30.0
Methyl methacrylate	Ave	0.3033	0.2884		1.90	2.00	-4.9	30.0
Methylcyclohexane	Ave	0.5694	0.5593		1.96	2.00	-1.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4284		1.81	2.00	-9.6	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4998		2.19	2.00	9.5	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.6011		2.23	2.00	11.3	30.0
Toluene	Ave	1.072	1.137		2.12	2.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3333		2.11	2.00	5.7	30.0
2-Methylthiophene	Ave	0.9307	0.9824		2.11	2.00	5.6	50.0
3-Methylthiophene	Ave	0.9375	0.998		2.13	2.00	6.5	50.0
2-Hexanone	Ave	0.2529	0.2243		1.77	2.00	-11.3	30.0
Octane	Ave	0.3821	0.4109		2.15	2.00	7.5	30.0
Dibromochloromethane	Ave	0.7144	0.8573		2.40	2.00	20.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.6170		2.19	2.00	9.6	30.0
Tetrachloroethene	Ave	0.4564	0.4820		2.11	2.00	5.6	30.0
Chlorobenzene	Ave	0.8545	0.9215		2.16	2.00	7.8	30.0
2,3-Dimethylheptane	Ave	0.8208	0.7877		1.92	2.00	-4.0	50.0
Ethylbenzene	Ave	1.374	1.543		2.25	2.00	12.3	30.0
2-Ethylthiophene	Ave	1.101	1.252		2.27	2.00	13.7	50.0
m-Xylene & p-Xylene	Ave	1.080	1.277		4.73	4.00	18.3	30.0
Nonane	Ave	0.5994	0.5936		1.98	2.00	-1.0	30.0
Bromoform	Ave	0.6422	0.8265		2.57	2.00	28.7	30.0
Styrene	Ave	0.7475	0.8659		2.32	2.00	15.8	30.0
o-Xylene	Ave	1.168	1.327		2.27	2.00	13.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7577		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2817		2.25	2.00	12.5	30.0
Isopropylbenzene	Ave	1.542	1.740		2.26	2.00	12.8	30.0
Propylbenzene	Ave	0.4031	0.4381		2.17	2.00	8.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-967/2 Calibration Date: 03/17/2014 14:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4128		2.15	2.00	7.4	30.0
4-Ethyltoluene	Ave	1.477	1.661		2.25	2.00	12.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7489		2.24	2.00	11.9	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6454		2.34	2.00	16.8	30.0
Decane	Ave	0.6339	0.7158		2.26	2.00	12.9	30.0
tert-Butylbenzene	Ave	1.348	1.570		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.476		2.40	2.00	20.2	30.0
sec-Butylbenzene	Ave	1.656	1.977		2.39	2.00	19.3	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9289		2.33	2.00	16.4	30.0
Benzyl chloride	Ave	1.010	1.284		2.54	2.00	27.2	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9054		2.31	2.00	15.3	30.0
4-Isopropyltoluene	Ave	1.399	1.732		2.48	2.00	23.8	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.224		2.35	2.00	17.5	50.0
Butylcyclohexane	Ave	0.9625	1.123		2.33	2.00	16.7	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.8871		2.33	2.00	16.6	30.0
Indane	Ave	1.073	1.253		2.34	2.00	16.8	50.0
Indene	Ave	1.019	1.244		2.44	2.00	22.0	50.0
Butylbenzene	Ave	1.239	1.646		2.66	2.00	32.8*	30.0
Undecane	Ave	0.5595	0.6360		2.27	2.00	13.7	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.580		2.63	2.00	31.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.631		2.74	2.00	37.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.029		2.65	2.00	32.4	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.281		2.58	2.00	29.0	50.0
Dodecane	Ave	0.4200	0.5167		2.46	2.00	23.0	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5603		2.21	2.00	10.4	30.0
Naphthalene	Ave	0.8890	1.115		2.51	2.00	25.4	30.0
Benzo(b)thiophene	Ave	0.6431	0.7200		2.24	2.00	12.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.8016		2.42	2.00	20.8	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4624		2.44	2.00	22.0	30.0
2-Methylnaphthalene	Ave	0.0420	0.0792		23.6	12.5	88.6*	50.0
1-Methylnaphthalene	Ave	0.0366	0.0700		23.9	12.5	91.5*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9496		4.34	4.00	8.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6131		2.19	2.00	9.3	30.0
Propene	Ave	1.006	0.7148		1.42	2.00	-29.0	30.0
Dichlorodifluoromethane	Ave	4.425	4.988		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3370		1.91	2.00	-4.6	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.378		2.53	2.00	26.7	30.0
Acetaldehyde	Ave	0.3349	0.2969		8.86	10.0	-11.4	50.0
Vinyl chloride	Ave	1.364	1.486		2.18	2.00	8.9	30.0
1,3-Butadiene	Ave	0.9428	0.9411		2.00	2.00	-0.2	30.0
Butane	Ave	1.913	1.753		1.83	2.00	-8.3	30.0
Bromomethane	Ave	1.473	1.790		2.43	2.00	21.6	30.0
Chloroethane	Ave	0.6922	0.7626		2.20	2.00	10.2	30.0
Ethanol	Ave	0.4001	0.3906		9.76	10.0	-2.4	50.0
Vinyl bromide	Ave	1.331	1.806		2.71	2.00	35.7*	30.0
2-Methylbutane	Ave	1.401	1.348		1.93	2.00	-3.7	30.0
Trichlorofluoromethane	Ave	4.438	5.702		2.57	2.00	28.5	30.0
Acrolein	Ave	0.4230	0.3395		1.60	2.00	-19.8	30.0
Acetonitrile	Ave	0.3806	0.3557		1.87	2.00	-6.5	30.0
Acetone	Ave	0.6059	0.5382		1.78	2.00	-11.2	30.0
Pentane	Ave	0.2626	0.3010		2.29	2.00	14.6	30.0
Isopropyl alcohol	Ave	1.560	1.612		2.07	2.00	3.3	30.0
Ethyl ether	Ave	1.018	0.7761		1.52	2.00	-23.8	30.0
1,1-Dichloroethene	Ave	1.190	1.321		2.22	2.00	11.0	30.0
tert-Butyl alcohol	Ave	2.208	2.147		1.94	2.00	-2.8	30.0
Acrylonitrile	Ave	0.7008	0.5085		1.45	2.00	-27.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.047		2.22	2.00	10.9	30.0
Methylene Chloride	Ave	1.143	1.132		1.98	2.00	-1.0	30.0
3-Chloropropene	Ave	1.349	1.091		1.62	2.00	-19.2	30.0
Carbon disulfide	Ave	4.140	3.873		1.87	2.00	-6.5	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.487		2.04	2.00	2.0	30.0
2-Methylpentane	Ave	2.634	1.737		1.32	2.00	-34.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.200		1.76	2.00	-11.9	30.0
1,1-Dichloroethane	Ave	2.467	2.139		1.73	2.00	-13.3	30.0
Vinyl acetate	Ave	2.433	1.463		1.20	2.00	-39.9*	30.0
2-Butanone (MEK)	Ave	0.6547	0.4594		1.40	2.00	-29.8	30.0
Hexane	Ave	1.064	0.8021		1.51	2.00	-24.6	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.320		1.94	2.00	-3.0	30.0
Ethyl acetate	Ave	2.130	1.323		1.24	2.00	-37.9*	30.0
Chloroform	Ave	3.427	3.245		1.89	2.00	-5.3	30.0
Tetrahydrofuran	Ave	1.026	0.5818		1.13	2.00	-43.3*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.014		2.07	2.00	3.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4577		1.87	2.00	-6.6	30.0
1-Butanol	Ave	0.0746	0.0473		1.27	2.00	-36.6*	30.0
Cyclohexane	Ave	0.1509	0.1334		1.77	2.00	-11.6	30.0
Benzene	Ave	0.8050	0.7288		1.81	2.00	-9.5	30.0
Carbon tetrachloride	Ave	0.7733	0.9574		2.48	2.00	23.8	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1647		1.76	2.00	-12.1	50.0
Thiophene	Ave	0.5002	0.4606		1.84	2.00	-7.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.9644		1.55	2.00	-22.4	30.0
Heptane	Ave	0.3047	0.2717		1.78	2.00	-10.8	30.0
1,2-Dichloropropane	Ave	0.2586	0.2092		1.62	2.00	-19.1	30.0
Trichloroethene	Ave	0.3975	0.4201		2.11	2.00	5.7	30.0
Dibromomethane	Ave	0.3799	0.3764		1.98	2.00	-0.9	30.0
Bromodichloromethane	Ave	0.7571	0.7642		2.02	2.00	0.9	30.0
1,4-Dioxane	Ave	0.1068	0.1085		2.03	2.00	1.5	30.0
Methyl methacrylate	Ave	0.3033	0.2072		1.37	2.00	-31.7*	30.0
Methylcyclohexane	Ave	0.5694	0.5199		1.83	2.00	-8.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.3137		1.32	2.00	-33.8*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4072		1.78	2.00	-10.8	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.4669		1.73	2.00	-13.6	30.0
Toluene	Ave	1.072	1.006		1.88	2.00	-6.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2845		1.80	2.00	-9.8	30.0
2-Methylthiophene	Ave	0.9307	0.9345		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9366		2.00	2.00	-0.1	50.0
2-Hexanone	Ave	0.2529	0.2011		1.59	2.00	-20.5	30.0
Octane	Ave	0.3821	0.3936		2.06	2.00	3.0	30.0
Dibromochloromethane	Ave	0.7144	0.8514		2.38	2.00	19.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5576		1.98	2.00	-1.0	30.0
Tetrachloroethene	Ave	0.4564	0.5102		2.24	2.00	11.8	30.0
Chlorobenzene	Ave	0.8545	0.9147		2.14	2.00	7.0	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5823		1.42	2.00	-29.1	50.0
Ethylbenzene	Ave	1.374	1.334		1.94	2.00	-2.9	30.0
2-Ethylthiophene	Ave	1.101	1.132		2.06	2.00	2.9	50.0
m-Xylene & p-Xylene	Ave	1.080	1.123		4.16	4.00	4.0	30.0
Nonane	Ave	0.5994	0.4920		1.64	2.00	-17.9	30.0
Bromoform	Ave	0.6422	0.8649		2.69	2.00	34.7*	30.0
Styrene	Ave	0.7475	0.7951		2.13	2.00	6.4	30.0
o-Xylene	Ave	1.168	1.179		2.02	2.00	0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.6578		1.91	2.00	-4.3	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2683		2.14	2.00	7.2	30.0
Isopropylbenzene	Ave	1.542	1.657		2.15	2.00	7.4	30.0
Propylbenzene	Ave	0.4031	0.4305		2.14	2.00	6.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-977/2 Calibration Date: 03/20/2014 13:10

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4193		2.18	2.00	9.1	30.0
4-Ethyltoluene	Ave	1.477	1.606		2.17	2.00	8.7	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7524		2.25	2.00	12.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6536		2.37	2.00	18.3	30.0
Decane	Ave	0.6339	0.5849		1.85	2.00	-7.7	30.0
tert-Butylbenzene	Ave	1.348	1.532		2.27	2.00	13.7	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.464		2.38	2.00	19.2	30.0
sec-Butylbenzene	Ave	1.656	1.919		2.32	2.00	15.9	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.9756		2.44	2.00	22.2	30.0
Benzyl chloride	Ave	1.010	1.146		2.27	2.00	13.5	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9456		2.41	2.00	20.4	30.0
4-Isopropyltoluene	Ave	1.399	1.715		2.45	2.00	22.6	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.226		2.35	2.00	17.7	50.0
Butylcyclohexane	Ave	0.9625	1.006		2.09	2.00	4.5	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9478		2.49	2.00	24.6	30.0
Indane	Ave	1.073	1.244		2.32	2.00	16.0	50.0
Indene	Ave	1.019	1.254		2.46	2.00	23.1	50.0
Butylbenzene	Ave	1.239	1.520		2.45	2.00	22.7	30.0
Undecane	Ave	0.5595	0.5470		1.96	2.00	-2.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.606		2.67	2.00	33.6	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.644		2.76	2.00	38.2	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.040		2.68	2.00	33.8	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.323		2.67	2.00	33.3	50.0
Dodecane	Ave	0.4200	0.5174		2.46	2.00	23.2	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6801		2.68	2.00	34.0*	30.0
Naphthalene	Ave	0.8890	1.256		2.83	2.00	41.3*	30.0
Benzo(b)thiophene	Ave	0.6431	0.8876		2.76	2.00	38.0	50.0
Hexachlorobutadiene	Ave	0.6633	0.9790		2.95	2.00	47.6*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.6021		3.18	2.00	58.8*	30.0
2-Methylnaphthalene	Ave	0.0420	0.1220		36.3	12.5	190.5*	50.0
1-Methylnaphthalene	Ave	0.0366	0.1101		37.6	12.5	201.1*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8723		3.98	4.00	-0.4	30.0

Used for m&p-xylene and Ethanol only. GAM 04/09/14.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6018		2.15	2.00	7.3	30.0
Propene	Ave	1.006	0.6738		1.34	2.00	-33.0*	30.0
Dichlorodifluoromethane	Ave	4.425	4.986		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3150		1.78	2.00	-10.8	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.450		2.59	2.00	29.4	30.0
Acetaldehyde	Ave	0.3349	0.3105		9.27	10.0	-7.3	50.0
Vinyl chloride	Ave	1.364	1.446		2.12	2.00	6.0	30.0
1,3-Butadiene	Ave	0.9428	0.9102		1.93	2.00	-3.5	30.0
Butane	Ave	1.913	1.741		1.82	2.00	-8.9	30.0
Bromomethane	Ave	1.473	1.715		2.33	2.00	16.5	30.0
Chloroethane	Ave	0.6922	0.7430		2.15	2.00	7.4	30.0
Ethanol	Ave	0.4001	0.3408		8.52	10.0	-14.8	50.0
Vinyl bromide	Ave	1.331	1.746		2.62	2.00	31.2*	30.0
2-Methylbutane	Ave	1.401	1.318		1.88	2.00	-5.9	30.0
Trichlorofluoromethane	Ave	4.438	5.761		2.60	2.00	29.8	30.0
Acrolein	Ave	0.4230	0.4445		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3806	0.3860		2.03	2.00	1.4	30.0
Acetone	Ave	0.6059	0.5527		1.82	2.00	-8.8	30.0
Pentane	Ave	0.2626	0.2920		2.22	2.00	11.2	30.0
Isopropyl alcohol	Ave	1.560	1.396		1.79	2.00	-10.5	30.0
Ethyl ether	Ave	1.018	0.8243		1.62	2.00	-19.0	30.0
1,1-Dichloroethene	Ave	1.190	1.204		2.02	2.00	1.2	30.0
tert-Butyl alcohol	Ave	2.208	1.774		1.61	2.00	-19.6	30.0
Acrylonitrile	Ave	0.7008	0.5693		1.62	2.00	-18.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.011		2.19	2.00	9.6	30.0
Methylene Chloride	Ave	1.143	1.099		1.92	2.00	-3.9	30.0
3-Chloropropene	Ave	1.349	1.019		1.51	2.00	-24.5	30.0
Carbon disulfide	Ave	4.140	3.782		1.83	2.00	-8.6	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.407		1.93	2.00	-3.5	30.0
2-Methylpentane	Ave	2.634	1.630		1.24	2.00	-38.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.618		1.99	2.00	-0.3	30.0
1,1-Dichloroethane	Ave	2.467	2.129		1.73	2.00	-13.7	30.0
Vinyl acetate	Ave	2.433	1.738		1.43	2.00	-28.6	30.0
2-Butanone (MEK)	Ave	0.6547	0.4803		1.47	2.00	-26.6	30.0
Hexane	Ave	1.064	0.7722		1.45	2.00	-27.4	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.238		1.82	2.00	-9.0	30.0
Ethyl acetate	Ave	2.130	1.422		1.34	2.00	-33.2*	30.0
Chloroform	Ave	3.427	3.348		1.95	2.00	-2.3	30.0
Tetrahydrofuran	Ave	1.026	0.6287		1.23	2.00	-38.7*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.097		2.11	2.00	5.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4730		1.93	2.00	-3.5	30.0
1-Butanol	Ave	0.0746	0.0367		0.985	2.00	-50.8*	30.0
Cyclohexane	Ave	0.1509	0.1226		1.62	2.00	-18.8	30.0
Benzene	Ave	0.8050	0.7264		1.80	2.00	-9.8	30.0
Carbon tetrachloride	Ave	0.7733	0.9119		2.36	2.00	17.9	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1531		1.63	2.00	-18.3	50.0
Thiophene	Ave	0.5002	0.4456		1.78	2.00	-10.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.8797		1.42	2.00	-29.2	30.0
Heptane	Ave	0.3047	0.2492		1.64	2.00	-18.2	30.0
1,2-Dichloropropane	Ave	0.2586	0.2130		1.65	2.00	-17.6	30.0
Trichloroethene	Ave	0.3975	0.3801		1.91	2.00	-4.4	30.0
Dibromomethane	Ave	0.3799	0.3712		1.95	2.00	-2.3	30.0
Bromodichloromethane	Ave	0.7571	0.7521		1.99	2.00	-0.7	30.0
1,4-Dioxane	Ave	0.1068	0.0798		1.49	2.00	-25.3	30.0
Methyl methacrylate	Ave	0.3033	0.2134		1.41	2.00	-29.6	30.0
Methylcyclohexane	Ave	0.5694	0.4694		1.65	2.00	-17.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.2728		1.15	2.00	-42.5*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4277		1.87	2.00	-6.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5023		1.86	2.00	-7.0	30.0
Toluene	Ave	1.072	1.046		1.95	2.00	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2953		1.87	2.00	-6.4	30.0
2-Methylthiophene	Ave	0.9307	0.9342		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9569		2.04	2.00	2.1	50.0
2-Hexanone	Ave	0.2529	0.1779		1.41	2.00	-29.7	30.0
Octane	Ave	0.3821	0.3585		1.88	2.00	-6.2	30.0
Dibromochloromethane	Ave	0.7144	0.8349		2.34	2.00	16.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5798		2.06	2.00	3.0	30.0
Tetrachloroethene	Ave	0.4564	0.4642		2.03	2.00	1.7	30.0
Chlorobenzene	Ave	0.8545	0.9287		2.17	2.00	8.7	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5558		1.35	2.00	-32.3	50.0
Ethylbenzene	Ave	1.374	1.424		2.07	2.00	3.6	30.0
2-Ethylthiophene	Ave	1.101	1.215		2.21	2.00	10.4	50.0
m-Xylene & p-Xylene	Ave	1.080	1.217		4.51	4.00	12.7	30.0
Nonane	Ave	0.5994	0.4769		1.59	2.00	-20.4	30.0
Bromoform	Ave	0.6422	0.8848		2.76	2.00	37.8*	30.0
Styrene	Ave	0.7475	0.8625		2.31	2.00	15.4	30.0
o-Xylene	Ave	1.168	1.254		2.15	2.00	7.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7002		2.04	2.00	1.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2871		2.29	2.00	14.7	30.0
Isopropylbenzene	Ave	1.542	1.765		2.29	2.00	14.4	30.0
Propylbenzene	Ave	0.4031	0.4486		2.23	2.00	11.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15

Instrument ID: ME Calib Start Date: 01/28/2014 14:11

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/28/2014 20:25

Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4199		2.19	2.00	9.3	30.0
4-Ethyltoluene	Ave	1.477	1.707		2.31	2.00	15.5	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7792		2.33	2.00	16.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6896		2.50	2.00	24.8	30.0
Decane	Ave	0.6339	0.6033		1.90	2.00	-4.8	30.0
tert-Butylbenzene	Ave	1.348	1.585		2.35	2.00	17.6	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.532		2.50	2.00	24.8	30.0
sec-Butylbenzene	Ave	1.656	1.990		2.40	2.00	20.1	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.997		2.50	2.00	24.9	30.0
Benzyl chloride	Ave	1.010	1.209		2.40	2.00	19.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9690		2.47	2.00	23.4	30.0
4-Isopropyltoluene	Ave	1.399	1.755		2.51	2.00	25.4	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.275		2.45	2.00	22.4	50.0
Butylcyclohexane	Ave	0.9625	0.9946		2.07	2.00	3.3	50.0
Indane	Ave	1.073	1.285		2.40	2.00	19.8	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9595		2.52	2.00	26.2	30.0
Indene	Ave	1.019	1.279		2.51	2.00	25.6	50.0
Butylbenzene	Ave	1.239	1.562		2.52	2.00	26.0	30.0
Undecane	Ave	0.5595	0.6150		2.20	2.00	9.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.572		2.62	2.00	30.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.616		2.72	2.00	35.8	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.020		2.62	2.00	31.2	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.269		2.56	2.00	27.8	50.0
Dodecane	Ave	0.4200	0.3135		1.49	2.00	-25.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6318		2.49	2.00	24.4	30.0
Naphthalene	Ave	0.8890	1.095		2.46	2.00	23.2	30.0
Benzo(b)thiophene	Ave	0.6431	0.7023		2.18	2.00	9.2	50.0
Hexachlorobutadiene	Ave	0.6633	0.9739		2.94	2.00	46.8*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4458		2.35	2.00	17.6	30.0
2-Methylnaphthalene	Ave	0.0420	0.0519		15.5	12.5	23.6	50.0
1-Methylnaphthalene	Ave	0.0366	0.0465		15.9	12.5	27.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9104		4.16	4.00	3.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1060-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.28		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		104	70 - 130
1,2,4-Trichlorobenzene	2.00	2.21		ppb v/v		110	60 - 140
1,2,4-Trimethylbenzene	2.00	2.40		ppb v/v		120	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	2.00	2.65		ppb v/v		133	60 - 140
1,2-Dichlorobenzene	2.00	2.33		ppb v/v		117	70 - 130
1,2-Dichloroethane	2.00	2.31		ppb v/v		115	70 - 130
1,2-Dichloropropane	2.00	1.97		ppb v/v		99	70 - 130
1,3,5-Trimethylbenzene	2.00	2.24		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.43		ppb v/v		122	60 - 140
1,3-Dichlorobenzene	2.00	2.33		ppb v/v		116	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	1.83		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	1.85		ppb v/v		92	70 - 130
2,3-Dimethylpentane	2.00	1.95		ppb v/v		97	20 - 180
2-Butanone (MEK)	2.00	1.63		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.77		ppb v/v		89	60 - 140
2-Methylbutane	2.00	2.40		ppb v/v		120	70 - 130
2-Methylpentane	2.00	1.79		ppb v/v		90	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.81		ppb v/v		90	60 - 140
Acetone	2.00	1.98	J	ppb v/v		99	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Bromodichloromethane	2.00	2.31		ppb v/v		116	70 - 130
Bromoform	2.00	2.57		ppb v/v		129	60 - 140
Bromomethane	2.00	2.64	*	ppb v/v		132	70 - 130
Carbon disulfide	2.00	2.07		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		121	70 - 130
Chlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
Chloroethane	2.00	2.65	*	ppb v/v		133	70 - 130
Chloroform	2.00	2.25		ppb v/v		112	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	2.19		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.99		ppb v/v		100	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.53		ppb v/v		126	60 - 140
Ethanol	10.0	10.8		ppb v/v		108	20 - 180
Ethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
Heptane	2.00	2.03		ppb v/v		101	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.42		ppb v/v		121	60 - 140
Hexane	2.00	1.87		ppb v/v		93	70 - 130
Indane	2.00	2.34		ppb v/v		117	20 - 180
Indene	2.00	2.44		ppb v/v		122	20 - 180
Isopropyl alcohol	2.00	2.28		ppb v/v		114	60 - 140
Methyl tert-butyl ether	2.00	2.23		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.09		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.73		ppb v/v		118	70 - 130
Naphthalene	2.00	2.51		ppb v/v		125	40 - 140
o-Xylene	2.00	2.27		ppb v/v		114	70 - 130
Propene	2.00	1.83		ppb v/v		92	60 - 140
Styrene	2.00	2.32		ppb v/v		116	70 - 130
Tetrachloroethene	2.00	2.11		ppb v/v		106	70 - 130
Tetrahydrofuran	2.00	1.65		ppb v/v		82	60 - 140
Thiophene	2.00	2.04		ppb v/v		102	20 - 180
Toluene	2.00	2.12		ppb v/v		106	70 - 130
trans-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Trichlorofluoromethane	2.00	2.69		ppb v/v		135	60 - 140
Vinyl chloride	2.00	2.52		ppb v/v		126	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	15.1		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	8.23		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	8.21		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	15	16.4		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,2-Dibromoethane (EDB)	15	16.8		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	18.5		ug/m3		133	60 - 140
1,2-Dichlorobenzene	12	14.0		ug/m3		117	70 - 130
1,2-Dichloroethane	8.1	9.34		ug/m3		115	70 - 130
1,2-Dichloropropane	9.2	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Butadiene	4.4	5.38		ug/m3		122	60 - 140
1,3-Dichlorobenzene	12	14.0		ug/m3		116	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	6.59		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	8.62		ug/m3		92	70 - 130
2,3-Dimethylpentane	8.2	7.99		ug/m3		97	20 - 180
2-Butanone (MEK)	5.9	4.81		ug/m3		82	60 - 140
2-Hexanone	8.2	7.27		ug/m3		89	60 - 140
2-Methylbutane	5.9	7.09		ug/m3		120	70 - 130
2-Methylpentane	7.0	6.32		ug/m3		90	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-967/1002
Matrix: Air
Analysis Batch: 967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.1		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.40		ug/m3		90	60 - 140
Acetone	4.8	4.71	J	ug/m3		99	60 - 140
Benzene	6.4	6.64		ug/m3		104	70 - 130
Benzyl chloride	10	13.2		ug/m3		127	70 - 130
Bromodichloromethane	13	15.5		ug/m3		116	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	10.3	*	ug/m3		132	70 - 130
Carbon disulfide	6.2	6.44		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.93		ug/m3		108	70 - 130
Chloroethane	5.3	7.00	*	ug/m3		133	70 - 130
Chloroform	9.8	11.0		ug/m3		112	70 - 130
Chloromethane	4.1	4.55		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	9.94		ug/m3		110	70 - 130
Cyclohexane	6.9	6.86		ug/m3		100	70 - 130
Dibromochloromethane	17	20.4		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	12.5		ug/m3		126	60 - 140
Ethanol	19	20.3		ug/m3		108	20 - 180
Ethylbenzene	8.7	9.75		ug/m3		112	70 - 130
Heptane	8.2	8.31		ug/m3		101	70 - 130
Hexachlorobutadiene	21	25.8		ug/m3		121	60 - 140
Hexane	7.0	6.57		ug/m3		93	70 - 130
Indane	9.7	11.3		ug/m3		117	20 - 180
Indene	9.5	11.6		ug/m3		122	20 - 180
Isopropyl alcohol	4.9	5.61		ug/m3		114	60 - 140
Methyl tert-butyl ether	7.2	8.02		ug/m3		111	60 - 140
Methylene Chloride	6.9	7.27		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.5		ug/m3		118	70 - 130
Naphthalene	10	13.2		ug/m3		125	40 - 140
o-Xylene	8.7	9.87		ug/m3		114	70 - 130
Propene	3.4	3.15		ug/m3		92	60 - 140
Styrene	8.5	9.87		ug/m3		116	70 - 130
Tetrachloroethene	14	14.3		ug/m3		106	70 - 130
Tetrahydrofuran	5.9	4.86		ug/m3		82	60 - 140
Thiophene	6.9	7.03		ug/m3		102	20 - 180
Toluene	7.5	8.00		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	7.9	8.13		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	10.7		ug/m3		99	70 - 130
Trichlorofluoromethane	11	15.1		ug/m3		135	60 - 140
Vinyl chloride	5.1	6.45		ug/m3		126	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.07		ppb v/v		103	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.91		ppb v/v		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	1.80		ppb v/v		90	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1-Dichloroethene	2.00	2.22		ppb v/v		111	70 - 130
1,2,4-Trichlorobenzene	2.00	2.68		ppb v/v		134	60 - 140
1,2,4-Trimethylbenzene	2.00	2.38		ppb v/v		119	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.98		ppb v/v		99	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.53		ppb v/v		127	60 - 140
1,2-Dichlorobenzene	2.00	2.49		ppb v/v		125	70 - 130
1,2-Dichloroethane	2.00	1.87		ppb v/v		93	70 - 130
1,2-Dichloropropane	2.00	1.62		ppb v/v		81	70 - 130
1,3,5-Trimethylbenzene	2.00	2.25		ppb v/v		112	70 - 130
1,3-Butadiene	2.00	2.00		ppb v/v		100	60 - 140
1,3-Dichlorobenzene	2.00	2.44		ppb v/v		122	70 - 130
1,4-Dichlorobenzene	2.00	2.41		ppb v/v		120	70 - 130
1,4-Dioxane	2.00	2.03		ppb v/v		102	60 - 140
2,2,4-Trimethylpentane	2.00	1.55		ppb v/v		78	70 - 130
2,3-Dimethylpentane	2.00	1.76		ppb v/v		88	20 - 180
2-Butanone (MEK)	2.00	1.40		ppb v/v		70	60 - 140
2-Hexanone	2.00	1.59		ppb v/v		80	60 - 140
2-Methylbutane	2.00	1.93		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.32		ppb v/v		66	20 - 180
4-Ethyltoluene	2.00	2.17		ppb v/v		109	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.32		ppb v/v		66	60 - 140
Acetone	2.00	1.78	J	ppb v/v		89	60 - 140
Benzene	2.00	1.81		ppb v/v		91	70 - 130
Benzyl chloride	2.00	2.27		ppb v/v		113	70 - 130
Bromodichloromethane	2.00	2.02		ppb v/v		101	70 - 130
Bromoform	2.00	2.69		ppb v/v		135	60 - 140
Bromomethane	2.00	2.43		ppb v/v		122	70 - 130
Carbon disulfide	2.00	1.87		ppb v/v		94	70 - 130
Carbon tetrachloride	2.00	2.48		ppb v/v		124	70 - 130
Chlorobenzene	2.00	2.14		ppb v/v		107	70 - 130
Chloroethane	2.00	2.20		ppb v/v		110	70 - 130
Chloroform	2.00	1.89		ppb v/v		95	70 - 130
Chloromethane	2.00	1.91		ppb v/v		95	60 - 140
cis-1,2-Dichloroethene	2.00	1.94		ppb v/v		97	70 - 130
cis-1,3-Dichloropropene	2.00	1.78		ppb v/v		89	70 - 130
Cyclohexane	2.00	1.77		ppb v/v		88	70 - 130
Dibromochloromethane	2.00	2.38		ppb v/v		119	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	9.76		ppb v/v		98	20 - 180
Ethylbenzene	2.00	1.94		ppb v/v		97	70 - 130
Heptane	2.00	1.78		ppb v/v		89	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.95	*	ppb v/v		148	60 - 140
Hexane	2.00	1.51		ppb v/v		75	70 - 130
Indane	2.00	2.32		ppb v/v		116	20 - 180
Indene	2.00	2.46		ppb v/v		123	20 - 180
Isopropyl alcohol	2.00	2.07		ppb v/v		103	60 - 140
Methyl tert-butyl ether	2.00	1.76		ppb v/v		88	60 - 140
Methylene Chloride	2.00	1.98		ppb v/v		99	70 - 130
m-Xylene & p-Xylene	4.00	4.16		ppb v/v		104	70 - 130
Naphthalene	2.00	2.83	*	ppb v/v		141	40 - 140
o-Xylene	2.00	2.02		ppb v/v		101	70 - 130
Propene	2.00	1.42		ppb v/v		71	60 - 140
Styrene	2.00	2.13		ppb v/v		106	70 - 130
Tetrachloroethene	2.00	2.24		ppb v/v		112	70 - 130
Tetrahydrofuran	2.00	1.13	*	ppb v/v		57	60 - 140
Thiophene	2.00	1.84		ppb v/v		92	20 - 180
Toluene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,2-Dichloroethene	2.00	2.04		ppb v/v		102	70 - 130
trans-1,3-Dichloropropene	2.00	1.73		ppb v/v		86	70 - 130
Trichloroethene	2.00	2.11		ppb v/v		106	70 - 130
Trichlorofluoromethane	2.00	2.57		ppb v/v		128	60 - 140
Vinyl chloride	2.00	2.18		ppb v/v		109	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.3		ug/m3		103	70 - 130
1,1,2,2-Tetrachloroethane	14	13.1		ug/m3		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.0		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	9.84		ug/m3		90	70 - 130
1,1-Dichloroethane	8.1	7.02		ug/m3		87	70 - 130
1,1-Dichloroethene	7.9	8.80		ug/m3		111	70 - 130
1,2,4-Trichlorobenzene	15	19.9		ug/m3		134	60 - 140
1,2,4-Trimethylbenzene	9.8	11.7		ug/m3		119	70 - 130
1,2-Dibromoethane (EDB)	15	15.2		ug/m3		99	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	17.7		ug/m3		127	60 - 140
1,2-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,2-Dichloroethane	8.1	7.56		ug/m3		93	70 - 130
1,2-Dichloropropane	9.2	7.48		ug/m3		81	70 - 130
1,3,5-Trimethylbenzene	9.8	11.1		ug/m3		112	70 - 130
1,3-Butadiene	4.4	4.42		ug/m3		100	60 - 140
1,3-Dichlorobenzene	12	14.7		ug/m3		122	70 - 130
1,4-Dichlorobenzene	12	14.5		ug/m3		120	70 - 130
1,4-Dioxane	7.2	7.32		ug/m3		102	60 - 140
2,2,4-Trimethylpentane	9.3	7.25		ug/m3		78	70 - 130
2,3-Dimethylpentane	8.2	7.20		ug/m3		88	20 - 180
2-Butanone (MEK)	5.9	4.14		ug/m3		70	60 - 140
2-Hexanone	8.2	6.52		ug/m3		80	60 - 140
2-Methylbutane	5.9	5.68		ug/m3		96	70 - 130
2-Methylpentane	7.0	4.65		ug/m3		66	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-977/1002
Matrix: Air
Analysis Batch: 977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	10.7		ug/m3		109	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	5.42		ug/m3		66	60 - 140
Acetone	4.8	4.22	J	ug/m3		89	60 - 140
Benzene	6.4	5.78		ug/m3		91	70 - 130
Benzyl chloride	10	11.8		ug/m3		113	70 - 130
Bromodichloromethane	13	13.5		ug/m3		101	70 - 130
Bromoform	21	27.8		ug/m3		135	60 - 140
Bromomethane	7.8	9.44		ug/m3		122	70 - 130
Carbon disulfide	6.2	5.83		ug/m3		94	70 - 130
Carbon tetrachloride	13	15.6		ug/m3		124	70 - 130
Chlorobenzene	9.2	9.86		ug/m3		107	70 - 130
Chloroethane	5.3	5.81		ug/m3		110	70 - 130
Chloroform	9.8	9.25		ug/m3		95	70 - 130
Chloromethane	4.1	3.94		ug/m3		95	60 - 140
cis-1,2-Dichloroethene	7.9	7.69		ug/m3		97	70 - 130
cis-1,3-Dichloropropene	9.1	8.10		ug/m3		89	70 - 130
Cyclohexane	6.9	6.08		ug/m3		88	70 - 130
Dibromochloromethane	17	20.3		ug/m3		119	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	18.4		ug/m3		98	20 - 180
Ethylbenzene	8.7	8.44		ug/m3		97	70 - 130
Heptane	8.2	7.31		ug/m3		89	70 - 130
Hexachlorobutadiene	21	31.5	*	ug/m3		148	60 - 140
Hexane	7.0	5.31		ug/m3		75	70 - 130
Indane	9.7	11.2		ug/m3		116	20 - 180
Indene	9.5	11.7		ug/m3		123	20 - 180
Isopropyl alcohol	4.9	5.08		ug/m3		103	60 - 140
Methyl tert-butyl ether	7.2	6.36		ug/m3		88	60 - 140
Methylene Chloride	6.9	6.88		ug/m3		99	70 - 130
m-Xylene & p-Xylene	17	18.1		ug/m3		104	70 - 130
Naphthalene	10	14.8	*	ug/m3		141	40 - 140
o-Xylene	8.7	8.77		ug/m3		101	70 - 130
Propene	3.4	2.45		ug/m3		71	60 - 140
Styrene	8.5	9.06		ug/m3		106	70 - 130
Tetrachloroethene	14	15.2		ug/m3		112	70 - 130
Tetrahydrofuran	5.9	3.34	*	ug/m3		57	60 - 140
Thiophene	6.9	6.34		ug/m3		92	20 - 180
Toluene	7.5	7.08		ug/m3		94	70 - 130
trans-1,2-Dichloroethene	7.9	8.09		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	9.1	7.85		ug/m3		86	70 - 130
Trichloroethene	11	11.4		ug/m3		106	70 - 130
Trichlorofluoromethane	11	14.4		ug/m3		128	60 - 140
Vinyl chloride	5.1	5.57		ug/m3		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*

Used for m&p Xylene and Ethanol only.

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1060-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.11		ppb v/v		105	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19		ppb v/v		110	70 - 130
1,1,2-Trichloroethane	2.00	1.87		ppb v/v		94	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		86	70 - 130
1,1-Dichloroethene	2.00	2.02		ppb v/v		101	70 - 130
1,2,4-Trichlorobenzene	2.00	2.49		ppb v/v		124	60 - 140
1,2,4-Trimethylbenzene	2.00	2.50		ppb v/v		125	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59		ppb v/v		129	60 - 140
1,2-Dichlorobenzene	2.00	2.52		ppb v/v		126	70 - 130
1,2-Dichloroethane	2.00	1.93		ppb v/v		96	70 - 130
1,2-Dichloropropane	2.00	1.65		ppb v/v		82	70 - 130
1,3,5-Trimethylbenzene	2.00	2.33		ppb v/v		116	70 - 130
1,3-Butadiene	2.00	1.93		ppb v/v		97	60 - 140
1,3-Dichlorobenzene	2.00	2.50		ppb v/v		125	70 - 130
1,4-Dichlorobenzene	2.00	2.47		ppb v/v		123	70 - 130
1,4-Dioxane	2.00	1.49		ppb v/v		75	60 - 140
2,2,4-Trimethylpentane	2.00	1.42		ppb v/v		71	70 - 130
2,3-Dimethylpentane	2.00	1.63		ppb v/v		82	20 - 180
2-Butanone (MEK)	2.00	1.47		ppb v/v		73	60 - 140
2-Hexanone	2.00	1.41		ppb v/v		70	60 - 140
2-Methylbutane	2.00	1.88		ppb v/v		94	70 - 130
2-Methylpentane	2.00	1.24		ppb v/v		62	20 - 180
4-Ethyltoluene	2.00	2.31		ppb v/v		116	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.15	*	ppb v/v		58	60 - 140
Acetone	2.00	1.82	J	ppb v/v		91	60 - 140
Benzene	2.00	1.80		ppb v/v		90	70 - 130
Benzyl chloride	2.00	2.40		ppb v/v		120	70 - 130
Bromodichloromethane	2.00	1.99		ppb v/v		99	70 - 130
Bromoform	2.00	2.76		ppb v/v		138	60 - 140
Bromomethane	2.00	2.33		ppb v/v		116	70 - 130
Carbon disulfide	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.36		ppb v/v		118	70 - 130
Chlorobenzene	2.00	2.17		ppb v/v		109	70 - 130
Chloroethane	2.00	2.15		ppb v/v		107	70 - 130
Chloroform	2.00	1.95		ppb v/v		98	70 - 130
Chloromethane	2.00	1.78		ppb v/v		89	60 - 140
cis-1,2-Dichloroethene	2.00	1.82		ppb v/v		91	70 - 130
cis-1,3-Dichloropropene	2.00	1.87		ppb v/v		94	70 - 130
Cyclohexane	2.00	1.62		ppb v/v		81	70 - 130
Dibromochloromethane	2.00	2.34		ppb v/v		117	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	8.52		ppb v/v		85	20 - 180
Ethylbenzene	2.00	2.07		ppb v/v		104	70 - 130
Heptane	2.00	1.64		ppb v/v		82	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	2.94	*	ppb v/v		147	60 - 140
Hexane	2.00	1.45		ppb v/v		73	70 - 130
Indane	2.00	2.40		ppb v/v		120	20 - 180
Indene	2.00	2.51		ppb v/v		126	20 - 180
Isopropyl alcohol	2.00	1.79		ppb v/v		90	60 - 140
Methyl tert-butyl ether	2.00	1.99		ppb v/v		100	60 - 140
Methylene Chloride	2.00	1.92		ppb v/v		96	70 - 130
m-Xylene & p-Xylene	4.00	4.51		ppb v/v		113	70 - 130
Naphthalene	2.00	2.46		ppb v/v		123	40 - 140
o-Xylene	2.00	2.15		ppb v/v		107	70 - 130
Propene	2.00	1.34		ppb v/v		67	60 - 140
Styrene	2.00	2.31		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.03		ppb v/v		102	70 - 130
Tetrahydrofuran	2.00	1.23		ppb v/v		61	60 - 140
Thiophene	2.00	1.78		ppb v/v		89	20 - 180
Toluene	2.00	1.95		ppb v/v		98	70 - 130
trans-1,2-Dichloroethene	2.00	1.93		ppb v/v		96	70 - 130
trans-1,3-Dichloropropene	2.00	1.86		ppb v/v		93	70 - 130
Trichloroethene	2.00	1.91		ppb v/v		96	70 - 130
Trichlorofluoromethane	2.00	2.60		ppb v/v		130	60 - 140
Vinyl chloride	2.00	2.12		ppb v/v		106	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.5		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	14	14.0		ug/m3		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	16.8		ug/m3		110	70 - 130
1,1,2-Trichloroethane	11	10.2		ug/m3		94	70 - 130
1,1-Dichloroethane	8.1	6.98		ug/m3		86	70 - 130
1,1-Dichloroethene	7.9	8.02		ug/m3		101	70 - 130
1,2,4-Trichlorobenzene	15	18.5		ug/m3		124	60 - 140
1,2,4-Trimethylbenzene	9.8	12.3		ug/m3		125	70 - 130
1,2-Dibromoethane (EDB)	15	15.8		ug/m3		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	18.1		ug/m3		129	60 - 140
1,2-Dichlorobenzene	12	15.2		ug/m3		126	70 - 130
1,2-Dichloroethane	8.1	7.81		ug/m3		96	70 - 130
1,2-Dichloropropane	9.2	7.61		ug/m3		82	70 - 130
1,3,5-Trimethylbenzene	9.8	11.4		ug/m3		116	70 - 130
1,3-Butadiene	4.4	4.27		ug/m3		97	60 - 140
1,3-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,4-Dichlorobenzene	12	14.8		ug/m3		123	70 - 130
1,4-Dioxane	7.2	5.38		ug/m3		75	60 - 140
2,2,4-Trimethylpentane	9.3	6.61		ug/m3		71	70 - 130
2,3-Dimethylpentane	8.2	6.69		ug/m3		82	20 - 180
2-Butanone (MEK)	5.9	4.33		ug/m3		73	60 - 140
2-Hexanone	8.2	5.76		ug/m3		70	60 - 140
2-Methylbutane	5.9	5.55		ug/m3		94	70 - 130
2-Methylpentane	7.0	4.36		ug/m3		62	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002
Matrix: Air
Analysis Batch: 990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.4		ug/m3		116	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	4.71	*	ug/m3		58	60 - 140
Acetone	4.8	4.33	J	ug/m3		91	60 - 140
Benzene	6.4	5.77		ug/m3		90	70 - 130
Benzyl chloride	10	12.4		ug/m3		120	70 - 130
Bromodichloromethane	13	13.3		ug/m3		99	70 - 130
Bromoform	21	28.5		ug/m3		138	60 - 140
Bromomethane	7.8	9.04		ug/m3		116	70 - 130
Carbon disulfide	6.2	5.69		ug/m3		91	70 - 130
Carbon tetrachloride	13	14.8		ug/m3		118	70 - 130
Chlorobenzene	9.2	10.0		ug/m3		109	70 - 130
Chloroethane	5.3	5.67		ug/m3		107	70 - 130
Chloroform	9.8	9.54		ug/m3		98	70 - 130
Chloromethane	4.1	3.68		ug/m3		89	60 - 140
cis-1,2-Dichloroethene	7.9	7.21		ug/m3		91	70 - 130
cis-1,3-Dichloropropene	9.1	8.51		ug/m3		94	70 - 130
Cyclohexane	6.9	5.59		ug/m3		81	70 - 130
Dibromochloromethane	17	19.9		ug/m3		117	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	16.0		ug/m3		85	20 - 180
Ethylbenzene	8.7	9.00		ug/m3		104	70 - 130
Heptane	8.2	6.70		ug/m3		82	70 - 130
Hexachlorobutadiene	21	31.3	*	ug/m3		147	60 - 140
Hexane	7.0	5.12		ug/m3		73	70 - 130
Indane	9.7	11.6		ug/m3		120	20 - 180
Indene	9.5	11.9		ug/m3		126	20 - 180
Isopropyl alcohol	4.9	4.40		ug/m3		90	60 - 140
Methyl tert-butyl ether	7.2	7.19		ug/m3		100	60 - 140
Methylene Chloride	6.9	6.68		ug/m3		96	70 - 130
m-Xylene & p-Xylene	17	19.6		ug/m3		113	70 - 130
Naphthalene	10	12.9		ug/m3		123	40 - 140
o-Xylene	8.7	9.32		ug/m3		107	70 - 130
Propene	3.4	2.30		ug/m3		67	60 - 140
Styrene	8.5	9.83		ug/m3		115	70 - 130
Tetrachloroethene	14	13.8		ug/m3		102	70 - 130
Tetrahydrofuran	5.9	3.61		ug/m3		61	60 - 140
Thiophene	6.9	6.13		ug/m3		89	20 - 180
Toluene	7.5	7.36		ug/m3		98	70 - 130
trans-1,2-Dichloroethene	7.9	7.65		ug/m3		96	70 - 130
trans-1,3-Dichloropropene	9.1	8.44		ug/m3		93	70 - 130
Trichloroethene	11	10.3		ug/m3		96	70 - 130
Trichlorofluoromethane	11	14.6		ug/m3		130	60 - 140
Vinyl chloride	5.1	5.42		ug/m3		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1063-1	IA4-E14	Air	03/13/14 17:12	03/17/14 11:15
140-1063-2	IA5-E14	Air	03/13/14 16:40	03/17/14 11:15
140-1063-3	IA6-E14	Air	03/13/14 16:45	03/17/14 11:15
140-1063-4	IA7-E14	Air	03/13/14 15:52	03/17/14 11:15
140-1063-5	AMB-2	Air	03/13/14 16:48	03/17/14 11:15
140-1063-6	AMB-4	Air	03/13/14 16:49	03/17/14 11:15
140-1063-8	PCV-IA2-B7	Air	03/12/14 16:00	03/17/14 11:15
140-1063-9	PCV-IA3-B7	Air	03/12/14 16:10	03/17/14 11:15
140-1063-10	PCV-IA1-B11	Air	03/12/14 16:34	03/17/14 11:15
140-1063-11	PCV-IA2-B11	Air	03/12/14 16:32	03/17/14 11:15
140-1063-12	PCV-IA3-B11	Air	03/12/14 16:30	03/17/14 11:15
140-1063-13	IA1-E14	Air	03/13/14 16:04	03/17/14 11:15
140-1063-14	IA2-E14	Air	03/13/14 16:53	03/17/14 11:15
140-1063-15	IA3-E14	Air	03/13/14 16:52	03/17/14 11:15
140-1063-16	PCV-IA1-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-17	PCV-IA2-B5	Air	03/12/14 15:56	03/17/14 11:15
140-1063-18	PCV-IAPC-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-19	AMB-1	Air	03/13/14 16:25	03/17/14 11:15
140-1063-20	AMB-3	Air	03/13/14 17:06	03/17/14 11:15
140-1063-21	IA1-E19	Air	03/13/14 16:18	03/17/14 11:15
140-1063-22	IA2-E19	Air	03/13/14 17:05	03/17/14 11:15
140-1063-23	IA1-E17	Air	03/13/14 15:17	03/17/14 11:15
140-1063-24	IA1FD-E17	Air	03/13/14 16:45	03/17/14 11:15
140-1063-25	IA2-E17	Air	03/13/14 16:10	03/17/14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer	Sampled By: Sara Meissner	1 of 6 COCs
Company: AECOM		Phone: 516-581-7313		
Address: 125 Broad Street		Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004		TAL Contact: Jamie McKinney		
Phone: 212-377-8400				
FAX: 212-377-8410		Analysis Turnaround Time		
Project Name: Stuy Town IA		Standard (Specify) X		
Site/location: Stuy Town, NYC		Rush (Specify)		
PO #				

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MegList	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA4 - E14	3/13/14	1020	1712	-30	-8	10062	09683	X							X				71°
IA5 - E14	3/13/14	0858	1640	-30	-5	10297	10010	X							X				71°
IA6 - E14	3/13/14	0856	1645	-30	-4	10359	10188	X							X				71°
IA7 - E14	3/13/14	0850	1552	-30	-4	10792	09513	X							X				71°
AMB - 2	3/13/14	0910	1648	-30	-5	10666	09514	X								X			25°
AMB - 4	3/13/14	0915	1649	-30	-5	09914	10401	X								X			25°

Sampled by :

Sara Meissner

Temperature (Fahrenheit)	Interior	Ambient
Start	71° F	21° F
Stop	72° F	32° F

Pressure (inches of Hg)	Interior	Ambient
Start		29.48"
Stop		29.74"

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
BKD 3-17-14
SHIPPED FED EX MASTER # 7982 2138 4003

25 CANS / 25 FLOWS / 9 C.C

Sara Meissner

Special Instructions/QC Requirements & Comments:

140-1063 Chain of Custody

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/13/14 1721	Received by:
Relinquished by: R. Sommer	Date/Time: 03-14-14 14:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Kristen Barbour	2 of 6 JE COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Peter Cooper Village IA	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MAP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
* PCV-IA1-B7	3/12/14	0855	1617	-30+	-19	09860	10207	X						X				63° F
PCV-IA2-B7	3/12/14	0848	1600	-30	-6	10784	10187	X						X				65° F
PCV-IA3-B7	3/12/14	0853	1610	-30	-5	09718	10513	X						X				61° F
PCV-IA1-B11	3/12/14	0833	1634	-30	-4	10861	09761	X						X				62° F
PCV-IA2-B11	3/12/14	0833	1632	-28.5	-4	10595	10327	X						X				65° F
PCV-IA3-B11	3/12/14	0836	1630	-30	-10	00660	09509	X						X				66° F

Sampled by :	Temperature (Fahrenheit)	Interior	Ambient
Kristen Barbour	Start		47°F
	Stop		50°F

	Pressure (inches of Hg)	Interior	Ambient
Kristen Barbour	Start		29.57
	Stop		29.21

Special Instructions/QC Requirements & Comments:
Other = temp in sample room.
* Hold sample PCV-IA1-B7 wait for further instruction

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: Jessica Ehlen	Date/Time: 3/13/14 17:22	Received by:
Relinquished by: B. Sommi	Date/Time: 03-14-14 14:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfaffer	Sampled By: Kristen Barbour	3 of 6 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8460			
Project Name: Stuyvesant Town IA	Analysis Turnaround Time		
Site/location: Stuyvesant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + MGP List (on ED)	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Summa Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA1E14	3/13/14	936	1609	-30+	-10	806660	10367	X						X	X				
IA2E14	↓	932	1653	-30	-5	[illegible]	09916	X						X	X				
IA3E14	↓	[illegible]	1652	-28	-10	[illegible]	10885	X						X	X				

Sampled by :	Temperature (Fahrenheit)		
Kristen Barbour		Interior	Ambient
	Start		21°F
	Stop		33°F

Kristen Barbour	Pressure (Inches of Hg)		
		Interior	Ambient
	Start		29.48
	Stop		29.72

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/13/14 17:17	Received by:
Relinquished by: B. Somma	Date/Time: 03-14-14 14:00	Received by: [signature] 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	4 of 6 COCs
Company: AECOM	Phone: 212-377-8706		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip New York, NY	TAL Contact: Jamie McKinney		
Phone: 212-377-8706			
FAX: 212-377-8410			
Project Name: Peter Cooper Village, NY	Analysis Turnaround Time		
Site/location: Peter Cooper Village, NYC	Standard (Specify) X		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + COC Ed. Hg+D List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PCV-IA1-BS	3-12-14	8:36	15:59	-30	-5	10632	10998	X							X				
PCV-IA2-BS	1	8:41	15:56	-29	-4	9700	10718	X							X				
PCV-IAPC-BS	1	8:27	15:59	-30	-5	04947	10119	X							X				

Sampled by :

Jennifer Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		47°F
Stop		50°F

Temperatures @ sample locations
PCV-IA1-BS - 69°F
PCV-IA2-BS - 70°F
PCV-IAPC-BS - 70°F

Jennifer Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		29.57
Stop		29.21

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: 3/13/14 17:22	Received by:
Relinquished by: B. Sonnie	Date/Time: 03-14-14 17:00	Received by: [signature] 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: Jennifer Christoffel	5 of 6 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8410			
Project Name: Stuyvesant Town IA	Analysis Turnaround Time		
Site/location: Stuyvesant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 fCon EA MSP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
AMB-1	3/13/14	0937	1625	-29	-6	10360	10512	X								X			32 °F
AMB-3	3/13/14	0935	1700	-30	-6	09913	09607	X								X			32 °F
IA1-E19	3/13/14	0921	1618	-29	-5	10668	10103	X							X				65 °F
IA2-E19	3/13/14	0925	~~1618~~	-30	~~-8~~	10622	09672	X							X				65 °F
IA1-E17	3/13/14	0848	1517	-30	-5	4205	10120	X							X				73 °F
IA1FD-E17	3/13/14	0940	1645	-30	-8	09555	10276	X							X				73 °F

Sampled by :	Temperature (Fahrenheit)		
J. Christoffel		Interior	Ambient
	Start		21°F
	Stop		30°F

J. Christoffel	Pressure (inches of Hg)		
		Interior	Ambient
	Start		29.48
	Stop		29.74

Special Instructions/QC Requirements & Comments:

Other = Room temp of canisters / outdoor temp of canisters (for ambient)

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: ~~3/13/14~~ 3/12/14 17:22	Received by:
Relinquished by: B. Sonnie	Date/Time: 03-14-14- 11:00	Received by: 3-17-14 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Jennifer Pfeiffer	Sampled By: J. Christoffel	6 of 6 COCs
Company: AECOM	Phone: 516-581-7313		
Address: 125 Broad Street	Site Contact: Jessica Ehlen		
City/State/Zip: New York, NY 10004	TAL Contact: Jamie McKinney		
Phone: 212-377-8400			
FAX: 212-377-8416			
Project Name: Stuyvesant Town IA	Analysis Turnaround Time		
Site/location: Stuyvesant Town, NYC	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed MGP List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA2-E17	3/13/14	0851	1618	-29	-5	10659	10038	X							X				71 °F

Sampled by : J. Christoffel

Temperature (Fahrenheit)	Interior	Ambient
Start		21°F
Stop		32°F

J. Christoffel

Pressure (inches of Hg)	Interior	Ambient
Start		29.48
Stop		29.74

Special Instructions/QC Requirements & Comments:

other = Temp of room canister was sampled in.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: J. Christoffel	Date/Time: 3/17/14 17:12	Received by:
Relinquished by: B. Sonni	Date/Time: 03-14-14 14:00	Received by: [signature] 3-17-14 11:15

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063
List Number: 1
Creator: Dameron, Bryan K

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	CHECKED IN LAB
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
seg	"03/18/14"	0835	140-1063-A-1	x		-8.3	
seg	"03/18/14"	0836	140-1063-A-2	x		-3.6	
seg	"03/18/14"	0837	140-1063-A-3	x		-5.4	
seg	"03/18/14"	0838	140-1063-A-4	x		-2.7	
seg	"03/18/14"	0848	140-1063-A-5	x		-3.0	
seg	"03/18/14"	0849	140-1063-A-6	x		-2.0	
seg	"03/18/14"	0850	140-1063-A-8	x		-5.9	
seg	"03/18/14"	0851	140-1063-A-9	x		-5.8	
seg	"03/18/14"	0852	140-1063-A-10	x		-3.5	
seg	"03/18/14"	0855	140-1063-A-11	x		-4.6	
seg	"03/18/14"	0856	140-1063-A-12	x		-11	
seg	"03/18/14"	0857	140-1063-A-13	x		-6.3	
seg	"03/18/14"	0858	140-1063-A-14	x		-5.8	
seg	"03/18/14"	0859	140-1063-A-15	x		-13.7	
seg	"03/18/14"	0909	140-1063-A-16	x		-4.3	
seg	"03/18/14"	0910	140-1063-A-17	x		-4.2	
seg	"03/18/14"	0911	140-1063-A-18	x		-5.1	
seg	"03/18/14"	0912	140-1063-A-19	x		-5.1	
seg	"03/18/14"	0913	140-1063-A-20	x		-3.7	
seg	"03/18/14"	0916	140-1063-A-21	x		-6.7	
seg	"03/18/14"	0917	140-1063-A-22	x		-4.6	
seg	"03/18/14"	0918	140-1063-A-23	x		-3.7	
seg	"03/18/14"	0919	140-1063-A-24	x		-6.7	
seg	"03/18/14"	0920	140-1063-A-25	x		-6.3	
				x			
				x			

Job Narrative
140-1063-1

Comments
No additional comments.

Receipt
The samples were received on 3/17/2014 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 971 exhibited % difference of > 30% for the following analyte(s) acetone, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Air - GC/MS VOA

Analysis Batch: 971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-2	IA5-E14	Total/NA	Air	TO-15	
140-1063-3	IA6-E14	Total/NA	Air	TO-15	
140-1063-4	IA7-E14	Total/NA	Air	TO-15	
140-1063-5	AMB-2	Total/NA	Air	TO-15	
140-1063-6	AMB-4	Total/NA	Air	TO-15	
140-1063-8	PCV-IA2-B7	Total/NA	Air	TO-15	
140-1063-9	PCV-IA3-B7	Total/NA	Air	TO-15	
140-1063-10	PCV-IA1-B11	Total/NA	Air	TO-15	
140-1063-11	PCV-IA2-B11	Total/NA	Air	TO-15	
140-1063-12	PCV-IA3-B11	Total/NA	Air	TO-15	
140-1063-13	IA1-E14	Total/NA	Air	TO-15	
140-1063-14	IA2-E14	Total/NA	Air	TO-15	
140-1063-15	IA3-E14	Total/NA	Air	TO-15	
140-1063-16	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-17	PCV-IA2-B5	Total/NA	Air	TO-15	
LCS 140-971/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-971/9	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-1	IA4-E14	Total/NA	Air	TO-15	
140-1063-16 - DL	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-19	AMB-1	Total/NA	Air	TO-15	
140-1063-20	AMB-3	Total/NA	Air	TO-15	
140-1063-21	IA1-E19	Total/NA	Air	TO-15	
140-1063-22	IA2-E19	Total/NA	Air	TO-15	
140-1063-23	IA1-E17	Total/NA	Air	TO-15	
140-1063-24	IA1FD-E17	Total/NA	Air	TO-15	
140-1063-25	IA2-E17	Total/NA	Air	TO-15	
LCS 140-976/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-976/1004	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-18	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-17 - DL	PCV-IA2-B5	Total/NA	Air	TO-15	
140-1063-18 - DL	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-990/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-990/1005	Method Blank	Total/NA	Air	TO-15	

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989				13.0		30.0			
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807				6.7		30.0			
Acrolein	+++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266				18.0		30.0			
Acetonitrile	+++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607				12.0		30.0			
Acetone	+++++ 0.5780	+++++ 0.3424	+++++ 0.3699	0.7210 +++++	0.8316	Ave		0.5686				38.0	*	30.0			
Isopropyl alcohol	+++++ 1.4403	+++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014				7.8		30.0			
Pentane	+++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152				7.7		30.0			
Ethyl ether	+++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466				13.0		30.0			
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230				7.9		30.0			
tert-Butyl alcohol	+++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495				12.0		30.0			
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119				6.2		30.0			
Methylene Chloride	+++++ 1.0284	+++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701				14.0		30.0			
3-Chloropropene	+++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131				17.0		30.0			
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629				7.3		30.0			
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526				9.5		30.0			
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866				12.0		40.0			
Methyl tert-butyl ether	+++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415				9.8		30.0			
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108				11.0		30.0			
Vinyl acetate	+++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4096		1.99	2.00	-0.8	30.0
Propene	Ave	1.227	1.166		1.90	2.00	-5.0	30.0
Dichlorodifluoromethane	Ave	3.962	4.068		2.05	2.00	2.7	30.0
Chloromethane	Ave	0.4501	0.4425		1.97	2.00	-1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.180		2.13	2.00	6.4	30.0
Acetaldehyde	Ave	0.3947	0.3107		7.88	10.0	-21.3	50.0
Vinyl chloride	Ave	1.483	1.475		1.99	2.00	-0.5	30.0
1,3-Butadiene	Ave	1.030	1.055		2.05	2.00	2.3	30.0
Butane	Ave	2.110	2.032		1.93	2.00	-3.7	30.0
Bromomethane	Ave	1.508	1.445		1.92	2.00	-4.2	30.0
Chloroethane	Ave	0.6822	0.6592		1.93	2.00	-3.4	30.0
Ethanol	Ave	0.3211	0.3171		9.88	10.0	-1.3	50.0
Vinyl bromide	Ave	1.283	1.347		2.10	2.00	5.0	30.0
2-Methylbutane	Ave	1.699	1.623		1.91	2.00	-4.4	30.0
Acrolein	Ave	0.3266	0.2486		1.52	2.00	-23.9	30.0
Trichlorofluoromethane	Ave	3.481	3.524		2.03	2.00	1.2	30.0
Acetonitrile	Ave	0.3607	0.3322		1.84	2.00	-7.9	30.0
Acetone	Ave	0.5686	0.3576		1.26	2.00	-37.1*	30.0
Isopropyl alcohol	Ave	1.501	1.417		1.89	2.00	-5.6	30.0
Pentane	Ave	0.2152	0.2125		1.98	2.00	-1.3	30.0
Ethyl ether	Ave	1.047	0.9689		1.85	2.00	-7.4	30.0
1,1-Dichloroethene	Ave	1.123	1.284		2.29	2.00	14.3	30.0
tert-Butyl alcohol	Ave	1.849	1.568		1.70	2.00	-15.2	30.0
Acrylonitrile	Ave	0.5945	0.5642		1.90	2.00	-5.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.701		2.24	2.00	12.0	30.0
Methylene Chloride	Ave	1.070	1.131		2.12	2.00	5.7	30.0
3-Chloropropene	Ave	1.113	0.9759		1.75	2.00	-12.3	30.0
Carbon disulfide	Ave	3.763	3.773		2.01	2.00	0.3	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.270		1.88	2.00	-6.1	30.0
2-Methylpentane	Ave	3.087	2.877		1.86	2.00	-6.8	50.0
Methyl tert-butyl ether	Ave	2.042	2.128		2.09	2.00	4.3	30.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	30.0
Vinyl acetate	Ave	1.849	1.805		1.95	2.00	-2.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3716		1.96	2.00	-1.9	30.0
Hexane	Ave	1.075	0.9554		1.78	2.00	-11.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.199		2.08	2.00	3.9	30.0
Ethyl acetate	Ave	1.649	1.701		2.06	2.00	3.2	30.0
Chloroform	Ave	2.331	2.352		2.02	2.00	0.9	30.0
Tetrahydrofuran	Ave	0.9265	0.9302		2.01	2.00	0.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.419		1.99	2.00	-0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3373		2.18	2.00	8.7	30.0
1-Butanol	Ave	0.0874	0.0801		1.83	2.00	-8.4	30.0
Benzene	Ave	0.6863	0.7145		2.08	2.00	4.1	30.0
Cyclohexane	Ave	0.1354	0.1398		2.07	2.00	3.2	30.0
Carbon tetrachloride	Ave	0.5669	0.6030		2.13	2.00	6.4	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1639		2.03	2.00	1.2	50.0
Thiophene	Ave	0.4238	0.4505		2.13	2.00	6.3	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.219		2.08	2.00	4.0	30.0
Heptane	Ave	0.2427	0.2556		2.11	2.00	5.3	30.0
1,2-Dichloropropane	Ave	0.2320	0.2309		1.99	2.00	-0.5	30.0
Trichloroethene	Ave	0.3329	0.3567		2.14	2.00	7.1	30.0
Dibromomethane	Ave	0.3053	0.3130		2.05	2.00	2.5	30.0
Bromodichloromethane	Ave	0.4844	0.5274		2.18	2.00	8.9	30.0
1,4-Dioxane	Ave	0.0831	0.0820		1.97	2.00	-1.4	30.0
Methyl methacrylate	Ave	0.2081	0.2272		2.18	2.00	9.2	30.0
Methylcyclohexane	Ave	0.4620	0.4706		2.04	2.00	1.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4224		2.02	2.00	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3260		1.98	2.00	-0.9	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3518		2.12	2.00	6.1	30.0
Toluene	Ave	0.7420	0.8026		2.16	2.00	8.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2444		2.08	2.00	3.9	30.0
2-Methylthiophene	Ave	0.6668	0.6902		2.07	2.00	3.5	50.0
3-Methylthiophene	Ave	0.6690	0.7078		2.12	2.00	5.8	50.0
2-Hexanone	Ave	0.2430	0.2555		2.10	2.00	5.1	30.0
Octane	Ave	0.2723	0.3022		2.22	2.00	11.0	30.0
Dibromochloromethane	Ave	0.5191	0.5710		2.20	2.00	10.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4195		2.08	2.00	4.1	30.0
Tetrachloroethene	Ave	0.3457	0.3752		2.17	2.00	8.5	30.0
Chlorobenzene	Ave	0.6339	0.6444		2.03	2.00	1.7	30.0
2,3-Dimethylheptane	Ave	0.8171	0.9112		2.23	2.00	11.5	50.0
Ethylbenzene	Ave	0.8196	0.9078		2.22	2.00	10.8	30.0
2-Ethylthiophene	Ave	0.6423	0.6947		2.16	2.00	8.1	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7072		4.28	4.00	6.9	30.0
Nonane	Ave	0.5146	0.5263		2.05	2.00	2.3	30.0
Bromoform	Ave	0.4101	0.4236		2.07	2.00	3.3	30.0
Styrene	Ave	0.4542	0.5203		2.29	2.00	14.5	30.0
o-Xylene	Ave	0.6705	0.7349		2.19	2.00	9.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6044		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1460		2.22	2.00	11.2	30.0
Isopropylbenzene	Ave	0.9553	1.027		2.15	2.00	7.5	30.0
Propylbenzene	Ave	0.2519	0.2776		2.20	2.00	10.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2723		2.07	2.00	3.6	30.0
4-Ethyltoluene	Ave	0.8909	1.000		2.25	2.00	12.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4917		2.20	2.00	9.8	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3674		2.29	2.00	14.5	30.0
Decane	Ave	0.5485	0.5689		2.08	2.00	3.7	30.0
tert-Butylbenzene	Ave	0.8748	0.9355		2.14	2.00	6.9	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.8556		2.20	2.00	10.1	30.0
sec-Butylbenzene	Ave	1.140	1.248		2.19	2.00	9.5	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.4974		1.95	2.00	-2.6	30.0
Benzyl chloride	Ave	0.5802	0.6061		2.09	2.00	4.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4594		1.93	2.00	-3.3	30.0
4-Isopropyltoluene	Ave	0.9141	0.997		2.18	2.00	9.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7128		2.25	2.00	12.6	50.0
Butylcyclohexane	Ave	0.7225	0.7375		2.04	2.00	2.1	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.4908		1.97	2.00	-1.7	30.0
Indane	Ave	0.7098	0.7806		2.20	2.00	10.0	50.0
Butylbenzene	Ave	0.8482	0.8771		2.07	2.00	3.4	30.0
Indene	Ave	0.6202	0.7073		2.28	2.00	14.0	50.0
Undecane	Ave	0.5525	0.5700		2.06	2.00	3.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.8829		2.06	2.00	3.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.9328		2.17	2.00	8.3	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.5726		2.04	2.00	1.9	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7364		2.12	2.00	5.8	50.0
Dodecane	Ave	0.5721	0.5612		1.96	2.00	-1.9	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2136		1.92	2.00	-3.9	30.0
Naphthalene	Ave	0.6294	0.6073		1.93	2.00	-3.5	30.0
Benzo(b)thiophene	Ave	0.4265	0.3982		1.87	2.00	-6.6	50.0
Hexachlorobutadiene	Ave	0.4540	0.3874		1.71	2.00	-14.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2689		1.87	2.00	-6.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0422		7.89	12.5	-36.9	50.0
1-Methylnaphthalene	Ave	0.0690	0.0448		8.12	12.5	-35.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7019		3.97	4.00	-0.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1-Dichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1-Dichloroethene	2.00	2.29		ppb v/v		114	70 - 130
1,2,4-Trichlorobenzene	2.00	1.92		ppb v/v		96	60 - 140
1,2,4-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13		ppb v/v		106	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		98	70 - 130
1,2-Dichloroethane	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dichloropropane	2.00	1.99		ppb v/v		100	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Butadiene	2.00	2.05		ppb v/v		102	60 - 140
1,3-Dichlorobenzene	2.00	1.95		ppb v/v		97	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		97	70 - 130
1,4-Dioxane	2.00	1.97		ppb v/v		99	60 - 140
2,2,4-Trimethylpentane	2.00	2.08		ppb v/v		104	70 - 130
2,3-Dimethylpentane	2.00	2.03		ppb v/v		101	20 - 180
2-Butanone (MEK)	2.00	1.96		ppb v/v		98	60 - 140
2-Hexanone	2.00	2.10		ppb v/v		105	60 - 140
2-Methylbutane	2.00	1.91		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.86		ppb v/v		93	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.02		ppb v/v		101	60 - 140
Acetone	2.00	1.26	J	ppb v/v		63	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.09		ppb v/v		104	70 - 130
Bromodichloromethane	2.00	2.18		ppb v/v		109	70 - 130
Bromoform	2.00	2.07		ppb v/v		103	60 - 140
Bromomethane	2.00	1.92		ppb v/v		96	70 - 130
Carbon disulfide	2.00	2.01		ppb v/v		100	70 - 130
Carbon tetrachloride	2.00	2.13		ppb v/v		106	70 - 130
Chlorobenzene	2.00	2.03		ppb v/v		102	70 - 130
Chloroethane	2.00	1.93		ppb v/v		97	70 - 130
Chloroform	2.00	2.02		ppb v/v		101	70 - 130
Chloromethane	2.00	1.97		ppb v/v		98	60 - 140
cis-1,2-Dichloroethene	2.00	2.08		ppb v/v		104	70 - 130
cis-1,3-Dichloropropene	2.00	1.98		ppb v/v		99	70 - 130
Cyclohexane	2.00	2.07		ppb v/v		103	70 - 130
Dibromochloromethane	2.00	2.20		ppb v/v		110	70 - 130
Dichlorodifluoromethane	2.00	2.05		ppb v/v		103	60 - 140
Ethanol	10.0	9.88		ppb v/v		99	20 - 180
Ethylbenzene	2.00	2.22		ppb v/v		111	70 - 130
Heptane	2.00	2.11		ppb v/v		105	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.71		ppb v/v		85	60 - 140
Hexane	2.00	1.78		ppb v/v		89	70 - 130
Indane	2.00	2.20		ppb v/v		110	20 - 180
Indene	2.00	2.28		ppb v/v		114	20 - 180
Isopropyl alcohol	2.00	1.89		ppb v/v		94	60 - 140
Methyl tert-butyl ether	2.00	2.09		ppb v/v		104	60 - 140
Methylene Chloride	2.00	2.12		ppb v/v		106	70 - 130
m-Xylene & p-Xylene	4.00	4.28		ppb v/v		107	70 - 130
Naphthalene	2.00	1.93		ppb v/v		96	40 - 140
o-Xylene	2.00	2.19		ppb v/v		110	70 - 130
Propene	2.00	1.90		ppb v/v		95	60 - 140
Styrene	2.00	2.29		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.17		ppb v/v		109	70 - 130
Tetrahydrofuran	2.00	2.01		ppb v/v		100	60 - 140
Thiophene	2.00	2.13		ppb v/v		106	20 - 180
Toluene	2.00	2.16		ppb v/v		108	70 - 130
trans-1,2-Dichloroethene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	2.00	2.12		ppb v/v		106	70 - 130
Trichloroethene	2.00	2.14		ppb v/v		107	70 - 130
Trichlorofluoromethane	2.00	2.03		ppb v/v		101	60 - 140
Vinyl chloride	2.00	1.99		ppb v/v		99	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.9		ug/m3		100	70 - 130
1,1,2,2-Tetrachloroethane	14	15.2		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.2		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	11.3		ug/m3		104	70 - 130
1,1-Dichloroethane	8.1	8.07		ug/m3		100	70 - 130
1,1-Dichloroethene	7.9	9.07		ug/m3		114	70 - 130
1,2,4-Trichlorobenzene	15	14.3		ug/m3		96	60 - 140
1,2,4-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,2-Dibromoethane (EDB)	15	16.0		ug/m3		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	14.9		ug/m3		106	60 - 140
1,2-Dichlorobenzene	12	11.8		ug/m3		98	70 - 130
1,2-Dichloroethane	8.1	8.80		ug/m3		109	70 - 130
1,2-Dichloropropane	9.2	9.20		ug/m3		100	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Butadiene	4.4	4.53		ug/m3		102	60 - 140
1,3-Dichlorobenzene	12	11.7		ug/m3		97	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		97	70 - 130
1,4-Dioxane	7.2	7.11		ug/m3		99	60 - 140
2,2,4-Trimethylpentane	9.3	9.72		ug/m3		104	70 - 130
2,3-Dimethylpentane	8.2	8.30		ug/m3		101	20 - 180
2-Butanone (MEK)	5.9	5.79		ug/m3		98	60 - 140
2-Hexanone	8.2	8.62		ug/m3		105	60 - 140
2-Methylbutane	5.9	5.64		ug/m3		96	70 - 130
2-Methylpentane	7.1	6.57		ug/m3		93	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002
Matrix: Air
Analysis Batch: 971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.0		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	8.26		ug/m3		101	60 - 140
Acetone	4.8	2.99	J	ug/m3		63	60 - 140
Benzene	6.4	6.65		ug/m3		104	70 - 130
Benzyl chloride	10	10.8		ug/m3		104	70 - 130
Bromodichloromethane	13	14.6		ug/m3		109	70 - 130
Bromoform	21	21.4		ug/m3		103	60 - 140
Bromomethane	7.8	7.45		ug/m3		96	70 - 130
Carbon disulfide	6.2	6.25		ug/m3		100	70 - 130
Carbon tetrachloride	13	13.4		ug/m3		106	70 - 130
Chlorobenzene	9.2	9.37		ug/m3		102	70 - 130
Chloroethane	5.3	5.10		ug/m3		97	70 - 130
Chloroform	9.8	9.86		ug/m3		101	70 - 130
Chloromethane	4.1	4.06		ug/m3		98	60 - 140
cis-1,2-Dichloroethene	7.9	8.24		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	9.1	9.00		ug/m3		99	70 - 130
Cyclohexane	6.9	7.11		ug/m3		103	70 - 130
Dibromochloromethane	17	18.8		ug/m3		110	70 - 130
Dichlorodifluoromethane	9.9	10.2		ug/m3		103	60 - 140
Ethanol	19	18.6		ug/m3		99	20 - 180
Ethylbenzene	8.7	9.62		ug/m3		111	70 - 130
Heptane	8.2	8.64		ug/m3		105	70 - 130
Hexachlorobutadiene	21	18.2		ug/m3		85	60 - 140
Hexane	7.1	6.27		ug/m3		89	70 - 130
Indane	9.7	10.6		ug/m3		110	20 - 180
Indene	9.5	10.8		ug/m3		114	20 - 180
Isopropyl alcohol	4.9	4.64		ug/m3		94	60 - 140
Methyl tert-butyl ether	7.2	7.52		ug/m3		104	60 - 140
Methylene Chloride	7.0	7.35		ug/m3		106	70 - 130
m-Xylene & p-Xylene	17	18.6		ug/m3		107	70 - 130
Naphthalene	10	10.1		ug/m3		96	40 - 140
o-Xylene	8.7	9.52		ug/m3		110	70 - 130
Propene	3.4	3.27		ug/m3		95	60 - 140
Styrene	8.5	9.76		ug/m3		115	70 - 130
Tetrachloroethene	14	14.7		ug/m3		109	70 - 130
Tetrahydrofuran	5.9	5.93		ug/m3		100	60 - 140
Thiophene	6.9	7.32		ug/m3		106	20 - 180
Toluene	7.5	8.16		ug/m3		108	70 - 130
trans-1,2-Dichloroethene	7.9	7.45		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	9.1	9.64		ug/m3		106	70 - 130
Trichloroethene	11	11.5		ug/m3		107	70 - 130
Trichlorofluoromethane	11	11.4		ug/m3		101	60 - 140
Vinyl chloride	5.1	5.09		ug/m3		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002
Matrix: Air
Analysis Batch: 984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*